

ESC CONGRESS

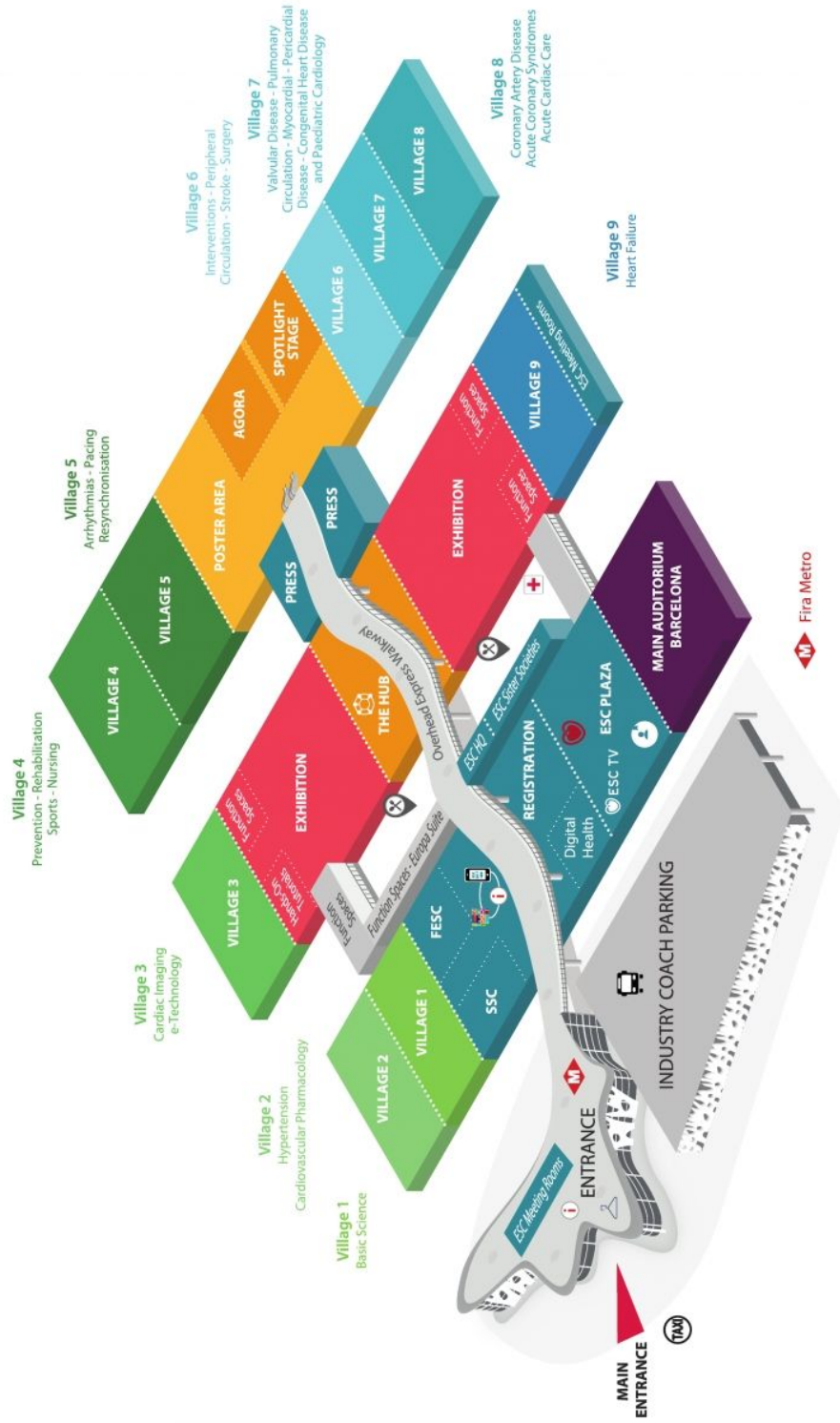
BARCELONA 2017

26 – 30 August



Final Programme

www.escardio.org/ESC2017



- | | | | | | | | | | | | | | | | |
|---------|--------|--------|-----------|----------|-----------|----------|-----------|------------|------------|-----------|-------|-----------|----------|-----------|-----------------|
| THE HUB | DAJI | DUBLIN | VILLAGE 1 | BEIRUT | VILLAGE 4 | CHISINAU | VILLAGE 5 | VILLAGE 6 | BISHKEK | VILLAGE 7 | OSLO | VILLAGE 8 | BUCHARST | VILLAGE 9 | MAIN AUDITORIUM |
| GAUDI | DUBLIN | DUBLIN | DUBLIN | RIGA | CHISINAU | SKOPJE | VILLETTA | LUXEMBOURG | LUXEMBOURG | OSLO | RABAT | BUCHARST | TRIPOLI | LISBON | BARCELONA |
| GOYA | FIRA | FIRA | FIRA | ASTANA | VILNIUS | VALETTA | VALETTA | PODGORICA | PODGORICA | RABAT | RABAT | TRIPOLI | TRIPOLI | WARSAW | BARCELONA |
| MIRO | FIRA | FIRA | FIRA | PRISTINA | VILNIUS | VILNIUS | VILNIUS | OSLO | OSLO | RABAT | RABAT | TRIPOLI | TRIPOLI | WARSAW | BARCELONA |
| PICASSO | FIRA | FIRA | FIRA | BEIRUT | VILNIUS | VILNIUS | VILNIUS | OSLO | OSLO | RABAT | RABAT | TRIPOLI | TRIPOLI | WARSAW | BARCELONA |

- ESC Stand
- SSC Speaker Service Centre
- FESC Lounge
- Medical Care
- ESC Professional Members' Lounge
- Information Point
- Cloakroom
- ESC Mobile App Desk
- ESC Congress 365 Desk



WELCOME TO ESC CONGRESS 2017

GI

We are very happy to see so many dedicated healthcare professionals in Barcelona this year; women and men from more than 140 countries determined to remain at the forefront of cardiovascular science.

ESC Congress, the world's largest cardiovascular meeting will provide you with **new and relevant information** pertinent to your clinical practice and scientific activities. Management recommendations based on the latest evidence will be presented during '**ESC Clinical Practice Guidelines**' sessions, and there will be ample opportunity for face-to-face exchanges with the experts who developed the guidelines to help you better appreciate the implications for your practice.

The highly anticipated 'Hot Lines' will feature **new results of large, late-breaking clinical trials** while 'Advances in Science' and other sessions will feature the best innovative research from close to 11 000 abstracts submitted to ESC Congress.

This year's spotlight is "**40 years of PCI**". Numerous sessions will highlight the impact percutaneous intervention has had on all aspects of cardiovascular care. New this year: "Live in the Box" sessions will feature clinical cases and interventional procedures from leading cardiovascular centres.

This year, you will find exciting new tracks on **Digital Health**, vascular science, and many sessions designed to actively engage with experts to share and discuss best practice recommendations.

You will notice at the Congress that we have new benefits for **ESC Professional Members**, the direct membership scheme we launched last year, including a new Professional Members' Lounge. If you're not yet a member, you can join now at the ESC Stand for the remainder of 2017 and 2018, receiving benefits at this year's Congress including access to the lounge.

ESC TV has an exciting new open format for the audience to follow sessions, discussions and breaking news from the Congress streamed online to a global audience.

Don't forget the exhibition and satellite symposia to learn about new developments from industry partners. Download the '**ESC 2017**' **Mobile App** to access the programme, personalise your congress experience, vote and send questions during interactive sessions.

Finally, we remind you that ESC Congress 365 allows you to access every single presentation given at ESC Congress 2017, free of charge, all year long.

We wish you an exceptional ESC Congress, the place where the world of cardiology comes together.



Jeroen J Bax, FESC
President
European Society of Cardiology
2016 - 2018



Stephan Achenbach, FESC
Chairman
Congress Programme Committee
2016 - 2018

The Scientific Programme has been prepared by the ESC Congress Programme Committee in close collaboration with the ESC Working Groups, Associations, Councils and Ad hoc according to the nine following topic groups.

J Bax FESC (Leiden, NL)
S Achenbach FESC (Erlangen, DE)

Most scientific sessions, except satellite symposia, are arranged by topics in themed villages. You will also find the scientific highlights of the nine main topics of ESC Congress 2017 in The Hub, Spotlight Stage, the Agoras and the Main Auditorium.

VILLAGE 1 – BASIC SCIENCE

J D Pearson FESC (London, UK) - Coordinator
C Basso FESC (Padua, IT)
D Garcia-Dorado FESC (Barcelona, ES)
D Hilfiker-Kleiner FESC (Hannover, DE)
S Ljubojevic (Graz, AT)
C Perrino FESC (Napoli, IT)
D Tousoulis FESC (Athens, GR)
C Weber FESC (Munich, DE)

VILLAGE 2 – HYPERTENSION - CARDIOVASCULAR PHARMACOLOGY

B Williams FESC (London, UK) - Coordinator
D Gaita FESC (Timisoara, RO)
F Mahfoud FESC (Homburg/Saar, DE)
B Pieske FESC (Berlin, DE)
E Shlyakhto FESC (St. Petersburg, RU)

S Agewall FESC (Oslo, NO) - Coordinator
D Atar FESC (Oslo, NO)
C Funck-Brentano FESC (Paris, FR)

VILLAGE 3 – CARDIAC IMAGING - E-TECHNOLOGY

P Nihoyannopoulos FESC (London, UK) - Coordinator
F M Bengel (Hannover, DE)
C Bucciarelli-Ducci FESC (Bristol, UK)
F A Flachskampf FESC (Uppsala, SE)
P A Kaufmann FESC (Zurich, CH)
G Krstacic FESC (Zagreb, HR)
S Plein (Leeds, UK)
R Rubinshtein FESC (Haifa, IL)

VILLAGE 4 – PREVENTION - REHABILITATION - SPORTS - NURSING

E Prescott	FESC (Copenhagen, DK) - Coordinator
T Akasaka	FESC (Wakayama, JP) - Japanese Circulation Society (JCS)
D E Grobbee	FESC (Utrecht, NL)
J Kuvin	(Boston, US) - American College of Cardiology (ACC)
A Nedoshivin	FESC (St. Petersburg, RU)
A Pelliccia	FESC (Rome, IT)
E Peterson	FESC (Durham, US) - American Heart Association (AHA)
K Siebens	FESC (Waarloos, BE)
L Tokgozoglu	FESC (Ankara, TR)

VILLAGE 5 – ARRHYTHMIAS - PACING - RESYNCHRONISATION

J Camm	FESC (London, UK) - Coordinator
F Braunschweig	FESC (Stockholm, SE)
M Glikson	FESC (Ramat Gan, IL)
B Gorenek	FESC (Eskisehir, TR)
G Hindricks	FESC (Leipzig, DE)
GY H Lip	FESC (Birmingham, UK)
J Steffel	FESC (Zurich, CH)
P Volders	FESC (Maastricht, NL)

VILLAGE 6 – INTERVENTIONS - PERIPHERAL CIRCULATION - STROKE - SURGERY

J Mehilli	FESC (Munich, DE) - Coordinator
V Aboyans	FESC (Limoges, FR)
A Baumbach	FESC (Bristol, UK)
D De Padua Brasil	(Belo Horizonte, BR) - Brazilian Society of Cardiology (BSC)
V Falk	FESC (Berlin, DE)
P Garot	FESC (Massy, FR)
P Kala	FESC (Brno, CZ)
P H Kolh	FESC (Liège, BE)
J Qian	FESC (Shanghai, CN) - Chinese Society of Cardiology (CSC)
A Segev	FESC (Tel Hashomer, IL)
C Templin	FESC (Zurich, CH)
P Widimsky	FESC (Prague, CZ)
KK Yeo	(Singapore, SG) - Asian Pacific Society of Cardiology (APSC)

VILLAGE 7 – VALVULAR DISEASE - PULMONARY CIRCULATION - MYOCARDIAL-PERICARDIAL DISEASE - CONGENITAL HEART DISEASE AND PAEDIATRIC CARDIOLOGY

L Pierard	FESC (Liege, BE) - Coordinator
H Baumgartner	FESC (Muenster, DE)
J De Backer	FESC (Ghent, BE)
S Di Filippo	(Lyon, FR)
S Konstantinides	FESC (Mainz, DE)
B D Prendergast	FESC (London, UK)
A Rigopoulos	FESC (Schweinfurt, DE)
K Sliwa-Hahnle	FESC (Cape Town, ZA) - World Heart Federation (WHF)
J Stepinska	FESC (Warsaw, PL)
C M Tavares Aguiar	FESC (Lisbon, PT)
N van Mieghem	FESC (Rotterdam, NL)

VILLAGE 8 – CORONARY ARTERY DISEASE - ACUTE CORONARY SYNDROMES - ACUTE CARDIAC CARE

M Roffi	FESC (Geneva, CH) - Coordinator
T Cuisset	FESC (Marseille, FR)
A Koller	(Budapest, HU)
H Mardikar	FESC (Nagpur, IN)
J Morais	FESC (Leiria, PT)
J M Ten Berg	FESC (Nieuwegein, NL)
M Lettino	FESC (Milan, IT) - Coordinator
P Vranckx	(Hasselt, BE)

VILLAGE 9 – HEART FAILURE (CHRONIC & ACUTE)

F Ruschitzka	FESC (Zurich, CH) - Coordinator
S Anker	FESC (Gottingen, DE)
J Bauersachs	FESC (Hannover, DE)
G Filippatos	FESC (Athens, GR)
A Hagege	FESC (Paris, FR)
E A Jankowska	FESC (Wroclaw, PL)
M Metra	FESC (Brescia, IT)
P Seferovic	FESC (Belgrade, RS)
A Voors	FESC (Groningen, NL)

WITH SPECIAL THANKS TO OUR AD HOC MEMBERS

B Cosyns	(Brussels, BE)
G Habib	FESC (Marseille, FR)
P Vardas	FESC (Heraklion, GR)

ESC CARDIOLOGISTS OF TOMORROW NUCLEUS

E A Jankowska	FESC (Wroclaw, PL)
S Muscoli	(Rome, IT)
M Pazdernik	(Prague, CZ)
J Poess	(Luebeck, DE)
M Rubini Gimenez	(Basel, CH)
S M A Sohaib	(London, UK)
M Wallner	(Graz, AT)

ESC SCIENTISTS OF TOMORROW NUCLEUS

J Fauconnier	(Montpellier, FR)
S Ljubojevic	(Graz, AT)
N Smart	(Oxford, UK)
K Stellos	FESC (Frankfurt, DE)
G Vilahur	FESC (Barcelona, ES)
N Voigt	(Goettingen, DE)

ESC MEDIA COMMITTEE 2016-2018

S D Kristensen	FESC (Aarhus, DK) - Chairperson
D Atar	FESC (Oslo, NO)
L Badimon	FESC (Barcelona, ES)
K Huber	FESC (Vienna, AT)
U Landmesser	FESC (Berlin, DE)
J Perk	EFESC (Oskarshamn, SE)
S Price	FESC (London, UK)
M Sabate Tenas	FESC (Barcelona, ES)
F Schiele	FESC (Besancon, FR)
U Sechtem	FESC (Stuttgart, DE)
J Sørensen	(Aabyhoej, DK)
M Taborsky	FESC (Olomouc, CZ)
M T Tavares Aguiar	FESC (Lisbon, PT)
C Varenhorst	FESC (Uppsala, SE)
F W A Verheugt	FESC (Amsterdam, NL)

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Download the ESC 2017 Mobile App

**Sessions by Day,
Topic, Type
or Track**

**Personalised
programme**



**Latest
messages**

**Vote & interact
during Mobile App
Interactive Sessions**

**Exhibitors' details
& onsite
practical info**

Scientific Resources

Select the presentation of interest and click on:
"View full abstract"
or "Access Slides – Video – Report online"

**"ESC 2017" in
App Store® / Google play**



QR code for
iOS & Android

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Find assistance at the Mobile App Desk located in the Registration Area
and on the SERVIER Stand K300



ESC 2017 Mobile App is supported by SERVIER
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ESC CONGRESS

BARCELONA 2017

**EUROPEAN
SOCIETY
OF CARDIOLOGY
YOUR COMMUNITY**



Where expertise becomes a community

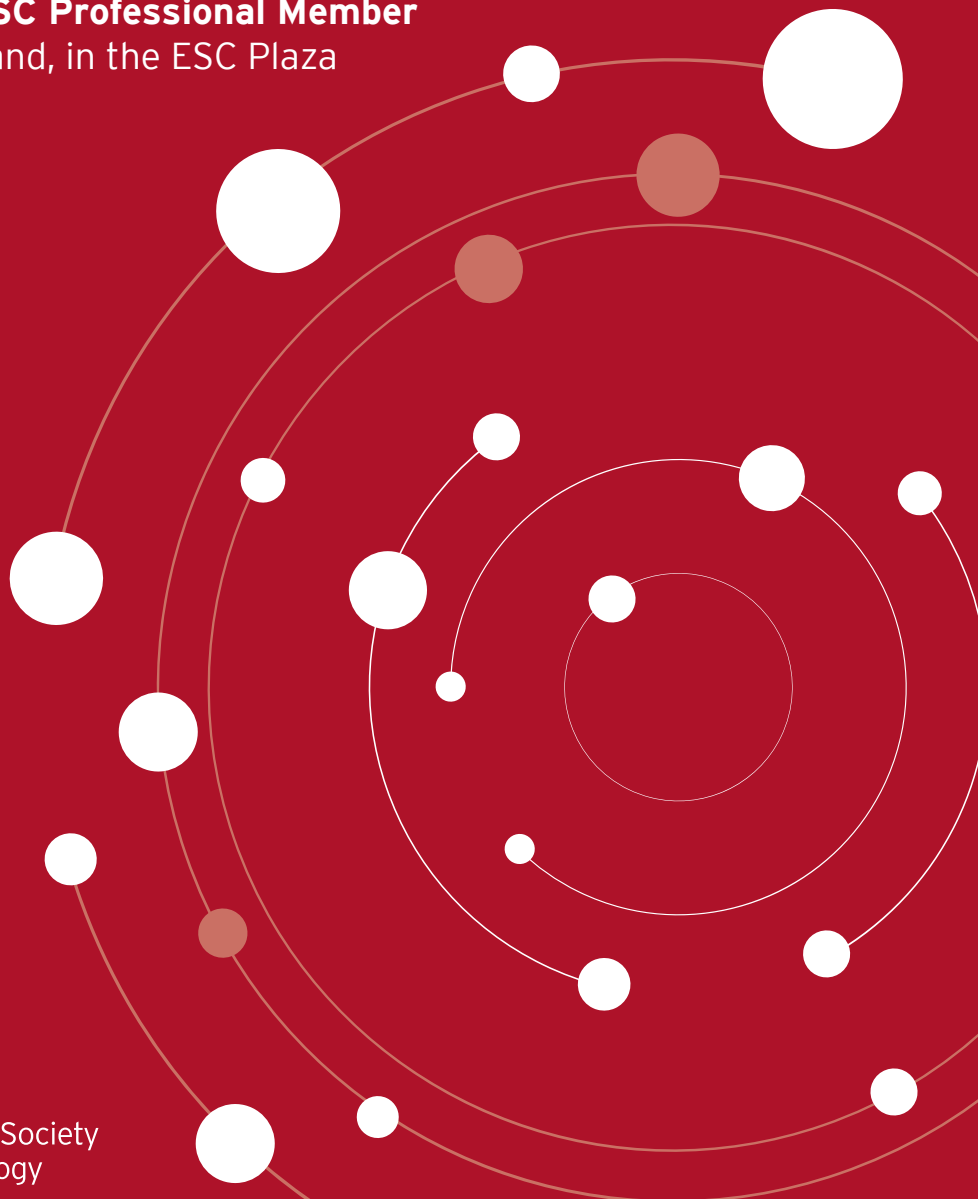
Become an ESC Professional Member

At the ESC Stand, in the ESC Plaza



ESC

European Society
of Cardiology



ABOUT THE EUROPEAN SOCIETY OF CARDIOLOGY

GII

The European Society of Cardiology (ESC) is a not-for-profit medical society led by volunteers. Our mission is to reduce the burden of cardiovascular disease.

Through our global network of 56 Member National Cardiac Societies and 43 Affiliated Cardiac Societies we identify cardiovascular trends, address inequalities and share best practices to improve standards of care for patients.

The ESC has 95 000 members from across the globe, including more than 4 300 distinguished Fellows of the ESC. We cover the full spectrum of cardiology through our 27 subspecialty communities, giving us a unique perspective on all areas of cardiovascular science.

WHAT WE DO

We provide our members and the global cardiology community with the support and tools they need to deliver the best possible care. We do this through five strategic focus areas:

Congresses:

- ESC Congress – the world's largest cardiovascular meeting
- Nine subspecialty congresses
- Joint sessions at more than 30 cardiology events across the globe

Education:

- Online learning through webinars, the ESC eLearning Platform and a Clinical Case Portal
- Face-to-face learning and post graduate diplomas through the European Heart Academy
- Certification
- ESC Training Grants

Research:

- Research - 20 Registries, involving 100 000 patients across 80 countries
- Data collection – ESC Atlas of Cardiology
- Dissemination through EU funded research projects
- ESC Research Grants

Advocacy:

- Fostering partnerships
- Providing scientific expertise and independent data to health stakeholders

Membership:

- Join the world's largest community of healthcare professionals fighting heart disease.
- **NEW:** Pick-up the membership package that's right for you and access a world of new opportunities.

In addition, the ESC publishes 12 scientific journals and a variety of textbooks. It harmonises standards of care through the internationally respected ESC Clinical Practice Guidelines.

CODE OF CONDUCT

The ESC adheres to the Alliance for Biomedical Research in Europe (BioMed Alliance) Code of Conduct to ensure our objectivity, transparency and integrity.

Discover more about the ESC and how it can support you, on the new ESC stand in the ESC Plaza.

The management of the European Society of Cardiology (ESC) is conducted by a board and a management group of the board. The board is comprised of voting members, who are elected by the General Assembly in even numbered years, and non-voting ex officio members who are appointed by the board. The board of the ESC establishes committees to attend to specific tasks.

Elected Members:

Management Group of the Board

JJ Bax, FESC, Netherlands	President
B Casadei, FESC, United Kingdom	President-Elect
FJ Pinto, FESC, Portugal	Past-President Ex-Officio Voting Member
I Graham, FESC, Ireland	Secretary/Treasurer
S Anker, FESC, Germany	Vice-President - National Cardiac Societies and Communication
L Badimon, FESC, Spain	Vice-President - Working Groups, Councils, Women in ESC and ESC Grants
B Merkely, FESC, Hungary	Vice-President - National Cardiac Societies, Editors Network and Youth
N Clarke, United Kingdom	Advisor
G Olsson, FESC, Sweden	Advisor

Councillors

H Bueno, FESC, Spain	Advocacy
S Clarke, FESC, United Kingdom	eCommunications
D Fitzsimons, FESC, United Kingdom	Grants
C Leclercq, FESC, France	Global Affairs
C Linde, FESC, Sweden	Women in the ESC
F Weidinger, FESC, Austria	Young ESC Community

Ex-Officio Voting Members

M Lettino, FESC, Italy	Acute Cardiovascular Care Association
B Popescu, FESC, Romania	European Association of Cardiovascular Imaging
M Haude, FESC, Germany	European Association of Percutaneous Cardiovascular Interventions
D Grobbee, FESC, Netherlands	European Association of Preventive Cardiology
G Hindricks, FESC, Germany	European Heart Rhythm Association
F Ruschitzka, FESC, Switzerland	Heart Failure Association of the ESC

Non-voting Members:

S Achenbach, FESC, Germany	ESC Congress Programme Committee
F Cosentino, FESC, Sweden	Industry Relations Committee
G Filippatos, FESC, Greece	Credentials Committee and Membership
P Kearney, FESC, Ireland	Advocacy Committee
P Kirchhof, FESC, United Kingdom	Education Committee
S D Kristensen, FESC, Denmark	Media Committee
T Lüscher, FESC, Switzerland	Publications Committee
A Vahanian, FESC, France	EURObservational Research Programme
S Windecker, FESC, Switzerland	Committee for Practice Guidelines
J Zamorano, FESC, Spain	Global Affairs Committee
I Bardinat, France	ESC Chief Executive Officer
N Lefebvre, France	ESC Chief Financial Officer
M Ximeris, France	ESC Board Secretary

ESC GENERAL ASSEMBLIES

GI3

Tuesday 29 August 2017

10:00 - 11:00

Room Dublin (Village I)

Open to all ESC Members*

AGENDA

Extraordinary General Assembly

Welcome address

J Bax, ESC President 2016 - 2018

Resolutions and results of the vote concerning
the proposed Statute Amendments

J Bax, ESC President 2016 - 2018

Ordinary General Assembly

Welcome address

J Bax, ESC President 2016 - 2018

Financial and annual report

I Graham, ESC Secretary/Treasurer 2016 - 2018

Report from the Vice Presidents

- National Cardiac Societies and Communication

S Anker, Vice President 2016 - 2018

- National Cardiac Societies and the Young

B Merkely, Vice President 2016 - 2018

- Working Groups, Councils, Women in ESC and Grants

L Badimon, Vice President 2016 - 2018

Report from the Audit Committee

L Respini, ESC Audit Committee Chair

Resolutions and result of votes for the
Ordinary General Assembly

J Bax, ESC President 2016 - 2018

* All members of the ESC National Cardiac Societies, ESC Associations, ESC Working Groups and ESC Councils.

CARDIAC IMAGING
Lisbon, Portugal
6-9 December 2017



CARDIAC IMAGING
Barcelona, Spain
31 January - 3 February 2018



ACUTE CARDIAC CARE
Milan, Italy
3-5 March 2018



HEART RHYTHM
Barcelona, Spain
18-20 March 2018



ALL TOPICS
Munich, Germany
25-29 August 2018



ESC future events

Covering the full
spectrum of cardiology

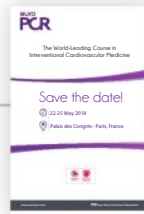
PREVENTION
Ljubljana, Slovenia
19-21 April 2018



BASIC SCIENCE
Vienna, Austria
20-22 April 2018



INTERVENTION
Paris, France
22-25 May 2018



HEART FAILURE
Vienna, Austria
26-29 May 2018



NURSING
Vienna, Austria
7-9 June 2018



 **ESC**
European Society
of Cardiology

The ESC's educational resources in general cardiology and subspecialties support your continuing medical training. You will find interactive, evidence-based programmes you can attend in person or watch online from some of the leading experts in cardiology.

Everything you need to stay current in this ever-changing field.

— The ESC offers a wide range of products to improve cardiovascular outcomes:

→ Online Learning:

- Webinar Series
- E-learning Programmes
- Clinical Case Gallery
- Guidelines into Practice Tracks

→ Career Development:

- Certification Programmes & Exams
- Training Grants & Fellowships
- Live Courses

→ Postgraduate Programmes by the European Heart Academy :

- Master in Health Economics, Outcomes and Management in Cardiovascular Science – in collaboration with London School of Economics (LSE)
- Certificate of Advanced Studies in Heart Failure – in collaboration with Heart Failure Association (HFA), Zurich University and Zurich Heart House (ZHH)
- Diploma of Advanced Studies in Cardiac Arrhythmia Management – in collaboration with European Heart Rhythm Association (EHRA) and Maastricht University

**New this year! Come & visit us in the Education area on the ESC Stand (ESC Plaza)
Don't miss the Free Live DEMOS everyday at 10:00, 13:00 and 15:30**

— Sessions not to be missed during ESC Congress:

Monday 28 August

	page
10:10 - 10:50 ESC eLearning platform - Outcomes and lessons learned	Agora 1 (Agora) 211
14:00 - 15:30 Key messages from the most popular ESC webinars	Goya (The Hub) 257
16:30 - 18:00 Test your clinical knowledge with the European Exam in General Cardiology	Goya (The Hub) 273

Tuesday 29 August

08:30 - 10:00 New ESC Clinical Practice Guidelines 2016/2017 - Clinical cases put into perspective	Goya (The Hub) 314
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EUROOBSERVATIONAL RESEARCH PROGRAMME (EORP)

The EORP is a programme of registries that provides a better understanding of current medical practice, based on the collection of observational, real life data. The EORP portfolio covers common cardiovascular pathologies; rare/orphan diseases; intervention and prevention. One of its primary objectives is to evaluate how effectively ESC Clinical Practice Guidelines are being implemented.

The EORP collects data using a web-based CRF and thanks to an extended network of volunteer centres/investigators in Europe and around the world, with the collaboration of the ESC National and Affiliated Cardiac Societies.

In 2016, over 20 articles were published across a variety of cardiology topics using the robust statistical analysis from the data of these studies. All EORP publications to date can be consulted at www.escardio.org/eorp

At ESC Congress:

Sunday 27 August

	page
10:05 - 10:55 Late Breaking ESC Registry Results	Valetta (Village 5) 89
16:30 - 18:00 Valuable lessons on frequent diseases - Insights from ESC registries	Goya (The Hub) 156

Big Picture sessions

These sessions will include the country-specific analyses of data collected during the ESC-EORP registries on Heart Failure, Cardiomyopathy, Atrial Fibrillation, Chronic Ischaemic CVD and Peripartum Cardiomyopathy, in collaboration with the ESC-EORP and the National Cardiac Society Members. See more on page G63.

Visit the research area on the ESC stand for more information and to find out how your centre can take part in the ESC EORP.

ESC ATLAS OF CARDIOLOGY

The ESC Atlas of Cardiology is a unique collection of qualitative and quantitative data from more than 40 different healthcare realities.

Topics covered include: socio-demographics, economic indicators, risk factors, CVD morbidity and mortality, human and capital resources in cardiology, services and interventions provided to cardiac patients, details on the national healthcare systems and health policies. Atlas aims to map the status of European healthcare systems from a cardiology perspective, identify gaps and inequalities, and provide evidence that may improve decision-making in cardiology.

At ESC Congress:

Saturday 26 August

	page
12:40 - 13:20 ESC Cardiovascular Statistics 2017 - The Atlas Project	Picasso (The Hub) 38

Get exclusive access to Atlas on the ESC stand.

EUROPEAN FUNDED PROJECTS

The ESC is involved in a number of EU funded research projects, often as a dissemination partner. This role is fundamental to ensuring the very latest scientific best practice is shared with as many cardiovascular practitioners, researchers and institutions as possible. Current projects include CATCH ME and Big Data@Heart.

At ESC Congress:

- **CATCH ME***: Characterising **A**trial Fibrillation by **T**ranslating its **C**auses into **H**ealth **M**odifiers in the **E**lderly aims to improve the care of patients with Atrial Fibrillation.
 - Discover the two new mobile apps – one for patients and one for healthcare professionals on the ESC stand.
 - **Monday 28 August**
14:00 - 15:30 **CATCH-ME - Management of patients with atrial fibrillation** Beirut (Village 3) 261
- **Big Data@Heart**** aims to improve patient outcomes and reduce the societal burden of heart failure, atrial fibrillation and acute coronary syndrome in Europe by using big data approaches with existing European data sets. Find out more on the ESC stand.
- **Interested in EU funding for your research project?** **page**
 - **Monday 28 August**
16:30 - 18:00 **Horizon 2020 and beyond – EU funding opportunities for cardiovascular research** Miro (The Hub) 273

*CATCH ME is a Horizon 2020 funded project

** Big Data@Heart is an Innovative Medicines Initiatives (IMI) funded project

ESC RESEARCH GRANTS

The ESC supports excellence in research through our dedicated grants and fellowship programme.

Find out more on the ESC stand on the Research desk or visit www.escardio.org/research-grants.

ESC Textbook of Cardiovascular Medicine is evolving...



Visit us on the ESC Stand

www.escardio.org



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European Society
of Cardiology

Supporting the dissemination of knowledge on treatment of cardiovascular diseases is a major responsibility of the European Society of Cardiology.

In order to improve clinical practice, the Committee for Practice Guidelines (CPG) brings together groups of European experts with the task of developing recommendations and guidelines for clinical practice.

The ESC Clinical Practice Guidelines present management and recommendations based on all relevant evidence on a particular subject to help physicians select the best possible management strategies for the individual patient suffering from a specific condition, taking into account not only the impact on outcome, but also the risk benefit ratio of a particular diagnostic or therapeutic procedure.

Come and visit us on the ESC Stand in ESC Plaza

ESC Pocket Guidelines Application for all users worldwide

Access the whole range of ESC Pocket Guidelines directly on your mobile device and experience the interactive tools (algorithms, calculators, charts, scores...).

Search for “**ESC Pocket Guidelines**” in App Store® / Google Play / Amazon

Collection of the 2017 Pocket Guidelines

Free printed set of the 2017 Pocket Guidelines (while stocks last) available at these points:

Fellows of the ESC: from Saturday 26 August, 08:00, in the FESC Lounge

ESC Professional Members: from Saturday 26 August, 08:00, in the ESC Professional Members' Lounge

Members of ESC National Cardiac Societies, Associations, Working Groups and Councils: from Sunday 27 August, 08:00, in the Registration Area

For all other delegates: 2017 Pocket Guidelines will be available to purchase at ESC Shop on ESC Plaza from Sunday 27 August, 09:00

The ESC Clinical Practice Guidelines sessions in room Barcelona (Main Auditorium):

The Guidelines Overview, the dedicated sessions, the condensed session and the Meet the Task Force on the new 2017 Guidelines (More on page G72):

- AMI-STEMI
- Focused update on DAPT
- Valvular Heart Disease
- Peripheral Arterial Diseases

More on ESC Guidelines:

Join the experts in all specialty to confront the guidelines and actual clinical cases with the Guidelines in Daily Practice sessions, My NCS@ESC sessions, ESC Cardiology Quiz, Saturday Mini Quiz in other Villages. (More on page G73)

For more information, visit: www.escardio.org/guidelines

The ESC Journal Family is evolving...

Visit us on the ESC Stand

www.escardio.org/JournalFamily



ESC

European Society
of Cardiology

POLICY, REGULATIONS AND PARTNERSHIPS

The ESC is engaged in a constant dialogue with stakeholders who can help shape an environment favourable to cardiovascular health in Europe, including EU and national policymakers, European advocacy groups, and other professional medical associations. We do this through:

- Providing data and expert opinion to European Union policymakers, the World Health Organisation and national governments
- Exchanging information and good practice in advocacy between National Cardiac Societies
- Creating partnerships with related medical societies and health organisations
- Participating in European and global campaigns, initiatives and EU projects

Don't miss unique joint sessions at ESC Congress:

Monday 28 August

page

11:00 - 12:30 **Approval processes for medical devices -
Understanding clinical and regulatory perspectives -
Spotlight on coronary stents** Luxembourg (Village 6) 220

Tuesday 29 August

14:00 - 15:30 **Raising standards in cardiovascular care and planning** Dali (The Hub) 368

WOMEN IN ESC

Cardiology has seen a huge increase in the number of women in training. To better support them, the ESC has launched the Women in ESC Initiative to ensure that women coming into the field are prepared for successful careers, and that the ESC is an effective advocate for them.

At ESC Congress:

Networking event - join us in the ESC Professional Members' Lounge

Women in ESC - open meeting including winners of the ESC Grants for Women in Leadership course and results from the C-Change Survey.

Monday 28 August

07:30 - 08:15 **Women in intervention** Miro (The Hub) 196

No other cardiology society unites so many nations. The different experiences of our 56 Member National Cardiac Societies, when brought together through the ESC, enrich our understanding of cardiovascular disease and how to fight it.

ESC NATIONAL CARDIAC SOCIETY	President	Members	Stand N°
Albanian Society of Cardiology	M Lezha, FESC	218	EZ207
Algerian Society of Cardiology	N Hammoudi, FESC	399	EZ404
Armenian Cardiologists Association	P Zelveian, FESC	261	EZ410
Association of Cardiologists of Bosnia and Herzegovina	Z Kušljugi, FESC	224	EZ408
Association of Cardiologists of Kazakhstan	S Berkinbayev, FESC	740	EZ208
Austrian Society of Cardiology	F Roithinger, FESC	805	EZ306
Azerbaijan Society of Cardiology	F Vycheslav	436	EZ407
Belgian Society of Cardiology	M Claeys, FESC	551	EZ104
Belorussian Scientific Society of Cardiologists	A Mrochek, FESC	81	EZ411
British Cardiovascular Society	S Clarke, FESC	5188	EZ106
Bulgarian Society of Cardiology	A Postadzhiyan, FESC	614	EZ204
Cardiology Society of Serbia	B Beleslin, FESC	974	EZ414
Croatian Cardiac Society	D Milicic, FESC	543	EZ309
Cyprus Society of Cardiology	G Georgiou, FESC	156	EZ211
Czech Society of Cardiology	M Táborský, FESC	2336	EZ403
Danish Society of Cardiology	L Holmvang, FESC	1626	EZ311
Egyptian Society of Cardiology	S Shaheen, FESC	2252	EZ402
Estonian Society of Cardiology	P Laanmets, FESC	245	EZ311
Finnish Cardiac Society	A Hedman, FESC	820	EZ311
French Society of Cardiology	J Le Heuzey, FESC	6430	EZ102
Georgian Society of Cardiology	A Aladashvili, FESC	148	EZ412
German Cardiac Society	H Katus, FESC	9728	EZ201
Hellenic Society of Cardiology	K Tsioufis, FESC	2350	EZ301
Hungarian Society of Cardiology	K Toth, FESC	4002	EZ305
Icelandic Society of Cardiology	T Gudnason, FESC	88	EZ311
Irish Cardiac Society	A Mc Neill, FESC	318	EZ107
Israel Heart Society	R Kornowski, FESC	740	EZ202
Italian Federation of Cardiology	F Fedele, FESC	7163	EZ108
Kosovo Society of Cardiology	G Bajraktari, FESC	80	EZ209
Kyrgyz Society of Cardiology	E Mirrakhimov, FESC	137	EZ206
Latvian Society of Cardiology	A Erglis, FESC	355	EZ311
Lebanese Society of Cardiology	S Dada, FESC	383	EZ415
Libyan Cardiac Society	K Ellafi, FESC	182	EZ413
Lithuanian Society of Cardiology	R Šlapikas, FESC	291	EZ311
Luxembourg Society of Cardiology	J Beissel, FESC	87	EZ105
Macedonian FYR Society of Cardiology	S Kedev, FESC	229	EZ409
Maltese Cardiac Society	R Xuereb, FESC	87	EZ210
Moldavian Society of Cardiology	M Popovici	68	-
Montenegro Society of Cardiology	A Bošković, FESC	43	EZ205
Moroccan Society of Cardiology	S Ztot, FESC	663	EZ405
Netherlands Society of Cardiology	H Bosker	1751	EZ401
Norwegian Society of Cardiology	T Steigen, FESC	607	EZ311
Polish Cardiac Society	P Hoffman, FESC	4810	EZ203
Portuguese Society of Cardiology	J Morais, FESC	1263	EZ303
Romanian Society of Cardiology	G Tatu-Chitoiu, FESC	1517	EZ110
Russian Society of Cardiology	E Shlyakhto, FESC	5513	EZ302
San Marino Society of Cardiology	M Foscoli, FESC	71	EZ109
Slovak Society of Cardiology	R Hatala, FESC	398	EZ308
Slovenian Society of Cardiology	Z Fras, FESC	146	EZ307
Spanish Society of Cardiology	A Iñiguez Romo, FESC	4385	EZ101
Swedish Society of Cardiology	M Börjesson, FESC	1270	EZ311
Swiss Society of Cardiology	M Zellweger, FESC	828	EZ103
Syrian Cardiovascular Association	H Eldin Alshibly	484	-
Tunisian Society of Cardiology and Cardio-Vascular Surgery	F Addad, FESC	467	EZ406
Turkish Society of Cardiology	M Sahin, FESC	2932	EZ304
Ukrainian Association of Cardiology	V Kovalenko, FESC	176	EZ310

The ESC has European roots, but our network is global.

Through our 43 Affiliated Cardiac Societies, we are proud to learn from and share with cardiovascular experts from across the world. Our common goal: to enhance our knowledge and understanding of cardiovascular medicine and support our members by sharing the latest science from Europe and the rest of the world. Together we do this through:

- Joint sessions at international and national cardiovascular meetings
- Development of educational programmes
- Close collaboration between society leaders to build common objectives and ways to achieve these

Our Global Partners at ESC Congress

- Don't miss joint sessions at ESC Congress with ESC Affiliated Cardiac Societies and Global Partners – more details on pages G77-G78
- Find out what the ESC is doing in your country at the Global Affairs meeting point on the ESC Plaza (stand EZ406)
 - ESC at your National Cardiology Society's meeting
 - ESC courses and training
 - Other initiatives organised with the ESC in collaboration with global partners.

ESC Affiliated Cardiac Societies

Argentine Society of Cardiology	Jordan Cardiac Society
Cardiac Society of Australia & New Zealand	Korean Society of Cardiology
Bangladesh Cardiac Society	National Heart Association of Malaysia
Brazilian Society of Cardiology	Nigerian Cardiac Society
Canadian Cardiovascular Society	Macau Cardiology Association
Cardiological Society of India	Mexican Society of Cardiology
Cardiovascular Society of Mauritius	Mongolian Society of Cardiology
Caribbean Cardiac Society	Oman Heart Association
Chilean Society of Cardiology and Cardiovascular Surgery	Pakistan Cardiac Society
Chinese Society of Cardiology and Chinese College of Cardiovascular Physicians	Panamanian Society of Cardiology
Colombian Society of Cardiology and Cardiovascular Surgery	Paraguayan Society of Cardiology
Costa Rican Association of Cardiology	Peruvian Society of Cardiology
Cuban Society of Cardiology	Philippine Heart Association
Ecuadorian Society of Cardiology	Saudi Heart Association
Guatemalan Association of Cardiology	Singapore Cardiac Society
Gulf Heart Association	South African Heart Association
Hong Kong College of Cardiology	Sudan Heart Society
Indonesian Heart Association	Taiwan Society of Cardiology
Iranian Heart Association	Heart Association of Thailand
Iraqi Cardiothoracic Society	Uruguayan Society of Cardiology
Japanese Circulation Society	Venezuelan Society of Cardiology
	Vietnam National Heart Association

OUR DIVERSITY IS OUR STRENGTH



Fellows of the European Society of Cardiology A Symbol of Excellence

Be recognised for your outstanding achievements in cardiology. Apply to join the international community of cardiology experts by becoming a Fellow of the ESC (FESC).

FESC Privileges

Central role within the ESC • Free ESC Congress registration • Access to the FESC Lounge at ESC Congress • Free subscription to *European Heart Journal* or *Cardiovascular Research* • Unique networking opportunities • And more...

Apply online before 30 September

All applications will be reviewed by the ESC Credentials Committee

Find out more on the ESC stand or email fellowship@escardio.org

www.escardio.org/fellowship

Newly Elected Fellows of the ESC 2017

At ESC Congress 2017, the ESC is proud to welcome 339 cardiovascular experts from 55 countries to the FESC community.

Fellow of the ESC (FESC) is a title awarded to those who have demonstrated a significant contribution to cardiology. It is recognised within the international cardiovascular community as a symbol of excellence.

Information for newly elected Fellows (2017)

Congratulations and welcome to the ESC Fellowship community. During ESC Congress you can:

- Meet your peers and the ESC leadership for at a cocktail reception in the FESC Lounge on Saturday 26 August at 15:30.
- Meet your peers during the Inaugural session at 17:00 on Saturday 26 August, where you will be formally welcomed as a Fellow of the ESC
- Collect your Fellowship Diploma in the FESC Lounge on Saturday 26 August 2017

NEWLY ELECTED FELLOWS OF THE ESC

Algeria

Hammoudi Naima

Australia

Arnolda Leonard
Atherton John James
Cullen Louise
Hafeez Shahid
Leung Melissa
Mahadavan Gnanadevan
Rajendran Sharmalar
Teo Karen

Austria

Lambert Thomas
Mascherbauer Julia

Bangladesh

Haque A F M Shamsul Haque
Mohibullah AKM

Belgium

Bondue Antoine
Cosyns Bernard
Droogmans Steven
Elegeert Ivan
Verhamme Peter

Brazil

Amodeo Celso
Aziz Jose
Bernardi Andre
Bettini Luiz
Boghossian Silvia Helena
Bredt Gerson
Camanho Luiz Eduardo
Campos de Albuquerque Denilson
Catharina Claudio
Cattani Alvaro
D'Aurea Mora Raul
Dias Rangel Fernando Oswaldo

Dutra Maximiliano
Esporcatte Roberto
Fagundes Junior Antonio Aurelio
Freitas Jr Aguinaldo
Gonçalves da Silva Junior Delcio
Kalil Filho Roberto
Lima Max Wagmer
Lueneberg Maria Emilia
Malachias Marcus Vinicius Bolivar
Martins Wolney
Molina Marcos
Mourilhe Rocha Ricardo
Nasi Luiz Antonio
Oliveira Edna Maria
Polanczyk Carisi Anne
Santos Simone
Silva Rose
Tavares Filho Sergio
Villacorta Humberto
Wainstein Marco
Xavier de Brito Adriana
Zimerman Leandro

Brunei Darussalam

Oommen Moncy

Bulgaria

Velchev Vasil

Canada

Dwivedi Girish
King-Shier Kathryn
Parker John David
Rabkin Simon

China People's Republic of

Chen Buxing
Chen Keping
Chen Ming Long
Dong Wei

Fang Fang
Fang Ligang
Guo Ning
Hong Tao
Li Jianping
Li Liwen
Li Yi
Liu Chuanfen
Liu Wei
Luo Yukun
Shen Ling-hong
Tian Feng
Tian Zhuang
Wang Gui Song
Wang Yan
Wen Shaojun
Xiang Meixiang
Xie Hongzhi
Xie Liangdi
Xu Wei
Yu Danqing
Yuan Hong
Yuming Li
Zhao Xianxian

Colombia

Melgarejo Enrique

Croatia

Delic-Brkljacic Diana
Manola Sime
Pavlovic Nikola

Czech Republic

Fedorco Marian
Pazdernik Michal
Plasek Jiri
Skala Tomas
Spacek Miloslav

Denmark

Carlsen Joern
Jensen Svend Eggert
Lofgren Bo
Prescott Eva

Ecuador

Aguirre Fernando

Egypt

Fahmy Zeinab Abdel Salam
Romieh Soha
Sabbah Mahmoud Mohamed
Hassan

Finland

Jokinen Eero
Kiviniemi Tuomas
Laukkanen Jari Antero
Saraste Antti
Ukkonen Heikki

France

Hyafil Fabien
Mirabel Mariana
Richard Vincent

Germany

Akin Ibrahim
Arnold Martin Bernhard
Blankenberg Stefan
Dechend Ralf
Estner Heidi
Franck Harald
Froehlich Georg Marcus
Hammerstingl Christoph
Heinzel Frank R
Klingenheben Thomas
Koektuerk Buelent
Kraemer Bjoern
Lange Mathias
Meder Benjamin
Miljak Tomislav
Nickenig Georg
Regitz-Zagrosek Vera
Schirmer Stephan Henrik
Stellos Konstantinos
Thiele Holger
Turan R Goekmen

Greece

Kamperidis Vasileios
Lionis Christos
Maragiannis Dimitrios

**Hong Kong SAR People's
Republic of China**

Tse Gary

India

Adikeshava Naidu
Anand Ahuja
Banerjee Suvro
Bharadwaj Rajeev
Budanur Chikkaswamy Srinivas
Cherukupalli Raghu
Debabrata Roy
Ezhumalai Babu
Gupta Mohit
Gupta Rajeev
Joshi Amit
Kajal Ganguly
Krishnan Suresh
Kumar Suresh
Malik Amit
MP Girish
Mukhopadhyay Soura
Poptani Vishal
Ramachandran Padmakumar
Ramlingam Rangaraj
Rastogi Puneet
Roy Sanjeeb
Saha Jayanta
Shah Hetan
Sharma Arvind Kumar
Sharma Kamal K
Sharma Sanjeev
Shetty Ranjan
Singh Rakesh Kumar
Singhal Alok
Sinha Ashish
Solanki Dharmesh
Thomas Vinod
Tripathi Sushil
Umeshwar Pandey
Vijay Pathak
Vineet Jain

Indonesia

Handari Saskia

Iraq

Al-Quraishi Muthanna

Ireland

Rice Ciara
Roy Andrew K

Israel

Eisen Alon
Korenfeld Roman

Italy

Alvaro Rosaria
Ammirati Enrico
D'Ascenzi Flavio
De Ferrari Gaetano Maria
De Vecchis Renato
Di Bella Gianluca
Di Serafino Luigi
Fedele Francesco
Galzerano Domenico
Gargani Luna
Guasti Luigina
Iacovoni Attilio
Parato Vito Maurizio
Pergola Valeria
Tanaka Akihito
Vellone Ercole
Zito Concetta

Japan

Daimon Masao
Doi Masayuki
Hasebe Naoyuki
Hikoso Shungo
Ishii Hideki
Ishii Junichi
Kato Takao
Kato Yoichi
Kawai Kazuya
Kawamoto Hiroyoshi
Kureishi Bando Yasuko
Kusano Kengo
Maekawa Yuichiro
Maemura Koji
Noguchi Teruo
Onoue Kenji
Saito Naritatu
Sakuragi Satoru
Sato Akira
Shiraishi Isao
Stugaard Marie
Suzuki Hiroshi
Takahashi Jun
Takeishi Yasuchika
Takimoto Elki
Talib Ahmed
Tomaru Takanobu
Watanabe Tetsu
Yamaguchi Osamu
Yamauchi-Takahara Keiko
Yano Toshiyuki
Yasuda Satoshi

Korea Republic of

Chang Sung-A
 Cho Min-Jung
 Cho Myeong-Chan
 Choi Donghoon
 Han Seongwook
 Im Sung Il
 Jung Hae Ok
 Kang Seok Min
 Kim Jung-Sun
 Lee Joo Myung
 Lee Ki Hong
 Oh Seil

Kosovo Republic of

Ibrahimi Pranvera

Mexico

Alexanderson Rosas Erick
 Becerra Juan Carlos
 Gomez Monterrosas Omar
 Jerjes-Sanchez Diaz Carlos

Montenegro

Boskovic Aneta

Nepal

Dubey Laxman

Netherlands

Braam Richard
 Delewi Ronak
 Kardys Isabella
 Schaap Jeroen
 Schuuring Mark
 Van Der Bijl Pieter

New Zealand

Webster Mark

Nigeria

Akinwusi Olayinka Patience
 Katibi Ibraheem

Norway

Andersen Geir Oystein
 Dalen Havard
 Estensen Mette-Elise
 Juliebo Vibeke
 Schirmer Henrik
 Vikenes Kjell

Pakistan

Faheem Muhammad
 Faheem Khan
 Rana Omar Aziz
 Tariq Farman Muhammad

Poland

Burchardt Pawel
 Lesiak Maciej
 Plonska-Gosciniak Edyta
 Rechcinski Tomasz
 Siudak Zbigniew
 Szymanski Piotr
 Uchmanowicz Izabella

Portugal

Nobre Angelo
 Poveda Javier Gallego

Romania

Covic Adrian Constantin
 Gheorghe Gabriela-Silvia
 Serban Maria-Corina

Saudi Arabia

Higazi Sami

Singapore

Kong William KF
 Tan Wei Chieh Jack

South Africa

Nethononda Mashudu Richard

Spain

Bisbal van Bylen Felipe
 Cosin Sales Juan
 Ripoll Vera Tomas

Sudan

Subahi Saad Abdelrahim

Sweden

Ahlsson Anders
 Freyschuss Anna
 Jernberg Tomas

Switzerland

Barton Matthias
 Binder Ronald K
 Fuchs Tobias Andreas
 Heidecker Bettina
 Pazhenkottil Aju Paul
 Rudiger Alain
 Sudano Isabella
 Traupe Tobias

Tanzania United Republic of

Tibazarwa K

Thailand

Suwannasom Pannipa

Trinidad & Tobago

Secheran Naveen

Turkey

Ozcan Kazim Serhan

Uganda

Mondo Charles Kiiza

United Kingdom

Antoniades Charalambos
 Avkiran Metin
 Banerjee Amitava
 Cappuccio Francesco
 Chowdhury Rajiv
 Farooq Vasim
 Gorog Diana
 Huang Christopher
 Iqbal Javid
 Karagiannis Georgios
 Keenan Jan
 Mathew Thomas
 McCormack Terry
 Mohiddin Saidi
 Oldroyd Keith George
 Papadakis Michail
 Patel Riyaz
 Ramzy Ihab
 Saravanan Palaniappan
 Shah Benoy
 Sharma Rajan
 Stuart Alan Graham

United States of America

Bairey Merz C Noel
 Catanzaro John Nicholas
 Chirinos Medina Julio Alonso
 Collier Patrick
 Collins Sean
 Deedwania Prakash
 Eisen Howard
 Goldhaber Samuel Z
 Johnson Nils
 Mather Paul
 Mcguire Darren
 Phelan Dermot
 Rao Hygriv B
 Toth Peter
 Tricoci Pierluigi
 Turner Rick

ESC Professional Members benefit from the best knowledge and science produced by cardiovascular experts, a new experience at ESC Congress, and belong to a unique international community of healthcare professionals dedicated to fighting heart disease.

Be part of a society that advocates effectively for the profession and offers you everything you need to expand your knowledge, develop your research projects and better treat your patients.

Activities at ESC Congress

The ESC Professional Members' Lounge, located in the ESC Plaza, is an exclusive area where ESC Professional and Professional Plus Members can:

- Attend informal networking events with international experts – programme available in the ESC Professional Members' Lounge, Congress Mobile App and Congress News
- Collect the latest ESC Pocket Guidelines from Saturday morning
- Access Business Centre facilities
- Meet with peers and colleagues
- Have a break and get some refreshments
- Renew your membership for 2018

ESC Professional Members also enjoy reward 25% discounts on the ESC shop (more information available at the lounge).

BECOME AN ESC PROFESSIONAL MEMBER

If you're not yet an ESC Professional Member, join today and start enjoying your ESC Professional Membership benefits now:

- Discount on standard ESC Congress 2018 registration and on-site benefits
- Free access to the online offer based on the ESC Textbook of Cardiovascular Medicine, 3rd Edition
- Free online access to the *European Heart Journal* or *Cardiovascular Research*
- Free online access to the live and recorded ESC webinars
- Free online access to the General Cardiology Programme for Continuing Professional Development on the ESCeL platform

**Come to the ESC Stand, in ESC Plaza, and become a 2018 ESC Professional Member.
Get the remainder of 2017 and start enjoying your benefits including exclusive access to the new
ESC Professional Members' Lounge.**

ESC MEMBERSHIP PACKAGES

The ESC is a unique professional medical society that covers the full spectrum of cardiology. The ESC and its subspecialty communities bring together healthcare professionals with different expertise from around the world.

YOUR INTERESTS. YOUR COMMUNITIES. YOUR MEMBERSHIPS.

Pick up the package that's right for you and access a world of new opportunities.

- Choose two or more memberships
- Create your own package
- For significant discounts



All cardiology: ESC Professional Membership



Acute Cardiovascular Care: ACCA Silver Membership



Cardiovascular Imaging: EACVI Silver Membership



Preventive Cardiology: EAPC Silver Membership



Heart Rhythm: EHRA Silver Membership



Heart Failure: HFA Silver Membership

Come to the ESC Stand in ESC Plaza and choose your membership package.

ESC YOUNG COMMUNITIES

The ESC Young community is composed of 10 groups representing general cardiology and sub-specialties.

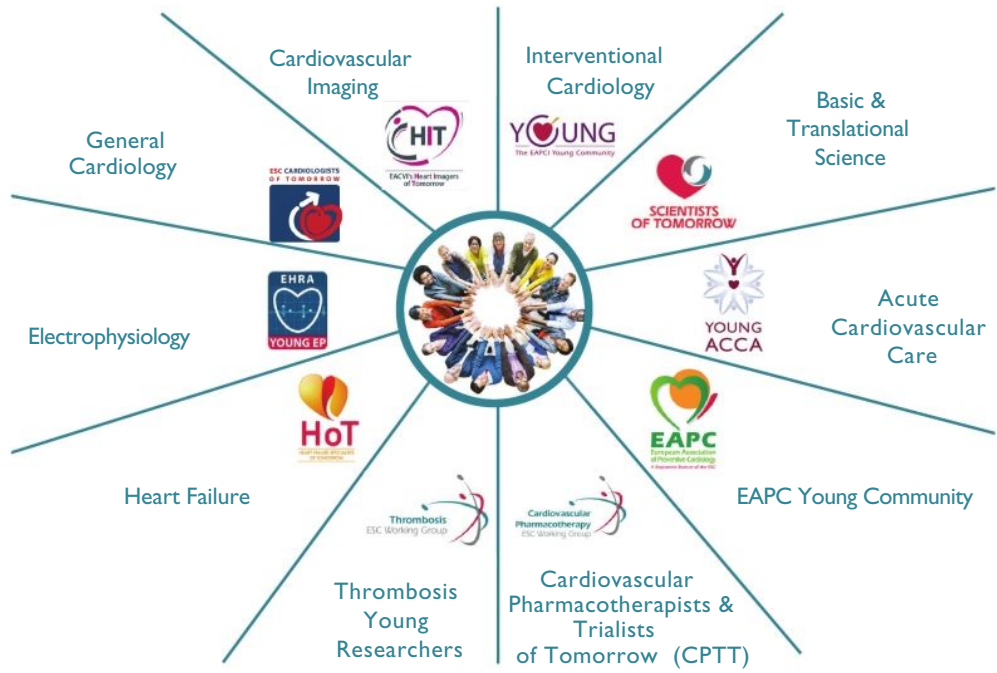
— Get the most of ESC Congress and don't miss:

- Cardiologists of Tomorrow Track - more on page G67
- Scientists of Tomorrow Track - more on page G66

— Become an ESC Professional Member:

Cardiologists in training can apply to become an ESC Professional Member for a greatly reduced fee of just €30.

More information on the ESC Professional Membership benefits on page G28.



Stay tuned and sign up for the My ESC News through your My ESC account
More on www.escardio.org/young



Acute
Cardiovascular
Care Association
ACCA
A Registered Branch of the ESC

Acute Cardiovascular Care Association (ACCA)

A patient-centric organisation where all professionals involved in the management of acute cardiovascular disease can exchange on the best education, research and science.

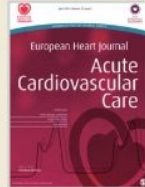
Mission: To improve the quality of care and outcomes of patients with acute cardiovascular diseases

Congress



Acute Cardiovascular Care Congress
3-5 March 2018 Milan – Italy

Journal



EHJ-Acute Cardiovascular Care

Activities at ESC Congress 2017

→ Visit **Village 8**, your area dedicated to Acute Cardiac Care

DON'T MISS

- **ACCA Association Highlight:** "Acute Cardiac Care in elderly patients"
Monday 28 August, 14:00-15:30, Tripoli (Village 8)
- **ACCA General Assembly**
Sunday 27 August, 10:00 - 11:00, ESC Meeting Room 1

→ Discover the **ESC Stand** on ESC Plaza and learn more about **ACCA**

- **Free:** Pick-up your **second edition of ACCA Clinical Decision-Making Toolkit**
- Access sample chapters of the new **E-learning programme (ESCeL) on Acute Cardiovascular Care** which offers a portfolio of 79 chapters among 11 sections
- Get more information about the **ACCA White Book 2016**
- Discover the second edition of **the IACC Textbook** (a key reference for training and certification in this specialty)
- Get information on webinars
- **Register now for:**
 - **The ACCA School**, designed for young cardiologists, 2-4 November 2017 in Madrid, Spain
 - The next **IACC Certification Exam** (4 November 2017 in Madrid, Spain)
 - The **Acute Cardiovascular Care Congress 2018 – Our annual congress** from 3 to 5 March 2018 in Milan.
- **Join our vibrant community and** choose what membership level best suits your needs. **ACCA** provides four levels of membership with a set of advanced benefits including:
 - ACCA Clinical Decision-Making Toolkit online edition
 - Discounts on publications:
 - *EHJ- ACVC Journal (online or print annual subscriptions)*
 - *IACC Textbook (lifelong online access or printed version)*
 - ACCA annual congresses resources
 - Online edition of the **ACCA White Book 2016**
 - Access to the **E-learning programme (ESCeL) on Acute Cardiovascular Care**
 - All ACCA webinar's recording
 - And much more!
- Join the **Young Acute Cardiovascular Care Community**; get your members benefits with special fee. Open to all healthcare professionals active in the field of Acute Cardiovascular Care that are under the age of 40

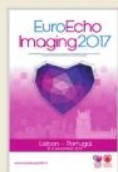


European Association of Cardiovascular Imaging (EACVI)

Echocardiography, Cardiovascular Magnetic Resonance, Nuclear Cardiology & Cardiac Computed Tomography.

Mission: To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging in Europe.

Congresses



EuroEcho Imaging 2017
6-9 Dec.
Lisbon, Portugal



CMR 2018
31 Jan.-3 Feb.
Barcelona, Spain
(jointly organised)



4th World Summit on Echocardiography
5-7 Oct. 2017
Rio de Janeiro, Brazil
(jointly organised)



EHJ-Cardiovascular Imaging
Impact factor
2016: 5.990

Journal

Activities at ESC Congress 2017

DON'T MISS

- **EACVI Association Highlight:** "Role of imaging in common clinical scenarios – Update on practice recommendations" Tuesday 29 August, 14:00 - 15:30, Beirut (Village 3)
- **EACVI HIT and CoT joint session:** What does the busy cardiologist need to know about recent advances in cardiology? Saturday 26 August, 13:30 - 15:00, Gaudi (The Hub)
- **EACVI General Assembly**
Monday 28 August, 16:00 - 17:30, ESC Meeting Room 01
- **EACVI Certification exam in TTE**
Wednesday 30 August, 07:00 - 13:00, Lisbon (Village 9)

→ Visit **Village 3**, your area dedicated to Cardiac Imaging and e-Technology

→ Discover the ESC Stand in ESC Plaza and learn more about the **EACVI initiatives**

- Membership programme and special offer
- Education: learn more about the **EACVI educational and practical tools:**
 - Live webinars (12+ sessions per year)
 - Tool boxes: check the latest box dedicated to Aortic Stenosis
 - Courses:
 - Live courses including "Multimodality Imaging in Cardiology" (8 September, Minsk, Belarus), "Magnetic Resonance in Cardiology" (5-7 October 2017, Riva del Garda, Italy), upcoming (dates and locations TBC): 2 preparatory courses respectively to CMR and to Echocardiography and "Multi-Modality Imaging course"
 - Echocardiography e-Learning programmes: with tutorials in TTE and TOE including 10 **NEW** TOE tutorials.
 - CMR e-Learning programme: including CMR tutorial videos
 - Clinical Case Galleries
 - Educational platforms: ESCeL and EduCAD
 - EACVI Grants in research & training (application deadline is 30 September)
- Certification in TOE, TTE, CMR, CHD. Upcoming: CMR CHD and Nuclear.
- Learn about the **EACVI's Heart Imagers of Tomorrow initiatives**

→ Download the **EACVI recommendations mobile app** – free access
Content in 7 languages

→ Get your **EACVI products** at the ESC Shop (ESC Plaza):

- **NEW!** ESC Textbook of Echocardiography (second edition)
- EACVI Echo handbook
- EACVI Compendium (2016 and 2017 issues)
- EACVI Abridged Recommendations
- EACVI CMR pocket guides including the **2017 edition** of the general CMR pocket guide
- EACVI Posters in Echocardiography

More on www.escardio.org/EACVI



European Association of Preventive Cardiology (EAPC)

Prevention, Epidemiology, Rehabilitation, Exercise Physiology, Sports Cardiology.

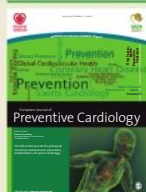
Mission: To promote excellence in research, practice, education and policy in cardiovascular health, primary and secondary prevention.

Congress



EuroPrevent
19-21 April 2018
Ljubljana - Slovenia

Journal



European Journal of Preventive Cardiology (EJPC)
Impact factor 2016: 3.606

Activities at ESC Congress 2017

→ Visit **Village 4**, your area dedicated to Prevention / Rehabilitation / Sports / Nursing

DON'T MISS

- **EAPC Association Highlight:** "The year in prevention: scientific highlights - Prevention - Interventions and Outcomes"
Tuesday 29 August, 14:00-15:30, room Chisinau (Village 4)
- **EAPC General Assembly:** Sunday 27 August, 15:30-16:30, ESC Meeting Room I
Check our web pages on the ESC website for the full schedule of open sections' meetings

→ Discover the ESC Stand in ESC Plaza to learn more about **EAPC**

- Pick up your **free European SCORE Risk Charts**
- Learn more about the **EAPC educational offer** - Training courses, online education and publications
- Get information about the **ESC Prevention of Cardiovascular Disease programme**
- Learn more about our CVD Prevention Tools
- Buy your copy of the **ESC Textbook & Handbook of Preventive Cardiology** at a special price
- **Choose the membership level that best suits your needs!** EAPC provides its members a set of advanced benefits including:
 - Reduced rates at EuroPrevent, the European congress on Preventive Cardiology
 - Exclusive online courses on the ESC eLearning Platform (prevention, rehabilitation, sports cardiology)
 - "How to" articles for your daily practice
 - Discounts on the *ESC Textbook / Handbook of Preventive Cardiology*
 - Online subscription to the European Journal of Preventive Cardiology (EJPC)
 - And much more...

More on www.escardio.org/EAPC



EAPCI
A Registered Branch of the ESC

European Association of Percutaneous Cardiovascular Interventions (EAPCI)

Coronary intervention, peripheral intervention, valve intervention, structural heart intervention

Mission: To reduce the burden of cardiovascular disease through percutaneous cardiovascular interventions.

Congresses



EuroPCR
22-25 May 2018
Paris-France



PCR London Valves
24-26 Sept. 2017

Journal



EuroIntervention
Journal (EIJ)
Impact factor 2016:
5.165

Activities at ESC Congress 2017

→ Visit **Village 6**, your area dedicated to Interventions / Peripheral Circulation / Stroke / Surgery with sessions designed to keep you up-to-date on how innovation changes daily practice in intervention and also to present a collaborative 360° view of intervention and surgery.

DON'T MISS

- **EAPCI Association Highlight:** "40 years of percutaneous coronary interventions and beyond" - Monday 28 August, 16:30-18:00, Bishkek (Village 6)
- **Congress Condensed - Interventional Cardiology:** Wednesday 30 August, 09:00-10:00, Dali (The Hub)
- **Live in the Box sessions:** Live procedures recorded at internationally leading centers.
- **40 years of Angioplasty exposition** at ESC Congress (stand H900)
- **An introduction to EAPCI Certification programme:** Sunday 27 August, 17:00 - 18:00, ESC Meeting Room 01 - Level 1

→ Discover the ESC Stand on ESC Plaza and learn more about **EAPCI**

- Membership offer
- Educational offer:
 - Certificate of excellence in training in Interventional Cardiology (ESC e-learning platform ESCeL)
 - EAPCI Interventional Cardiology Fellows Courses
 - Education and Training Grants in Interventional Cardiology
 - EAPCI Micro-Fellowship Standards programme
 - CathGO database of European centres offering research and training positions
- Valve for Life Initiative
- Congresses, journals, PCR-EAPCI Textbook and publications
- Come and pick-up a copy of the **EAPCI Supplement on National Registries**

More on www.escardio.org/EAPCI



European Heart Rhythm Association (EHRA)

Arrhythmias, Cardiac Pacing, Electrophysiology, Heart Rhythm, Atrial Fibrillation and Resynchronisation.

Mission: To improve the quality of life of the population by reducing the impact of cardiac disturbances and reduce sudden cardiac death.

Congress



EHRA 2018
18-20 March
Barcelona - Spain

Journal



EP Europace Journal
Impact factor 2016: 4.530

Activities at ESC Congress 2017

→ Visit **Village 5**, your area dedicated to Arrhythmias, Pacing and Resynchronisation

DON'T MISS

- **EHRA Association Highlight:** "Fighting sudden cardiac death: challenges and new strategies"
Monday 28 August, 14:00-15:30, Skopje (Village 5)

→ Discover the ESC Stand on ESC Plaza and learn more about **EHRA**

- Join or renew your EHRA membership and get access to these benefits:
 - Registration discount on EHRA 2018 Congress (18-20 March - Barcelona, Spain)
 - Discounted fee on EHRA 2017 remaining courses
 - EHRA Advanced EP with focus on VT ablation (28-30 Sept. in Warsaw, Poland)
 - EHRA Advanced EP with focus on AF ablation (23-25 Nov. in Sophia Antipolis, France)
 - EHRA Cardiac pacing, ICD and cardiac resynchronisation (11-13 Dec. in Vienna, Austria)
 - Reduced fee for the EP Europace Journal or free online and print access via Silver or Gold membership
 - Eligibility to EHRA Training Fellowship Programmes & Grants
 - Access to monthly EHRA Webinars (e-learning)
- Get the 10th edition of the EHRA White Book and its supplement
- Get free copies of the EHRA Key Messages booklets
- Discover EHRA website for patients. Available in 8 languages: English, French, German, Italian, Portuguese, Spanish, Swedish and Russian www.afibmatters.org
- Find out more about EHRA Young EP and their activities.

More on www.escardio/EHRA



HEART FAILURE
ASSOCIATION
OF THE ESC

Heart Failure Association of the ESC (HFA)

Made up of basic and clinical sections, focused scientific committees and study groups that embrace all aspects of Heart Failure.

Mission: To improve quality of life and longevity through better prevention, diagnosis and treatment of Heart Failure, including the establishment of networks, for its management, education and research.

Congress

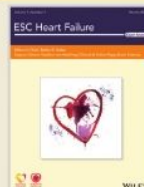


Heart Failure
Congress
26-29 May
2018
Vienna-Austria

Journals



European Journal on
Heart Failure (EJHF)
Impact factor 2016: 6.968



ESC Heart Failure
HFA Open Access
Journal

→ Activities at ESC Congress 2017

→ Visit **Village 9**, your area dedicated to Acute and Chronic Heart Failure

DON'T MISS

- **HFA Association Highlight:** "The future of Heart Failure therapy" Monday 28 August, 16:30 - 18:00, Warsaw (Village 9)

→ Discover the ESC Stand on ESC Plaza and learn more about **HFA**

- **Membership**
 - 3 levels of membership : Regular, Silver and Gold
 - Fellows of the HFA
 - Heart failure specialists Of Tomorrow (HoT)
- **Research & knowledge**
 - European Journal of Heart Failure and open access journal ESC Heart Failure
 - Workshops
 - Heart Failure scientific papers
 - Contribution to ESC Heart Failure Registries
- **Education**
 - E-learning
 - Heart Failure certification examination
 - Certified and accredited postgraduate education
 - Heart Failure Nurse and Heart Failure Specialist Curricula
 - Heartfailurematters.org for patients, their families and caregivers
- **Congresses & Events**
 - Heart Failure congresses
 - Winter Research Meeting
 - Clinical Trialist Summer School
 - Joint sessions at International Congresses
- **Advocacy**
 - Heart Failure Awareness Days
 - Contribution to ESC Atlas
 - National Heart Failure Societies / Working groups of ESC National Cardiac Societies

More on www.escardio.org/HFA

15 ESC Working Groups for 15 areas of expertise in Cardiology

Working Groups are the scientific backbone of the ESC and have been created to provide scientific expertise by excellence in a specific field.

They contribute to the Mission of the ESC: “To reduce the burden of cardiovascular disease”.

Among many initiatives such as study groups, publications, registries, position papers and ESC Clinical Practice Guidelines, the main function of a Working Group is to “contribute scientifically to the ESC Congress and other educational and scientific initiatives”.

From research to clinical applications, ESC Working Groups stimulate and disseminate scientific knowledge through various educational programmes. They encourage and facilitate exchange at a European level for best practice and ongoing medical development.

Activities at ESC Congress 2017

→ Your Villages dedicated to the Working Groups specific field

- Village 1: Basic Science
- Village 2: Hypertension / Cardiovascular Pharmacology
- Village 3: Cardiac Imaging / e-Technology
- Village 4: Prevention / Rehabilitation / Sports / Nursing
- Village 5: Arrhythmias / Pacing / Resynchronisation
- Village 6: Interventions / Peripheral Circulation / Stroke / Surgery
- Village 7: Valvular Disease / Pulmonary Circulation / Myocardial-Pericardial Disease / Congenital Heart Disease and Paediatric Cardiology
- Village 8: Coronary Artery Disease / Acute Coronary Syndromes / Acute Cardiac Care
- Village 9: Heart Failure (Chronic & Acute)

DON'T MISS: the **General Assemblies of the ESC Working Groups**

Location: ESC Meeting Rooms

Each ESC Working Group Chairperson presents the main achievements and the future initiatives of his/her Working Group. This is a unique opportunity to discover and get involved in scientific projects.

Timetable available on www.escardio.org/workinggroups

→ Discover the ESC Stand on ESC Plaza, join the **ESC Working Group** of your sub-specialty and learn more about:

- Scientific and educational activities
- Specific initiatives
- The ESC Textbook of Vascular Biology
- The European Heart Journal - Cardiovascular Pharmacotherapy
- Annual meetings organised by each Working Group
- the Working Group on Thrombosis **Young Researchers**
- the **Cardiovascular Pharmacotherapists and Trialists of Tomorrow**

More on www.escardio.org/workinggroups

The Councils bring together professionals with common interests in a particular field of cardiovascular medicine.

They contribute to the scientific knowledge disseminated via the ESC Guidelines, congresses and publications as well as providing opportunities for professionals in the cardiovascular field. If you are interested in basic science, nursing and healthcare, clinical practice, hypertension or stroke, there is a Council for you with specific activities related to your domain.

What's going on at ESC Congress 2017?

Further your knowledge with the Saturday programme in General Cardiology organised in conjunction with the Council for Cardiology Practice, the Council on Cardiovascular Primary Care, the Council on Cardiovascular Nursing and Allied Professions.

- **General Cardiology for Physicians, Technicians and General Practitioners**, Saturday 26 August, 09:00-15:00, Spotlight Stage
- **General Cardiology for Nurses and Allied Professionals**, Saturday 26 August, 9:00-15:00 Goya (The Hub) and Spotlight Stage

Full details on page G62

The ESC Councils bring their expertise to the ESC Congress throughout the scientific programme. Specific events from the Councils are listed below:

COUNCIL ON BASIC CARDIOVASCULAR SCIENCE

Visit **Village 1: Basic Science**

Don't miss:

- **Basic Science Poster Reception**, Sunday 27 August, 18:30-20:00, Poster Area.
- **Special session**: "Planning and developing your early career as a scientist" from the Scientists of Tomorrow, Monday 28 August, 7:30-8:15, Goya (The Hub)

COUNCIL ON CARDIOVASCULAR NURSING AND ALLIED PROFESSIONS (CCNAP)

Visit **Village 4: Prevention / Rehabilitation / Sports / Nursing**

Don't miss:

- **The CCNAP and European Journal of Cardiovascular Nursing Networking event**, Saturday 26 August, 19:00-22:00, Barcelona city centre

COUNCIL FOR CARDIOLOGY PRACTICE

Don't miss:

- **Congress Condensed – General Cardiology**, Wednesday 30 August, 9:00-10:00, Gaudi (The Hub)

COUNCIL ON HYPERTENSION

Visit **Village 2: Hypertension/Cardiovascular Pharmacology**

Don't miss:

- **General Assembly**, Sunday 27 August, 15:40-16:20, Pristina (Village 2)
- **Council Highlight**: "The year in hypertension – Hot papers 2016/2017", Saturday 26 August, 11:00-12:30, Astana (Village 2)

COUNCIL ON STROKE

Visit **Village 6: Interventions / Peripheral Circulation / Stroke / Surgery**

Don't miss:

- **General Assembly**, Monday 28 August, 15:40-16:20, Podgorica (Village 6)
- **Council Highlight**: "What cardiologists need to know about stroke", Sunday 27 August, 8:30-10:00, Luxembourg (Village 6)

Come on the ESC Stand (ESC Plaza) to learn more about the Councils' activities.

More on www.escardio.org/councils

ESC CONGRESS

BARCELONA 2017

**GENERAL
INFORMATION**



SCHEDULE

—→ **The Inaugural Session will take place at the Congress Centre on Saturday 26 August from 17:00 to 18:00 Room Barcelona (Main Auditorium)**
Doors will open at 16:30

Keynote Address: "The Future of Cardiovascular Medicine in the Digital Era" by Eric Topol, MD, Director, Scripps Translational Science Institute - Professor of Genomics, The Scripps Research Institute

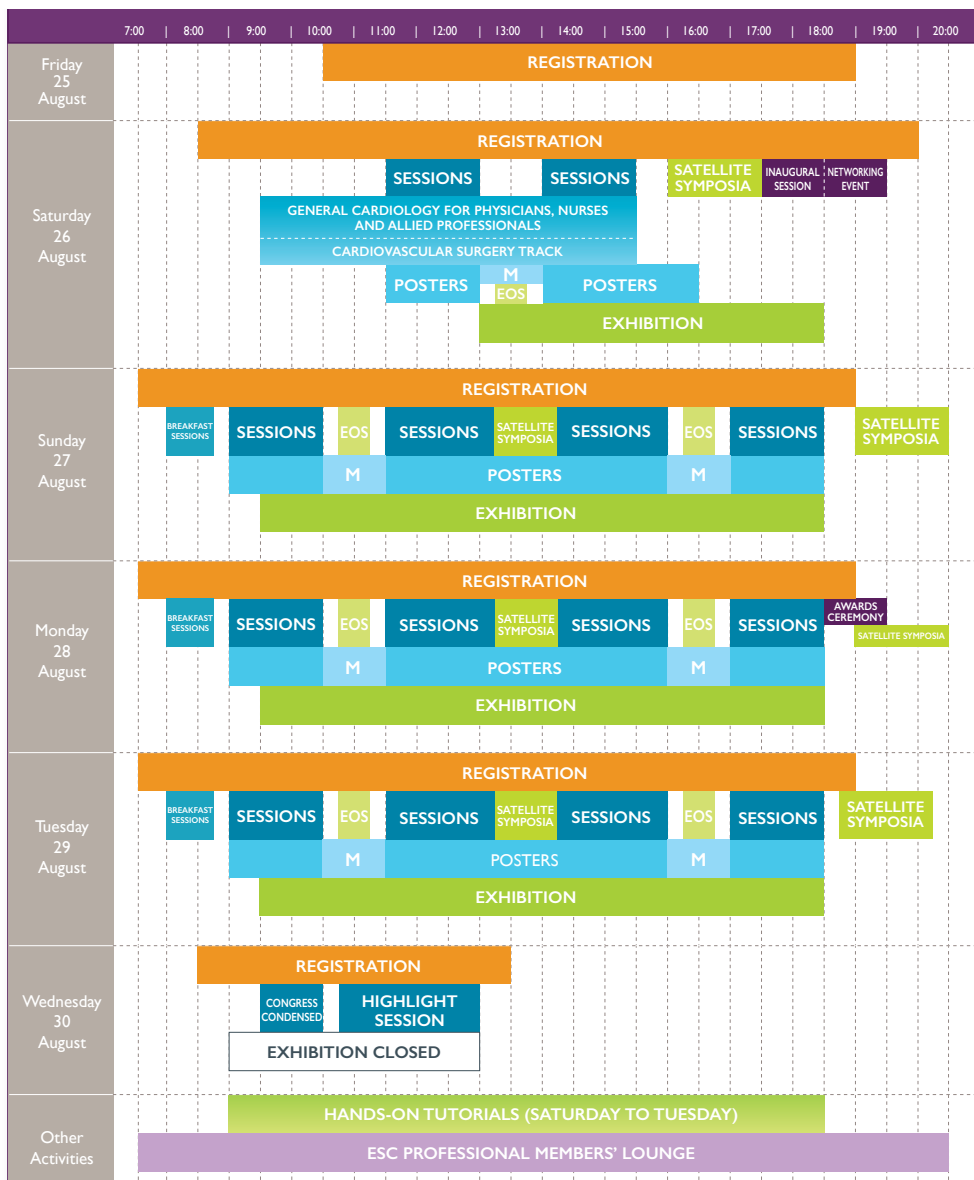
Free access for registered participants with Congress badges (limited number of seats)

It will be followed by a networking event in the ESC Professional Members' Lounge and the ESC Plaza.

—→ **The Awards Ceremony**

will take place on Monday 29 August in The Agora at 18:00

Featuring an ESC Awards Lecture to be given by Gold Medalist A DeMaria (La Jolla, US)



*M = Moderated Posters

*EOS = Experts on the Spot

CONGRESS INFORMATION

G4I

Organisers

ESC - European Society of Cardiology
The European Heart House
Les Templiers, 2035 Route des Colles,
CS 80179 Biot
06903 Sophia Antipolis Cedex - France

www.escardio.org
congress@escardio.org

ESC Congress is only accessible to healthcare professionals, associated press and other stakeholders in the science, management and prevention of cardiovascular disease.

Filming, Recording, and Photography

All visual or audio reproduction is strictly prohibited. Out of respect for presenters, and to avoid possible copyright infringement, you are kindly asked to respect this rule. Most presentations slides, abstracts and videos will be available on the ESC website via ESC Congress 365 www.escardio.org/365

Venue

Fira Gran Via (south entrance)
Av. Joan Carles I,64
08908 l'Hospitalet de Llobregat
Barcelona, Spain

The building is fully accessible to disabled people.

CONGRESS OPENING HOURS

	Main Entrance	Registration	Exhibition	Sessions
Friday 25 August	08:00 - 19:00	10:00 - 18:30	CLOSED	NO SESSIONS
Saturday 26 August	07:00 - 20:00	08:00 - 19:30	12:30 - 18:00	09:00 - 18:00
Sunday 27 August	07:00 - 21:00	07:00 - 18:30	09:00 - 18:00	07:30 - 20:00
Monday 28 August	07:00 - 21:00	07:00 - 18:30	09:00 - 18:00	07:30 - 20:00
Tuesday 29 August	07:00 - 20:00	07:00 - 18:30	09:00 - 18:00	07:30 - 19:45
Wednesday 30 August	07:00 - 13:00	08:00 - 13:00	CLOSED	09:00 - 12:15

Create your programme

MOBILE APP

Download the free ESC 2017 Mobile App to access the most up-to-date congress information:

- Access full programme, exhibitors, maps & practical information
- Search by Day, Topic, Type or Track
- Create your personalised programme (synchronised with your online Scientific Programme & Planner)
- View video, slides, abstracts & interviews with a direct access to ESC Congress 365
- Receive the latest news & follow #ESCcongress Twitter feed
- Ask questions and vote during Mobile App Interactive Sessions

Download the app at the dedicated desk located in the registration area and on the SERVIER Stand K300. Or search for "ESC 2017" in the App Store®/Google Play.

ESC Congress 2017 Mobile App is supported by SERVIER in the form of an unrestricted educational grant.

SP&P (Scientific Programme & Planner)

The online version of the Scientific Programme allows you to prepare your Congress attendance and to review abstracts online.

Search by topics, sessions or presenters and create your personalised programme.

— ESC Professional Members:

If you have pre-registered before 26 June, your registration pack containing your badge and ESC Professional Membership card was sent to you by post in mid July. On-site upon presentation of your badge you will just need to pick up your congress bag and transport ticket (if pre-ordered) at the ESC Professional Membership desks in Zone 5 of the registration area.

If you have pre-registered after 26 June or did not receive your registration pack, please go to Zone 6 to print your badge using the voucher with barcode that has been emailed to you. You will also receive your congress bag and transport ticket (if pre-ordered).

If you register on-site please go to the New Registration Desks in Zone 3

— FESC and Faculty Members (Zone 4):

FESC: If you have pre-registered before 26 June, your registration pack containing the badge and ESC Fellowship card was sent to you by post in mid July. On-site upon presentation of your badge you will just need to pick up your congress bag and transport ticket (if pre-ordered) at the FESC (Badge required) Desk in Zone 4.

If you have pre-registered after 26 June: you can print your badge on-site at the FESC Desk in Zone 4 using the voucher with barcode that has been emailed to you.

If you register on-site please go to the FESC Help Desk in Zone 4

Faculty members: please go your dedicated Faculty Desk in Zone 4

— For all other Delegates: if you have pre-registered please go to Zone 6 to print your badge using the voucher with barcode that has been emailed to you. You will also receive your congress bag and transport ticket (if pre-ordered).

If you register on-site please go to the New Registration Desks in Zone 3

Group registration: please go to Zone 2

Exhibitors registration: please go to Zone 1

Press registration: located in the Main Entrance

Registration Help Desks located in Zone 7 are available to assist you with all other cases or requests.

Your personal Congress badge is your passport to the scientific sessions and exhibition.

Please wear your Congress badge visibly at all times. Security guards may ask you to make your badge more visible. Remember to take it off when in the city.

When should I go to the lecture rooms?

We recommend you go to the lecture room well before the session begins.

Due to safety regulations, we are required to close access to the session if the room fills to capacity.

Access is limited to Delegates, Diamond Exhibitors, Scientific Exhibitors, FESC and ESC Professional Members.

Please take all personal effects with you upon leaving lecture rooms.

CERTIFICATE OF ATTENDANCE AND CME CREDITS

Attendance certificates including CME credits for registered participants will be provided on-site upon request, in the Registration Area, as of Monday 28 August in Zone 6.

Continuing Medical Education (CME) Credits



ESC Congress 2017 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net

ESC Congress 2017 is designated for a maximum of 26 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credits to AMA credits can be found at www.ama-assn.org/go/internationalcme.

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.

The ESC provides a Press Centre and dedicated facilities for journalists attending ESC Congress 2017. You can find all the details at www.escardio.org/press

Press Facilities and Schedule

A fully equipped Press Centre, including a Press Working Area, a Conference Room and Interview Rooms is open to registered press.

The Press Conference programme will begin on Saturday 27 August 2017 and continue throughout the ESC Congress.

ESC Press Conferences are held in the **ESC Press Conference Room, Press Area, level I.**

Online ESC Press Office

Daily updates will include the latest press releases and any changes to the press conference schedule will be available at www.escardio.org/press

New 2017 Embargo Rules

Embargoed materials as well as results and information related to sessions at any meeting or event organised by the ESC, are strictly confidential and cannot be disclosed in any manner or for any purpose prior to the lifting of the embargo by the ESC.

For Hot Line Studies, Basic and Translational Science, Clinical Trial, Registry Update, Oral and Poster abstract-based presentations: the embargo is lifted at the start of the scientific session in which the concerned presentation/study is scheduled.

Anyone who violates the ESC Media and Embargo Policy will be penalised.

The ESC Media and Embargo Policy and ESC Press Office web pages should be consulted for embargo information: www.escardio.org/press

For any questions related to embargoes, contact the ESC Press Office for clarification prior to releasing the information: press@escardio.org

Industry Press

A Conference Room and several interview rooms are provided for Industry press activities.

Industry-organised press conferences and interviews are held in the **Industry Press Conference Room, Press Area, Level I**

Convenient Industry Press Desk and Industry News room set up with convivial lounge areas will be made available on demand to our Industry Partners.

Access to the Industry Press Area is restricted to registered Press and Industry Exhibitors/Sponsors with activities booked therein.

During and after the Congress: network, make contacts, discuss and debate!



#ESCcongress



European Society of
Cardiology



escardiodotorg

A variety of public and private ground transport is available to take you everywhere in and around Barcelona, especially to the ESC Congress 2017 venue.

NEW THIS YEAR! The venue has its own metro station, **Fira**, with a tunnel leading directly into the venue.

TRANSPORT TICKETS

Five-day public transport tickets, at a special congress rate of €25, can be purchased in advance through the online individual registration page, or at the congress venue in the Main Entrance from Friday 25 August 2017 onwards.

Tickets are valid for unlimited journeys, on metro, bus and trams in zone I, and to and from the airport.

TO/FROM THE CONGRESS VENUE

ESC recommends using public transport wherever possible.

By Metro

The new metro line, Line 9 Sud, runs from the airport to Fira Gran Via, and into Barcelona city centre.

It connects with three other major metro lines, providing a simple way to get to Fira Gran Via from nearly every area of the city.

Two Metro stops:

- Fira (tunnel directly into venue)
- Europa Fira (5-minute walk)

Cost (airport to Fira Gran Via): €4.50

Journey Time (airport to Fira Gran Via): 20 minutes from Terminal 2.

By Bus

Bus line 79, stop, Av Joan Carles I-Botànica is the nearest stop to Fira Gran Via.

By Taxi to/from Venue

Ask the driver to drop you off at Fira Gran Via south entrance

Airport: a taxi from the airport to Fira Gran Via costs around €20

Journey time: about 15 minutes, depending on the time of day

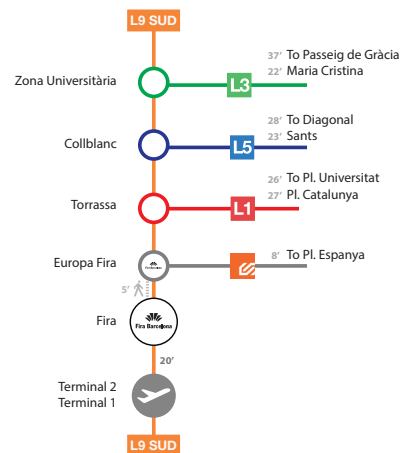
For hotels located close to the venue, please check with your hotel to see if there is a shuttle bus service to and from the airport.

City Centre: a taxi from the city centre to Fira Gran Via costs €25-€30.

Journey time: 15-20 minutes.

There is a taxi stand outside the congress venue on Av. Joan Carles I.

Metro lines connections to and from



FACILITIES & LOCAL INFORMATION

G45



Banks

Cash dispenser is available at the main entrance (south access) Level 0.
The official currency in Spain is the Euro (€).
Payment in other currencies will not be accepted.



Child Care

Children are not allowed at ESC Congress. There will be a childcare centre available for children of registered ESC Congress delegates during the Congress days, located below the Main Entrance (South Access) Level -1 and open from 08:00 to 18:00 on Congress days (except Wednesday, when it will close at 13:00). Childcare professionals will look after your children, free of charge, while you attend the Congress. Conditions are available on site and before the Congress on request.



City Info

For information about Barcelona, restaurants and other amenities, please visit the City Desk at the Main Information Point located at the Main Entrance.



ESC Shop

Located in the ESC Plaza, within the ESC Stand, the ESC Shop offers educational and scientific products, quality sportswear and accessories, as well as other ESC souvenirs for sale. 25% off on ESC Apparel and souvenirs for FESC and ESC Professional Members.



ESC HQ

The ESC Board, Leadership, and Management offices are located on walkway, Level 1, between Registration and Hubs.



ESC Information Points

Located throughout the venue, ESC staff are there to help you, so do not hesitate to ask for assistance.



ESC Professional Members' Lounge

It is located in the ESC Plaza. To join the ESC Professional Members Community visit us on the Membership Area, on the ESC Stand (at the entrance of the ESC Plaza).

FESC

FESC Lounge

It is located in the Registration Area. To join the Fellowship Community, complete your Fellowship application at the FESC Desk, on the ESC Stand (ESC Plaza).



Food and Beverage

Whether looking for a convenient seating area to eat or meet with peers, or just wanting a fast option on-the-go, the catering areas are located in between the Registration and the Exhibition areas. ESC Professional Members and FESC can access refreshments in their lounges.



Language

The official language at the Congress is English.



Left Luggage and Cloakroom

Left luggage and cloakrooms facilities are located in the Main Entrance.
The price is €3 per item.



Lost and Found

Lost and found items can be recovered at the Exhibitor Service Desk located at level -1 in Main Entrance (south access).



Medical Care

Participants in need of medical attention should go to the First Aid located at Hall 3 (by gate 3.14).
Tel: +34 93 233 40 02.



No smoking

ESC Congress is a non-smoking event. For the comfort and health of all participants, smoking is strictly prohibited in the building and its close vicinity.



Police and Safety

Security guards are in direct contact with the police. Please do not hesitate to ask a security guard or ESC staff member should you require police assistance. All bags are subject to inspection. Security guards are present for your safety. Please take all personal effects with you upon leaving lecture rooms.

PRAYER ROOM

Prayer Room

Located at the Main Entrance, Level 1.



Wi-Fi

Within the Congress venue, there is a free Wi-Fi network accessible through:

Name: esc-congress

Password: esc-congress

ESC Professional Members' Lounge



ESC Professional Members can enjoy access to the lounge located in ESC Plaza (*).

Take advantage of exclusive benefits, business centre facilities or simply breathe and relax.

→ EXCLUSIVE NETWORKING EVENTS with key opinion leaders including:

- The *European Heart Journal* - Meet the editorial team
- Women in Cardiology
- Career development with networking appointments
- ESC Professional Members in training meet Emeritus Fellows
- Social Media for the cardiologist - build a successful profile
- ESC Grants - the ESC offer, how to get them, meet with the ESC Grants awardees

→ 2017 ESC Pocket Guidelines - collect yours from Saturday 08:00

→ Education at ESC - demonstration of ESC educational offer

→ Behind the scene tour - discover the other side of ESC Congress with an exclusive visit of the congress centre led by the ESC Congress Manager

→ Have your portrait picture taken by a professional photographer

→ Complimentary refreshments

Full activities schedule held in the lounge is available on:

Scientific Programme
and Planner

ESC Congress
Mobile App

ESC Congress
News

LOUNGE OPENING HOURS

Saturday 26 August	08:00 - 19:30
Sunday 27 August	07:00 - 20:00
Monday 28 August	07:00 - 20:00
Tuesday 29 August	07:00 - 20:00
Wednesday 30 August	07:00 - 13:00

(*) You can collect your ESC Professional Membership card and renew your membership at the lounge welcome desk.

VISIT THE NEW ESC PLAZA

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Be sure to spend time on ESC Plaza and discover what the ESC and its partners can do for you.

ESC STAND

- Join the **membership community** that best suits your interests and needs - join for 2018 and receive membership for the remainder of 2017, including this ESC Congress
- Discover **ESC Education** - online learning demos, plus live course and certification information
- Find out about **ESC Research** - ESC Atlas of Cardiology demo and ESC Registries
- Learn more about **ESC Clinical Practice Guidelines** including Pocket Guideline App demos and support
- Renew your subscriptions to the **ESC Journal family**, and discover the new ESC Textbook of Cardiovascular Medicine 3rd Edition
- **ESC Congress 2018** – more about the host city Munich... plan ahead!
- Visit the **ESC Shop** to buy all ESC products, including textbooks, guidelines, scientific posters, souvenirs, ESC sportswear and more...

ESC PROFESSIONAL MEMBERS' LOUNGE

Exclusively for ESC Professional Members – access themed networking events, a professional portrait for your CV, FREE ESC Pocket Guidelines (2017), refreshments and much more.

Full activities schedule held in the Lounge is available on the ESC Congress Mobile App and ESC Congress News.

ESC NATIONAL CARDIAC SOCIETIES

Meet your National Cardiac Society and colleagues on their stand – all ESC National Cardiac Societies and stand numbers listed on page G22.

ESC GLOBAL ACTIVITIES AND PARTNERS

Discover ESC activities around the globe, network with colleagues at ESC Global Partner stands and use the Global Affairs meeting area for ad hoc meetings. Full listing of ESC Affiliated Cardiac Societies on page G23.

ESC TV STAGE

Hear summaries and informed discussions with thought leaders on the hottest topics presented at ESC Congress.... Drop in to catch the latest updates from around the congress. Can't make it – watch online at www.escardio.org/ESCTV.

VISIT THE NEW ESC PLAZA

CPR WORKSHOPS

Learn about the current CPR guidelines and meet ERC qualified instructors. The stand and course rooms are located in ESC Plaza (Main Auditorium side of the hall).

ESC and ERC (European Resuscitation Council) have the pleasure to offer delegates 90-minute refresher workshops on CPR-AED and Advanced CPR skills, free of charge. The content is based on in-hospital scenarios and the latest ERC guidelines. ERC will send a certificate of attendance after the congress.

Register from 9:00-18:00 (Saturday-Sunday).

Space is limited. Please check in 5 minutes before start of session.

CPR-AED Refresher Workshop

Saturday 26 August: 13:30-15:00

Sunday 27 August to Tuesday 29 August: 09:00-10:30 and 13:30-15:00

Advanced CPR Skills workshop

Saturday 26 August: 15:30 to 17:00

Sunday 27 August to Tuesday 29 August: 11:00-12:30 and 16:30-18:00

Resuscitate your life saving skills!

Organised in partnership with ERC (European Resuscitation Council)



HISTORY OF CARDIOLOGY

Share the memories of advances that have been made in cardiovascular care over the years.

Soak up the past and discover the therapies, device and equipment developed by the profession.

Come and visit the History of Cardiology stand EZ150 in ESC Plaza. It is a unique opportunity for everyone to express their interest and exchange with Doctor Jean-Jacques Monsuez (Sevran, France), Professor Otmar Pachinger (Innsbruck, Austria), Professor Dietrich Pfeiffer (Leipzig, Germany) who are behind this valuable initiative supported by the ESC.

This year, the **40 years of PCI's introduction to cardiology** will be highlighted along the exhibits.

European Heart for Children



Located in the Registration (ground floor).

At the European Heart for Children (EHC) stand you can support the cause and help children with congenital heart disease by purchasing merchandise or making a donation. All profits raised will go directly to the children by means of medical missions, training and building of the paediatric cardiological unit in Casablanca.

The annual EHC Fundraising Dinner will take place on Monday 28 August at 20:30 at Fira Gran Via in Hall 8. Guests will enjoy Spanish food and entertainment.

The cost per ticket is €155. Tickets can be purchased in advance by email at: info@europeanheartforchildren.org or on-site at the EHC stand, on Saturday 26 and Sunday 27 August, if still available.

Make the most of your congress experience with a range of online resources you can use before, during and after the Congress

ESC TV

News and opinion on the latest science and clinical developments

Recorded interviews and panel discussions featuring:

- Key messages
- Daily wrap-ups
- Session insights
- Perspectives from leading experts
- Dynamic sessions from the ESC TV Stage

NEW THIS YEAR! Live on the ESC TV Stage in ESC Plaza. Take part in the action.

Throughout the Congress, throughout the year, watch ESC TV on www.escardio.org/ESCTV

ESC CONGRESS 365

Your ESC Congress content online - all year, all free!

All scientific resources from ESC Congress are indexed in ESC Congress 365:

- Slides & e-Posters
- Videos
- Abstracts
- Reports
- ESC TV interviews and discussions

Abstracts are available for consultation one week before the congress, while other resources are posted after each presentation.

Bookmark www.escardio.org/365 to browse through 10 main areas representing over 150 cardiovascular topics, or search by keywords, years and resource types.

Add your favourite resources to "My 365 selection" for future reference and share content with colleagues.

You can also find the latest ESC TV interviews and discussions linked to specific topics and presentations.

Please note: ESC Congress 365 only features slides, reports and/or videos which have been authorised for use by the speakers and/or presenters.

During the Congress, the ESC Congress 365 dedicated desk is located in the registration area. Come and discover how to make the most of this online library.

ESC Congress 365 is supported by AstraZeneca, Bayer AG, Boehringer Ingelheim, the Bristol-Myers Squibb and Pfizer Alliance, Daiichi Sankyo Europe GmbH and Novartis in the form of an unrestricted educational grant



ESC TV

NEWS & OPINION

on the latest science and clinical developments
Throughout the congress
Throughout the year

escardio.org/esctv



ESC CONGRESS NEWS

Your free daily newspaper of ESC Congress 2017

Read it online or pick it up on the stands for:

- Daily scientific highlights
- Daily activities in the ESC Professional Members' Lounge
- Interviews and photos from key events
- Practical information to make the most of your stay in Barcelona

ESC CONGRESS 2017 IN REVIEW & ESC CONGRESS 2017 IN REVIEW – FOCUS EDITIONS

The official peer reviewed highlights from ESC Congress

Publications with scientifically-vetted articles on key findings presented at the congress. The 2017 editions will be available mid-October.

ESC Congress 2017 in Review is supported by SERVIER

ESC Congress 2017 in Review – Focus on Arrhythmias is supported by Boehringer Ingelheim

ESC Congress 2017 in Review – Focus on CAD & ACS is supported by Bayer AG

ESC Congress 2017 in Review – Focus on Interventions & Peripheral Circulation is supported by Bayer AG

More information on www.escardio.org/congressinreview

During and after the Congress: network, make contacts, discuss and debate!



#ESCcongress



European Society of
Cardiology



escardiodotorg

The fight against cardiovascular disease is a shared mission. Our Industry Partners offer a rich educational programme to delegates throughout the congress. Discover the wide variety of activities from educational sessions to stand activities in the industry programme booklet.

Invitations to educational sessions

Invitations to Satellite Symposia, Experts on the Spot sessions and Hands-On Tutorials are available in the industry programme booklet and also on display racks located in a strategic location within the Congress Centre.

Exhibition

ESC Congress 2017 will host an exhibition area at a prime location in the Congress Centre surrounded by scientific resources such as The Hub, the Poster area and the Villages.

Innovation from industry is an essential part of the Congress, favouring debate, learning and exchange. From pharmaceutical products to electronic devices, diagnostic tools to telemedicine, high tech imagery to clinical management software, the exhibition area is a technical and scientific display of current and future healthcare practices, goods and services relevant to the field of cardiology with a strong focus on science and education.

Emerging Technologies Showcase Area (ETSA)

Once again the ESC is delighted to present an area in the Exhibition dedicated to the newest cardiovascular developments from start-up companies at the forefront of research.

Publishers Area in Exhibition

The ESC is proud to work with a range of publishers who play an essential role in the global distribution of cardiovascular related information.

To discover the latest publications available, visit the Publishers Area, where you can discover Oxford University Press, SAGE Publishing and Wiley in the specially dedicated "ESC Publishers Row".

Exhibition opening hours

Saturday 26 August	12:30 – 18:00
Sunday 27 August	09:00 – 18:00
Monday 28 August	09:00 – 18:00
Tuesday 29 August	09:00 – 18:00
Wednesday 30 August	CLOSED

NEW THIS YEAR! Digital Health Area

Digital Health is revolutionising the face of healthcare. For the first time at ESC Congress, Mobile World Capital with a selection of digital health innovation drivers will present some of the solutions available today.

Located next to ESC Plaza. Open from 9:00 to 18:00 from Saturday to Tuesday and from 9:00 to 13:00 on Wednesday.

Important information

Please note that by scanning your badge at an Exhibition stand or at the entrance of a Sponsored Session, you accept that the company may contact you, using your contact details as submitted to the ESC.

ACKNOWLEDGMENTS

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Exhibiting Industry Partners

(as of 19/06/2017)

For company information, please refer to the full list in the Industry Programme and the Mobile App.

Abbott Vascular International BVBA

Abiomed Europe GmbH

Acarix A/S

Acon Laboratories Inc.

Actelion Pharmaceuticals Ltd

AMEDTEC Medizintechnik Aue GmbH

American Society of Echocardiography

Amgen Cardiovascular

AstraZeneca AB

Bayer AG

Beneware

BioMed Central

BioSenseTek Corp. Ltd

BIOTRONIK

Bittium

BMS Pfizer Alliance

Boehringer Ingelheim and Eli Lilly and Company

Boehringer Ingelheim

BPLab

Cardio Alex

Cardioline SPA

Cardiologs

Cardioscan Pty. Ltd

CardioSecur

Cardiostim

CASIS - Cardiac Simulation & Imaging Software

CD Leycom

CellAegis Devices

Charite - Campus Virchow-Klinikum (CVK)

China Qingdao Bright Medical Manufacturing Co Ltd

CIRCLE Cardiovascular Imaging Inc

CLINICAL RESEARCH MALAYSIA

CNSystems Medizintechnik AG

Content Ed Net Medicom

ContinUse Biometrics

Creavo Medical Technologies Ltd

CRI-The Clinical Research Institute GmbH

custo med GmbH

CVCT Global CardioVascular Clinical Trialists Forum

Daiichi Sankyo Europe GmbH

Defibtech

Denka Seiken co., LTD.

dms-service llc

DocCheck Medical Services GmbH

e-casebook

Edan Instruments, Inc

Edwards Lifesciences

EKOS Corporation, a BTG International group company

ELSEVIER LTD

ERCULES COMUNICAZIONI

Esaoite SpA

Europa Organisation

European Medical Journal

Ferrer Internacional SA

FibriCheck

Fondazione Internazionale Menarini

Frontiers

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GE Healthcare GmbH

GlaxoSmithKline PLC

GLENMARK PHARMACEUTICALS LTD

Health in Code, S.L.

HeartSciences

HEARTROID PROJECT

Hemologic B.V.

I.E.M. GmbH

Impulse Dynamics Germany GmbH

International Society on Thrombosis and Haemostasis (ISTH)

Kinpo Electronics, Inc

Labtech Ltd.

McGraw-Hill Education

Medimatic Srl

Medis Medical Imaging Systems bv

Medscape Cardiology

Medtronic International Trading SARL

MENARINI INTERNATIONAL

MESI Medical

Microlife AG

MIDES GmbH

Millar, Inc.

Mobile World Capital

Mortara Instrument, Inc.

MSD
Mylan EPD - BGP Products Operations GmbH
NEJM Group
Norav Medical GmbH
NorthEast Monitoring Inc
Novartis Pharma AG
Novo Nordisk A/S
Omron Healthcare Europe B.V.
Orion Corporation
Oxford University Press
Philips
Physicians' Academy for Cardiovascular Education
Portola Pharmaceuticals Inc
Preventicus GmbH
Radcliffe Cardiology
Randox Laboratories Ltd
ResMed
Roche Diagnostics International Ltd
Rooti
SAGE Publishing
Sanofi-Aventis Groupe
SCHILLER AG
SERVIER INTERNATIONAL
Shire International GmbH
Siemens Healthineers
SOLUBIO - Koch Evolution
SOMNOmedics GmbH
The Jama Network
THINKLABS MEDICAL
Thrombosis Research Institute
TOMTEC IMAGING SYSTEMS GMBH
Toshiba Medical Systems Europe BV
Vales & Hills BioMedical Tech.Ltd
Vifor Pharma
Whispering Hearts Inc
Wiley
Wisepress Online Bookshop
Wolters Kluwer Health
Zoll CMS GmbH
3M Health Care

Satellite Symposia *(as of 19/06/2017)*

For further information, please refer to the Scientific Programme daily sections, the online Scientific Programme & Planner, the Industry Programme and the Mobile App.

Abbott / St. Jude Medical
Abbott Vascular
Abiomed Europe GmbH
Actelion Pharmaceuticals Ltd
American Heart Association and Wolters Kluwer
Amgen Cardiovascular
AstraZeneca
Bayer AG
Boehringer Ingelheim
Boehringer Ingelheim & Eli Lilly and Company
Diabetes Alliance
Bristol-Myers Squibb and Pfizer Alliance
Charité Medical School
Cleveland Clinic
Daiichi Sankyo Europe GmbH
Edwards Lifesciences
EKOS, a BTG International group company
Ferrer
GE Healthcare
GSK
Medscape Education
Medscape Education and NATF
Medtronic
Menarini Group
MSD
Mylan
Novartis Pharma AG
Novo Nordisk
ORION PHARMA
Pfizer Inc.
Philips
Physicians' Academy for Cardiovascular Education
Roche Diagnostics International
Sanofi and Regeneron
SERVIER
Shire International GmbH
Siemens Healthineers
The Menarini Group
Thrombosis Research Institute
Vifor Pharma
Vifor Pharma/Vifor Fresenius Medical Care Renal
Pharma
ZOLL

Satellite Symposia – Experts on the Spot *(as of 19/06/2017)*

For further information, please refer to the Scientific Programme daily sections, the online Scientific Programme & Planner, the Industry Programme and the Mobile App.

Amgen Cardiovascular
AstraZeneca
Bayer AG
Boehringer Ingelheim
Boehringer Ingelheim & Eli Lilly and Company Diabetes Alliance
Bristol-Myers Squibb and Pfizer Alliance
Daiichi Sankyo Europe GmbH
Medscape Education
MSD
Novartis Pharma AG
Novo Nordisk
Physicians' Academy for Cardiovascular Education
Sanofi and Regeneron
SERVIER

Hands-On Tutorials *(as of 19/06/2017)*

For further information, please refer to the Scientific Programme dedicated section, the online Scientific Programme & Planner, the Industry Programme and the Mobile App.

ORION PHARMA
Philips
ResMed
Siemens Healthineers
Toshiba Medical Systems Europe

Sponsorship *(as of 19/06/2017)*

The ESC gratefully acknowledges the following organisations which have contributed to the success of ESC Congress 2017 via educational grants and support of advertisements and other sponsorship opportunities.

Actelion Pharmaceuticals Ltd
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Daiichi Sankyo Europe GmbH
Edwards Lifesciences
GE Healthcare
Medscape Education
Medtronic
Menarini Group
MSD
Mylan
Novartis Pharma AG
Novo Nordisk
Roche Diagnostics International
Sanofi and Regeneron
SERVIER
Shire International GmbH
Siemens Healthineers
Vifor Pharma
ZOLL

Exhibitors in ESC Plaza

(as of 19/06/2017)

For further information, consult the pages “European Society of Cardiology - Your Community” of this Programme and the Mobile App.

Albanian Society of Cardiology
Algerian Society of Cardiology
American College of Cardiology
American Heart Association
Argentine Society of Cardiology
Armenian Cardiologists Association
Arrhythmia Alliance
Asean Federation of Cardiology Congress
Asian Pacific Society of Cardiology
Association for European Paediatric Cardiologists (AEPC)
Association of Cardiologists of Bosnia and Herzegovina
Association of Cardiologists of Kazakhstan
Austrian Society of Cardiology
Azerbaijan Society of Cardiology
Belgian Society of Cardiology
Belorussian Scientific Society of Cardiologists
Brazilian Society of Cardiology
British Cardiovascular Society

Bulgarian Society of Cardiology
Canadian Cardiovascular Society
Cardiological Society of India
Cardiology Society of Serbia
Cardiovascular Society of India
Chinese Society of Cardiology
CPR (CardioPulmonary Resuscitation) Workshops
Croatian Cardiac Society
Cyprus Society of Cardiology
Czech Society of Cardiology
Egyptian Society of Cardiology
European Association for the study of Diabetes
European Atherosclerosis Society
European Heart for Children
European Society of Cardiology (ESC)
ESC Global Affairs Meeting Point
French Society of Cardiology
Georgian Society of Cardiology
German Cardiac Society
Great Wall International Congress of Cardiology (GW-ICC)
Gulf Heart Association
Hellenic Society of Cardiology
History of Cardiology
Hungarian Society of Cardiology
Interamerican Society of Cardiology
International Society of Cardiovascular Pharmacotherapy
Irish Cardiac Society
Israel Heart Society
Italian Federation of Cardiology
Japanese Circulation Society
Korean Society of Cardiology
Kosovo Society of Cardiology
Kyrgyz Society of Cardiology
Lebanese Society of Cardiology
Libyan Cardiac Society
Luxembourg Society of Cardiology
Macedonian FYR Society of Cardiology
Maltese Cardiac Society
Mexican Society of Cardiology
Montenegro Society of Cardiology
Moroccan Society of Cardiology
Netherlands Society of Cardiology
Nordic-Baltic Cardiology Alliance
Polish Cardiac Society
Portuguese Society of Cardiology
Romanian Society of Cardiology
Russian Society of Cardiology
San Marino Society of Cardiology
Saudi Heart Association
Slovak Society of Cardiology
Slovenian Society of Cardiology
South African Heart Association
Spanish Society of Cardiology
Swiss Society of Cardiology
Tunisian Society of Cardiology and Cardio-vascular Surgery
Turkish Society of Cardiology
UEMS and EACCME
Ukrainian Association of Cardiology
World Heart Federation

DIGITAL HEALTH @ ESC CONGRESS

4YFN | Connecting Startups

For the first time, the ESC has teamed up with 4YFN, the startup business programme of Mobile World Capital Barcelona.

We will bring you exciting innovations from those pushing the envelope in digital health.

Digital health will revolutionise cardiovascular medicine and the way health practitioners interact with, and manage, patients.



DROP IN TO DISCOVER INNOVATIONS AND GET DEMOS FROM A SELECTION OF DIGITAL HEALTH INNOVATION DRIVERS ON THE DIGITAL HEALTH STAGE



 **ESC**
European Society
of Cardiology



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QR code for iOS & Android

Need help?

Find assistance at the Mobile App Desk located in the Registration Area and on the SERVIER Stand K300



ESC 2017 Mobile App is supported by SERVIER in the form of an unrestricted educational grant



ESC CONGRESS

BARCELONA 2017

SCIENTIFIC
PROGRAMME



SPOTLIGHT: 40 YEARS OF PCI

Spotlight Sessions have been designed throughout the programme to highlight the impact coronary intervention has had on all fields of cardiology; with up-to-date presentations of leading interventional cardiologists from around the globe.

Sessions related to the Spotlight of the Congress are highlighted with the following icon  in the programme.

This special track has been designed with the support and collaboration of the European Association of Percutaneous Cardiovascular Interventions (EAPCI).

Don't miss**Sunday 27 August**

14:40-15:30 Young Investigator Awards Percutaneous Coronary Intervention

Podgorica (Village 6)

page

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Live in the Box Sessions

Interventional cases from leading international centres - See page G70

Congress Condensed - Interventional Cardiology

See details on page G61

ESC CONGRESS HIGHLIGHTS

A must-attend event every year, this session provides the most important take-home messages across all cardiovascular topics from all presentations during ESC Congress 2017 in just 2 hours on **Wednesday 30 August at 10:15 in Barcelona (Main Auditorium)**.

This is THE session to attend before heading home. Leading experts will present and comment on the most relevant new developments in clinical, basic science and population sciences presented during the congress.

Chairpersons:

S Achenbach (Erlangen, DE)

S G Priori (Pavia, IT)

ESC Congress 2017 Awards

Arrhythmias

Heart failure and cardiomyopathies

Acute coronary syndromes

Basic science

Interventional cardiology

Hypertension

Valvular heart disease and pulmonary circulation

Imaging

Preventive cardiology

S Achenbach (Erlangen, DE)

J Camm (London, UK)

M Boehm (Homburg/Saar, DE)

M Lettino (Milan, IT)

J D Pearson (London, UK)

J Mehilli (Munich, DE)

G De Simone (Naples, IT)

L Pierard (Liege, BE)

V Delgado (Leiden, NL)

E Prescott (Copenhagen, DK)

All Congress Condensed sessions will be held on **Wednesday 30 August** from **09:00 to 10:00**.

Congress Condensed – ESC Clinical Practice Guidelines 2017

Barcelona (Main Auditorium)

Chairpersons: M Roffi (Geneva, CH), S Windecker (Bern, CH)

09:00	Valvular heart disease	M Roffi (Geneva, CH)
09:15	Focused update on dual antiplatelet therapy	P Vranckx (Hasselt, BE)
09:30	Peripheral arterial diseases	P Widimsky (Prague, CZ)
09:45	AMI-STEMI	J-P Collet (Paris, FR)

Congress Condensed – Interventional Cardiology

Dali (The Hub)

Chairpersons: A Baumbach (London, UK), R Mehran (New York, US)

09:00	Aortic stenosis and transcatheter treatment	C Tamburino (Catania, IT)
09:15	Multivessel coronary artery disease and revascularisation	A Kastrati (Munich, DE)
09:30	Biomarkers to guide the management of coronary artery disease	S Blankenberg (Hamburg, DE)
09:45	Dual antiplatelet therapy for coronary artery disease	M Gilard (Brest, FR)

Congress Condensed – General Cardiology

Gaudi (The Hub)

Chairpersons: R Asteggiano (Turin, IT), M Guenoun (Plan-De-Cuques, FR)

09:00	Hypertension and prevention	D L Clement (Ghent, BE)
09:15	Arrhythmias and devices	G Baron Esquivias (Sevilla, ES)
09:30	Heart failure	D J Richter (Athens, GR)
09:45	Coronary artery diseases	S Silber (Munich, DE)

Congress Condensed – Basic Science

Goya (The Hub)

Chairpersons: J D Pearson (London, UK), L Badimon (Barcelona, ES)

09:00	Cardiovascular development and regeneration	F B Engel (Erlangen, DE)
09:10	Ischaemic heart disease	D Garcia-Dorado (Barcelona, ES)
09:20	Cardiac hypertrophy and heart failure	E Van Rooij (Utrecht, NL)
09:30	Arrhythmia and cardiomyopathies	Y Pinto (Amsterdam, NL)
09:40	Atherothrombosis	P Evans (Sheffield, UK)
09:50	Inflammation and immunomodulation	E Lutgens (Amsterdam, NL)

A full programme dedicated to update healthcare professionals on the most relevant issues they have to face on a daily basis.

GENERAL CARDIOLOGY FOR PHYSICIANS, TECHNICIANS AND GENERAL PRACTITIONERS

The sessions will address daily practice issues and offer a forum for discussions and exchange between professionals and an international panel of experts.

Saturday 26 August – Spotlight Stage

	page
09:00-10:30	An update on cardiovascular prevention 24
11:00-12:30	Difficult arrhythmology issues in practice 24
12:40-13:20	Palliative cardiovascular care 38
13:30-15:00	Clinical challenges in cardiovascular drug therapy 40

NEW! Not to be missed on Wednesday 30 August from 09:00 to 10:00 in Gaudi (The Hub) - **Congress Condensed – General Cardiology** - For essential take-home messages on general cardiology from ESC Congress 2017.

GENERAL CARDIOLOGY FOR NURSES AND ALLIED PROFESSIONALS

The participants will be able to discuss and debate the latest developments and future prospects and how nurse-led services contribute to improved evidence-based practice and outcomes, and effective strategies for guideline implementation.

Saturday 26 August in Goya (The Hub)

	page
09:00-10:30	PCI: your questions answered by nursing specialists 24
11:00-12:30	Screening: an important priority for prevention in cardiovascular conditions 25
13:30-15:00	Fit or frail? 41

The above two tracks are organised in conjunction with the ESC Council for Cardiology Practice, the ESC Council on Cardiovascular Primary Care & the ESC Council on Cardiovascular Nursing and Allied Professions, in collaboration with Spanish partner groups and associations.

Don't miss the Nursing and Allied Health Professions Investigator Award on Sunday 27 August at 11:00 in room Vilnius (Village 4)

CARDIOVASCULAR SURGERY

Addressing the future of cardiac surgical technology.

Saturday 26 August in Luxembourg (Village 6)






	page
09:00 - 10:30	Aortic root to bifurcation - A journey through a vessel 24
11:00 - 12:30	Selecting the best revascularisation strategy in stable CAD 31
13:30 - 15:00	Surgery for "frequent flyers" with severe heart failure 47
	<i>This session will feature a recorded clinical case.</i>

This programme is organised in collaboration with the ESC Working Group on Cardiovascular Surgery and local groups with a focus on the education of the cardiologists on surgical aspects.

Search through the programme for more cardiovascular surgery.

The sessions will address aspects of Guidelines implementation, gaps in evidence and practical management of the guidelines in the specific country, with the support of EORP Registry data.

NEW! BIG PICTURE SESSIONS

			page
	SPAIN	Saturday 26 August 11:00-12:30 Chronic heart failure	Dali (The Hub) 25
	FRANCE	Monday 28 August 08:30-10:00 Hypertrophic cardiomyopathy	Miro (The Hub) 198
	RUSSIA	Monday 28 August 11:00-12:30 Atrial fibrillation ablation	Miro (The Hub) 214
	GREECE	Tuesday 29 August 08:30-10:00 Stable coronary artery disease	Miro (The Hub) 315
	TURKEY	Tuesday 29 August 11:00-12:30 Peripartum cardiomyopathy (PPCM)	Miro (The Hub) 330

GiP MY NCS@ESC SESSIONS

			page
	ROMANIA	Sunday 27 August 11:00-12:30 Ventricular arrhythmias and sudden death	Valetta (Village 5) 103
	FINLAND	Sunday 27 August 16:30-18:00 Atrial fibrillation management	Miro (The Hub) 157
	AUSTRIA	Monday 28 August 14:00-15:30 Heart failure management	Lisbon (Village 9) 265
	BELGIUM	Monday 28 August 16:30-18:00 NSTEMI-ACS	Dali (The Hub) 272
	TUNISIA	Monday 28 August 16:30-18:00 Myocardial revascularisation	Tripoli (Village 8) 280
	UKRAINE	Monday 28 August 16:30-18:00 Pulmonary hypertension	Podgorica (Village 6) 279

— Don't miss the My NCS@ESC Mini Quiz on Saturday in Miro (The Hub)

Refresh your knowledge on ESC 2016 Clinical Practice Guidelines with the competing teams

09:00-10:30 Austria

11:00-12:30 Romania vs Tunisia

13:30-15:00 Belgium vs Egypt

DIGITAL HEALTH

The future
is NOW!

Sunday 27 August

- **08:30-10:00** Impact of information technology solutions on cardiovascular care **Riga (Village 3)**
- **10:10-10:50** eHealth to improve clinical practice **Agora 2 (Agora)**
- **15:40-16:20** eHealth for interventional cardiology **Agora 2 (Agora)**

Monday 28 August

- **07:30-08:15** Artificial intelligence - Smartphone apps and new technologies (for use in clinical practice) **Agora 2 (Agora)**
- **10:10-10:50** Big Data for Dummies **Agora 2 (Agora)**
- **14:00-15:30** CATCH ME - Management of patients with atrial fibrillation **Beirut (Village 3)**
- **15:40-16:20** eHealth and the ESC Clinical Practice Guidelines **Agora 2 (Agora)**

INNOVATION TRACK

Saturday 26 August

- **12:40-13:20** The digital revolution in cardiovascular medicine **Dali (The Hub)**

Sunday 27 August

- **10:10-10:50** Understanding the complexity of the innovation process **Dali (The Hub)**

Monday 28 August

- **10:10-10:50** Start-up case studies - Success and failures **Dali (The Hub)**

ALSO NOT TO BE MISSED

Saturday 26 August

Keynote Presentation during the Inaugural Session: The Future of Cardiovascular Medicine in the Digital Era by Eric Topol (La Jolla, US)

Sunday 27 August

- **15:40-16:20** Social media for the cardiologist **Agora 1 (Agora)**

Visit the Digital Health Area located next to ESC Plaza to attend demonstrations of eHealth innovative solutions and technology drivers.

NEW! VASCULAR TRACK

Diagnosis as well as the medical and interventional management of aortic, arterial and venous disorders.

Monday 28 August in Podgorica (Village 6)		page
08:30-10:00	The dilated aorta	204
11:00-12:30	Asymptomatic carotid stenosis - A tailored management	220
14:00-15:30	Debates in peripheral vascular disease	263

Tuesday 29 August

08:30-10:00	Critical debates in lower extremity artery disease	Podgorica (Village 6)	320
11:00-12:30	Clotted veins: pill or drill?	Luxembourg (Village 6)	336
14:00-15:30	Women's vessels: another mystery	Podgorica (Village 6)	376

NEW! ESC EDUCATION TRACK

Exciting ESC content and globally renowned speakers are lined up to take you through various interactive and practical sessions about the ESC learning tools.

Monday 28 August		page	
10:10-10:50	ESC eLearning Platform - Outcomes and lessons learned	Agora I (Agora)	211
14:00-15:30	Key messages from the most popular ESC webinars	Goya (The Hub)	257
16:30-18:00	Test your clinical knowledge with the European Exam in General Cardiology	Goya (The Hub)	273

Tuesday 29 August

08:30-10:00	New ESC Clinical Practice Guidelines 2016/2017 - Clinical cases put into perspective	Goya (The Hub)	314
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CARDIAC ANATOMY AND PATHOLOGY LIVE SESSIONS

Popular hands-on and live-video demonstrations of heart specimens that show unique examples of congenital and acquired heart disease.

These sessions are organised jointly by the Working Group on Development, Anatomy and Pathology.

Sessions will be held from 08:30 to 10:00 in Rabat (Village 7)

Sunday 27 August	Cardiac anatomy for interventional cardiologists	87
Monday 28 August	Pathology for cardiac imaging of unusual cardiomyopathies	204

The “Scientists of Tomorrow” is a group of young proactive basic and clinical researchers who work closely with the Council on Basic Cardiovascular Science to fulfil its mission to promote and support basic science among the young ESC members.

Sessions include key tips on the first successful grant application, the first paper published and importantly, opportunities to develop the next career step.

All sessions will be held in Goya (The Hub).

This programme is complementary to the Basic Science Programme held in Village I.

Don't miss

Sunday 27 August

NEW! 14:00-15:30 The ESC William Harvey Lecture on Basic Science session immediately followed by the Young Investigator Awards Basic Science session

page

144

Focus on career development

Sunday 27 August

18:30-20:00 The council on Basic Cardiovascular Science invites all basic scientists and friends to the **Poster Reception** held in the Poster Area. This is a unique opportunity for young scientists to meet experienced researchers in a convivial atmosphere.

Monday 28 August

07:30-08:15 **Planning and developing your early career as a scientist**

196

A dynamic educational track throughout the programme to provide young cardiologists with some of the most relevant and up-to-date information in key areas of cardiovascular medicine.

All sessions will be held in Gaudi (The Hub).

CLINICAL CASE SESSIONS

Five highly interactive and educational sessions where young clinicians present their cases and discuss management with senior experts.

Sunday 27 August

page

14:00-15:30 **Best Clinical Cases - Award session**

140

The ESC will give a prize of €2 000 to the best case presentation while the three remaining finalists will each receive €1 000.

Results will be announced at the Awards Ceremony on Monday 28 August at 18:00 in Dali (The Hub). The ESC Awards Inspirational Career Lecture will be given by Gold Medalist A DeMaria (La Jolla, US)

NEW!

The ESC Named Lectures will be held before their related Young Investigator Awards Sessions. See details page G83

Do not miss the opportunity to listen to renowned leaders in the field of cardiology as an inspiration for the younger generation who will compete for a prestigious ESC Award.

Focus on career development

Several sessions are specifically designed to explore opportunities and solutions for your future professional pathway. Don't miss the following sessions:

Sunday 27 August

07:30-08:15 **Career counselling - Be proactive and listen to the champions**

80

Tuesday 29 August

07:30-08:15 **First night in the ICU - Survival of the fittest**

312

MOBILE APP INTERACTIVE SESSIONS

Some sessions have been designed to actively involve the audience in the scientific exchange. These sessions are held in their topic related villages as they address specific aspects of each specialty.

For the session schedule look for the following icon in the programme:



You can also look on the online Scientific Programme & Planner and the ESC 2017 Mobile App. Use the button "**Interact now**" to display the ongoing sessions.

Make sure you have downloaded the ESC 2017 Mobile App to be ready to interact and vote during the sessions

Search for "ESC 2017" in the App Store® / Google Play or scan the following QR Code.



→ Your device must be connected to internet. You can use the free WI-FI provided during the Congress:

Login: esc-congress **Password:** esc-congress

- Open the ESC 2017 Mobile App
- Click on the button "Interact now"
- Click on the session you attend – Cast your vote or ask a question



Interaction features:

Ask a Question

Send directly your session/topic related question to the Chairperson during the session: a selection of questions will be answered during the session.

Voting

Answer questions when prompted by the speaker: the speaker will show a question slide with a choice of up to five possible answers (each referenced by letters A-E). These letters will appear on the screen. To vote, simply click on your answer's letter. The answers of the vote will be displayed in real time on the screen and discussed.

These features are only available during the sessions and need an internet access. You can use the provided WI-FI.

EXPERTS SESSIONS

G69

MEET THE EXPERTS CASE DISCUSSIONS

Case-based sessions that highlight clinical decision making in the context of practical management of cardiovascular disease, featuring interactive discussion among leading experts.

NEW! EXPERT ADVICE

In depth educational sessions on specific and pertinent clinical questions with lectures by internationally acclaimed experts in the respective field.

NEW! SUMMIT SESSIONS

Saturday 26 August

11:00-12:30 The TAVI/TAVR Summit Podgorica (Village 6) 31

Monday 28 August

11:00-12:30 The Heart Failure Summit Lisbon (Village 9) 222
16:30-18:00 The Primary Prevention Summit Chisinau (Village 4) 278

Tuesday 29 August

08:30-10:00 The Vulnerable Plaque Summit Vilnius (Village 4) 319

NEW! IMAGE INTERPRETATION WITH THE MASTERS

These sessions will be held in room Riga (Village 3)

Sunday 27 August

10:10-10:50 Image Interpretation with the Masters - Advanced cardiac PET and MRI 94
15:40-16:20 Image Interpretation with the Masters - Multimodality imaging for risk stratification in coronary artery disease 154

Monday 28 August

08:30-10:00 Image Interpretation with the Masters - Cardiac CT 202
10:10-10:50 Image Interpretation with the Masters - Thrombosis of bioprosthetic heart valves 211
15:40-16:20 Image Interpretation with the Masters - Valvular heart disease 270

Tuesday 29 August

11:00-12:30 Image Interpretation with the Masters - Cardiac MRI 335

LET'S TALK ABOUT STRATEGY

Monday 28 August

14:00-15:30 Let's Talk about Strategy - Interventional approaches from easy to complex anatomy Spotlight Stage 256

New!

LIVE IN THE BOX



Interventional cases from
international leading centres

On the Spotlight Stage



Sunday 27 August

- Coronary Chronic Total Occlusion (CTO)
 University Heart Center Zurich – Switzerland
11:00-12:30
- PCI of complex coronary lesions - Left main bifurcation PCI
 Munich University Clinic – Germany
16:30-18:00

Monday 28 August

- Mitral valve repair
 University Hospital of Zurich – Switzerland
11:00-12:30
- Imaging versus functional guided PCI
 Cardiovascular Center Onze-Lieve-Vrouw Kliniek Aalst – Belgium
16:30-18:00

Tuesday 29 August

- STEMI
 Barts Heart Center, St Bartholomew's Hospital, London – United Kingdom
11:00-12:30
- Left Atrial Appendage (LAA) closure
 CardioVascular Center Frankfurt – Germany
14:00-15:30

EXPERTS SESSIONS

G7I

GREAT DEBATES

Speakers will present opposing views on controversial issues in current cardiovascular care. They will defend their arguments and be challenged by a panel of experts. The audience will cast votes to determine the most convincing argument.

Sunday 27 August

08:30-10:00	Left atrial appendage occlusion	Spotlight Stage	81
08:30-10:00	Are vasolidators useful in the treatment of acute heart failure?	Dali (The Hub)	81
11:00-12:30	Do we need PCSK9 inhibitors in post-MI patients?	Dali (The Hub)	97
14:00-15:30	Viability in clinical decision making	Dali (The Hub)	139

Monday 28 August

08:30-10:00	Blood pressure targets: is 120 too low?	Spotlight Stage	197
11:00-12:30	Inflammation and cardiovascular disease	Dali (The Hub)	214

Tuesday 29 August

08:30-10:00	Secondary mitral regurgitation requires invasive therapy to improve outcome	Dali (The Hub)	314
08:30-10:00	Left main is now a domain of interventional cardiology	Spotlight Stage	313
11:00-12:30	Aspirin for life	Dali (The Hub)	329



Mobile App interactive session – Audience is invited to participate via the 'ESC 2017' Mobile App, for votes and questions to be asked to the panel. Make sure you download the App.

CARDIOLOGY@BREAKFAST

Highly interactive early morning sessions between 07:30 and 08:15 with a unique opportunity for close encounters between a small audience and world renowned experts.

With a special focus on career development, several sessions are designed for a young audience to explore opportunities and solutions for professional advancement.

CASE-BASED SYMPOSIA

Based on clinical cases, these sessions focus on practical, difficult, or controversial aspects in clinical cardiovascular care and are designed for maximum interaction between presenters, panelists and audience.

SYMPOSIA

Lecture-based educational and didactic sessions, with state-of-the-art reviews covering clinical cardiology, epidemiology, as well as clinical and basic cardiovascular research.

ESC CLINICAL PRACTICE GUIDELINES 2017

Barcelona (Main Auditorium)

Sunday 27 August

- **08:30-10:00** ESC Guidelines 2017 - Overview
- **14:00-15:30** ESC Guidelines 2017 - AMI-STEMI
- **16:30-18:00** ESC Guidelines 2017 - Focused update on dual antiplatelet therapy

Monday 28 August

- **08:30-10:00** ESC Guidelines 2017 - Valvular heart disease
- **16:30-18:00** ESC Guidelines 2017 - Peripheral arterial diseases

Wednesday 30 August

- **09:00-10:00** Congress Condensed - ESC Clinical Practice Guidelines 2017

ASK YOUR QUESTIONS TO THE ESC GUIDELINES TASK FORCES

Join the Task Forces for an informal session at the Spotlight Stage.

Sunday 27 August

- **15:40-16:00** AMI-STEMI
- **16:00-16:20** Focused update on dual antiplatelet therapy

Monday 28 August

- **15:40-16:00** Peripheral arterial diseases
- **16:00-16:20** Valvular heart disease

MORE ON ESC GUIDELINES

GiP

Guidelines in Daily Practice sessions in most of the Villages. What the ESC Clinical Practice Guidelines really mean and how to implement them.

Not to be missed:

Congress Condensed ESC Clinical Practice Guidelines 2017

Wednesday 30 August
09:00 - 10:00

Did you know that all recent Pocket Guidelines & their interactive tools are now available to download on your mobile device?

Search for "ESC Pocket Guidelines" in the **App store® / Google Play / Amazon.**

Join the experts in each specialty to confront the guidelines and actual clinical cases.

Panel of experts from the guidelines will discuss the implementation mode.



Mobile App interactive session – Audience is invited to participate via the ‘ESC 2017’ Mobile App, for votes and questions to be asked to the panel. Make sure you download the App.

GUIDELINES IN DAILY PRACTICE SESSIONS

Sunday 27 August

page

11:00-12:30	The dissected aorta: confronting guidelines with practice	Luxembourg (Village 6)	103
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Monday 28 August

11:00-12:30	Pulmonary embolism: dilemmas in practical management	Oslo (Village 7)	221
11:00-12:30	Implementing exercise and a healthy diet	Chisinau (Village 4)	219
16:30-18:00	Heart failure with mid-range ejection fraction - What does it mean for clinical practice?	Lisbon (Village 9)	281

Tuesday 29 August

08:30-10:00	Atrial fibrillation	Valetta (Village 5)	319
11:00-12:30	Bringing STEMI guidelines to the bedside	Bucharest (Village 8)	337
14:00-15:30	Hypertension and heart failure in valvular disease	Astana (Village 2)	373
16:30-18:00	Treating valves correctly	Luxembourg (Village 6)	390

ESC CARDIOLOGY QUIZ

A tradition now at ESC Congress! Follow three teams from internationally renowned institutions in a tense competition as they answer guidelines-related questions across all topics in cardiology, actively looking for participation and interaction with the audience.

Tuesday 29 August

16:30-18:00

Spotlight Stage 384



Team from Barcelona



Team from Heidelberg



Team from Saint Petersburg

SATURDAY MINI-QUIZ

Refresh your knowledge on key messages from ESC Clinical Practice Guidelines that have stood the test of time. Two teams from My NCS@ESC sessions will compete.

Come to the “Hub” on Saturday from 09:00 and support your favourite team.

MEET THE TRIALISTS

Your chance to interact directly with the presenters of some of the best Hot Lines!

Sunday 27 August

Spotlight Stage

- **15:40-16:00** **CANTOS** - The Canakinumab Anti-Inflammatory Thrombosis Outcomes Study.
- **16:05-16:25** **COMPASS** - Cardiovascular Outcomes for People using Anticoagulation Strategies - Primary Results.

Dali (The Hub)

- **15:40-16:00** **RACE 3** - Routine versus aggressive upstream rhythm control for prevention of early atrial fibrillation in heart failure.
- **16:05-16:25** **CASTLE-AF** - Catheter ablation versus standard conventional treatment in patients with left ventricular dysfunction and atrial fibrillation.

Monday 28 August

Dali (The Hub)

- **15:40-16:00** **EMANATE** - Apixaban vs conventional therapy in anticoagulation-naive patients with atrial fibrillation undergoing cardioversion.
- **16:05-16:25** **IMPACT-AF** - An international multicenter clustered randomized trial to IMProve treatment with oral AntiCoagulanTs in Atrial Fibrillation.

Tuesday 29 August

Spotlight Stage

- **10:10-10:30** **CAPTAF** - Catheter Ablation compared with optimized Pharmacological Therapy for Atrial Fibrillation, a randomized multicentre study of quality of life and implantable cardiac monitoring after 12 month follow-up.
- **10:35-10:55** **HPS3/TIMI55-REVEAL** - Clinical effects of anacetrapib in people with established vascular disease: Results of the Randomized Evaluation of the Effects of Anacetrapib through Lipid-modification.

Dali (The Hub)

- **10:10-10:30** **EMPATHY** - Does intensive treat-to-target LDL-C lowering therapy using statin in patients of diabetic retinopathy reduce cardiovascular events?
- **10:35-10:55** **PRECISION-ABPM** - Prospective Randomized Evaluation of Celecoxib Integrated Safety versus Ibuprofen or Naproxen Ambulatory Blood Pressure Measurement.

LATE-BREAKING SCIENCE

G75

ESC Congress is the place to discuss the findings of the latest clinical trial results, clinical trial updates and registries

HOT LINE

Every presentation will be followed by experts in intervention to highlight the relevance of the data presented, to provide clear take home messages and to place the recent trials into perspective.

These sessions take place in room **Barcelona (Main Auditorium)**

	page
Sunday 27 August	
11:00-12:30 Late-Breaking Clinical Trials 1	96
Monday 28 August	
11:00-12:30 Late-Breaking Clinical Trials 2	213
14:00-15:30 Late-Breaking Clinical Trials 3	256
Tuesday 29 August	
08:30-10:00 Late-Breaking Clinical Trials 4	313

LATE-BREAKING SCIENCE

Saturday 26 August		
13:30-15:00 Late-Breaking Science in PCI 1	Dali (The Hub)	40
Sunday 27 August		
14:00-15:30 Late-Breaking Science in PCI 2	Spotlight Stage	139
Monday 28 August		
08:30-10:00 Late-Breaking Science in Heart Failure	Warsaw (Village 9)	206
08:30-10:00 Basic and Translational Science Hot Line 1	Fira (Village 1)	201
11:00-12:30 Late-Breaking Science in Imaging	Beirut (Village 3)	218
14:00-15:30 Clinical Trial Update 1	Dali (The Hub)	257
Tuesday 29 August		
08:30-10:00 Basic and Translational Science Hot Line 2	Dublin (Village 1)	317
11:00-12:30 Hot Line: Late Breaking Registry Results 1	Barcelona (Main Auditorium)	328
14:00-15:30 Hot Line: Late Breaking Registry Results 2	Barcelona (Main Auditorium)	368
16:30-18:00 Clinical Trial Update 2	Dali (The Hub)	384

ESC REGISTRIES

EURObservation Research Programme (EORP)

Sunday 27 August		
10:05-10:55 Late-Breaking ESC Registry Results	Valetta (Village 5)	89
16:30-18:00 Valuable lessons on frequent diseases - Insights from ESC registries	Goya (The Hub)	156

NEW! Late-Breaking Science Posters

A selection of late-breaking science will be presented as poster and give the unique opportunity to engage with trialists with dedicated viewing times for exchange and discussions

ESC GOLD MEDALISTS

W Wijns, FESC (Brussels, BE)

ESCTV Stage 212

Hear about his professional journey and scientific experiences.

What made him do it? What lessons has he learned?

And what may inspire you?

A DeMaria (La Jolla, US)

will give the "ESC Awards Inspirational Career Lecture" during the Awards Ceremony taking place in Dali (The Hub) on Monday 28 August at 18:00

Also not to be missed

Eric Topol, MD, Director, Scripps Translational Science Institute - Professor of Genomics, The Scripps Research Institute, will give a keynote presentation during the Inaugural session on Saturday: The Future of Cardiovascular Medicine in the Digital Era.

A Tribute to Andreas Grüntzig

Presented by his colleagues, friends and family member

Sunday 27 August 15:30 - 17:00

ESCTV Stage 149

ESC NAMED LECTURES

The Named Lectures take place in the corresponding villages on Sunday 27 August.

This year the Named Lecture is followed by the Young Investigator Awards session on the related topic.

08:30	ESC Geoffrey Rose Lecture on Population Sciences <i>Can we eradicate premature cardiovascular deaths?</i> S Capewell, FESC (Liverpool, UK)	Vilnius (Village 4)	86
14:00	ESC William Harvey Lecture on Basic Science <i>PCSK9: a journey of discovery from genetics to clinical trials</i> C Boileau (Paris, FR)	Fira (Village 1)	144
14:00	ESC Andreas Grüntzig Lecture on Interventional Cardiology <i>The revolution in the treatment of patients with aortic stenosis</i> MC Morice, FESC (Massy, FR)	Podgorica (Village 6)	147
14:00	ESC Rene Laennec Lecture on Clinical Cardiology <i>Adipose tissue and myocardial ageing</i> GA Derumeaux, FESC (Creteil, FR)	Valetta (Village 5)	146

JOINT SESSIONS

G77

Joint programming of the ESC with National Cardiac Societies or other professional organisations, to provide specific insight into clinically relevant questions and a wide spectrum of views on cardiac care. The ESC takes this opportunity to thank all its partners for the fruitful collaboration. This partnership broadens scientific knowledge thanks to the participation of professionals from different specialised disciplines.

JOINT SESSIONS WITH AFFILIATED CARDIAC SOCIETIES & SISTER SOCIETIES

- | | | | page |
|---|--|--|----------------------------|
| — | American College of Cardiology (ACC) | | |
| | Monday 28 August | | |
| | 08:30-10:00 | Multi-modality imaging in heart failure | Beirut (Village 3) 202 |
| | 11:00-12:30 | Coronary artery angioplasty: lessons learned from the past 40 years and a look into the future | Bishkek (Village 6) 220 |
| — | American Heart Association (AHA) | | |
| | Sunday 27 August | | |
| | 16:30-18:00 | Management of heart failure - Thinking ahead | Warsaw (Village 9) 164 |
| | Monday 28 August | | |
| | 14:00-15:30 | Towards a unified theory for prevention | Miro (The Hub) 258 |
| — | Argentine Society of Cardiology (ASC) | | |
| | Sunday 27 August | | |
| | 14:00-15:30 | Severe aortic stenosis in intermediate-risk patients | Rabat (Village 7) 147 |
| — | Asian Pacific Society of Cardiology (APSC) | | |
| | Saturday 26 August | | |
| | 13:30-15:00 | Challenges in complex PCI | Bishkek (Village 6) 47 |
| — | Brazilian Society of Cardiology (BSC) | | |
| | Monday 28 August | | |
| | 08:30-10:00 | Improving cardiovascular outcome managing hypertension | Astana (Village 2) 202 |
| — | Canadian Cardiac Society (CCS) | | |
| | Sunday 27 August | | |
| | 16:30-18:00 | Recanalisation of Chronic Total coronary Occlusions: transatlantic tips, tricks and insights | Luxembourg (Village 6) 162 |
| — | Cardiac Society of Australia and New Zealand (CSANZ) | | |
| | Saturday 26 August | | |
| | 13:30-15:00 | An update on the clinical management of STEMI | Bucharest (Village 8) 48 |
| — | Cardiological Society of India (CSI) | | |
| | Sunday 27 August | | |
| | 11:00-12:30 | Practical aspects of care in Non-ST-Elevation-ACS | Miro (The Hub) 98 |
| — | Chinese Heart Foundation/ Great Wall International Congress of Cardiology (GWICC) | | |
| | Sunday 27 August | | |
| | 08:30-10:00 | Percutaneous interventional therapies for pulmonary hypertension | Oslo (Village 7) 87 |
| — | Chinese Society of Cardiology (CSC) | | |
| | Saturday 26 August | | |
| | 11:00-12:30 | Heart and brain interaction | Vilnius (Village 4) 30 |

- | | | page |
|---|---|-------------|
| — | Interamerican Society of Cardiology (IASC)
Tuesday 29 August
08:30-10:00 Controversies in the management of acute coronary syndromes Bucharest (Village 8) | 321 |
| — | Japanese Circulation Society (JCS)
Tuesday 29 August
08:30-10:00 Interventional cardiology Luxembourg (Village 6)
11:00-12:30 Heart failure in diabetes: prevention and management Vilnius (Village 4) | 320
335 |
| — | Korean Society of Cardiology (KSC)
Tuesday 29 August
11:00-12:30 Stable angina pectoris: to revascularise or not Podgorica (Village 6) | 336 |
| — | Mexican Society of Cardiology (MSC)
Tuesday 29 August
14:00-15:30 Coronary intervention for ischaemic heart disease Miro (The Hub) | 369 |
| — | South African Heart Association (SAHeart)
Sunday 27 August
11:00-12:30 Rheumatic heart disease 2017 Rabat (Village 7) | 104 |
| — | World Heart Federation (WHF)
Sunday 27 August
11:00-12:30 Risk factor profiling in resource-poor settings Chisinau (Village 4) | 102 |

JOINT SESSIONS WITH OTHER MEDICAL ORGANISATIONS

- | | | |
|---|---|-----|
| — | Association for European Cardiovascular Pathology (AECV)
Sunday 27 August
08:30-10:00 Acute aortic dissection: from pathology to the clinic Podgorica (Village 6) | 87 |
| — | Association for European Paediatric Cardiology (AEPD)
Tuesday 29 August
14:00-15:30 Coronary arteries after the arterial switch operation Rabat (Village 7) | 376 |
| — | European Association for Cardio-Thoracic Surgery (EACTS)
Tuesday 29 August
08:30-10:00 Contemporary management of chronic thromboembolic pulmonary hypertension Rabat (Village 7) | 321 |
| — | European Association for the Study of Diabetes (EASD)
Sunday 27 August
14:00-15:30 Treatment of type 2 diabetes - Important new aspects for the cardiologist Pristina (Village 2) | 144 |
| — | European Atherosclerosis Society (EAS)
Saturday 26 August
13:30-15:00 Reducing the danger from atherosclerotic plaque Dublin (Village 1) | 44 |
| — | European Respiratory Society (ERS)
Monday 28 August
16:30-18:00 Open questions in pulmonary vascular diseases Rabat (Village 7) | 280 |
| — | European Resuscitation Council (ERC)
Sunday 27 August
14:00-15:30 Cardiac arrest 2017 Bucharest (Village 8) | 148 |

JOINT SESSIONS


G79


- | | | page |
|---|--|--------------------------|
| — | European Society for Organ Transplantation (ESOT)
Sunday 27 August
08:30-10:00 Advanced heart failure - When drugs alone are not enough: a case-based approach | Miro (The Hub) 82 |
| — | European Society of Human Genetics (ESHG)
Sunday 27 August
08:30-10:00 Genetics of sudden cardiac death | Skopje (Village 5) 86 |
| — | European Society of Hypertension (ESH)
Monday 28 August
11:00-12:30 Challenges in the management of hypertension | Astana (Village 2) 218 |
| — | European Stroke Conference (ESC)
Sunday 27 August
11:00-12:30 Diagnosis and management of stroke in specific patient subsets | Bishkek (Village 6) 103 |
| — | European Stroke Organisation (ESO)
Sunday 27 August
14:00-15:30 Etiologic approach to stroke prevention and treatment | Bishkek (Village 6) 146 |
| — | International Society for Adult Congenital Heart Disease (ISACHD)
Tuesday 29 August
11:00-12:30 Answers to tough questions in adult congenital heart disease | Rabat (Village 7) 336 |
| — | International Society for Cardiovascular Translational Research (ISCTR)
Sunday 27 August
14:00-15:30 Developments in cardiovascular translational research | Goya (The Hub) 140 |
| — | International Society for Heart Research (ISHR)
Tuesday 29 August
14:00-15:30 Cardiac fibroblasts - Essential players in cardiac health and disease | Dublin (Village 1) 372 |
| — | International Society of Cardiovascular Pharmacotherapy (ISCP)
Tuesday 29 August
11:00-12:30 Therapeutic challenges in women | Pristina (Village 2) 334 |
| — | International Society of Hypertension (ISH)
Sunday 27 August
08:30-10:00 Population-wide blood pressure lowering - Theory and practice | Chisinau (Village 4) 85 |
| — | World Health Organization (WHO)
Tuesday 29 August
14:00-15:30 Raising standards in cardiovascular care and planning | Dali (The Hub) 368 |


OTHER JOINT SESSIONS


- | | | |
|---|---|--------------------|
| — | Cardiology Section of the Union of European Medical Specialists (UEMS)
Tuesday 29 August
16:30-18:00 European certification in cardiology: present & future | Miro (The Hub) 385 |
| — | European Commission
Monday 28 August
16:30-18:00 Horizon 2020 and beyond - EU funding opportunities for cardiovascular research | Miro (The Hub) 273 |


ESC ASSOCIATIONS


- 

Acute Cardiovascular Care Association (ACCA) page
Monday 28 August
 14:00-15:30 Acute cardiac care in elderly patients Tripoli (Village 8) 264
- 

European Association of Cardiovascular Imaging (EACVI)
Tuesday 29 August
 14:00-15:30 Role of imaging in common clinical scenarios -
 Update on practice recommendations Beirut (Village 3) 374
- 

European Association of Preventive Cardiology (EAPC)
Tuesday 29 August
 14:00-15:30 The year in prevention: scientific highlights Chisinau (Village 4) 374
- 

European Association of Percutaneous Cardiovascular Interventions (EAPCI)
Monday 28 August
 16:30-18:00 40 years of percutaneous coronary interventions
 and beyond Bishkek (Village 6) 279
- 

European Heart Rhythm Association (EHRA)
Tuesday 29 August
 14:00-15:30 Fighting sudden cardiac death: challenges and
 new strategies Skopje (Village 5) 375
- 

Heart Failure Association of the ESC (HFA)
Monday 28 August
 16:30-18:00 The future of heart failure therapy Warsaw (Village 9) 281

ESC COUNCILS

- Council on Basic Cardiovascular Science (CBCS)**
Monday 28 August
 11:00-12:30 Mechanisms of heart failure with preserved
 ejection fraction - Implications for treatment Dublin (Village 1) 217
- Council on Hypertension**
Saturday 26 August
 11:00-12:30 The year in hypertension - Hot papers 2016/2017 Astana (Village 2) 29
- Council on Stroke**
Sunday 27 August
 08:30-10:00 What cardiologists need to know about stroke Luxembourg (Village 6) 87

The ESC Council for Cardiology Practice, the ESC Council on Cardiovascular Primary Care & the ESC Council on Cardiovascular Nursing and Allied Professions have organised the general cardiology track (see page G62)

JOURNAL SESSIONS

G8I

CARDIOVASCULAR RESEARCH JOURNAL

Monday 28 August

page

14:00-15:30 Dissecting the secretome in the "omics" era Fira (Village 1) 261

EUROPEAN HEART JOURNAL (EHJ)

Sessions organised by Professor T Luscher, Editor in Chief of EHJ, and his team.

The audience will be provided with the opportunity to get a closer look at the Journal, including some of the best papers that were published over the last year. Touch base with the editors and authors of some seminal papers and make suggestions to the editorial team.

Sunday 27 August

10:10-10:50 The European Heart Journal's Year in Cardiology: from prevention to intervention Spotlight Stage 94

Monday 28 August

10:10-10:50 The European Heart Journal's Year in Cardiology: heart failure and valvular heart disease Spotlight Stage 211

Tuesday 29 August

15:40-16:20 From submission to sharing: how to publish your best articles in the European Heart Journal and the New England Journal of Medicine Dali (The Hub) 382

OTHER JOURNALS

Circulation

Sunday 27 August

14:00-15:30 The new Circulation: expanding frontiers Miro (The Hub) 140

The New England Journal of Medicine

Sunday 27 August

16:30-18:00 Highlights from the New England Journal of Medicine: editors' choice Dali (The Hub) 156

The Lancet

Monday 28 August

08:30-10:00 Percutaneous cardiovascular interventions Dali (The Hub) 197

JAMA and JAMA Cardiology

Monday 28 August

11:00-12:30 Best cardiovascular research in JAMA and JAMA Cardiology with insights from the editors Gaudi (The Hub) 214

Journal of American College of Cardiology

Monday 28 August

16:30-18:00 Journal of the American College of Cardiology's Year in Cardiology: from intervention to prevention Gaudi (The Hub) 273

ABSTRACTS

Original research presentations

Advances in Science

In each Village

The best abstracts combined with key opinion leader perspectives on the progress in science

Rapid Fire Abstract Sessions

Fast-paced and interactive sessions held in The Hub (Picasso) & The Agoras
Key messages of ten abstracts followed by discussions on the research

Award Sessions

Sunday 27 August in the Villages

Selected finalists in competition for an ESC Award

Let's meet in the Poster Area during morning and afternoon breaks

Saturday from 12:30 to 13:30

Sunday to Tuesday from 10:00 to 11:00 and from 15:30 to 16:30

- **Posters**
On display for half a day by topic
An opportunity to network with your international peers
- **Moderated Posters**
Presented on large plasma screens, moderated by experts in the field
Presenters are in competition for an ESC Award
- **Best Posters**
Join the expert animating discussions on top score posters by topic
- **New! Late-Breaking Science Posters**
Engage and exchange with trialists during dedicated viewing times

See you all at the **AWARDS CEREMONY** on Monday 28 August at 18:00 in Dali (The Hub), to congratulate winners throughout the abstract programme.
Featuring the «ESC Awards Inspirational Career Lecture»
by Gold Medalist A DeMaria (La Jolla, US)

ABSTRACT SESSIONS

G83

During and after the congress, abstracts will be published in:

- The “ESC 2017” mobile app available on the market stores
- The online Scientific Programme and Planner (SP&P)
- ESC Congress 365, your free access to ESC Congress content all year long (Several format available, original abstract submission, presentation slides, e-poster)
- The European Heart Journal – Volume 37 – Abstract supplement

ADVANCES IN SCIENCE

The combination of original research abstracts with expert review and commentary on related topics.

These sessions features the top-rated abstracts in each topic, linking recent results with clinical care to guide future scientific investigation.

RAPID FIRE ABSTRACTS

These fast-paced and interactive sessions will present key messages of ten original research abstracts.

Each presentation will be followed by a Questions & Answers discussion with the experts' chairs and the audience.

YOUNG INVESTIGATOR AWARDS

Selected for the outstanding quality of their work, four Young Investigators will present their original research in front of a jury as they compete for prestigious ESC Awards.

The ESC will grant the winner with a prize of €2 000 and finalists will each receive a prize of €1 000.

NEW! ESC Named Lectures will be held before their related Young Investigator Awards Session.

Do not miss the opportunity to listen to renowned leaders in the field of cardiology as an inspiration for the younger generation who will compete for a prestigious ESC Award.

Sunday 27 August

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14:00-15:30	Clinical Science	Valetta (Village 5)	146
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→ Also not to be missed

Sunday 27 August

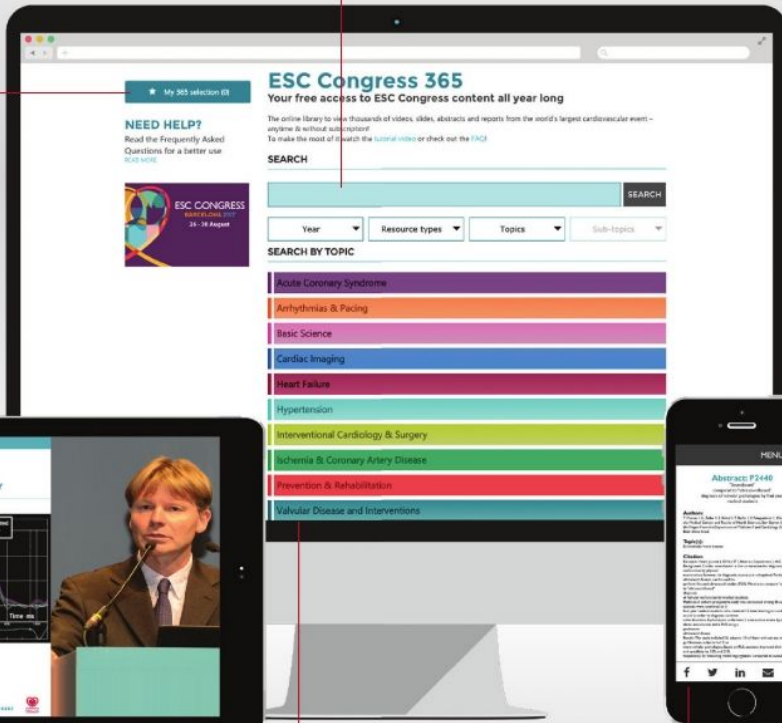
11:00-12:30	Nursing and Allied Health Professions Investigator Award	Vilnius (Village 4)	102
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POSTER SESSIONS SCHEDULE

Saturday 26 August

Poster session	11:00-16:00
Meet the Poster Presenters	12:30-13:30
Best Poster viewing time	12:30-13:30
Moderated Poster session	12:30-13:30

From Sunday to Tuesday

	Morning	Afternoon
Poster session	08:30-12:30	14:00-18:00
Meet the Poster Presenters	10:00-11:00	15:30-16:30
Best Poster viewing time	10:00-11:00	15:30-16:30
Moderated Poster session	10:00-11:00	15:30-16:30

BEST POSTERS

Best Posters will be acknowledged for each topic at each session on plasma screens. A discussant will visit the presenters during the coffee breaks to meet and exchange. Make sure to stop by the Best Poster screens and engage with presenters and expert discussants.

MODERATED POSTERS

These sessions are composed of seven original top rated abstracts presented on large plasma screens. The research will be presented and discussed by the first author and two moderators during the coffee breaks.

The audience is welcome to join in the discussion.

Presenters are in competition for the "Best Moderated Poster" to win a free registration for next year's ESC Congress.

POSTERS

Seven different sessions from Saturday until Tuesday evening.

Visual display of the abstracts in a topic dedicated area. Presenters will be by their poster during the dedicated viewing time to discuss their research with the visiting audience.

NEW! Late-Breaking Science Posters

A selection of late-breaking science will be presented as poster and give the unique opportunity to engage with trialists with dedicated viewing times for exchange and discussions.

Don't miss the **Awards Ceremony on Monday 28 August at 18:00 in Dali (The Hub)** to congratulate the winners throughout the abstract programme.

NEW in 2017 - We invite all delegates to attend the "ESC Awards Inspirational Career Lecture" given by ESC 2017 Gold Medalist: A DeMaria (La Jolla, US).

SATELLITE SYMPOSIA

Cooperation between clinicians, researchers and the pharmaceutical and technical industries has significantly contributed to a better understanding and management of patients with cardiovascular diseases. This is reflected in a series of Satellite Symposia that will offer you an in-depth view of scientific progress and research in cardiovascular care.

These sessions are the perfect forum to learn and exchange on **the latest scientific information and developments from industry.**

SATELLITE SYMPOSIA - EXPERTS ON THE SPOT

These sessions provide delegates attending or interested in Satellite Symposia with a **further opportunity to question and exchange with topic experts** in a concise and interactive format on the session content.

These short style sessions are arranged in The Hub located at a prime location in the Congress Centre and designed to ensure experts interact with delegates.

HANDS-ON TUTORIALS

Hands-On Tutorials offers delegates a unique opportunity for practical training and hands-on learning from industry experts in an intimate setting, allowing them to address specific issues essential to their daily practice. Delegates will take home practical techniques and advice from the experts on the application of the latest equipment, devices and therapies relevant to their practice.

Hands-On Tutorials are organised in state-of-the-art temporary rooms located in the vicinity of the exhibition.

For details on the session programmes, please refer to the Scientific Programme daily sections, the online Scientific Programme & Planner (SP&P) or the "ESC 2017" Mobile App.

GUIDELINES FOR SPEAKERS

G87

Declaration Of Interest (DOI)

The existence of potential conflicts of interest does not necessarily indicate a bias. However it is our ethical obligation to inform participants so that they are made aware of any relationship that might cause unintentional bias.

A potential conflict of interest may arise from various relationships, past or present, such as employment, consultancy, investments and stock ownership, funding for research, family relationship etc.

The Congress Programme Committee requests:

- Speakers/Abstract Presenters to declare any potential conflict of interest regarding their current presentation on their first slide.
- Chairpersons/Discussants/Judges to declare any potential conflict of interest regarding the topics of the presentations during the session on their first slide (if applicable) or orally at the beginning of the session.
- Poster Presenters to disclose any potential conflict of interest regarding their current poster presentation at the bottom of their poster.

This will allow the audience to take potential conflicts of interest into account when assessing the objectivity of the presentation.



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Focus on CAD & ACS

Focus on Arrhythmias

Focus on Interventions & Peripheral Circulation

Main Edition

ESC Guidelines 2017 - AMI-STEMI

The Most Recent Developments in the Management of Arrhythmias

ESC Guidelines 2017 - Peripheral Arterial Diseases

Overview of the 2017 ESC Clinical Practice Guidelines

The European Society of Cardiology presents new guidelines developed by expert task forces and peer reviewers, covering AMI-STEMI, focused update on dual anti-platelet therapy, peripheral artery disease and valvular heart disease. These guidelines summarise all the available evidence on the topics, providing a valuable resource for practicing clinicians.

Also: 40 Years of PCI Impact on Clinical Practice

ESC European Society of Cardiology

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State-of-the-Art Lipid Treatment in Coronary Patients in 2017

Tuesday, 29 August 2017

12:45 – 13:45

Satellite Symposium
Sponsored by MSD

CO-CHAIRS

Philip Barter

Immediate Past President
International Atherosclerosis Society
Professor
School of Medical Sciences
University of New South Wales
Sydney, Australia

Christie M. Ballantyne

Vice Chair of Research for the
Department of Medicine
Chief of the Section of Cardiology
Chief of the Section of Cardiovascular
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Investigator at the TIMI Study Group
Boston, Massachusetts, USA

Eugene Braunwald

Distinguished Hersey Professor of
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Founding Chairman
TIMI Study Group
Brigham and Women's Hospital
Boston, Massachusetts, USA

François Mach

Head of Cardiology Department
Geneva University Hospital
Director of Cardiovascular Basic
Research
Geneva Faculty of Medicine
Geneva, Switzerland

Fira de Barcelona Gran Via
Beirut, Village 3
Barcelona, Spain

Co-Chairs: Philip Barter (Australia)
Christie M. Ballantyne (USA)

AGENDA

12:45 – 12:55	A Clinician's Perspective on Recent Guidelines in Clinical Practice	Marc Bonaca
12:55 – 13:05	State-of-the-Art Lipid-Lowering Combination Therapies	François Mach
13:05 – 13:25	Emerging Science: Recent Evidence and Science on the Horizon	Eugene Braunwald
13:25 – 13:32	Successes and Challenges in Clinical Practice	Christie Ballantyne
13:32 – 13:45	Q&A	Faculty

Recent Results in Clinical Trials of Blood Cholesterol Lowering

Tuesday, 29 August 2017

15:45 – 16:15

Satellite Symposium –
Expert on the Spot
Sponsored by MSD

Fira de Barcelona Gran Via
Room: Picasso, The Hub
Barcelona, Spain

Moderator: Heinz Drexel (Austria)

MODERATOR

Heinz Drexel

Full Professor of Medicine
Vorarlberg Institute for Vascular
Investigation and Treatment (VIVIT)
Feldkirch, Austria
Private University of the Principality
of Liechtenstein
Triesen, Liechtenstein
Drexel University College of Medicine
Philadelphia, Pennsylvania, USA
Vice President, ESC Working Group,
“Cardiovascular Pharmacotherapy”

FACULTY

Eugene Braunwald

Distinguished Hersey Professor of
Medicine
Harvard Medical School
Founding Chairman
TIMI Study Group
Brigham and Women’s Hospital
Boston, Massachusetts, USA

Rory Collins

BHF Professor of Medicine and
Epidemiology
Co-Director, Clinical Trial Service
Unit (CTSU)
Head, Nuffield Department of
Population Health
Medical Sciences Division
Oxford, UK
University of Oxford
Oxford, UK

AGENDA

15:45 – 16:08	<ul style="list-style-type: none"> • Reflecting on 20 Years of Cholesterol Research • The Pivotal Role of ApoB Lipoproteins in the Development of Major Cardiovascular Events • The Outlook of Current and Future Lipid-Modifying Therapy, and Enhanced Patient Identification 	<p>Heinz Drexel Eugene Braunwald Rory Collins</p>
16:08 – 16:15	Audience Q&A	Faculty

ESC CONGRESS

BARCELONA 2017

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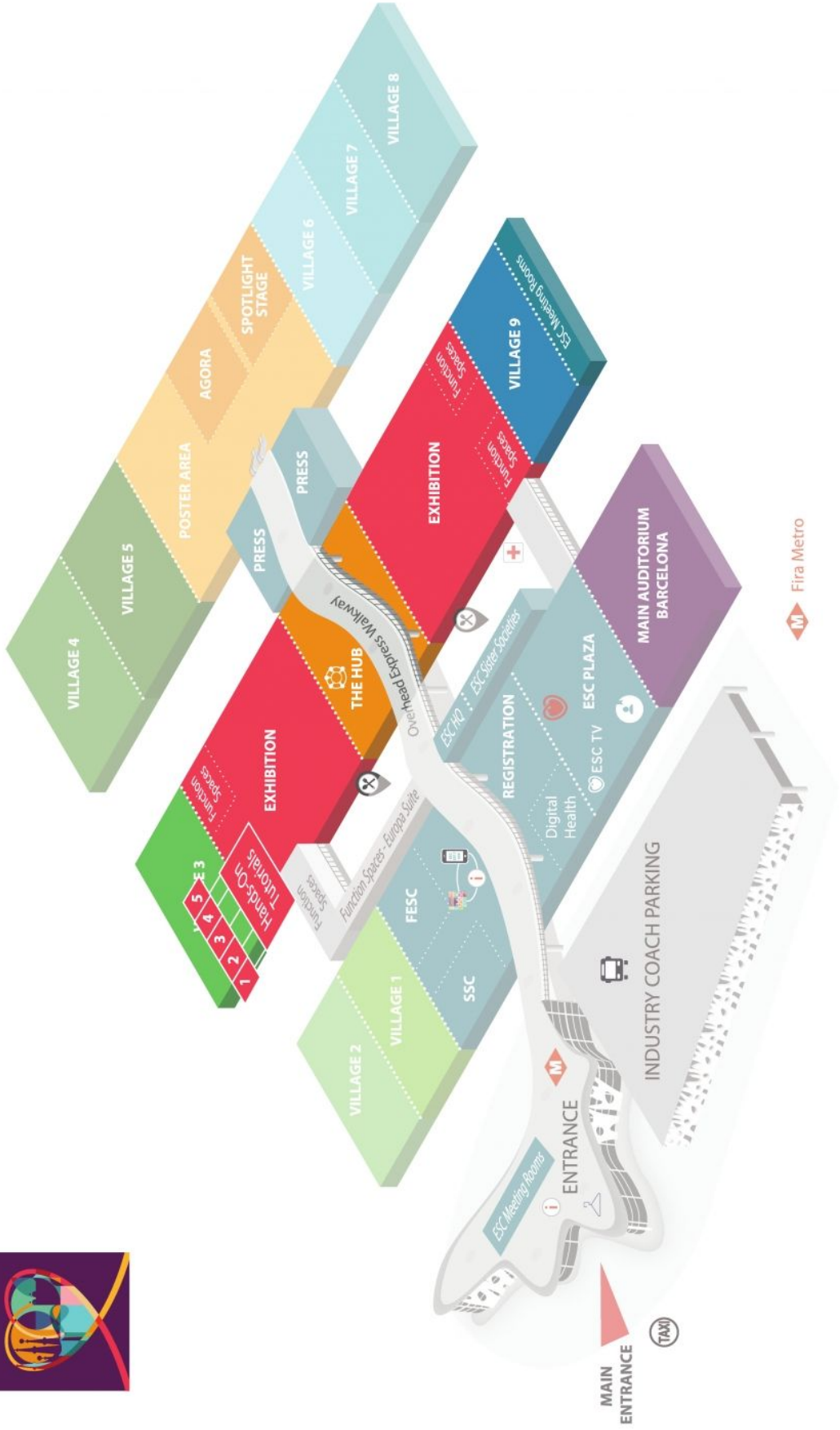
HANDS-ON TUTORIALS

Devices, Imaging, Clinical Practice

Dedicated programmes from experts
on the practical application
of knowledge and skills

**Sign up now in the Hands-On Tutorial room
or at the Sponsor's Stand
Places are limited!**





Please note that places in Hands-On sessions are limited.
Registration is recommended on the sponsor booth or in front of the Hands-On Rooms.

13:00–14:00 | Hands-On Room 3 - Exhibition

Computed tomography myocardial perfusion in clinical practice

Sponsored by Toshiba Medical Systems Europe

Presenter: A.J.H.A. Scholte (Leiden, NL)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

14:00–15:30 | Hands-On Room 4 - Exhibition

Computed tomography (CT) for guiding structural heart disease interventions

Sponsored by Siemens Healthineers

Presenter: M. Marwan (Erlangen, DE)

Learning objectives:

Pre-procedural imaging is essential for successful planning and performance of several cardiac interventions. Cardiac CT is a non-invasive imaging modality capable of providing precise information required for different coronary and non-coronary interventions. The role of cardiac CT for the guidance of different cardiac interventions e.g. TAVI, percutaneous management of paravalvular leaks and LAA occlusion will be discussed in this session. A presentation of clinical cases completes this session.

16:00–17:30 | Hands-On Room 4 - Exhibition

Learned pattern recognition technology in transthoracic echocardiography (TTE) and transesophageal echocardiogram (TEE) to deliver measurement reproducibility and accelerate workflow

Sponsored by Siemens Healthineers

Presenter: N. Merke (Berlin, DE)

Learning objectives:

Cardiac biometrics are routinely measured from echocardiograms to provide quantitative analysis of the human heart. This workshop will show how to use learned pattern recognition to provide consistent and reproducible measurements of spectral Doppler and the left ventricle in both 2D and 3D all performed with speed and fidelity to advance the practice of echocardiography.

Please note that places in Hands-On sessions are limited.
Registration is recommended on the sponsor booth or in front of the Hands-On Rooms.

09:00–09:30 | Hands-On Room 2 - Exhibition

Repetitive use of inodilators in advanced heart failure - The scientific evidence in literature

Sponsored by ORION PHARMA

Presenter: J. Comin-Colet (Barcelona, ES)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

09:00–10:30 | Hands-On Room 4 - Exhibition

Cardiac computed tomography (CT) imaging for myocardial ischemia - CT dynamic myocardial perfusion

Sponsored by Siemens Healthineers

Presenter: M. Marwan (Erlangen, DE)

Learning objectives:

Coronary CT angiography (cCTA) is well-established in diagnosing patients with significant coronary stenosis. However, there are many patients where the question of the hemodynamic significance of the stenosis remains. CT dynamic myocardial perfusion imaging offers the possibility to identify patients with myocardial ischemia that would benefit coronary revascularization. In this Hands-On Tutorial you will learn about our newest dose saving techniques for both cCTA and the main indications for CT dynamic myocardial perfusion imaging, providing you with valuable tips and tricks to optimize your patient care and clinical workflow. A presentation of clinical cases completes this session.

09:00–10:30 | Hands-On Room 5 - Exhibition

Why is global longitudinal strain important in patients with heart failure due to cardiotoxicity or cardiomyopathies?

Sponsored by Philips

Presenter: A. Apor (Budapest, HU)

Learning objectives:

More and more often oncologists ask cardiologists if they see any signs of deterioration of the heart function that may result from chemo or radiotherapy. These Hands-On Tutorial sessions demonstrate how global longitudinal strain can help answer this question and optimize the oncological treatment.

09:30–10:00 | Hands-On Room 2 - Exhibition

Repetitive use of inodilators in advanced heart failure - The clinical practice in advanced heart failure

Sponsored by ORION PHARMA

Presenter: J.F. Delgado Jimenez (Madrid, ES)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

10:00–11:00 | Hands-On Room 1 - Exhibition

The diagnosis of sleep apnea, why cardiologists should do it?

Sponsored by ResMed

Presenter: E. Thunstrom (Pixbo, SE)

Learning objectives:

Participants will use clinical guidelines and clinical cases to learn about the diagnosis of sleep-disordered breathing (SDB). The session will cover the impact of SDB on patients with cardiovascular diseases, tools that cardiologists can use to screen their patients for SDB. Hands-on learning will help participants to gain a practical understanding of sleep testing solutions for screening and diagnosis.

10:00–11:00 | Hands-On Room 3 - Exhibition**Clinical cases using 2D and 3D ultrasound imaging techniques in the daily practice****Sponsored by Toshiba Medical Systems Europe***Presenter: H.-J. Nesser (Linz, AT)***Learning objectives:**

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017.

Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided.

The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

11:00–11:30 | Hands-On Room 2 - Exhibition**Inotropes or inodilators in heart failure with reduced ejection fraction: what to use, when and how?****What is available? Evidence and clinical practice****Sponsored by ORION PHARMA***Presenter: R.H.G. Schwinger (Weiden, DE)***Learning objectives:**

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

11:00–12:30 | Hands-On Room 4 - Exhibition**Valves are to flow, as flow is to valves... Clinical benefits of advancements in 3D TEE from visualization to quantification****Sponsored by Siemens Healthineers***Presenter: M. Froehde (Berlin, DE)***Learning objectives:**

In this workshop you will be introduced to techniques for aortic and mitral valve modeling using real-time true-volume transesophageal echocardiography (TEE) data. It will introduce you to capabilities of the Siemens true volume TEE transducer that provides continuous high frame rate volume color Doppler data so you can understand form, function and flow comprehensively without having to make difficult tradeoffs.

11:00–12:00 | Hands-On Room 5 - Exhibition**Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases****Sponsored by Philips***Presenters: J. Necas (Brno, CZ); S. Kovalova (Brno, CZ)***Learning objectives:**

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

11:30–12:00 | Hands-On Room 2 - Exhibition**Inotropes or inodilators in heart failure with reduced ejection fraction (HFrEF): what to use, when and how? What is available? Pros and cons of inodilators. In which patient?****Sponsored by ORION PHARMA***Presenter: D. von Lewinski (Graz, AT)***Learning objectives:**

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

11:30–12:30 | Hands-On Room 3 - Exhibition

**Dedicated workflow for computed tomography transcatheter aortic valve implantation planning
Sponsored by Toshiba Medical Systems Europe**

Presenter: J. Stirrup (London, UK)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

12:30–13:30 | Hands-On Room 5 - Exhibition

**Intravascular ultrasound (IVUS) image interpretation
Sponsored by Philips**

Presenter: J. Rieber (Munich, DE)

Learning objectives:

Attend the session if you want to know:

- How to overcome challenges with IVUS image interpretation.
- How to easily understand what you are seeing.

13:00–13:30 | Hands-On Room 2 - Exhibition

**Inodilators and renal function: how to avoid kidney dysfunction in advanced heart failure -
Cardiorenal syndrome: therapeutic options
Sponsored by ORION PHARMA**

Presenter: M. Kivikko (Espoo, FI)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

13:00–14:00 | Hands-On Room 3 - Exhibition

**Computed tomography fractional flow reserve case review
Sponsored by Toshiba Medical Systems Europe**

Presenter: M.C. De Knegt (Copenhagen, DK)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

13:00–14:30 | Hands-On Room 4 - Exhibition

**Cardiac magnetic resonance imaging in cardiomyopathies
Sponsored by Siemens Healthineers**

Presenter: G. von der Recke (Bonn, DE)

Learning objectives:

This Hands-On Tutorial offers the opportunity to read cardiac magnetic resonance (CMR) studies together with an experienced interpreter. This session focuses on cardiomyopathies and myocarditis. Standard protocols will be demonstrated, including evaluation of cardiac function, and typical delayed enhancement phenomena for specific cardiac diseases (e.g. hypertrophic cardiomyopathy (HCM), dilated cardiomyopathy (DCM), cardiac amyloidosis etc.). Multiple clinical cases will be demonstrated on MR workstations. The participants will be able to read the studies themselves and interpret the findings.

13:30–14:00 | Hands-On Room 2 - Exhibition**Inodilators and renal function: how to avoid kidney dysfunction in advanced heart failure - Proper treatment to avoid kidney dysfunction****Sponsored by ORION PHARMA***Presenter: G. Giannakoulas (Thessaloniki, GR)***Learning objectives:**

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

14:00–15:00 | Hands-On Room 5 - Exhibition**iFR outcome data DEFINE-FLAIR and iFR-SWEDEHEART****Sponsored by Philips***Presenter: J. Rieber (Munich, DE)***Learning objectives:**

Attend the session if you want to:

- Learn more about the comparison of clinical outcomes of patients whose treatment has been guided by iFR vs. those whose treatment has been guided by FFR.
- Learn more in terms of lesions deferred or treated using iFR or FFR in DEFINE-FLAIR and iFR-Swedheart.

15:00–16:00 | Hands-On Room 1 - Exhibition**Sleep apnea, what happens after the diagnosis? What are the therapy options?****Sponsored by ResMed***Presenter: C. Schoebel (Berlin, DE)***Learning objectives:**

Participants will use clinical guidelines and clinical cases to learn about the treatment of sleep-disordered breathing (SDB). The session will cover the impact of SDB on patients with cardiovascular diseases, tools that cardiologists can use to screen their patients for SDB, and the diagnostic and therapeutic options available. Hands-on learning will help participants to gain a practical understanding of the therapy options.

15:00–15:30 | Hands-On Room 2 - Exhibition**Inotropes in acute heart failure: from guidelines to practical use - Therapeutic needs vs available options****Sponsored by ORION PHARMA***Presenter: J. Masip (Barcelona, ES)***Learning objectives:**

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

15:00–16:00 | Hands-On Room 3 - Exhibition**Stress echo: a practical approach using advanced ultrasound techniques****Sponsored by Toshiba Medical Systems Europe***Presenter: M. Zuber (Othmarsingen, CH)***Learning objectives:**

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017.

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The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

15:00–16:30 | Hands-On Room 4 - Exhibition

Learned pattern recognition technology in transthoracic echocardiography (TTE) and transesophageal echocardiogram (TEE) to deliver measurement reproducibility and accelerate workflow

Sponsored by Siemens Healthineers

Presenter: N. Merke (Berlin, DE)

Learning objectives:

Cardiac biometrics are routinely measured from echocardiograms to provide quantitative analysis of the human heart. This workshop will show how to use learned pattern recognition to provide consistent and reproducible measurements of spectral Doppler and the left ventricle in both 2D and 3D all performed with speed and fidelity to advance the practice of echocardiography.

15:30–16:00 | Hands-On Room 2 - Exhibition

Inotropes in acute heart failure: from guidelines to practical use - How to apply the guidelines in clinical practice

Sponsored by ORION PHARMA

Presenter: A. Mebazaa (Paris, FR)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

15:30–16:30 | Hands-On Room 5 - Exhibition

Automatic left heart volumetry, a true differentiator in 3D left ventricle and left atrium quantification

Sponsored by Philips

Presenter: F.F. Faletra (Lugano, CH)

Learning objectives:

There are many studies proving advantages of transthoracic Live 3D echo over 2D echo in the assessment of left heart volumes, ejection fraction and stroke volume. However due to time and training required, until recently transthoracic Live 3D echo has not been widely used for this purpose. During these Hands-On Tutorial sessions clinical experts demonstrate how automated left heart volumetry can provide quick, easy to obtain and robust results.

17:00–17:30 | Hands-On Room 2 - Exhibition

Inotropes and clinical trials: how to select relevant end-points - Composite end-point, still clinically relevant

Sponsored by ORION PHARMA

Presenter: G. Poelzl (Innsbruck, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

17:00–18:00 | Hands-On Room 5 - Exhibition

Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases

Sponsored by Philips

Presenters: J. Necas (Brno, CZ); S. Kovalova (Brno, CZ)

Learning objectives:

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

17:30–18:00 | Hands-On Room 2 - Exhibition

Inotropes and clinical trials: how to select relevant end-points - Hemodynamic and symptoms/quality of life vs mortality

Sponsored by ORION PHARMA

Presenter: J. Altenberger (Großgmain, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

Please note that places in Hands-On sessions are limited.
Registration is recommended on the sponsor booth or in front of the Hands-On Rooms.

09:00–09:30 | Hands-On Room 2 - Exhibition

Repetitive use of inodilators in advanced heart failure - The scientific evidence in literature

Sponsored by ORION PHARMA

Presenter: M. Kivikko (Espoo, FI)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

09:00–10:30 | Hands-On Room 4 - Exhibition

Measure volume flow non-invasively, accurately, reproducibly and quickly in 3D echocardiography

Sponsored by Siemens Healthineers

Presenter: To be announced

Learning objectives:

Stroke volume and cardiac output are measured in every transthoracic echocardiogram (TTE) and some transesophageal echocardiogram (TEE) exams irrespective of disease or diagnosis. This workshop will allow you to leverage true volume colour Doppler from TTE and TEE acquisitions and quantify stroke volume, cardiac output (HR), regurgitant fraction and regurgitant volume non-invasively, accurately, reproducibly and quickly.

09:00–10:30 | Hands-On Room 5 - Exhibition

Why is global longitudinal strain important in patients with heart failure due to cardiotoxicity or cardiomyopathies?

Sponsored by Philips

Presenter: A. Apor (Budapest, HU)

Learning objectives:

More and more often oncologists ask cardiologists if they see any signs of deterioration of the heart function that may result from chemo or radiotherapy. These Hands-On Tutorial sessions demonstrate how global longitudinal strain can help answer this question and optimize the oncological treatment.

09:30–10:00 | Hands-On Room 2 - Exhibition

Repetitive use of inodilators in advanced heart failure - The clinical practice in advanced heart failure

Sponsored by ORION PHARMA

Presenter: G. Giannakoulas (Thessaloniki, GR)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

10:00–11:00 | Hands-On Room 1 - Exhibition

Sleep apnea, what happens after the diagnosis? What are the therapy options?

Sponsored by ResMed

Presenter: C. Schoebel (Berlin, DE)

Learning objectives:

Participants will use clinical guidelines and clinical cases to learn about the treatment of sleep-disordered breathing (SDB). The session will cover the impact of SDB on patients with cardiovascular diseases, tools that cardiologists can use to screen their patients for SDB, and the diagnostic and therapeutic options available. Hands-on learning will help participants to gain a practical understanding of the therapy options.

10:00–11:00 | Hands-On Room 3 - Exhibition**Dedicated workflow for computed tomography transcatheter aortic valve implantation planning
Sponsored by Toshiba Medical Systems Europe**

Presenter: J. Stirrup (London, UK)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

11:00–11:30 | Hands-On Room 2 - Exhibition**Inotropes or inodilators in heart failure with reduced ejection fraction: what to use, when and how?
What is available? Evidence and clinical practice
Sponsored by ORION PHARMA**

Presenter: J. Masip (Barcelona, ES)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

11:00–12:30 | Hands-On Room 4 - Exhibition**Computed tomography (CT) for guiding structural heart disease interventions
Sponsored by Siemens Healthineers**

Presenter: M. Marwan (Erlangen, DE)

Learning objectives:

Pre-procedural imaging is essential for successful planning and performance of several cardiac interventions. Cardiac CT is a non-invasive imaging modality capable of providing precise information required for different coronary and non-coronary interventions. The role of cardiac CT for the guidance of different cardiac interventions e.g. transcatheter aortic valve implantation (TAVI), percutaneous management of paravalvular leaks and left atrial appendage (LAA) occlusion will be discussed in this session. A presentation of clinical cases completes this session.

11:00–12:00 | Hands-On Room 5 - Exhibition**Automatic left heart volumetry, a true differentiator in 3D left ventricle and left atrium quantification
Sponsored by Philips**

Presenter: F.F. Faletra (Lugano, CH)

Learning objectives:

There are many studies proving advantages of transthoracic Live 3D echo over 2D echo in the assessment of left heart volumes, ejection fraction and stroke volume. However due to time and training required, until recently transthoracic Live 3D echo has not been widely used for this purpose. During these Hands-On Tutorial sessions clinical experts demonstrate how automated left heart volumetry can provide quick, easy to obtain and robust results.

11:30–12:00 | Hands-On Room 2 - Exhibition**Inotropes or inodilators in heart failure with reduced ejection fraction: what to use, when and how?
What is available? Pros and cons of inodilators. In which patient?
Sponsored by ORION PHARMA**

Presenter: A. Mebazaa (Paris, FR)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

11:30–12:30 | Hands-On Room 3 - Exhibition

Computed tomography myocardial perfusion in clinical practice
Sponsored by Toshiba Medical Systems Europe

Presenter: A.J.H.A. Scholte (Leiden, NL)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

12:30–13:30 | Hands-On Room 5 - Exhibition

Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases
Sponsored by Philips

Presenters: J. Necas (Brno, CZ); S. Kovalova (Brno, CZ)

Learning objectives:

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

13:00–13:30 | Hands-On Room 2 - Exhibition

**Inodilators and renal function: how to avoid kidney dysfunction in advanced heart failure -
Cardiorenal syndrome: therapeutic options**
Sponsored by ORION PHARMA

Presenter: F. Fedele (Rome, IT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

13:00–14:30 | Hands-On Room 4 - Exhibition

Cardiac magnetic resonance imaging in cardiomyopathies
Sponsored by Siemens Healthineers

Presenter: G. von der Recke (Bonn, DE)

Learning objectives:

This Hands-On Tutorial offers the opportunity to read cardiac magnetic resonance (CMR) studies together with an experienced interpreter. This session focuses on cardiomyopathies and myocarditis. Standard protocols will be demonstrated, including evaluation of cardiac function, and typical delayed enhancement phenomena for specific cardiac diseases (e.g. hypertrophic cardiomyopathy (HCM), dilated cardiomyopathy (DCM), cardiac amyloidosis etc.). Multiple clinical cases will be demonstrated on MR workstations. The participants will be able to read the studies themselves and interpret the findings.

13:30–14:00 | Hands-On Room 2 - Exhibition

**Inodilators and renal function: how to avoid kidney dysfunction in advanced heart failure - Proper
treatment to avoid kidney dysfunction**
Sponsored by ORION PHARMA

Presenter: S. Matskeplishvili (Moscow, RU)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

14:00–15:00 | Hands-On Room 5 - Exhibition**Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases**
Sponsored by Philips*Presenter: F.F. Faletra (Lugano, CH)***Learning objectives:**

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

15:00–16:00 | Hands-On Room 1 - Exhibition**The diagnosis of sleep apnea, why cardiologists should do it?**
Sponsored by ResMed*Presenter: E. Thunstrom (Pixbo, SE)***Learning objectives:**

Participants will use clinical guidelines and clinical cases to learn about the diagnosis of sleep-disordered breathing (SDB). The session will cover the impact of SDB on patients with cardiovascular diseases, tools that cardiologists can use to screen their patients for SDB. Hands-on learning will help participants to gain a practical understanding of sleep testing solutions for screening and diagnosis.

15:00–15:30 | Hands-On Room 2 - Exhibition**Inotropes in acute heart failure: from guidelines to practical use - Therapeutic needs vs available options**
Sponsored by ORION PHARMA*Presenter: V.-P. Harjola (Helsinki, FI)***Learning objectives:**

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

15:00–16:00 | Hands-On Room 3 - Exhibition**The value of 2D and 3D speckle tracking in routine exams**
Sponsored by Toshiba Medical Systems Europe*Presenter: L. Perez De Isla (Madrid, ES)***Learning objectives:**

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

15:00–16:30 | Hands-On Room 4 - Exhibition**Computed tomography cardiac imaging in challenging situations**
Sponsored by Siemens Healthineers*Presenter: M. Marwan (Erlangen, DE)***Learning objectives:**

Nowadays, high-end CTs offer accurate diagnostic imaging especially in the context of challenging situations such as advanced age, progressed disease state or irregular heart rhythm. A significant number of patients are unable to hold their breath, or to hold still at all. This Hands-On Tutorial will provide insight to our newest dose saving techniques and provide valuable tips how to achieve excellent quality in cardiac imaging especially in complex or challenging situations. A presentation of clinical cases completes this session.

15:30–16:00 | Hands-On Room 2 - Exhibition

Inotropes in acute heart failure: from guidelines to practical use - How to apply the guidelines in clinical practice

Sponsored by ORION PHARMA

Presenter: J.T. Parissis (Athens, GR)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

15:30–16:30 | Hands-On Room 5 - Exhibition

Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases

Sponsored by Philips

Presenters: J. Necas (Brno, CZ); S. Kovalova (Brno, CZ)

Learning objectives:

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

17:00–17:30 | Hands-On Room 2 - Exhibition

Inotropes and clinical trials: how to select relevant end-points - Composite end-point, still clinically relevant

Sponsored by ORION PHARMA

Presenter: G. Poelzl (Innsbruck, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

17:00–18:00 | Hands-On Room 5 - Exhibition

Automatic left heart volumetry, a true differentiator in 3D left ventricle and left atrium quantification

Sponsored by Philips

Presenter: A. Apor (Budapest, HU)

Learning objectives:

There are many studies proving advantages of transthoracic Live 3D echo over 2D echo in the assessment of left heart volumes, ejection fraction and stroke volume. However due to time and training required, until recently transthoracic Live 3D echo has not been widely used for this purpose. During these Hands-On Tutorial sessions clinical experts demonstrate how automated left heart volumetry can provide quick, easy to obtain and robust results.

17:30–18:00 | Hands-On Room 2 - Exhibition

Inotropes and clinical trials: how to select relevant end-points - Hemodynamic and symptoms/quality of life vs mortality

Sponsored by ORION PHARMA

Presenter: J. Altenberger (Großgmain, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

Please note that places in Hands-On sessions are limited.
Registration is recommended on the sponsor booth or in front of the Hands-On Rooms.

09:00–09:30 | Hands-On Room 2 - Exhibition

Repetitive use of inodilators in advanced heart failure - The scientific evidence in literature Sponsored by **ORION PHARMA**

Presenter: J. Comin-Colet (Barcelona, ES)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

09:00–10:30 | Hands-On Room 4 - Exhibition

Computed tomography (CT) for guiding structural heart disease interventions Sponsored by **Siemens Healthineers**

Presenter: M. Marwan (Erlangen, DE)

Learning objectives:

Pre-procedural imaging is essential for successful planning and performance of several cardiac interventions. Cardiac CT is a non-invasive imaging modality capable of providing precise information required for different coronary and non-coronary interventions. The role of cardiac CT for the guidance of different cardiac interventions e.g. transcatheter aortic valve implantation (TAVI), percutaneous management of paravalvular leaks and left atrial appendage (LAA) occlusion will be discussed in this session. A presentation of clinical cases completes this session.

09:00–10:30 | Hands-On Room 5 - Exhibition

Why is global longitudinal strain important in patients with heart failure due to cardiotoxicity or cardiomyopathies? Sponsored by **Philips**

Presenter: A. Apor (Budapest, HU)

Learning objectives:

More and more often oncologists ask cardiologists if they see any signs of deterioration of the heart function that may result from chemo or radiotherapy. These Hands-On Tutorial sessions demonstrate how global longitudinal strain can help answer this question and optimize the oncological treatment.

09:30–10:00 | Hands-On Room 2 - Exhibition

Repetitive use of inodilators in advanced heart failure - The clinical practice in advanced heart failure Sponsored by **ORION PHARMA**

Presenter: J.F. Delgado Jimenez (Madrid, ES)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

10:00–11:00 | Hands-On Room 3 - Exhibition

How to use ultrasound for the assessment of cardiac function in athletes Sponsored by **Toshiba Medical Systems Europe**

Presenter: G.E. Pieles (Bristol, UK)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

11:00–11:30 | Hands-On Room 2 - Exhibition

Inotropes or inodilators in heart failure with reduced ejection fraction: what to use, when and how? - What is available? Evidence and clinical practice

Sponsored by ORION PHARMA

Presenter: R.H.G. Schwinger (Weiden, DE)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

11:00–12:30 | Hands-On Room 4 - Exhibition

Cardiac magnetic resonance imaging in ischemic heart disease

Sponsored by Siemens Healthineers

Presenter: G. von der Recke (Bonn, DE)

Learning objectives:

This Hands-On Tutorial offers the opportunity to read cardiac magnetic resonance (CMR) studies together with an experienced interpreter. This session focuses on ischemic heart disease. Current standard protocols will be demonstrated, including evaluation of cardiac function, adenosine stress perfusion, and delayed enhancement. Many practical tips and tricks will be presented, for example, on how to speed up data acquisition or standardized interpretation. Multiple clinical cases will be demonstrated on MR workstations. The participants of this tutorial will be able to read the studies themselves and interpret the findings.

11:00–12:00 | Hands-On Room 5 - Exhibition

Automatic left heart volumetry, a true differentiator in 3D left ventricle and left atrium quantification

Sponsored by Philips

Presenter: F.F. Faletra (Lugano, CH)

Learning objectives:

There are many studies proving advantages of transthoracic Live 3D echo over 2D echo in the assessment of left heart volumes, ejection fraction and stroke volume. However due to time and training required, until recently transthoracic Live 3D echo has not been widely used for this purpose. During these Hands-On Tutorial sessions clinical experts demonstrate how automated left heart volumetry can provide quick, easy to obtain and robust results.

11:30–12:00 | Hands-On Room 2 - Exhibition

Inotropes or inodilators in heart failure with reduced ejection fraction: what to use, when and how? - What is available? Pros and cons of inodilators. In which patient?

Sponsored by ORION PHARMA

Presenter: D. von Lewinski (Graz, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

11:30–12:30 | Hands-On Room 3 - Exhibition

Computed tomography fractional flow reserve case review

Sponsored by Toshiba Medical Systems Europe

Presenter: M.C. De Knegt (Copenhagen, DK)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

12:30–13:30 | Hands-On Room 5 - Exhibition**Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases
Sponsored by Philips**

Presenter: F.F. Faletra (Lugano, CH)

Learning objectives:

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

13:00–13:30 | Hands-On Room 2 - Exhibition**Inodilators and renal function: how to avoid kidney dysfunction in advanced heart failure -
Cardiorenal syndrome: therapeutic options
Sponsored by ORION PHARMA**

Presenter: F. Fedele (Rome, IT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

13:00–14:30 | Hands-On Room 4 - Exhibition**Measure volume flow non-invasively, accurately, reproducibly and quickly in 3D echocardiography
Sponsored by Siemens Healthineers**

Presenter: To be announced

Learning objectives:

Stroke volume and cardiac output are measured in every transthoracic echocardiogram (TTE) and some transesophageal echocardiogram (TEE) exams irrespective of disease or diagnosis. This workshop will allow you to leverage true volume colour Doppler from TTE and TEE acquisitions and quantify stroke volume, cardiac output (HR), regurgitant fraction and regurgitant volume non-invasively, accurately, reproducibly and quickly.

13:30–14:00 | Hands-On Room 2 - Exhibition**Inodilators and renal function: how to avoid kidney dysfunction in advanced heart failure - Proper
treatment to avoid kidney disfunction
Sponsored by ORION PHARMA**

Presenter: S. Matskeplishvili (Moscow, RU)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

14:00–15:00 | Hands-On Room 5 - Exhibition**Evolution and current status of 3D transesophageal echocardiography illustrated by clinical cases
Sponsored by Philips**

Presenters: J. Necas (Brno, CZ); S. Kovalova (Brno, CZ)

Learning objectives:

Introduction of the first Live 3D transesophageal echocardiography (TEE) transducer a decade ago has changed dramatically the TEE diagnosis and the image guidance during structural heart interventions or cardiac surgery. Recent launch of the new generation of Live 3D TEE transducer gives experts in this field opportunity share clinical examples documenting an incremental value of Live 3D TEE.

15:00–15:30 | Hands-On Room 2 - Exhibition

Inotropes in acute heart failure: from guidelines to practical use - Therapeutic needs vs available options

Sponsored by ORION PHARMA

Presenter: V.-P. Harjola (Helsinki, FI)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

15:00–16:00 | Hands-On Room 3 - Exhibition

How to use ultrasound for the assessment of cardiac function in athletes

Sponsored by Toshiba Medical Systems Europe

Presenter: G.E. Pieles (Bristol, UK)

Learning objectives:

Toshiba is offering a series of educational sessions for cardiologists throughout ESC Congress 2017. Each mentored workshop is preceded by a short lecture providing an overview on data acquisition, clinical use and image interpretation. Clinical cases will be analyzed and interpreted by participants on the workstations provided. The maximum number of participants per session is 30 (2 participants per workstation). The workshop language is English.

15:30–16:00 | Hands-On Room 2 - Exhibition

Inotropes in acute heart failure: from guidelines to practical use - How to apply the guidelines in clinical practice

Sponsored by ORION PHARMA

Presenter: J.T. Parissis (Athens, GR)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

15:30–16:30 | Hands-On Room 5 - Exhibition

Automatic left heart volumetry, a true differentiator in 3D left ventricle and left atrium quantification

Sponsored by Philips

Presenter: A. Apor (Budapest, HU)

Learning objectives:

There are many studies proving advantages of transthoracic Live 3D echo over 2D echo in the assessment of left heart volumes, ejection fraction and stroke volume. However due to time and training required, until recently transthoracic Live 3D echo has not been widely used for this purpose. During these Hands-on Tutorial sessions clinical experts demonstrate how automated left heart volumetry can provide quick, easy to obtain and robust results.

17:00–17:30 | Hands-On Room 2 - Exhibition

Inotropes and clinical trials: how to select relevant end-points - Composite end-point, still clinically relevant

Sponsored by ORION PHARMA

Presenter: G. Poelzl (Innsbruck, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

17:30–18:00 | Hands-On Room 2 - Exhibition

Inotropes and clinical trials: how to select relevant end-points - Hemodynamic and symptoms/quality of life vs mortality

Sponsored by ORION PHARMA

Presenter: J. Altenberger (Großgmain, AT)

Learning objectives:

The use of inotropes or inodilators for correcting hemodynamic dysfunction and ameliorating symptoms in patients with advanced heart failure has been described over many decades, despite lack of large RCT evidence with traditional drugs. More recently, the calcium sensitizer and potassium channel opener levosimendan has been proposed for safer inodilation. This series of tutorials focus on how to use safely and effectively such new inodilator drug in acute and advanced heart failure.

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BARCELONA 2017

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09:00–10:30 | Spotlight Stage

Today on ESC TV

AN UPDATE ON CARDIOVASCULAR PREVENTION

Symposium

Chairperson(s): A.W. Hoes (Utrecht, NL); D.J. Richter (Athens, GR)

09:00	How to approach the young patient with multiple risk factors. – U. Laufs (Homburg, DE)	1
09:22	How to manage microalbuminuria in patients with high cardiovascular risk. – P. Armario (L'Hospitalet de Llobregat, ES)	2
09:45	The forgotten risk factor: mental health. – C.D. Lionis (Heraklion, GR)	3
10:07	“Lonely Hearts” are not reality: cardiac disease and comorbidities. – P.S. Svitil (Jihlava, CZ)	4

09:00–10:30 | Goya - The Hub

PCI: YOUR QUESTIONS ANSWERED BY NURSING SPECIALISTS

Symposium

Chairperson(s): K. Berra (Menlo Park, US); C.S. Jennings (London, UK)

09:00	How far have we come in creating a specialisation for nurses working with PCI patients? – J.L. Sparv (Lund, SE)	5
09:22	PCI: do patients take it seriously? – F. Astin (Huddersfield, UK)	6
09:45	Are PCI patients getting to prevention and rehabilitation programmes? – M. Kerins (Dublin, IE)	7
10:07	How do patients report their outcomes after PCI? – V. Oriolo (Clevedon, UK)	8

09:00–10:30 | Miro - The Hub

MINI QUIZ – AUSTRIA



Special Session

With questions on 2016 ESC Guidelines

Chairperson(s): A. Keren (Tel Aviv, IL); S. Matskeplishvili (Moscow, RU)

09:00	Austrian team. – M. Haumer (Mödling, AT), I.M. Lang (Vienna, AT), C. Punzengruber (Wels, AT), C. Stoellberger (Vienna, AT)	9
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09:00–10:30 | Luxembourg - Village 6

AORTIC ROOT TO BIFURCATION – A JOURNEY THROUGH A VESSEL

Ask a Question

Special Session

Chairperson(s): M. Czerny (Freiburg, DE); T.A.F. Folliguet (Vandoeuvre-lès-Nancy, FR)

09:00	From genotype to phenotype - “Diameter indications” versus a personalised approach to aortic dilatation. – F. Schoenhoff (Berne, CH)	10
09:18	RESPECT or RESECT- Standardised valve-sparing aortic root replacement. – R. De Paulis (Rome, IT)	11
09:36	Treatment of the aortic arch - From surgery to total endovascular repair. – M. Shrestha (Hannover, DE)	12
09:54	Aortic disease distal to the arch - Pathologies and treatment options. – M. Grabenwoeger (Vienna, AT)	13
10:12	Follow-up is as important as excellent primary repair in aortic disease: the need for “aortic centers”. – A. Evangelista Masip (Barcelona, ES)	14

11:00–12:30 | Spotlight Stage

Today on ESC TV

DIFFICULT ARRHYTHMOLOGY ISSUES IN PRACTICE

Symposium

Chairperson(s): E. Arbelo (Barcelona, ES); R. Asteggiano (Turin, IT)

11:00	Ventricular premature beats - Innocent bystander or a menace? – H.-J. Trappe (Herne, DE)	15
11:22	Atrial fibrillation and heart failure - Treatment advice. – M. Bocchiardo (Asti, IT)	16
11:45	Syncope - Systematic approach to a diagnostic dilemma. – G. Baron Esquivias (Seville, ES)	17
12:07	The patient with a long QT interval on routine ECG - Drugs? Electrolytes? Congenital disease? What to do and how to act. – F. Bianchi (Turin, IT)	18

11:00–12:30 | Dali - The Hub

CHRONIC HEART FAILURE – THE “BIG PICTURE”

Special Session

Organised with the Spanish Society of Cardiology

Chairperson(s): M.P. Anguita Sanchez (Córdoba, ES); J. Segovia Cubero (Madrid, ES)

11:00	Clinical case.	19
	– M. Ferrero Torres (Barcelona, ES)	
11:10	Top ten messages of the latest ESC Guidelines on chronic heart failure.	20
	– J. Comin-Colet (Barcelona, ES)	
11:25	Registry and survey information from Spain: problems and opportunities in improving care for chronic heart failure.	21
	– M.G. Crespo-Leiro (La Coruña, ES)	
11:45	New since the last Guidelines: recent scientific developments in chronic heart failure.	22
	– J.F. Delgado (Madrid, ES)	
12:05	Clinical case.	23
	– A. Suarez Barrientos (Madrid, UK)	
12:15	Moderated panel discussion: what is most important to optimise clinical management of chronic heart failure?	24
	– M.P. Anguita Sanchez (Córdoba, ES), J. Comin-Colet (Barcelona, ES), J.R. Gonzalez Juanatey (Santiago de Compostela, ES), V.-P. Harjola (Helsinki, FI), P. Ponikowski (Wroclaw, PL), J. Segovia Cubero (Madrid, ES)	

11:00–12:30 | Gaudi - The Hub

CHALLENGING CASES – A JOURNEY THROUGH THE CARDIOLOGY UNIVERSE

Clinical Cases

Chairperson(s): H. Thiele (Lübeck, DE); S. Ewen (Homburg, DE)

11:00	A complex left main PCI in the setting of disastrous intrapartum STEMI. thrombus , dissection, no-reflow and perforation. multiple complications in disguise.	25
	– K. Mandour (Cairo, EG)	
11:12	A hit that was a miss- a STEMI with a twist.	26
	– S. Ohri (Pleven, BG)	
11:25	Treatment of an iatrogenic left subclavian artery dissection by the left radial artery approach in a patient with coronary artery by-pass graft.	27
	– H.A. Kurklu (Ankara, TR)	
11:38	An unusual case of stroke and atrial fibrillation in a 23 year-old.	28
	– E. Ebrille (Boston, US)	
11:51	Double acute compartment syndrome in an extracorporeal membrane oxygenation (ECMO) assisted patient.	29
	– M. Plaza Martin (Madrid, ES)	
12:04	A peculiar mechanism of right ventricular failure in a patient with diabetes and liver insufficiency: the role of multimodality imaging to identify the mechanism and address management.	30
	– F. Prevedello (Vigonza, IT)	
12:17	Exercise induced intracardiac right-to-left shunt with elevation of the pulmonary artery pressure in a patient with pulmonary sarcoidosis.	31
	– M.P. Huitema (Nieuwegein, NL)	

11:00–12:30 | Goya - The Hub

SCREENING: AN IMPORTANT PRIORITY FOR PREVENTION IN CARDIOVASCULAR CONDITIONS

Symposium

Chairperson(s): N. Artinian (Troy, US); A.-L. Fernandez-Oliver (Málaga, ES)

11:00	Population level screening for heart disease: does it work?	32
	– T.B. Hansen (Copenhagen, DK)	
11:22	Finding heart failure - Identifying patients with HFpEF.	33
	– C. Deaton (Cambridge, UK)	
11:45	Cascade screening for familial hypercholesterolaemia.	34
	– C. Edwards (Newport, UK)	
12:07	Screening and social inequality.	35
	– V. Crowley (Dublin, IE)	

11:00–12:30 | Miro - The Hub

MINI QUIZ – ROMANIA vs TUNISIA

Special Session

With questions on 2016 ESC Guidelines

Chairperson(s): A. Keren (Tel Aviv, IL); S. Matskeplishvili (Moscow, RU)

11:00	Romanian team.	36
	– D.C. Cozma (Timisoara, RO), M. Grecu (Iasi, RO), C.-N. Iorgulescu (Bucharest, RO), S.N. Bogdan (Bucharest, RO)	
11:00	Tunisian team.	37
	– S. Benyoussef (La Marsa, TN), H. Haouala (Montfleury, TN), M. Marouene (Sfax, TN), S. Ouali (Tunis, TN)	

11:00–12:30 | Picasso - The Hub

CARDIOVASCULAR DEVELOPMENT, ANATOMY AND PATHOLOGY

Rapid Fire Abstract

Chairperson(s): D. Dobrev (Essen, DE); D.J. Henderson (Newcastle-upon-Tyne, UK)

- | | | |
|-------|--|----|
| 11:00 | The anatomical characterization of the mouse coronary and septal arteries with confocal microscopy. | 38 |
| | – W.C.H. Hsieh, H.K. Kolesova, D.S. Sedmera (Prague, CZ) | |
| 11:09 | Toll-like receptor 3 mediates the onset of calcific aortic valve disease. | 39 |
| | – C. Tepekoylu, M. Graber, L. Poelzl, J. Hirsch, E. Kirchmair, G. Degenhart, E. Demetz, D. Lobenwein, D. Lener, C. Fuchs, G. Feuchtnner, M. Grimm, J. Holfeld (Innsbruck and Vienna, AT) | |
| 11:18 | Lamin A/C mutations influence differentiation of cardiac stem cells through interacting with Notch and Wnt pathways. | 40 |
| | – K. Perepelina, A. Kostareva, A. Malashicheva (St. Petersburg, RU) | |
| 11:27 | Characterization of a novel mouse model of hepatic cardiomyopathy. | 41 |
| | – B.T. Nemeth, C. Matyas, Z.V. Varga, T. Radovits, B. Merkely, P. Pacher (Budapest, HU; Rockville, US) | |
| 11:36 | Mice with Lafora disease develop metabolic hypertrophic cardiomyopathy and cardiac dysfunction. | 42 |
| | – M. Villalba-Orero, G. Sanchez-Elexpuru, M.M. Lopez-Olaneta, J.J. Larrasa-Alonso, O. Campuzano, J. Moncayo-Arlandi, E. Bello-Arroyo, L. Padron-Barthe, P. Garcia-Pavia, J. Serratosa, R. Brugada, M. Sanchez, E. Lara-Pezzi (Madrid and Girona, ES) | |
| 11:45 | Lipomatous metaplasia of hemorrhagic myocardial infarction is triggered and perpetuated by abnormal iron deposition in the lipid-laden scar periphery. | 43 |
| | – I. Cokic, H.J. Yang, R. L.Q. Tang, J. Francis, R. Dharmakumar (Los Angeles, US) | |
| 11:54 | Endogenous cardiomyocyte-derived cardiac regeneration occurs slowly after myocardial infarction and continues into the late phase: multicolor lineage tracing mice model. | 44 |
| | – M. Kanda, T.N. Nagai, N.K. Kondou, H.A. Akazawa, I.K. Komuro, Y.K. Kobayashi (Chiba and Tokyo, JP) | |
| 12:03 | Simultaneous mapping of multiple proteins in heart using matrix-assisted laser desorption/ionization imaging mass spectrometry. | 45 |
| | – K. Takahashi, K. Naruse (Okayama, JP) | |
| 12:12 | Gene regulation associated with heart failure development and regression in zebrafish. | 46 |
| | – I. Ernens, L. Zhang, A.I. Lumley, D.R. Wagner, Y. Devaux (Strassen, LU) | |

11:00–12:30 | Agora 1 - Agora

BIOMARKERS IN ACUTE CORONARY SYNDROMES

Rapid Fire Abstract

Chairperson(s): C.E. Mueller (Basel, CH); A. Boskovic (Podgorica, ME)

- 11:00 **Usefulness of the HEART score with high- sensitivity troponin T in the emergency department.** 47
– M.M. Cortes, F. Lambardi, R. Arbucci, P. Arisnavarreta, J.P. Costabel (Buenos Aires, AR)
- 11:09 **The pre-hospital HEART score is a strong predictor of MACE in patients with suspected non-STEMI.** 48
– R.T. Tolsma, D.N. Van Dongen, M.J. Fokkert, J.P. Ottervanger, A. Van Der Sluis, R.J. Slingerland, A.W.J. Van 'T Hof (Zwolle and Deventer, NL)
- 11:18 **Prehospital point-of-care troponin measurement predicts outcome and diagnosis in patients with suspected acute myocardial infarction - experiences from a large routine-use cohort.** 49
– M.B. Rasmussen, C. Stengaard, J.T. Soerensen, I.S. Riddervold, T.M. Hansen, M. Giebner, C.H. Rasmussen, H.E. Boetker, C.J. Terkelsen (Aarhus, DK)
- 11:27 **Cardiac myosin-binding protein C in the pre-hospital setting: identifying the high-risk patient.** 50
– T.E. Kaier, C. Stengaard, L. Williams, J.T. Sorensen, J. Marjot, C.J. Terkelsen, K. Thygesen, M.S. Marber, H.E. Botker (London, UK; Aarhus, DK)
- 11:36 **Lack of chest pain is dangerous in patients calling 112 with acute myocardial infarction.** 51
– C.K. Pedersen, C. Stengaard, M.T. Boetker, I.S. Riddervold, C.J. Terkelsen (Aarhus, DK)
- 11:45 **Effect of pre-test probability on diagnostic and prognostic performance of high-sensitivity cardiac troponin for acute myocardial infarction.** 52
– P. Badertscher, J. Boeddinghaus, T. Nestelberger, R. Twerenbold, Z. Sabti, C. Puelacher, M. Rubini Gimenez, O. Miro, F.J. Martin-Sanchez, B. Morawiec, J. Parenica, S. Osswald, T. Reichlin, C. Mueller (Basel, CH; Barcelona and Madrid, ES; Zabrze, PL; Brno, CZ)
- 11:54 **Combined cardiac troponin T and I measurements quadruple the number of safe rule-outs for acute myocardial infarction with a single blood draw at presentation.** 53
– N. Van Der Linden, K. Wildi, R. Twerenbold, T. Nestelberger, J. Boeddinghaus, C. Puelacher, P. Badertscher, M. Rubini Gimenez, O. Bekers, S. Osswald, M.P. Van Dieijen-Visser, A.M. Mingels, T. Reichlin, S.J.R. Meex, C. Mueller (Maastricht, NL; Basel, CH)
- 12:03 **Direct comparison of the ESC 0/3h-algorithm with four very early rule-out strategies for acute myocardial infarction using high-sensitivity cardiac troponin I.** 54
– J. Boeddinghaus, T. Nestelberger, R. Twerenbold, P. Badertscher, M. Rubini Gimenez, K. Wildi, N. Schaerli, C. Puelacher, T. Reichlin, C. Mueller (Basel, CH)
- 12:12 **Positive troponin values above the 99th percentile strongly predict adverse outcome in patients with acute chest pain in whom acute coronary syndrome was ruled out.** 55
– T. Zeller, F. Ojeda, N. Soerensen, J. Neumann, T. Keller, S. Blankenberg, D. Westermann, M. Karakas (Hamburg and Bad Nauheim, DE)
- 12:21 **The highest predictive value of neuron-specific enolase for clinical outcomes in cardiac arrest survivors is on day 3 and day 4 after collapse: results from a prospective study.** 56
– D. Vondrakova, A. Kruger, M. Janotka, V. Dudkova, F. Malek, P. Neuzil, P. Ostadal (Prague, CZ)

11:00–12:30 | Agora 2 - Agora

CATHETER ABLATION FOR ATRIAL FIBRILLATION

Rapid Fire Abstract

Chairperson(s): D. Shah (Geneva, CH); R. Hatala (Bratislava, SK)

- 11:00 **Prophylactic pulmonary vein isolation during isthmus ablation for atrial flutter: three-year outcomes of the prevent af I study.** 57
– A. Romanov, E. Pokushalov, S. Bayramova, V. Shabanov, D. Losik, D. Ponomarev, I. Stenin, D. Elesin, I. Mikheenko, J. Steinberg (Novosibirsk, RU; Rochester, US)
- 11:09 **Location and coupling interval of ectopic beats have key roles in the onset of atrial fibrillation from the pulmonary veins.** 58
– S. Kawai, Y. Mukai, S. Inoue, A. Chishaki, H. Tsutsui (Fukuoka, JP)
- 11:18 **Interobserver variability in identifying regions where targeted ablation terminates persistent atrial fibrillation using different mapping approaches.** 59
– M. Tamboli, C. Kowaleski, B. Imielski, M. Alhuseini, T. Baykaner, J. Zaman, F. Shenasa, D. Krummen, M. Viswanathan, P. Wang, J. Brachmann, J. Miller, D. Vidmar, W.J. Rappel, S. Narayan (Stanford, San Diego and Indianapolis, US; Coburg, DE)
- 11:27 **Bachmanns bundle insertion ablation: a new concept to achieve complete anterior box isolation in patients with atrial fibrosis.** 60
– D. Schreiber, F. Moser, A. Rieger, H. Kottkamp (Zurich, CH)
- 11:36 **Clinical characteristics and arrhythmia-profile in older women with atrial fibrillation undergoing catheter ablation.** 61
– S. Mohanty, P. Mohanty, C. Trivedi, C. Gianni, J.D. Burkhardt, J. Sanchez, P. Hranitzky, G.J. Gallinghouse, A. Al-Ahmad, R. Horton, L. Di Biase, A. Natale (Austin, US)
- 11:45 **Visualization of left atrial sympathetic innervation activity and the effect of catheter ablation on activity patterns in patients with atrial fibrillation.** 62
– A. Romanov, S. Minin, C. Breault, N. Nikitin, J. Stirrup, V. Shabanov, I. Mikheenko, D. Losik, D. Elesin, I. Stenin, E. Pokushalov (Novosibirsk, RU; Caesarea, IL; London, UK)
- 11:54 **123I-mIBG left atrial innervation imaging localises ganglionated plexi verified by high-frequency stimulation during AF ablation and is affected by reader confidence and uptake location.** 63
– J.E. Stirrup, U. Voss, S. Gregg, R. Baavour, N. Roth, C. Breault, S.R. Underwood, S. Ernst (Reading and London, UK; Caesarea, IL)
- 12:03 **Hybrid ablation in patients with persistent atrial fibrillation or prior failed pulmonary vein isolation.** 64
– M.I.H. Al-Jazairi, T.J. Klinsenberg, M. Rienstra, I.C. Van Gelder, M. Mariani, Y. Blaauw (Groningen, NL)
- 12:12 **Effect of atrial fibrillation in the long-term follow-up of patients with severe aortic stenosis treated with the CoreValve prosthesis.** 65
– J. Lopez Aguilera, J.M. Segura Saint-Gerons, J.J. Sanchez Fernandez, F. Mazuelos Bellido, J. Suarez De Lezo Herreros De Tejada, S. Ojeda Pineda, M. Romero Moreno, D. Mesa Rubio, D.J. Pavlovic, L. Pardo, S. Rodriguez Diego, C. Ferreira, J. Chavarria, J. Suarez De Lezo Cruz Conde, M. Pan Alvarez-Ossorio (Córdoba, ES)
- 12:21 **Comparison of gaps detected by delayed-enhancement cardiac magnetic resonance after radiofrequency and cryoballoon ablation of paroxysmal atrial fibrillation: a case-control study.** 66
– F. Alarcon, N. Cabanelas, M. Izquierdo, E. Benito, F. Chipa, S. Prat, C. Pereda, R. Figueras, M. Linhart, A. Berrueto, L. Mont (Barcelona, ES)

11:00–12:30 | Dublin - Village 1

SHOULD WE MODIFY THE GENOME TO CURE CARDIOVASCULAR DISEASE?

Symposium

Chairperson(s): P. Charron (Paris, FR); C. Basso (Padua, IT)

- 11:00 **Genome editing of familial cardiomyopathy.** 67
– J.-S. Hulot (Paris, FR)
- 11:22 **Molecular strategies to treat cardiac arrhythmias.** 68
– S.G. Priori (Pavia, IT)
- 11:45 **Genome editing gene therapy for muscular disease.** 69
– T. Vandendriessche (Leuven, BE)
- 12:07 **Editing cells to promote cardiac regeneration.** 70
– N. Montserrat (Barcelona, ES)

11:00–12:30 | Fira - Village 1

CORONARY NO-REFLOW: FROM BENCH TO BEDSIDE

Symposium

Chairperson(s): A. Koller (Budapest, HU); M. Dorobantu (Bucharest, RO)

- 11:00 **Pathophysiology of coronary flow and no-reflow.** 71
– D.J. Duncker (Rotterdam, NL)
- 11:22 **A clinical drama: no-reflow during primary PCI.** 72
– J. Escaned (Madrid, ES)
- 11:45 **Platelet activation and aggregation in coronary no-reflow phenomena.** 73
– S. Horman (Brussels, BE)
- 12:07 **Therapeutic prevention of the no-reflow phenomenon.** 74
– R. Bugiardini (Bologna, IT)

11:00–12:30 | Astana - Village 2



THE YEAR IN HYPERTENSION – HOT PAPERS 2016/2017
Council on Hypertension

Symposium

Chairperson(s): A.F. Dominiczak (Glasgow, UK); B. Williams (London, UK)

11:00	Hot papers in hypertension epidemiology and cardiovascular risk. – D.L. Clement (Ghent, BE)	75
11:22	Hot papers in blood pressure measurement/blood pressure targets. – G. Mancia (Milan, IT)	76
11:45	Hot papers in hypertension pathophysiology and target organ damage. – M.L. Muesan (Brescia, IT)	77
12:07	Hot papers in hypertension treatment (lifestyle, drugs, devices). – P. Blankkestijn (Utrecht, NL)	78

11:00–12:30 | Pristina - Village 2

NEW INSIGHTS IN STATIN THERAPY

Advances in Science

Chairperson(s): J. Armitage (Oxford, UK); R.E. Collins (Oxford, UK)

11:00	State of the Art: statin therapy. – T.R. Pedersen (Oslo, NO)	79
11:18	Use of statins and adverse outcomes in patients with atrial fibrillation: the EURObservational research programme atrial fibrillation (EORP-AF) general pilot registry. – M. Proietti, C. Laroche, O. Nyvad, M. Haberka, V.P. Vassilikos, A.P. Maggioni, G. Boriani, G.Y.H. Lip (Birmingham, UK; Sophia Antipolis, FR; Esbjerg, DK; Katowice, PL; Thessaloniki, GR; Modena, IT)	80
11:36	Efficacy and safety of alternate-day versus daily dosing of statins: a systematic review and meta-analysis. – K. Awad, D.P. Mikhailidis, P.P. Toth, S.R. Jones, P. Moriarty, G.Y.H. Lip, P. Muntner, A.L. Catapano, M.J. Pencina, R.S. Rosenson, M. Banach (Zagazig, EG; London and Birmingham, UK; Sterling, Baltimore, Kansas City, Birmingham, Durham and New York, US; Milan, IT; Lodz, PL)	81
11:54	Comparison the effect on fasting blood sugar between atorvastatin, rosuvastatin and pitavastatin in Korean population. – Y.S. Lee, C.Y. Kim, S.Y. Hong, J.B. Lee, J.K. Ryu, J.Y. Choi, K.S. Kim (Daegu, KR)	82
12:12	Towards a broader understanding of statins. – H. Drexel (Feldkirch, AT)	83

11:00–12:30 | Riga - Village 3



COMPUTER MODELLING AND SIMULATION

Advances in Science

Chairperson(s): J. Aguado-Sierra (Barcelona, ES); S. Anwer (Cairo, EG)

11:00	State of the Art: computer modelling and simulation in heart disease. – J. Lumens (Maastricht, NL)	84
11:18	Patient-specific computer simulation to elucidate the role of contact pressure in the development of new conduction abnormalities after catheter based implantation of a self-expanding aortic valve. – G. Rocatello, N. El Faquir, G. De Santis, F. Iannaccone, J. Bosmans, O. De Backer, L. Sondergaard, P. Segers, M. De Beule, P. De Jaegere, P. Mortier (Ghent and Antwerp, BE; Rotterdam, NL; Copenhagen, DK)	85
11:36	Combined analysis of virtual haemodynamics patterns and LAA morphologies in relation with the risk of thrombus formation. – A.L. Olivares, E. Silva, M. Nunez-Garcia, C. Butakoff, D. Sanchez-Quintana, X. Freixa, J. Noailly, T. De Potter, O. Camara (Barcelona and Badajoz, ES; Aalst, BE)	86
11:54	Non-invasive virtual prediction of site of origin in outflow tract ventricular arrhythmias with a patient-specific computational model. – R. Doste, D. Soto-Iglesias, G. Bernardino, R. Sebastian, M. Sermesant, A. Berruezo, D. Sanchez-Quintana, O. Camara (Barcelona, Valencia and Badajoz, ES; Sophia Antipolis, FR)	87
12:12	The future of computer modelling in heart disease. – B. Rodriguez (Oxford, UK)	88

11:00–12:30 | Chisinau - Village 4



PCSK9 INHIBITION – CHOLESTEROL REDUCTION AND BEYOND

Symposium

Chairperson(s): P.M. Ridker (Boston, US); U. Landmesser (Berlin, DE)

- 11:00 **A global view: the rationale for aggressive LDL lowering.** 89
– S.E. Nissen (Cleveland, US)
- 11:22 **Cholesterol metabolism and the role of PCSK9.** 90
– S.J. Nicholls (Adelaide, AU)
- 11:45 **Show me the data: clinical efficacy, safety and indications of PCSK9 inhibition.** 91
– J.W. Jukema (Leiden, NL)
- 12:07 **Are there effects of PCSK9 inhibitors beyond cholesterol lowering?** 92
– B. Cariou (Nantes, FR)

11:00–12:30 | Vilnius - Village 4

HEART AND BRAIN INTERACTION

Symposium

Joint with the Chinese Society of Cardiology

Chairperson(s): Y. Chen (Beijing, CN); J.L. Zamorano Gomez (Madrid, ES)

- 11:00 **Heart and brain similarities.** 93
– P. Widimsky (Prague, CZ)
- 11:22 **Stroke prevention from lifestyle to intervention.** 94
– Y. Huo (Beijing, CN)
- 11:45 **Development of coronary devices: lessons from China.** 95
– J. Ge (Shanghai, CN)
- 12:07 **The “Stent for Life” initiative.** 96
– C. Naber (Essen, DE)

11:00–12:30 | Skopje - Village 5

RISK STRATIFICATION FOR SUDDEN DEATH IN ISCHAEMIC AND NON-ISCHAEMIC CARDIOMYOPATHY

Advances in Science

Chairperson(s): E.T. Locati (Milan, IT); M. Malik (Purley, UK)

- 11:00 **State of the Art: risk stratification for sudden death - What is relevant for clinical practice?** 97
– P.J. Schwartz (Milan, IT)
- 11:18 **Risk stratification of arrhythmia and death in ARVC.** 98
– J.B. Gourraud, F. Morio, N. Amara, F. Sacher, P. Mabo, D. Babuty, J. Mansourati, J.L. Pasquie, P. Maury, L. Jesel, B. Guyomarch, F. Kyndt, J. Barc, A. Thollet, V. Probst (Nantes, Rennes, Bordeaux, Tours, Brest, Montpellier, Toulouse and Strasbourg, FR)
- 11:36 **Predictors of ventricular arrhythmias in the Nordic arrhythmogenic right ventricular cardiomyopathy registry: first experience from the prospective multicenter Scandinavian cohort.** 99
– P.G. Platonov, K.H. Haugaa, A. Svensson, H.K. Jensen, T. Gilljam, H. Bundgaard, A.G. Holst, T. Edvardsen, J.H. Svendsen (Lund, Linköping and Gothenburg, SE; Oslo, NO; Aarhus and Copenhagen, DK)
- 11:54 **Risk factors for complex ventricular arrhythmias complicating ST-segment elevation myocardial infarction - Data from a 10-year prospective study.** 100
– T. Podolecki, J. Kowalczyk, R. Lenarczyk, E. Jedrzejczyk-Patej, M. Mazurek, A. Sedkowska, M. Swierad, G. Honisz, P. Francuz, Z. Kalarus (Zabrze, PL)
- 12:12 **Risk stratification for sudden death: where next?** 101
– S.H. Hohnloser (Frankfurt, DE)

11:00–12:30 | Valetta - Village 5



IMPROVING PROGNOSIS WITH CRT

Advances in Science

Chairperson(s): C.W. Israel (Bielefeld, DE); C. Linde (Stockholm, SE)

- 11:00 **State of the Art: cardiac resynchronisation therapy.** 102
– C. Leclercq (Rennes, FR)
- 11:18 **Left ventricular mechanical dispersion after cardiac resynchronisation therapy: prognostic implications.** 103
– P. Van Der Bijl, M. Khidir, M. Leung, N. Ajmone Marsan, V. Delgado, J.J. Bax (Leiden, NL)
- 11:36 **Clinical outcome in morbidity and mortality in patients with severe residual mitral regurgitation treated with MitraClip after non-response to cardiac resynchronization therapy.** 104
– F. Regoli, V.T. Weisheit, G.B. Pedrazzini, T. Moccetti, D. Suerder, R. Corti, P. Erne, M.L. Caputo, G. Conte, C. Klersy, A. Auricchio (Lugano, Zurich and Basel, CH; Pavia, IT)
- 11:54 **Scar characterization to predict life-threatening arrhythmic events and sudden cardiac death in cardiac resynchronization therapy patients.** 105
– J. Acosta Martinez, J. Fernandez-Armenta, M. Linhart, R. Borrás, I. Anguera, F. Bisbal, J. Tolosana, D. Penela, M. Cabrera, T.M. De Caralt, R.J. Perea, J. Ortiz, X. Bosch, L. Mont, A. Berruezo (Barcelona and Badalona, ES)
- 12:12 **The future in CRT, what improvements can be made?** 106
– H.U. Klein (Hannover, DE)

11:00–12:30 | Bishkek - Village 6

FINE-TUNING CORONARY INTERVENTIONS BY INTRACORONARY IMAGING

Advances in Science 

Chairperson(s): J.M. Hill (London, UK); V. Gupta (New Delhi, IN)

- 11:00 **State of the Art: intracoronary imaging - A tool for special questions or routine?** 107
– G. Guagliumi (Bergamo, IT)
- 11:18 **Optical coherence tomography contribution in diagnosis and management in spontaneous coronary artery dissection.** 108
– A. Cianci, N. Combaret, G. Souteyrand, G. Malcles, A. Amonchot, P. Motreff (Clermont-Ferrand, FR)
- 11:36 **Influence of optical coherence tomography derived neointimal tissue morphology on development process of very late in-stent restenosis after drug-eluting stent: four serial coronary arteriograms study.** 109
– K. Fujii, S. Otsuji, W. Yamamoto, S. Takiuchi, K. Hasegawa, K. Ishibuchi, H. Tamaru, R. Ishii, M. Yabuki, M. Ibuki, S. Nagayama, Y. Higashino (Takarazuka, JP)
- 11:54 **Prevalence of neoatherosclerosis in sirolimus-eluting stents beyond 5 and 10 years from implantation.** 110
– T. Yonetsu, T. Lee, T. Murai, Y. Kanaji, E. Usui, M. Hoshino, M. Yamaguchi, T. Niida, M. Hada, S. Ichijo, R. Hamaya, Y. Kanno, T. Kakuta (Tsuchiura, JP)
- 12:12 **Very late DES restenosis: to stent or not to stent - The role of imaging.** 111
– M. Joner (Munich, DE)

11:00–12:30 | Luxembourg - Village 6

SELECTING THE BEST REVASCUARISATION STRATEGY IN STABLE CAD


  Ask a Question
Special Session

Chairperson(s): C. Muneretto (Brescia, IT); E. Barbato (Aalst, BE)

- 11:00 **Angiography-guided versus FFR-guided PCI - How strong is the data and how should we act?** 112
– G. Rioufol (Bron, FR)
- 11:22 **The impact of FFR on surgical revascularisation.** 113
– F. Casselman (Aalst, BE)
- 11:45 **Fully arterial revascularisation - Is it really better?** 114
– N. Al-Attar (Glasgow, UK)
- 12:07 **Hybrid revascularisation - A valid concept?** 115
– N. Bonaros (Innsbruck, AT)

11:00–12:30 | Podgorica - Village 6

THE TAVI/TAVR SUMMIT

 Today on ESC TV
Symposium

Chairperson(s): A. DeMaria (La Jolla, US); G.C. Schuler (Leipzig, DE)

- 11:00 **Current patient selection criteria for TAVR/TAVI: what the trials and experience tell us.** 116
– M.B. Leon (New York, US)
- 11:18 **Pre-TAVI/TAVR imaging - What to look for.** 117
– J. Maalouf (Rochester, US)
- 11:36 **Echo guidance during TAVI/TAVR: needed? Helpful? Overrated?** 118
– M. Zuber (Othmarsingen, CH)
- 11:54 **TAVI/TAVR complications: my nightmares, how I got out of them and what I learned from them.** 119
– E. Grube (Siegburg, DE)
- 12:12 **Post TAVI/TAVR care with a focus on anticoagulation and antithrombotics.** 120
– S.R. Kapadia (Cleveland, US)

11:00–12:30 | Oslo - Village 7

PREVENTION OF SUDDEN CARDIAC DEATH IN HYPERTROPHIC CARDIOMYOPATHY

 Ask a Question
Advances in Science

Chairperson(s): J. Schulz-Menger (Berlin, DE); M.T. Tavares Aguiar (Lisbon, PT)

- 11:00 **State of the Art: sudden cardiac death prevention in hypertrophic cardiomyopathy.** 121
– A. Anastasakis (Athens, GR)
- 11:18 **Left atrial diameter predicted from left atrial volume in the risk assessment of sudden cardiac death in hypertrophic cardiomyopathy - potential clinical consequence for the individual patient.** 122
– H. Mills, K.I. Espersen, R. Jurlander, K. Iversen, H. Bundgaard, A. Axelsson Raja (Copenhagen, DK)
- 11:36 **Primary prevention of sudden cardiac death in hypertrophic cardiomyopathy: are we in line with the guidelines?** 123
– M. Mirabel, E. Donal, T. Damy, F. Labombarda, O. Huttin, P. Charron, M. Desnos, X. Jouven, J.C. Eicher, L. Offredo, G. Habib, P. Reant, A.A. Hagege (Paris, Rennes, Créteil, Caen, Vandoeuvre-lès-Nancy, Boulogne-Billancourt, Dijon, Marseille and Bordeaux-Pessac, FR)
- 11:54 **Predictive value of classic sudden death risk factors in pediatric-onset hypertrophic cardiomyopathy.** 124
– S. Passantino, N. Maurizi, S. Favilli, F. Girolami, A. Arretini, M. Targetti, G. Spaziani, L. De Simone, E. Pelo, N. Marchionni, F. Cecchi, I. Olivetto (Florence, IT)
- 12:12 **Prevention of sudden death after septal reduction therapy.** 125
– H. Seggewiss (Schweinfurt, DE)

11:00–12:30 | Rabat - Village 7

DEMYSTIFYING ENDOCARDITIS

Advances in Science

Chairperson(s): S. Di Filippo (Lyon, FR); A. Postadzhiyan (Sofia, BG)

- 11:00 **State of the Art: the endocarditis team - a new paradigm.** 126
– G. Habib (Marseille, FR)
- 11:18 **The increasing incidence and changing profile of infective endocarditis in Spain: a population-based study (2003-2014).** 127
– C. Olmos, C. Fernandez-Perez, J. Elola, J.L. Bernal, F. Islas, C. Perez-Garcia, D. Garcia-Arribas, C. Ferrera, I. Vilacosta (Madrid, ES)
- 11:36 **The value of positron emission tomography/computed tomography for discovering extra cardiac manifestations in patients with infectious endocarditis.** 128
– S.L.K. Holle, M.H. Andersen, C.F. Klein, N.E. Bruun, H. Bundgaard, K.K. Iversen (Copenhagen, DK)
- 11:54 **Etiologies for readmission and characteristics of the initial hospitalization after a primary diagnosis of infective endocarditis. A nationwide analysis using the national readmission database.** 129
– A. Lemor, H. Bello, R.N. Gowda, R.M. Gowda (New York and Atlanta, US)
- 12:12 **A deep dive into endocarditis prophylaxis.** 130
– T. Cahill (Oxford, UK)

11:00–12:30 | Bucharest - Village 8



HOW TO INDIVIDUALISE MANAGEMENT OF STEMI IN PATIENTS WITH MULTIVESSEL DISEASE?

Case-based Symposium

Chairperson(s): A. Hoyer (Hull, UK); F. Weidinger (Vienna, AT)

- 11:00 **A case of immediate full revascularisation.** 131
– D. Sibbing (Munich, DE)
- 11:30 **A case of culprit lesion-only PCI.** 132
– P. Capranzano (Catania, IT)
- 12:00 **STEMI and multivessel disease: how to integrate evidence into clinical practice - State of the Art.** 133
– C.J. Schultz (Perth, AU)

11:00–12:30 | Tripoli - Village 8

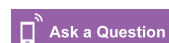
INTERPRETING CARDIAC TROPONIN

Symposium

Chairperson(s): K. Thygesen (Aarhus, DK); J.S. Alpert (Tucson, US)

- 11:00 **Cardiac troponin in chest pain patients.** 134
– H.A. Katus (Heidelberg, DE)
- 11:22 **Cardiac troponin in patients with renal failure.** 135
– O. Hammarsten (Gothenburg, SE)
- 11:45 **Cardiac troponin in patients with heart failure.** 136
– B. Lindahl (Uppsala, SE)
- 12:07 **Cardiac troponin in critically ill patients or following non cardiac surgery.** 137
– A. Jaffe (Rochester, US)

11:00–12:30 | Lisbon - Village 9



RENAL DYSFUNCTION AND IRON DEFICIENCY: FACTS, MYTHS, AND SOLUTIONS

Advances in Science

Chairperson(s): M. Abdelhamid (Cairo, EG); M. Packer (Dallas, US)

- 11:00 **State of the Art: treatment of renal dysfunction in heart failure.** 138
– W.H. Tang (Gates Mills, US)
- 11:18 **Determinants of true worsening renal function and its prognostic meaning in patients with acute heart failure.** 139
– M. Sokolski, R. Zyminski, J. Biegus, P. Siwolowski, S. Nawrocka-Millward, J. Krzysztofik, E.A. Jankowska, W. Banasiak, P. Ponikowski (Wroclaw, PL)
- 11:36 **Iron deficiency in acute heart failure: interplay between oxidative stress and inflammation.** 140
– A. Calvo Fernandez, C. Enjuanes, J. Comin-Colet, O. Merono, M. Fito Colomer, G. Blanchart, C. Ivern, N. Farre, M. Ble, M. Cladellas (Barcelona, ES)
- 11:54 **Determinants of iron deficiency in younger versus older patients with heart failure.** 141
– M. Drozd, M. Kasztura, K. Wegrzynowska, M. Tkaczyszyn, P. Rozentryt, J. Nowak, L. Polonski, J. Malyszko, E. Koc-Zorawska, W. Banasiak, P. Ponikowski, E. Jankowska (Wroclaw, Zabrze and Bialystok, PL)
- 12:12 **Iron deficiency: diagnostic dilemmas and therapeutic perspectives.** 142
– E.A. Jankowska (Wroclaw, PL)

11:00–12:30 | Warsaw - Village 9

ACUTE HEART FAILURE: TIME TO RELAX?

Advances in Science

Chairperson(s): S. Dada (Saida, LB); C. Yancy (Chicago, US)

11:00	State of the Art: acute heart failure - Is it just congestion? – S.B. Felix (Greifswald, DE)	143
11:18	The transtubular potassium concentration gradient as a predictive index of clinical tissue hypoperfusion in patients with acute decompensated heart failure. – T. Sakaguchi, A. Hirata, K. Kashiwase, Y. Higuchi, Y. Yasumura (Osaka, JP)	144
11:54	The pathophysiology and prognostic implication of discordance between measurements of central venous pressure and the degree of fluid accumulation in patients with acute decompensated heart failure. – T. Sakaguchi, A. Hirata, K. Kashiwase, Y. Higuchi, Y. Yasumura (Osaka, JP)	145
12:12	New treatment strategies in acute heart failure. – B. Assmus (Frankfurt, DE)	146

Moderated Posters are on display from 11:00 to 16:00 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (12:35–13:25), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

12:35–13:25 | Moderated poster station - Poster Area



TRANSCATHETER MITRAL INTERVENTIONS

Moderated Posters

Chairperson(s): A. Latib (Milan, IT); G. Nickenig (Bonn, DE)

Value of intraprocedural pressure monitoring during interventional valve repair depends on etiology of mitral regurgitation. P147

– B. Goebel, I. Rohm, A. Hamadanchi, S. Otto, C. Jung, T. Doenst, P.C. Schulze, T.C. Poerner (Jena and Düsseldorf, DE)

Comparison of clinical risk scores to predict survival after percutaneous mitral valve repair. P148

– J.F. Velu, S.D. Haas, K.T. Koch, M.M. Vis, R.B. Van Den Brink, S.M. Boekholdt, J.J. Piek, B.J. Bouma, J. Baan Jr (Amsterdam, NL)

Twenty-year clinical and echocardiographic follow-up of patients undergoing percutaneous mitral commissurotomy for rheumatic mitral stenosis. P149

– M. Hassine, I. Mechri, M. Ben Messaoud, M. Mahjoub, M. Ben Henia, Z. Dridi, F. Betbout, H. Gamra (Monastir, TN)

Survival advantage of percutaneous mitral valve repair over medical treatment in patients with mitral regurgitation. P150

– T. Benito Gonzalez, R. Estevez-Loureiro, C. Garrote-Coloma, J. Gualis Cardona, I. Iglesias Garriz, D. Alonso-Rodriguez, M. Lopez-Benito, C. Cuellas, L. Alvarez-Roy, L. Romero-Roche, M. Rodriguez-Santamarta, M. Minguito, S. Del Castillo, M. Castano-Ruiz, F. Fernandez-Vazquez (León, ES)

Bleeding complications following percutaneous mitral valve repair with the MitraClip. P151

– M.I. Koerber, J. Silwedel, K. Friedrichs, V. Mauri, M. Huntgeburth, R. Pfister, S. Baldus, V. Rudolph (Cologne, DE)

MitraClip therapy in ideal patients with a post-interventional mitral regurgitation equal or below grade 1. P152

– D. Reichart, D. Kalbacher, E. Tigges, C.H. Thomas, N. Schofer, F. Deuschl, J. Schirmer, S. Blankenberg, H. Reichenspurner, U. Schaefer, L. Conradi, E. Lubos (Hamburg, DE)

Risk assessment in patients undergoing MitraClip therapy: the usefulness of NT-proBNP. P153

– C. Thomas, U. Schaefer, S. Von Bardeleben, C. Zuern, R. Bekeredjian, T. Ouarrak, H. Sievert, G. Nickenig, P. Boekstegers, J. Senges, W. Schillinger, E. Lubos (Hamburg, Mainz, Tübingen, Heidelberg, Ludwigshafen, Frankfurt, Bonn, Siegburg and Northeim, DE)

12:35–13:25 | Moderated poster station - Poster Area

3D ECHOCARDIOGRAPHY IN DAILY CLINICS

Moderated Posters

Chairperson(s): G. Athanassopoulos (Piraeus, GR); N. Sutaria (Great Missenden, UK)

Incremental prognostic value of left ventricular ejection fraction measured with three-dimensional echocardiography in a large cohort of patients with various heart diseases. P154

– D. Genovese, D. Ermacora, G. Cavalli, P. Aruta, C. Palermo, E. Surkova, H. Rodriguez-Zanella, S. Iliceto, L.P. Badano, D. Muraru (Padua, IT)

Improved left ventricular quantification with 3d echocardiography using the heartmodel software: comparison with cmr. P155

– G. Cautilli, L.A. Leo, V.L. Paiocchi, C. Bucciarelli-Ducci, T. Moccetti, F.F. Faletta (Lugano, CH; Bristol, UK)

Right ventricular mechanics adapts differently to distinct loading conditions. A 3-dimensional echocardiography study. P156

– J. Bidviene, A. Kovacs, B. Lakatos, M. Tokodi, E. Surkova, G. Cavalli, F. Prevedello, E. Ereminiene, J.J. Vaskeityte, M. Perazzolo-Marra, S. Iliceto, L.P. Badano, D. Muraru (Kaunas, LT; Budapest, HU; Padua, IT)

What causes mitral annulus dilatation - A three-dimensional transesophageal study. P157

– V. Boileve, J. Dreyfus, D. Attias, A. Scheuble, I. Codogno, E. Brochet, A. Vahanian, D. Messika-Zeitoun (Paris and Saint-Denis, FR)

Left atrial appendage ejection fraction assessed by three dimensional transesophageal echocardiography predicts cardiogenic embolization in patients with nonvalvular atrial fibrillation. P158

– G. Hashimoto, M. Suzuki, H. Hayama, K. Makino, N. Ikeda, T. Ono, R. Iijima, H. Hara, M. Moroi, M. Nakamura (Tokyo, JP)

Prognostic value of left atrial functional indices assessed by three dimensional speckle tracking analysis. P159

– M. Tsujuchi, M. Ebato, S. Nagumo, T. Mizukami, H. Maezawa, A. Nogi, H. Suzuki (Yokohama, JP)

Three-dimensional left ventricular global longitudinal strain is as feasible and accurate as two-dimensional global longitudinal strain for subclinical cardiotoxicity surveillance. P160

– D.A. Cherata, H. Rodriguez-Zanella, D. Riccoboni, C. Palermo, D. Muraru, P. Aruta, E. Surkova, D. Carstea, M. Zaharie, A.D. Glodeanu, A.P. Carstea, G. Binotto, G. Semenzato, S. Iliceto, L.P. Badano (Padua, IT; Mexico City, MX; Craiova, RO)

12:35–13:25 | Moderated poster station - Poster Area**FAT AND SKELETAL MUSCLES IN HEART FAILURE****Moderated Posters**

Chairperson(s): S. Von Haehling (Berlin, DE); J. Bergler-Klein (Vienna, AT)

- Skeletal muscle of the lower limb, and not the trunk, is the site that is associated with myocardial diastolic function.** P161
– B.M.H. Keng, L.L.Y. Teo, J.J. Wong, S.J.M. Chua, R.S. Tan, S. Leng, X.D. Zhao, L. Zhong, W.P. Koh, A.S.M. Koh (Singapore, SG)
- Prognostic implication of body composition compartments and markers of its metabolism in non-cachectic men with chronic heart failure.** P162
– G. Loncar, B. Bozic, N. Cvetinovic, H.D. Dungen, M. Lainscak, S. Von Haehling, N. Prodanovic, Z. Radojicic, D. Toncev, N. Markovic-Nikolic, B. Putnikovic, V. Popovic (Belgrade, RS; Berlin and Göttingen, DE; Murska Sobota, SI)
- Characteristics and prognostic impact of muscle wasting and fat mass in heart failure with preserved ejection fraction.** P163
– M. Konishi, E. Akiyama, Y. Matsuzawa, C. Kawashima, R. Sato, H. Nakahashi, Y. Minamimoto, Y. Kimura, N. Maejima, N. Iwahashi, K. Hibi, M. Kosuge, T. Ebina, K. Kimura, K. Tamura (Yokohama, JP)
- Serum metabolomic profiling of patients with heart failure with reduced ejection fraction reveals differences between ischemic and dilated cardiomyopathy.** P164
– R. Pistulli, S. Neugebauer, D. Kretzschmar, I. Rohm, T. Kretzschmar, M. Kiehnopf, P.C. Schulze (Jena, DE)
- Exacerbated muscle sympathetic nerve activity and blunted vagal reactivation in patients with heart failure and sarcopenia.** P165
– G.W.P. Fonseca, M.R. Dos Santos, F.R. De Souza, R.A. Porello, M.J.A. Da Costa, L. Takayama, R.M.R. Pereira, C.E. Negrao, M.J.N. Nunes Alves (São Paulo, BR)
- Assessment of the relationship between novel proteins and cardiac cachexia in heart failure patients with reduced ejection fraction: adropin and irisin.** P166
– A.K. Kalkan, H.A. Cakmak, M. Erturk, K. Erol Kalkan, F. Uzun, O. Tasbulak, V. Ornek Diker, S. Aydin, A. Celik (Istanbul, Bursa, Elazig and Mersin, TR)
- The lipid paradox in patients hospitalized for acute heart failure.** P167
– C.-M. Liu, Y.-L. Cheng, H.-M. Cheng, C.-Y. Guo, W.-C. Yu, C.-H. Chen, S.-H. Sung (Taipei, TW)

12:35–13:25 | Moderated poster station - Poster Area**LIPID-LOWERING THERAPY: OLD FACES AND NEW ISSUES****Moderated Posters**

Chairperson(s): U. Laufs (Homburg, DE); P. Marques-Vidal (Lausanne, CH)

- Statin use among HIV-infected adults by cardiovascular disease risk status.** P168
– G. Burkholder, H. Zhao, D. Drozd, H. Crane, E. Geng, S. Boswell, M. Floris-Moore, B. Taylor, K. Monda, R.S. Rosenson (Birmingham, Seattle, San Francisco, Boston, Chapel Hill, Thousand Oaks and New York, US)
- Eligibility for PCSK9 inhibitors according to ESC/EAS and ACC recommendations after acute coronary syndromes.** P169
– K.C. Koskinas, B. Gencer, L. Raeber, A. Karagiannis, D. Nanchen, D. Carballo, S. Carballo, R. Klingenberg, D. Heg, C. Matter, T.F. Luscher, N. Rodondi, S. Windecker, F. Mach (Bern, Geneva, Lausanne and Zurich, CH)
- Adipose tissue content of alpha-linolenic acid and the risk of ischemic stroke - A danish case-cohort study.** P170
– C.S. Bork, S.K. Venoe, M.U. Jakobsen, S. Lundbye-Christensen, E.B. Schmidt, K. Overvad (Aalborg and Aarhus, DK)
- Low density lipoprotein cholesterol levels at first follow-up after acute myocardial infarction predicts recurrent atherosclerotic cardiovascular disease events poorly.** P171
– J. Ohm, P. Hjendahl, A. Discacciati, K. Hambraeus, T. Jernberg, P.H. Skoglund, J. Sundstrom, P. Svensson (Stockholm, Falun and Uppsala, SE)
- Significant correlation of vascular and haematopoietic tissue FDG uptake in genetic dyslipidaemia sub-types.** P172
– G. Benetos, K. Toutouzas, I. Koutagiar, J. Skoumas, N. Planou, A. Antonopoulos, A. Georgakopoulos, G. Oikonomou, P. Kafouris, G. Spyrou, C. Aggeli, D. Kokkinos, A.M. Peters, D. Tousoulis, C.D. Anagnostopoulos (Athens, GR; Brighton, UK)
- Low LDL-cholesterol goal attainment 4 months after ACS due to lack of adjustment in lipid lowering treatment: Results from DYSIS II.** P173
– A.K. Gitt, D. Lautsch, M. Horack, P.H. Brudi, K.K. Poh, G. De Ferrari, J. Ferrieres (Ludwigshafen, DE; Vienna, AT; Kenilworth, US; Singapore, SG; Pavia, IT; Toulouse, FR)
- Changes in lipid-lowering therapy prescription patterns following a second cardiovascular disease event.** P174
– A. Chamberlain, S. Cohen, J. Killian, S. Weston, T. Okerson, K. Monda (Rochester, Ann Arbor and Thousand Oaks, US)

12:35–13:25 | Moderated poster station - Poster Area

VASCULAR DEGENERATION AND RESTORATION

Moderated Posters

Chairperson(s): M. Borrell (Barcelona, ES); B. Schieffer (Marburg, DE)

- Ninjurin1 is a novel factor for vascular maturation and mediates the blood flow recovery in the hind limb ischemia.** P175
 – A. Minoshima, K. Kawabe, M. Matsuki, Y. Saito, M. Kabara, T. Hayasaka, Y. Yoshida, T. Aonuma, M. Nishimura, N. Takehara, N. Hasebe (Asahikawa, JP)
- Endothelial cell-specific expression of Angiopoietin-2 leads to reduced thrombus resolution.** P176
 – L. Hobohm, Y. Reiss, S. Koelmel, T. Munzel, S. Konstantinides, K.H. Plate, P. Wenzel, K. Schaefer, M. Lankeit (Mainz and Frankfurt, DE)
- Hyperglycemia potentiates the TGFbeta-induced endothelial to mesenchymal transition.** P177
 – E. Pardali, M. Leffers, N. Boehly, J. Waltenberger (Münster, DE)
- A novel protein Senescence-associated glycoprotein (SAGP) is involved in the vessel homeostasis in murine hind limb ischemia model.** P178
 – M. Suda, I. Shimizu, Y. Yoshida, Y. Hayashi, G. Katsuomi, H. Kayamori, R. Ikegami, S. Jiao, T. Wakasugi, A. Nagasawa, A. Ujije, T. Ozawa, T. Minamino (Niigata, JP)
- The pro-angiogenic effect of coronary serum after myocardial infarction on microvascular obstruction repair. Role of hypoxia-inducible factor-1A.** P179
 – C. Rios Navarro, L. Hueso, N. Daghbouche-Rubio, J. Gavara, E. De Dios, N. Perez-Sole, A. Ruiz-Sauri, F.J. Chorro, L. Piqueras, V. Bodi (Valencia, ES)
- Atherosclerosis reduction and improved glucose control the ABCA1 agonist CS6253. In vitro and in vivo mechanism of action studies.** P180
 – J. Johansson, S. Azhar, S. Bittner, J. Bielicki (San Ramon, Palo Alto and Berkeley, US)
- Artificial exosomes for post-ischemic vascular regeneration.** P181
 – S. Aday, I. Halevy, M. Anwar, M. Besnier, C. Beltrami, A. Herman, S. Sahoo, E. Petretto, G.D. Angelini, D. Peer, C. Emanuelli (Bristol and London, UK; Tel Aviv, IL; New York, US; Singapore, SG)

12:35–13:25 | Moderated poster station - Poster Area

A LOOK AT AORTIC STENOSIS FROM DIFFERENT ANGLES

Moderated Posters

Chairperson(s): A.S.Y. Algharabawy (Cairo, EG); J. Magne (Limoges, FR)

- Ideal cardiovascular health and aortic valve stenosis incidence in apparently healthy men and women.** P182
 – B. Arsenault, N. Perrot, N. Wareham, K.T. Khaw, S.M. Boekholdt (Quebec, CA; Cambridge, UK; Amsterdam, NL)
- Clinical application of computed tomography aortic valve calcium scoring.** P183
 – T.A. Pawade, M.A. Clavel, C. Tribouilloy, J. Dreyfus, L. Tastet, C. Renard, W.S.A. Jenkins, D.E. Newby, B. Prendergast, R. Rajani, A. Evangelista, J.L. Cavalcante, P. Pibarot, D. Messika Zeitoun, M.R. Dweck (Edinburgh and London, UK; Quebec, CA; Amiens, Saint-Denis and Paris, FR; Barcelona, ES; Pittsburgh, US)
- Topographic pattern of valve calcification: a new determinant of disease severity in aortic valve stenosis.** P184
 – A. De Santis, F.T. Tarasoutchi, J.A.B. Araujo Filho, M. Katz, M.C. Vieira, C.H. Nomura, G.S. Spina, R.O. Sampaio, J. Brown, E.R. Edelman, V.E.E. Rosa, J.R.C. Fernandes, P.A. Lemos (São Paulo, BR; Cambridge and Boston, US)
- Relationship between brain natriuretic peptide (BNP) and change in symptomatic status following transcatheter aortic valve implantation (TAVI) for aortic stenosis (AS).** P185
 – C. Allen, J. Joseph, H. McConkey, N. Chatrath, R. Rampat, D. Hildick-Smith, B. Prendergast, M. Marber, S. Redwood (London and Brighton, UK)
- Metoprolol treatment reduces hemodynamic and metabolic overload in patients with asymptomatic aortic valve stenosis - a randomized double-blind placebo controlled trial.** P186
 – N.H. Hansson, J. Sorensen, H.J. Harms, W.Y. Kim, R. Nielsen, L. Tolbod, J. Frokiaer, K. Bouchelouche, K.K. Dodt, I. Sihm, S.H. Poulsen, H. Wiggers (Aarhus and Horsens, DK)
- Long-term mortality after surgical aortic valve replacement in patients with normal left ventricular systolic function: incremental utility of valvuloarterial impedance and left ventricular strain.** P187
 – C. Huded, K. Kusunose, A. Goodman, A. Alashi, F. Shahid, R. Grimm, A.M. Gillinov, D. Johnston, L. Rodriguez, L. Svensson, B. Griffin, M. Desai (Cleveland, US)
- Timing after stroke and risk of recurrent stroke and mortality in aortic valve replacement surgery.** P188
 – C. Andreasen, M.E. Joergensen, G.H. Gislason, A. Martinsson, R.D. Sanders, J. Abdulla, P.F. Jensen, C. Torp-Pedersen, L. Koeber, C. Andersson (Gentofte, Glostrup, Naestved, Aalborg and Copenhagen, DK; Lund, SE; Madison, US)

12:35–13:25 | Moderated poster station - Poster Area

THE BRAIN IN HYPERTENSION

Moderated Posters

Chairperson(s): S. Taddei (Pisa, IT); R. Cifkova (Prague, CZ)

- The association between early morning hypertension and stroke related dementia in the elderly.** P189
– J.H. Koh, S.H. Ahn, H.Y. Kim (Seoul, KR)
- Is acoustocerebrography a new noninvasive method for early detection of the brain changes in patients with hypertension?** P190
– R. Olszewski, W. Dobkowska-Chudon, M. Wrobel, P. Karlowicz, A. Dabrowski, A. Krupienicz, T. Targowski, A. Nowicki (Warszawa and Radom, PL; Leipzig, DE)
- Are cerebrovascular variants causal in the development of hypertension?** P191
– T. Hinton, M. Jaring, J. Rodrigues, P. Jayawardena, N. Manghat, J.F.R. Paton, A.K. Nightingale, E.C. Hart (Bristol, UK)
- Cognitive disorders in children and adolescents with hypertension.** P192
– L.V. Rychkova, V.M. Polyakov, S.I. Kolesnikov, A.V. Pogodina, Z.H.V. Prokhorova (Irkutsk, RU)
- Predictors of antihypertensive medical treatment adherence decline.** P193
– A. Efanov (Tyumen, RU)
- Nocturnal hypertension versus non-dipping status in the aim of early detection of preclinical organ damage in newly diagnosed hypertension.** P194
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- Antihypertensive treatment unrelated to the hemodynamic profile results in suboptimal blood pressure control - results from an representative epidemiologic survey - sephar III.** P195
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ATRIAL FIBRILLATION ABLATION – OUTCOMES AND PREDICTORS

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– D. Hiraya (Tsukuba, JP)
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– A.S. Parwani, D. Blaschke, M. Huemer, F. Blaschke, P. Lacour, B. Pieske, W. Haverkamp (Berlin, DE)
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– M.E. Middeldorp, A.D. Elliott, C. Gallagher, J. Hendricks, A. Munawar, K. Khokhar, A. Thiagarajah, R. Mahajan, D.H. Lau, P. Sanders (Adelaide, AU)
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– K. Koch-Buettner, M. Kottmaier, T. Reents, E. Holmgren, V. Semmler, M. Deiss, M. Telishevska, M. Kornmayer, S. Brooks, C. Grebmer, K. Lennerz, C. Kolb, G. Hessling, I. Deisenhofer (Munich, DE)

12:35–13:25 | Moderated poster station - Poster Area

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Moderated Posters

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 – M. Hollander (Utrecht, NL)
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THE DIGITAL REVOLUTION IN CARDIOVASCULAR MEDICINE

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 – P. Fitzgerald (Stanford, US)
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 – W.T. Abraham (Columbus, US)
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 – N. Maniadakis (Athens, GR)
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Organised by Medscape Education, supported with an educational grant by Novartis

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– M. Komajda (Paris, FR), J.J.V. McMurray (Glasgow, UK), D. Atar (Oslo, NO), F. Ruschitzka (Zurich, CH)

*Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Warsaw - Village 9.***12:45–13:15 | Goya - The Hub****NOACS AND NEW FRONTIERS IN ANTICOAGULATION MANAGEMENT** **Satellite Symposium - Experts on the Spot****Organised by Medscape Education, supported with an educational grant by Bayer**

Chairperson(s): M. Patel (Durham, US)

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– M. Patel (Durham, US), J.W. Eikelboom (Hamilton, CA), K.A.A. Fox (Edinburgh, UK), F. Verheugt (Amsterdam, NL)

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Symposium

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Late-Breaking Science

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13:30–15:00 | Gaudi - The Hub

Today on ESC TV

Cardiologists of Tomorrow

WHAT DOES THE BUSY CARDIOLOGIST NEED TO KNOW ABOUT RECENT ADVANCES IN CARDIOLOGY?

Special Session

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- 13:48 **Transcatheter aortic valve replacement in 2017 - Tools, techniques, indications.** 234
– A. Wolf (Essen, DE)
- 14:06 **NOAC complications and the reversal of their action?** 235
– K. Czerwinska (Warsaw, PL)
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- 14:42 **Multimodality imaging in the service of other sub specialities - What is the latest.** 237
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FIT OR FRAIL?

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With questions on 2016 ESC Guidelines

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CAN WE TEACH HEART FAILURE DRUGS NEW TRICKS?

Rapid Fire Abstract

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13:30–15:00 | Agora 1 - Agora

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13:30–15:00 | Agora 2 - Agora

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REDUCING THE DANGER FROM ATHEROSCLEROTIC PLAQUE

Symposium

Joint with the European Atherosclerosis Society

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HOW TO MEASURE BLOOD PRESSURE

Symposium

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- 13:30 **State of the Art: arterial stiffness and cardiovascular risk.** 287
– S. Oparil (Birmingham, US)
- 13:48 **Prognostic impact of increase arterial stiffness in hypertensive patients: the Campania Salute Network.** 288
– C. Mancusi, M.A. Losi, R. Izzo, E. Gerdtz, G. Cenciello, G. De Stefano, N. De Luca, B. Trimarco, G. De Simone (Naples, IT; Bergen, NO)
- 14:06 **Clinical significance of pulse pressure in young to middle age hypertensives.** 289
– L. Mos, F. Saladini, C. Fania, S. Martina, O. Vriz, E. Casiglia, P. Palatini (San Daniele del Friuli and Padua, IT)
- 14:24 **Arterial stiffness independently predicts stroke in patients with essential hypertension: Data from a Greek 8-year-follow-up study.** 290
– D. Konstantinidis, C. Tsioufis, K. Dimitriadis, T. Kalos, E. Andrikou, G. Georgiopoulos, N. Vogiatzakis, D. Roussos, D. Tousoulis (Athens, GR)
- 14:42 **Phenotyping hypertension in the young.** 291
– M. Orias (Córdoba, AR)

13:30–15:00 | Beirut - Village 3

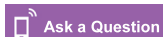
PROGNOSTIC VALUE OF CARDIAC MAGNETIC RESONANCE (CMR)

Advances in Science

Chairperson(s): S. Moharem-Elgamal (Cairo, EG); S.E. Petersen (London, UK)

- 13:30 **State of the Art: CMR of myocardial perfusion and scar.** 292
– A. Arai (Bethesda, US)
- 13:48 **Prognostic significance of coronary flow reserve evaluated by phase contrast cine magnetic resonance imaging for patients with known or suspected coronary artery disease.** 293
– S. Kato, N. Saito, T. Nakachi, K. Fukui, T. Iwasawa, M. Taguri, M. Kosuge, K. Kimura (Yokohama, JP)
- 14:06 **Long-term prognosis of silent myocardial infarction detected by LGE-CMR in patients presenting with first acute myocardial infarction.** 294
– R.P. Amier, M.W. Smulders, S.C.A.M. Bekkers, S.T. Roos, P.F.A. Teunissen, Y.E.A. Appelman, N. Van Royen, W.M. Van Der Flier, A.C. Van Rossum, R. Nijveldt (Amsterdam and Maastricht, NL)
- 14:24 **Myocardial fibrosis and the effect of defibrillator implantation in patients with non-ischemic systolic heart failure - DANISH-MRI.** 295
– M.B. Elming, S. Hammer-Hansen, E. Nyktari, I. Voges, A.A. Raja, J. Signorovitch, L. Koeber, S. Prasad, J.J. Thune (Copenhagen, DK; London, UK; Boston, US)
- 14:42 **Prognostic value of CMR: existing evidence and recent studies.** 296
– C. Kramer (Charlottesville, US)

13:30–15:00 | Riga - Village 3



ENDOCARDITIS – THE ROLE OF IMAGING

Expert Advice

Chairperson(s): S. Fateh-Moghadam (Tübingen, DE); P. Tornos Mas (Barcelona, ES)

- 13:30 **Imaging for endocarditis in congenital heart disease: challenges and solutions.** 297
– H.W. Vliegen (Leiden, NL)
- 13:52 **Imaging for device endocarditis.** 298
– J.M. Knuuti (Turku, FI)
- 14:15 **TAVI endocarditis: imaging findings.** 299
– J. Rodes-Cabau (Quebec, CA)
- 14:37 **An imaging approach to patients with prosthetic heart valves and stroke.** 300
– E. Plonska-Gosciniak (Szczecin, PL)

13:30–15:00 | Chisinau - Village 4



MANAGEMENT OF ATHLETES WITH HEART DISEASE

Advances in Science

Chairperson(s): A. Pressler (Munich, DE); F.X. Roithinger (Mödling, AT)

- 13:30 **State of the Art: management of athletes with heart disease.** 301
– S. Sharma (London, UK)
- 13:48 **Ventricular arrhythmias in athletes: useful of invasive electrophysiological approach to resolve a dilemma for sport eligibility.** 302
– A. Dello Russo, S. Riva, V. Catto, M. Dessanai, F. Pizzamiglio, M. Casella, B. Majocchi, S. Cellucci, G. Vettor, C. Basso, G. Thiene, P. Zeppilli, C. Tondo (Milan, Padua and Rome, IT)
- 14:06 **J-point elevation in subjects with TWI V1-V4 does not differentiate between arrhythmogenic right ventricular cardiomyopathy (ARVC) and healthy athletes when matched for age, sex and ethnicity.** 303
– M.J. Brosnan, A. S.J.M. Te Riele, C. Tichnell, B. Murray, H. Tandri, P. Bosman, E.T. Hoorntje, M.P. Van Den Berg, J.P. Van Tintelen, D.L. Prior, H.G. Calkins, A. La Gerche, C. James (Melbourne, AU; Utrecht, Groningen and Amsterdam, NL; Baltimore, US)
- 14:24 **Prevalence and clinical outcome of arrhythmic mitral valve prolapse in athletes.** 304
– S. Caselli, F. Mango, C. Autore, F. Di Paolo, A. Spataro, A. Pelliccia (Rome, IT)
- 14:42 **Legal aspects of disqualification recommendations for elite athletes with cardiovascular disease.** 305
– B. Merkely (Budapest, HU)

13:30–15:00 | Vilnius - Village 4

CARDIAC TELE-REHABILITATION: ADDRESSING GLOBAL CARDIOVASCULAR NEEDS

Symposium

Chairperson(s): M. Guazzi (San Donato Milanese, IT); A. Abreu (Lisbon, PT)

- 13:30 **Developing a comprehensive, multi-faceted tele-rehabilitation programme.** 306
– P. Dendale (Hasselt, BE)
- 13:52 **Home-based exercise training: how to prescribe and monitor.** 307
– M. Halle (Munich, DE)
- 14:15 **High intensity interval training at home.** 308
– I.-L. Aamot (Heimdal, NO)
- 14:37 **Cost-effectiveness of cardiac tele-rehabilitation: lessons from the FIT@home trial.** 309
– H.M.C. Kemps (Den Bosch, NL)

13:30–15:00 | Skopje - Village 5

MOST RECENT DEVELOPMENTS IN ATRIAL FIBRILLATION MANAGEMENT

Symposium

Chairperson(s): G.K. Andrikopoulos (Thrakomakedones-Athens, GR); E. Hoffmann (Munich, DE)

- 13:30 **Antiarrhythmic drugs for atrial fibrillation: current use and my prediction for the future.** 310
– A.J. Camm (London, UK)
- 13:52 **Atrial fibrillation ablation: current experience, recent data and new tools.** 311
– K.-H. Kuck (Hamburg, DE)
- 14:15 **Hybrid approaches for atrial fibrillation ablation.** 312
– L. Pison (Maastricht, NL)
- 14:37 **NOAC: do real world data support our expectations?** 313
– R. Wakili (Munich, DE)

13:30–15:00 | Valetta - Village 5



ANTIARRHYTHMIC DRUGS IN CHALLENGING ARRHYTHMIAS

Symposium

Chairperson(s): M.A. Alonso Garcia (London, UK); I. Savellieva (London, UK)

- 13:30 **Drug induced ventricular tachycardias.** 314
– C. Funck-Brentano (Paris, FR)
- 13:52 **Antiarrhythmic drugs and channelopathies.** 315
– J. Brugada Terradellas (Barcelona, ES)
- 14:15 **Digoxin use in 2017 - A critical reappraisal.** 316
– J.-Y. Le Heuzey (Paris, FR)
- 14:37 **Drug treatment of refractory ventricular tachycardia.** 317
– M. Borggrefe (Mannheim, DE)



Symposium

13:30–15:00 | Bishkek - Village 6**CHALLENGES IN COMPLEX PCI****Joint with the Asian Pacific Society of Cardiology**

Chairperson(s): W.A. Almahmeed (Abu Dhabi, AE); G.S. Werner (Darmstadt, DE)

- | | | |
|-------|--|------------|
| 13:30 | Do all chronic total occlusions need revascularisation? | 318 |
| | – A.R. Galassi (Catania, IT) | |
| 13:52 | Chronic total occlusion in Japan. | 319 |
| | – S. Sumitsuji (Osaka, JP) | |
| 14:15 | Stent or surgery for left main coronary artery disease. | 320 |
| | – A. Chieffo (Milan, IT) | |
| 14:37 | Left main stenting: Korean experience. | 321 |
| | – K. Chang (Seoul, KR) | |

13:30–15:00 | Luxembourg - Village 6**SURGERY FOR “FREQUENT FLYERS” WITH SEVERE HEART FAILURE****Heart team at work**

Chairperson(s): G. Ertl (Würzburg, DE); P. Punjabi (London, UK)

- | | | |
|-------|--|------------|
| 13:30 | Limits of medical treatment in repeatedly hospitalised patients with severe heart failure - Introduction. | 322 |
| | – S. Piper (London, UK) | |
| 13:52 | Mitral valve repair in a patient with severe ventricular dysfunction. | 323 |
| | – M. De Bonis (Milan, IT) | |
| 14:15 | Concomitant mitral and tricuspid valve surgery in a patient with severe ventricular dysfunction. | 324 |
| | – T.A.F. Folliguet (Vandoeuvre-lès-Nancy, FR) | |
| 14:37 | A patient with mechanical support (LVAD) as a bridge to transplantation. | 325 |
| | – J.F.O. Obadia (Lyon-Bron, FR) | |

Ask a Question

Live in the box

13:30–15:00 | Oslo - Village 7**LONG-TERM MANAGEMENT AND RISK ASSESSMENT AFTER TETRALOGY OF FALLOT REPAIR**

Advances in Science

Chairperson(s): O. Milanese (Padua, IT); P. Presbitero (Rozzano, IT)

- | | | |
|-------|--|------------|
| 13:30 | State of the Art: risk stratification in late follow up after Tetralogy of Fallot. | 326 |
| | – S. Di Filippo (Lyon, FR) | |
| 13:48 | infective endocarditis after Melody valve implantation in the pulmonary position: a meta-analysis. | 327 |
| | – M. Abdelghani, M. Nassif, N. Blom, M. Van Mourik, B. Straver, D. Koolbergen, J. Kluin, J. Tijssen, B. Mulder, B. Bouma, R. De Winter (Amsterdam, NL) | |
| 14:06 | Pulmonary valve replacement in England: trends and outcome over the past two decades. | 328 |
| | – S.H. Larsen, K. Dimopoulos, M.A. Gatzoulis, A. Uebing, D. Shore, A. Kempny (London, UK) | |
| 14:24 | The incidence of aortic dissection in tetralogy of Fallot. | 329 |
| | – K. Dimopoulos, R. Alonso-Gonzalez, S.J. Wort, L. Swan, A. Uebing, S.V. Babu-Narayan, M.A. Gatzoulis, A. Kempny (London, UK) | |
| 14:42 | Timing and mode of re-intervention in Tetralogy of Fallot. | 330 |
| | – M.-E. Estensen (Oslo, NO) | |

Ask a Question

13:30–15:00 | Rabat - Village 7**AFTER PULMONARY EMBOLISM: OPTIMISING TREATMENT AND FOLLOW UP**

Advances in Science

Chairperson(s): M.V. Huisman (Leiden, NL); F. Couturaud (Brest, FR)


- | | | |
|-------|---|------------|
| 13:30 | State of the Art: acute treatment of pulmonary embolism. | 331 |
| | – N. Kucher (Bern, CH) | |
| 13:48 | Determinants of the long-term haemodynamic course and late sequelae after acute intermediate-risk pulmonary embolism: results from a randomized thrombolysis trial. | 332 |
| | – S. Barco, F.A. Klok, E. Vicaut, G. Meyer, S. Konstantinides (Mainz, DE; Leiden, NL; Paris, FR) | |
| 14:06 | Validation of the VTE-BLEED score for predicting 30-day major bleeding in a real-world cohort of patients with pulmonary embolism. | 333 |
| | – K.-P. Kresoja, M. Ebner, N. Rogge, J. Reuter, G. Hasenfuss, B. Pieske, M. Lankeit (Berlin and Göttingen, DE) | |
| 14:24 | Effectiveness and safety of continued oral anticoagulation treatment beyond 1 year after venous thromboembolism in patients at intermediate risk: a nationwide propensity score weighted-cohort study. | 334 |
| | – S.P. Johnsen, T.B. Rasmussen, A.M. Falstie-Jensen, L. Harboe, G. Stynes, L. Dybro, M.L. Hansen, A. Brandes, E. Grove, A.M. Munster (Aarhus, Copenhagen, Roskilde, Odense and Esbjerg, DK; London, UK) | |
| 14:42 | Selecting the optimal duration and regimen of anticoagulation after pulmonary embolism. | 335 |
| | – B. Linnemann (Frankfurt, DE) | |

13:30–15:00 | Bucharest - Village 8

AN UPDATE ON THE CLINICAL MANAGEMENT OF STEMI
Joint with the Cardiac Society of Australia and New Zealand

Chairperson(s): J.J. Bax (Leiden, NL); M. Webster (Auckland, NZ)

13:30	Systems of care for patients with STEMI: quality & quality indicators.	336
	– G.P. Devlin (Hamilton, NZ)	
13:52	STEMI: antithrombotic treatment from the ambulance through the cath lab.	337
	– P.M. Clemmensen (Nykobing, DK)	
14:15	Ischaemia-reperfusion injury - State of affairs.	338
	– R. Bhandi (Sydney, AU)	
14:37	Secondary prevention strategies post STEMI.	339
	– S. Gielen (Detmold, DE)	

 Ask a Question

Symposium

13:30–15:00 | Tripoli - Village 8

ECMO-ASSISTED RESUSCITATION

Advances in Science

Chairperson(s): S. de Waha (Lübeck, DE); C. Hassager (Copenhagen, DK)

13:30	State of the Art: ECMO assisted resuscitation.	340
	– A. Combes (Paris, FR)	
13:48	The minnesota resuscitation consortium refractory VF early mobilization protocol. one year report.	341
	– D. Yannopoulos, D. Benditt, K. Lurie, E. Caldwell (Minneapolis, US)	
14:06	Duration for attaining favourable neurological outcome in refractory out-of-hospital cardiac arrest patients who were resuscitated with veno-arterial extracorporeal membrane oxygenation.	342
	– T. Otani, R. Matsuoka, M. Morita, T. Natsukawa, H. Sawano, Y. Hayashi (Osaka, JP)	
14:24	Higher survival rates in exercise-related out-of-hospital cardiac arrests, compared to non-exercise-related cardiac arrests - a study from the Swedish Register of Cardiopulmonary Resuscitation.	343
	– M. Frisk Torell, A. Stromsoe, E. Zagerholm, J. Herlitz, A. Claesson, L. Svensson, M. Borjesson (Kungälv, Falun, Gothenburg, Boras and Stockholm, SE)	
14:42	Triage towards mechanical support in out of hospital cardiac arrest.	344
	– C.S. Spaulding (Suresnes, FR)	

13:30–15:00 | Lisbon - Village 9

HOW TO TACKLE CONGESTION IN HEART FAILURE

Chairperson(s): V.-P. Harjola (Helsinki, FI); A. Mebazaa (Paris, FR)

13:30	How to assess congestion in heart failure.	345
	– M. Gheorghade (Chicago, US)	
13:52	Fine tuning diuretic therapy in acute and chronic heart failure.	346
	– M. Jessup (Boston, US)	
14:15	What is diuretic resistance?	347
	– M.R. Costanzo (Naperville, US)	
14:37	When and how to use ultrafiltration?	348
	– M. Metra (Brescia, IT)	

 Ask a Question

Symposium

13:30–15:00 | Warsaw - Village 9

THE RIGHT VENTRICLE – “THE DARK SIDE OF THE MOON”

Symposium

Chairperson(s): J. Celutkienė (Vilnius, LT); T.H. Marwick (Melbourne, AU)

13:30	Echocardiographic assessment of right ventricular function.	349
	– P. Nihoyannopoulos (London, UK)	
13:52	Evaluation of tricuspid regurgitation by echocardiography.	350
	– R.P. Martin (Atlanta, US)	
14:15	CMR of the right ventricle in heart failure patients.	351
	– C.M. Plymen (London, UK)	
14:37	Is the right ventricle relevant in heart failure with preserved ejection fraction?	352
	– F.C. Tanner (Zurich, CH)	

15:30–16:30 | Dublin - Village 1

PERCUTANEOUS VENTRICULAR ASSIST DEVICES FOR HEART RECOVERY

Satellite Symposium

Sponsored by Abiomed Europe GmbH

Chairperson(s): C. Mahr (Seattle, US); A. Cequier Fillat (Barcelona, ES)

15:30	Welcome and objective - Percutaneous ventricular assist devices for heart recovery.	353
	– A. Cequier Fillat (Barcelona, ES)	
15:40	The science of hemodynamics.	354
	– D. Burkhoff (New York, US)	
15:50	Hemodynamic stabilization to facilitate complete revascularization.	355
	– A. Colombo (Milan, IT)	
16:00	Optimizing outcomes in acute myocardial infarction (AMI) cardiogenic shock (CGS) through standard protocols.	356
	– C. Schulze (Jena, DE)	
16:10	Effective ventricular unloading leading to recovery after acute myocarditis.	357
	– C. Tschoepe (Berlin, DE)	
16:20	Take home message - Percutaneous ventricular assist devices for heart recovery.	358
	– C. Mahr (Seattle, US)	

15:30–16:30 | Fira - Village 1

40 YEARS OF PERCUTANEOUS CORONARY INTERVENTION: OPTIMISING ANTIPLATELET STRATEGIES IN ACUTE CORONARY SYNDROME

Satellite Symposium

Sponsored by Daiichi Sankyo Europe GmbH

Chairperson(s): K. Huber (Vienna, AT)

15:30	Welcome & introduction: 40 years of percutaneous coronary intervention.	359
	– K. Huber (Vienna, AT)	
15:40	ST-segment elevation myocardial infarction percutaneous coronary intervention patient case.	360
	– E.A. Lopez De Sa Y Areses (Madrid, ES)	
16:00	Diabetic non-ST segment elevation myocardial infarction percutaneous coronary intervention patient case.	361
	– A. Schaefer (Hannover, DE)	
16:20	Summary and closing remarks - 40 years of percutaneous coronary intervention: optimising antiplatelet strategies in acute coronary syndrome.	362
	– K. Huber (Vienna, AT)	

15:30–16:30 | Astana - Village 2

ANTICOAGULATION CARE: COVERING ALL THE BASES

Satellite Symposium

Sponsored by Boehringer Ingelheim

Chairperson(s): J. Halperin (New York, US); J.W. Eikelboom (Hamilton, CA)

15:30	What does the future hold for patients on oral anticoagulants?	363
	– J. Halperin (New York, US)	
15:35	Forward thinking about reversal: RE-VERSE AD study.	364
	– C. Pollack (Philadelphia, US)	
15:50	Dabigatran reversal when the unexpected happens.	365
	– J.W. Eikelboom (Hamilton, CA)	
16:05	OAC choice: what's really important for physicians and patients.	366
	– G.Y.H. Lip (Birmingham, UK)	
16:20	Audience Q&A - Anticoagulation care: covering all the bases.	367
	– J. Halperin (New York, US), J.W. Eikelboom (Hamilton, CA)	

Complementary Satellite Symposium - Experts on the Spot session scheduled on Sunday 27 August, 10:15–10:45 in Goya - The Hub.

15:30–16:30 | Pristina - Village 2
IMPROVING CARDIOVASCULAR OUTCOMES IN TYPE 2 DIABETES: A NOVEL ROLE FOR GLP-1 RECEPTOR AGONISTS? Satellite Symposium
Sponsored by Novo Nordisk

Chairperson(s): L. Ryden (Stockholm, SE)

- | | | |
|-------|---|-----|
| 15:30 | Introduction: cardiovascular disease in type 2 diabetes – Where do we come from. | 368 |
| | – L. Ryden (Stockholm, SE) | |
| 15:40 | Cardiovascular effects of GLP-1 receptor agonists. | 369 |
| | – J. Plutzky (Boston, US) | |
| 15:55 | Results from the LEADER cardiovascular outcomes trial. | 370 |
| | – N.R. Poulter (London, UK) | |
| 16:10 | Perspectives on results from recent CVOTs in type 2 diabetes. | 371 |
| | – L. Ryden (Stockholm, SE) | |
| 16:20 | Panel discussion - Improving CV outcomes in type 2 diabetes: A novel role for GLP-1 receptor agonists? | 372 |
| | – L. Ryden (Stockholm, SE), J. Plutzky (Boston, US), N.R. Poulter (London, UK) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Tuesday 29 August, 15:45–16:15 in Goya - The Hub.

15:30–17:00 | Beirut - Village 3
ATRIAL FIBRILLATION – A BYSTANDER OR CAUSE OF MORBIDITY AND MORTALITY: INSIGHTS FROM THE GARFIELD-AF REGISTRY Satellite Symposium
Sponsored by Thrombosis Research Institute

Chairperson(s): A. Kakkar (London, UK); J.-P. Bassand (Thise, FR)

- | | | |
|-------|---|-----|
| 15:30 | GARFIELD-AF landmark: first-year outcomes of 52,000 prospective patients. | 373 |
| | – A. Kakkar (London, UK) | |
| 15:40 | Atrial fibrillation burden: morbidity and mortality. | 374 |
| | – S.Z. Goldhaber (Boston, US) | |
| 15:50 | Heart failure and atrial fibrillation: patient profile and outcomes in the real world. | 375 |
| | – A.G.G. Turpie (Dundas, CA) | |
| 16:00 | Management and outcomes in acute coronary syndromes with atrial fibrillation: where can we improve? | 376 |
| | – K.A.A. Fox (Edinburgh, UK) | |
| 16:10 | Chronic kidney disease and atrial fibrillation: geographic differences in routine care. | 377 |
| | – S. Goto (Isehara, JP) | |
| 16:20 | Impact of body mass index and the metabolic syndrome on outcomes in atrial fibrillation. | 378 |
| | – A.J. Camm (London, UK) | |
| 16:30 | Panel discussion – Treating the whole patient. | 379 |
| | – L. Mantovani (Monza, IT), F.W.A. Verheugt (Amsterdam, NL) | |
| 16:55 | Closing remarks – Atrial fibrillation – A bystander or cause of morbidity and mortality: insights from the GARFIELD-AF registry. | 380 |
| | – J.-P. Bassand (Thise, FR) | |

15:30–16:30 | Riga - Village 3
EARLY DIAGNOSIS OF MYOCARDIAL INFARCTION: INCREMENTAL VALUE OF HIGH-SENSITIVITY CARDIAC TROPONIN (HS-CTN) AND CARDIAC IMAGING Satellite Symposium
Sponsored by Siemens Healthineers

Chairperson(s): A. Leber (Munich, DE)

- | | | |
|-------|--|-----|
| 15:30 | Translating analytical superiority of hs-cTnI assays into clinical superiority in the early diagnosis of acute myocardial infarction. | 381 |
| | – C.E. Mueller (Basel, CH) | |
| 15:50 | Highly sensitive troponin in the evaluation of suspected acute coronary syndrome. | 382 |
| | – W. Peacock (Houston, US) | |
| 16:10 | Cardiac CT for the emergency room in the era of hs-troponins. | 383 |
| | – M. Marwan (Erlangen, DE) | |

15:30–17:00 | Skopje - Village 5

EVOLVING CLINICAL PRACTICE FOR OPTIMIZED TREATMENT OF PATIENTS WITH HEART FAILURE WITH REDUCED EJECTION FRACTION (HFREF)

Satellite Symposium

Sponsored by Novartis Pharma AG

Chairperson(s): A.P. Maggioni (Milan, IT); M.G. Crespo-Leiro (La Coruña, ES)

- | | | |
|-------|---|------------|
| 15:30 | Introduction - Evolving clinical practice for optimized treatment of patients with HFREF. | 384 |
| | – A.P. Maggioni (Milan, IT), M.G. Crespo-Leiro (La Coruña, ES) | |
| 15:33 | Heart failure today – current practice and implications. | 385 |
| | – A.P. Maggioni (Milan, IT) | |
| 15:48 | Achieving contemporary treatment goals in patients with HFREF – a practical case study. | 386 |
| | – R. Wachter (Göttingen, DE) | |
| 16:23 | Advancing standard of care in patients with HFREF – what does it take? | 387 |
| | – A. Pathak (Toulouse, FR), R. Wachter (Göttingen, DE), M.G. Crespo-Leiro (La Coruña, ES), A.P. Maggioni (Milan, IT), R.S. Gardner (Linthgow, UK) | |
| 16:58 | Summary and closure - Evolving clinical practice for optimized treatment of patients with HFREF. | 388 |
| | – M.G. Crespo-Leiro (La Coruña, ES) | |

15:30–16:30 | Bishkek - Village 6

PROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 9 (PCSK9) INHIBITION & CARDIOVASCULAR OUTCOMES: REVIEW OF LIPID TARGETS AND TREATMENT STRATEGIES

Satellite Symposium

Organised by Physicians' Academy for Cardiovascular Education, supported with an educational grant by Sanofi/Regeneron and Amgen

Chairperson(s): W. Koenig (Munich, DE); M. Farnier (Dijon, FR)

- | | | |
|-------|---|------------|
| 15:30 | Introduction - PCSK9 inhibition & cardiovascular outcomes: review of lipid targets and treatment strategies. | 389 |
| | – M. Farnier (Dijon, FR) | |
| 15:35 | Understanding new PCSK9 outcome data: from the LDL-C hypothesis to LDL-C causality. | 390 |
| | – J. Chapman (Paris, FR) | |
| 15:50 | PCSK9 inhibition across a wide spectrum of patients: for whom is it efficacious? | 391 |
| | – G.K. Hovingh (Amsterdam, NL) | |
| 16:05 | PCSK9 inhibition & CV events: review of recent and upcoming hard endpoint outcome trials. | 392 |
| | – P.S. Sever (London, UK) | |
| 16:25 | Discussion - PCSK9 inhibition & cardiovascular outcomes: review of lipid targets and treatment strategies. | 393 |
| | – W. Koenig (Munich, DE), M. Farnier (Dijon, FR) | |

15:30–17:00 | Luxembourg - Village 6

ACHIEVING BETTER BLOOD PRESSURE (BP) CONTROL WITH FIXED-DOSE COMBINATION (FDC) THERAPY

Satellite Symposium

Sponsored by Menarini group and Daiichi Sankyo Co., Ltd

Chairperson(s): A. De La Sierra (Terrassa, ES); M. Burnier (Lausanne, CH)

- | | | |
|-------|--|------------|
| 15:30 | Welcome and introduction: renin-angiotensin system blockade as the basis for combination therapy. | 394 |
| | – M. Burnier (Lausanne, CH) | |
| 15:45 | Maximising benefits of fixed-dose combinations. | 395 |
| | – B. Williams (London, UK) | |
| 16:00 | Interactive debate: should there be greater emphasis on combination therapy, particularly fixed-dose combinations, in the treatment guidelines? | 396 |
| | – A. De La Sierra (Terrassa, ES), B. Williams (London, UK), M. Burnier (Lausanne, CH), M. Volpe (Rome, IT) | |
| 16:30 | Angiotensin receptor blocker-based single-pill platform: a practical approach. | 397 |
| | – M. Volpe (Rome, IT) | |
| 16:45 | Combination therapies and BP control: the spanish hypertension registry experience. | 398 |
| | – A. De La Sierra (Terrassa, ES) | |
| 16:55 | Summary and meeting close - Achieving better blood pressure control with fixed-dose combination therapy. | 399 |
| | – A. De La Sierra (Terrassa, ES) | |

■ **15:30–17:00 | Podgorica - Village 6**

RARE BUT NOT SO RARE! HOW TO SPOT THE SIGNS OF FABRY DISEASE AND ACT IN TIME Satellite Symposium

Sponsored by Shire International GmbH

Chairperson(s): P. Garcia-Pavia (Majadahonda, ES)

15:30	Welcome and introduction - Rare but not so rare! - How to spot the signs of Fabry disease and act in time.	400
	– P. Garcia-Pavia (Majadahonda, ES)	
15:55	Using the ESC Guidelines to diagnose Fabry disease: when & how to screen.	401
	– P. Charron (Paris, FR)	
16:10	How to read cardiac MRI in Fabry patients.	402
	– S. Nordin (London, UK)	
16:25	Prompt treatment initiation for a long-lasting effect.	403
	– A. Linhart (Prague, CZ)	
16:45	Q&A - Rare but not so rare! - How to spot the signs of Fabry disease and act in time.	404
	– P. Garcia-Pavia (Majadahonda, ES), P. Charron (Paris, FR), A. Linhart (Prague, CZ), S. Nordin (London, UK)	

■ **15:30–16:30 | Oslo - Village 7**

THE NOVEL ORAL ANTICOAGULANTS (NOACs)... INTRODUCING A NEW ERA IN THE REAL WORLD MANAGEMENT OF PULMONARY EMBOLISM (PE) Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): S.V. Konstantinides (Mainz, DE)

15:30	Opening remarks - The NOACs... Introducing a new era in the real world management of PE.	405
	– S.V. Konstantinides (Mainz, DE)	
15:35	Assessing PE risk in daily practice: challenges in a case evaluation.	406
	– L. Howard (London, UK)	
15:50	Applying data in treatment decisions... Real world evidence (RWE) in the era of the NOACs.	407
	– D. Jimenez (Madrid, ES)	
16:05	Is venous thromboembolism (VTE) a chronic condition... Selecting the right anticoagulant at the right dose for the right patient.	408
	– J. Weitz (Hamilton, CA)	
16:25	Closing remarks - The NOACs... Introducing a new era in the real world management of PE.	409
	– S.V. Konstantinides (Mainz, DE)	

■ **15:30–16:30 | Rabat - Village 7**

MANAGING DIABETES & CARDIOVASCULAR DISEASE (CVD): IS EPIGENETICS A NEW WAY FORWARD? Satellite Symposium

Organised by Physicians' Academy for Cardiovascular Education, supported with an educational grant by Resverlogix

Chairperson(s): R. Kausik (London, UK); L. Badimon (Barcelona, ES)

15:30	Introduction - Managing diabetes & CVD: is epigenetics a new way forward?	410
	– L. Badimon (Barcelona, ES)	
15:35	Managing high risk diabetes patient with cardiovascular disease: what works, and what else can we do?	411
	– R. Kausik (London, UK)	
15:50	Promise of epigenetic modulation as a target in atherosclerotic patients.	412
	– E. Stroes (Amsterdam, NL)	
16:05	Insights from the first trials in epigenetics in human: what is the way forward?	413
	– S.J. Nicholls (Adelaide, AU)	
16:25	Discussion - Managing diabetes & CVD: is epigenetics a new way forward?	414
	– R. Kausik (London, UK)	

15:30–17:00 | Tripoli - Village 8

CHALLENGES AND OPPORTUNITIES OF ESTABLISHING REPERFUSION NETWORKS FOR ST-SEGMENT ELEVATION MYOCARDIAL INFARCTION (STEMI) AND FOR ACUTE STROKE
Sponsored by Boehringer Ingelheim International GmbH


Satellite Symposium

Chairperson(s): V. Caso (Perugia, IT); F. Van de Werf (Leuven, BE)

15:30	Introduction from the chairs. – F. Van de Werf (Leuven, BE)	415
15:32	Acute stroke therapy 2017: perspective from the European stroke society. – V. Caso (Perugia, IT)	416
15:40	Clinical importance of a STEMI network and pharmaco-invasive treatment. – R. Welsh (Edmonton, CA)	417
15:53	Experiences from acute ischaemic stroke reperfusion strategies. – C. Molina (Barcelona, ES)	418
16:06	STEMI and stroke networks: experience from the North of France. – D. Leys (Lille, FR), G. Lemesle (Lambertart, FR), J.P.P. Pruvo (Lille, FR), P. Goldstein (Lille, FR)	419
16:26	Networks and reperfusion strategies for STEMI and ischaemic stroke: interactive discussion session. – P. Goldstein (Lille, FR), R. Welsh (Edmonton, CA), C. Molina (Barcelona, ES), P.R. Sinnaeve (Leuven, BE), D. Leys (Lille, FR), P.W. Armstrong (Edmonton, CA), F. Van de Werf (Leuven, BE)	420
16:54	Summary and future perspectives. – P.W. Armstrong (Edmonton, CA), V. Caso (Perugia, IT)	421

15:30–16:30 | Lisbon - Village 9

WHEN TO OPTIMIZE HEART FAILURE TREATMENT?
Sponsored by SERVIER

 **Vote & Ask a Question**
Satellite Symposium

Chairperson(s): S.D. Anker (Berlin, DE); Y.M. Lopatin (Volgograd, RU)

15:30	Introduction - When to optimize heart failure treatment? – S.D. Anker (Berlin, DE)	422
15:35	A snapshot of today's heart failure patients. – M. Komajda (Paris, FR)	423
15:45	Why wait to optimize treatment. – M. Böhm (Homburg, DE)	424
15:55	Early treatment optimization in practice. – M.R. Cowie (London, UK)	425
16:05	Discussion - When to optimize heart failure treatment? – S.D. Anker (Berlin, DE), M. Böhm (Homburg, DE), M.R. Cowie (London, UK), M. Komajda (Paris, FR), Y.M. Lopatin (Volgograd, RU)	426
16:25	Conclusion - When to optimize heart failure treatment? – Y.M. Lopatin (Volgograd, RU)	427

Complementary Satellite Symposium - Experts on the Spot session scheduled on Sunday 27 August, 10:15–10:45 in Gaudi - The Hub.

15:30–16:30 | Warsaw - Village 9

LIGHTING THE WAY: A NEW PATH TO MANAGE HYPERKALAEMIA
Sponsored by AstraZeneca

Satellite Symposium

Chairperson(s): L.H. Lund (Stockholm, SE)

15:30	Chair's introduction - Lighting the way: a new path to manage hyperkalaemia. – L.H. Lund (Stockholm, SE)	428
15:40	Shedding light on the risk of moderate hyperkalaemia. – G.M.C. Rosano (London, UK)	429
16:00	The new treatment pathway for hyperkalaemia. – M. Kosiborod (Kansas City, US)	430
16:20	Panel Q&A - Discussion - Lighting the way: a new path to manage hyperkalaemia. – L.H. Lund (Stockholm, SE), G.M.C. Rosano (London, UK), M. Kosiborod (Kansas City, US)	431

Complementary Satellite Symposium - Experts on the Spot session scheduled on Sunday 27 August, 10:15–10:45 in Miro - The Hub.

17:00–18:00 | Barcelona - Main Auditorium

Today on ESC TV

INAUGURAL SESSION

Special Event

Featuring ESC Congress 2017 Inauguration Keynote Address: **The Future of Cardiovascular Medicine in the Digital Era** by Eric Topol, MD, Director, Scripps Translational Science Institute and Professor of Genomics, The Scripps Research Institute.
The Inaugural session will be immediately followed by a networking event in ESC Plaza.

11:00–16:00 | Best poster screen - Poster Area

BEST POSTERS 1

Best Posters

Discussant intervention 12:35–13:25

Best Posters are on display from 11:00 to 16:00 on the Best Posters plasma screen of the related topic. During the viewing time (12:35–13:25), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN CEREBROVASCULAR DISEASE

Discussant: Best Posters in cerebrovascular disease. P432
– P. Lacroix (Limoges, FR), G.L. Buchanan (Carlisle, UK)

Linoleic acid in adipose tissue and risk of ischemic stroke. P433
– S.K. Venoe, C.S. Bork, M.U. Jakobsen, S. Lundbye-Christensen, F.W. Bach, E.B. Schmidt, K. Overvad (Aalborg and Aarhus, DK)

Assessment of vascular damage in hodgkin lymphoma survivors: effect of radiotherapy. P434
– A. Paini, M. Salvetti, F. Bertacchini, M. Buglione, F. Tevisan, L. Baushi, S.M. Magrini, M.L. Muiesan (Brescia, IT)

Carotid intraplaque hemorrhage and/or plaque rupture may occur at any time irrespective of symptoms. P435
– M.C. Lorenzo, M. Otero-Losada, J. Balassanian, J. Milei (Buenos Aires, AR)

Durability of stroke prevention using a dual-layer stent system in carotid revascularization in symptomatic and increased-stroke-risk asymptomatic patients: 12-month evidence from the PARADIGM study. P436
– P. Musialek, A. Mazurek, M. Trystula, A. Boratynska, A. Lesniak-Sobelga, M. Urbanczyk, R.P. Barys, P. Wilkolek, M. Brozda, N. Dluzniewska, A. Brzychczy, W. Zajdel, L. Partyka, K. Zmudka, P. Podolec (Krakow, PL)

BEST POSTERS IN m-HEALTH TECHNOLOGY AND APPLICATION

Discussant: Best Posters in m-health technology and application. P437
– M. Mamas (Stockport, UK), I. Simova (Sofia, BG)

Beat-to-beat validation of PPG as a tool to detect regular and irregular heartbeats. P438
– T. Vandenberk, C. Pelckmans, G. Van Schelvergem, J. Van Der Auwera, I. Thijs, V. Storms, P. Vandervoort, L. Grieten (Diepenbeek and Hasselt, BE)

Cardiac strength deconditioning after the 60-days head-down bed-rest assessed by heart kinetic energy wearable monitoring. P439
– P.-F. Migeotte, J. Monfils, F. Landreani, I.I. Funtova, J. Tank, P. Van De Borne, E.G. Caiani (Brussels, BE; Milan, IT; Moscow, RU; Cologne, DE)

Help China, a randomised trial evaluating the effect of a smart phone-based patient support tool on treatment duration in patients prescribed rosuvastatin in China. P440
– X. Du, M. Jornten-Karlsson, Y. Xu, J. Guo, J. Li, X. Mei, L. Han, J. Wang, J. Li, Z. Shen, A. Ryden, M. Ahlqvist, M. Sundén, B.W. Karlsson, C. Ma (Beijing, Shanghai, Tianjin and Sichuan, CN; Mölndal, SE)

Use of a smartphone camera to estimate systolic blood pressure compared to standard oscillometric blood pressure measurement - a prospective trial. P441
– J. Eckstein, T. Burkardt, C. Winterhalder, L. Leonardi, E. Thommen, S. Weber, R. Birkemeyer, A. Seeck, N. Koenig, M. Doerr (Basel, CH; Regensburg, Ulm, Jena and Greifswald, DE)

BEST POSTERS IN DEVICES IN HEART FAILURE

Discussant: Best Posters in devices in heart failure. P442
– K. Dickstein (Stavanger, NO), U. Birgersdotter-Green (La Jolla, US)

Very long-term monitoring of left ventricular function in patients with HF_rEF and HF_mrEF. P443
– M. De Antonio, J. Lupon, J. Lopez-Ayerbe, P. Moliner, M. Domingo, E. Ferrer, E. Zamora, N. Vallejo, F. Gual, A. Teis, G. Junca, M.I. Troya, M. Rodriguez, B. Gonzalez, A. Bayes-Genis (Badalona, ES)

Effect of sex on reverse remodelling in chronic systolic heart failure. P444
– A. Aimo, G. Vergaro, V. Castiglione, A. Barison, E. Pasanisi, C. Petersen, V. Chubuchny, A. Giannoni, R. Poletti, S. Maffei, J. Januzzi, C. Passino, M. Emdin (Pisa, IT; Boston, US)

Pulmonary hypertension in patients with advanced heart failure with reduced ejection fraction: a marker but not a maker. P445
– M. Sabatino, A. Centritto, L. Borgese, E. Bertolino, M. Masetti, A. Rinaldi, F. Dardi, N. Galle, F. Grigioni, L. Potena (Bologna, IT)

Prognostic significance of myocardial energy expenditure and myocardial efficiency in patients with heart failure with reduced ejection fraction. P446
– M.S. Cetin, E.H. Ozcan Cetin, H. Sasmaz, A. Temizhan, S. Aydogdu (Ankara, TR)

BEST POSTERS IN PUBLIC HEALTH AND HEALTH POLICY

Discussant: Best Posters in public health and health policy. P447
– L. Hayman (Boston, US), P. Kearney (Cork, IE)

Global burden of cardiovascular disease in people living with the human immunodeficiency virus. P448

– A. Shah, D. Stelzle, K. Lee, S. Alam, S. Clifford, C. Longenecker, F. Strachan, S. Bagchi, W. Whiteley, S. Rajagopalan, S. Kottitill, H. Nair, D. Newby, D. McAllister, N. Mills (Edinburgh and Glasgow, UK; Geneva, CH; Cleveland and Baltimore, US)

The Euro Heart Index 2016. P449

– B. Cebolla, A. Bjornberg (Marseillan, FR)

Avoidable mortality in acute myocardial infarction at hospital level: where to look for answers? P450

– T.M. Magalhaes, S.L. Lopes, F.S. Seixo, F.J.P. Pinto, J.J.F.G. Gomes (Lisbon and Setubal, PT)

BEST POSTERS IN CARDIOVASCULAR PHYSIOLOGY

Discussant: Best Posters in cardiovascular physiology. P451

– L. Fabritz (Birmingham, UK), V.P.M. Van Empel (Maastricht, NL)

Chronic exercise training modulates inflammation and reduces left ventricle stiffness in heart failure with preserved ejection fraction. P452

– C. Schmidt, N. Goncalves, A.F. Silva, J. Coelho, D. Fontoura, S. Leite, D. Miranda-Silva, I. Falcao-Pires, A. Lourenco, J. Oliveira, A.F. Leite-Moreira, D. Moreira-Goncalves (Porto, PT)

Overexpression of SIRT4 accelerates the development of heart failure. P453

– C. Koentges, E. Doerfer, K. Pfeil, S. Birkle, M. Hoelscher, M.M. Hoffmann, C. Bode, H. Bugger (Freiburg, DE)

Balance between sodium and calcium currents determine efficacy of pharmacological antiarrhythmic strategies for atrial fibrillation. P454

– A. Liberós, A. Bueno-Orovio, M. Rodrigo, M.S. Guillem, I. Hernandez-Romero, B. Rodriguez, F. Atienza, F. Fernandez-Aviles, A.M. Climent (Madrid and Valencia, ES; Oxford, UK)

Simulated obstructive respiratory events, but not intermittent hypoxia alone, result in the development of an atrial arrhythmogenic substrate in a novel rat model for sleep apnea. P455

– D. Linz, M. Hohl, B. Linz, A. Nickel, C. Maack, D. Lau, P. Sanders (Adelaide, AU; Homburg, DE)

BEST POSTERS IN AORTIC VALVE DISEASE

Discussant: Best Posters in aortic valve disease. P456

– S. Fateh-Moghadam (Tübingen, DE), M. Kasel (München, DE)

Longitudinal cardiac magnetic resonance assessment in patients with aortic stenosis. P457

– R. Everett, C.W.L. Chin, J. Kwiencinski, W.J. Jenkins, M.A. Clavel, S. Mirsadree, A. White, S. Semple, S.K. Prasad, P. Pibarot, D.E. Newby, M.R. Dweck (Edinburgh and London, UK; Singapore, SG; Poznan, PL; Quebec, CA)

Impact of Coronary Artery Disease in Patients Undergoing Transcatheter aortic Valve Replacement: Inside The FRANCE-2 Registry. P458

– R. Didier, D. Blanchard, E. Puymirat, S. Chassaing, O. Bar, C. Barbey, B. Lung, J. Fajadet, P. Leprince, A. Leguerrier, M. Lievre, A. Prat, A. Teiger, H. Etchaninoff, M. Gilard (Brest, Tours, Paris, Toulouse, Rennes, Lyon, Lille and Rouen, FR)

Tricuspid but not mitral regurgitation determines mortality after TAVR in patients with less than significant mitral regurgitation. P459

– I.J. Amat Santos, J.A. Castrodeza, L. Nombela-Franco, A.J. Munoz-Garcia, E. Gutierrez-Ibanes, J.M. De La Torre, J.G. Cordoba-Soriano, P.R. Rojas, I. Martin-Morquecho, C. Cortes, S. Vera, R. Goncalves, M. Carrasco-Moraleja, I. Gomez, J.A. San Roman (Valladolid, Madrid, Málaga, Santander and Albacete, ES)

Up to 10-years long-term durability after transcatheter aortic valve implantation using balloon-expandable transcatheter valves: experience from the pioneer center. P460

– E. Durand, G. Avinee, C. Tron, N. Bettinger, N. Bouhzam, J.N. Dacher, F. Bauer, P.Y. Litzler, A. Cribier, H. Etchaninoff (Rouen, FR)

BEST POSTERS IN HYPERTENSIVE TARGET ORGAN DAMAGE

Discussant: Best Posters in hypertensive target organ damage. P461

– S. Sokolovic (Sarajevo, BA), F. Mahfoud (Homburg, DE)

Age-related testosterone decline and cardiovascular remodeling in hypertensive men. P462

– O. Nasonenko (Zaporizhzhya, UA)

Relationship of carotid artery and left ventricular hypertrophy in patients with hypertension and type 2 diabetes mellitus. P463

– S. Kozhukhov, O. Yarynkina, N. Dovganych (Kiev, UA)

Clinic and 24 hours blood pressure values are strictly related to dimensions of the ascending aorta in a general population. P464

– M. Salvetti, A. Paini, F. Bertacchini, D. Stassaldi, C. Agabiti Rosei, C.Q. Aggiusti, G. Maruelli, G. Rubagotti, L. Verzeri, G. Sacca', E. Agabiti-Rosei, M.L. Muesan (Brescia, IT)

Target organ damage and thresholds of systolic blood pressure control: the Campania Salute Network. P465
– A. D' Amato, M.A. Losi, R. Izzo, C. Mancusi, G. Canciello, N. De Luca, B. Trimarco, G. De Simone (Naples, IT)

BEST POSTERS IN SYNCOPE

Discussant: Best Posters in syncope. P466
– R.A. Kenny (Dublin, IE), B. Nowak (Frankfurt, DE)

Risk of post-discharge fall-related injuries among adult patients with syncope: a Danish nationwide cohort study. P467

– A. Nume, N. Carlson, T.A. Gerds, E. Holm, J. Pallisgaard, K.B. Sondergaard, M.L. Hansen, M. Vinther, J. Hansen, G. Gislason, C. Torp-Pedersen, M.H. Ruwald (Hellerup, Copenhagen, Nykøbing Falster, Roskilde and Aalborg, DK)

Natural history of syncope: insights from the BASEL IX study. P468

– P. Badertscher, T. Nestelberger, J. Du Fay De Lavallaz, M. Than, L. Cullen, O. Miro, F.J. Martin-Sanchez, B. Morawiec, M. Christ, S. Di Somma, F. Peacock, S. Osswald, T. Reichlin, C. Mueller (Basel, CH; Christchurch, NZ; Brisbane, AU; Barcelona and Madrid, ES; Zabrze, PL; Nürnberg, DE; Rome, IT; Houston, US)

Pro-hormones in the early diagnosis of cardiac syncope. P469

– P. Badertscher, T. Nestelberger, J. Du Fay De Lavallaz, M. Than, B. Morawiec, O. Miro, F.J. Martin-Sanchez, L. Cullen, M. Christ, S. Di Somma, F. Peacock, S. Osswald, T. Reichlin, C. Mueller (Basel, CH; Christchurch, NZ; Zabrze, PL; Barcelona and Madrid, ES; Nürnberg, DE; Rome, IT)

BEST POSTERS IN NEW INSIGHT IN STEMI PATHOPHYSIOLOGY

Discussion: Best Posters in new insight in STEMI pathophysiology. P470
– P.R. Sinnaeve (Leuven, BE), S. Massberg (Munich, DE)

OCT vs angiography guided primary percutaneous coronary intervention in STEMI. P471

– C. Zhe, S. Hu, H. Jia, C. Fang, N.A. Feng, C. Zhao, L. Li, Y. Zhu, H. Gao, Y. Lv, Y. Hu, B. Yu (Harbin, CN)

An OCT study on plaque rupture, plaque erosion and calcified nodule in non-culprit lesions of patients with STEMI prevalence, distribution and morphologic characteristics. P472

– Y. Zhu, H. Jia, S. Hu, L. Li, J. Dai, C. Wang, L. Zhao, Y. Hu, Y. Wang, C. Zhe, J. Hou, S. Zhang, B. Yu (Harbin, CN)

Intracoronary cell-free DNA is associated with microvascular damage in ST-elevation acute myocardial infarction treated with primary percutaneous coronary intervention. P473

– S. Garcia Blas, L. Ortega-Paz, E. Valero, S. Brugaletta, G. Minana, A.P. Dantas, M. Garabito, J. Nunez, A. Carratala, M. Sabate, J. Sanchis (Valencia and Barcelona, ES)

Release kinetics of muscle-enriched microRNAs during primary PCI predict coronary microvascular obstruction and suggest the nonexistence of reperfusion injury in human patients. P474

– J.A. Coelho Lima Junior, S. Cormack, A. Mohammed, R. Das, M. Egred, P. Pahani, S. Ali, I. Spyridopoulos (Newcastle-upon-Tyne, UK)

Posters are on display from 11:00 to 16:00. Presenters will be by their poster during the lunch break between 12:30 and 13:30 for posters viewing time.

TRANSCATHETER VALVULAR INTERVENTIONS AND THEIR COMPLICATIONS

- Chronic kidney disease and periprocedural outcomes among patients who underwent transcatheter mitral valve replacement (TMVR) compared to surgical mitral valve replacement: report from NIS 2012-2014.** P475
 – S. Alliu, C. Adejumo, M. Durojaiye, V. Namana, S. Kamholz, F. Robert, H. Gerald, J. Shani (Brooklyn, Worcester and Birmingham, US)
- Functional status and quality of life after transcatheter mitral valve repair: a prospective cohort study and systematic review.** P476
 – C. Iliadis, S. Lee, K. Kuhr, C. Metzke, S. Matzik, G. Michels, V. Rudolph, S. Baldus, R. Pfister (Cologne, DE)
- Influence of cardiovascular inflammation on outcome and mortality in high-risk patients undergoing percutaneous mitral valve repair.** P477
 – O. Doerr, C. Walther, C. Liebetau, H. Tabert, J. Lorenz, H. Moellmann, L. Gaede, K.F. Weipert, N.F. Boeder, C. Troidl, S. Voss, T. Bauer, C. Hamm, H.M. Nef (Giessen, Bad Nauheim and Dortmund, DE)
- Hemodynamic characterization of right heart function to predict outcome after MitraClip.** P478
 – V. Mauri, T. Weber, K. Friedrichs, M.I. Koerber, T.K. Rudolph, R. Pfister, S. Baldus, V. Rudolph (Cologne, DE)
- Persistent iatrogenic atrial septal defect after percutaneous mitral valve repair using the MitraClip system: one step forward or two steps back.** P479
 – M. Almalla, J. Schroeder, E. Altiock, N. Marx, S. Reith (Aachen, DE)
- A simple score to predict late outcome of balloon mitral commissurotomy.** P480
 – H. Gamra, M. Hassine, I. Mechri, M. Ben Messaoud, M. Mahjoub, N. Bouchahda, M. Ben Henia, M. Boussaada, Z. Dridi, F. Betbout (Monastir, TN)
- Acute anatomic changes and clinical outcomes after transcatheter mitral valve repair.** P481
 – A. Alperi, I. Pascual Calleja, P. Avanzas Fernandez, V. Leon Agüero, D. Hernandez Vaquero, I. Silva Conde, R. Lorca Gutierrez, L. Gutierrez De La Varga, L. Martinez Fernandez, D. Garcia Iglesias, M. Almdarez Lacayo, L. Diaz Chiron Sanchez, F. Pun Chinchay, J. Silva Guisasaola, C. Moris De La Tassa (Oviedo, ES)
- Very long-term outcomes of patients with severe aortic stenosis: the impact of treatment modality.** P482
 – R. Vollenbroich, S. Stortecky, M. Rothenbuehler, E. Roost, E. Sakiri, A. Franzone, J. Lanz, B. Langhammer, J.K.T. Lee, M. Asami, L. Raeber, P. Wenaweser, L. Englberger, S. Windecker, T. Pilgrim (Bern, CH)
- Trends in mortality over time in a real-world TAVI population.** P483
 – M.S. Van Mourik, F. Van Kesteren, E.M.A. Wiegerinck, J. Vendrik, R.N. Planken, J.J. Piek, J.G. Tijssen, K.T. Koch, J.P.S. Henriques, A.H.G. Driessen, M.M. Vis, J. Baan Jr (Amsterdam, NL)
- Is pro-BNP better predictor of mortality after transcatheter aortic valve implantation than a pre-implantation history of heart failure?** P484
 – R. Gonzalez Ferreira, D. Lopez Otero, A. Cid Menendez, D. Iglesias Alvarez, L. Alvarez Rodriguez, X. Sanmartin Pena, A.B. Cid Alvarez, R. Trillo Nouche, J.R. Gonzalez Juanatey (Santiago de Compostela, ES)
- Influence of acute kidney injury on the clinical outcome after transcatheter aortic valve replacement in patients with aortic stenosis.** P485
 – A.J. Munoz Garcia, E. Munoz-Garcia, M. Munoz-Garcia, A.J. Dominguez-Franco, F. Carrasco-Chinchilla, J.J. Gomez-Doblas, J.H. Alonso-Brales, M.F. Jimenez-Navarro, J.M. Hernandez-Garcia, E. De Teresa-Galvan (Málaga, ES)
- Incidence and consequences of non-cardiac incidentalomas on pre-procedural imaging in the work-up for transcatheter aortic valve implantation, renal sympathetic denervation and mitraclip implantation.** P486
 – L. Feyz, N. El Faquir, M.E. Lemmert, K. Ramdat Misier, L. Van Zandvoort, N.M. Van Mieghem, J. Daemen (Rotterdam, NL)
- Pulmonary vein stenosis after ablation treated by stent implantation - long term outcome.** P487
 – P. Schuster, E.J. Packer, S. Sandberg, E. Iversen, Ø. Bleie, P.I. Hoff (Bergen, NO)
- Impaired endothelial glycocalyx and arterial elastic properties result in abnormal left atrial and ventricular strain in patients with cryptogenic stroke: a causative mechanism?** P488
 – I. Ikonomidis, A.R. Vrettou, A. Frogoudaki, D. Vlastos, D. Benas, M. Varoudi, G. Kostelli, H. Triantafyllidi, K. Voumvourakis, E. Kalogeris, L. Stefanis, G. Tsvigoulis, J. Lekakis (Athens, GR)
- PCI – LONG-TERM OUTCOME**
- Post-discharge myocardial infarction after percutaneous coronary intervention: incidence, risk factors, size distribution and its prognostic significance.** P489
 – H. Watanabe, T. Morimoto, H. Shiomi, Y. Yoshikawa, T. Kato, N. Saito, S. Shizuta, K. Yamaji, K. Ando, S. Kaji, Y. Furukawa, M. Akao, Y. Nakagawa, K. Kadota, T. Kimura (Kyoto, Nishinomiya, Kitakyushu, Kobe, Tenri and Kurashiki, JP)
- Clinical utility of noninvasive peri-stent contrast staining derived from coronary computed tomographic angiograms for lesions after coronary stent implantation.** P490
 – K. Ishibuchi, K. Fujii, S. Otsuji, S. Takiuchi, K. Hasegawa, H. Tamaru, R. Ishii, W. Yamamoto, M. Yabuki, M. Ibuki, S. Nagayama, Y. Higashino (Takarazuka, JP)

- Different prognostic impact of pre-percutaneous coronary intervention TIMI flow in ST and non-ST elevation myocardial infarction patients: results from the FAST-MI 2010 registry.** P491
– E. Puymirat, N. Aïssouï, C. Bailleul, G. Cayla, J.G. Dillinger, B. Jouve, F. Schiele, E. Drouet, J. Ferrieres, T. Simon, N. Danchin (Paris, Nîmes, Aix-en-Provence, Besançon and Toulouse, FR)
- Impact of BMI on clinical outcomes and readmissions after cardiac catheterization in the USA.** P492
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07:30–08:15 Dali - The Hub		
DILEMMAS IN CORONARY INTERVENTIONS		Cardiology@breakfast
Chairperson(s): D. Capodanno (Catania, IT)		
07:30	STEMI with multivessel diseases: do we need to fix it all?	909
	– L. Holmvang (Copenhagen, DK)	
07:52	Role of coronary imaging in multivessel diseases.	910
	– P. Kala (Brno, CZ)	
07:30–08:15 Gaudi - The Hub		Today on ESC TV
CAREER COUNSELLING – BE PROACTIVE AND LISTEN TO THE CHAMPIONS		Cardiologists of Tomorrow
Chairperson(s): M. Pazdernik (Prague, CZ)		
07:30	Expectations, dreams and reality for young doctors - Do not get lost.	911
	– S. Cassese (Munich, DE)	
07:52	How to combine a clinical and scientific career at an early stage.	912
	– D. Scherr (Graz, AT)	
07:30–08:15 Goya - The Hub		
THE UK 100,000 GENOME PROJECT		Cardiology@breakfast
Science@breakfast		
Chairperson(s): J.D. Pearson (London, UK)		
07:30	The UK 100,000 genome project - Introduction.	913
	– J.D. Pearson (London, UK)	
07:52	The UK 100,000 genome project: a cardiovascular perspective.	914
	– M. Caulfield (London, UK)	
07:30–08:15 Miro - The Hub		
PUTTING NOACS IN REVERSE		Cardiology@breakfast
Chairperson(s): D. Tsekoura (Athens, GR)		
07:30	Do NOAC reversal agents change the game? Of course.	915
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07:52	Do NOAC reversal agents change the game? They certainly don't!	916
	– S. Wassmann (Munich, DE)	
07:30–08:15 Picasso - The Hub		
CLINICAL GUIDANCE IN CARDIO-ONCOLOGY		Cardiology@breakfast
Chairperson(s): G. Minotti (Rome, IT)		
07:30	How do cancer drugs damage the heart?	917
	– A.R. Lyon (London, UK)	
07:52	Managing cardiotoxicity: the “Top Ten” of practical advice.	918
	– D. Cardinale (Milan, IT)	
08:30–10:00 Barcelona - Main Auditorium		Today on ESC TV
ESC GUIDELINES 2017 – OVERVIEW		ESC Clinical Practice Guidelines
Main Session		
Chairperson(s): J.-P. Collet (Paris, FR); S. Windecker (Bern, CH)		
08:30	AMI-STEMI - Part 1.	919
	– S. James (Uppsala, SE)	
08:41	AMI-STEMI - Part 2.	920
	– B. Ibanez (Madrid, ES)	
08:52	Peripheral arterial diseases - Part 1.	921
	– V. Aboyans (Limoges, FR)	
09:03	Peripheral arterial diseases - Part 2.	922
	– J.B. Ricco (Poitiers, FR)	
09:14	Focused update on dual anti-platelet therapy.	923
	– M. Valgimigli (Bern, CH)	
09:36	Valvular heart disease - Part 1.	924
	– V. Falk (Berlin, DE)	
09:47	Valvular heart disease - Part 2.	925
	– H. Baumgartner (Münster, DE)	

08:30–10:00 | Spotlight Stage

 Vote & Ask a Question

LEFT ATRIAL APPENDAGE OCCLUSION

Great Debate

Chairperson(s): H. Heidbuchel (Antwerp, BE); D. Hildick-Smith (Brighton, UK)

08:30	Why do we have a left atrial appendage? – D.J. Lakkireddy (Kansas City, US)	926
08:45	LAA closure is ready for prime time - PRO. – H. Sievert (Frankfurt, DE)	927
09:05	LAA closure is ready for prime time - CON. – J. Mandrola (Louisville, US)	928
09:25	LAA closure is ready for prime time - Rebuttal PRO. – H. Sievert (Frankfurt, DE)	929
09:30	LAA closure is ready for prime time - Rebuttal CON. – J. Mandrola (Louisville, US)	930
09:35	Left atrial appendage occlusion - Moderated discussion.	931
09:50	Left atrial appendage occlusion - Chairperson conclusion. – H. Heidbuchel (Antwerp, BE)	932

08:30–10:00 | Dali - The Hub

 Vote & Ask a Question

ARE VASODILATORS USEFUL IN THE TREATMENT OF ACUTE HEART FAILURE?

Great Debate

Chairperson(s): F. Ruschitzka (Zurich, CH); G.S. Filippatos (Athens, GR)

08:30	Positioning of the topic - Early injury/early intervention in acute heart failure. – G.S. Filippatos (Athens, GR)	933
08:45	Vasodilators are useful in the treatment of acute heart failure - PRO. – J.R. Teerlink (San Francisco, US)	934
09:05	Vasodilators are useful in the treatment of acute heart failure - CON. – M. Packer (Dallas, US)	935
09:25	Vasodilators are useful in the treatment of acute heart failure - Rebuttal PRO. – J.R. Teerlink (San Francisco, US)	936
09:30	Vasodilators are useful in the treatment of acute heart failure - Rebuttal CON. – M. Packer (Dallas, US)	937
09:35	Are vasodilators useful in the treatment of acute heart failure? Moderated discussion.	938
09:50	Are vasodilators useful in the treatment of acute heart failure? Chairperson conclusion. – F. Ruschitzka (Zurich, CH)	939

08:30–10:00 | Gaudi - The Hub

Cardiologists of Tomorrow

 Vote & Ask a Question

CARDIOLOGY DETECTIVES: ARRHYTHMIA AND CARDIAC IMAGING QUIZ

Special Session

Chairperson(s): J. Kautzner (Prague, CZ); K.A. Krychtiuk (Vienna, AT)

08:30	ECG in the intensive care unit: fast and furious. – P. Peichl (Prague, CZ)	940
08:52	Implantable devices: let's troubleshoot them! – S.M.A. Sohaib (London, UK)	941
09:15	Great mysteries in cardiac imaging. – R. Fontes Carvalho (Porto, PT)	942
09:37	Valvular curiosities. – J. Grapsa (London, UK)	943

08:30–10:00 | Goya - The Hub

Scientists of Tomorrow

NON-CODING RNAS

Symposium

Chairperson(s): K. Stellos (Frankfurt, DE); M. Mericksay (Chatenay-Malabry, FR)

08:30	Role of long non-coding RNAs in vascular disease. – L. Maegdefessel (Stockholm, SE)	944
08:52	MicroRNAs and the immune system in cardiovascular diseases. – P. Ferdinandy (Budapest, HU)	945
09:15	Diagnostic and prognosis role of circulating miRNAs. – R. Wakili (Munich, DE)	946
09:37	RNA binding proteins involved in cardiomyopathies. – Y. Pinto (Amsterdam, NL)	947

08:30–10:00 | Miro - The Hub

ADVANCED HEART FAILURE – WHEN DRUGS ALONE ARE NOT ENOUGH: A CASE-BASED APPROACH Symposium

Joint with the European Society for Organ Transplantation

Chairperson(s): C. Amarelli (Naples, IT); D. Milicic (Zagreb, HR)

- 08:30 **The patient sliding on inotropes.** 948
 – A. Zuckermann (Vienna, AT)
- 08:52 **Right ventricular failure: LVAD, temporary RVAD or BiVAD?** 949
 – A. Ruhparwar (Heidelberg, DE)
- 09:15 **When to refer a patient for heart transplant or LVAD: a stepwise approach.** 950
 – L. Potena (Bologna, IT)
- 09:37 **Palliation and end of life care in end-stage heart failure.** 951
 – J. Riley (London, UK)

08:30–10:00 | Picasso - The Hub

FROM TELOMERE LENGTH TO MACHINE LEARNING – NEWS IN RISK PREDICTION Rapid Fire Abstract

Chairperson(s): C. Erol (Ankara, TR); To be announced

- 08:30 **Telomere length is associated with serum antioxidant levels in US adults.** 952
 – M. Mazidi, A.P. Kengne, L.J. Cheskin, M. Banach (Beijing, CN; Cape Town, ZA; Baltimore, US; Lodz, PL)
- 08:39 **Radiation and non-radiation risk factors including polymorphism rs966221 of phosphodiesterase 4D gene and coronary heart disease development in clean-up workers of the Chernobyl accident.** 953
 – D.A. Belyi, G. Pleskach, O. Bazyka, O. Nastina, A. Chumak, I. Abramenko (Kiev, UA)
- 08:48 **Which elements of the complete blood count can predict the incidence of cardiovascular disease? the EPIC-NL cohort study.** 954
 – C. Lassale, A. Curtis, I. Abete, Y.T. Van Der Schouw, W.M. Verschuren, Y. Lu, H.B. Bueno-De-Mesquita (London, UK; Pamplona, ES; Utrecht and Bilthoven, NL)
- 08:57 **Early coronary arteries atherosclerosis in young patients with seronegative spondyloarthropathies, coronary computed tomography angiography study.** 955
 – P. Ozdowska, L. Wardziak, M. Kruk, C. Kepka, I. Kowalik, H. Szwed, P. Gluszek, R. Rupinski, B. Kwiatkowska, K. Sikorska-Siudek, R. Dabrowski (Warsaw, PL)
- 09:06 **High-sensitivity troponin I predicts the risk of adverse outcomes in patients with chronic kidney disease.** 956
 – S. Lee, J. Khambhati, P. Sandesara, W. O'Neal, A. Samman Tahhan, S. Hayek, M. Hammadah, M. Mohammad-Kelli, M. Topel, A. Alkhdar, H. Aida, K. Chivukula, L. Sperling, A. Quyyumi (Atlanta, US)
- 09:15 **Evaluation of coronary artery calcium score for statin treatment strategy according to ESC guidelines in Asymptomatic asian adults.** 957
 – J.H. Lee, D. Han, A. Rizvi, H. Gransar, H.E. Park, S.Y. Choi, J. Sung, S.H. Park, H.W. Han, H.O. Jung, E.J. Chun, H.J. Chang (Seoul, KR; New York and Los Angeles, US)
- 09:24 **The Duke treadmill score in assessing the prognosis of patients tested with bicycle ergometer.** 958
 – E. Salokari, J. Laukkanen, M. Kahonen, S. Kurl, J. Viik, S. Kunutsor, T. Lehtimaki, T. Koobi, F. Zaccardi, R. Lehtinen, K. Nikus, T. Nieminen (Helsinki, Kuopio and Tampere, FI; Bristol and Leicester, UK)
- 09:33 **Coronary artery disease risk according to genetic risk score deciles, Age and cardiovascular risk factors.** 959
 – A. Pereira, M. Neto, R. Rodrigues, J. Monteiro, A.C. Sousa, S. Freitas, E. Henriques, S. Borges, A.I. Freitas, I. Ornelas, D. Pereira, R. Palma Dos Reis, M.I. Mendonca (Funchal and Lisbon, PT)
- 09:42 **Plaque screening indicates major opportunities for improved cardiovascular disease prevention in subjects screened with the ESC-SCORE tool: results from the STAAB program.** 960
 – J. Kirchhof, L. Mueller-Scholden, V. Ruecker, C. Morbach, M. Cramer, M. Wagner, R. Meijer, T. Tiffe, P.U. Heuschmann, S. Stoerk (Würzburg, DE; Utrecht, NL)
- 09:51 **Machine learning algorithm to predict all-cause mortality in asymptomatic healthy population: comparison with conventional risk prediction approach.** 961
 – D. Han, K. Koll, H. Gransar, J.H. Lee, S.Y. Choi, E.J. Chun, J. Sung, H.W. Han, S.H. Park, H.O. Jung, J. Min, H.J. Chang (Seoul, KR; New York and Los Angeles, US)

08:30–10:00 | Agora 1 - Agora

CONTEMPORARY MANAGEMENT OF RISK FACTORS IN CONGENITAL HEART DISEASE		Rapid Fire Abstract
	Chairperson(s): J.W. Roos-Hesselink (Rotterdam, NL); P. Hoffman (Warsaw, PL)	
08:30	Acquired cardiovascular disease in adults with congenital heart disease.	962
	– J.M. Kuijpers, C.H. Vaartjes, J.P. Bokma, B.J.M. Mulder, B.J. Bouma (Amsterdam and Utrecht, NL)	
08:39	Atherosclerotic risk factors are associated with coronary artery disease but not with ischemic stroke in adults with congenital heart disease.	963
	– J.P. Bokma, I. Zegstroom, J.M. Kuijpers, T.C. Konings, R.R. Van Kimmenade, J.P. Van Melle, P. Kies, B.J. Mulder, B.J. Bouma (Amsterdam, Nijmegen, Groningen and Leiden, NL)	
08:48	Experience in the management of abnormal origin of coronary artery from the opposite sinus at childhood age.	964
	– P.Y. Courand, A. Bozio, M. Veyrier, M. Bakloul, C. Galoin Bertail, J. Ninet, L. Bousset, S. Di Filippo (Lyon, FR)	
08:57	Increased heart rate is independently associated with worse survival in pediatric patients with dilated cardiomyopathy: a multicenter study from the pediatric cardiomyopathy registry.	965
	– J. Rossano, P. Kantor, R. Shaddy, L. Shi, J. Wilkinson, J. Jefferies, C. Depre, H. Wirtz, S. Lipshultz (Philadelphia, Watertown, Detroit, Cincinnati and Thousand Oaks, US; Edmonton, CA)	
09:06	Long-term clinical outcomes of a randomized controlled trial comparing valsartan to placebo in patients with systemic right ventricles.	966
	– A.C. Van Dissel, M.M. Winter, T. Van Der Bom, F.J. Meijboom, H.W. Vliegen, A.P.J. Van Dijk, J.W. Roos-Hesselink, P.G. Pieper, G.T. Sieswerda, A.H. Zwinderman, B.J.M. Mulder, B.J. Bouma (Amsterdam, Utrecht, Leiden, Nijmegen, Rotterdam and Groningen, NL)	
09:15	Benefit of family screening in patients with isolated bicuspid aortic valve in a general hospital.	967
	– L. Cozijnsen, R.L. Braam, M. Bakker-De Boo, J.G. Post, H.J. Van Der Zaag-Loonen, B.J. Bouma, B.J.M. Mulder (Apeldoorn, Utrecht and Amsterdam, NL)	
09:24	Prevalence of bicuspid aortic valve and associated aortopathy in 7000 newborns estimated by systematic echocardiographic screening.	968
	– A.S. Sillesen, C.A. Pihl, K. Juul, F.S. Joergensen, D.L. Jeppesen, M. Hedegaard, H.J. Zingenberg, K. Sundberg, P.S. Olsen, L. Soendergaard, H. Boyd, N. Vejstrup, K. Iversen, A. Axelsson, H. Bundgaard (Copenhagen, DK)	
09:33	Pregnancy outcomes in a cohort of women with a Fontan repair: a UK multicentre study.	969
	– M. Cauldwell, P. Steer, L. Coats, K. Hodson, C. Head, A. Jakes, S. Bonner, L. Maudin, D. Abraham, K. English, N. Walker, M. Simpson, A. Bolger, F. Siddiqui, M. Johnson (London, Newcastle-upon-Tyne, Manchester, Norwich, Leeds, Glasgow and Leicester, UK)	
09:42	Pregnancy in adults with congenital heart disease in England: birth rate and delivery practices between 1997 and 2014.	970
	– A.H. Constantine, A. Kempny, L. Swan, M.A. Gatzoulis, S.J. Wort, K. Dimopoulos (London, UK)	
09:51	The burden of reinterventions after common arterial trunk repair in infants: contemporary results from a national database.	971
	– D.M. Dorobantu, M.T.A. Sharabiani, R. Pandey, G.D. Angelini, A.J. Parry, M. Caputo, S.C. Stoica (Bristol and London, UK)	

08:30–10:00 | Agora 2 - Agora

MECHANISMS OF ARRHYTHMIAS

Rapid Fire Abstract

Chairperson(s): J.L. Lin (Taipei, TW); P.G.A. Volders (Maastricht, NL)

- 08:30 **Novel intracellular transport-refractory mutations in KCNH2 identified in symptomatic long QT syndrome patients.** 972
 – D. Fukumoto, S. Ohno, Y. Wada, Y. Fujii, M. Ichikawa, K. Takayama, M. Fukuyama, T. Makiyama, H. Itoh, W.G. Ding, H. Matsuura, M. Horie (Otsu and Kyoto, JP)
- 08:39 **VEGF-B induces cardiac arrhythmias by stimulating sympathetic nerve growth in the myocardium.** 973
 – J. Lahteenvuo, O.-P. Hatinen, A. Kuivaniemi, J. Huusko, J. Paananen, M. Lahteenvuo, M. Hedman, S. Yla-Herttua (Kuopio, FI)
- 08:48 **Human iPS cell-derived cardiac tissue to reproduce “Torsade de Pointes” arrhythmia in vitro.** 974
 – M. Kawatou, H. Masumoto, H. Fukushima, G. Morinaga, R. Sakata, T. Ashihara, J.K. Yamashita (Kyoto, Kobe and Shiga, JP)
- 08:57 **Epicardial breakthrough waves during sinus rhythm: depiction of the arrhythmogenic substrate?** 975
 – E.M.J.P. Mouws, E.A.H. Lanfers, C.P. Teuwen, J.M.E. Van Der Does, C. Kik, P. Knops, J.A. Bekkers, A.J.J.C. Bogers, N.M.S. De Groot (Rotterdam, NL)
- 09:06 **Adenosine A2A receptor activation induces afterdepolarizations in human atrial myocytes by selectively increasing the calcium spark frequency near the sarcolemma.** 976
 – C. Tarifa, A. Herraiz-Martinez, V. Jimenez-Sabado, J. Montiel, J. Cinca, L. Hove-Madsen (Barcelona, ES)
- 09:15 **Infiltration of epicardial adipose tissue into atrial myocardium is associated with inflammatory atrial fibrosis via ANGPTL2-induced qualitative alteration of epicardial adipose tissue.** 977
 – I. Abe, Y. Teshima, S. Miyamoto, N. Takahashi (Oita, JP)
- 09:24 **Characterization of the novel mutant A78T-HERG from a long QT syndrome type2 patient: Instability of the mutant protein and stabilization by heat shock protein family and heat shock factor-1.** 978
 – T. Kondo, M. Kimura, M. Nakayama, O. Matsuda (Hiroshima, JP)
- 09:42 **Human atrial myocardial secretome is a potent inducer of adipogenic differentiation of epicardial resident progenitors.** 979
 – N. Suffee, T. Moore Moris, P. Farahmand, G. Dilanian, I. Dugail, M. Puceat, N. Hatem (Paris and Marseille, FR)
- 09:51 **How stable are localized sources in atrial fibrillation? Shedding light on underlying Mechanisms of persistent atrial fibrillation.** 980
 – C. Kowalewski, G. Meckler, F. Shenasa, T. Baykaner, J.A.B. Zaman, M. Alhuseini, S. Hossainy, R. Navarra, G. Leef, M. Viswanathan, S. Park, D. Krummen, J. Brachmann, P. Wang, S. Narayan (Stanford and San Diego, US; Coburg, DE)

08:30–10:00 | Dublin - Village 1

EMERGING ROLES FOR THE IMMUNE SYSTEM IN CARDIAC INJURY AND REPAIR

Symposium

Chairperson(s): F.B. Engel (Erlangen, DE); J.D. Pearson (London, UK)

- 08:30 **Preparing the ground for cardiac tissue regeneration: deciphering the role of innate and adaptive immunity.** 981
 – J. Leor (Tel Hashomer, IL)
- 08:52 **Macrophages and cardiac tissue regeneration.** 982
 – J.-S. Silvestre (Paris, FR)
- 09:15 **The cellular immune system in the post-myocardial infarction repair process.** 983
 – C.J.M. Vrints (Edegem, BE)
- 09:37 **Cells or chemokines for cardiac repair?** 984
 – P. Menasche (Paris, FR)

08:30–10:00 | Fira - Village 1

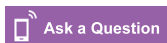
SILVER LININGS ON THE HORIZON OF CELL THERAPY

Symposium

Chairperson(s): J.J. Badimon (New York, US); A. Bayes Genis (Badalona, ES)

- 08:30 **Controlling host tissue-guest cell interactions.** 985
 – A.A. Ramkisoensing (The Hague, NL)
- 08:52 **Modification of sudden death substrates.** 986
 – A. Arenal Maiz (Madrid, ES)
- 09:15 **Managing innovation in cell therapy.** 987
 – A. Terzic (Rochester, US)
- 09:37 **ACCRUE and cell-based therapy metanalysis.** 988
 – M. Gyongyosi (Vienna, AT)

08:30–10:00 | Astana - Village 2



PROBLEMS WITH STATIN TREATMENT

Expert Advice

Chairperson(s): C. Torp-Pedersen (Aalborg, DK); V.L. Serebruany (West Friendship, US)

- 08:30 **Statin side effects from the muscle to the liver and the brain.** 989
– A.K. Gitt (Ludwigshafen, DE)
- 08:55 **Strategies to react to “statin intolerance”.** 990
– P. Thompson (Hartford, US)
- 09:20 **How to improve physician and patient adherence to statin therapy?** 991
– A. Vonbank (Feldkirch, AT)
- 09:45 **Panel discussion: dealing with statin side effects - Practical advice and questions from the audience.** 992

08:30–10:00 | Pristina - Village 2

ARRHYTHMIAS IN HYPERTENSION

Symposium

Chairperson(s): E.V. Shlyakhto (St. Petersburg, RU); B. Williams (London, UK)

- 08:30 **Common arrhythmias in hypertension: pathophysiology and consequences.** 993
– S. Potpara (Belgrade, RS)
- 08:52 **Dilemmas in managing atrial fibrillation in hypertension.** 994
– A.J. Manolis (Voula and Athens, GR)
- 09:15 **EHRA/Council on Hypertension: consensus statement on atrial fibrillation in hypertension.** 995
– G.Y.H. Lip (Birmingham, UK)
- 09:37 **Panel discussion: arrhythmias in hypertension.** 996

08:30–10:00 | Beirut - Village 3

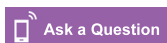
HOW TO USE CARDIAC CT: LESSONS FROM LARGE CLINICAL TRIALS

Symposium

Chairperson(s): S.R. Underwood (London, UK); F.Y. Lin (New York, US)

- 08:30 **PLATFORM and RIPCARD: can FFR-CT avoid unnecessary coronary angiography?** 997
– J. Leipsic (Vancouver, CA)
- 08:52 **CONFIRM: the most important lessons for cardiac CT - and cardiology in general.** 998
– J.K. Min (New York, US)
- 09:15 **EVINCI and PACIFIC: CT versus other modalities.** 999
– D. Neglia (Pisa, IT)
- 09:37 **PROMISE and SCOT-HEART: CT as good as functional tests - or even better?** 1000
– D.E. Newby (Edinburgh, UK)

08:30–10:00 | Riga - Village 3



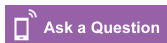
IMPACT OF INFORMATION TECHNOLOGY SOLUTIONS ON CARDIOVASCULAR CARE

Symposium

Chairperson(s): P. Kearney (Cork, IE); M.J. Schalij (Voorschoten, NL)

- 08:30 **Mobile technology to identify atrial fibrillation in the general population.** 1001
– E.G. Caiani (Milan, IT)
- 08:52 **Remote monitoring of cardiovascular implantable electronic devices and longterm ECG monitors: impact on prognosis and cost-effectiveness.** 1002
– P.E. Dilaveris (Athens, GR)
- 09:15 **Telemonitoring in heart failure patients: impact on hospital admissions and on mortality.** 1003
– M.R. Cowie (London, UK)
- 09:37 **Hypertension control: smartphone applications and dedicated software.** 1004
– G. Parati (Milan, IT)

08:30–10:00 | Chisinau - Village 4



POPULATION-WIDE BLOOD PRESSURE LOWERING – THEORY AND PRACTICE

Symposium

Joint with the International Society of Hypertension

Chairperson(s): K. Sliwa-Hahnle (Cape Town, ZA); B. Neal (Sydney, AU)

- 08:30 **General principles of population-based interventions.** 1005
– T. Joergensen (Glostrup, DK)
- 08:52 **Population-wide blood pressure lowering in low and middle income countries: how can it be done?** 1006
– A.E. Schutte (Potchefstroom, ZA)
- 09:15 **Results of a global awareness and screening programme for hypertension.** 1007
– N.R. Poulter (London, UK)
- 09:37 **Salt and diet in the context of blood pressure.** 1008
– N. Graudal (Copenhagen, DK)

08:30–10:00 | Vilnius - Village 4


ESC GEOFFREY ROSE LECTURE ON POPULATION SCIENCES		Named Lecture
Chairperson(s): D.E. Grobbee (Utrecht, NL); S. Yusuf (Hamilton, CA)		
08:30	Presentation of the awardee. – D.E. Grobbee (Utrecht, NL)	1009
08:35	Can we eradicate premature cardiovascular deaths? – S. Capewell (Liverpool, UK)	1010
09:00	Diploma by the chairpersons. – S. Yusuf (Hamilton, CA)	1011
YOUNG INVESTIGATOR AWARDS SESSION POPULATION SCIENCES		Young Investigator Awards Abstracts
Chairperson(s): S. Matskeplishvili (Moscow, RU); P. Marques-Vidal (Lausanne, CH)		
Judge(s): G. De Backer (Sint Martens Latem, BE); I.M. Graham (Wicklow, IE); D.A. Wood (London, UK)		
09:10	Is dairy product intake related to risk of type 2 diabetes? A pan-European Mendelian Randomisation study. – L. Vissers, I. Sluijs, F. Imamura, N.G. Forouhi, Y.T. Schouw (Utrecht, NL; Cambridge, UK)	1012
09:25	Diagnostic and prognostic benefits of CTCA using the updated NICE guidance: An analysis of the Scottish computed tomography of the heart (SCOT-HEART) trial. – P. Adamson, A. Hunter, A. Shah, D. McAllister, T. Pawade, M. Williams, M. Dweck, N. Mills, C. Berry, M. Flather, J. Forbes, G. Roditi, E. Van Beek, A. Timmis, D. Newby (Edinburgh, Glasgow, Norwich and London, UK; Limerick, IE)	1013
09:40	Impact of CHA2DS2-VASc and HAS-BLED SCORES on oral anticoagulant use and outcomes in patients with atrial fibrillation and concomitant heart failure: an analysis of 22,055 patients from the SwedeHF. – G. Savarese, L. Friberg, M. Rosenqvist, U. Dahlstrom, L. Lund (Stockholm and Linköping, SE)	1014
09:55	Cardiovascular risks associated with diclofenac initiation: a nationwide emulated randomized trial. – M. Schmidt, H.T. Sorensen, L. Pedersen (Aarhus, DK)	1015
<i>Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub</i>		

08:30–10:00 | Skopje - Village 5

GENETICS OF SUDDEN CARDIAC DEATH		Symposium
Joint with the European Society of Human Genetics		
Chairperson(s): B. Loeys (Antwerp, BE); S.G. Priori (Pavia, IT)		
08:30	Ethical, legal and practical aspects of post-mortem genetic analysis for sudden cardiac death in young adults. – F. Fellmann (Lausanne, CH)	1016
08:52	Genetic testing for inherited aortopathy: how does it influence our diagnosis and management strategy? – B. Loeys (Antwerp, BE)	1017
09:15	Genetics of cardiomyopathies. – L. Monserrat (A Coruña, ES)	1018
09:37	Genetics of channelopathies. – A.A.M. Wilde (Amsterdam, NL)	1019

08:30–10:00 | Valetta - Village 5

CARDIOMYOPATHY, SUDDEN CARDIAC DEATH AND ICD		Expert Advice
Chairperson(s): E. Hoffmann (Munich, DE); J.E. Udelson (Boston, US)		
08:30	Sudden death in cardiomyopathy - Why? – W. Levy (Seattle, US)	1020
08:52	ICD – The success story. – D.B. Mark (Durham, US)	1021
09:15	ICD – When are they not needed? – L. Kober (Copenhagen, DK)	1022
09:37	Nuclear imaging to risk stratify for sudden death. – F.M. Bengel (Hannover, DE)	1023

 Ask a Question

08:30–10:00 | Bishkek - Village 6

BIORESORBABLE VASCULAR SCAFFOLDS: LIVING UP TO THE EXPECTATIONS?

	Chairperson(s): A. Abizaid (São Paulo, BR); J.J. Wykrzykowska (Abcoude, NL)	
08:30	Lessons learned from first generation polymeric BRS. – T. Gori (Mainz, DE)	1024
08:52	New developments in BRS technology: update 2017. – M. Haude (Neuss, DE)	1025
09:15	How to implement BRS technology into current clinical practice. – P.W.J.C. Serruys (Rotterdam, NL)	1026
09:37	Panel discussion: bioresorbable vascular scaffolds: living up to the expectations?	1027



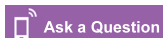
Symposium

08:30–10:00 | Luxembourg - Village 6

WHAT CARDIOLOGISTS NEED TO KNOW ABOUT STROKE

Council on Stroke

	Chairperson(s): C. Chordonnier (Lille, FR); W. Doehner (Berlin, DE)	
08:30	Stroke types and their diagnosis. – H.B. van der Worp (Utrecht, NL)	1028
08:45	Embolic stroke of undetermined source (ESUS). – M. Rubiera (Barcelona, ES)	1029
09:00	Antithrombotics and stroke - Acute phase, secondary prevention, primary prevention. – R.F. Storey (Sheffield, UK)	1030
09:15	European recommendations for acute stroke intervention (EUROICAS). – M. Mazighi (Paris, FR)	1031
09:30	Interventional cardiology procedures in stroke prevention (LAAO, PFOO). – P. Widimsky (Prague, CZ)	1032
09:45	Can atrial electrophysiologic ablation procedures prevent stroke? – A.J. Camm (London, UK)	1033



Symposium

08:30–10:00 | Podgorica - Village 6

ACUTE AORTIC DISSECTION: FROM PATHOLOGY TO THE CLINIC

Joint with the Association for European Cardiovascular Pathology

	Chairperson(s): F. Sellke (Providence, US); M.N. Sheppard (London, UK)	
08:30	New pathological classification of aortic diseases. – A.C. Van Der Wal (Amsterdam, NL)	1034
08:52	Bicuspid aortic valve and aortic dissection: genetics, pathological and clinical aspects. – C. Basso (Padua, IT)	1035
09:15	The role of imaging in the acute aortic syndromes. – R. Erbel (Essen, DE)	1036
09:37	Indications and timing of surgery for acute aortic syndromes. – M. Grabenwoeger (Vienna, AT)	1037

Symposium

08:30–10:00 | Oslo - Village 7

PERCUTANEOUS INTERVENTIONAL THERAPIES FOR PULMONARY HYPERTENSION

Joint with the Chinese Heart Foundation/Great Wall International Congress of Cardiology (GWICC)

	Chairperson(s): Y.J. Wu (Beijing, CN); M. Komajda (Paris, FR)	
08:30	Pulmonary artery denervation. – S. Chen (Nanjing, CN)	1038
08:52	Balloon atrial septostomy. – J. Sandoval (Mexico City, MX)	1039
09:15	Refined balloon pulmonary angioplasty. – Z.-C. Jing (Beijing, CN)	1040
09:37	Mechanical support in pulmonary hypertension. – M.M. Hoepfer (Hannover, DE)	1041



Symposium

08:30–10:00 | Rabat - Village 7

CARDIAC ANATOMY FOR INTERVENTIONAL CARDIOLOGISTS

	Chairperson(s): A. Angelini (Padua, IT); S. Ernst (London, UK)	
08:30	Live video demonstration. – S.Y. Ho (London, UK)	1042
09:30	Hands-on specimen demonstration.	1043



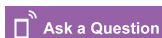
Cardiac Anatomy and Pathology Live

08:30–10:00 | Bucharest - Village 8

CARDIOGENIC SHOCK UPDATE

Chairperson(s): M. Noc (Ljubljana, SI); D. Zahger (Beer Sheva, IL)

08:30	Cardiogenic shock - Pathophysiology.	1044
	– C.J.M. Vrints (Edegem, BE)	
08:52	Cardiogenic shock - How to monitor the patient.	1045
	– A. Mebazaa (Paris, FR)	
09:15	Cardiogenic shock - Which catecholamine?	1046
	– A. Sionis (Barcelona, ES)	
09:37	Cardiogenic shock - Mechanical assist devices.	1047
	– S. Price (London, UK)	



Expert Advice

08:30–10:00 | Tripoli - Village 8

TREATMENT OF REFRACTORY ANGINA PECTORIS: ADVICE FOR THE CLINICIAN

Symposium

Chairperson(s): W. Wijns (Brussels, BE); A. Demin (Novosibirsk, RU)

08:30	End stage coronary artery disease with normal left ventricular function.	1048
	– H. Samady (Atlanta, US)	
08:52	Treatment of angina: safety and efficacy of devices to narrow the coronary sinus.	1049
	– P. Agostoni (Nieuwegein, NL)	
09:15	Refractory angina: is there any role for cell therapy?	1050
	– J. Hare (Baltimore, US)	
09:37	Panel discussion: treatment of refractory angina pectoris.	1051

08:30–10:00 | Lisbon - Village 9

CONTROVERSIES IN CARDIAC RESYNCHRONISATION THERAPY

Symposium

Chairperson(s): K. Heist (Boston, US); P. Seferovic (Belgrade, RS)

08:30	The tale of QRS width and morphology in the context of CRT.	1052
	– C. Linde (Stockholm, SE)	
08:52	How to improve the response to CRT.	1053
	– C.M. Yu (New Territories, HK)	
09:15	Should we abandon ejection fraction as indication for CRT?	1054
	– K. Dickstein (Stavanger, NO)	
09:37	Panel discussion: controversies in cardiac resynchronisation therapy.	1055



08:30–09:30 | Warsaw - Village 9

YOUNG INVESTIGATOR AWARDS SESSION CORONARY PATHOPHYSIOLOGY AND MICROCIRCULATION

Young Investigator Awards Abstracts

Chairperson(s): D.J. Duncker (Rotterdam, NL); M. Dorobantu (Bucharest, RO)

Judge(s): J. Cubedo (Barcelona, ES); D. Tousoulis (Athens, GR); T. Padro (Barcelona, ES)

08:30	The eye-mi study: a prospective acute coronary syndrome cohort evaluated by retinal optical coherence tomography angiography.	1056
	– A. Azemar, L. Arnould, C. Guenancia, C. Meillon, M. Zeller, F. Bichat, A. Bron, C. Creuzot-Garcher, Y. Cottin (Dijon, FR)	
08:45	Important prognostic impact of comorbid coronary microvascular dysfunction in patients with vasospastic angina.	1057
	– A. Suda, J. Takahashi, K. Hao, Y. Kikuchi, T. Shindo, M. Komatsu, Y. Odaka, Y. Matsumoto, S. Miyata, Y. Sakata, H. Shimokawa (Sendai, JP)	
09:00	Remote ischaemic preconditioning causes rapid increase in coronary flow reserve and reduction in microcirculatory resistance.	1058
	– J.K.E. Lau, A. Javadzadegan, P. Roy, H. Lowe, D. Brieger, L. Kritharides, A. Yong (Sydney, AU)	
09:15	Evidence for enhanced inflammation of coronary adventitia and perivascular adipose tissue in patients with vasospastic angina -A multi-modality imaging study-	1059
	– K. Ohyama, Y. Matsumoto, K. Takanami, H. Ota, K. Nishimiya, J. Sugisawa, H. Amamizu, H. Uzuka, A. Suda, T. Shindo, Y. Kikuchi, K. Hao, J. Takahashi, Y. Sakata, H. Shimokawa (Sendai, JP)	

Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub

10:05–10:55 | Valetta - Village 5

LATE-BREAKING ESC REGISTRY RESULTS

Registry Session

Chairperson(s): P. Kearney (Cork, IE); A. Vahanian (Paris, FR)

10:05	Physicians guideline adherence is associated with better long-term prognosis in outpatients with heart failure with reduced ejection fraction (HFrEF): the prospective international QUALIFY registry.	1060
	– M. Komajda (Paris, FR)	
10:17	EURObservational Research Programme on Atrial Fibrillation (EORP-AF) Long-Term General Registry: Analysis of Treatment with Oral Anticoagulants in More Than 11,000 Patients.	1061
	– G. Boriani (Castenaso, IT)	
10:30	Epidemiology of Atrial Fibrillation in Europe: A Comparison of the EURObservational Research Programme Atrial Fibrillation Pilot Registry and Euro Heart Survey on Atrial Fibrillation.	1062
	– M. Proietti (Birmingham, UK)	
10:42	The chronic ischemic cardiovascular disease (CICD) ESC Pilot Registry: results of the six months follow-up.	1063
	– M. Komajda (Paris, FR)	

Moderated Posters are on display from 08:30 to 12:30 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (10:05–10:55), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

10:05–10:55 | Moderated poster station - Poster Area

COMPLICATIONS AFTER CARDIAC INTERVENTIONS



Chairperson(s): P. Kala (Brno, CZ); G. Stankovic (Belgrade, RS)

	The Impact of P2Y12 Reaction Unit during Percutaneous Coronary Intervention on Intra-stent Tissues and Peri-procedural Myocardial Injury in Stable Angina Pectoris; from MECHANISM-elective study.	P1064
	– Y.T. Tsukiyama, T.S. Shinke, T.I. Itoh, M.I. Ishida, H.O. Otake, T.F. Fusazaki, T.K. Kikuchi, T.O. Okamura, T.M. Morita, T.K. Kataoka, K.H. Hibi, T.A. Akasaka, S.I. Ishihara, Y.M. Morino, K.H. Hirata (Kobe, Morioka, Tokyo, Ube, Osaka, Yokohama, Wakayama and Sakai, JP)	
	Use of routine fluoroscopic screening results in a reduction in femoral complications during coronary angiographic procedures.	P1065
	– E.V. Castle, O.P. Guttman, C.J. Knight, R. Weerackody, C.J. O'Mahony, E.J. Smith, A. Wragg, A. Mathur, D.A. Jones (London, UK)	
	The prevalence of non-access bleeding and its impact on short-term clinical outcomes in patients treated with percutaneous coronary intervention.	P1066
	– R. Fukuoka, T. Kohno, S. Kohsaka, I. Ueda, Y. Numasawa, S. Noma, M. Suzuki, K. Hayashida, S. Yuasa, Y. Maekawa, K. Fukuda (Tokyo, Tochigi and Saitama, JP)	
	The prognostic impact of bleeding in STEMI patients treated by primary PCI depends on Killip class at presentation.	P1067
	– S. Cornara, A. Somaschini, S. De Servi, G. Crimi, M. Ferlini, A. Baldo, R. Camporotondo, M. Gnechchi, L. Oltrona Visconti, G.M. De Ferrari (Pavia, IT)	
	Remote ischemic preconditioning prevents contrast induced acute kidney injury in patients with stable coronary artery disease following elective PCI: results from the multicenter randomised study.	P1068
	– H. Otsuka, T. Miyoshi, K. Ejiri, K. Kohno, M. Nakahama, M. Doi, M. Munemasa, M. Murakami, A. Takaishi, K. Nakamura, H. Ito (Okayama, Fukuyama, Takamatsu and Kanonji, JP)	
	Should we care about post-procedural troponin in elective coronary stenting?	P1069
	– M. Zeitouni, J. Silvain, M. Kerneis, O. Barthelemy, R. Choussat, M. Hauguel-Moreau, G. Helft, C. Le Feuvre, J.P. Collet, G. Montalescot (Paris, FR)	

10:05–10:55 | Moderated poster station - Poster Area

CMR IN ACUTE CORONARY SYNDROMES AND MYOCARDITIS

Moderated Posters

Chairperson(s): B.L.M. Gerber (Woluwe-St. Lambert, BE); A.C. Van Rossum (Amsterdam, NL)

Prognostic significance of remote myocardium alterations assessed by quantitative non-contrast T1 mapping in ST-elevation myocardial infarction. P1070

– S. Reinstadler, T. Stiermaier, J. Liebetrau, G. Fuernau, C. Eitel, S. De Waha, S. Desch, J.C. Reil, J. Poess, B. Metzler, C. Luecke, M. Gutberlet, G. Schuler, H. Thiele, I. Eitel (Innsbruck, AT; Lübeck and Leipzig, DE)

Unrecognized myocardial scar in areas of increased plaque burden in patients with suspected coronary artery disease. A clinical coronary CTA and CMR imaging study. P1071

– G. Gitsioudis, J. Kesselmann, A. Missiou, E. Atsiatorme, M. Bryant, E. Giannitsis, H.U. Kauczor, H.A. Katus, G. Korosoglou (Erlangen, Heidelberg and Weinheim, DE)

Myocardial creatine metabolism evaluation in patients with acute myocardial infarction with chemical exchange saturation transfer (CEST). P1072

– K.Y. Diao, Z.G. Yang, Y.K. Guo, Y. Wu, M. Ma, W.L. Peng, Q. Zhao (Chengdu and Shenzhen, CN)

Myocardial edema still remains in subacute phase after recovery of left ventricular systolic function in patients with takotsubo syndrome. P1073

– K. Kato, C. Templin, M. Daimon, I. Ishibashi, Y. Kobayashi (Zurich, CH; Chiba, JP)

Correlation between haptoglobin phenotypes and myocardial reperfusion injury in consecutive ST-elevation myocardial infarction as detected by cardiac magnetic resonance. P1074

– G. Pontone, C. Banfi, M. Guglielmo, A.I. Guaricci, A. Pasquini, C. Berzovini, A. Baggiano, F. Fazzari, D. Andreini, S. Mushtaq, N. Cosentino, G. Marenzi, E. Tremoli, M. Pepi (Milan, Bari, Rome, Turin and Palermo, IT)

Benefit of cardiac magnetic resonance imaging tissue characterization in risk profiling patients with suspected myocarditis. P1075

– C. Graeni, C. Eichhorn, L. Biere, V. Agarwal, K. Kaneko, V.L. Murthy, M. Steigner, R. Blankstein, M. Jerosch-Herold, R.Y. Kwong (Boston and Ann Arbor, US)

MR-guided endomyocardial biopsy in a preclinical in vivo model. P1076

– P. Behm, M. Gastl, A. Jahn, A. Rohde, S. Krueger, S. Weiss, B. Schnackenburg, M. Sager, K. Duering, H. Clogenson, P. Horn, R. Westenfeld, M. Kelm, M. Neizel-Wittke, F. Boenner (Düsseldorf, Hamburg and Hannover, DE)

10:05–10:55 | Moderated poster station - Poster Area

UNMET CHALLENGES IN HEART FAILURE

Moderated Posters

Chairperson(s): J. Celutkienė (Vilnius, LT); A.D. Ristic (Belgrade, RS)

High-risk cluster of multimorbidity in elderly patients hospitalised with chronic heart failure. P1077

– L. Chen, L. Busija, J. Harris, A. David, S. Booley, Y. Chan, T. Norekval, S. Stewart (Victoria and Melbourne, AU; Bergen, NO)

Short and intermediate term all-cause mortality among newly-diagnosed heart failure patients in the US medicare population. P1078

– Q. Zhao, L. Wang, P.A. Kurlansky, J. Schein, O. Baser, J. Berger (Raritan, Plano and New York, US)

Mortality data in TTS: new insights from the intertak Registry. P1079

– A. Sarcon, J. Ghadri, V. Cammann, K. Ding, K. Kato, S. Gili, C. Templin (Los Angeles, US; Zurich, CH; Turin, IT)

Modes of death in cardiac amyloidosis. P1080

– C. Binder, S. Aschauer, F. Duca, P. Stelzer, H. Agis, R. Kain, A. Kammerlander, J. Mascherbauer, D. Bonderman (Vienna, AT)

Incidence of heart failure and ischemic heart disease in patients with rheumatoid arthritis: A Danish population based study, 1995-2016. P1081

– B.B. Loegstrup, T. Ellingsen, A.B. Pedersen, A. Kjaersgaard, H.E. Botker, M. Maeng (Aarhus and Odense, DK)

The history of syncope in heart failure. Mortality increases - but not in all. P1082

– D. Hashemi, M. Blum, R. Kraft, M. Mende, S. Stoerck, C.E. Angermann, S. Pankuweit, R. Wachter, F. Edelmann, B. Pieske, H.D. Duengen (Berlin, Leipzig, Würzburg, Giessen and Göttingen, DE)

Seasonal trends in risk for patients admitted to hospital with heart failure. P1083

– S. Blecker, J.Y. Kwon, J. Herrin, J. Grady, S. Jones, L. Horwitz (New York and New Haven, US)

10:05–10:55 | Moderated poster station - Poster Area

CARDIOVASCULAR RISK PREDICTION MODELS: FOR IMPROVEMENT?

Moderated Posters

Chairperson(s): D.E. Grobbee (Utrecht, NL); M. Kavousi (Rotterdam, NL)

Incorporation of hospital outcomes into the GRACE Score improves its long-term prognostic value in acute coronary syndromes: The GRACE-Dynamic Score. P1084

– Y. Falcon Lacerda, F. O A Lopes, V. C A Correia, N. C Sa, J. G Suerdieck, M. C Carvalho, A.M. S C Junior, G. S Sodre, L. L Fonseca, F. R M Ferreira, F. K B Alexandre, A. B Silva, L. Q Kertzman, M.M. Noya Rabelo, L.C. L Correia (Salvador, BR)

Serum hyperuricemia determination improves risk prediction of GRACE score in people with acute coronary syndrome. P1085

– A. Lopez-Pineda, A. Cordero, C. Carratala-Munuera, D. Orozco-Beltran, V. Bertomeu-Gonzalez, J.A. Quesada, V.F. Gil-Guillen, A. Frutos, R. Lopez-Palop, P. Carrillo, V. Bertomeu-Martinez (San Juan de Alicante, ES)

Creating a prediction model to identify patients at high risk of undetected non-valvular atrial fibrillation. P1086

– H. Weinberg, O. Reges, M. Hoshen, M. Leibowitz, R. Balicer, M. Haim (Tel Aviv and Beer Sheva, IL)

Adding risk factors profile to pain characteristics does not increase the predictive power for coronary artery disease in chest pain patients. P1087

– S. Thiru, A. Alexopoulos, A. Chenzbraun (Liverpool, UK)

Glycemic variability, but not Hb1Ac, is associated with high SYNTAX scores at the acute phase of myocardial infarction in diabetic patients treated with insulin infusion. P1088

– M. Benalia, C. Guenancia, G. Porot, M. Zeller, F. Bichat, J.M. Petit, B. Verges, Y. Cottin (Dijon, FR)

Improving the value of clinical variables in the assessment of cardiovascular risk using Artificial Neural Networks. P1089

– L.E. Juarez-Orozco, R.J.J. Knol, C.A. Sanchez-Catasus, F.M. Van Der Zant, J. Knuuti (Turku, FI; Alkmaar and Groningen, NL)

The association of cardiac valvular calcification, protein-energy wasting and inflammation status with cardiovascular- and all-cause mortality in incident haemodialysis patients. P1090

– H. Takahashi, H. Ishii, T. Aoyama, D. Kamoi, N. Umemoto, T. Sakakibara, Y. Kumada, T. Murohara (Toyoake, Nagoya and Kasamatsu, JP)

10:05–10:55 | Moderated poster station - Poster Area

ISCHAEMIA AND PROTECTION

Moderated Posters

Chairperson(s): G. Liuzzo (Rome, IT); G. Latsios (Agia Paraskevi, GR)

Platelet serotonin aggravates myocardial reperfusion injury via degranulation. P1091

– M.M. Mauler, N.H. Herr, C.S. Schoenichen, T.W. Witsch, T.M. Marchini, C.H. Haerdtnr, C.K. Koentges, D.S. Stallmann, H.B. Bugger, D.W. Wolf, I.A. Ahrens, K.L. Ley, C.B. Bode, I.H. Hilgendorf, D.D. Duerschmied (Freiburg, DE; La Jolla, US)

ROS-dependent store-operated Ca entry does not increase diastolic Ca in isolated ventricular myocytes. P1092

– M. Goetz, C. Schach, L.S. Maier, D. Endemann, S. Wagner (Regensburg, DE)

Influence of glycogen content in mouse heart on post-MI fibrosis and cardiac remodeling. P1093

– E.P. Daskalopoulos, C. Dufey, K. Sakamoto, L. Bertrand, C. Beauloye, S. Horman (Brussels, BE; Lausanne, CH)

Myocardial ischemia-reperfusion injury is reduced in MURC/Cavin-4-deficient mice. P1094

– M. Nishi, T. Ogata, N. Nakanishi, T. Kasahara, Y. Higuchi, S. Matoba (Kyoto, JP)

Modeling of cardiac ischaemia and reperfusion injury: a human-based in vitro model using iPS-derived cardiomyocytes. P1095

– J. Pinho, N.R. Scrimgeour, T. Stolen, K. Solvang-Garten, A. Sharma, D. Miranda Fonseca, G. Smith, M. Hoydal (Trondheim, NO; Glasgow, UK)

Succinate dehydrogenase inhibition with intracoronary malonate at the onset of reperfusion reduces infarct size in pigs. P1096

– L. Valls-Lacalle, I. Barba, E. Miro-Casas, M. Ruiz-Meana, A. Rodriguez-Sinovas, D. Garcia-Dorado (Barcelona, ES)

10:05–10:55 | Moderated poster station - Poster Area

CARDIOMYOPATHY IN FABRY DISEASE

Moderated Posters

Chairperson(s): A.A. Hagege (Paris, FR); A. Linhart (Prague, CZ)

- Comprehensive cardiovascular magnetic resonance assessment of anderson-fabry cardiomyopathy-natural history and assessment of treatment effect.** P1097
 – A. Reid, A.B. Reid, C. Miller, A. Jovanovic, P. Woolfson, N. Abidin, D. Clark, W. Gamlin, G. Coutts, M. Schmitt (Manchester, UK)
- Treatment of Fabry disease with a new oral drug: Initial real-world single-center experience.** P1098
 – J. Muentze, T. Salinger, D. Oder, C. Wanner, G. Ertl, P. Nordbeck (Würzburg, DE)
- Prompt initiation of agalsidase alfa therapy is associated with improved cardiovascular outcomes in the Fabry Outcome Survey.** P1099
 – A. Linhart, D. Hughes, A. Gurevich, A. Joseph, R. Kerstens, S. Feriozzi (Prague, CZ; London, UK; Zug, CH; Hilvarenbeek, NL; Viterbo, IT)
- Efficacy of enzyme replacement therapy in Fabry disease with advanced organ involvement.** P1100
 – J. Muentze, T. Salinger, D. Oder, C. Wanner, G. Ertl, P. Nordbeck (Würzburg, DE)
- Long-term benefit of enzyme replacement therapy on cardiac manifestation in Japanese Fabry disease.** P1101
 – I. Anan, K. Hongo, K. Ito, M. Kawai, I. Taniguchi, M. Yoshimura (Tokyo, JP)
- Role of serum biomarkers for monitoring disease progression in the cardio-specific alpha-galactosidase A genotype N215S.** P1102
 – D. Oder, D. Liu, K. Hu, T. Salinger, J. Muentze, K. Lorenz, G. Ertl, C. Wanner, P. Nordbeck (Würzburg and Dortmund, DE)
- Relevance of serum globotriaosylsphingosine concentration (lyso-Gb3) for screening of Fabry disease in patients with left ventricular hypertrophy.** P1103
 – S. Yamashita, H. Sato, M. Saotome, K. Tawarahara, Y. Mochizuki, K. Mizuno, M. Matsunaga, J. Kajihara, N. Wakahara, Y. Wakabayashi, S. Ishi, H. Maruyama, H. Hayashi (Hamamatsu, Kikugawa, Iwata, Fujinomiya, Oita and Niigata, JP)

10:05–10:55 | Moderated poster station - Poster Area

INFLAMMATION, DIABETES AND THEIR INFLUENCE ON THE HEART

Moderated Posters

Chairperson(s): J.L. Lopez-Sendon (Madrid, ES); D. Sedding (Hannover, DE)

- The effect of apabetalone on attenuated coronary atherosclerotic plaque: insights from the ASSURE trial.** P1104
 – D.S. Shishikura, Y.K. Kataoka, S.H. Honda, K.T. Takata, S.K. Kim, J.A. Andrews, P.J.P. Psaltis, J.J. Johansson, N.W. Wong, S.J.N. Nicholls (Adelaide, AU; Calgary, CA)
- Recombinant insulin-like growth factor-1 improves cardiac function and symptoms in the patients on the waiting list for heart transplantation with end-stage dilated cardiomyopathy.** P1105
 – K. Komamura (Kobe, JP)
- Direct upregmentation of cholesterol efflux capacity in AMI atients: a PKPD substudy of AEGIS-I.** P1106
 – M.A. Tortorici, A. Gille, C. Liss, S. Wright, D. D'Andrea, M.K. Yee, J. Szachniewicz, S. Atar, J. Trebacz, C.M. Gibson (King of Prussia and Boston, US; Wroclaw and Krakow, PL; Nahariyya, IL)
- Metformin epigenetically regulates tissue factor expression in diabetes.** P1107
 – M. Witkowski, J. Friebel, T. Tabaraie, A. Weithauser, D. Steffens, B. Stratmann, D. Tschoepe, A. Doerner, M. Kasner, U. Landmesser, U. Rauch (Berlin and Bochum, DE)
- Effects of Tofogliflozin, an Sodium-glucose co-transporter 2 Inhibitor, on Cardiac Hypertrophy in Metabolic Model Rats.** P1108
 – T. Kimura, K. Nakamura, T. Miyoshi, M. Yoshida, Y. Saito, M. Kondo, K. Akazawa, H. Ito (Okayama, JP)
- Effect of TNF- α antagonists on wave reflections: a meta-analysis.** P1109
 – A. Grivos, C. Vlachopoulos, G. Georgiopoulos, D. Terentes-Printzios, P. Pietri, C. Georgakopoulos, K. Stamatelopoulos, D. Tousoulis (Athens, GR)
- Protective Effect of Immunosuppressor FTY720 against CVB3 Induced-Viral Myocarditis.** P1110
 – X.L. Liu, T.L. Liu, Y.F. Xiao (Huhhot and Inner Mongolia, CN)

10:05–10:55 | Moderated poster station - Poster Area

VENTRICULAR ARRHYTHMIAS: IMPROVED TREATMENT AND RISK PREDICTION Moderated Posters

Chairperson(s): J. Kautzner (Prague, CZ); To be announced

- Ventricular arrhythmias do not affect prognosis in patients with continuous-flow left ventricular assist devices.** P1111
 – T. Koenig, J. Heimeshoff, D. Duncker, J. Schmitto, C. Veltmann (Hannover, DE)
- Long-term outcome of LAVA elimination in ablation of post-myocardial infarction ventricular tachycardia.** P1112
 – M. Wolf, F. Sacher, H. Cochet, T. Kitamura, M. Takigawa, A. Frontera, G. Cheniti, K. Vlachos, R. Martin, A. Denis, T. Pambrun, N. Derval, M. Hocini, M. Haissaguerre, P. Jais (Bordeaux-Pessac, FR)
- Long-term prognosis of Brugada syndrome patients with syncope.** P1113
 – J. Hernandez Ojeda, E. Arbelo, S. Vidorreta, G. Sarquella Brugada, O. Campuzano, R. Brugada, L. Mont, J. Brugada (Barcelona and Girona, ES)
- Electrocardiographic algorithms to guide management strategy of outflow tract ventricular arrhythmias.** P1114
 – B. Ludwik, K. Deutsch, M. Mazji, J. Sledz, A. Morka, M. Chrabaszcz, A. Sledz, M. Banasik, M. Bzymek, M. Labus, J. Spikowski, L. Szydowski, S. Stec (Wroclaw, Warsaw, Kielce, Krakow, Katowice and Rzeszow, PL)
- Reduction of fast-VT related syncope by beta-blockers: a dose-dependent effect. Results from a multicenter study.** P1115
 – J. Jimenez-Candil, I. Anguera, J. Fernandez-Portales, O. Duran, J. Hernandez, J. Morinigo, P. Dallaglio, L. Bravo, P.L. Sanchez (Salamanca, L'Hospitalet de Llobregat, Barcelona and Caceres, ES)
- Image-based criteria to identify the presence of epicardial arrhythmic substrate in patients with transmural myocardial infarction.** P1116
 – D. Soto-Iglesias, J. Acosta, M. Cabrera, M. Martinez, M. Linhart, D. Penela, J. Fernandez-Armenta, J.T. Ortiz, L. Mont, O. Camara, A. Berrueto (Barcelona, ES)
- The role of MIBG scintigraphy in anticipating the occurrence of sustained ventricular arrhythmias after CRT in patients with remote monitoring.** P1117
 – M. Coutinho Cruz, A. Abreu, M. Oliveira, A.S. Delgado, H. Santa Clara, V. Santos, G. Portugal, I. Rodrigues, L. Almeida Morais, R. Ilhao Moreira, P. Modas Daniel, T. Mendonca, M. Mota Carmo, R. Cruz Ferreira (Lisbon, PT)

10:05–10:55 | Moderated poster station - Poster Area

ACS: FROM ACUTE MANAGEMENT TO LONG-TERM OUTCOMES Moderated Posters

Chairperson(s): J. Silvain (Paris, FR); G. Georgiou (Nicosia, CY)

- Impact of serum lipoprotein (a) level on coronary plaque progression and cardiovascular events in statin-treated patients with acute coronary syndrome.** P1118
 – K. Matsushita, K. Hibi, N. Komura, Y. Kimura, Y. Matsuzawa, N. Maejima, N. Iwahashi, M. Kosuge, T. Ebina, K. Kimura, K. Tamura (Yokohama, JP)
- The impact of serum sitosterol level on clinical outcomes in acute coronary syndrome patients with dyslipidemia: a subanalysis of HIJ PROPER.** P1119
 – K. Kanbayashi, J. Yamaguchi, S. Fujii, E. Kawada-Watanabe, H. Arashi, H. Sekiguchi, H. Ogawa, N. Hagiwara (Tokyo and Sendai, JP)
- Comparison of outcome of acute coronary syndrome patients with or without chronic obstructive pulmonary disease admitted to tertiary care hospital.** P1120
 – A. Ashraf, S. Ashraf, M. Hafizullah (Peshawar, PK)
- Abdominal obesity associates to incident atherosclerotic cardiovascular disease after myocardial infarction.** P1121
 – H. Mohammadi, J. Ohm, A. Discacciati, J. Sundstrom, K. Hambraeus, T. Jernberg, P. Svensson (Stockholm, Uppsala and Falun, SE)
- 2D Speckle-tracking global longitudinal strain in low-risk, negative high-sensitive troponin unstable angina patients: a resting ischemia test?** P1122
 – P. Alves, N. Espirito-Santo, R. Baptista, V. Marinho, M. Oliveira-Santos, R. Martins, F. Goncalves, M. Pego (Coimbra, PT)
- Impact of central and obstructive sleep apnea on long term clinical outcomes in patients with acute myocardial infarction.** P1123
 – S. Furudono, Y. Mashimo, T. Fukushima, M. Kurobe, S. Muto, H. Suenaga, T. Nunohiro, S. Takeshita, H. Nakashima, K. Maemura (Nagasaki, JP)
- Rapid acute myocardial infarction rule-out using the limit of detection of a point of care troponin assay: early results of the Bedside Evaluation of Sensitive Troponin (BEST) study.** P1124
 – R. Body, M. Almashali, G. McDowell (Manchester, UK)

10:10–10:50 | **Spotlight Stage**

Today on ESC TV

THE EUROPEAN HEART JOURNAL'S YEAR IN CARDIOLOGY: FROM PREVENTION TO INTERVENTION

Special Session

Joint with the European Heart Journal

Chairperson(s): T.F. Luscher (Zurich, CH); P.W.J.C. Serruys (Rotterdam, NL)

- 10:10 **The European Heart Journal's Year in Cardiology: from prevention to intervention - Introduction.** 1125
– T.F. Luscher (Zurich, CH)
- 10:18 **Prevention in 2017 - An update.** 1126
– C.P. Cannon (Boston, US)
- 10:26 **Stable coronary disease: assessment and intervention.** 1127
– W. Wijns (Brussels, BE)
- 10:34 **Management of acute coronary syndromes.** 1128
– F. Crea (Rome, IT)
- 10:42 **The European Heart Journal's Year in Cardiology: from prevention to intervention - Conclusion.** 1129
– P.W.J.C. Serruys (Rotterdam, NL)

10:10–10:50 | **Dali - The Hub**

UNDERSTANDING THE COMPLEXITY OF THE INNOVATION PROCESS

Special Session

Chairperson(s): R. Kornowski (Petah Tikva, IL); G. Krstacic (Zagreb, HR)

- 10:10 **Biomedical innovation: understanding the unmet needs.** 1130
– C. Lotan (Jerusalem, IL)
- 10:23 **Building eco systems in regenerative medicine.** 1131
– T.J. Rabelink (Leiden, NL)
- 10:36 **From prototyping innovative devices into clinical studies.** 1132
– F. Maisano (Zurich, CH)

10:10–10:50 | **Agora 1 - Agora**

CRUNCHING THE NUMBERS: HOW TO CRITICALLY ANALYSE A CLINICAL TRIAL

Special Session

Chairperson(s): C. Funck-Brentano (Paris, FR); B.S. Lewis (Haifa, IL)

- 10:10 **Clinical trial design and statistical methods.** 1133
– G. Savarese (Stockholm, SE)
- 10:30 **Reading between the lines - How to interpret clinical trial data. Examples from recent trials.** 1134
– S. Wassmann (Munich, DE)

10:10–10:50 | **Agora 2 - Agora**

eHEALTH TO IMPROVE CLINICAL PRACTICE

Special Session

Chairperson(s): E.G. Caiani (Milan, IT); C.E. Chronaki (Heraklion, GR)

- 10:10 **eHealth for prevention of cardiovascular disease.** 1135
– E. Peterson (Durham, US)
- 10:30 **eHealth to improve emergency care.** 1136
– J. Rumsfeld (Denver, US)

10:10–10:50 | **Riga - Village 3**

 Ask a Question

IMAGE INTERPRETATION WITH THE MASTERS: ADVANCED CARDIAC PET AND MRI

Special Session

Chairperson(s): W. Jaber (Cleveland, US); J.M. Knuuti (Turku, FI)

- 10:10 **PET-CT to assess the vulnerable plaque.** 1137
– M. Dweck (Edinburgh, UK)
- 10:23 **Imaging sarcoidosis with PET and MRI.** 1138
– P. Chareonthaitawee (Rochester, US)
- 10:36 **Molecular imaging using PET, combined with CT or MRI.** 1139
– F.M. Bengel (Hannover, DE)

10:15–10:45 | **Gaudi - The Hub**

FILLING THE GAPS IN HEART FAILURE TREATMENT

Satellite Symposium - Experts on the Spot

Sponsored by **SERVIER**

Chairperson(s): C. Maack (Homburg, DE); A.R. Lyon (London, UK)

- 10:15 **How to keep patients out of hospital?** 1140
– C. Maack (Homburg, DE)
- 10:30 **Importance and challenge of management of comorbidities.** 1141
– A.R. Lyon (London, UK)

Please refer to the Satellite Symposium scheduled on Saturday 26 August, 15:30–16:30 in Lisbon - Village 9.

10:15–10:45 | Goya - The Hub

IMMEDIATE DABIGATRAN REVERSAL: CHANGING ANTICOAGULATION PRACTICE?

Satellite Symposium - Experts on the Spot

Sponsored by Boehringer Ingelheim

Chairperson(s): H. Darius (Berlin, DE)

- 10:15 **Immediate dabigatran reversal: changing anticoagulation practice?** **1142**
 – H. Darius (Berlin, DE), R. Whitlock (Hamilton, CA), P. Verhamme (Leuven, BE)

Please refer to the Satellite Symposium scheduled on Saturday 26 August, 15:30–16:30 in Astana - Village 2.

10:15–10:45 | Miro - The Hub

LIGHTING THE WAY: A NEW PATH TO MANAGE HYPERKALAEMIA
 Sponsored by AstraZeneca

Satellite Symposium - Experts on the Spot

Chairperson(s): M. Kosiborod (Kansas City, US)

- 10:15 **Lighting the way: a new path to manage hyperkalaemia.** **1143**
 – J. Butler (Atlanta, US)

Please refer to the Satellite Symposium scheduled on Saturday 26 August, 15:30–16:30 in Warsaw - Village 9.

10:15–10:45 | Picasso - The Hub

REDEFINING ANTICOAGULATION IN AF ABLATION: RE-CIRCUIT AND RE-VERSE AD

Satellite Symposium - Experts on the Spot

Sponsored by Boehringer Ingelheim

Chairperson(s): R. Schilling (London, UK)

- 10:15 **Redefining anticoagulation in AF ablation: RE-CIRCUIT and RE-VERSE AD.** **1144**
 – R. Schilling (London, UK), H. Calkins (Baltimore, US)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Skopje - Village 5.

11:00–12:35 | Barcelona - Main Auditorium

HOT LINE: LATE-BREAKING CLINICAL TRIALS 1

Hot Line

Chairperson(s): J.J. Bax (Leiden, NL); B. Casadei (Oxford, UK)

11:00	Routine versus aggressive upstream rhythm control for prevention of early atrial fibrillation in heart failure, the RACE 3 study.	1145
	– M. Rienstra (Groningen, NL)	
11:10	Discussant review: Routine versus aggressive upstream rhythm control for prevention of early atrial fibrillation in heart failure, the RACE 3 study.	1146
	– J. Brugada Terradellas (Barcelona, ES)	
11:15	Panel discussion.	1147
11:18	Catheter ablation versus standard conventional treatment in patients with left ventricular dysfunction and atrial fibrillation: the CASTLE-AF trial.	1148
	– N. Marrouche (Salt Lake City, US)	
11:28	Discussant review: Catheter ablation versus standard conventional treatment in patients with left ventricular dysfunction and atrial fibrillation: the CASTLE-AF trial.	1149
	– C. Blomstrom-Lundqvist (Uppsala, SE)	
11:33	Panel discussion.	1150
11:36	Cardiovascular Outcomes for People using Anticoagulation Strategies (COMPASS) trial: Primary Results.	1154
	– J.W. Eikelboom (Hamilton, CA)	
11:46	Discussant review: Cardiovascular Outcomes for People using Anticoagulation Strategies (COMPASS) trial: Primary Results.	1155
	– E. Braunwald (Boston, US)	
11:51	Panel discussion.	1156
11:54	Cardiovascular Outcomes for People using Anticoagulation Strategies (COMPASS) trial: Results in Patients with Coronary Artery Disease and in patients with Peripheral Artery Disease.	1157
	– S. Anand (Hamilton, CA)	
12:04	Discussant review: Cardiovascular Outcomes for People using Anticoagulation Strategies (COMPASS) trial: Results in Patients with Coronary Artery Disease and in patients with Peripheral Artery Disease.	1158
	– L.C. Wallentin (Uppsala, SE)	
12:09	Panel discussion.	1159
12:12	CANTOS - The Canakinumab Anti-Inflammatory Thrombosis Outcomes Study.	1151
	– P.M. Ridker (Boston, US)	
12:27	Discussant review: CANTOS - The Canakinumab Anti-Inflammatory Thrombosis Outcomes Study.	1152
	– M. Kelm (Düsseldorf, DE)	
12:32	Panel discussion.	1153

11:00–12:30 | Spotlight Stage



CORONARY CHRONIC TOTAL OCCLUSION (CTO)

Live in the box

Live procedure recorded from the University Heart Center Zurich, University Hospital Zurich

Chairperson(s): C. Di Mario (London, UK); G. Sianos (Thessaloniki, GR); G.S. Werner (Darmstadt, DE)

11:00	CTO - Introduction.	1160
	– G. Sianos (Thessaloniki, GR)	
11:05	CTO recanalisation - Indications and angiographic suitability.	1161
	– H.J. Buettner (Freiburg, DE)	
11:20	Retrograde CTO techniques - Step by step.	1162
	– S. Saito (Kamakura City, JP)	
11:35	CTO - Live in the box.	1163
	– A.R. Galassi (Catania, IT)	
12:15	CTO - Discussion.	1164
12:25	CTO - Conclusion.	1165
	– C. Di Mario (London, UK)	

11:00–12:30 | Dali - The Hub

 Vote & Ask a Question

DO WE NEED PCSK9 INHIBITORS IN POST-MI PATIENTS?

Great Debate

Chairperson(s): E.P. Navarese (Falls Church, US); T.R. Pedersen (Oslo, NO)

11:00	Positioning of the topic - The PCSK9 story... so far. – F. Mach (Geneva, CH)	1166
11:15	Do we need PCSK9 inhibitors in post-MI patients? PRO. – M. Sabatine (Boston, US)	1167
11:35	Do we need PCSK9 inhibitors in post-MI patients? CON. – H. Drexel (Feldkirch, AT)	1168
11:55	Do we need PCSK9 inhibitors in post-MI patients? Rebuttal PRO. – M. Sabatine (Boston, US)	1169
12:00	Do we need PCSK9 inhibitors in post-MI patients? Rebuttal CON. – H. Drexel (Feldkirch, AT)	1170
12:05	Do we need PCSK9 inhibitors in post-MI patients? Moderated discussion.	1171
12:20	Do we need PCSK9 inhibitors in post-MI patients? Conclusion and take home message. – T.R. Pedersen (Oslo, NO)	1172

11:00–12:30 | Gaudi - The Hub



PROBLEM SOLVED: CHALLENGING SITUATIONS IN THE CATH LAB

Clinical Cases

Chairperson(s): F. Weidinger (Vienna, AT); S. Muscoli (Rome, IT)

11:00	Acute clopidogrel-induced myelodysplastic syndrome after elective PCI. – E. Ganovska (Brno, CZ)	1173
11:12	The “mimicker” of mitral stenosis - a localised pericardial haematoma following left circumflex artery perforation. – M.R. Amanullah (Singapore, SG)	1174
11:25	Complete regression of severe left main coronary artery stenosis after pulse steroid therapy in a patient with takayasu arteritis. – E. Durmaz (Istanbul, TR)	1175
11:38	Percutaneous closure of a large right coronary artery to coronary sinus fistula. – M. Alawami (Auckland, NZ)	1176
11:51	A Life-saving plug: spontaneous closure of ventricular rupture by a coincident thrombus after STEMI. – V. Dornberger (Greifswald, DE)	1177
12:04	Percutaneous treatment of mitral insufficiency and pseudo-aneurism: a case report. – A. Carbone (Villaricca, IT)	1178
12:17	STEMI due to big ostial left main thrombus extending in to aorta, challenging situation with no clear guidelines. – M.K. Shahin (Zurich, CH)	1179

11:00–12:30 | Goya - The Hub

Scientists of Tomorrow

EVOLVING CONCEPTS IN ANGIOGENESIS

Symposium

Chairperson(s): A. Bayes Genis (Badalona, ES); J. Patel (Oxford, UK)

11:00	The role of endothelial cell metabolism in driving neovascularisation. – C. Lewis (Sheffield, UK)	1180
11:22	ANGPTL4 as a therapeutic target in coronary artery disease. – S. Germain (Paris, FR)	1181
11:45	Tissue factor: a promising candidate for therapeutic angiogenesis after ischaemic damage. – L. Badimon (Barcelona, ES)	1182
12:07	Stem cell angiogenesis to repair the damaged heart: the power of cell conditioning. – S. Dimmeler (Frankfurt, DE)	1183

11:00–12:30 | Miro - The Hub

PRACTICAL ASPECTS OF CARE IN NON-ST-ELEVATION-ACS
Joint with the Cardiological Society of India

Symposium

Chairperson(s): M. Roffi (Geneva, CH); S. Hiremath (Pune, IN)

- | | | |
|-------|---|------|
| 11:00 | Practical aspects of care in Non-ST-Elevation-ACS - Introduction.
– S. Hiremath (Pune, IN) | 1184 |
| 11:15 | NSTE-ACS - Clinical Case 1.
– A.K. Banerjee (Howrah, IN) | 1185 |
| 11:30 | NSTE-ACS - Clinical case 2.
– K.S. Chandra (Hyderabad, IN) | 1186 |
| 11:45 | NSTE-ACS: the ten most important guidelines recommendations from a clinical point of view.
– S.D. Kristensen (Aarhus, DK) | 1187 |
| 12:00 | NSTE-ACS: how are women different, if at all?
– F. Andreotti (Rome, IT) | 1188 |
| 12:15 | Practical aspects of care in Non-ST-Elevation-ACS - Conclusion.
– M. Roffi (Geneva, CH) | 1189 |

11:00–12:30 | Picasso - The Hub

IMPACT OF TRADITIONAL AND NOVEL LIFESTYLE FACTORS ON CARDIOVASCULAR DISEASE

Rapid Fire Abstract

Chairperson(s): M. Dilic (Sarajevo, BA); M. Kavousi (Rotterdam, NL)

- | | | |
|-------|--|------|
| 11:00 | Lifestyle risk factors for non-valvular atrial fibrillation.
– C.A. Buzzea, L. Pagliani, T. Gregorio, M. Santos, R. Providencia, J.I. Weitz, C. Wallenhorst, C. Martinez, A.T. Cohen (Bucharest, RO; Padua, IT; Vila Nova de Gaia and Porto, PT; London, UK; Hamilton, CA; Frankfurt, DE) | 1190 |
| 11:09 | Cardiorespiratory fitness and the long-term risk of cardiovascular mortality: 42 years of follow up.
– J.S.R. Clausen, A. Holtermann, F. Gyntelberg, M.T. Jensen (Copenhagen, DK) | 1191 |
| 11:18 | Salt intake and the risk of heart failure.
– P. Jousilahti, K. Harald, A. Jula, T. Laatikainen, S. Mannisto, M. Peltonen, M. Perola, P. Puska, V. Salomaa, J. Tuomilehto, L. Valsta, E. Vartiainen (Helsinki, FI) | 1192 |
| 11:27 | Maternal environmental tobacco smoke interacted with other factors on cardiovascular defects in a population case-control study.
– X. Liu, Z. Nie, J. Chen, X. Guo, Y. Ou, G. Chen, J. Mai, W. Gong, Y. Wu, X. Gao, Y. Qu, E.R.I.N. Bell, S. Lin, J. Zhuang (Guangzhou and Dongguan, CN; New York, US) | 1193 |
| 11:36 | 7-year change in physical fitness in healthy middle-aged men predicts stroke during 28 years follow-up.
– E. Prestgaard, J. Mariampillai, K. Engeseth, K. Gjesdal, K. Liestol, J. Erikssen, J. Bodegard, S. Kjeldsen, E. Berge, I. Grundvold (Oslo, NO) | 1194 |
| 11:45 | Dietary lipophilic index and dietary lipophilic load and the risk of type 2 diabetes.
– B.E. Wijnveld, Y.T. Van Der Schouw, A.M.W. Spijkerman, I. Sluijs (Utrecht and Bilthoven, NL) | 1195 |
| 11:54 | A score of traditional and novel lifestyles for optimal cardiovascular health: the SUN cohort.
– J. Diaz-Gutierrez, L.S. Diaz De La Llera, A. Gea, M. Ruiz-Canela, M.A. Martinez-Gonzalez (Pamplona and Seville, ES) | 1196 |
| 12:03 | Perceived stress and ideal cardiovascular health: the Paris Prospective Study III.
– L. Poirat, B. Gaye, M.C. Perier, F. Thomas, C. Guibout, L. Offredo, C. Lemogne, B. Pannier, P. Boutouyrie, X. Jouven, J.P. Empana (Paris, FR) | 1197 |
| 12:12 | Fluidity of the dietary fatty acid profile and risk of coronary heart disease and ischemic stroke: results from the EPIC-Netherlands cohort study.
– I. Sluijs, J. Praagman, J.M.A. Boer, W.M.M. Verschuren, Y.T. Van Der Schouw (Utrecht and Bilthoven, NL) | 1198 |
| 12:21 | Coffee consumption and all-cause mortality in a Mediterranean cohort: the SUN project.
– A. Navarro, M.A. Martinez-Gonzalez, A. Gea, P. Bazal-Chacon, C. De La Fuente-Arillaga, E. Toledo (Pamplona, ES) | 1199 |

11:00–12:30 | Agora 1 - Agora

ACUTE CORONARY SYNDROMES: THE FULL PICTURE

Rapid Fire Abstract

Chairperson(s): A. Sambola Ayala (Barcelona, ES); F. Van de Werf (Leuven, BE)

- 11:00 **Bleeding risk scores in acute coronary syndromes: are they only useful in predicting hemorrhaging?** 1200
 – J.G. Goncalves Pereira, H. Antunes, B. Marmelo, L. Abreu, M.L. Goncalves, M.I. Pires, I. Cunha, R. Silverio, L.F. Santos, J. Costa Cabral (Viseu, PT)
- 11:09 **Predictors of early recurrent events after acute coronary syndromes: a large-scale analysis based on National Healthcare System administrative data.** 1201
 – G. Malanchini, G.G. Stefanini, C. Panico, F. Cannata, M. Briani, B. Reimers, G. Condorelli (Milan and Rozzano, IT)
- 11:27 **Discriminatory ability of CHA2DS2-VASc score to predict residual platelet reactivity and outcomes in patients with acute coronary syndrome.** 1202
 – F. Scudiero, C. Zocchi, R. Marcucci, E. De Vito, E. Gabrielli, R. Valenti, A. Migliorini, A.M. Gori, N. Marchionni, D. Antonucci, G. Parodi (Florence, IT)
- 11:36 **Evolution of early mortality from 2003 to 2013 according to age and use of primary PCI in MICU-transported STEMI patients. Data from the eMust registry in 23,562 patients in the greater Paris area.** 1203
 – Y. Lambert, L. Lamhaut, G. Le Bail, A. Loyeau, F. Lapostolle, J.M. Juliard, F. Dupas, B. Simon, A. Allonneau, T. Boche, V. Pires, N. Danchin, S. Bataille (Versailles, Paris, Garches, Bobigny, Pontoise, Corbeil-Essonnes, Créteil and Melun, FR)
- 11:45 **Comparison of inpatient mortality trends after acute myocardial infarction between men and women: a 10 year analysis.** 1204
 – S.H. Hosseini Dehkordi, F. Gholitabar, A. Lemor, S. Lee, S. Ahsan, J. Tamis-Holland (New York, US)
- 11:54 **The yield of invasive coronary angiography in patients with acute coronary syndromes in the era of high sensitivity troponin.** 1205
 – A. Rauf, S.J. Denny, F. Pierres, A. Jackson, N. Papamichail, A. Pavlidis, K. Alfakih (London, UK)
- 12:03 **Percutaneous Coronary Intervention (PCI) has better prognosis than conservative treatment in patient over 80 years suffering from non ST-elevation myocardial Infarction (NSTEMI).** 1206
 – P. Reinius, L. Melbin, A.J. Siddiqui (Stockholm, SE)
- 12:12 **Optimal extent and timing of percutaneous intervention for STEMI in multi-vessel disease: a meta-analysis of randomized controlled trials of complete revascularization vs culprit-vessel only therapy.** 1207
 – P. Whittaker, P.F. Kantor, R. De Palma, D.A. Jones (London, UK)
- 12:21 **Efficacy and safety of ticagrelor in comparison to clopidogrel in elderly patients with ST-segment elevation myocardial infarctions.** 1208
 – J. Schmucker, H. Wienbergen, A. Fach, L. Mata Marin, D. Garstka, J. Stehmeier, E. Fiehn, R. Hambrecht (Bremen, DE)

11:00–12:30 | Agora 2 - Agora

GENETICS AND CARDIAC ARRHYTHMIAS

Rapid Fire Abstract

Chairperson(s): B. Goronja (Banjaluka, BA); P.J. Schwartz (Milan, IT)

- 11:00 **Atrial fibrillation in long QT syndrome as a risk indicator of cardiac events.** 1209
– P.G. Platonov, S. McNitt, B. Polonsky, S. Rosero, A.J. Moss, W. Zareba (Lund, SE; Rochester, US)
- 11:09 **Identification of TNFSF13, SPATC1L, SLC22A25, and SALL4 as novel susceptibility loci for atrial fibrillation in Japanese individuals by an exome-wide association study.** 1210
– H. Horibe, K. Kato, M. Oguri, T. Fujimaki, T. Kondo, J. Sakuma, I. Takeuchi, T. Murohara, Y. Yasukochi, Y. Yamada (Tajimi, Nagoya, Kasugai, Inabe, Tsukuba and Tsu, JP)
- 11:18 **Genetic background of sudden cardiac death caused by idiopathic myocardial fibrosis.** 1211
– L. Holmstrom, K. Pylkas, T. Mantere, K. Porvari, M.L. Kortelainen, L. Pakanen, R. Kerkela, H. Huikuri, J. Junttila (Oulu, FI)
- 11:27 **Gene-based risk stratification for cardiac disorders in LMNA mutation carriers.** 1212
– S. Nishiuchi, T. Makiyama, T. Aiba, K. Nakajima, H. Watanabe, S. Ohno, T. Minamino, Y. Saito, A. Nogami, K. Aonuma, K. Kusano, N. Makita, W. Shimizu, M. Horie, T. Kimura (Kyoto, Osaka, Niigata, Otsu, Nara, Tsukuba, Nagasaki and Tokyo, JP)
- 11:36 **Unexpected risk profile in a large paediatric population with Brugada syndrome.** 1213
– A. Mazzanti, R. Maragna, A. Shauer, S. Mameli, R. Bloise, N. Monteforte, M. Marino, M. Morini, C. Napolitano, S.G. Priori (Pavia, IT)
- 11:45 **Desmoglein 2 gene mutation (DSG2-F531C) caused arrhythmogenic right ventricular cardiomyopathy in human and mice is gene dose-dependent.** 1214
– D. Wang, Y. Guo, J. Wang, X. Chen, X. Zhou, B. Yang (Nanjing and Nanjing, CN)
- 11:54 **Neurodevelopmental disorders in patients with RYR2-associated catecholaminergic polymorphic ventricular tachycardia.** 1215
– K.V.V. Lieve, J.M.A. Verhagen, J.M. Bos, C. Van Der Werf, I.M.E. Frohn-Mulder, T. Aiba, H.J.G. Crijns, A.C. Blank, A.C.P. Wiesfeld, N. Sumitomo, S.R.W. Chen, J. Till, M.J. Ackerman, I.M.B. Van Der Laar, A.A.M. Wilde (Amsterdam, Rotterdam, Maastricht, Utrecht and Groningen, NL; Rochester, US; Osaka and Saitama, JP; Calgary, CA; London, UK)
- 12:03 **Non-invasive multimodality assessment in brugada Syndrome: insights into pathogenic basis and risk stratification.** 1216
– B. Gray, G.K. Gnanappa, R.D. Bagnall, L.M. Yeates, J. Ingles, C. Burns, R. Puranik, S.M. Grieve, C. Semsarian, R.W. Sy (Sydney and Newtown, AU)
- 12:12 **SCN10A mutations related with bradycardia and conduction block in young patients.** 1217
– H. Aoki, S. Ohno, M. Fukuyama, F. Kayatani, M. Yoshinaga, M. Horie (Osaka, Shiga and Kagoshima, JP)
- 12:21 **Double mutations in RYR2 cause severe phenotype of catecholaminergic polymorphic ventricular tachycardia.** 1218
– K. Takayama, S. Ohno, D. Fukumoto, Y. Wada, M. Ichikawa, M. Fukuyama, H. Itoh, M. Horie (Otsu, JP)

11:00–12:30 | Dublin - Village 1

LIPIDS IN ATHEROSCLEROSIS – EVOLVING CONCEPTS

Symposium

Chairperson(s): P. Libby (Boston, US); J.W. Jukema (Leiden, NL)

- 11:00 **HDL/LDL and vascular remodelling.** 1219
– U. Landmesser (Berlin, DE)
- 11:22 **HDL/LDL and cardiac remodelling.** 1220
– G. Vilahur Garcia (Barcelona, ES)
- 11:45 **PCSK9, LDL regulation and inflammation.** 1221
– D. Tousoulis (Athens, GR)
- 12:07 **Lp(a) and cardiovascular disease.** 1222
– S. Tsimikas (La Jolla, US)

11:00–12:30 | Fira - Village 1

EVALUATING THE PRESENT STATUS OF CELL THERAPY

Symposium

Chairperson(s): F.F.A. Fernandez-Aviles (Madrid, ES); P. Menasche (Paris, FR)

- 11:00 **Revisiting CHART-1: why and why not.** 1223
– J. Bartunek (Aalst, BE)
- 11:18 **Revisiting bone marrow cell therapy in STEMI - The BOOST experience.** 1224
– K.C. Wollert (Hannover, DE)
- 11:36 **Revisiting Poseidon - DCM.** 1225
– J. Hare (Baltimore, US)
- 11:54 **Revisiting TECAM trial.** 1226
– R. Sanz Ruiz (Madrid, ES)



11:00–12:30 | Astana - Village 2

DILEMMAS IN HYPERTENSION AND COMORBIDITIES

Meet the Experts case discussions

Chairperson(s): J. Dalal (Mumbai, IN); R.E. Schmieder (Erlangen, DE)

- 11:00 **Dilemmas in hypertension and comorbidities - Introduction to the session.** 1227
– R.E. Schmieder (Erlangen, DE)
- 11:05 **Dilated aortic root and hypertension.** 1228
– A. Evangelista Masip (Barcelona, ES)
- 11:15 **Dilated aortic root and hypertension - Panel discussion & questions from the audience.** 1229
– M. Böhm (Homburg, DE), J. Brguljan (Ljubljana, SI), F.H. Messerli (New York, US), B. Pieske (Berlin, DE)
- 11:30 **Renal artery stenosis and uncontrolled hypertension.** 1230
– T.P. Murphy (Providence, US)
- 11:40 **Renal artery stenosis and uncontrolled hypertension - Panel discussion & questions from the audience.** 1231
– M. Böhm (Homburg, DE), J. Brguljan (Ljubljana, SI), F.H. Messerli (New York, US), B. Pieske (Berlin, DE)
- 11:55 **Erectile dysfunction and peripheral vascular disease in the setting of hypertension.** 1232
– C. Espinola-Klein (Mainz, DE)
- 12:05 **Erectile dysfunction and peripheral vascular disease in the setting of hypertension - Panel discussion & questions from the audience.** 1233
– M. Böhm (Homburg, DE), J. Brguljan (Ljubljana, SI), F.H. Messerli (New York, US), B. Pieske (Berlin, DE)
- 12:20 **Dilemmas in hypertension and comorbidities - Take home message on the cases presented.** 1234
– J. Dalal (Mumbai, IN)

11:00–12:30 | Pristina - Village 2

HYPERTENSION DAMAGE – UNDER THE RADAR

Advances in Science

Chairperson(s): E. Gerds (Bergen, NO); T. Nair (Trivandrum, IN)

- 11:00 **State of the Art: hypertensive target organ damage evaluation.** 1235
– E. Agabiti-Rosei (Brescia, IT)
- 11:18 **Hypertension and white matter microstructures in healthy participants in UK Biobank.** 1236
– H. Suzuki, H. Gao, W. Bai, E. Evangelou, B. Glocker, D.P. O'Regan, P. Elliot, P.M. Matthews (London, UK)
- 11:36 **Left atrial dilatation: a target organ damage in arterial hypertension. The Campania Salute Network.** 1237
– M.A. Losi, C. Mancusi, R. Izzo, G. Canciello, A. D' Amato, N. De Luca, B. Trimarco, G. De Simone (Naples, IT)
- 11:54 **Impaired baroreflex sensitivity, carotid stiffness and exaggerated exercise blood pressure: a community-based analysis from the paris prospective study 3.** 1238
– J.P.E. Empana, J.S. Charman, S.L. Laurent, M.C.P. Perier, F.T. Thomas, C.G. Guibout, B.P. Pannier, P.B. Boutouyrie, X.J. Jouven (Paris, FR; Hobart, AU)
- 12:12 **The brain in hypertension.** 1239
– A. Coca (Barcelona, ES)

11:00–12:30 | Beirut - Village 3

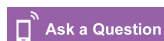
IMAGING TO IDENTIFY PATIENTS AT RISK OF ARRHYTHMIA

Symposium

Chairperson(s): P. Knaapen (Amsterdam, NL); D.B. Mark (Durham, US)

- 11:00 **CMR of arrhythmogenic cardiomyopathies.** 1240
– To be announced
- 11:22 **Imaging to risk stratify for sudden cardiac death in heart failure.** 1241
– C. Kramer (Charlottesville, US)
- 11:45 **Imaging of cardiac innervation.** 1242
– J. Narula (New York, US)
- 12:07 **Imaging to stratify for the risk of sudden cardiac death in mitral valve prolapse and other patients with valvular disease.** 1243
– M. Desai (Cleveland, US)

11:00–12:30 | Riga - Village 3



STRESS ECHOCARDIOGRAPHY

Advances in Science

Chairperson(s): K. Keramida (Athens, GR); A.N. Neskovic (Belgrade, RS)

- 11:00 **State of the Art: stress echocardiography rediscovered.** 1244
– T.H. Marwick (Melbourne, AU)
- 11:18 **Long term prognostic value of dipyridamole stress myocardial contrast echocardiography in comparison with single photon emission tomography in patients with known or suspected coronary artery disease.** 1245
– N. Karogiannis, J. Pabla, S. Gurunathan, A. Vamvakidou, G. Young, R. Senior (Harrow and London, UK)
- 11:36 **The relation between left atrial functions and right ventricular to pulmonary circulation uncoupling during exercise: insights by combining cardiopulmonary exercise testing with stress echo.** 1246
– T. Sugimoto, F. Bandera, G. Generati, E. Alfonzetti, V. Tufaro, M. Guazzi (Milan, IT)
- 11:54 **The assessment of contractile reserve and diastolic reserve during non-invasive preload stress echocardiography contributes to the risk stratification for patients with heart failure.** 1247
– K.M. Matsumoto, H.T. Tanaka, H.Y. Yamada, J.M. Mukai, M.S. Suto, H.T. Takata, F.S. Soga, Y.H. Hatani, H.M. Matsuzoe, K.H. Hatazawa, H.S. Shimoura, J.O. Ooka, H.S. Sano, K.I. Hirata (Kobe and Tokushima, JP)
- 12:12 **The future of stress echocardiography.** 1248
– R. Senior (London, UK)

11:00–12:30 | Chisinau - Village 4



RISK FACTOR PROFILING IN RESOURCE-POOR SETTINGS

Symposium

Joint with the World Heart Federation

Chairperson(s): I.M. Graham (Wicklow, IE); A. Mbakwem (Lagos, NG)

- 11:00 **Pattern of cardiovascular risk and disease in Mozambique: Insights from the MOZART Disease Surveillance Study.** 1249
– A.O. Mocumbi (Maputo, MZ)
- 11:22 **A cardiovascular risk score for Africa.** 1250
– A.I. Dzudie Tamdja (Douala, CM)
- 11:45 **How to achieve cardiovascular risk reduction in low-middle income countries.** 1251
– T. Lira (Santiago, CL)
- 12:07 **Disparities in Europe - Lessons from EUROASPIRE.** 1252
– D.A. Wood (London, UK)

11:00–12:30 | Vilnius - Village 4

NURSING AND ALLIED HEALTH PROFESSIONS INVESTIGATOR AWARD

Nursing Investigator Award Abstracts

Chairperson(s): K. Siebens (Waarloos, BE); E. Lambrinou (Limassol, CY)

Judge(s): I. Uchmanowicz (Wroclaw, PL); M. Macintosh (Sheffield, UK); T. Jaarsma (Norrköping, SE)

- The Caregiver Preparedness Scale is valid and reliable to measure preparedness in caregivers of heart failure patients.** 1253
– M. Paturzo, A. Petruzzo, F. D'Agostino, C. Barbaranelli, R. Alvaro, E. Vellone (Rome, IT)
- GARDIAN of my heart: utility of traffic-light based tool to guide the intensity of nurse-led, multidisciplinary, heart failure management.** 1254
– C. Mainland, S. Booley, A. David, S. Stewart (Victoria, AU)
- Matching delivery of heart failure management to overcome individual barriers to optimal health care: A case of so CLOSE and yet so far.** 1255
– A.K. Keates, T.M. Norekval, S. Booley, A. David, C. Mainland, L. Chen, J. Harris, S. Stewart (Victoria, AU; Bergen, NO)
- Family involvement in decisions concerning implantable cardioverter defibrillators: results from an international survey.** 1256
– L.M. Hill, S. McIlfratrick, B. Taylor, P.F. Slater, T. Jaarsma, A. Stromberg, D. Fitzsimons (Belfast and Jordanstown, UK; Linköping, SE)

Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub

11:00–12:30 | Skopje - Village 5

PREVENTING AND DELAYING ATRIAL FIBRILLATION




Symposium

Chairperson(s): G.Y.H. Lip (Birmingham, UK); B. Gorenek (Eskisehir, TR)

- 11:00 **Impact of blood pressure control on avoiding or delaying atrial fibrillation.** 1257
– H.J.G.M. Crijns (Maastricht, NL)
- 11:22 **The influence of obesity and sleep apnea on atrial fibrillation.** 1258
– F. Marin (Murcia, ES)
- 11:45 **Exercise and atrial fibrillation: can there be too much of a good thing?** 1259
– L. Fauchier (Tours, FR)
- 12:07 **Patients with atrial fibrillation, education, adherence and persistence.** 1260
– J.M.L. Hendriks (Sittard, NL)

11:00–12:30 | Valetta - Village 5

VENTRICULAR ARRHYTHMIAS AND SUDDEN DEATH

 Guidelines in Daily Practice

A session with the Romanian Society of Cardiology

Chairperson(s): M. Grecu (Iasi, RO); S.G. Priori (Pavia, IT)

- 11:00 **Top ten messages from the ventricular arrhythmias and sudden death guidelines.** 1261
– G.-A. Dan (Bucharest, RO)
- 11:10 **Clinical case.** 1262
– S.N. Bogdan (Bucharest, RO)
- 11:20 **Interpretation of guideline recommendations.** 1263
– D.C. Cozma (Timisoara, RO)
- 11:35 **New evidence that has emerged since the guidelines were published.** 1264
– R.-G. Vatasescu (Bucharest, RO)
- 11:50 **Guideline implementation: challenges and opportunities.** 1265
– M. Grecu (Iasi, RO)
- 12:10 **Panel discussion: ventricular arrhythmias and sudden death - Problems and opportunities for clinical practice.** 1266
– D.C. Cozma (Timisoara, RO), M. Grecu (Iasi, RO), R.-G. Vatasescu (Bucharest, RO), S.G. Priori (Pavia, IT)

11:00–12:30 | Bishkek - Village 6

DIAGNOSIS AND MANAGEMENT OF STROKE IN SPECIFIC PATIENT SUBSETS

Symposium


Joint with the European Stroke Conference

Chairperson(s): M. Hennerici (Mannheim, DE); C. Palombo (Pisa, IT)

- 11:00 **Standardised neurologic end-points in clinical trials: Neuro ARC.** 1267
– A.J. Lansky (New Haven, US)
- 11:22 **Cognitive impairment in patients with atrial fibrillation.** 1268
– M. Hennerici (Mannheim, DE)
- 11:45 **Behavior and mood changes after cardio-embolic stroke.** 1269
– J. Bogousslavsky (Montreux, CH)
- 12:07 **Management of stroke occurring as complication of cardiovascular intervention.** 1270
– P. Lanzer (Bitterfeld, DE)

11:00–12:30 | Luxembourg - Village 6

THE DISSECTED AORTA: CONFRONTING GUIDELINES WITH PRACTICE



 Guidelines in Daily Practice

Chairperson(s): E. Roselli (Cleveland, US); M. Grabenwoeger (Vienna, AT)

- 11:00 **Complex type A dissection with intestinal malperfusion.** 1271
– M. Czerny (Freiburg, DE)
- 11:15 **Complex type A dissection with intestinal malperfusion - What do the guidelines say?** 1272
– M. Czerny (Freiburg, DE)
- 11:30 **Complex type A dissection with intestinal malperfusion. How to implement Guidelines – Panel discussion.** 1273
– G. Jondeau (Paris, FR), F. Sellke (Providence, US)
- 11:40 **Complex type A dissection with intestinal malperfusion - Conclusion and take home message.** 1274
– M. Grabenwoeger (Vienna, AT), E. Roselli (Cleveland, US)
- 11:45 **Chronic type B dissection in Marfan's disease.** 1275
– I. Petrov (Sofia, BG)
- 12:00 **Chronic type B dissection in Marfan's disease - What do the guidelines say?** 1276
– A. Haverich (Hannover, DE)
- 12:15 **Chronic type B dissection in Marfan's disease. How to implement Guidelines – Panel discussion.** 1277
– E. Bossone (Lauro, IT), H. Rousseau (Toulouse, FR)
- 12:25 **Chronic type B dissection in Marfan's disease - Conclusion and take home message.** 1278
– E. Roselli (Cleveland, US), M. Grabenwoeger (Vienna, AT)



11:00–12:30 | Podgorica - Village 6

UNMET NEEDS AND FUTURE DIRECTIONS AROUND TAVI

Advances in Science

Chairperson(s): G. Tarantini (Padua, IT); G. Georgiou (Nicosia, CY)

- 11:00 **State of the Art: current limitations of TAVI.** 1279
– G. Mikhail (London, UK)
- 11:18 **Long-term impact of prosthetic valve regurgitation after transcatheter aortic valve implantation: a 5-year follow-up analysis from the German TAVI registry.** 1280
– M. Abdel-Wahab, N. Werner, A. Linke, H. Sievert, P. Kahlert, R. Hambrecht, G. Nickenig, K.E. Hauptmann, S. Sack, S. Schneider, U. Gerckens, G. Richardt, R. Zahn (Bad Segeberg, Bonn, Leipzig, Frankfurt, Essen, Bremen, Trier, Munich and Ludwigshafen, DE)
- 11:36 **Delayed pacemaker requirement after transcatheter aortic valve implantation with Sapien 3 - How long should we monitor?** 1281
– F. De Torres Alba, G. Kaleschke, J. Vormbrock, M. Feurle, W. Stepper, R. Radke, S. Orwat, H. Reineke, D. Fischer, H. Deschka, G.-P. Diller, H. Baumgartner (Münster, DE)
- 11:54 **Impact of antithrombotic strategies on clinical outcomes after self-expandable TAVI.** 1282
– G.G. Stefanini, G. Bruschi, D. Cao, A.S. Petronio, C. Giannini, C. Fiorina, M. Adamo, P. Colombo, A. Latib, M. Agnifili, A. Poli, C. Tamburino, F. Fabbicocchi, P. Giudice, B. Reimers (Milan, Pisa, Brescia, San Donato Milanese, Legnano, Catania and Salerno, IT)
- 12:12 **Future directions in TAVI.** 1283
– S.R. Redwood (London, UK)

11:00–12:30 | Oslo - Village 7



UPDATE ON TRICUSPID VALVE MANAGEMENT

Advances in Science

Chairperson(s): M. Garbi (London, UK); M. Sousa Uva (Lisbon, PT)

- 11:00 **State of the Art: tricuspid valve - Still the forgotten valve?** 1284
– M.L. Enriquez-Sarano (Rochester, US)
- 11:18 **Progression of tricuspid regurgitation over time and outcome: new insights in the natural history.** 1285
– E.A. Prihadi, P. Van Der Bijl, E. Gursoy, R. Abou, E.M. Vollema, R.T. Hahn, G.W. Stone, M.B. Leon, N. Ajmone Marsan, V. Delgado, J.J. Bax (Leiden, NL; New York, US)
- 11:36 **Isolated tricuspid valve surgery - Early and midterm outcome from French nationwide database and local registry.** 1286
– J. Dreyfus, N. Ghalem, E. Garbarz, C. Cimadevilla, D. Arangalage, C. Verdonk, V. Nguyen, A. Vahanian, G. Caranhac, D. Messika-Zeitoun (Paris and Saint-Denis, FR)
- 11:54 **Early results of a percutaneous tricuspid valve reconstruction system multi center first-in-man feasibility trial.** 1287
– R.S. Von Bardeleben, G. Nickenig, A. Vahanian (Mainz and Bonn, DE; Paris, FR)
- 12:12 **Long-term outcome after tricuspid repair.** 1288
– R.J.M. Klautz (Leiden, NL)

11:00–12:30 | Rabat - Village 7

RHEUMATIC HEART DISEASE 2017

Symposium

Joint with the South African Heart Association

Chairperson(s): K. Sliwa-Hahnle (Cape Town, ZA); M.H. Yacoub (Harefield, UK)

- 11:00 **Rheumatic heart disease in a global context.** 1289
– Y. Chen (Beijing, CN)
- 11:18 **REMEDY: a contemporary cohort study of rheumatic heart disease.** 1290
– L.J. Zuhlke (Cape Town, ZA)
- 11:36 **Prevention in at-risk patients.** 1291
– M.T. Tavares Aguiar (Lisbon, PT)
- 11:54 **Surgery for rheumatic heart disease: when and how?** 1292
– P. Zilla (Observatory, ZA)
- 12:12 **Percutaneous treatment of rheumatic heart disease.** 1293
– M.H. El Sayed (Cairo, EG)

11:00–12:30 | Bucharest - Village 8



MANAGING COMPLICATIONS IN ACUTE CARDIAC CARE

Expert Advice

Chairperson(s): K. Czerwinska (Warsaw, PL); M. Lettino (Milan, IT)

- 11:00 **Acute renal failure in the cardiac patient.** 1294
– S. Gevaert (Ghent, BE)
- 11:22 **Stroke during cardiac interventions - How to optimally proceed?** 1295
– A.H.P. Linke (Leipzig, DE)
- 11:45 **Disseminated intravascular coagulation following cardiac arrest.** 1296
– J.A.C. Morais (Leiria, PT)
- 12:07 **Panel discussion: managing complications in acute cardiac care.** 1297

11:00–12:30 | Tripoli - Village 8

QUANTIFICATION OF MYOCARDIAL ISCHAEMIA IN 2017

Symposium

Chairperson(s): B. De Bruyne (Aalst, BE); J.K. Min (New York, US)

11:00	Quantification of ischaemia: is it clinically relevant?	1298
	– K.A. Williams (Chicago, US)	
11:22	Non-invasive ischaemia detection.	1299
	– S. Plein (Leeds, UK)	
11:45	Invasive FFR: the ultimate decision maker?	1300
	– G.B.J. Mancini (Vancouver, CA)	
12:07	FFR-CT: the future? A critical appraisal.	1301
	– T. Villines (Rockville, US)	

11:00–12:30 | Lisbon - Village 9

 Ask a Question

50 YEARS OF HEART TRANSPLANTATION: CURRENT CHALLENGES AND CONSIDERATIONS

Symposium

Chairperson(s): L.H. Lund (Stockholm, SE); M. Jessup (Boston, US)

11:00	Patient selection criteria for heart transplantation in the era of VADs.	1302
	– F. Gustafsson (Copenhagen, DK)	
11:22	Accepting hearts from donators after circulatory death.	1303
	– S.L. Tsui (Cambridge, UK)	
11:45	Challenges in immunosuppression after heart transplantation.	1304
	– L. Potena (Bologna, IT)	
12:07	From cardiac rejection monitoring to immunologic follow-up after heart transplantation.	1305
	– M.G. Crespo-Leiro (La Coruña, ES)	

11:00–12:30 | Warsaw - Village 9

Today on ESC TV

CARDIOMYOPATHIES: PRAGMATIC APPROACHES

Symposium

Chairperson(s): A.A. Hagege (Paris, FR); T.A. McDonagh (London, UK)

11:00	Myocarditis: when to biopsy, when to treat?	1306
	– M. Noutsias (Jena, DE)	
11:22	When to do genetic testing and family screening in patients with heart failure and cardiomyopathy.	1307
	– A.A.M. Wilde (Amsterdam, NL)	
11:45	Heart failure: when should rare cardiomyopathies be considered?	1308
	– C. Rapezzi (Bologna, IT)	
12:07	Acute cardiomyopathies: Takotsubo and peripartum.	1309
	– J. Gorcsan (Pittsburgh, US)	

08:30–18:00 | Posters - Poster Area

LATE-BREAKING SCIENCE POSTERS

Poster Session

Late-Breaking Science Posters are on display from 08:30 to 18:00.

From 15:35 to 16:25 Trialists Presenters will summarise their research and address questions from the Chairpersons and Audience.

Chairperson(s): To be announced

- | | |
|---|--------------|
| Effect of QRS duration Normalized for Left Ventricular Size on Cardiac Resynchronization Therapy in Heart Failure Patients with a Narrow (<130 ms) QRS complex: A Subgroup Analysis of the EchoCRT Trial. | P1310 |
| – N. Varma (Cleveland, US) | |
| REDEFINE trial: a double-blind, randomized trial with losartan to study RV dysfunction after repair of tetralogy of Fallot. | P1311 |
| – J.P. Bokma (Amsterdam, NL) | |
| Gemcabene Effect in a Phase 2b Study in Hypercholesterolemic Subjects Not Adequately Controlled on High-Intensity or Moderate-Intensity Stable Statin Therapy (ROYAL-1). | P1312 |
| – E. Lepor (Beverly Hills, US) | |
| A Randomized Controlled Trial Evaluating the Efficacy of Long-term Use of Beta-blocker in Patients with ST-segment Elevation Myocardial Infarction treated with Primary Percutaneous Coronary Intervention. | P1313 |
| – H. Watanabe (Kyoto, JP) | |
| Efficacy and Safety of Evolocumab Compared With Continued Lipoprotein Apheresis: Results of a Randomised, Controlled, Open-Label Study. | P1314 |
| – J. Baum (Boca Raton, US) | |
| Intensive Longterm Prevention Program vs. Usual Care After Acute Myocardial Infarctions - The IPP study. | P1315 |
| – H. Wienbergen (Bremen, DE) | |
| Innovative mobile Health (mHealth) technology integrating clinical decision support and patient involvement to improve clinical management of patients with atrial fibrillation. | P1316 |
| – Y.T. Guo (Beijing, CN) | |

08:30–12:30 | Best poster screen - Poster Area

BEST POSTERS 2

Best Posters

Discussant intervention 10:05–10:55

Best Posters are on display from 08:30 to 12:30 on the Best Posters plasma screen of the related topic.

During the viewing time (10:05–10:55), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN INVASIVE CORONARY IMAGING AND FUNCTIONAL CORONARY IMAGING

- | | |
|---|--------------|
| Discussant: Best Posters in invasive coronary imaging and functional coronary imaging. | P1317 |
| – D. Dudek (Krakow, PL), M. Radu (Copenhagen, DK) | |
| Optical coherence tomography to detect acute coronary syndrome in survivors of out-of-hospital cardiac arrest without ST-segment elevation on the ECG. | P1318 |
| – P. Degrell, F. Picard, J. Adjedj, A. Jegou, P. Allouch, F. Dumas, A. Cariou, O. Varenne (Paris, FR) | |
| The effect of chronic total occlusion percutaneous coronary intervention on collateral donor artery fractional flow reserve. | P1319 |
| – S.R. Mohdnazri, G.V. Karamasis, F. Al-Janabi, J. Dzungu, S. Gedela, J. Hampton-Till, K.H. Tang, P.A. Kelly, J.E. Davies, J.R. Davies, T.R. Keeble (Basildon and London, UK) | |
| Optical coherence tomography versus virtual histology intravascular ultrasound for the assessment of thin-cap fibroatheroma. | P1320 |
| – K. Yamaji, R. Maldonado, A. Karagiannis, M.D. Radu, H. Kelbaek, M. Roffi, G. Pedrazzini, L. Holmvang, M. Taniwaki, P. Serruys, H.M. Garcia-Garcia, S. Windecker, L. Raber (Bern, Geneva and Lugano, CH; Copenhagen, DK; London, UK; Washington, US) | |
| Functional evaluation of coronary lesions in patients with severe aortic stenosis undergoing TAVI using a hybrid iFR-FFR approach. | P1321 |
| – R. Scarsini, G. Pesarini, M. Lunardi, C. Zivelonghi, V. Ferrero, A. Rossi, A. Piccoli, C. Vassanelli, F. Ribichini (Verona, IT) | |

BEST POSTERS IN LEFT ATRIAL STRAIN

Discussant: Best Posters in left atrial strain.	P1322
– B. Bijnens (Barcelona, ES), N. Marrouche (Salt Lake City, US)	
Use of atrial strain as a biomarker of atrial fibrillation in cryptogenic stroke: a survival analysis of 538 patients.	P1323
– F. Pathan, E. Sivaraj, S. Pathan, K. Negishi, N. D'Elia, R. Rafiudeen, T.H. Marwick (Hobart, Sydney and Melbourne, AU)	
Fully automated measurements of left atrial volume are highly feasible and accurate compared to expert manual measurements: a comparative multi-center study using a novel automated analysis algorithm.	P1324
– S. Mihaila, U. Cucchini, A. Marzaro, D. Muraru, K. Andras, E. Altiok, D. Vinereanu, A. Sadeghpour, A. Alizadehasl, L.P. Badano, M. Becker (Bucharest, RO; Padua, IT; Aachen, DE; Tehran, IR)	
Global left atrial strain as a predictor of silent atrial fibrillation following dual chamber cardiac implantable electronic device implantation.	P1325
– H.-M. Choi, Y.-E. Yoon, I.-Y. Oh, Y.J. Cho, G.-Y. Cho (Seongnam, KR)	
Visual assessment of restricted left atrial motion: significance in differential diagnosis and prognosis in patients with cardiac amyloidosis and hypertrophic cardiomyopathy.	P1326
– H. Higashi, K. Inoue, C. Iio, T. Kono, T. Uetani, J. Aono, T. Nagai, K. Nishimura, J. Suzuki, T. Okura, J. Higaki, S. Ikeda (Toon, JP)	

BEST POSTERS IN HEART FAILURE AND PATHOPHYSIOLOGY

Discussant: Best Posters in heart failure and pathophysiology.	P1327
– R.H. Strasser (Dresden, DE), To be announced	
High-Resolution Respirometry in Human Endomyocardial Biopsies to Assess Myocardial Mitochondrial Function.	P1328
– D. Scheiber, T. Jelenik, P. Horn, H.-P. Schultheiss, D. Lassner, U. Boeken, D. Saeed, M. Kelm, M. Roden, J. Szendroedi, R. Westenfeld (Düsseldorf and Berlin, DE)	
Differential endomyocardial expression of SGLT1 in idiopathic dilated cardiomyopathy patients with and without diabetes mellitus.	P1329
– W. Heggemont, L. Delrue, K. Dierickx, J. Bartunek, M. Vanderheyden (Aalst, BE)	
Association between aortic stiffness and myocardial native t1 is stronger in the presence of active myocardial inflammation.	P1330
– L. Winau, R. Hinojar, T. D'Angelo, S. Sangle, D. D'Cruz, A. Braner, K. Schnoes, A. Zeiher, H. Burkhardt, E. Nagel, V.O. Puntmann (Frankfurt, DE; Madrid, ES; London, UK)	

BEST POSTERS IN EXERCISE TESTING AND TRAINING

Discussant: Best Posters in exercise testing and training.	P1331
– E. Van Craenenbroeck (Edegem, BE), M. Freitas (Coimbra, PT)	
Exercise age, as derived from exercise testing, improves prediction of overall mortality compared to chronological age.	P1332
– S. Harb, P.C. Cremer, V. Menon, Y. Wu, C. Roupheal, T. Guy, L. Cho, W.A. Jaber (Cleveland, US)	
Changes in physical activity and risk for cardiac death in stable coronary artery disease.	P1333
– A.M. Kiviniemi, M. Lahtinen, M.J. Junttila, M. Kaariainen, H.V. Huikuri, M.P. Tulppo (Oulu, FI)	
Prognostic impact of heart rate recovery in chronic heart disease.	P1334
– N. Sydo, T. Sydo, K. Gonzalez Carta, J.G. Murphy, B. Merkely, F. Lopez-Jimenez, T.G. Allison (Budapest and Veszprem, HU; Rochester, US)	
Fitness, body mass index and the risk of sudden cardiac death in middle-aged men: the Kuopio Ischemic Heart Disease Study.	P1335
– S.Y. Jae, S. Kurl, F. Zaccardi, P. Willeit, S. Kunutsor, H. Khan, B.A. Franklin, J.A. Laukkanen (Seoul, KR; Kuopio, FI; Leicester and Bristol, UK; Innsbruck, AT; Atlanta and Royal Oak, US)	

BEST POSTERS IN GENETICS AND GENE THERAPY

Discussant: Best Posters in genetics and gene therapy.	P1336
– M. Tomaszewski (Manchester, UK), To be announced	
Identification of 12q24.1, ACAD10, and BRAP as novel genetic determinants of blood pressure in Japanese individuals by exome-wide association studies.	P1337
– H. Horibe, K. Kato, M. Oguri, T. Fujimaki, T. Kondo, J. Sakuma, I. Takeuchi, T. Murohara, Y. Yasukochi, Y. Yamada (Tajimi, Nagoya, Kasugai, Inabe, Tsukuba and Tsu, JP)	
Mutations in RBM20 and titin cause left ventricular non-compaction cardiomyopathy.	P1338
– F. Sedaghat-Hamedani, J. Haas, F. Zhu, E. Kayvanpour, C. Geier, A. Lai, K. Frese, A. Amr, M. Liss, P.H. Ehlermann, C. Dieterich, M. Gotthardt, H.A. Katus, B. Meder (Heidelberg and Berlin, DE; Wuhan, CN)	
Trans-ethnic fine mapping of previously identified QT interval loci in han Chinese discover ethnic-specific signals associated with inflammation pathway.	P1339
– J.M. Juang, Y.H. Chen, L.H. Chien, I.C. Wu, C.C. Hsu, L.N. Chen, F.C. Tang, C.C. Wang, C.C. Juan, H.C. Chiu, H.M. Lo, J.J. Hwang, I.S. Chang, J.L. Lin, C. Hsiung (Taipei, Zhunan, Changhua, Hualien and Kaohsiung, TW)	
Hepatocyte-restricted SR-BI gene transfer corrects cardiac dysfunction in SR-BI deficient mice and improves pressure overload-induced cardiomyopathy.	P1340
– I. Muthuramu, R. Amin, J.P. Abou Msallem, B. De Geest (Leuven, BE)	

BEST POSTERS IN PULMONARY HYPERTENSION

Discussant: Best Posters in pulmonary hypertension.	P1341
– J. Pepke-Zaba (Cambridge, UK), D. Bondermann (Vienna, AT)	
Protective effect of masitinib on cardiovascular function of rats with pulmonary hypertension: gender dependence.	P1342
– I. Kocic, K. Sztormowska, Z. Jankowski, C. Mansfield, A. Moussy, O. Hermine, O. Hermine, O. Hermine, O. Hermine, O. Hermine (Gdansk, PL; Paris, FR)	
Risk factors for chronic thromboembolic pulmonary hypertension - importance of thyroid disease and treatment.	P1343
– V. Krieg, L. Hobohm, C. Liebetrau, S. Guth, S. Koelmel, K. Pohl, C. Troidl, L. Essmann, H. Rossmann, S. Konstantinides, E. Mayer, C.B. Wiedenroth, M. Lankeit (Mainz, Bad Nauheim and Berlin, DE)	
Balloon pulmonary angioplasty ameliorates long-term survival of patients with inoperable chronic thromboembolic pulmonary hypertension.	P1344
– S. Tatebe, K. Sugimura, T. Aoki, S. Yamamoto, N. Yaoita, H. Sato, R. Konno, K. Satoh, H. Shimokawa (Sendai, JP)	

BEST POSTERS IN HYPERTENSION – UNDERSTANDING AND MANAGING

Discussant: Best Posters in hypertension - Understanding and managing.	P1345
– A.F. Dominiczak (Glasgow, UK), F. Mahfoud (Homburg, DE)	
High sodium intake and high ratio of sodium/potassium intake has a stronger association with nighttime blood pressure in the elderly.	P1346
– M.Y. Rhee, S.J. Shin, D.Y. Nah, S.W. Kim, N. Gu, K.C. Sung, K.S. Hong (Goyang, Gyeongju, Seoul and Chuncheon, KR)	
Long-term effect of statin therapy on annual change in renal function in hypertensive patients.	P1347
– T. Horio, Y. Iwashima, F. Yoshihara, S. Nakamura, H. Tanaka, M. Okutsu, M. Akiyama, I. Komatsubara, N. Okimoto, Y. Kawano (Okayama, Osaka and Omuta, JP)	
The role of angiotensin receptor blockers in the treatment of patients with hypertension and chronic kidney disease: a systematic review of clinical trials.	P1348
– M. Burnier, S. Lin, L. Ruilope, P. Brunel (Lausanne and Basel, CH; Shanghai, CN; Madrid, ES)	
Central blood pressure predicts the development of hypertension and contributes to an increase in brachial blood pressure in the general population.	P1349
– H. Takase, M. Machii, D. Nonaka, T. Sugiura, S. Yamashita, N. Ohte, Y. Dohi (Hamamatsu, Nagoya and Seto, JP)	

BEST POSTERS IN ANTIBRADYCARDIA PACING

Discussant: Best Posters in antibradycardia pacing. P1350
 – C.W. Israel (Bielefeld, DE), J. Poole (Seattle, US)

Long-term follow-up of His pacing in a single center experience. P1351
 – F. Zanon, L. Marcantoni, G. Pastore, E. Baracca, G. Giau, C. Picariello, S. Aggio, M. Carraro, L. Roncon, D. Lanza (Rovigo, IT)

Prediction of TAVR-related severe AV conduction disorders with a bedside and fast scoring system and Real time 3D TEE. P1352

– P. Marcos-Alberca Moreno, L. Perez-Isla, R. Manganaro, L. Nombela, F. Islas, J.A. De Agustin, A. Fernandez-Ortiz, M.A. Garcia-Fernandez, J. Villacastin, C. Macaya (Madrid, ES; Messina, IT)

Etiologies and predictors for 30-day readmission after pacemaker placement for atrioventricular block. A nationwide analysis. P1353

– A. Lemor, S. Lee, S.H. Hosseini Dehkordi, D. Mehta (New York, US)

Clinical features, predictors, and prognosis of pacing-induced cardiomyopathy. P1354

– S.W. Cho, H.B. Gwag, J.K. Hwang, K.M. Park, Y.K. On, J.S. Kim, S.J. Park (Seoul, KR)

BEST POSTERS IN ACUTE CARDIOVASCULAR CARE

Discussant: Best Posters in acute cardiovascular care. P1355
 – C.P. Gale (Leeds, UK), H. Bueno (Madrid, ES)

A nationwide study: Differences in use of neurological prognostication procedures in out-of-hospital cardiac arrest patients in intensive care units from 2004-2013. P1356

– M. Winther-Jensen, C. Hassager, J.F. Lassen, L. Kober, C. Torp-Pedersen, S.M. Hansen, F.K. Lippert, K. Kragholm, E.F. Christensen, J. Kjaergaard (Copenhagen and Aalborg, DK)

Sudden cardiac arrest related to coronary vasospasm: incidence, characteristics and outcomes. P1357

– V. Waldmann, W. Bougouin, N. Karam, A. Sharifzadehgan, V. Algalarrondo, E. Gandjbakhch, K. Narayanan, F. Dumas, L. Lamhaut, N. Aissaoui, N. Lellouche, F. Extramiana, A. Cariou, X. Jouven, E. Marijon (Paris, Clamart and Créteil, FR)

Myocardial infarction with non-obstructive coronary arteries is not a benign disorder: results from the SWEDEHEART registry. P1358

– M. Hjort, B. Lindahl, K.M. Eggers (Uppsala, SE)

Extent and treatment of acute coronary syndrome in coronary care units: cross-sectional survey of 32 ESC-member countries. P1359

– A. Roy, O. Bebb, M. Hall, T. Dondo, H. Bueno, E. Bonnefoy, M. Lettino, C.P. Gale (Manchester and Leeds, UK; Madrid, ES; Lyon, FR; Rozzano, IT)

Posters are on display from 08:30 to 12:30. Presenters will be by their poster during the coffee break between 10:00 and 11:00 for posters viewing time.

MITRAL VALVE INTERVENTIONS

MitraClip implantation as effective symptomatic therapy of dynamic mitral regurgitation unraveled by handgrip echocardiography. P1360

– M. Spieker, K. Hellhammer, P. Horn, M. Kelm, R. Westenfeld (Düsseldorf, DE)

Echocardiographic predictors for a single vs. multiclip strategy in percutaneous mitral valve repair. P1361

– B. Goebel, N. Wystub, A. Hamadanchi, I. Rohm, S. Otto, T. Doenst, P.C. Schulze, T.C. Poerner (Jena, DE)

In patients with end stage functional mitral regurgitation, mitral annulus geometry is independent on the ischemic or non-ischemic etiology of left ventricular dysfunction. P1362

– P. Aruta, L. Valente, N. Ruozi, S. Mihaila, D. Muraru, C. Palermo, U. Cucchini, I. Rigato, H. Rodriguez Zanella, E. Surkova, J. Bidviene, D.A. Cherata, H. Shehatat, S. Iliceto, L.P. Badano (Padua, IT; Bucharest and Craiova, RO; Mexico City, MX; Samara, RU; Kaunas, LT; Alexandria, EG)

Spherical ventricle, large left atrium size and anemia predict 1-year failure of MitraClip therapy in patients with functional mitral regurgitation. P1363

– K. Hellhammer, R. Tigges, M. Spieker, R. Westenfeld, T. Zeus, M. Kelm, P. Horn (Düsseldorf, DE)

Impact of post-procedural mitral stenosis on long-term outcome in high-risk mitral patients treated successfully by MitraClip implantation. P1364

– D. Kalbacher, E. Tigges, C.H. Thomas, F. Deuschl, N. Schofer, J. Schirmer, L. Conradi, H. Reichenspurner, S. Blankenberg, U. Schaefer, E. Lubos (Hamburg, DE)

Evaluation of cystatin C and NGAL as predictors of mortality in patients undergoing percutaneous mitral valve repair. P1365

– O. Doerr, C. Walther, C. Liebetrau, M. Ortleib, J. Lorenz, H. Moellmann, L. Gaede, N. Boeder, K.F. Weipert, C. Troidl, S. Voss, T. Bauer, C. Hamm, H.M. Nef (Giessen, Bad Nauheim and Dortmund, DE)

Acute and chronic remodeling after interventional edge-to-edge repair of mitral regurgitation using cardiac magnetic resonance imaging. P1366

– S. Blazek, M. Roeder, C. Besler, J. Seeburger, T. Noack, F.W. Mohr, C. Luecke, M. Gutberlet, A. Linke, G. Schuler, P. Lurz (Leipzig, DE)

Effects of levosimendan therapy in patients with severe functional mitral regurgitation and chronic heart failure undergoing mitralclip implantation: a single-centre experience. P1367

– F. Fiorelli, C. Giannini, A.S. Petronio, R. Liga, P. Spontoni, M. De Carlo, E. Marraccini, A. Pieroni, F. Guarracino (Pisa, IT)

Anaemia is a predictor of mortality in patients with mitral regurgitation undergoing transcatheter edge-to-edge mitral valve repair. P1368

– K. Meemook, Y. Nakajima, M. Nakamura, A. Hussaini, S. Kar (Los Angeles, US)

Galectin-3 and ST-2 as predictors of therapeutic success in high-risk patients undergoing percutaneous mitral valve repair (MitraClip). P1369

– O. Doerr, C. Walther, C. Liebetrau, T. Sommer, J. Lorenz, H. Moellmann, L. Gaede, N.F. Boeder, K. Weipert, C. Troidl, S. Voss, T. Bauer, C. Hamm, H.M. Nef (Giessen, Bad Nauheim and Dortmund, DE)

Ex-vivo pathological models of mitral and tricuspid regurgitation for realistic clinical training and new treatment approaches evaluation. P1370

– M. Jaworek, G. Gelpi, F. Lucherini, C. Romagnoni, M. Contino, A. Mangini, P. Romitelli, M. Piola, C. Antona, G.B. Fiore, R. Vismara (Milan, IT; Brussels, BE)

Incidence, predictors, and clinical impact of major bleeding events after transcatheter mitral valve edge-to-edge repair. P1371

– S. Kubo, A. Hussaini, S. Kar (Kurashiki, JP; Los Angeles, US)

Myocardial fibrosis predicts adverse outcome after percutaneous mitral valve repair. P1372

– J.F. Velu, A. Hirsch, K.T. Koch, M.M. Vis, J.J. Piek, B.J. Bouma, J. Baan Jr (Amsterdam, NL)

Mitral balloon valvuloplasty long-term follow-up of single balloon versus inoue balloon techniques. independent predictors of survival and event free survival. P1373

– I.P. Borges, E.C.S. Peixoto, R.T.S. Peixoto, R.T.S. Peixotor, A.A.B. Aragao, V.F. Marcolla, I.L.P.B. Anjos, L.L.B. Bandeira (Rio de Janeiro, BR)

LONG-TERM OUTCOMES OF PCI

5-year results of the complete versus culprit vessel percutaneous coronary intervention in multivessel disease using drug-eluting stents II study. A prospective, randomized controlled trial. P1374

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Predictors of multiple percutaneous coronary interventions in a statewide database of 114,588 patients. P1375

– J.B. Kostis, J.Q. Cheng, W.J. Kostis (New Brunswick, US)

Landmark analysis of clinical outcome following first-generation vs newer-generation coronary drug-eluting stent implantation: A pooled analysis of SORT OUT III-V studies. P1376

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- Post-procedural increase of urinary kidney injury molecule type 1 predicts outcome in patients with coronary artery disease submitted to coronary angiography.** P1380
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- Impact of obstructive sleep apnea on cardiovascular outcomes after percutaneous coronary intervention: a systematic review and meta-analysis.** P1382
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– B. Muijaj, D. Bos, M. Selwaness, M. Leening, M. Kavousi, J. Wentzel, A. Van Der Lugt, A. Hofman, B. Stricker, M. Vernooij, O. Franco (Rotterdam, NL; Boston, US)

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– H. Aihara, A. Nagae, Y. Soga (Tsukuba and Kitakyushu, JP)

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– J.-W. Hwang, S. Kim, S.-J. Park, S.-A. Chang, S.-C. Lee, Y. Choe, S.-W. Park (Seoul, KR)

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- The relationship between intraplatelet oxidative stress and platelet aggregation in patients with stable coronary artery disease.** P1790
 – A.S. Hodoroagea, A.S. Serban-Liteanu, M. Iordache, I. Pisica, P. Dragomir, G.S. Gheorghe, I.T. Nanea, T. Savopol, A.M. Iliesiu (Bucharest, RO)
- Neutrophil lymphocyte ratio and risks of cardiovascular diseases: a systematic review and meta-analysis.** P1791
 – T. Angkananard, T. Anothaisintawee, A. Thakkinstian (Nakhon Nayok and Bangkok, TH)
- Impact of baseline high-sensitive C-reactive protein on the regression of coronary atherosclerosis in patients treated with combined lipid and blood pressure-lowering therapy: Insight from MILLION stu.** P1792
 – K. Sakata, T. Gamou, M. Kawashiri, T. Matsubara, H. Ino, K. Okeie, M. Namura, M. Yamagishi (Kanazawa, Komatsu and Takaoka, JP)
- Preprocedural neutrophil-lymphocyte ratio and long-term cardiac outcomes after percutaneous coronary intervention for stable coronary artery disease.** P1793
 – H. Wada, T.D. Dohi, K.M. Miyauchi, S.D. Doi, H.K. Konishi, R.N. Naito, S.T. Tsuboi, M.O. Ogita, T.K. Kasai, S.O. Okazaki, K.I. Isoda, S.S. Suwa, H.D. Daida (Tokyo, Izunokuni and Chiba, JP)
- Pro-inflammatory and pro-thrombotic phenotype of spontaneously differentiated human monocyte-derived macrophages in coronary heart disease patients: implications for plaque morphology and activity.** P1794
 – N. Cosentino, S. Eligini, S. Fiorelli, F. Fabbicchi, G. Niccoli, M. Camera, F. Fracassi, F. Crea, G. Marenzi, E. Tremoli (Milan and Rome, IT)
- Association of the miR-196a2 (rs11614913) polymorphism with risk of developing coronary artery disease, but not with restenosis after coronary stenting.** P1795
 – J.M. Fragoso, J. Ramirez-Bello, M.A. Martinez-Rios, M.A. Pena-Duque, C. Posadas-Romero, R. Posadas-Sanchez, M. Jimenez-Morales, G. Vargas-Alarcon (Mexico City, MX)
- Inflammatory response and myocardial reperfusion in patients with ST-elevation myocardial infarction treated with primary percutaneous coronary intervention.** P1796
 – A. Demarchi, A. Mandurino-Mirizzi, M. Ruffinazzi, G. Crimi, A. Ravera, M. Ferlini, R. Camporotondo, G.M. De Ferrari (Pavia, IT)
- RORC/FoxP3 methylation as a clinical indicator of Th17/Treg immune imbalance in patients with acute coronary syndrome.** P1797
 – C. Lu (Shijiazhuang, CN)
- May be inflammatory charge a new risk factor for myocardial infarction with non-obstructive coronary arteries?** P1798
 – J. Lopez Pais, B. Izquierdo Coronel, D. Galan Gil, M.J. Espinosa Pascual, P. Awamleh Garcia, C.G. Martinez Peredo, J. Alonso Martin (Getafe, ES)
- Coronary microvascular dysfunction in patients with acute coronary syndromes in the absence of obstructive coronary atherosclerosis.** P1799
 – A. De Vita, P. Lamendola, L. Manfredonia, G. Russo, A. Villano, A. Di Franco, L. Gentile, G.A. Lanza, F. Crea (Rome, IT)
- The value of speckle-tracking echocardiography for detection of coronary microvascular disease.** P1800
 – O.M. Galuszka, D. Steffens, J. Friebe, U. Rauch-Krohnert, U. Landmesser, M. Kasner (Berlin, DE)
- Comparison between minimum lumen area and integrated backscatter intravascular ultrasound derived intraluminal ultrasonic intensity for detecting functionally significant coronary artery stenosis.** P1801
 – H. Takami, S. Sonoda, A. Shimizu, R. Anai, Y. Muraoka, Y. Sanuki, Y. Tsuda, M. Araki, Y. Otsuji (Kitakyushu, JP)
- 7 years' experience of shockwave therapy as an alternative coronary artery disease treatment modality.** P1802
 – V. Goh, T.K.C. Cheng, B.W.Y. Kwan, A.H.C. Wong, H.H.M. Leung (Hong Kong, HK)
- Investigating the GSK3beta mPTP link by means of novel GSK3beta inhibitors in ischemia/reperfusion injury.** P1803
 – P. Efentakis, P. Nikolaou, N. Gaboriaud-Kolar, S.I. Bibli, V. Myrianthopoulos, A.L. Skaltsounis, A. Papapetropoulos, E.K. Iliodimitis, I. Andreadou (Athens, GR)

12:45–13:45 | Barcelona - Main Auditorium

PROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 9 (PCSK9) INHIBITORS: THE NEXT CHAPTER IN CARDIOVASCULAR DISEASE PREVENTION Satellite Symposium

Sponsored by Amgen GmbH

Chairperson(s): J. Chapman (Paris, FR)

- | | | |
|-------|---|------|
| 12:45 | Introduction - PCSK9 inhibitors: the next chapter in CVD prevention. | 1804 |
| | – J. Chapman (Paris, FR) | |
| 12:50 | CVD prevention and event reduction. | 1805 |
| | – M. Sabatine (Boston, US) | |
| 13:10 | Future perspectives in lipid lowering and CVD prevention. | 1806 |
| | – P.S. Sever (London, UK) | |
| 13:30 | Panel discussion - PCSK9 inhibitors: the next chapter in CVD prevention. | 1807 |
| | – J. Chapman (Paris, FR) | |
| 13:40 | Close - PCSK9 inhibitors: the next chapter in CVD prevention. | 1808 |
| | – J. Chapman (Paris, FR) | |

12:45–13:45 | Dublin - Village 1

HOW N-TERMINAL PRO-BRAIN NATRIURETIC PEPTIDE (NT-PROBNP) CAN HELP US ALL ALONG HEART FAILURE PATIENT JOURNEY: FROM GUIDELINES TO IMPLEMENTATION IN OUR DAILY PRACTICE Satellite Symposium

Sponsored by Roche Diagnostics International

Chairperson(s): M.R. Cowie (London, UK); A. Bayes Genis (Badalona, ES)

- | | | |
|-------|---|------|
| 12:45 | Introduction - How NT-proBNP can help us all along heart failure patient journey: from guidelines to implementation in our daily practice. | 1809 |
| | – M.R. Cowie (London, UK), A. Bayes Genis (Badalona, ES) | |
| 12:47 | The role and the place of natriuretic peptides in the 2016 ESC Guidelines. | 1810 |
| | – A. Mebazaa (Paris, FR) | |
| 13:05 | From guidelines to implementation in our daily practice: use of natriuretic peptides in clinical cases. | 1811 |
| | – Y. Pinto (Amsterdam, NL) | |
| 13:25 | Panel discussion - How NT-proBNP can help us all along heart failure patient journey: from guidelines to implementation in our daily practice. | 1812 |

12:45–13:45 | Fira - Village 1

CARDIOVASCULAR RISK REDUCTION AND DYSLIPIDAEMIA MANAGEMENT: CURRENT STATE AND FUTURE THERAPIES Satellite Symposium

Sponsored by Cleveland Clinic

Chairperson(s): L. Cho (Cleveland, US); S.E. Nissen (Cleveland, US)

- | | | |
|-------|--|------|
| 12:45 | PCSK9 inhibitors post Fourier: who should be treated and when? | 1813 |
| | – S.E. Nissen (Cleveland, US) | |
| 13:00 | siRNA therapy: the dawn of a new agent in cholesterol lowering? | 1814 |
| | – L. Cho (Cleveland, US) | |
| 13:15 | Is Lp(a) a risk factor for cardiovascular disease and is it worth treating? | 1815 |
| | – E. Stroes (Amsterdam, NL) | |
| 13:30 | Current state of knowledge on the mechanism of action of bempedoic acid and its potential for LDL-C lowering and CV risk reduction. | 1816 |
| | – S.J. Nicholls (Adelaide, AU) | |

12:45–13:45 | Astana - Village 2

ENABLING AND OPTIMISING RENIN-ANGIOTENSIN-ALDOSTERONE SYSTEM INHIBITOR THERAPY IN CARDIO-RENAL PATIENTS THROUGH HYPERKALAEMIA MANAGEMENT Satellite Symposium

Sponsored by Vifor Pharma/Vifor Fresenius Medical Care Renal Pharma

Chairperson(s): M. Böhm (Homburg, DE)

- | | | |
|-------|---|------|
| 12:45 | Introduction - Enabling and renin-angiotensin-aldosterone system inhibitor therapy in cardio-renal patients through hyperkalaemia management. | 1817 |
| | – M. Böhm (Homburg, DE) | |
| 12:50 | Renin-angiotensin-aldosterone system inhibitor therapy benefit and challenges in cardio-renal patients. | 1818 |
| | – M. Weir (Baltimore, US) | |
| 13:05 | Changing the treatment paradigm of hyperkalaemia management to enable and optimise renin-angiotensin-aldosterone system inhibitor therapy. | 1819 |
| | – S.D. Anker (Berlin, DE) | |
| 13:20 | Panel discussion - Enabling and optimising renin-angiotensin-aldosterone system inhibitor therapy in cardio-renal patients through hyperkalaemia management. | 1820 |
| | – M. Böhm (Homburg, DE) | |
| 13:40 | Summary and conclusion - Enabling and optimising renin-angiotensin-aldosterone system inhibitor therapy in cardio-renal patients through hyperkalaemia management. | 1821 |
| | – M. Böhm (Homburg, DE) | |

12:45–13:45 | Pristina - Village 2

HYPERURICAEMIA: GETTING TO THE HEART OF THE PROBLEM? Satellite Symposium

Sponsored by The Menarini Group

Chairperson(s): C. Borghi (Bologna, IT); A.F. Dominiczak (Glasgow, UK)

- | | | |
|-------|--|------|
| 12:45 | Introduction - Hyperuricaemia: getting to the heart of the problem? | 1822 |
| | – A.F. Dominiczak (Glasgow, UK) | |
| 12:50 | Hyperuricaemia in the setting of cardiovascular disease. | 1823 |
| | – C. Borghi (Bologna, IT) | |
| 13:05 | Hyperuricaemia and arrhythmias: are we missing a beat? | 1824 |
| | – P. Collins (Richmond, UK) | |
| 13:20 | Symptomatic hyperuricaemia in at-risk patients: how should we treat? | 1825 |
| | – A. Coca (Barcelona, ES) | |
| 13:35 | Discussion and closure - Hyperuricaemia: getting to the heart of the problem? | 1826 |
| | – A.F. Dominiczak (Glasgow, UK) | |

12:45–13:45 | Beirut - Village 3

2017 UPDATE ON PULMONARY HYPERTENSION Satellite Symposium

Sponsored by MSD

Chairperson(s): H.A. Ghofrani (Giessen, DE); N. Kim (La Jolla, US)

- | | | |
|-------|--|------|
| 12:45 | Welcome - 2017 update on pulmonary hypertension. | 1827 |
| | – H.A. Ghofrani (Giessen, DE), N. Kim (La Jolla, US) | |
| 12:50 | Challenges of chronic thromboembolic pulmonary hypertension (CTEPH) diagnosis: pulmonary embolism to CTEPH early diagnosis. | 1828 |
| | – M. Delcroix (Leuven, BE) | |
| 13:05 | Treatment options for chronic thromboembolic pulmonary hypertension: what for whom? | 1829 |
| | – A. Torbicki (Otwock, PL) | |
| 13:20 | How to optimize the NO-sGC-cGMP pathway in treating pulmonary arterial hypertension. | 1830 |
| | – M.M. Hoeper (Hannover, DE) | |
| 13:35 | Panel discussion - 2017 update on pulmonary hypertension. | 1831 |
| | – H.A. Ghofrani (Giessen, DE), N. Kim (La Jolla, US) | |

12:45–13:45 | Riga - Village 3

ASPIRIN AT 120: CARDIOPROTECTION AND BEYOND Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): C. Patrono (Rome, IT)

- | | | |
|-------|---|------|
| 12:45 | Introduction and welcome - Aspirin at 120: cardioprotection and beyond. | 1832 |
| | – C. Patrono (Rome, IT) | |
| 12:50 | Aspirin progress report: 120 years and the research continues. | 1833 |
| | – H. Bueno (Madrid, ES) | |
| 13:05 | Non-vascular outcomes: re-evaluating the benefit-risk profile of low-dose aspirin. | 1834 |
| | – C. Patrono (Rome, IT) | |
| 13:25 | Identifying the aspirin patient: interactive case presentations. | 1835 |
| | – G. Biondi-Zoccai (Latina, IT) | |

12:45–13:45 | Chisinau - Village 4

FROM CLINICAL THEORY TO CLINICAL PRACTICE... PHASE III STUDIES OF THE NOVEL ORAL ANTICOAGULANTS (NOACs) TO REAL WORLD EVIDENCE (RWE) Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): A.J. Camm (London, UK); C.I. Coleman (Suffield, US)

- | | | |
|-------|---|------|
| 12:45 | Opening remarks - From clinical theory to clinical practice... Phase III studies of the NOACs to RWE. | 1836 |
| | – A.J. Camm (London, UK), C.I. Coleman (Suffield, US) | |
| 12:50 | From clinical trial to clinical practice... What questions remain with respect to the NOACs. | 1837 |
| | – M. Patel (Durham, US) | |
| 13:00 | Prospective RWE - the XANTUS programme. | 1838 |
| | – A.J. Camm (London, UK) | |
| 13:10 | Evaluating the prospective RWE registries... The rules. | 1839 |
| | – J. Beyer-Westendorf (Dresden, DE) | |
| 13:20 | Understanding real-world database analyses. | 1840 |
| | – C.I. Coleman (Suffield, US) | |
| 13:30 | Making sense of the data. | 1841 |
| | – A.J. Camm (London, UK), C.I. Coleman (Suffield, US), J. Beyer-Westendorf (Dresden, DE), M. Patel (Durham, US) | |
| 13:44 | Closing remarks - From clinical theory to clinical practice... Phase III studies of the NOACs to RWE. | 1842 |
| | – A.J. Camm (London, UK), C.I. Coleman (Suffield, US) | |

12:45–13:45 | Vilnius - Village 4

IMPROVING CARDIOVASCULAR OUTCOMES IN PATIENTS WITH TYPE 2 DIABETES: WHERE DOES THE EVIDENCE LEAD US? Satellite Symposium

Sponsored by Boehringer Ingelheim & Eli Lilly and Company Diabetes Alliance

Chairperson(s): N. Marx (Aachen, DE)

- | | | |
|-------|--|------|
| 12:45 | Introduction – Improving cardiovascular outcomes in patients with type 2 diabetes: where does the evidence lead us? | 1843 |
| | – N. Marx (Aachen, DE) | |
| 12:50 | Managing cardiovascular outcomes in patients with type 2 diabetes – Where have we come from and where are we going? | 1844 |
| | – D. McGuire (Dallas, US) | |
| 13:00 | Cardiovascular risk reduction with empagliflozin: exploring the evidence from EMPA-REG OUTCOME®. | 1845 |
| | – F. Zannad (Vandoeuvre-lès-Nancy, FR) | |
| 13:15 | Using empagliflozin in your patients with type 2 diabetes: considerations for daily patient care. | 1846 |
| | – J. Udell (Toronto, CA) | |
| 13:25 | Experience with empagliflozin: insights from practice. | 1847 |
| | – N. Marx (Aachen, DE), D. McGuire (Dallas, US), F. Zannad (Vandoeuvre-lès-Nancy, FR), J. Udell (Toronto, CA) | |
| 13:40 | Chair's summary and audience Q&A. | 1848 |
| | – N. Marx (Aachen, DE) | |
| 13:45 | Close – Improving cardiovascular outcomes in patients with type 2 diabetes: where does the evidence lead us? | 1849 |
| | – N. Marx (Aachen, DE) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Sunday 27 August, 15:45–16:15 in Goya - The Hub.

12:45–13:45 | Skopje - Village 5


BREAKTHROUGHS IN AF: FROM RE-CIRCUIT TO REVERSAL

Sponsored by Boehringer Ingelheim

Chairperson(s): G.Y.H. Lip (Birmingham, UK); H. Calkins (Baltimore, US)

- | | | |
|-------|---|------|
| 12:45 | Periprocedural oral anticoagulant use: an evolving field. | 1850 |
| | – G.Y.H. Lip (Birmingham, UK) | |
| 12:50 | Uninterrupted dabigatran in AF ablation: the RE-CIRCUIT trial. | 1851 |
| | – S. Willems (Hamburg, DE) | |
| 13:05 | RE-CIRCUIT and reversal: how is our practice changing? | 1852 |
| | – H. Calkins (Baltimore, US) | |
| 13:20 | Outstanding questions in ablation: what else can RE-CIRCUIT tell us? | 1853 |
| | – R. Schilling (London, UK) | |
| 13:35 | Audience Q&A - Breakthroughs in AF: from RE-CIRCUIT to reversal. | 1854 |
| | – G.Y.H. Lip (Birmingham, UK), H. Calkins (Baltimore, US) | |

Complementary Satellite Symposia - Experts on the Spot sessions scheduled on Sunday 27 August, 10:15–10:45 in Picasso - The Hub and on Sunday 27 August, 15:45–16:15 in Picasso - The Hub.

 **Vote & Ask a Question**

Satellite Symposium

12:45–13:45 | Bishkek - Village 6

TRANSCATHETER MITRAL VALVE REPAIR THERAPY: ADDING LIFE TO YEARS... AND MORE! Satellite Symposium

Sponsored by Abbott Vascular

Chairperson(s): T. Feldman (Evanston, US); O. Alfieri (Milan, IT)

- 12:45 **Introduction - Transcatheter mitral valve repair therapy: adding life to years... And more!** 1855
- 12:48 **Severe mitral regurgitation: what are we talking about?** 1856
– M. Senni (Bergamo, IT)
- 13:02 **What do the guidelines tell us?** 1857
– V. Falk (Berlin, DE)
- 13:12 **50000 good reasons to refer severe mitral regurgitation patient to transcatheter mitral valve repair.** 1858
– T. Feldman (Evanston, US)
- 13:26 **Transcatheter mitral valve repair: keys for success.** 1859
– K.-H. Kuck (Hamburg, DE)
- 13:40 **Take home messages - Transcatheter mitral valve repair therapy: adding life to years... And more!** 1860

12:45–13:45 | Luxembourg - Village 6

PAH – TIMELY AND EFFECTIVE DECISIONS IN CLINICAL PRACTICE Satellite Symposium

Sponsored by Actelion Pharmaceuticals Ltd

Chairperson(s): P. Escribano Subias (Madrid, ES); I.M. Lang (Vienna, AT)

- 12:45 **PAH – A multifaceted disease.** 1861
– P. Escribano Subias (Madrid, ES)
- 12:50 **Controlling disease progression – Is there still a place for monotherapy?** 1862
– N. Galie (Bologna, IT)
- 13:10 **From theory to practice – A patient case.** 1863
– J.S.R. Gibbs (London, UK)
- 13:30 **Q&A - PAH – Timely and effective decisions in clinical practice.** 1864
- 13:40 **Final remarks - PAH – Timely and effective decisions in clinical practice.** 1865
– I.M. Lang (Vienna, AT)

12:45–13:45 | Podgorica - Village 6

PUTTING POLYPILLS INTO PRACTICE Satellite Symposium

Sponsored by Ferrer

Chairperson(s): V. Fuster (New York, US)

- 12:45 **Myths and legends of the polypill in 2017.** 1866
– J.M. Castellano Vazquez (Madrid, ES)
- 12:55 **Implementing the polypill in clinical practice: do we really need more evidence?** 1867
– S. Yusuf (Hamilton, CA)
- 13:10 **A call to action: the CV polypill as a public health strategy to optimize CV therapy worldwide.** 1868
– V. Fuster (New York, US)
- 13:25 **Debate - Putting polypills into practice.** 1869
– V. Fuster (New York, US), J.M. Castellano Vazquez (Madrid, ES), S. Yusuf (Hamilton, CA)
- 13:40 **Q&A - Putting polypills into practice.** 1870

12:45–13:45 | Oslo - Village 7

THE CHANGING LANDSCAPE OF ORAL ANTICOAGULATION FOR ATRIAL FIBRILLATION Satellite Symposium

Sponsored by DAIICHI SANKYO EUROPE GmbH

Chairperson(s): J. Weitz (Hamilton, CA); A. Goette (Paderborn, DE)

- 12:45 **Introduction - The changing landscape of oral anticoagulation for atrial fibrillation.** 1871
– A. Goette (Paderborn, DE)
- 12:50 **Expanding the clinical landscape: the evolving role of non-vitamin K antagonist oral anticoagulants.** 1872
– J. Weitz (Hamilton, CA)
- 13:00 **How to choose the right NOAC for your patients.** 1873
– C. Bode (Freiburg, DE)
- 13:15 **Translating ENGAGE AF-TIMI 48 into clinical practice.** 1874
– R.P. Giugliano (Boston, US)
- 13:35 **Panel discussion - The changing landscape of oral anticoagulation for atrial fibrillation.** 1875
– J. Weitz (Hamilton, CA), A. Goette (Paderborn, DE)
- 13:40 **Wrap-up - The changing landscape of oral anticoagulation for atrial fibrillation.** 1876
– J. Weitz (Hamilton, CA)

Complementary Satellite Symposium - Experts on the Spot session scheduled on Tuesday 29 August, 10:15–10:45 in Miro - The Hub.

12:45–13:45 | Rabat - Village 7

NOVEL INVASIVE INDICES FOR EPICARDIAL AND MICROVASCULAR ASSESSMENT

Satellite Symposium

Sponsored by Abbott / St. Jude Medical

Chairperson(s): B. De Bruyne (Aalst, BE)

- 12:45 **Introduction and objectives - Novel invasive indices for epicardial and microvascular assessment.** 1877
– T. Gori (Mainz, DE)
- 12:50 **FFR versus resting indices: recent thoughts.** 1878
– K.G. Oldroyd (Glasgow, UK)
- 13:05 **The growing evidence supporting the use of FFR in ACS patients.** 1879
– P.C. Smits (Rotterdam, NL)
- 13:20 **Microcirculation assessment: IMR, absolute flow and resistance.** 1880
– N.H.J. Pijls (Eindhoven, NL)
- 13:35 **Discussion and take-home message - Novel invasive indices for epicardial and microvascular assessment.** 1881
– T. Gori (Mainz, DE)

12:45–13:45 | Bucharest - Village 8

DUAL ANTIPLATELET THERAPY AFTER AN ACUTE CORONARY SYNDROME: CONFRONTING THE DISPARITY BETWEEN GUIDELINES AND CLINICAL PRACTICE

Satellite Symposium

Sponsored by AstraZeneca

Chairperson(s): P.G. Steg (Paris, FR); R. Mehran (New York, US)

- 12:45 **Welcome and introduction - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice.** 1882
– P.G. Steg (Paris, FR)
- 12:50 **Early initiation of dual anti-platelet therapy following an acute coronary syndrome: the clinical reality.** 1883
– S. James (Uppsala, SE)
- 13:10 **Extending the duration of dual antiplatelet therapy - Who could benefit?** 1884
– D.J. Angiolillo (Jacksonville, US)
- 13:30 **Discussion - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice.** 1885
– P.G. Steg (Paris, FR), D.J. Angiolillo (Jacksonville, US), S. James (Uppsala, SE), R. Mehran (New York, US)
- 13:40 **Summary and Close - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice.** 1886
– R. Mehran (New York, US)

Complementary Satellite Symposia - Experts on the Spot sessions scheduled on Sunday 27 August, 15:45–16:15 in Miro - The Hub and on Monday 28 August, 10:15–10:45 in Miro - The Hub.

12:45–13:45 | Tripoli - Village 8

HOW THE LATEST ECHO ADVANCES ARE CHANGING CLINICAL PRACTICE: PANEL DISCUSSION WITH CASE PRESENTATION

Satellite Symposium

Sponsored by Philips

Chairperson(s): R.S. Von Bardeleben (Mainz, DE); J.-L. Vanoverschelde (Brussels, BE)

- 12:45 **Session opening - How the latest echo advances are changing clinical practice: panel discussion with case presentation.** 1887
– J.-L. Vanoverschelde (Brussels, BE)
- 12:48 **Panel discussion and case presentation illustrating changes in diagnostic echo.** 1888
– F.F. Faletra (Lugano, CH), C. Fernandez-Golfin (Madrid, ES)
- 13:15 **Panel discussion and case presentation illustrating changes in pericardial echo.** 1889
– J.L. Zamorano Gomez (Madrid, ES), M.J. Monaghan (London, UK)
- 13:41 **Closing remarks - How the latest echo advances are changing clinical practice: panel discussion with case presentation.** 1890
– R.S. Von Bardeleben (Mainz, DE)



12:45–13:45 | Lisbon - Village 9

3 OUT OF 4 HYPERTENSIVE PATIENTS NOT CONTROLLED OVER 24 HOURS: WHAT ARE THE SOLUTIONS? Satellite Symposium

Sponsored by **SERVIER**

Chairperson(s): B. Williams (London, UK); C. Tsioufis (Athens, GR)

- | | | |
|-------|--|------|
| 12:45 | Introduction - 3 out of 4 hypertensive patients not controlled over 24 hours: what are the solutions? | 1891 |
| | – C. Tsioufis (Athens, GR) | |
| 12:48 | Are screening programmes for hypertension efficient? | 1892 |
| | – B. Williams (London, UK) | |
| 13:03 | Masked uncontrolled hypertension: a case study illustration. | 1893 |
| | – G. Stergiou (Athens, GR) | |
| 13:18 | Use of long-acting treatments to avoid masked hypertension. | 1894 |
| | – K. Narkiewicz (Gdansk, PL) | |
| 13:33 | Discussion - 3 out of 4 hypertensive patients not controlled over 24 hours: what are the solutions? | 1895 |
| | – K. Narkiewicz (Gdansk, PL), G. Stergiou (Athens, GR), C. Tsioufis (Athens, GR), B. Williams (London, UK) | |
| 13:43 | Conclusion - 3 out of 4 hypertensive patients not controlled over 24 hours: what are the solutions? | 1896 |
| | – B. Williams (London, UK) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Sunday 27 August, 15:45–16:15 in Gaudi - The Hub.

12:45–13:45 | Warsaw - Village 9

ON THE CUTTING EDGE OF HEART FAILURE MANAGEMENT: 2017 Satellite Symposium

Organised by **Medscape Education**, supported with an educational grant by **Novartis**

Chairperson(s): M. Komajda (Paris, FR)

- | | | |
|-------|---|------|
| 12:45 | Welcome & introduction - On the cutting edge of heart failure management: 2017. | 1897 |
| | – M. Komajda (Paris, FR) | |
| 12:50 | My heart failure patient in 2017: never too early and never stable! | 1898 |
| | – J.J.V. McMurray (Glasgow, UK) | |
| 13:00 | What do the guidelines recommend? | 1899 |
| | – F. Ruschitzka (Zurich, CH) | |
| 13:15 | My heart failure patient in 2017: how did we do? | 1900 |
| | – J.J.V. McMurray (Glasgow, UK) | |
| 13:25 | Heart failure care - Where can things go wrong? | 1901 |
| | – D. Atar (Oslo, NO) | |
| 13:40 | Panel discussion and conclusion - On the cutting edge of heart failure management: 2017. | 1902 |
| | – M. Komajda (Paris, FR) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Saturday 26 August, 12:45–13:15 in Gaudi - The Hub.

13:00–13:45 | Goya - The Hub

A FUTURE WITH AN EFFECTIVE AND SMART TREATMENT OF THROMBOSIS Satellite Symposium

Sponsored by **EKOS**, a **BTG International** group company

Chairperson(s): N. Kucher (Bern, CH)

- | | | |
|-------|--|------|
| 13:00 | Evidence for ultrasound assisted thrombolysis in pulmonary embolism patients. | 1903 |
| | – N. Kucher (Bern, CH) | |
| 13:15 | Fast track treatment of pulmonary embolism. | 1904 |
| | – R. Kolvenbach (Düsseldorf, DE) | |
| 13:30 | OPTALYSE. | 1905 |
| | – G. Piazza (Boston, US) | |

13:00–13:45 | Valetta - Village 5

HOW THE NEW ESC CLINICAL PRACTICE GUIDELINES ON VALVULAR HEART DISEASE COULD CHANGE THE TREATMENT OF PATIENTS WITH AORTIC STENOSIS Satellite Symposium

Sponsored by Edwards Lifesciences

Chairperson(s): A. Vahanian (Paris, FR); M. Czerny (Freiburg, DE)

- | | | |
|-------|---|------|
| 13:00 | What is the evidence supporting the new valvular heart disease (VHD) guidelines regarding severe aortic stenosis (AS) treatment? | 1906 |
| | – S. Windecker (Bern, CH) | |
| 13:10 | New VHD guidelines – The European Association for Cardio-Thoracic Surgery (EACTS) / surgeon perspective. | 1907 |
| | – M. Czerny (Freiburg, DE) | |
| 13:15 | New VHD guidelines – What are the implications for the cardiologist? | 1908 |
| | – M. Paul (Münster, DE) | |
| 13:30 | New VHD guidelines – What are the implications for transcatheter aortic valve implantation (TAVI) implanters & patients? | 1909 |
| | – J. Mehilli (Munich, DE) | |

14:00–15:30 | Barcelona - Main Auditorium

ESC GUIDELINES 2017 – AMI-STEMI

Main Session

Chairperson(s): B. Ibanez (Madrid, ES); S. James (Uppsala, SE)

14:00	Welcome and general overview of 2017 STEMI Guidelines. – S. James (Uppsala, SE)	1910
14:15	Acute cardiac care in stable and unstable STEMI. – P. Vranckx (Hasselt, BE)	1911
14:25	Primary PCI and fibrinolysis procedures. – S. Halvorsen (Oslo, NO)	1912
14:40	Long-term therapies after STEMI. – E. Prescott (Copenhagen, DK)	1913
14:50	Myocardial infarction with normal coronary arteries. – S. Agewall (Oslo, NO)	1914
15:00	Quality indicators in STEMI: measure to improve. – H. Bueno (Madrid, ES)	1915
15:10	Future challenges in STEMI treatment. – B. Ibanez (Madrid, ES)	1916

14:00–15:30 | Spotlight Stage



LATE-BREAKING SCIENCE IN PCI 2

Late-Breaking Science

Chairperson(s): L. Holmvang (Copenhagen, DK); P.W.J.C. Serruys (Rotterdam, NL)

14:00	The Bivalirudin versus Heparin in non-ST and ST-segment elevation myocardial infarction in patients on modern antiplatelet therapy in SWEDEHEART. – D. Erlinge (Lund, SE)	1917
14:15	Efficacy and Safety of a Pharmacologic Invasive Strategy versus Primary Angioplasty in ST-Elevation Myocardial Infarction: The EARLY-MYO Trial. – B. HE (Shanghai, CN)	1918
14:30	Testing Responsiveness to Platelet Inhibition on Chronic Antiplatelet Treatment for Acute Coronary Syndromes - TROPICAL-ACS Trial. – D. Sibbing (Munich, DE)	1919
14:45	RE-DUAL PCI : Dual Antithrombotic Therapy with Dabigatran After Percutaneous Coronary Intervention in Patients with Atrial Fibrillation. – C.P. Cannon (Boston, US)	1920
15:00	Have we reached the bottom line in mortality after Acute Myocardial Infarction? Changes over 20 years in patient characteristics, management, and 6-month outcomes in the FAST-MI programme: 1995-2015. – N. Danchin (Paris, FR)	1921
15:15	Improvement in FFR predicts 2 years outcome after PCI. A FAME 2 Sub-Analysis. – S. Fournier (Aalst, BE)	1922

14:00–15:30 | Dali - The Hub



VIABILITY IN CLINICAL DECISION MAKING

Great Debate

Chairperson(s): S. Rahimtoola (Los Angeles, US); A.J.H.A. Scholte (Leiden, NL)

14:00	Positioning of the topic - Methods for viability assessment. – R. Bonow (Chicago, US)	1923
14:15	Viability imaging is clinically relevant for decision making - PRO. – R. Gibbons (Rochester, US)	1924
14:35	Viability imaging is clinically relevant for decision making - CON. – H.E. Botker (Aarhus, DK)	1925
14:55	Viability imaging is clinically relevant for decision making - Rebuttal PRO. – R. Gibbons (Rochester, US)	1926
15:00	Viability imaging is clinically relevant for decision making - Rebuttal CON. – H.E. Botker (Aarhus, DK)	1927
15:05	Viability in clinical decision making - Moderated discussion.	1928
15:20	Viability in clinical decision making - Chairperson conclusion. – S. Rahimtoola (Los Angeles, US)	1929

14:00–15:30 | Gaudi - The Hub

BEST CLINICAL CASES – AWARDS SESSION

Clinical Cases

Chairperson(s): M. Pazdernik (Prague, CZ); M. Lettino (Milan, IT)

14:00	Occlusive inflammatory coronary microvascular disease in a patient with a complex autoimmune overlap syndrome presenting with malignant ventricular arrhythmias.	1930
	– G. Peretto (Milan, IT)	
14:15	Defibrillation to the beat of Bee Gees “Stayin’ alive”. Should we ever stop? A case of multiple cardiac arrests in postpartum.	1931
	– M.W. Walczewski (Legionowo, PL)	
14:30	Discussion.	1932
	– C. Raimondo (Carmagnola, IT), J. Poess (Lübeck, DE)	
14:45	Superimposed myocarditis leading to heart transplantation in a young patient with arrhythmogenic right ventricular dysplasia.	1933
	– A.M. Saguner (Zurich, CH)	
15:00	One extra plug to completely seal the left atrial appendage - procedure guided by 3D-printed model of the heart.	1934
	– R. Pracon (Otwock, PL)	
15:15	Discussion.	1935
	– L. Chrzanowski (Lodz, PL), A. Abdin (Lübeck, DE)	

14:00–15:30 | Goya - The Hub

DEVELOPMENTS IN CARDIOVASCULAR TRANSLATIONAL RESEARCH

Symposium

Joint with the International Society for Cardiovascular Translational Research

Chairperson(s): J.J. Bax (Leiden, NL); A. DeMaria (La Jolla, US)

14:00	The optimal process of translating basic innovations into clinical care.	1936
	– N. Dib (Gilbert, US)	
14:22	Importance and limitations of randomised clinical trials.	1937
	– A. DeMaria (La Jolla, US)	
14:45	The journey to precision medicine.	1938
	– R. Roberts (Ottawa, CA)	
15:07	Sharing of clinical trial data.	1939
	– E. Braunwald (Boston, US)	

14:00–15:30 | Miro - The Hub

THE NEW CIRCULATION: EXPANDING FRONTIERS

Symposium

Joint with Circulation

Chairperson(s): J. Hill (Dallas, US); F. Van de Werf (Leuven, BE)

14:00	The new Circulation.	1940
	– J. Hill (Dallas, US)	
14:10	Imaging research in Circulation.	1941
	– V. Delgado (Leiden, NL)	
14:30	Coronary and interventional research in Circulation.	1942
	– P.G. Steg (Paris, FR)	
14:50	Population research in Circulation.	1943
	– T. Omland (Oslo, NO)	
15:10	Epidemiology and registry-based research in Circulation.	1944
	– N. Sattar (Glasgow, UK)	

14:00–15:30 | Picasso - The Hub

ENDOTHELIAL DYSFUNCTION

Rapid Fire Abstract

Chairperson(s): A.M. Zeiher (Frankfurt, DE); C.N. Bairey Merz (Los Angeles, US)

- 14:00 **Remote ischemic conditioning by single cuff inflation improves aortic elastic properties and endothelial glycocalyx thickness in acute myocardial infarction patients.** 1945
– I. Ikonomidis, D. Vlastos, S. Vlachos, D. Benas, M. Varoudi, I. Andreadou, H. Triantafyllidi, P. Efentakis, G. Makavos, J. Lekakis, E. Iliodromitis (Athens, GR)
- 14:09 **Evaluation of arterial stiffness and subfoveal choroid thickness in patients with slow coronary flow.** 1946
– Z. Dogan, O. Yesildag, C. Ileri, B.O. Sadic, M. Sunbul (Istanbul, TR)
- 14:18 **Biomarkers of microvascular endothelial dysfunction may predict dementia.** 1947
– H. Holm, K. Nagga, E.D. Nilsson, F. Ricci, O. Melander, O. Hansson, E. Bachus, M. Magnusson, A. Fedorowski (Malmö, SE; Chieti, IT)
- 14:27 **Deep hypothermia slows coronary blood velocity and increases endothelium-dependent vasodilator response in a porcine model.** 1948
– J. Bobi, N. Solanes, K. Ishida, A.P. Dantas, A. Regueiro, N. Castillo, M. Sabate, M. Rigol, X. Freixa (Barcelona, ES)
- 14:36 **Pseudoexfoliative glaucoma: associations of systemic inflammation with endothelial dysfunction and impaired arterial wall elastic properties.** 1949
– E. Bourouki, M. Moschos, E. Oikonomou, G. Siasos, G. Siasou, N. Gouliopoulos, T. Paraskevopoulos, G.A. Papamikroulis, G. Vogiatzi, S. Tsalamandris, A. Antonopoulos, D. Tousoulis (Athens, GR)
- 14:45 **Effects of common genetic variants on preclinical vascular alterations and the possible role of cystatin-C in untreated hypertension.** 1950
– E. Androulakis, N. Papageorgiou, E. Chatzistamatiou, A. Miliou, G. Moustakas, C. Antoniadis, I. Kallikazaros, D. Tousoulis (Athens, GR)
- 14:54 **Obese young adults exhibit early peripheral arterial remodelling but preserved conduit artery function.** 1951
– S.T. Chiesa, M. Charakida, A. Rapala, D.J. Bhowruth, H.C. Nguyen, F. Dangardt, G. Davey Smith, D.A. Lawlor, J.E. Deanfield (London and Bristol, UK; Gothenburg, SE)
- 15:03 **Mechanisms of vascular dysfunction induced by breast cancer neo-adjuvant chemotherapy in human blood vessels.** 1952
– P. Szczepaniak, M. Siedlinski, D. Hodorowicz-Zaniewska, R. Nosalski, J. Streb, K. Gara, P. Basta, J. Krolczyk, J. Sulicka, T.P. Mikolajczyk, T. Grodzicki, T.J. Guzik (Krakow, PL; Glasgow, UK)
- 15:12 **H2o2-loaded acoustic phase-change nanoparticles enhancing coronary micro-circulation thrombolysis: an in vitro study by low intensity focused ultrasound irradiation.** 1953
– N. Jiang, B. Hu, S. Cao, J.-J. Cui, Q. Zhou, R.-Q. Guo (Wuhan, CN)
- 15:21 **Adrenoceptor dysfunction in obese perivascular adipose tissue.** 1954
– S. Saxton, S.B. Withers, J. Ohanian, A.M. Heagerty (Manchester, UK)

14:00–15:30 | Agora 1 - Agora

CARDIOMYOPATHIES: UNDERSTANDING THE ENEMY

Rapid Fire Abstract

Chairperson(s): K. Huber (Vienna, AT); A.R. Lyon (London, UK)

- 14:00 **First Australian registry of patients with wild type cardiac amyloidosis (ATTRwt): Queensland experience.** 1955
– M. Burrage, D. Korczyk, P. Mollee (Brisbane, AU)
- 14:09 **Clinical characteristics of ST-elevation and non-ST-elevation types in patients with takotsubo syndrome -a multicenter registry in eight-university hospitals in East Japan.** 1956
– M. Yoshizawa, T. Itoh, Y. Morino, S. Taniyai, K. Ishibashi, T. Komatsu, J. Ako, H. Kyono, Y. Ikari, R. Kato, K. Matsumoto, M. Sakuma, H. Sugimura, Y. Akashi, H. Yoshino (Morioka, Tokyo, Kawasaki, Saitama, Kanagawa and Tochigi, JP)
- 14:18 **Myocardial bridging and left ventricular thrombus formation in patients with takotsubo cardiomyopathy.** 1957
– B. Schneider, A. Athanasiadis, J. Schwab, R. Schoeller, U. Sechtem, C. Stoellberger, U. Gottwald, B. Gerecke, C. Wegner (Lübeck, Stuttgart, Nuremberg, Berlin, Celle and Peine, DE; Vienna, AT)
- 14:27 **Risk factors for heart failure after doxorubicin chemotherapy for breast- or colorectal cancer.** 1958
– G. Fogarassy, A. Vathy-Fogarassy, L. Hornyak, T. Forster (Balatonfüred, Veszprem and Szeged, HU)
- 14:36 **Predictors of heart failure hospitalizations in hypertrophic cardiomyopathy.** 1959
– A. Cecconi, D. Villani, E. Pozo, P. Agudo-Quilez, E. Gonzalez-Bartol, A. Rojas-Gonzalez, G. Diego-Nieto, L.M. Garcia-Moreno, L. Dominguez-Arganda, S. Hernandez, M.J. Olivera, P. Caballero, J. Jimenez-Borreguero, F. Alfonso (Madrid, ES)
- 14:45 **Non-linear dynamics of heart rate variability independently predicts all-cause mortality of patients with Sarcoidosis.** 1960
– E. Gialafos, B. Kouranos, T.G. Papaioannou, E. Manali, S. Katsanos, L. Kolilekas, E. Tsoungkos, D. Tousoulis, S. Papiris, G. Filippatos (Athens, GR)
- 14:54 **Infliximab in cardiac sarcoidosis.** 1961
– R. Kandolin, J. Lehtonen (Helsinki, FI)
- 15:03 **Diagnostic score for the detection of cardiac amyloidosis in patients with left ventricular hypertrophy and impact on prognosis.** 1962
– E. Cariou, P. Fournier, G. Victor, D. Ribes, P. Pascal, S. Faguer, J. Roncalli, I. Berry, D. Carrie, M. Galinier, O. Lairez (Toulouse, FR)
- 15:21 **Takotsubo cardiomyopathy in the USA: clinical outcomes and readmissions in 2013.** 1963
– A.R. Tariq, A. Mantha, A.N. Sharma (Orange, US)



14:00–15:30 | Agora 2 - Agora

BIORESORBABLE VASCULAR SCAFFOLDS: STILL THE FUTURE OR ALREADY THE PAST? Rapid Fire Abstract

Chairperson(s): J. Qian (Shanghai, CN); C. Templin (Zurich, CH)

- 14:00 **Early and Late target lesion failure and thrombosis after implantation of coronary bioresorbable scaffolds: analysis of predictors and mechanisms.** 1964
– T. Gori, S. Gonner, F. Wendling, H. Ullrich, M. Weissner, R. Anadol, A. Polimeni, T. Munzel (Mainz, DE)
- 14:09 **Major coronary evaginations following implantation of bioresorbable vascular scaffolds: clinical and OCT characteristics.** 1965
– F. Blachutzik, S. Achenbach, M. Marwan, J. Roether, M. Troebbs, R. Schneider, M. Weissner, C. Schlundt (Erlangen and Mainz, DE)
- 14:18 **One-year clinical outcomes following bioresorbable vascular scaffold implantation in patients presenting with acute coronary syndromes versus stable coronary artery disease: results from RAI registry.** 1966
– E. Moscarella, A. Ielasi, A. Varricchio, B. Cortese, B. Loi, G. Steffenino (Naples, Seriate, Nola, Milan, Cagliari and Cuneo, IT)
- 14:27 **Bioresorbable vascular scaffolds versus metallic stents in patients with STsegment.** 1967
– T. Kofler, M. Bossard, F. Moccetti, S. Toggweiler, R. Jeger, C. Kaiser, R. Kozba, S. Cook, F. Cuculi (Basel, Luzern and Fribourg, CH; Portland, US)
- 14:36 **Quantitative angiographic analysis in patients with de novo native coronary artery lesions treated with novel poly-l-lactide based sirolimus-eluting bioresorbable vascular scaffold: MeRes-1 Trial.** 1968
– R. Costa, A. Seth, P. Chandra, V. Bhal, M. Nanjappa, P. Rath, M. Kalaricka, G. Wander, A. Mahajan, A. Kumaran, A. Koshy, P. Goel, V. Kumar, U. Kaul, V. Trehan (São Paulo, BR; New Delhi, Haryana, Bangalore, Hyderabad, Chennai, Ludhiana, Mumbai, Thiruvananthapuram and Lucknow, IN)
- 14:45 **Computed Tomography Coronary Angiography Long-term Results of Bioresorbable Vascular Scaffold in clinical practice. A BVS-Expand project.** 1969
– C.M. Felix, A. Coenen, M.M. Lubbers, Y. Onuma, J.M. Fam, R. Diletta, E. Regar, F. Zijlstra, H. El Addouli, K.N. Nieman, R.-J.M. Van Geuns (Rotterdam, NL; Singapore, SG; Zurich, CH)
- 14:54 **A randomized trial comparing a novel sirolimus-eluting bioresorbable scaffold with everolimus-eluting metallic stents in patients with coronary artery disease.** 1970
– Y.L. Han, B. Xu, G.S. Fu, X.Z. Wang, K. Xu, C.D. Guan, G.W. Stone (Shenyang, Beijing and Hangzhou, CN; New York, US)
- 15:03 **Late thrombotic events after bioresorbable scaffold implantation: a systematic review and meta-analysis of randomized clinical trials.** 1971
– C.A. Collet, T.A. Asano, Y.O. Onuma, Y.M. Miyazaki, E.T. Tenekecioglu, Y.K. Katagiri, S.B. Puricel, T.K. Kimura, R.G. Gao, R.J.W. De Winter, D.C. Capodanno, P.W.S. Serruys (Amsterdam and Rotterdam, NL; Fribourg, CH; Kyoto, JP; Beijing, CN; Catania, IT; London, UK)
- 15:12 **Incidence, clinical presentation, characteristics and analysis of predictors of restenosis in coronary bioresorbable scaffolds.** 1972
– M. Weissner, K. Schochlow, L. Lorenz, F. Wendling, S. Goenner, R. Anadol, A. Polimeni, T. Muenzel, T. Gori (Mainz, DE)
- 15:21 **Does the stent induced change in coronary geometry affect prognosis? Insights from 3-dimensional quantitative coronary angiographic analysis on the impact of vessel bending on coronary in-stent resten.** 1973
– B. Zhang, T.U. Shengxian (Xuzhou and Shanghai, CN)

14:00–15:30 | Dublin - Village 1

THE ROLE OF INFLAMMATION IN VASCULAR DISEASE

Symposium

Chairperson(s): K. Schroder (Frankfurt, DE); D. Tousoulis (Athens, GR)

- 14:00 **Innate immunity and acute coronary syndromes.** 1974
– P. Libby (Boston, US)
- 14:22 **Perivascular adipose tissue, inflammation and vascular disease.** 1975
– T.J. Guzik (Glasgow, UK)
- 14:45 **Neutrophils in thrombosis.** 1976
– S. Massberg (Munich, DE)
- 15:07 **The mechanisms of molecular calcification: from biology to imaging.** 1977
– K. Toutouzias (Athens, GR)

14:00–15:40 | Fira - Village 1

ESC WILLIAM HARVEY LECTURE ON BASIC SCIENCE		Named Lecture
Chairperson(s): J.D. Pearson (London, UK); L. Tokgozoglu (Ankara, TR)		
14:00	Presentation of the awardee. – J.D. Pearson (London, UK)	1978
14:05	PCSK9: a journey of discovery from genetics to clinical trials. – C. Boileau (Paris, FR)	1979
14:30	Diploma by chairpersons. – L. Tokgozoglu (Ankara, TR)	1980
YOUNG INVESTIGATOR AWARDS SESSION BASIC SCIENCE		Young Investigator Awards Abstracts
Chairperson(s): J.D. Pearson (London, UK); S. Dimmeler (Frankfurt, DE)		
Judge(s): D.J. Henderson (Newcastle-upon-Tyne, UK); K. Stellos (Frankfurt, DE); C. Perrino (Naples, IT)		
14:40	Loss of SRSF4 in cardiomyocytes induces hypertrophy, diastolic dysfunction and risk of sudden death. – J. Larrasa-Alonso, M. Villalba, F. Sanchez-Cabo, C. Marti-Gomez, P. Ortiz-Sanchez, M.M. Lopez-Olaneta, P. Garcia-Pavia, E. Lara-Pezzi (Madrid, ES)	1981
14:55	Molecular mechanisms of arrhythmia upon TBX5 loss. – F.R. Rathjens, A. Renger, M. Dewenter, K. Toischer, A. El-Armouche, W.H. Zimmermann, L.C. Zelarayan, M.P. Zafiriou (Göttingen, Heidelberg and Dresden, DE)	1982
15:10	Thrombin activatable fibrinolysis inhibitor promotes development of chronic thromboembolic pulmonary hypertension -A possible novel therapeutic target-. – T. Satoh, K. Satoh, N. Yaoita, M.E. Al-Mamun, M.A.H. Siddique, N. Kikuchi, J. Omura, R. Kurosawa, S. Sunamura, M. Nogi, T. Otsuki, S. Miyata, H. Shimokawa (Sendai, JP)	1983
15:25	Innate immune nod1/rip2 signaling is essential for cardiac hypertrophic response with a surprising critical interaction with mitochondrial danger activator. – H.B.C. Lin, K. Naito, A. Valaperti, F. Dawood, L. Zhang, G.H. Li, D. Smyth, M. Moon, Y. Liu, P.P. Liu (Ottawa and Toronto, CA; Yokohama, JP; Zurich, CH)	1984
<i>Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub</i>		

14:00–15:30 | Astana - Village 2



BLOOD PRESSURE AND THE BRAIN		Symposium
Chairperson(s): I.C. Van Gelder (Groningen, NL); A. Coca (Barcelona, ES)		
14:00	Hypertension and the risk of stroke - Mechanisms and data. – A.M. Chamorro Sanchez (Barcelona, ES)	1985
14:22	Hypertension management in acute stroke (ischaemic and hemorrhagic). – R.E. Schmieder (Erlangen, DE)	1986
14:45	Post-stroke management of hypertension. – E.V. Shlyakhto (St. Petersburg, RU)	1987
15:07	Hypertension, dementia and cognitive decline. – S. Oparil (Birmingham, US)	1988

14:00–15:30 | Pristina - Village 2

TREATMENT OF TYPE 2 DIABETES – IMPORTANT NEW ASPECTS FOR THE CARDIOLOGIST		Symposium
Joint with the European Association for the Study of Diabetes		
Chairperson(s): N. Marx (Aachen, DE); L. Ryden (Stockholm, SE)		
14:00	Treatment aims of glucose lowering drugs in patients with type 2 diabetes. – L. Ryden (Stockholm, SE)	1989
14:22	Liraglutide and empagliflozin – An evaluation of benefits. – T.A. Schmidt (Holbæk, DK)	1990
14:45	Rethinking the appraisal and approval of drugs for type 2 diabetes. – A. Tsapas (Thessaloniki, GR)	1991
15:07	Is type 2 diabetes a category error - How about treating the elderly? – G.-H. Schemthaner (Vienna, AT)	1992

14:00–15:30 | Beirut - Village 3

ECHO FOR CARDIAC FUNCTION: BREAD AND BUTTER FOR THE CLINICIAN

Symposium

Chairperson(s): O.A. Smiseth (Oslo, NO); E. Donal (Rennes, FR)

- 14:00 **Traditional 2D echo: how to do it right.** 1993
– J.D. Kasprzak (Lodz, PL)
- 14:22 **Tissue Doppler, strain and strain rate: less difficult and more useful than you may think.** 1994
– O.A.B. Breithardt (Kassel, DE)
- 14:45 **Assessment of left atrial size and function.** 1995
– R.S. Von Bardeleben (Mainz, DE)
- 15:07 **3D echo for all!** 1996
– B. Cosyns (Brussels, BE)

14:00–15:30 | Riga - Village 3

 Ask a Question

AT THE INTERFACE OF IMAGING AND SURGERY: RECENT INSIGHTS INTO VALVULAR REGURGITATION

Advances in Science

Chairperson(s): W.A. Zoghbi (Houston, US); A. Badawi (New Cairo City, EG)

- 14:00 **State of the Art: clinical management of valvular regurgitation.** 1997
– T. Feldman (Evanston, US)
- 14:18 **Long-term hemodynamic improvement after percutaneous mitral valve repair in the noninvasive pressure-volume analysis.** 1998
– D. Lavall, M. Mehrer, S.H. Schirmer, J.C. Reil, M. Böhm, U. Laufs (Homburg and Lübeck, DE)
- 14:36 **Three-dimensional transesophageal echocardiography in mitral valve repair and replacement.** 1999
– V.S. Dzhanketova, E.Z. Golukhova, T.V. Mashina, G.A. Shamsiev, D.V. Mrikaev (Moscow, RU)
- 14:54 **Determinants of progression from none and mild to moderate and severe native tricuspid regurgitation: results from a large-scale echocardiographic study.** 2000
– E.A. Piriadi, P. Van Der Bijl, E. Gursoy, R. Abou, E.M. Vollema, R.T. Hahn, G.W. Stone, M.B. Leon, N. Ajmone Marsan, V. Delgado, J.J. Bax (Leiden, NL; New York, US)
- 15:12 **Echo imaging of valvular regurgitation.** 2001
– D. Playford (Fremantle, AU)

14:00–15:30 | Chisinau - Village 4

 Ask a Question

AIR POLLUTION AND HEART DISEASE

Symposium

Chairperson(s): V. Vassiliou (London, UK); E. Mirrakhimov (Bishkek, KG)

- 14:00 **The impact of air pollution on cardiovascular health: a global view.** 2002
– D.E. Newby (Edinburgh, UK)
- 14:22 **Prenatal exposure to air pollution and cardiovascular risk for adults.** 2003
– J. Stingone (New York, US)
- 14:45 **Mechanisms that link air pollution to coronary artery disease and stroke.** 2004
– T. Munzel (Mainz, DE)
- 15:07 **Air pollution and cardiac arrhythmia.** 2005
– J. Schwartz (Boston, US)

14:00–15:30 | Vilnius - Village 4

UNRAVELLING THE MYSTERIES OF ENDURANCE TRAINING

Symposium

Chairperson(s): H.K. Rasmussen (Copenhagen, DK); M. Wilhelm (Bern, CH)

- 14:00 **The impact of endurance training on the athlete's ECG: should we redefine our criteria?** 2006
– A. La Gerche (Melbourne, AU)
- 14:22 **Late gadolinium enhancement and intense training: coincidence or a relevant marker of heart disease?** 2007
– D. Corrado (Padua, IT)
- 14:45 **Revascularised coronary artery disease in endurance athletes. When is it safe to run?** 2008
– M. Borjesson (Vastra Frolunda, SE)
- 15:07 **Managing acute events in endurance athletes: 10 years of experience at the London Marathon.** 2009
– S. Sharma (London, UK)

14:00–15:30 | Skopje - Village 5


CATHETER ABLATION OF VENTRICULAR TACHYCARDIA

Symposium

Chairperson(s): J. Atie (Rio de Janeiro, BR); B. Dinov (Leipzig, DE)

- 14:00 **VT ablation in structurally normal hearts: first line therapy?** 2010
– H. Calkins (Baltimore, US)
- 14:22 **VT ablation in ischaemic cardiomyopathy: early or late? Do we influence mortality?** 2011
– S. Willems (Hamburg, DE)
- 14:45 **Complications of VT ablation: incidence, risk factors and management.** 2012
– S. Ernst (London, UK)
- 15:07 **Panel discussion: catheter ablation of ventricular tachycardia.** 2013

14:00–15:40 | Valetta - Village 5

 Ask a Question

ESC RENE LAENNEC LECTURE ON CLINICAL CARDIOLOGY

Named Lecture

Chairperson(s): R. Ferrari (Ferrara, IT); F.J. Pinto (Lisbon, PT)

- 14:00 **Presentation of the awardee.** 2014
– F.J. Pinto (Lisbon, PT)
- 14:05 **Adipose tissue and myocardial ageing.** 2015
– G.A. Derumeaux (Créteil, FR)
- 14:30 **Diploma by the chairpersons.** 2016
– F.J. Pinto (Lisbon, PT)

 Ask a Question

YOUNG INVESTIGATOR AWARDS SESSION CLINICAL SCIENCE

Young Investigator Awards Abstracts

Chairperson(s): R.H. Strasser (Dresden, DE); M.T. Tavares Aguiar (Lisbon, PT)

Judge(s): D. Fitzsimons (Belfast, UK); L.M. Goncalves (Coimbra, PT); G.A. Derumeaux (Créteil, FR); G. Nasr (Cairo, EG)

- 14:40 **Scar transmural and composition derived from LGE MRI predicts VT in post-infarct patients.** 2017
– A.F.A. Androulakis, K. Zeppenfeld, E.H.M. Paiman, J. Venlet, C.A. Glashan, M.J. Schalij, R.J. Van Der Geest, Q. Tao (Leiden, NL)
- 14:55 **Optical coherence tomographic analysis of in-scaffold atherosclerosis after bioresorbable vascular scaffold implantation at five year follow up.** 2018
– N. Moriyama, K. Shishido, T. Takuma, K. Tobita, S. Tsukuda, F. Yamanaka, S. Mizuno, Y. Tanaka, M. Murakami, J. Matsumi, S. Takahashi, S. Saito (Kamakura, JP)
- 15:10 **Left ventricular involvement and circumstances of death in arrhythmogenic cardiomyopathy: insights from a large pathology study.** 2019
– C.J. Miles, J.D. Westaby, G. Finocchiaro, M. Papadakis, C. Paterson, M. Tome, S. Sharma, E.R. Behr, M.N. Sheppard (London, UK)
- 15:25 **The spectrum of cardiovascular disease after early stage breast cancer: a population-based cohort study.** 2020
– H. Abdel-Qadir, P. Thavendiranathan, P.C. Austin, D.S. Lee, E. Amir, J.V. Tu, H. Ma, K. Fung, G.M. Anderson (Toronto, CA)

Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub

14:00–15:30 | Bishkek - Village 6

ETIOLOGIC APPROACH TO STROKE PREVENTION AND TREATMENT
Joint with the European Stroke Organisation

Symposium

Chairperson(s): P. Widimsky (Prague, CZ); M. Rubiera (Barcelona, ES)

- 14:00 **Non-cardiac causes of ischaemic stroke.** 2021
– H.B. van der Worp (Utrecht, NL)
- 14:18 **Cardiac causes of ischaemic stroke.** 2022
– W. Doehner (Berlin, DE)
- 14:36 **Pharmacologic stroke prevention tailored by stroke etiology.** 2023
– H.C. Diener (Essen, DE)
- 14:54 **Endovascular treatment of ischaemic stroke.** 2024
– M. Mazighi (Paris, FR)
- 15:12 **Stroke prevention by carotid intervention: the current evidence.** 2025
– A. Halliday (Oxford, UK)

14:00–15:30 | Luxembourg - Village 6

 Ask a Question

CORONARY REVASCULARISATION: WHAT IS NEXT?

Symposium

Chairperson(s): C. Grines (Manhasset, US); P. Kala (Brno, CZ)

- 14:00 **Intracoronary imaging and functional diagnosis.** 2026
– W. Wijns (Brussels, BE)
- 14:22 **Future stent technology.** 2027
– A. Abizaid (São Paulo, BR)
- 14:45 **Innovations in coronary surgery.** 2028
– T. Doenst (Jena, DE)
- 15:07 **Myocardial preservation in STEMI: beyond primary PCI.** 2029
– A. Mathur (London, UK)

14:00–15:40 | Podgorica - Village 6



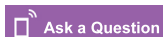
ESC ANDREAS GRÜNTZIG LECTURE ON INTERVENTIONAL CARDIOLOGY		Named Lecture
Chairperson(s): S.C. Clarke (Cambridge, UK); S. Windecker (Bern, CH)		
14:00	Presentation of the awardee. – R. Mehran (New York, US)	2030
14:05	The revolution in the treatment of patients with aortic stenosis. – M.C. Morice (Massy, FR)	2031
14:30	Diploma by the chairpersons. – S. Windecker (Bern, CH)	2032



YOUNG INVESTIGATOR AWARDS SESSION PERCUTANEOUS CORONARY INTERVENTION		Young Investigator Awards Abstracts
Chairperson(s): M. Gilard (Brest, FR); M. Haude (Neuss, DE)		
Judge(s): A. Erglis (Riga, LV); S.C. Clarke (Cambridge, UK); V. Kunadian (Newcastle-upon-Tyne, UK)		
14:40	Incidence and predictors of stroke after percutaneous coronary intervention in the era of transradial intervention. – S. Shoji, S. Kohsaka, I. Ueda, M. Sawano, N. Ikemura, T. Katsuki, T. Hiraide, Y. Maekawa, S. Yuasa, K. Hayashida, S. Noma, M. Suzuki, Y. Numasawa, H. Miyata, K. Fukuda (Tokyo, Tochigi and Saitama, JP)	2033
14:55	Angiography versus hemodynamic assessment to predict the natural history of coronary stenoses: a fractional flow reserve versus angiography in multivessel evaluation 2 (FAME 2) substudy. – G. Ciccarelli, E. Barbato, G. Toth, M. Pellicano, P. Xaplanteris, A. Milkas, S. Fournier, B. De Bruyne (Aalst, BE; Graz, AT)	2034
15:10	Mid- and long-term outcome of the EXPLORE trial: investigating the impact of CTO PCI versus no-CTO PCI in STEMI patients with a concurrent CTO. – J. Elias, I.M. Van Dongen, L.P.C. Hoebers, T. Ramunddal, P. Laanmets, E. Eriksen, B.E.P.M. Claessen, A. Hirsch, J.G. Tijssen, R.J. Van Der Schaaf, J.P.S. Henriques (Amsterdam, NL; Gothenburg, SE; Tallinn, EE; Bergen, NO)	2035
15:25	Optical coherence tomography plus angiography versus angiography alone to guide percutaneous coronary intervention: outcomes from the Pan-London PCI Cohort. – D.A. Jones, K.S. Rathod, S. Koganti, E.J. Smith, A. Wragg, C.J. Knight, A. Mathur, C. Bourantas (London, UK)	2036

Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub

14:00–15:30 | Oslo - Village 7



PULMONARY HYPERTENSION – WHICH GROUP, WHICH THERAPY?		Symposium
Chairperson(s): N. Galie (Bologna, IT); M. Humbert (Le Kremlin-Bicêtre, FR)		
14:00	Right heart catheterisation 101: is it pulmonary hypertension due to left heart disease - Or is it pulmonary arterial hypertension? – O. Ben-Yehuda (New York, US)	2037
14:22	Pulmonary hypertension - When can drugs help (and when can they not)? – J.S.R. Gibbs (London, UK)	2038
14:45	Is it acute pulmonary embolism or decompensation of chronic thromboembolic disease? – O. Sanchez (Paris, FR)	2039
15:07	Panel discussion: pulmonary hypertension - Which group, which therapy?	2040

14:00–15:30 | Rabat - Village 7

SEVERE AORTIC STENOSIS IN INTERMEDIATE-RISK PATIENTS		Symposium
Joint with the Argentine Society of Cardiology		
Chairperson(s): M. Gonzalez (Buenos Aires, AR); M. Komajda (Paris, FR)		
14:00	“Intermediate-risk” in aortic stenosis, what does it mean? – R. Migliore (San Martin, AR)	2041
14:22	Risk stratification of patients with aortic stenosis in the new ESC Guidelines. – O. Wendler (London, UK)	2042
14:45	The case for surgery in intermediate-risk patients with aortic stenosis. – C. Nojek (Buenos Aires, AR)	2043
15:07	Emerging evidence for TAVI in intermediate- and low-risk populations. – D. Tchetché (Toulouse, FR)	2044

14:00–15:30 | Bucharest - Village 8

CARDIAC ARREST 2017

Joint with the European Resuscitation Council

Chairperson(s): N. Nikolaou (Athens, GR); U. Zeymer (Ludwigshafen, DE)

- | | | |
|-------|---|------|
| 14:00 | Value of troponin measurement after out of hospital cardiac arrest - relevance for management and prognosis. | 2045 |
| | – P. Van der Harst (Groningen, NL) | |
| 14:22 | Cardiac arrest in the cath lab. | 2046 |
| | – F. Beygui (Caen, FR) | |
| 14:45 | ECMO-assisted CPR. For whom? when? where? | 2047 |
| | – M.J. Schalij (Voorschoten, NL) | |
| 15:07 | Management of the post-cardiac arrest syndrome. | 2048 |
| | – C. Hassager (Copenhagen, DK) | |



Symposium

14:00–15:00 | Tripoli - Village 8

YOUNG INVESTIGATOR AWARDS SESSION THROMBOSIS

Young Investigator Awards Abstracts

Chairperson(s): B. Rocca (Rome, IT); J.M. Siller-Matula (Vienna, AT)

Judge(s): G. Vilahur Garcia (Barcelona, ES); A. Cohen (Paris, FR); A. Rubboli (Bologna, IT)

Standard and reduced doses of dabigatran, rivaroxaban, and apixaban for stroke prevention in atrial fibrillation: a nationwide cohort study. 2049

– L. Staerk, T.A.G. Gerdts, G.Y.H.L. Lip, B.O. Ozenne, A.N.B. Bonde, M.L. Lamberts, E.L.F. Fosbol, C.T.P. Torp-Pedersen, G.G. Gislason, J.B.O. Olesen (Hellerup, Copenhagen and Aalborg, DK; Birmingham, UK)

Impact on clinical outcome of on-treatment platelet reactivity according to concordant platelet function tests: the multi-test platelet function study. 2050

– P. Guedeney, C. Pellaton, J.S. Hulot, M. Kerneis, J. Silvain, O. Barthelemy, D. Brugier, E. Eekhout, A. Diallo, E. Vicaut, G. Montalescot, J.P. Collet (Paris, FR; Lausanne, CH)

A meta-analysis of INR targets for mechanical heart valves: we need new evidence. 2051

– S. Gupta, E. Bellef-Cote, A. Sarkaria, A. Pandey, G. McClure, I. Jaffer, J. Spence, K. An, P. Panchal, K. Devereaux, J. Willingstorfer, J. Eikelboom, R. Whitlock (Hamilton and Kingston, CA; Würzburg, DE)

Thrombin Exosite 1 Inhibition with JNJ-375 Inhibits Fibrin-Rich Thrombus Formation in a Human Translational Model of Thrombosis. 2052

– S. Wilson, T.M. Connolly, G. Peters, A. Gosh, M. Johnson, D.E. Newby (Edinburgh, UK; Spring House and Raritan, US)

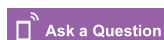
Winners will be announced at the Awards Ceremony on Monday 28 August at 18:00 in the Hub

14:00–15:30 | Lisbon - Village 9

ADVANCED HEART FAILURE: WHEN DRUGS ALONE ARE NOT ENOUGH

Chairperson(s): G. Hasenfuss (Göttingen, DE); A. Stromberg (Linköping, SE)

- | | | |
|-------|--|------|
| 14:00 | Advanced heart failure: diagnosis and risk stratification. | 2053 |
| | – J.E. Udelson (Boston, US) | |
| 14:22 | Short-term mechanical support: how, for whom and when. | 2054 |
| | – L.H. Lund (Stockholm, SE) | |
| 14:45 | When and how to select for long-term mechanical support? | 2055 |
| | – J. Stehlik (Salt Lake City, US) | |
| 15:07 | Selection criteria for transplantation and destination therapy. | 2056 |
| | – M. Mehra (Boston, US) | |



Symposium

14:00–15:30 | Warsaw - Village 9

HEART FAILURE WITH MID-RANGE AND PRESERVED EJECTION FRACTION

Advances in Science

Chairperson(s): B. Pieske (Berlin, DE); E.B. Vataman (Chişinău, MD)

- | | | |
|-------|--|------|
| 14:00 | State of the Art: HFmrEF - The new middle child. | 2057 |
| | – R.A. De Boer (Groningen, NL) | |
| 14:18 | Patterns and prognostic role of N-terminal pro-B-type Natriuretic Peptide in heart failure with mid-range vs. preserved vs. reduced ejection fraction. | 2058 |
| | – G. Savarese, N. Orsini, C. Hage, U. Dahlstrom, G. Rosano, L. Lund (Stockholm and Linköping, SE; London, UK) | |
| 14:36 | Prognostic relevance of the 40% left ventricular ejection fraction cut-off in chronic systolic heart failure. | 2059 |
| | – A. Aimo, G. Vergaro, A. Barison, V. Chubuchny, V. Siciliano, C. Passino, M. Emdin (Pisa, IT) | |
| 14:54 | Prognostic relevance of preclinical diastolic dysfunction across left ventricular ejection fraction categories. The DAVID-Berg study. | 2060 |
| | – M. Gori, A. Calabrese, P. Canova, G. Cioffi, R. De Maria, A. Grosu, A. Iacovoni, A. Fontana, P. Ferrari, G. Parati, A. Gavazzi, M. Senni (Bergamo, Milan and Trento, IT) | |
| 15:12 | Should we abandon EF to stratify heart failure treatment? | 2061 |
| | – S. Solomon (Boston, US) | |

15:30–17:00 | ESC TV Stage - ESC Plaza

Today on ESC TV



A TRIBUTE TO ANDREAS GRÜNTZIG

Special Session

Chairperson(s): V. Fuster (New York, US); M. Kaltenbach (Dreieich-Buchschlag, DE); T.F. Luscher (Zurich, CH)

15:30	Andreas Grüntzig - the Innovator - and his first patient. – B. Meier (Bern, CH)	2062
15:52	Andreas Grüntzig - the Clinician - and the Heart Team. – M. Turina (Zurich, CH)	2063
16:15	Andreas Grüntzig - the Pioneer - and his success in the US. – S. King III (Atlanta, US)	2064
16:37	Andreas Grüntzig: The Interventional Cardiologist - and his continued influence on the future of cardiovascular care. – S. Windecker (Bern, CH)	2065

Late-Breaking Science Posters (see page 106) are on display from 08:30 to 18:00.
From 15:35 to 16:25 Trialists Presenters will summarise their research and address questions from the Chairpersons and Audience.

Moderated Posters are on display from 14:00 to 18:00 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (15:35–16:25), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

15:35–16:25 | Moderated poster station - Poster Area



LONG-TERM OUTCOMES IN CHALLENGING SUBJECTS

Moderated Posters

Chairperson(s): C. Naber (Essen, DE); E. Nikolsky (Haifa, IL)

	SCAAR: New generation drug eluting stents are associated with lower stent thrombosis risk in patients with impaired and normal renal function.	P2066
	– R.E. Edfors, S.J. James, K.S. Szummer, M.E. Evans, J.J. Carrero, J.S. Spaak, C.V. Varenhorst, T.J. Jernberg, B.L. Lagerqvist (Stockholm and Uppsala, SE)	
	The benefit of complete revascularization in left main percutaneous coronary intervention.	P2067
	– K. Leemasawat, M. Terashima, Y. Kinoshita, T. Suzuki (Chiang Mai, TH; Toyohashi, JP)	
	Incidence, determinant and temporal impact of definite stent thrombosis on mortality in women: from the WIN-DES collaborative patient-level pooled analysis.	P2068
	– L.S.M. Kerckmeijer, B.E.M. Claessen, U. Baber, S. Sartori, G.G. Stefanini, G.W. Stone, P.G. Steg, A. Chieffo, G. Weisz, S. Windecker, G.W. Mikhail, A. Kastrati, M.C. Morice, R.J. De Winter, R. Mehran (Amsterdam, NL; New York, US; Rozzano and Milan, IT; Paris, FR; Bern, CH; London, UK; Munich, DE)	
	Multivessel PCI versus culprit-vessel only PCI in patients with acute myocardial infarction and multivessel disease.	P2069
	– B. Vogel, U. Baber, J. Chandrasekhar, S. Sartori, S. Farhan, S. Sorrentino, J. Kovacic, P. Moreno, N. Barman, J. Sweeny, S. Shah, G. Dangas, R. Mehran, A. Kini, S. Sharma (New York, US)	
	Three-year clinical outcomes of the bvs expand registry.	P2070
	– C.M. Felix, J.M. Fam, R. Diletti, Y. Ishibashi, A. Karanasos, B.R.C. Everaert, N.M. Van Mieghem, J. Daemen, F. Zijlstra, E.S. Regar, Y. Onuma, R.J.M. Van Geuns (Rotterdam, NL)	
	Single- vs two- stenting technique with second generation drug eluting stent for unprotected left main coronary bifurcation disease: insights from FAILS-2 study.	P2071
	– M. Pavani, F. Conrotto, A. Chieffo, H. Kawamoto, F. D'Ascenzo, E. Cerrato, I. Nunez-Gil, M. Pennone, F. Tomassini, R. Garbo, F. Varbella, C. Moretti, A. Colombo, F. Gaita, J. Escaned (Turin, Milan and Rivoli, IT; Madrid, ES)	
	Independent predictors of the recurrent restenosis after paclitaxel-coated balloon angioplasty for in-stent restenosis.	P2072
	– H. Koiwaya, N. Watanabe, N. Kuriyama, S. Nishino, K. Ogata, T. Nakama, H. Matsuura, M. Furugen, Y. Shibata (Miyazaki, JP)	

15:35–16:25 | Moderated poster station - Poster Area

DIASTOLIC FUNCTION AND LEFT ATRIAL FUNCTION

Moderated Posters

Chairperson(s): F. Flachskampf (Uppsala, SE); O.A. Smiseth (Oslo, NO)

The outcome of applying the 2016 ASE/EACVI guidelines for the evaluation of left ventricular diastolic function to 50,000 echocardiograms. P2073

– J. Morton (Adelaide, AU)

Association between left ventricular diastolic function, pulmonary function and cardiovascular events in the general population. P2074

– D. Andersen, J.S. Jensen, R. Mogelvang, P. Lange, N. Seersholm, T. Biering-Sorensen (Copenhagen, DK)

Late diastolic longitudinal strain rate: a powerful easy marker for non viable myocardium. P2075

– P. P Selwanos, M. Ali Soliman, M. Beshay Mena, A. Samaan, M. Rayan (Aswan, Menofiya and Cairo, EG)

Left atrial stiffness is a robust predictor of the elevated NT-proBNP levels in systemic sclerosis patients with preserved left ventricular ejection fraction. P2076

– A. Porpaczy, A.B. Nogradi, N. Varga, T. Minier, L. Czirikak, A. Komocsi, R. Faludi (Pécs, HU)

Left atrial strain by 2D speckle tracking echocardiography in chronic kidney disease and association with 5 year outcomes. P2077

– G. Gan, K.K. Kadappu, L. Cai, K. Byth, S. Eshoo, L. Thomas (Sydney, AU)

Left atrial function predicts new-onset atrial fibrillation after aortic valve replacement independently from atrial enlargement. P2078

– G. Pessoa Amorim, J. Mancio, M. Barros, L. Vouga, J. Ribeiro, V. Gama Ribeiro, N. Bettencourt, R. Fontes Carvalho (Vila Nova de Gaia and Porto, PT)

Left atrial function and mortality in the elderly. P2079

– J. Koslowsky, D. Gilon, J. Stessman, J. Jacobs, D. Leibowitz (Jerusalem, IL)

15:35–16:25 | Moderated poster station - Poster Area

MECHANICAL CIRCULATORY SUPPORT AND HEART TRANSPLANTATION

Moderated Posters

Chairperson(s): A. Ruhparwar (Heidelberg, DE); M. Cikes (Zagreb, HR)

Cardiopulmonary, vascular and biomarker responses to acute hypoxic stress following cardiac transplantation. P2080

– M. Sanz, N. Iannino, V. Finnerty, F. Harel, A. Mansour, M. Gayda, D. Chaar, M. Sirois, N. Racine, M. White (Barcelona, ES; Montreal, CA)

Late diastolic radial motion is the main determinant of right ventricular filling in heart transplant recipients. P2081

– B.K. Lakatos, Z. Toser, M. Tokodi, A. Assabiny, B. Sax, A. Kosztin, B. Merkely, A. Kovacs (Budapest, HU)

Investigation of tacrolimus metabolism through CYP3A enzymes after cardiac transplantation. P2082

– Z. Pap, B. Sax, A. Assabiny, K. Racz, E. Nemeth, A. Kiraly, D. Becker, K. Monostory, B. Merkely (Budapest, HU)

Cardiac allograft vasculopathy: new perspective in diagnostic workout. P2083

– M. Cottini, V. Buffa, V. Polizzi, F. Sbaraglia, G. Di Stefano, M. Lo Presti, A. Pergolini, F. Ranocchi, A. Montalto, R. Gherli, E. Ferretti, P.G. Pino, P.L. Della Monica, F. Musumeci (Rome, IT)

Multi-layer longitudinal strain for noninvasive diagnosis of coronary allograft vasculopathy in heart transplant recipients: a comparative study ultrasound versus angiography. P2084

– N. Bonnet, M. Kerneis, S. Ouldamar, F. Huang, F. Laveau, R. Isnard, P. Leprince, J.-P. Collet, S. Varnous, N. Hammoudi (Paris, FR)

Osteoporosis in Heart Transplant: association with pre-transplant hospitalization time. P2085

– L.F.B.C. Seguro, L.P.C. Seguro, F.G. Marcondes-Braga, V.P. Caparbo, L. Takayama, S. Mangini, M.S. Avila, I. Wozniak, F.A. Gaiotto, R.M. Pereira, F. Bacal (São Paulo, BR)

Permanent pacing after heart transplantation: factors associated with its need. P2086

– K. Lefflerova, V. Melenovsky, J. Pirk, E. Pokorna, K. Sedlacek, J. Kautzner (Prague, CZ)

15:35–16:25 | Moderated poster station - Poster Area

DIABETES MELLITUS: FROM “OMICS TO COMPLICATIONS”

Moderated Posters

Chairperson(s): J.E. Roeters van Lennep (Rotterdam, NL); E.J.G. Sijbrands (Rotterdam, NL)

Use of insulin providers versus insulin sensitizers and risk of out-of-hospital cardiac arrest - a nationwide case-time-control study. P2087

– G.H. Mohr, K.B. Sondergaard, J.L. Pallisgaard, P. Weeke, A.K.G. Jensen, S. Rajan, F.K. Lippert, C. Torp-Pedersen, T. Viltsboell, G. Gislasen (Gentofte, Copenhagen and Aalborg, DK)

Once daily low-dose aspirin reduces urinary thromboxane B2 effectively even at 12-24 hours from dosing in the ASCEND (A Study of Cardiovascular Events in Diabetes) trial. P2088

– T. Aung, G.A.N. Buck, S. Parish, L. Bowman, J. Armitage (Oxford, UK)

Detailed description of myocardial infarctions and the various subtypes in the LEADER trial. P2089

– M.A. Nauck, J.B. Buse, T. Monk-Hansen, S. Rasmussen, M.B. Treppendahl, S.P. Marso (Bochum, DE; Chapel Hill and Kansas City, US; Søborg, DK)

Diabetes risk assessment of cardiovascular free individuals, through the calculation and evaluation of a lifestyle index; results of the 10-year follow up of the ATTICA study. P2090

– E. Koloverou, D.B. Panagiotakos, C. Chrysohoou, E. Georgousopoulou, D. Tousoulis, C. Pitsavos, C. Stefanadis (Athens, GR)

Genome-wide DNA methylation analysis for type 2 diabetes mellitus and cardiovascular disease: from a 23-Year follow-up in the Da Qing Diabetes Prevention Study. P2091

– X. Dong, Y.Y. Chen, G.W. Li (Beijing, CN)

Association of subclinical atherosclerosis with telomere length and glycemic variability. P2092

– E.N. Dudinskaya, N.V. Brailova, O.N. Tkacheva, I.D. Strazhesko, S.A. Boytsov, M.V. Shestakova (Moscow, RU)

Effects of aliskiren on mortality, cardiovascular outcomes and adverse events in diabetics with cardiovascular disease or risk: a systematic review and meta-analysis of 13,395 patients. P2093

– S.L. Zheng, A. Roddick, S. Ayis (London, UK)

15:35–16:25 | Moderated poster station - Poster Area

REGULATION AND CARDIAC METABOLISM

Moderated Posters

Chairperson(s): J.L. Balligand (Brussels, BE); C. Maack (Homburg, DE)

The AP-1 member JunD drives cardiac steatosis via transcriptional activation of peroxisome proliferator-activated receptor gamma: insights into obesity cardiomyopathy. P2094

– S. Costantino, A. Akhmedov, W. Wijnen, G.G. Camici, T.F. Luscher, F. Paneni (Schlieren and Zurich, CH)

SIRT4 regulates fatty acid utilisation and cardiac function in the normal and diabetic heart. P2095

– M.E. Hoelscher, C. Koentges, C. Muesse, S. Birkle, M.M. Hoffmann, C. Bode, H. Bugger (Freiburg, DE)

The pathological role of coagulation factors in promoting brown adipose tissue dysfunction and systemic metabolic disorder in obesity. P2096

– Y. Hayashi, I. Shimizu, Y. Yoshida, R. Ikegami, G. Katsuomi, M. Suda, H. Kayamori, T. Minamino (Niigata, JP)

Angiotensin II downregulates microRNA-145 to regulate disabled-2 (Dab2) and wnt/beta-catenin expression in cardiac myocytes under high glucose conditions. P2097

– K.G. Shyu, B.W. Wang (Taipei, TW)

Caloric restriction attenuates cardiomyopathy in diabetic mice through the the activation of the “SIRT-1, PGC-1 alpha, HO-1 axis” and PARP-1 inhibition. P2098

– M. Waldman, K. Cohen, D. Gorfil, M. Laniado-Schwartzman, K. Kornwoski, N.G. Abraham, M. Arad, E. Hochhauser (Petah Tikva and Ramat Gan, IL; Valhalla, US)

Adipocyte-derived adrenomedullin suppresses age- and obesity-related increase in blood pressure. P2099

– T. Minami, K. Cho, T. Nishikimi, Y. Nakagawa, K. Nakao, K. Kuwahara, K. Koike, T. Kimura (Kyoto, JP)

Bnip3 Displaces Uncoupling Protein3 (UCP3) from cytochrome C oxidase of respiration chain complex IV promoting maladaptive autophagy and necrotic cell death in doxorubicin cardiotoxicity. P2100

– L.A. Kirshenbaum, V. Margulets, R. Dhingra, M. Guberman, B. Lieberman (Winnipeg, CA)

15:35–16:25 | Moderated poster station - Poster Area

NOVEL INSIGHTS IN CONGENITAL HEART DISEASE

Moderated Posters

Chairperson(s): H. Mohamed Attia (Cairo, EG); L. Swan (London, UK)

- Survival and causes of death in adults with congenital heart disease: impact of gender and ageing.** P2101
 – A. Alonso-Garcia, J.M. Oliver, D. Garcia-Hamilton, P. Gallego, P. Avila, A. Gonzalez-Garcia, J. Ruiz-Cantador, F. Samago, R. Peinado, R. Prieto, R. Yotti, F. Fernandez-Aviles (Madrid and Seville, ES)
- QRS complex in adults with systemic right ventricles: signs of poor prognosis.** P2102
 – A.C. Van Dissel, M.M. Winter, T. Van Der Bom, H.W. Vliegen, A.P.J. Van Dijk, J.W. Roos-Hesselink, P.G. Pieper, G.T. Sieswerda, B.J.M. Mulder, B.J. Bouma (Amsterdam, Leiden, Nijmegen, Rotterdam, Groningen and Utrecht, NL)
- A multi-biomarker model identifies patients with PAH-CHD at highest risk for mortality.** P2103
 – A.C. Van Dissel, I.M. Blok, A.H. Zwinderman, A.P.J. Van Dijk, A.L. Duijnhouwer, B.J.M. Mulder, B.J. Bouma (Amsterdam and Nijmegen, NL)
- Missed appointments for outpatient visits as predictors for care gaps in adults with congenital heart disease.** P2104
 – E. Goossens, K. Van Deyk, W. Budts, P. Moons (Leuven, BE)
- Characteristics and outcome of congenital left ventricular aneurysm and diverticulum: analysis of 809 cases published since 1816.** P2105
 – M. Ohlow, B. Lauer (Bad Berka, DE)
- Prevalence of ventricular septal defects in 7.000 newborns estimated by systematic echocardiographic screening.** P2106
 – C. Pihl, A. Sillesen, K. Juul, F.S. Joergensen, D.L. Jeppesen, C. Kruse, H.J. Zingenberg, K. Sundberg, J.B. Norsk, L. Soendergaard, H. Boyd, N. Vejstrup, H. Bundgaard, A. Axelsson, K. Iversen (Copenhagen, DK)
- Bicuspid aortic valve with concomitant left sided obstructive lesions, results from a nationwide multicenter registry for children (REVAB).** P2107
 – A. Sabate Rotes, C. Juzga, A. Ayerza Casas, L. Jimenez Montanes, S. Escriba Bori, M.A. Gonzalez Marin, M. Sorli, M. Rodriguez, O. Dominguez Garcia, S. Rellan, M. Portillo Marquez, L. Albert, R.F. Alvarez Perez, M. Figueras Coll, S. Teodoro (Barcelona, Zaragoza, Palma de Mallorca, Ciudad Real, Cartagena, Madrid, Toledo, Valladolid, Badajoz, Girona and Sabadell, ES)

15:35–16:25 | Moderated poster station - Poster Area

HYPERTENSION PATHOPHYSIOLOGY

Moderated Posters

Chairperson(s): R. Cifkova (Prague, CZ); P. van de Borne (Brussels, BE)

- Effects of white coat hypertension on heart rate recovery and blood pressure response during exercise testing.** P2108
 – J.H. Heo, K.Y. Cho, B.J. Kim, S.I. Im (Busan, KR)
- Peculiarities of haemostasis in different types of 24 hours day's profile of blood pressure in hypertensive patients.** P2109
 – V. Pasko (Kiev, UA)
- Aortic diameters and mild functional aortic regurgitation in hypertensive and normal subjects.** P2110
 – O. Vriz, N. Bertin, L. Mos, D. Galzerano, E. Bossone, P. Palatini (San Daniele del Friuli, Salerno and Padua, IT; Riyadh, SA)
- Age and gender related differences in invasive central pulsatile hemodynamics versus. non-invasive brachial pressures in a large arab population.** P2111
 – A. Mahmud, M. Balghaith, K. Ayoub, F. Khan, M. Sameer, B. Thanoon, A. Thawyeey, A. Al-Shabeeb, A. Ghamdi (Riyadh, SA)
- Relationship of nondipping circadian blood pressure profile with thrombogenesis in patients with arterial hypertension.** P2112
 – A. Rekhviashvili, M. Utiaishvili, M. Dekanosidze (Tbilisi, GE)
- Blood pressure variability: Do blood pressure changes in one day cause target organ damage in hypertension?** P2113
 – D. Terentes-Printzios, C. Vlachopoulos, N. Ioakeimidis, K. Aznaouridis, C. Georgakopoulos, P. Xaplanteris, N. Magkas, E. Sigala, D. Tousoulis (Athens, GR)

15:35–16:25 | Moderated poster station - Poster Area

NON-INVASIVE DIAGNOSTIC METHODS IN CARDIAC ARRHYTHMIAS

Moderated Posters

Chairperson(s): G. Schmidt (Munich, DE); P.G. Platonov (Lund, SE)

Left ventricular myocardial fibrosis measured by contrast-enhanced cardiac MRI as a marker of adverse events in patients with nonischemic ventricular arrhythmias. P2114

– R. Shomakhov (Moscow, RU)

Validation of the proposed Shanghai Brugada Syndrome Score (SBrS) in a cohort of relatives of Sudden Arrhythmic Death Syndrome (SADS) victims. P2115

– E. Papatheodorou, M. Papadakis, B. Ensam, G. Finocchiaro, G. Mellor, K. Prakash, A. D’Silva, Y. Wijeyeratne, C. Miles, A. Malhotra, M. Tome-Esteban, V. Batchvarov, M.N. Sheppard, S. Sharma, E.R. Behr (London, UK)

12-lead ECG algorithm to differentiate between ARVC and cardiac sarcoidosis. P2116

– J. Venlet, S. Kumar, C. Brouwer, A.F.A. Androulakis, S.R.D. Piers, Y. Naruse, M. De Riva, W.G. Stevenson, K. Zeppenfeld (Leiden, NL; Boston, US)

Systolic exclusion and respiratory gating of SPECT 123I-mIBG left atrial innervation imaging improves localisation of left atrial ganglionated plexi verified during AF ablation. P2117

– J.E. Stirrup, U. Voss, S. Gregg, R. Baavour, N. Roth, C. Breault, S.R. Underwood, S. Ernst (Reading and London, UK; Caesarea, IL)

Can a multi-lead ECG be reconstructed using a single-lead handheld ECG recorder, and what is its diagnostic accuracy? P2118

– A. Nigolian, N. Dayal, H. Nigolian, H. Burri (Geneva, CH)

Clinical significance of leukocyte telomere length in atrial remodeling and prediction of AF recurrence after ablation. P2119

– S.L. Chang, K.L. Pan, Y.W. Hsiao, Y.J. Lin, L.W. Lo, Y.F. Hu, F.P. Chung, S.A. Chen (Taipei, TW)

15:35–16:25 | Moderated poster station - Poster Area

WHAT’S HOT IN STEMI?

Moderated Posters

Chairperson(s): J.C. Nicolau (São Paulo, BR); M. Amin (Riffa Views, BH)

The obesity paradox in ST elevation myocardial infarction treated with primary percutaneous coronary intervention: role of infarct size. P2120

– L. Bergamaschi, S. Avondo, S. Cornara, A. Somaschini, S. Buratti, A. Baldo, R. Camporotondo, G. Crimi, M. Ferlini, L. Oltrona Visconti, G.M. De Ferrari (Pavia, IT)

Complete revascularisation versus stress echocardiography-guided revascularisation in patients with ST-segment elevation myocardial infarction and multivessel disease (CROSS-AMI): a clinical trial. P2121

– R.A. Calvino Santos, R. Estevez-Loureiro, A. Bouzas-Mosquera, J. Peteiro-Vazquez, J.A. Rodriguez-Fernandez, A. Rodriguez-Vilela, R. Franco Gutierrez, J. Salgado Fernandez, G. Aldama-Lopez, P. Pinon-Esteban, X. Flores Rios, N. Vazquez-Gonzalez, A. Mesias-Prego, C. Gonzalez Juanatey, J.M. Vazquez Rodriguez (A Coruña, León, Ferrol and Lugo, ES)

Prognostic risk stratification in myocardial infarction with non-obstructed coronaries (MINOCA) by conventional risk factors and cardiac magnetic resonance. P2122

– A. Ghosh Dastidar, E. De Garate, Z. Drobni, A. Baritussio, P. Singhal, G. Biglino, S. Dorman, J. Strange, A. Baumbach, T.W. Johnson, C. Bucciarelli-Ducci (Bristol, UK)

The timing for elective percutaneous coronary intervention and in-hospital outcomes in patients with ST-segment elevation myocardial infarction. P2123

– Q. Zhao, H. Xu, H. Yu, Y. Yang (Beijing, CN)

High sensitivity troponin T is a stronger predictor than early infarct size determined by CMR for long-term ejection fraction. P2124

– M.A. Mohammad, S. Koul, M. Noc, I. Lang, M. Holzer, P. Clemmensen, U. Jensen, B. Lindahl, T. Engstrom, H. Arheden, B. Metzler, D. Erlinge (Lund, Stockholm and Uppsala, SE; Ljubljana, SI; Vienna and Innsbruck, AT; Hamburg, DE; Copenhagen, DK)

Randomised placebo controlled trial evaluating the safety and efficacy of intracoronary insulin like growth factor 1 post percutaneous intervention for acute myocardial infarction. P2125

– N. Caplice, M. Devoe, J. Choi, D. Dahly, E. Spitzer, R. Van Guens, M. Maher, D. Tuite, D. Kerins, P. Kelly, P. Kearney, R. Curtin, C. Vaughan, J. Eustace, E. McFadden (Cork, IE; Rotterdam, NL)

Heme proteins and STEMI: implications in prognosis. P2126

– J. Cubedo, R. Suades, T. Padro, V. Martin-Yuste, M. Sabate, J. Cinca, J. Sans-Rosello, A. Sionis, L. Badimon (Barcelona, ES)

15:40–16:00 | Spotlight Stage

Today on ESC TV

MEET THE TRIALISTS – CANTOS

Meet the Trialists

Chairperson: M. Kelm (Düsseldorf, DE)

15:40 **The Canakinumab Anti-Inflammatory Thrombosis Outcomes Study.** 2127

– P.M. Ridker (Boston, US)

15:40–16:00 | Dali - The Hub

Today on ESC TV

MEET THE TRIALISTS – RACE 3

Meet the Trialists

Chairperson(s): J. Brugada Terradellas (Barcelona, ES)

- 15:40 **Routine versus aggressive upstream rhythm control for prevention of early atrial fibrillation in heart failure, the RACE 3 study .** 2128
 – M. Rienstra (Groningen, NL)

15:40–16:20 | Agora 1 - Agora

Today on ESC TV

SOCIAL MEDIA FOR THE CARDIOLOGIST

Special Session

Chairperson(s): S.M.A. Sohaib (London, UK); M.T. Tavares Aguiar (Lisbon, PT)

- 15:40 **Why a cardiologist should use social media.** 2129
 – M.C. Alraies (Washington, US)
- 15:53 **Social media to learn, educate and network.** 2130
 – S. Sahni (New York, US)
- 16:06 **Panel discussion: social media for the cardiologist.** 2131

15:40–16:20 | Agora 2 - Agora

eHEALTH FOR INTERVENTIONAL CARDIOLOGY

Special Session

Chairperson(s): R. Mehran (New York, US); J. Lumens (Maastricht, NL)

- 15:40 **Randomised clinical trials within registries – A new concept for clinical research.** 2132
 – L.C. Wallentin (Uppsala, SE)
- 16:00 **Use of national data to analyse utilisation and appropriateness of PCI.** 2133
 – M. Thomas (Northville, US)

15:40–16:20 | Riga - Village 3

Ask a Question

IMAGE INTERPRETATION WITH THE MASTERS – MULTIMODALITY IMAGING FOR RISK STRATIFICATION IN CORONARY ARTERY DISEASE

Special Session

Chairperson(s): E. Alexanderson Rosas (Mexico City, MX); D. Berman (Los Angeles, US)

- 15:40 **Atherosclerosis in CT: the calcium score and coronary plaque.** 2134
 – S.F. Fenton (Sydney, AU)
- 15:53 **Advanced echocardiography.** 2135
 – P.A. Pellikka (Rochester, US)
- 16:06 **PET-CT and PET-MR.** 2136
 – To be announced

15:45–16:15 | Gaudi - The Hub

EVOLVING ATTITUDES IN THE MANAGEMENT OF HYPERTENSION: SHOULD COMBINATION THERAPIES BE PRESCRIBED EARLIER? **Satellite Symposium - Experts on the Spot**

Sponsored by **SERVIER**

Chairperson(s): E. Agabiti-Rosei (Brescia, IT); R.E. Schmieder (Erlangen, DE)

- 15:45 **What do guidelines and science tell us?** 2137
 – G. Mancina (Milan, IT)
- 15:55 **Low-risk hypertensive patients: why not initiate treatment with combination therapy?** 2138
 – S. Laurent (Paris, FR)
- 16:05 **Discussion: should guidelines be updated?** 2139
 – E. Agabiti-Rosei (Brescia, IT), S. Laurent (Paris, FR), G. Mancina (Milan, IT), R.E. Schmieder (Erlangen, DE)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Lisbon - Village 9.

15:45–16:15 | Goya - The Hub

IMPROVING CARDIOVASCULAR OUTCOMES IN PATIENTS WITH TYPE 2 DIABETES: OUR CLINICAL EXPERIENCE WITH EMPAGLIFLOZIN

Satellite Symposium - Experts on the Spot

Sponsored by **Boehringer Ingelheim & Eli Lilly and Company Diabetes Alliance**

Chairperson(s): D. McGuire (Dallas, US); J.R. Gonzalez Juanatey (Santiago de Compostela, ES)

- 15:45 **Improving cardiovascular outcomes in patients with type 2 diabetes: our clinical experience with empagliflozin.** 2140
 – D. McGuire (Dallas, US), J.R. Gonzalez Juanatey (Santiago de Compostela, ES)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Vilnius - Village 4.

15:45–16:15 | Miro - The Hub

DUAL ANTIPLATELET THERAPY AFTER AN ACUTE CORONARY SYNDROME: CONFRONTING THE DISPARITY BETWEEN GUIDELINES AND CLINICAL PRACTICE Satellite Symposium - Experts on the Spot

Sponsored by AstraZeneca

Chairperson(s): P.G. Steg (Paris, FR)

- | | | |
|-------|---|------|
| 15:45 | Welcome and introduction - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice. | 2141 |
| | – P.G. Steg (Paris, FR) | |
| 15:50 | Extending the duration of dual antiplatelet therapy: a clinical case study. | 2142 |
| | – D.J. Angiolillo (Jacksonville, US) | |
| 16:00 | Open questions - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice. | 2143 |
| | – P.G. Steg (Paris, FR), D.J. Angiolillo (Jacksonville, US) | |
| 16:10 | Session close - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice. | 2144 |
| | – P.G. Steg (Paris, FR) | |

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Bucharest - Village 8.

15:45–16:15 | Picasso - The Hub

REWIRE YOUR THINKING ON AF ABLATION: IMPACT OF UNINTERRUPTED DABIGATRAN Satellite Symposium - Experts on the Spot

Sponsored by Boehringer Ingelheim

Chairperson(s): H. Calkins (Baltimore, US)

- | | | |
|-------|---|------|
| 15:45 | Rewire your thinking on AF ablation: impact of uninterrupted dabigatran. | 2145 |
| | – H. Calkins (Baltimore, US), S. Willems (Hamburg, DE) | |

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Skopje - Village 5.

16:05–16:25 | Spotlight Stage

Today on ESC TV

MEET THE TRIALISTS – COMPASS

Meet the Trialists

Chairperson: E. Braunwald (Boston, US)

- | | | |
|-------|--|------|
| 16:05 | Cardiovascular Outcomes for People using Anticoagulation Strategies (COMPASS) trial: primary results. | 2146 |
| | – J.W. Eikelboom (Hamilton, CA) | |

16:05–16:25 | Dali - The Hub

Today on ESC TV

MEET THE TRIALISTS – CASTLE-AF

Meet the Trialists

Chairperson: C. Blomstrom-Lundqvist (Uppsala, SE)

- | | | |
|-------|---|------|
| 16:05 | Catheter ablation versus standard conventional treatment in patients with left ventricular dysfunction and atrial fibrillation: the CASTLE-AF trial. | 2147 |
| | – N. Marrouche (Salt Lake City, US) | |

16:30–18:00 | Barcelona - Main Auditorium



ESC Clinical Practice Guidelines

ESC GUIDELINES 2017 – FOCUSED UPDATE ON DUAL ANTIPLATELET THERAPY

Main Session

Chairperson(s): J.-P. Collet (Paris, FR); M. Valgimigli (Bern, CH)

- | | | |
|-------|---|------|
| 16:30 | The long journey of DAPT: from stents to patients. | 2148 |
| | – H. Bueno (Madrid, ES) | |
| 16:48 | DAPT type and duration in SCAD patients. | 2149 |
| | – M. Roffi (Geneva, CH) | |
| 17:06 | DAPT type and duration in ACS patients. | 2150 |
| | – F.J. Neumann (Bad Krozingen, DE) | |
| 17:24 | DAPT type and duration in OAC patients. | 2151 |
| | – R.A. Byrne (Munich, DE) | |
| 17:42 | DAPT type, duration and management in surgical patients. | 2152 |
| | – A. Jeppsson (Gothenburg, SE) | |



16:30–18:00 | Spotlight Stage

PCI OF COMPLEX CORONARY LESIONS – LEFT MAIN BIFURCATION PCI

Live in the box

Live procedure recorded from the Munich University Clinic

Chairperson(s): A. Chieffo (Milan, IT); A. Colombo (Milan, IT); T. Lefevre (Massy, FR); G. Stone (New York, US)

16:30	Left main bifurcation PCI - Introduction.	2153
	– A. Colombo (Milan, IT)	
16:45	LM PCI versus surgery - Current data in a comprehensive review.	2154
	– A. Colombo (Milan, IT)	
16:50	Bifurcation techniques and their application to the left main coronary artery.	2155
	– J.F. Lassen (Copenhagen, DK)	
17:05	Left main bifurcation PCI - Live in the box.	2156
	– J. Mehilli (Munich, DE)	
17:45	Left main bifurcation PCI - Discussion.	2157
17:55	Left main bifurcation PCI - Conclusion.	2158
	– T. Lefevre (Massy, FR)	

16:30–18:00 | Dali - The Hub

HIGHLIGHTS FROM THE NEW ENGLAND JOURNAL OF MEDICINE: EDITORS' CHOICE

Symposium

Joint with the New England Journal of Medicine

Chairperson(s): K.A.A. Fox (Edinburgh, UK); J. Jarcho (Boston, US)

16:30	CSK9 inhibitors and cardiovascular outcomes – Represented in New England Journal of Medicine by the FOURIER and SPIRE trials.	2159
	– M. Sabatine (Boston, US)	
16:52	Bioresorbable vascular scaffolds for PCI – Represented in New England Journal of Medicine by the ABSORB III and AIDA trials.	2160
	– J.J. Wykrzykowska (Abcoude, NL)	
17:15	ICD implantation for non-ischaemic cardiomyopathy – Represented in New England Journal of Medicine by the DANISH trial.	2161
	– L. Kober (Copenhagen, DK)	
17:37	Prevention of recurrent venous thromboembolism – Represented in New England Journal of Medicine by several trials, including EINSTEIN, AMPLIFY, WARFASA, Hokusai-VTE, and others.	2162
	– J. Weitz (Hamilton, CA)	

16:30–18:00 | Gaudi - The Hub

Cardiologists of Tomorrow

THE FUTURE THERAPY OF HEART FAILURE: SHALL WE FIND THE ANSWERS IN THE CRYSTAL BALL?

Special Session

Chairperson(s): B. Merkely (Budapest, HU); E.A. Jankowska (Wroclaw, PL)

16:30	Will ACE inhibitors be abandoned in the treatment of HFrEF?	2163
	– J.J.V. McMurray (Glasgow, UK)	
16:52	Should beta-blockers be stopped in HFrEF and atrial fibrillation?	2164
	– T.A. McDonagh (London, UK)	
17:15	Will we use VADs to recover the failing heart in the future?	2165
	– S. Drakos (Cottonwood Heights and Salt Lake City, US)	
17:37	The path to leadless CRT.	2166
	– J.G.F. Cleland (Glasgow, UK)	

16:30–18:00 | Goya - The Hub

VALUABLE LESSONS ON FREQUENT DISEASES – INSIGHTS FROM ESC REGISTRIES

Symposium

Joint with the EURObservation Research Programme (EORP)

Chairperson(s): A.P. Maggioni (Milan, IT); A. Vahanian (Paris, FR)

16:30	The new course of the EORP.	2167
	– A. Vahanian (Paris, FR)	
16:48	Valvular heart disease: the VHD II registry.	2168
	– B. Lung (Paris, FR)	
17:06	Coronary artery disease: CICD Pilot registry 6 month follow-up.	2169
	– M. Komajda (Paris, FR)	
17:24	Cardiomyopathy registry.	2170
	– P. Charron (Paris, FR)	
17:42	Valuable lessons on frequent diseases - Insights from ESC registries - Conclusion.	2171
	– A.P. Maggioni (Milan, IT)	

16:30–18:00 | Miro - The Hub

ATRIAL FIBRILLATION MANAGEMENT

Guidelines in Daily Practice

A session with the Finnish Society of Cardiology

Chairperson(s): P.R. Raatikainen (Tampere, FI); D. Kotecha (Birmingham, UK)

- 16:30 **Top ten messages from the atrial fibrillation guidelines.** 2172
– H. Makynen (Tampere, FI)
- 16:40 **A case of pulmonary vein isolation.** 2173
– R. Luite (Kuopio, FI)
- 16:50 **Interpretation of guideline recommendations.** 2174
– M. Strandberg (Turku, FI)
- 17:05 **Guidelines implementation: challenges and opportunities.** 2175
– P.R. Raatikainen (Tampere, FI)
- 17:20 **New evidence that has emerged since the guidelines were published.** 2176
– J. Hartikainen (Kuopio, FI)
- 17:40 **Panel discussion: atrial fibrillation management - Problems and opportunities for clinical practice.** 2177
– J. Hartikainen (Kuopio, FI), H. Makynen (Tampere, FI), P.R. Raatikainen (Tampere, FI), D. Kotecha (Birmingham, UK)

16:30–18:00 | Picasso - The Hub

CLINICAL VALUE OF CARDIAC CT

Rapid Fire Abstract

Chairperson(s): G.M. Feuchtnr (Innsbruck, AT); T. Villines (Rockville, US)

- 16:30 **Characterization of functionally significant coronary artery disease by a novel coronary computed tomography angiography based index: a comparison with quantitative PET perfusion.** 2178
– P.K. Siogkas, D. Neglia, A.I. Sakellarios, R. Liga, G. Pelosi, M.I. Papafaklis, T. Niittymaki, A.J.H.A. Scholte, O. Gaemperli, P.A. Kaufmann, O. Parodi, L.K. Michalis, D.I. Fotiadis, J. Knuuti, C.D. Anagnostopoulos (Ioannina and Athens, GR; Pisa, IT; Turku, FI; Leiden, NL; Zurich, CH)
- 16:48 **Influence of irregular heart rhythm on radiation exposure, image quality and diagnostic impact of cardiac computed tomography angiography in 4,767 patients.** 2179
– G. Korosoglou, M. Marwan, A. Schermund, S. Schneider, S. Giusca, G. Gitsioudis, O. Bruder, J. Hausleiter, S. Schroeder, A. Leber, J. Rixe, H.A. Katus, S. Achenbach, J. Senges (Heidelberg, Erlangen, Frankfurt, Ludwigshafen, Essen, Munich, Geislingen and Giessen, DE)
- 16:57 **Safety and efficacy of coronary computed tomography angiography for guiding the implementation of invasive coronary angiography according to pre-test probability of significant coronary artery disease.** 2180
– D. Han, J. Szymonifka, J.H. Lee, A. Rizvi, H. Mirheydari, M.W. Park, B. O'Hartaigh, J. Pena, F.Y. Lin, J.K. Min, H.J. Chang (Seoul, KR; New York, US)
- 17:06 **Impact of average blood pressure on aortic diameter dilation in elderly men with hypertension: A prospective, 3-year follow-up study with non-contrast computed tomography.** 2181
– I.J. Cho, H.J. Chang, S.E. Lee, N. Chung (Seoul, KR)
- 17:15 **Discrepancy of cardiac computed tomography anatomical aortic valve area with echocardiographic haemodynamic parameters and evaluation of potential mechanisms using computational flow dynamics.** 2182
– T.K. Mittal, L. Reichmuth, M. Jain, A. Baltabaeva, S. Rahman Haley, T. Kabir, M. Dalby, Q. Long (London, UK)
- 17:24 **Left atrial morphological remodeling assessed by multi-detector computed tomography predicts atrial fibrillation among patients with diastolic dysfunction or preserved ejection fraction heart failure.** 2183
– J.Y. Kuo, S.H. Chang, C.H. Yun, P.C. Chi, J.Y. Sun, G.S.P. Mok, H.I. Yeh, T.H. Wu, C.L. Hung (Taipei, TW)
- 17:33 **Accuracy of coronary computed tomographic angiography to detect obstructive coronary artery disease by using stress versus rest dataset in patients referred to stress computed tomographic perfusion.** 2184
– G. Pontone, A. Baggiano, F. Fazzari, D. Andreini, A.I. Guaricci, M. Guglielmo, G. Calligaris, S. Galli, G. Teruzzi, D. Trabattoni, F. Fabbocchi, A. Lualdi, P. Montorsi, A. Bartorelli, M. Pepi (Milan, Palermo and Bari, IT)
- 17:42 **Is myocardial bridging based on coronary CTA associated with chest symptoms in the real world?** 2185
– H. Kawai, S. Motoyama, Y. Nagahara, M. Miyagi, K. Miyajima, H. Ito, H. Takahashi, J. Ishii, M. Sarai, Y. Ozaki (Toyoake, JP)
- 17:51 **Prevalence and characteristics of anomalous coronary arteries origin from the opposite side in an unselected population of patients undergoing computed tomographic angiography.** 2186
– A. Rivero Monteagudo, M. Orejas, J. Farre, A. Garcia, M. Tomas, F. Navarro, G. Aldamiz, A. Devesa, M.A. Navas, M. Cortes, R. Rabago, B. Ibanez (Madrid, ES)

16:30–18:00 | Agora 1 - Agora

IMPACT OF CONCOMITANT DISEASE ON CORONARY ARTERY DISEASE

Rapid Fire Abstract

Chairperson(s): F. Andreotti (Rome, IT); E. Mirakhimov (Bishkek, KG)

- 16:39 **Long-term prognostic significance of diabetes mellitus according to renal function in myocardial infarction patients. The FAST-MI 2005 registry.** 2187
 – E. Puymirat, R. Roussel, N. Aissaoui, G. Ducrocq, E. Ferrari, G. Legros, G. Lemesle, X. Marcaggi, L. Belle, J. Ferrieres, F. Schiele, T. Simon, N. Danchin (Paris, Nice, Roubaix, Lille, Vichy, Annecy, Toulouse and Besançon, FR)
- 16:48 **Prevalence of genetically confirmed familial hypercholesterolemia in patients with acute coronary syndrome.** 2188
 – A. Amor-Salamanca, S. Castillo, E. Gonzalez-Vioque, F. Dominguez, L. Quintana, C. Lluís-Gamella, J.M. Escudier-Villa, J. Ortega-Marcos, L. Alonso-Pulpon, P. Garcia-Pavia (Madrid and Barcelona, ES)
- 16:57 **The interplay between Acute Coronary Syndrome and Atrial Fibrillation: Poor outcomes and longer hospital stay in a study of 18,444 patients.** 2189
 – M.B. Proty, H.C. Hoskins, A. Lacey, D. Smith, P. Freeman (Cardiff and Swansea, UK; Aalborg, DK)
- 17:06 **Prevalence, management and prognostic impact on long-term mortality of familial hypercholesterolemia in patients with acute or stable coronary artery disease.** 2190
 – M. Tscharre, R. Herman, M. Rohla, S. Farhan, I. Tentzeris, M.K. Freynhofer, T.W. Weiss, K. Huber (Vienna, AT)
- 17:15 **Impact of non-cardiovascular multimorbidity after acute coronary syndrome.** 2191
 – S. Canivell, O. Muller, B. Gencer, D. Heg, R. Klingenberg, L. Raeber, D. Carballo, C.M. Matter, T.F. Luescher, S. Windecker, F. Mach, N. Rodondi, D. Nanchen (Lausanne, Geneva, Bern and Zurich, CH)
- 17:24 **Significance of renal function in progression of coronary artery calcification in general population.** 2192
 – H.S. Lee, W.J. Lee, S.A. Lee, N.J. Heo, S.R. Lee, H.E. Park, S.Y. Choi (Seoul, KR)
- 17:33 **Insights to pathophysiology and risk factors of cardiac allograft vasculopathy: A prospective study using highly automated coronary optical coherence tomography segmentation software in 3D.** 2193
 – M. Pazdemik, H. Bedanova, J. Kautzner, V. Melenovsky, V. Kamazin, A. Tomasek, T. Kovarnik, I. Malek, A. Wahle, Z. Chen, M. Sonka (Prague and Brno, CZ; Iowa City, US)
- 17:42 **Discordance between angiographic and physiologic evaluation of coronary artery lesions in patients with aortic valve stenosis.** 2194
 – G. Di Gioia, R. Scarsini, T. Strisciuglio, C. De Biase, C. Zivelonghi, D. Franco, B. De Bruyne, F. Ribichini, E. Barbato (Aalst, BE; Verona and Naples, IT)
- 17:51 **Hepatitis C virus infection and coronary artery disease: an updated meta-analysis.** 2195
 – E. De Vito, E. Gabrielli, F. Scudiero, C. Zocchi, V. Pallazola, C. Di Mario, G. Parodi (Florence, IT; Boston, US)

16:30–18:00 | Agora 2 - Agora



OPTIMISED MYOCARDIAL REVASCULARISATION STRATEGIES

Rapid Fire Abstract

Chairperson(s): C. Grines (Manhasset, US); L. Torracca (Rozzano, IT)

- 16:30 **Five-year outcomes of bifurcation stenting: insights from the SYNTAX trial.** 2196
– M. Spaziano, A. Roy, M. Akodad, Y. Louvard, T. Lefevre, P. Serruys, B. Chevalier, M.C. Morice (Massy, FR; Rotterdam, NL)
- 16:39 **Burden and causes of rehospitalisations following coronary artery bypass grafting: a nationwide study.** 2197
– J.H. Butt, H. Nabi, G.H. Gislason, C. Torp-Pedersen, L. Kober, E.L. Fosbol (Copenhagen, Hellerup and Aalborg, DK)
- 16:57 **Bilateral internal mammary artery in situ versus Y-graft: mid-term results.** 2198
– F.-A. Saraiva, R.J. Cerqueira, M.J. Amorim, A.F. Ferreira, A.P. Lourenco, P. Pinho, A.F. Leite-Moreira (Porto, PT)
- 17:06 **Rate of very late stent thrombosis differs between drug-eluting stents: a 5-year pooled landmark analysis of the SORT OUT III, IV, and V trials.** 2199
– M. Maeng, E.H. Christiansen, B. Raungaard, S.D. Kristensen, C.J. Terkelsen, S.E. Jensen, J. Ravkilde, A. Junker, K.T. Veien, M. Madsen, H.E. Boetker, L.O. Jensen (Aarhus, Aalborg and Odense, DK)
- 17:15 **Adherence to cardiac surgical waitlist guidelines is a poor predictor of cardiac surgery waitlist mortality.** 2200
– J. Senaratne, C. Norris, R. McClure, J. Nagendran, C. Butler, S. Meyer, T. Anderson, S. Van Diepen (Edmonton and Calgary, CA)
- 17:24 **Comparative efficacy and safety of novel biodegradable polymer sirolimus-eluting stents versus permanent polymer everolimus-eluting stents at 5-year follow-up.** 2201
– R. Colleran, J. Michel, D. Giaccoppo, S. Cassese, M. Joner, A. Kastrati, R.A. Byrne (Munich, DE)
- 17:33 **Predictors of cognitive decline after cardiac surgery: an evaluation of the CABG off or on pump revascularization study (CORONARY) cohort.** 2202
– J. Spence, J. Bosch, M. Sharma, T. Cukierman-Yaffe, M. Canavan, E. Belley-Cote, R. Whitlock, P.J. Devereaux, A. Lamy (Hamilton, CA)
- 17:42 **Association between repeated transradial catheterization and vascular function of brachial artery assessed by flow mediated dilatation in long-term follow-up.** 2203
– S. Ichijo, T. Yonetsu, Y. Kannon, R. Hamaya, T. Niida, M. Hada, M. Hoshino, E. Usui, Y. Kanji, T. Murai, T. Ree, T. Kakuta (Tsuchiura, JP)
- 17:51 **Quality of life and economic outcomes of on-pump and off-pump stable multivessel coronary artery bypass grafting - MASS III trial 5-year follow-up.** 2204
– T.L. Scudeler, W. Hueb, P.C. De Soarez, A.G. Campolina, P.C. Rezende, E.G. Lima, C.L. Garzillo, D.F.C. Azevedo, L.M.A. Costa, F.T.C. Oikawa, J.A.F. Ramires, R. Kalil Filho (São Paulo, BR)

16:30–18:00 | Dublin - Village 1

BIOMATERIALS AND TISSUE ENGINEERING STRATEGIES FOR MYOCARDIAL REGENERATION

Symposium

Chairperson(s): D.E. Atsma (Leiden, NL); C. Stefanadis (Paleo Psychico, GR)

- 16:30 **Why we need new approaches to repair the heart after myocardial infarction.** 2205
– R. Madonna (Chieti, IT)
- 16:52 **Engineered bioactive cardiac grafts for myocardial regeneration.** 2206
– A. Bayes Genis (Badalona, ES)
- 17:15 **Cell therapy in combination with reabsorbable biomaterials.** 2207
– J. Leor (Tel Hashomer, IL)
- 17:37 **Cardiac regeneration and repair: how to get it from bench to bedside?** 2208
– J.P.G. Sluijter (Utrecht, NL)

16:30–18:00 | Fira - Village 1

PCSK9: BEYOND LIPID-LOWERING EFFECTS?

Advances in Science

Chairperson(s): C. Boileau (Paris, FR); H.S. Kim (Seoul, KR)

- 16:30 **State of the Art: PCSK9 - Beyond lipid-lowering effects?** 2209
 – U. Landmesser (Berlin, DE)
- 16:48 **PCSK9 beyond its role in cholesterol homeostasis: co-activator of platelet function.** 2210
 – L. Rossetti, N. Ferri, S. Marchiano, B. Canciani, D. Trabattoni, F. Santilli, G. Davi, E. Tremoli, M. Camera (Milan, Padua and Chieti, IT)
- 17:06 **Serum PCSK9 in relation to coronary near-infrared spectroscopy-derived lipid core burden index and long-term cardiovascular outcome [ATHEROREMO-NIRS substudy].** 2211
 – S.S. Anroedh, R.M. Oemrawsingh, J.M. Cheng, H.M. Garcia-Garcia, E.S. Regar, R.J.M. Van Geuns, P.W. Serruys, J. Daemen, N.M. Van Mieghem, E. Boersma, I. Kardys, K.M. Akkerhuis (Rotterdam, NL; Washington, US; London, UK)
- 17:24 **PCSK9 inhibition decreases endothelial nitric oxide synthase activation in response to inflammatory conditions in endothelial cells.** 2212
 – G. Berti, S. Del Turco, S. Del Ry, D. Neglia, R. De Caterina, C. Caselli (Pisa and Chieti, IT)
- 17:42 **PCSK9 inhibition: what do we know from clinical trials?** 2213
 – J. Chapman (Paris, FR)

16:30–18:00 | Astana - Village 2



NEW TREATMENTS FOR HYPERTENSION – SCANNING THE HORIZON

Symposium

Chairperson(s): M. Burnier (Lausanne, CH); Z. Fras (Ljubljana, SI)

- 16:30 **Where are the new drugs?** 2214
 – A. Konradi (St. Petersburg, RU)
- 16:52 **The current status of renal denervation.** 2215
 – M. Böhm (Homburg, DE)
- 17:15 **New devices for the treatment of hypertension.** 2216
 – A. Pathak (Toulouse, FR)
- 17:37 **Panel discussion: new treatments for hypertension - Scanning the horizon.** 2217

16:30–18:00 | Pristina - Village 2



DEVICE-BASED THERAPY FOR HYPERTENSION – WHERE NEXT?

Advances in Science

Chairperson(s): H.M. Nef (Giessen, DE); K. Kario (Shimotsuke, JP)

- 16:30 **State of the Art: device-based therapy for hypertension.** 2218
 – M. Lobo (London, UK)
- 16:48 **Efficacy and safety results of endovascular baroreflex amplification (EBA) for resistant hypertension (CALM-FIM studies): a safety and proof-of-principle cohort study.** 2219
 – W. Spiering, J. Van Der Heyden, M.E.A. Van Kleef, A.A. Kroon, C. Devireddy, M.T. Foster Iii, M.G.H. Ghali, F.O. Mendelsohn, H. Reuter, J. Reilly, M. Bates (Utrecht, Nieuwegein and Maastricht, NL; Atlanta, Knoxville, Des Moines, Birmingham, New Orleans and Charleston, US; Cologne, DE)
- 17:06 **Sham or no-sham control in trials of renal denervation for treatment resistant hypertension: a systematic meta-analysis.** 2220
 – F. Fadl El Mula, Y. Feng, L. Jacobs, A.C. Larstorp, A. Persu, S.E. Kjeldsen, J.A. Staessen (Oslo, NO; Beijing, CN; Leuven and Brussels, BE)
- 17:24 **Validating renal nerve stimulation-induced blood pressure changes as a predictor of clinical response to renal sympathetic denervation.** 2221
 – M.R. De Jong, A.F. Hoogerwaard, A. Adiyaman, J.J.J. Smit, P.P.H.M. Delnoy, A.R. Ramdat Misier, A. Elvan (Zwolle, NL)
- 17:42 **Designing trials for devices in hypertension - What have we learned?** 2222
 – F. Mahfoud (Homburg, DE)

16:30–18:00 | Beirut - Village 3

EMERGING METHODS IN CARDIAC MAGNETIC RESONANCE: EARLY CLINICAL EVIDENCE Advances in Science

Chairperson(s): J.S. Schwitter (Lausanne, CH); A. Codreanu (Luxembourg, LU)

- 16:30 **State of the Art: emerging CMR methods for flow and structural imaging.** 2223
– V. Ferrari (Philadelphia, US)
- 16:48 **4D flow components and kinetic energy: novel imaging biomarkers in heart failure.** 2224
– V. Stoll, A. Hess, J. Eriksson, M. Bissell, P. Dyerfeldt, T. Ebbers, S. Myerson, C.J. Carlhall, S. Neubauer (Oxford, UK; Linköping, SE)
- 17:06 **Identification of vulnerable coronary atherosclerotic plaque using molecular 3T CMR imaging with an albumin-binding probe.** 2225
– L.C. Engel, U.L. Landmesser, K. Gigengack, T. Wurster, M. Jaguszewski, G. Girke, C. Skurk, D.M. Leistner, A. Lauten, A. Schuster, B. Hamm, R.M. Botnar, M. Makowski, B. Bigalke (Berlin and Göttingen, DE; London, UK)
- 17:24 **Diffusion tensor CMR in situs inversus: insights into the deranged microstructure and how it affects cardiac function.** 2226
– Z. Khalique, P.F. Ferreira, A.D. Scott, S. Nilles-Vallespin, D.N. Firmin, D.J. Pennell (London, UK; Bethesda, US)
- 17:42 **What are the next CMR methods that will have clinical value?** 2227
– F.E. Rademakers (Leuven, BE)

16:30–18:00 | Riga - Village 3

IMAGING FOR TAVI

Chairperson(s): D. Messika-Zeitoun (Paris, FR); N. Piazza (Dollard-des-Ormaux, CA)

- 16:30 **Avoiding pitfalls in assessing aortic stenosis severity.** 2228
– P. Pibarot (Quebec, CA)
- 16:52 **CT to guide patient selection before TAVI.** 2229
– A. Rolf (Bad Nauheim, DE)
- 17:15 **Assessing aortic regurgitation after TAVI.** 2230
– M.J. Monaghan (London, UK)
- 17:37 **Imaging of bioprosthetic valve thrombosis: what it really means.** 2231
– M. Marwan (Erlangen, DE)



Ask a Question

Expert Advice

16:30–18:00 | Chisinau - Village 4

CLINICAL CONUNDRUMS IN SPORTS CARDIOLOGY: HOW IMAGING HELPS DIAGNOSIS

Case-based Symposium

Chairperson(s): M. Borjesson (Vastra Frolunda, SE); H.K. Rasmussen (Copenhagen, DK)

- 16:30 **An athlete with left ventricular prominent trabeculations; athlete's heart or cardiomyopathy?** 2232
– S. Caselli (Rome, IT)
- 17:00 **Athlete with LBBB pattern tachyarrhythmias; athlete's heart or arrhythmogenic right ventricular cardiomyopathy?** 2233
– M. Papadakis (London, UK)
- 17:30 **Extremes of cardiac adaptation to exercise and overlap with disease - State of the Art.** 2234
– A. Pelliccia (Rome, IT)



Ask a Question

16:30–18:00 | Vilnius - Village 4

HEART AND MIND

Advances in Science

Chairperson(s): J. Denollet (Tilburg, NL); T.M. Norekval (Bergen, NO)

- 16:30 **State of the Art: health related quality of life in cardiac patients.** 2235
– C. Deaton (Cambridge, UK)
- 16:48 **Health-related quality of life in general Russian population and specifics of quality of life in arterial hypertension population.** 2236
– Y. Balanova, A. Kontsevaya, A. Deev, A. Imayeva, S. Shalnova (Moscow, RU)
- 17:06 **The effect of a multi-disciplinary care pathway for refractory angina on psychological outcomes, quality of life and medication use.** 2237
– K. Cheng, C. Wright, R. De Silva (London, UK)
- 17:24 **Anxiety, depression and risk behaviour in cardiac patients. Findings from the national DenHeart survey.** 2238
– S. Kikkenborg Berg, T.B. Rasmussen, L. Thysoe, C.B. Thorup, B. Borregaard, A.V. Christensen, O. Ekholm, K. Juel, M. Vamosi (Copenhagen, Hellerup, Odense, Aalborg and Aarhus, DK)
- 17:42 **Psycho-social factors and heart disease - Latest evidence.** 2239
– D.R. Thompson (Melbourne, AU)

16:30–18:00 | Skopje - Village 5

HIGH BURDEN OF VENTRICULAR ECTOPIC BEATS: WHAT HAVE WE LEARNED IN THE LAST DECADES? Symposium

Chairperson(s): A. Berruezo Sanchez (Barcelona, ES); R.-G. Vatasescu (Bucharest, RO)

- 16:30 **Incidence and impact of frequent PVCs: from structurally normal hearts to severely depressed LV function.** 2240
– P. Maury (Toulouse, FR)
- 16:52 **Clinical, electrocardiographic, imaging and mapping data to discriminate right from left PVC origin.** 2241
– I. Deisenhofer (Munich, DE)
- 17:15 **The origin matters! Outflow tract versus non-outflow tract PVC.** 2242
– T.L. Lewalter (Munich, DE)
- 17:37 **PVC ablation: having CAST in mind, what should we expect?** 2243
– D. Penela (Piacenza, IT)

16:30–18:00 | Valetta - Village 5



NOVEL METHODS FOR ATRIAL FIBRILLATION SCREENING Advances in Science

Chairperson(s): A. El-Damaty (Cairo, EG); C. Sticherling (Basel, CH)

- 16:30 **State of the Art: how and whom to screen for atrial fibrillation.** 2244
– R.B. Schnabel (Hamburg, DE)
- 16:48 **Excessive supraventricular ectopic activity as a risk factor for stroke independently of atrial fibrillation detection.** 2245
– A.R. Marinheiro, L. Parreira, P. Amador, T. Duarte, C. Sa, M. Fonseca, J. Farinha, R. Caria (Setubal, PT)
- 17:06 **Incidence of atrial tachyarrhythmias in patients with pacemakers. A real-world observational research.** 2246
– G. Boriani, D. Facchin, S. Baccillieri, G. Gasparini, F. Zoppo, G. Allocca, E. Dametto, R. Verlato, G.L. Botto, L. Padeletti, A. Proclemer (Bologna, Udine, Camposampiero, Mestre-Venice, Mirano, Conegliano, Pordenone, Como and Florence, IT)
- 17:24 **Diagnostic accuracy of a novel mobile phone application in monitoring atrial fibrillation.** 2247
– G. Rozen, J. Vaid, S.M. Hosseini, A. Rafael, A. Roka, I. Kaadan, M.Z. Poh, E.K. Heist, J.N. Ruskin (Boston and Cambridge, US)
- 17:42 **Atrial fibrillation screening - Where does the road lead to?** 2248
– J. Healey (Hamilton, CA)

16:30–18:00 | Bishkek - Village 6

INTERVENTION FOR STROKE PREVENTION Symposium

Chairperson(s): A.S. Petronio (Pisa, IT); R.H. Strasser (Dresden, DE)

- 16:30 **Reducing peri procedural stroke during TAVI.** 2249
– A. Baumbach (London, UK)
- 16:52 **PFO closure: when and in whom?** 2250
– S. Kar (Los Angeles, US)
- 17:15 **Left atrial appendage occlusion: where do we stand in 2017?** 2251
– A. Tzikas (Thessaloniki, GR)
- 17:37 **Carotid intervention to prevent stroke.** 2252
– S. Hiremath (Pune, IN)

16:30–18:00 | Luxembourg - Village 6



RECANALISATION OF CHRONIC TOTAL CORONARY OCCLUSIONS: TRANSATLANTIC TIPS, TRICKS AND INSIGHTS Symposium

Joint with the Canadian Cardiac Society

Chairperson(s): J.J. Bax (Leiden, NL); C. Kells (Halifax, CA)

- 16:30 **How imaging helps to increase my CTO success rate.** 2253
– J. Rieber (Munich, DE)
- 16:52 **Accessing the fourth dimension for CTO intervention: the SI space.** 2254
– M.N. Vo (Edmonton, CA)
- 17:15 **Accessing the wormhole for CTO intervention: the impossible collateral.** 2255
– S. Rinfret (Quebec, CA)
- 17:37 **CTO secrets: tips and tricks for wires and their bends.** 2256
– G. Sianos (Thessaloniki, GR)

16:30–18:00 | Podgorica - Village 6

PAD AND CARDIAC DISEASE – A PERMANENT CROSS-TALK


Advances in Science

Chairperson(s): R.M. Mathew (Cochin, IN); I. Desormais (Limoges, FR)

- 16:30 **State of the Art: PAD and atrial fibrillation - A dreadful combination.** 2257
 – C. Espinola-Klein (Mainz, DE)
- 16:48 **Peripheral arterial disease in a cohort of atrial fibrillation patients. The Atrial Fibrillation Follow Up Investigation Of Rhythm Management (AFFIRM) study.** 2258
 – A. Vitalis, G.Y.H. Lip, M. Proietti, B. Olshansky, A. Shantsila (Birmingham, UK; Iowa City, US)
- 17:06 **Ticagrelor in patients with symptomatic peripheral artery disease and prior coronary artery disease.** 2259
 – J. Berger, G. Heizer, I. Baumgartner, F.G.R. Fowkes, P. Held, B.G. Katona, L. Norgren, W.S. Jones, R.D. Lopes, B.L. Abramson, M. Millegard, J. Blomster, W.R. Hiatt, M.R. Patel, K.W. Mahaffey (New York, Durham, Gaitersburg, Aurora and Stanford, US; Bern, CH; Edinburgh, UK; Mölndal and Örebro, SE; Toronto, CA)
- 17:24 **Different cardiovascular outcomes in patients with myocardial infarction and peripheral arterial disease - Swedish nationwide data.** 2260
 – B. Sigvant, T. Jernberg, L.P. Hasvold, M. Thuresson, S. Johansson, J. Nordanstig, M. Janzon (Karlstad, Stockholm, Södertälje, Mölndal, Gothenburg and Linköping, SE)
- 17:42 **PAD and heart failure: more than a random finding.** 2261
 – B. Linnemann (Frankfurt, DE)

16:30–18:00 | Oslo - Village 7

HOT ISSUES IN MYOCARDITIS

 Ask a Question

Symposium

Chairperson(s): U. Eriksson (Wetzikon, CH); S. Pankuweit (Marburg, DE)

- 16:30 **Transition from acute myocarditis to dilated cardiomyopathy.** 2262
 – A.L.P. Caforio (Padua, IT)
- 16:52 **Diagnosing myocarditis - Cardiac magnetic resonance versus endomyocardial biopsy.** 2263
 – L. Cooper (Jacksonville, US)
- 17:15 **Myocarditis with preserved ejection fraction - Clinical management.** 2264
 – S.B. Felix (Greifswald, DE)
- 17:37 **Immunosuppression for myocarditis - When, how, and how long?** 2265
 – A. Frustaci (Rome, IT)

16:30–18:00 | Rabat - Village 7

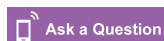
PULMONARY HYPERTENSION IN CONGENITAL HEART DISEASE

Symposium

Chairperson(s): W. Budts (Leuven, BE); S. Rosenkranz (Cologne, DE)

- 16:30 **Pulmonary hypertension after shunt repair.** 2266
 – M. D'Alto (Naples, IT)
- 16:52 **Congenital heart disease and group 2 pulmonary hypertension.** 2267
 – G.P. Diller (Münster, DE)
- 17:15 **Segmental and Fontan-related pulmonary hypertension: new entities.** 2268
 – K. Dimopoulos (London, UK)
- 17:37 **Take good care: adult congenital heart disease with pulmonary hypertension in the intensive care unit.** 2269
 – J.L. Vachieri (Brussels, BE)

16:30–18:00 | Bucharest - Village 8



CHEST PAIN IN THE EMERGENCY DEPARTMENT: THE “BIOMARKERS-VERSUS-IMAGING-DILEMMA”

Advances in Science

Chairperson(s): T.K. Steigen (Tromsø, NO); L.E. Sade (Ankara, TR)

- 16:30 **State of the Art: chest pain in the emergency department: biomarkers, how and when.** 2270
– E. Giannitsis (Heidelberg, DE)
- 16:48 **Validation of the European Society of Cardiology 0/1-hour algorithm for rule-out and rule-in of acute myocardial infarction.** 2271
– R. Twerenbold, J.T. Neumann, N.A. Soerensen, M. Karakas, M. Rubini Gimenez, J. Boeddinghaus, C. Puelacher, O. Miro, F.J. Martin-Sanchez, B. Morawiec, J. Parenica, T. Reichlin, S. Blankenberg, D. Westermann, C. Mueller (Basel, CH; Hamburg, DE; Barcelona and Madrid, ES; Katowice, PL; Brno, CZ)
- 17:06 **A rapid rule-out strategy based on high sensitive troponin and HEART score implemented in clinical routine is safe and reduces admission to hospital.** 2272
– L. Ljung, B. Lindahl, K.M. Eggers, M. Frick, R. Linder, A. Martinsson, D. Melki, N. Sarkar, P. Svensson, T. Jernberg (Stockholm and Uppsala, SE)
- 17:24 **Downstream testing and cost-effectiveness of triple-rule-out CTA in acute chest pain.** 2273
– R.A.P. Takx, J.L. Wichmann, K. Otani, C. Tesche, S. Baumann, T.M. Duguay, B.E. Jacobs, S.E. Litwin, C.N. De Cecco, R.R. Bayer II, M. Renker, T.J. Vogl, C.M. Carr, U.J. Schoepf (Utrecht, NL; Charleston, US; Frankfurt, DE)
- 17:42 **Coronary CT imaging in acute chest pain: present and future.** 2274
– M. Ferencik (Portland, US)

16:30–18:00 | Tripoli - Village 8

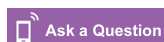
CORONARY MICROVASCULAR DISEASE

Symposium

Chairperson(s): T. Akasaka (Wakayama, JP); F. Crea (Rome, IT)

- 16:30 **Pathophysiology of coronary microcirculation.** 2275
– J.R. Lindner (Portland, US)
- 16:52 **Myocardial contrast echo: ready for prime time?** 2276
– A. Hagendorff (Leipzig, DE)
- 17:15 **PET and CMR assessment of microcirculation.** 2277
– P.G. Camici (Milan, IT)
- 17:37 **What is the added value of invasive diagnostic testing?** 2278
– J.F. Beltrame (Adelaide, AU)

16:30–18:00 | Lisbon - Village 9



ACUTE HEART FAILURE IN THE EMERGENCY DEPARTMENT

Symposium

Chairperson(s): V.-P. Harjola (Helsinki, FI); J. Zhang (Beijing, CN)

- 16:30 **Acute heart failure: management of the first hours in the emergency department.** 2279
– S. Gevaert (Ghent, BE)
- 16:52 **How to use biomarkers in acute heart failure.** 2280
– A. Maisel (Solana Beach, US)
- 17:15 **Is there any role for novel drugs in acute heart failure?** 2281
– G.S. Filippatos (Athens, GR)
- 17:37 **When to discharge patients with acute heart failure?** 2282
– A.D. Ristic (Belgrade, RS)

16:30–18:00 | Warsaw - Village 9

MANAGEMENT OF HEART FAILURE – THINKING AHEAD

Symposium

Joint with the American Heart Association

Chairperson(s): S.C. Clarke (Cambridge, UK); J. Warner (Dallas, US)

- 16:30 **Heart failure: new concepts for optimal drug therapy.** 2283
– C. Yancy (Chicago, US)
- 16:52 **Device therapy for heart failure - Recent developments.** 2284
– C. Leclercq (Rennes, FR)
- 17:15 **Indications for mechanical support and heart transplantation - State of the Art.** 2285
– M.T. Tavares Aguiar (Lisbon, PT)
- 17:37 **Quality of care across the continuum.** 2286
– F. Hernandez (Durham, US)

Late-Breaking Science Posters (see page 106) are on display from 08:30 to 18:00.
From 15:35 to 16:25 Trialists Presenters will summarise their research and address questions from the Chairpersons and Audience.

14:00–18:00 | Best poster screen - Poster Area

BEST POSTERS 3

Best Posters

Discussant intervention 15:35–16:25

Best Posters are on display from 14:00 to 18:00 on the Best Posters plasma screen of the related topic. During the viewing time (15:35–16:25), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN PRIMARY AND ACUTE PCI

Discussant: Best Posters in Primary and acute PCI.

P2287

– M. Noc (Ljubljana, SI), A. Hoyer (Hull, UK)

Early and late outcomes and implementation of the ESC guidelines in NSTEMI and STEMI - a population approach to evaluate the system of care for AMI patients in Poland in 2009-2013.

P2288

– M. Gierlotka, L. Polonski, T. Zdrojewski, M. Gasior, B. Wojtyniak, K. Chlebus, A. Kozierekiewicz, L. Wierucki, J. Stokwiszewski, D. Rutkowski, Z. Kalarus, M. Wysocki, M. Zembala, P. Hoffman, G. Opolski (Zabrze, Gdansk and Warsaw, PL)

Percutaneous coronary intervention reduces in-hospital mortality in myocardial infarction patients regardless of sex, age, and presence of ST elevation and comorbidities.

P2289

– I. Roman Degano, I. Subirana, L. Tavazzi, I. Kirchberger, D. Farmakis, J. Ferrieres, A. Azevedo, M. Torre, M. Davoli, C. Meisinger, V. Bongard, C. Araujo, J. Lekakis, R. Elosua, J. Marrugat (Madrid and Barcelona, ES; Cotignola and Rome, IT; Augsburg and Neuherberg, DE; Athens, GR; Toulouse, FR; Porto, PT)

How should we comprehend and treat the patients with type2 myocardial infarction? Insight from Tokyo CCU Network Registry.

P2290

– S. Higuchi, K. Miyauchi, M. Yamazaki, H. Tanaka, M. Yoshikawa, J. Yamashita, Y. Horiuchi, M. Suzuki, H. Iwata, M. Kishi, M. Saji, H. Yoshino, K. Nagao, T. Yamamoto, M. Takayama (Tokyo, JP)

Impact of chronic total occlusion in non-culprit coronary artery on short- and long-term mortality in STEMI patients treated with primary PCI.

P2291

– D. Milasinovic, S. Zaharijev, J. Dobras, A. Pavlovic, Z. Mehmedbegovic, V. Dedovic, M. Radomirovic, M. Stevanovic, S. Stankovic, M. Asanin, V. Vukoevic, G. Stankovic (Belgrade, RS)

BEST POSTERS IN NUCLEAR CARDIOLOGY

Discussant: Best Posters in nuclear cardiology.

P2292

– T.H. Schindler (Baltimore, US), J.M. Knuuti (Turku, FI)

The interrelation between updated Diamond and Forrester criteria, SPECT results and coronary calcium scores in patients with suspected stable coronary artery disease.

P2293

– M. Mouden, J.P. Ottervanger, S. Knollema, J.R. Timmer, P.L. Jager (Zwolle, NL)

The long-term prognostic value of SPECT MPI after primary PCI for STEMI.

P2294

– J.M. Smit, M.P. Hermans, A.R. Van Rosendaal, A.C. Dimitriu-Leen, P. Dibbets-Schneider, B.J. Mertens, J.J. Bax, A.J. Scholte (Leiden, NL)

Prognostic value of myocardial perfusion imaging with CZT SPECT camera in patients suspected for coronary artery disease.

P2295

– E.M. Engbers, J.R. Timmer, M. Mouden, S. Knollema, P.L. Jager, J.P. Ottervanger (Zwolle, NL)

Higher sensitivity of ⁸²Rubidium-PET in comparison to SPECT myocardial perfusion scintigraphy for the detection of three-vessel coronary artery disease.

P2296

– F. Hyafil, E. Sorbets, R. Chequer, G. Ducrocq, J. Abtan, R. Ben Azzouna, S. Leygnac, F. Rouzet, G. Montalescot, P.Y. Marie, D. Le Guludec (Paris, Bobigny and Vandoeuvre-lès-Nancy, FR)

BEST POSTERS IN HFPEF

- Discussant: Best Posters in HFpEF.** P2297
 – R. Wachter (Göttingen, DE), G.E. Osmankulova (Bishkek, KG)
- Multimarker panel of cardiac biomarkers in patients with heart failure and mid-range ejection fraction.** P2298
 – P. Moliner, J. Lupon, J. Barallat, M. De Antonio, J. Nunez-Villota, M. Domingo, E. Zamora, S. Altimir, C. Pastor, M. Rodriguez, M. Boldo, M. Puertas, M.I. Troya, V. Diaz, A. Bayes-Genis (Badalona and Valencia, ES)
- Impaired diastolic recovery before discharge is associated with re-hospitalization with hypertensive heart failure.** P2299
 – H.J. Yoon, K.H. Kim, J.Y. Cho, H.J. Park, J.C. Park (Gwangju, KR)
- Importance of structural heart disease and diastolic dysfunction in heart failure with preserved ejection fraction assessed according to the ESC guidelines.** P2300
 – D. Matan, H. Persson, E. Donal, L.H. Lund, E. Oger, C. Hage, J.-C. Daubert, C. Linde (Stockholm, SE; Rennes, FR)
- Effect of renin-angiotensin system inhibitors on mortality in heart failure with preserved ejection fraction: a meta-analysis.** P2301
 – H. Fukuta, T. Goto, K. Wakami, N. Ohte (Nagoya, JP)

BEST POSTERS IN METABOLIC SYNDROME, OBESITY AND NUTRITION

- Discussant: Best Posters in metabolic syndrome, obesity and nutrition.** P2302
 – Z. Kaifoszova (Prague, CZ), U. Laufs (Homburg, DE)
- Low serum triglyceride in combination with low total cholesterol levels associate increased risk of long-term all-cause mortality in patients undergoing percutaneous coronary intervention.** P2303
 – S.D. Doi, H.I. Iwata, R.N. Naito, H.E. Endo, H.W. Wada, H.K. Konishi, S.T. Tsuboi, M.O. Ogita, T.D. Dohi, T.K. Kasai, S.O. Okazaki, K.I. Isoda, K.M. Miyauchi, H.D. Daida (Tokyo, JP)
- Effects of weight management intervention on cardiometabolic risk factors in children and adolescents with obesity.** P2304
 – A. Starodubova, E. Pavlovskaya, T. Strokova, O. Kislyak, S. Kosyura (Moscow, RU)
- Repeated antibiotic exposure up to age 4 years is related to higher body mass at age 4.5 years: longitudinal findings from the growing up in New Zealand cohort.** P2305
 – C. Chelimo, S.M.B. Morton, C.C. Grant (Auckland, NZ)
- Impact of gender difference on abdominal fat accumulation and coronary artery disease severity stratified by computed tomography-derived SYNTAX score.** P2306
 – H. Yui, K. Otagiri, C. Nakamura, T. Sakai, H. Kitabayashi (Ina, JP)

BEST POSTERS IN CARDIAC REMODELLING

- Discussant: Best Posters in cardiac remodelling.** P2307
 – D. Hilfiker-Kleiner (Hannover, DE), J.L. Lopez-Sendon (Madrid, ES)
- Natural compound library screen identifies potent molecules with anti-fibrotic activity through modulation of noncoding RNAs.** P2308
 – K. Schimmel, K. Bock, L. Grote-Levi, K. Xiao, A. Pfanne, A. Just, S. Samolovac, K. Zimmer, J. Remke, R. Geffers, Q.T. Do, J.H. Braesen, S. Batkai, J. Fiedler, T. Thum (Hannover and Braunschweig, DE; Orléans, FR)
- PAK3 aggravates pathological cardiac hypertrophy in mice.** P2309
 – J. Xie, B. Xu (Nanjing, CN)
- Cardiac hypertrophy, fibrosis and diastolic dysfunction are attenuated upon administration of nitro oleic acid in a murine model of hypertensive heart disease.** P2310
 – S. Geissen, D. Mehrkens, A.K. Schaetzle, M. Mollenhauer, M. Adam, A. Klinke, S. Baldus, V. Rudolph (Cologne, DE)
- A novel HFpEF model has cardiac and pulmonary impairments similar to those in human HFpEF patients.** P2311
 – M. Wallner, R.M. Berretta, D.M. Eaton, G. Borghetti, J. Wu, S.T. Baker, C.D. Troupes, T.E. Sharp, E.A. Feldsott, M.A. Oyama, P.R. Fox, M.R. Wolfson, S.R. Houser (Philadelphia and New York, US)

BEST POSTERS IN TREATMENT OF HYPERTROPHIC CARDIOMYOPATHY

Discussant: Best Posters in treatment of hypertrophic cardiomyopathy. P2312
 – A.G. Rigopoulos (Schweinfurt, DE), R. Yotti (Madrid, ES)

Outcome of alcohol septal ablation in younger patients with obstructive hypertrophic cardiomyopathy. P2313
 – M. Liebrechts, L. Faber, M.K. Jensen, P.A. Vriesendorp, J. Januska, J. Krejci, P.R. Hansen, H. Seggewiss, D. Horstkotte, R. Adlova, H. Bundgaard, J.M. Ten Berg, J. Veselka (Nieuwegein and Rotterdam, NL; Bad Oeynhausen, DE; Copenhagen, DK; Trinec, Brno and Prague, CZ)

Mitral valve replacement at time of myectomy for hypertrophic obstructive cardiomyopathy. P2314
 – A. Singh, S. Agrawal, S. Saluja, S. Pakniyat, Y. Manda, S. Nanda, J. Shirani (Bethlehem, US)

The Portuguese registry of hypertrophic cardiomyopathy (PRO-HCM): global results. P2315
 – N. Cardim, D. Brito, L. Rocha Lopes, A. Freitas, C. Araujo, A. Belo, L. Goncalves, J. Mimoso, I. Olivotto, P. Elliott, H. Madeira (Lisbon, Amadora-Sintra, Vila-Real, Coimbra and Faro, PT; London, UK; Florence, IT)

Outcome of septal reduction therapies for obstructive hypertrophic cardiomyopathy in a high-flow referral centre with moderate volume procedural programmes. P2316
 – C. Fumagalli, L. Cavigli, A. Rossi, A. Arretini, M. Targetti, S. Passantino, F. Girolami, N. Maurizi, N. Marchionni, D. Antonucci, F. Cecchi, M.H. Yacoub, P. Stefano, I. Olivotto (Florence, IT; London, UK)

BEST POSTERS IN NEW TARGETS IN CARDIOVASCULAR DRUG ASSESSMENT

Discussant: Best Posters in new targets in cardiovascular drug assessment. P2317
 – D. Atar (Oslo, NO), G.M.C. Rosano (London, UK)

Individual-specific corrected QT interval (QTcI) obtained from ECGs recorded at fixed timepoints versus QTcI derived using a wider range of stable heart rates from 24-hour Holter recordings. P2318
 – R. Turner, G.K. Panicker, P. Kadam, S. Chakraborty, D.R. Karnad, S. Kothari (Durham, US; Mumbai, IN)

Initial clinical experience with AZD5718, a novel once daily oral 5-lipoxygenase activating protein (FLAP) inhibitor, intended for patients with coronary artery disease. P2319
 – S. Skrtic, C. Balendran, M. Bhat, L. Chialda, H. Ericsson, L.-M. Gan, M. Heijer, M. Kjaer, M. Lagerstrom-Fermer, J. Lambert, E.-L. Lindstedt, K. Nelander, C. Whatling (Mölnådal, SE; London, UK)

Lack of low-density lipoprotein cholesterol (LDL-C) goal attainment among high-risk patients using high or moderate intensity statin therapy in Germany. P2320
 – K.M. Fox, K. Kostev, C. Von Vultee, M. Hatz, M.-H. Tai, Y. Qian (Aiken and Thousand Oaks, US; Frankfurt, DE)

Role of ivabradine in development of new onset atrial fibrillation in acute coronary syndrome patients. P2321
 – A. Almaghraby, Y. Saleh, B. Hammad, M. Abdelnaby, A. El-Amin, M. Sanhoury, H. Badran (Alexandria and Cairo, EG; Boston, US; Milan, IT)

BEST POSTERS IN BRUGADA SYNDROME

Discussant: Best Posters in Brugada syndrome. P2322
 – P. Brugada Terradellas (Brussels, BE), T. Sichrovsky (Ridgewood, US)

Brugada syndrome in women. P2323
 – V. Probst, J.B. Gourraud, A. Thollet, J. Briand, R. Tixier, P. Berthome, O. Geoffroy, G. Laurent, J.L. Pasquie, J. Mansourati, D. Babuty, N. Behar, B. Guyomarch, F. Sacher, P. Mabo (Nantes, Rennes, Bordeaux-Pessac, Saint Denis de la Réunion, Dijon, Montpellier, Brest and Tours, FR)

A novel high risk ECG feature in Brugada Syndrome Probands: Localized QRS prolongation on right precordial leads. P2324
 – B. Hunuk, G. Mugnai, C. De Asmundis, V. Velagic, Y. Saitoh, G. Cioconte, G. Irfan, E. Stroker, E. Hacioglu, V. De Regibus, D. Moran, H.E. Coutino-Moreno, O. Cagac, G.B. Chierchia, P. Brugada (Brussels, BE; Antalya, TR)

Prevalence of type 1 Brugada electrocardiographic pattern evaluated on 12-lead 24-hour Holter monitoring in a large Brugada population. P2325
 – E. Gribaudo, C. Giustetto, G. Nangeroni, N. Cerrato, L. Biava, M. Andrichetti, F. Geuna, I. Landi, F. Gaita (Turin, IT)

Fever-induced arrhythmic events in Brugada syndrome; Data from the survey on arrhythmic events in Brugada syndrome (SABRUS) in 628 patients. P2326
 – A. Milman, A. Andorin, J. Champagne, J. Tfelt-Hansen, C. Veltmann, P. Delise, D. Corrado, E.R. Behr, F. Gaita, A.A.M. Wilde, P. Brugada, K. Hirao, G.B. Nam, V. Probst, B. Belhassen (Tel Aviv, IL; Nantes, FR; Quebec, CA; Copenhagen, DK; Hannover, DE; Veneto, Padua and Turin, IT; London, UK; Amsterdam, NL; Brussels, BE; Tokyo, JP; Seoul, KR)

BEST POSTERS IN STABLE CAD

Discussant: Best Posters in stable CAD.

P2327

– N.V. Deshpande (Nagpur, IN), L. Holmvang (Copenhagen, DK)

Performance of the ESC 0/1-hour algorithm for rapid rule-out and rule-in of acute myocardial infarction using high-sensitivity cardiac troponin I in patients with impaired and normal renal function.

P2328

– R. Twerenbold, M. Rubini Gimenez, T. Reichlin, J. Boeddinghaus, T. Nestelberger, T. Badertscher, C. Puelacher, O. Miro, F.J. Martin-Sanchez, B. Morawiec, S. Osswald, C. Mueller (Basel, CH; Barcelona and Madrid, ES)

The effect of cardiac risk factors on global coronary atherosclerosis burden among patients undergoing percutaneous coronary intervention: a multicenter three vessel optical coherence tomography study.

P2329

– T. Zanchin, T. Sugiyama, E. Yamamoto, L. Xing, K. Bryniarski, H. Lee, I.K. Jang (Boston, US)

Risk of adverse cardiac events in patients undergoing surgery after coronary drug-eluting stent implantation for acute coronary syndrome and stable angina pectoris.

P2330

– G. Egholm, T. Thim, K.K.W. Olesen, M. Madsen, S.E. Jensen, L.O. Jensen, H.E. Boetker, S.D. Kristensen, M. Maeng (Aarhus, Aalborg and Odense, DK)

Association between serum osmolality and acute kidney injury after percutaneous coronary intervention: a simple tool for acute kidney injury prediction.

P2331

– S. Farhan, B. Vogel, U. Baber, S. Sartori, S. Sorrentino, B. Nitin, P. Vijay, J. Kovacic, J. Sweeny, P. Moreno, G. Giustino, G.D. Dangas, R. Mehran, A. Kini, S. Sharma (New York, US)

Posters are on display from 14:00 to 18:00. Presenters will be by their poster during the coffee break between 15:30 and 16:30 for posters viewing time.

CORONARY MORPHOLOGY AND FUNCTIONAL ASSESSMENT (1)

Association between internal running vasa vasorum in optical coherence tomography and slow flow during percutaneous coronary intervention. P2332

– H. Amano, D. Saito, T. Yabe, I. Watanabe, M. Koizumi, R. Okubo, M. Toda, T. Ikeda (Tokyo, JP)

Characteristics of earlier versus delayed presentation of very late drug-eluting stent thrombosis: an optical coherence tomographic study. P2333

– S.-Y. Lee, J.-M. Ahn, D.-H. Shin, C.-M. Ahn, J.-S. Kim, B.-K. Kim, Y.-G. Ko, D.-H. Choi, Y.-S. Jang, S.-J. Park, M.-K. Hong (Gunpo and Seoul, KR)

Association between cholesterol efflux capacity and coronary plaque lipid composition on near infrared spectroscopy. P2334

– K. Takata, S. Honda, S. Sidharta, M. Duong, D. Shishikura, S. Kim, J. Andrews, B.A. Di Bartolo, J. Butters, P.J. Psaltis, M.I. Worthley, S.J. Nicholls (Adelaide, AU)

Clinical impact of pre- and poststent optical coherence tomography findings on device-oriented adverse events in patients with acute coronary syndrome. P2335

– E. Usui, T. Yonetsu, T. Lee, T. Murali, Y. Kanaji, M. Hoshino, M. Yamaguchi, T. Niida, M. Hada, S. Ichijo, R. Hamaya, Y. Kanno, T. Kakuta (Tsuchiura, JP)

Dynamic changes in non-culprit coronary atherosclerotic lesion morphology: a longitudinal OCT study. P2336

– A. Karanasos, B.C. Zhang, J. Van Der Sijde, N. Van Ditzhuijzen, K. Witberg, J. Ligthart, M. Gnanadesigan, R. Diletti, R.J. Van Geuns, G. Van Soest, J. Dijkstra, F. Zijlstra, E. Regar (Rotterdam and Leiden, NL)

The impact of acute coronary syndrome on late drug-eluting stents restenosis: insights from optical coherence tomography. P2337

– S. Wu, Y.J. Zhou, W. Liu, Y.H. Guo, R.F. Liu, Z.M. Zhou, D.M. Shi, Z.J. Wang (Beijing, CN)

Association of high-risk plaque morphology and hemodynamic significance of coronary artery stenosis. P2338

– Y. Matsuo, D. Higashioka, T. Kubo, T. Nishiguchi, Y. Ozaki, A. Kuroi, T. Kameyama, T. Yamano, Y. Ino, H. Kitabata, T. Yamaguchi, K. Takemoto, A. Tanaka, T. Hozumi, T. Akasaka (Wakayama and Tanabe, JP)

Comparison of the non-culprit plaque phenotype in patients with ruptured vs. eroded culprit plaque: a three-vessel optical coherence tomography imaging study. P2339

– T. Sugiyama, T. Zanchin, K. Bryniarski, E. Yamamoto, L. Xing, I.K. Jang (Boston, US)

Impact of optical coherence tomography findings during percutaneous coronary intervention on 2-year clinical outcomes: comparison between stable angina pectoris and acute coronary syndrome. P2340

– K. Sogabe, M. Kuroda, M. Takigami, M. Kawata, A. Matsuura, K. Adachi, Y. Hirayama, K. Kamemura, T. Matsuura, A. Matsumoto, Y. Kato, M. Kodaira, M. Kintsu, S. Sakamoto (Hyogo, JP)

Low endothelial shear stress predicts high-risk evolution of coronary plaque phenotype in the future - a serial optical coherence tomography (OCT) and computational fluid dynamics (CFD) study. P2341

– E. Yamamoto, G. Siasos, M. Zaromytidou, A.U. Coskun, L. Xing, K. Bryniarski, T. Zanchin, T. Sugiyama, H. Lee, P.H. Stone, I.K. Jang (Boston, US)

Plaque characterization by MSCT coronary angiography in native, “true” non-left main coronary bifurcation may be useful for guiding PCI procedures. P2342

– I. Ilic, R. Vidakovic, A. Janicijevic, M. Stefanovic, S. Kafedzic, M. Cerovic, D. Milicevic, G. Obradovic, V. Jovanovic, I. Stankovic, B. Putnikovic, A.N. Neskovic (Belgrade, RS)

Is there racial difference in coronary plaque characteristics between white versus east Asians? P2343

– K.L. Bryniarski, E. Yamamoto, L. Xing, T. Zanchin, T. Sugiyama, H. Lee, I.K. Jang (Boston, US)

Quantitative and qualitative plaque analysis for prediction of no-reflow phenomenon during elective coronary intervention. P2344

– T. Takii, S. Namiuchi, K. Sato, R. Ushigome, T. Sugie, S. Yoshida, A. Kato (Sendai, JP)

Characteristics of stent thrombosis in bifurcation lesions analyzed by optical coherence tomography. P2345

– M.Y. Bechiri, G. Souteyrand, P. Motreff, L. Mangin, G. Range, S. Levesque, N. Meneveau, T. Lefevre, C. Trouillet, C. Caussin, N. Amabile (Paris, Clermont-Ferrand, Annecy, Chartres, Poitiers, Besançon, Massy and La Rochelle, FR)

Relationship between coronary plaque composition and functional lesion severity in patients with stable angina pectoris. P2346

– H. Takashima, A. Kurita, H. Ando, S. Sakurai, A. Suzuki, Y. Saka, H. Sawada, M. Shimoda, T. Amano (Aichi, JP)

CORONARY MORPHOLOGY AND FUNCTIONAL ASSESSMENT (2)

Effects of DPP4 inhibitor Linagliptin on atherosclerotic lesions in Watanabe Heritable Hyperlipidemic rabbit. P2347

– T. Kurosawa, Y. Li, T. Hiro, H. Haruta, A. Hirayama (Tokyo, JP)

Long-term vessel healing response to first-generation versus second-generation drug-eluting stents in acute coronary syndrome assessed by optical coherence tomography. P2348

– Y. Kato, M. Kuroda, K. Sogabe, M. Kawata, A. Matsuura, K. Adachi, Y. Hirayama, K. Kamemura, T. Matsuura, A. Matsumoto, M. Takigami, M. Kodaira, M. Kintsu, S. Sakamoto (Akashi, JP)

- Right lateral vs. left lateral view in transradial procedures - an operator radiation exposure and image quality study.** P2349
 – E. Rodriguez Gonzalez, M. Castanedo Alvarez, E. Leon Aliz, J. Benitez Peyrat, J.F. Oteo, M. Hernandez Hernandez, A. Montes Uruen, J. Gorigolzarri Artaza, M.A. Restrepo Cordoba, X. Pifarre Martinez, J. Goicolea Ruigomez, A. Garcia Touchard (Madrid, ES)
- Real-time optical coherence tomography co-registration with angiography to optimize percutaneous coronary intervention: results of the OPTICO-Integration study.** P2350
 – L. Steinbeck, M. Riedel, B. Staehli, G. Froehlich, A. Lauten, C. Skurk, H.C. Mochmann, L. Luebking, U. Rauch-Kroehnert, R. Schnabel, D. Westermann, S. Blankenberg, U. Landmesser, D. Leistner (Berlin and Hamburg, DE)
- Spatial distribution of macrophage accumulation within coronary arterial wall in diabetic versus non-diabetic patients with acute coronary syndrome: a study with multi-intravascular imaging modalities.** P2351
 – T. Kogo, T. Hiro, T. Tamaki, T. Mineki, K. Kojima, Y. Yuzawa, N. Murata, K. Iida, N. Akutsu, T. Oshima, H. Haruta, D. Fukamachi, T. Takayama, A. Hirayama (Tokyo, JP)
- Comparison of neointimal appearance assessed by optical coherence tomography between bare-metal stents and sirolimus-eluting stents beyond 10 years from implantation.** P2352
 – M. Hada, T. Yonetsu, Y. Kanno, S. Ichijo, R. Hamaya, T. Niida, M. Yamaguchi, M. Hoshino, E. Usui, Y. Kanaji, T. Murai, T. Kakuta (Tsuchiura, JP)
- Advantage and accuracy of a new jailed pressure wire technique using an optical fiber for coronary bifurcation lesions after post dilatation of stent by high pressure.** P2353
 – O. Hiroyuki, Y. Kawase, T. Tanigaki, H. Matsuo (Gifu, JP)
- Optical coherence tomography findings in non-culprit lesions in patients with ST-segment elevation myocardial infarction.** P2354
 – M. Garcia-Guimaraes, T. Bastante, R. Maruri, J. Cuesta, F. Rivero, F. Alfonso (Madrid, ES)
- Dual quantitative coronary angiography accurately quantifies intracoronary thrombotic burden in patients with acute coronary syndrome: comparison with frequency-domain optical coherence tomography.** P2355
 – I. Porto, R. Vergallo, G.L. De Maria, D. D'Amario, G. Annibali, G. Buccimazza, S. Migliaro, F. Pescetelli, A.P. Banning, F. Crea (Rome, IT; Oxford, UK)
- Comparison between functional and intravascular imaging approach guiding percutaneous coronary intervention: a network meta-analysis of randomized and propensity matching studies.** P2356
 – U. Annone, M. Abdirashid, M. Iannacone, F. D'Ascenzo, F. Gaita (Turin, IT)
- Measurement of coronary artery compliance and stiffness index with novel application of optical coherence tomography in re-pressurised cadaveric coronary arteries.** P2357
 – K.A. Adnan, C. Robinson, M.J. Biggs, B. Morgan, G.N. Rutty, A. Borsen, J. Dijkstra, P. Kitslaar, D.A. Adlam (Leicester, UK; Leiden, NL)
- Coronary vessel responses after paclitaxel-coated balloon in diabetic patients did not differ from those in non-diabetic patients: serial volumetric intravascular ultrasound analysis.** P2358
 – Y. Takeda, S. Morishita, T. Kasahara, T. Kawai, Y. Nakatani, R. Muraki, S. Yamashita (Osaka, JP)
- Impact of baseline plaque characteristic before stenting on development of neoatherosclerosis in very late phase.** P2359
 – M. Hoshino, T. Yonetsu, T. Murai, Y. Kanaji, E. Usui, M. Yamaguchi, T. Niida, M. Hada, S. Ichijo, R. Hamaya, Y. Kanno, T. Lee, T. Kakuta (Tsuchiura, JP)
- “Luminal surface plaque area”: a novel and robust OCT parameter for coronary plaque analysis.** P2360
 – S. Otto, K. Nitsche, A. Kryvanos, B. Goebel, M. Franz, P.C. Schulze, T.C. Poerner (Jena and Mannheim, DE)
- CORONARY MORPHOLOGY AND FUNCTIONAL ASSESSMENT (3)**
- Impact of lesion complexity on long-term vascular response to cobalt-chromium everolimus-eluting stent: five-year follow-up optical coherence tomography study.** P2361
 – S. Kuramitsu, S. Sonoda, T. Shinozaki, H. Jinnouchi, Y. Muraoka, T. Domei, M. Hyodo, S. Shirai, K. Ando, Y. Otsuji (Kitakyushu and Tokyo, JP)
- SYNTAX score is positively correlated with intravascular ultrasound and near-infrared spectroscopy for the assessment of atherosclerotic burden in patients with stable coronary artery disease.** P2362
 – M.M. Vroegindewey, A.S. Schuurman, I. Kardys, S. Anroedh, R.M. Oemrawsingh, J. Ligthart, H.M. Garcia-Garcia, R.J. Van Geuns, E. Regar, N. Van Mieghem, P.W. Serruys, H. Boersma, K.M. Akkerhuis (Rotterdam, NL; Washington, US; London, UK)
- Predictors of recurrent acute coronary syndromes: insights from optical coherence tomography.** P2363
 – F. Fracassi, R.A. Montone, V. Vetrugno, F. Rettura, F. Vergni, M. Russo, C. Trani, G. Niccoli, F. Crea (Rome, IT)
- Usefulness of blood speckle intensity on intravascular ultrasound for prediction of periprocedural myocardial injury.** P2364
 – Y. Okuya, Y. Saito, H. Kitahara, T. Nakayama, Y. Fujimoto, Y. Kobayashi (Chiba, JP)
- Early vascular responses after everolimus-eluting stent implantation assessed by serial observations of intracoronary optical coherence tomography.** P2365
 – H. Yano, S. Horinaka, T. Ishimitsu (Tochigi, JP)
- Extent and distribution of neoatherosclerosis in multiple stents with overlap.** P2366
 – M. Yamaguchi, Y. Kanno, S. Ichijo, M. Hada, T. Niida, M. Hoshino, E. Usui, Y. Kanaji, T. Murai, T. Yonetsu, T. Kakuta (Tsuchiura, JP)
- The impact of systemic pentraxin-3 values on coronary plaque components by optical coherence tomography and outcomes in patients with stable angina pectoris.** P2367
 – S. Kimura, S. Nakamura, S. Nakagama, K. Hayasaka, T. Misawa, M. Mizusawa, Y. Yamakami, K. Kojima, Y. Sagawa, H. Ohtani, K. Hishikari, T. Sugiyama, H. Hikita, A. Takahashi (Yokosuka, JP)

- Analysis of transradial coronary intervention on the radial artery by optical coherence tomography.** P2368
– S.J. Camacho Freire, P. Gomez Fernandez, J. Landero Garcia, J. Leon Jimenez, M.E. Gracia Hiraldo, I. Sanchez Fernandez, E. Bobo Masso, A.E. Gomez Menchero, J. Roa Garrido, R. Cardenal Piris, J.F. Diaz Fernandez (Huelva, ES)
- Association of skin autofluorescence with plaque vulnerability evaluated by optical coherence tomography in patients with cardiovascular disease.** P2369
– Y. Fujino, S.T. Tahara, M.T. Tada, H.Y. Yabushita, T.N. Naganuma, K.T. Tanaka, H.I. Ishiguro, S.N. Nakamura, S.Y. Yamagishi, W.W. Wang (Matsudo and Kurume, JP; Jackson, US)
- Fractional flow reserve post percutaneous coronary intervention for chronic total occlusions.** P2370
– G. Karamasis, S.R. MohdNazri, F. Al-Janabi, J. Dunga, S. Gedela, J. Hampton-Till, K.H. Tang, J.E. Davies, P.A. Kelly, J.R. Davies, T.R. Keeble (Basildon and London, UK)
- iFR diagnostic accuracy using FFR as gold standard: insights from a 5-year experience.** P2371
– A.R. Gaspar Lopes Francisco, M.N. Menezes, G. Lima Da Silva, I.S. Goncalves, J. Rigueira, P. Carrilho Ferreira, C. Jorge, E. Infante De Oliveira, D. Torres, P. Cardoso, F.J. Pinto, P. Canas Da Silva (Lisbon, PT)
- Can we rely on iFR for avoiding FFR? Conclusions of a 5-year experience.** P2372
– M. Nobre Menezes, A.R.G. Francisco, J. Agostinho, P. Carrilho Ferreira, C. Jorge, D. Torres, P. Cardoso, E. Infante De Oliveira, P. Canas Da Silva, F.J. Pinto (Lisbon, PT)
- Long-term outcome of coronary lesions with deferred revascularization due to negative fractional flow reserve.** P2373
– J. Weerts, E. Amin, M. Ilhan, L.F. Veenstra, R.A.L.J. Theunissen, J. Vainer, L.W. Ruiters, G.V.A. Van Ommen, J.C.A. Hoorntje, S. Rasoul (Maastricht, NL)
- Continuous thermodilation for the assessment of coronary microvasculature: quantification of coronary blood flow and microvascular resistance.** P2374
– P.X. Xaplanteris, J. Adjedj, V. Flore, G. Toth, A. Milkas, G. Ciccarelli, E. Barbato, M. Van't Veer, N. Pijls, B. De Bruyne (Aalst, BE; Eindhoven, NL)
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18:30–19:15 | Dali - The Hub

THE CARDIOLOGIST'S PERSPECTIVE ON PULMONARY ARTERIAL HYPERTENSION (PAH) AND CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION (CTEPH) Satellite Symposium

Sponsored by MSD

Chairperson(s): S. Rosenkranz (Cologne, DE)

- 18:30 **Introduction - The cardiologist's perspective on pulmonary arterial hypertension and CTEPH.** 2781
– S. Rosenkranz (Cologne, DE)
- 18:35 **The cardiologist's perspective on pulmonary arterial hypertension and CTEPH.** 2782
– S. Rosenkranz (Cologne, DE)

18:30–19:15 | Gaudi - The Hub

THE NOVEL ORAL ANTICOAGULANTS (NOACS)... FROM CLINICAL THEORY TO CLINICAL PRACTICE – THE VALUE OF CONSISTENCY OF OUTCOME Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): A.J. Camm (London, UK); C.I. Coleman (Suffield, US)

- 18:30 **Opening remarks - The NOACS... From clinical theory to clinical practice - The value of consistency of outcome.** 2783
– M. Patel (Durham, US)
- 18:35 **Interpreting database analyses.** 2784
– C.I. Coleman (Suffield, US)
- 18:50 **From study to the clinic... Does consistency of outcome matter.** 2785
– J. Beyer-Westendorf (Dresden, DE), A.J. Camm (London, UK), M. Patel (Durham, US), C.I. Coleman (Suffield, US)
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18:30–19:15 | Miro - The Hub

PROPROTEIN CONVERTASE SUBTILISIN/KEXIN TYPE 9 (PCSK9) INHIBITORS: THE NEXT CHAPTER IN CVD PREVENTION Satellite Symposium

Sponsored by Amgen GmbH

Chairperson(s): J. Chapman (Paris, FR)

- 18:30 **PCSK9 inhibitors: the story continues.** 2787
– J. Chapman (Paris, FR)
- 18:40 **Challenging the data.** 2788
– J. Chapman (Paris, FR), P.S. Sever (London, UK)
- 19:10 **PCSK9 inhibitors: more volumes to come?** 2789
– J. Chapman (Paris, FR)

18:30–20:00 | Skopje - Village 5

Today on ESC TV

EXPANDING OUR KNOWLEDGE OF NOACS IN SPAF: FROM EVIDENCE TO ENHANCED PATIENT OUTCOMES Satellite Symposium

Sponsored by Bristol-Myers Squibb and Pfizer Alliance

Chairperson(s): J.L. Zamorano Gomez (Madrid, ES)

- 18:30 **Evolving patient care in SPAF: challenges met and questions remaining.** 2790
– J.L. Zamorano Gomez (Madrid, ES)
- 18:50 **The patient in focus: the fragile atrial fibrillation (AF) patient.** 2791
– S. Halvorsen (Oslo, NO)
- 19:10 **The patient in focus: AF patient with concomitant heart conditions.** 2792
– S.H. Hohnloser (Frankfurt, DE)
- 19:30 **Living up to expectations: patient outcomes with NOACs in clinical practice.** 2793
– G.Y.H. Lip (Birmingham, UK)
- 19:50 **Panel discussion - Expanding our knowledge of NOACs in SPAF: from evidence to enhanced patient outcomes.** 2794
– J.L. Zamorano Gomez (Madrid, ES)

Complementary Satellite Symposium - Experts on the Spot session scheduled on Monday 28 August, 10:15–10:45 in Picasso - The Hub.

18:30–20:00 | Bucharest - Village 8

PSCK9 INHIBITION: A NEW HORIZON IN LDL-C MANAGEMENT

Satellite Symposium

Sponsored by Sanofi and Regeneron

Chairperson(s): C.P. Cannon (Boston, US); A. Catapano (Milan, IT)

18:30	Introduction - PSCK9 inhibition: a new horizon in LDL-C management.	2795
	– C.P. Cannon (Boston, US)	
18:35	LDL-C exposure and atherosclerosis progression.	2796
	– A. Catapano (Milan, IT)	
18:50	PCSK9 inhibition: the data today and tomorrow.	2797
	– S.J. Nicholls (Adelaide, AU)	
19:05	Learnings and clinical insights from SPIRE.	2798
	– P.M. Ridker (Boston, US)	
19:15	Guidelines: commonalities and discrepancies.	2799
	– J. Robinson (Iowa City, US)	
19:25	Identifying appropriate patients to treat: a case-based approach.	2800
	– C.P. Cannon (Boston, US), A. Catapano (Milan, IT), S.J. Nicholls (Adelaide, AU), P.M. Ridker (Boston, US), J. Robinson (Iowa City, US)	
19:55	Concluding remarks - PSCK9 inhibition: a new horizon in LDL-C management.	2801
	– A. Catapano (Milan, IT)	

Complementary Satellite Symposia - Experts on the Spot sessions scheduled on Monday 28 August, 15:45–16:15 in Picasso - The Hub and on Tuesday 29 August, 10:15–10:45 in Goya - The Hub.

18:30–19:30 | Lisbon - Village 9

RAISING TREATMENT STANDARDS FOR ANGINA PATIENTS

Satellite Symposium

Sponsored by SERVIER

Chairperson(s): P.E. Vardas (Heraklion, GR); P.G. Camici (Milan, IT)

18:30	Introduction - Raising treatment standards for angina patients.	2802
	– P.E. Vardas (Heraklion, GR)	
18:35	Beyond coronary artery bypass grafting and percutaneous coronary intervention: the challenges of optimal medical therapy.	2803
	– V. Fuster (New York, US)	
18:45	Acting on heart rate and beyond.	2804
	– P.G. Camici (Milan, IT)	
18:55	Key insights for clinical practice.	2805
	– G.M.C. Rosano (London, UK)	
19:05	Discussion - Raising treatment standards for angina patients.	2806
	– P.G. Camici (Milan, IT), V. Fuster (New York, US), G.M.C. Rosano (London, UK), P.E. Vardas (Heraklion, GR)	
19:25	Conclusion - Raising treatment standards for angina patients.	2807
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Complementary Satellite Symposium - Experts on the Spot session scheduled on Monday 28 August, 10:15–10:45 in Gaudi - The Hub.



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07:30–08:15 | Dali - The Hub

HYPERTENSION IN CANCER

Cardiology@breakfast

Chairperson(s): J. Brguljan (Ljubljana, SI)

07:30 **Hypertension in patients with tyrosine kinase inhibitors.** 2808

– M.L. Muesan (Brescia, IT)

07:52 **Other causes of hypertension in cancer.** 2809

– T.M. Suter (Bern, CH)

07:30–08:15 | Gaudi - The Hub

ENDOCARDITIS IN A NUTSHELL

Cardiology@breakfast

Chairperson(s): P. Tornos Mas (Barcelona, ES)

07:30 **Diagnosing endocarditis with modern tools.** 2810

– G. Habib (Marseille, FR)

07:52 **Endocarditis - When to operate?** 2811

– T.K. Lauridsen (Copenhagen, DK)

07:30–08:15 | Goya - The Hub

PLANNING AND DEVELOPING YOUR EARLY CAREER AS A SCIENTIST

Scientists of Tomorrow

Science@breakfast

Cardiology@breakfast

Chairperson(s): G. Vilahur Garcia (Barcelona, ES)

07:30 **Lab management: how to build an independent team.** 2812


– N. Voigt (Göttingen, DE)

07:52 **Career-life balance for female scientists.** 2813

– S. Ljubojevic (Graz, AT)

07:30–08:15 | Miro - The Hub

WOMEN IN INTERVENTION

Today on ESC TV 

Cardiology@breakfast

Chairperson(s): M.C. Morice (Massy, FR)

07:30 **Planning an interventional career as a woman - The clinical side.** 2814

– J. Mehilli (Munich, DE)

07:52 **Planning a interventional career as a woman - The scientific side.** 2815

– J.J. Wykrzykowska (Abcoude, NL)

07:30–08:15 | Picasso - The Hub

RUDE AWAKENINGS IN SYNCOPE EVALUATION

Cardiology@breakfast

Chairperson(s): R.A. Kenny (Dublin, IE)

07:30 **Syncope: my worst mistake.** 2816

– R. Sutton (Monte Carlo, MC)

07:52 **Syncope: my greatest surprise.** 2817

– M. Brignole (Lavagna, IT)

07:30–08:15 | Agora 2 - Agora

ARTIFICIAL INTELLIGENCE – SMARTPHONE APPS AND NEW TECHNOLOGIES (FOR USE IN CLINICAL PRACTICE)

Cardiologists of Tomorrow

Cardiology@breakfast

Chairperson(s): N. Bruining (Rotterdam, NL)

07:30 **Must-have apps for docs.** 2818

– R.C. Vidal Perez (Santiago de Compostela, ES)

07:52 **Breakthrough inventions - New technologies on the horizon.** 2819

– P.P. Sengupta (Morgantown, US)

08:30–10:00 | Barcelona - Main Auditorium

ESC Clinical Practice Guidelines

ESC GUIDELINES 2017 – VALVULAR HEART DISEASE

Main Session

Chairperson(s): V. Falk (Berlin, DE); J.L. Zamorano Gomez (Madrid, ES)

08:30	Aortic valve disease. – H. Baumgartner (Münster, DE)	2820
08:52	Mitral valve disease. – R. Rosenhek (Vienna, AT)	2821
09:15	Tricuspid valve disease. – M. De Bonis (Milan, IT)	2822
09:37	Prosthetic valves. – B. Iung (Paris, FR)	2823

08:30–10:00 | Spotlight Stage

Today on ESC TV

Vote & Ask a Question

BLOOD PRESSURE TARGETS: IS 120 TOO LOW?

Great Debate

Chairperson(s): D. Gaita (Timisoara, RO); C. Borghi (Bologna, IT)

08:30	Positioning the topic - Current blood pressure targets. – L.M. Ruilope (Madrid, ES)	2824
08:45	Blood pressure should be lowered “as low as possible” - PRO. – P.K. Whelton (New Orleans, US)	2825
09:05	Blood pressure should be lowered “as low as possible” - CON. – A.M. Heagerty (Manchester, UK)	2826
09:25	Blood pressure should be lowered “as low as possible” - Rebuttal PRO. – P.K. Whelton (New Orleans, US)	2827
09:30	Blood pressure should be lowered “as low as possible” - Rebuttal CON. – A.M. Heagerty (Manchester, UK)	2828
09:35	Blood pressure targets: is 120 too low? Moderated discussion.	2829
09:50	Blood pressure targets: is 120 too low? Conclusion. – C. Borghi (Bologna, IT)	2830

08:30–10:00 | Dali - The Hub

PERCUTANEOUS CARDIOVASCULAR INTERVENTIONS

Symposium

Joint with The Lancet

Chairperson(s): S. Spencer (London, UK); W. Wijns (Brussels, BE)

08:30	Coronary stents, scaffolds and balloon. – R.A. Byrne (Munich, DE)	2831
08:52	Intravascular imaging. – G.S. Mintz (Washington, US)	2832
09:15	Haemodynamic lesions. – E. Barbato (Aalst, BE)	2833
09:37	Antithrombotic therapy. – F.W.A. Verheugt (Amsterdam, NL)	2834

08:30–10:00 | Gaudi - The Hub

WHEN THE ENGINE FAILS – CHALLENGING HEART FAILURE CASES

Clinical Cases

Chairperson(s): M. Komajda (Paris, FR); M.D. Drozd (Wroclaw, PL)

08:30	Complications and management of pregnancy in Danon disease. – N. Narula (New York, US)	2835
08:42	A hidden genetic cause of dilated cardiomyopathy. – S. Cuenca (Madrid, ES)	2836
08:55	Unusual large coronary arteriovenous fistula in a previously high performance athlete. – L.A. Mandes (Constanta, RO)	2837
09:08	When your past catches up with you: Stress cardiomyopathy triggered by acute upper airway obstruction in the setting of an atrial septal defect and coronary arterio-luminal shunts. – S. Martin (Randwick, AU)	2838
09:21	Dilated cardiomyopathy as the first presentation of coeliac disease: rare association or causation? – P.A. Patel (Leeds, UK)	2839
09:34	Right ventricular failure due to acute thrombosis of the ascending aorta: successful treatment by right ventricular assist device. – A. Kovacs (Budapest, HU)	2840
09:47	Reversal of cardiac remodelling after treatment of IgG4 related cholangitis. – Z.H. Wei (Nanjing, CN)	2841

08:30–10:00 | Goya - The Hub

Scientists of Tomorrow

KEEP CALCIUM SIGNALLING UNDER CONTROL TO PREVENT HEART FAILURE

Symposium

Chairperson(s): J. Fauconnier (Montpellier, FR); S. Sossalla (Regensburg, DE)

- | | | |
|-------|--|------|
| 08:30 | Calcium regulation and signal transduction in cardiac fibroblasts.
– S. Lutz (Mannheim, DE) | 2842 |
| 08:52 | EPAC: a new therapeutic target to control calcium signalling?
– F. Lezoualc'h (Toulouse, FR) | 2843 |
| 09:15 | IP3 receptor and calcium signalling in heart failure.
– L. Roderick (Leuven, BE) | 2844 |
| 09:37 | Gene therapy to target calcium cycling in heart failure.
– R.J. Hajjar (New York, US) | 2845 |

08:30–10:00 | Miro - The Hub

My NCS ESC GiP

HYPERTROPHIC CARDIOMYOPATHY – THE “BIG PICTURE”

Special Session

Organised with the French Society of Cardiology

Chairperson(s): T. Damy (Créteil, FR); E. Donal (Rennes, FR)

- | | | |
|-------|---|------|
| 08:30 | What is hidden behind this thick heart?
– D. Mohty (Limoges, FR) | 2846 |
| 08:40 | Top ten messages of the latest ESC Guidelines on hypertrophic cardiomyopathy.
– N. Mansencal (Boulogne-Billancourt, FR) | 2847 |
| 08:55 | Registry and survey information from France: problems and opportunities in improving care for hypertrophic cardiomyopathy.
– P. Charron (Paris, FR) | 2848 |
| 09:15 | New since the last Guidelines: recent scientific developments in hypertrophic cardiomyopathy.
– O. Huttin (Nancy, FR) | 2849 |
| 09:35 | Clinical case.
– D. Bodez (Paris, FR) | 2850 |
| 09:45 | Moderated panel discussion: what is most important to optimise clinical management of hypertrophic cardiomyopathy.
– T. Damy (Créteil, FR), P. de Groot (Lille, FR), E. Donal (Rennes, FR), P.M. Elliott (London, UK), A.A. Hagege (Paris, FR), A. Linhart (Prague, CZ) | 2851 |

08:30–10:00 | Picasso - The Hub

IMPACT OF OBESITY ON CARDIOVASCULAR PROGNOSIS: NEW DATA

Rapid Fire Abstract

Chairperson(s): P. Marques-Vidal (Lausanne, CH); M. Kayikcioglu (Izmir, TR)

- 08:30 **Genetic and environmental effects on eutopic and ectopic adipose tissue quantities: a classical twin study.** 2852
 – P. Maurovich-Horvat, M. Kolossvary, A.L. Jermendy, J. Karady, Z.D. Drobni, A.D. Tarnoki, D.L. Tarnoki, B. Merkely, G. Jermendy (Budapest, HU)
- 08:39 **Poor adherence to mediterranean diet is independently associated with the severity of coronary artery disease - contemporary data from the INTERCATH study.** 2853
 – C. Waldeyer, F.J. Brunner, M. Seiffert, R. Kohsiack, B. Schrage, C. Sinning, M. Karakas, T. Zeller, D. Westermann, S. Blankenberg, K. Sydow, R.B. Schnabel (Hamburg, DE)
- 08:48 **The association between obesity, diabetes control, and cardiovascular outcomes: insights from the TECOS trial.** 2854
 – N. Pagidipati, Y. Zheng, J.B. Green, D.K. McGuire, R.J. Mentz, S. Shah, P. Aschner, T. Delibasi, H.W. Rodbard, C.M. Westerhout, R.R. Holman, E.D. Peterson (Durham, Dallas and Rockville, US; Edmonton, CA; Bogota, CO; Ankara, TR; Oxford, UK)
- 08:57 **Anthropometric measures of obesity, prevalent coronary atherosclerosis and long term cardiovascular outcomes.** 2855
 – B. Shivalkar, K. Wollaert, G. Ennekens, E. Roelant, R. Salgado, C. Moerenhout, H. Heidebuchel, C. Vrints (Antwerp, BE)
- 09:06 **Dose-response relationship between the risk of vasovagal syncope and body mass index.** 2856
 – T. Yamada, S. Yanagimoto (Tokyo, JP)
- 09:15 **Weight loss and blood pressure after bariatric surgery or intensive lifestyle modification.** 2857
 – J. Sundstrom, S. Nowrouzi, G. Bruze, J. Ottosson, C. Marcus, I. Naslund, M. Neovius (Uppsala, Stockholm and Örebro, SE)
- 09:24 **Impaired right ventricular function denote a worse physical performance and preclinical pulmonary hypertension in obese patients with essential hypertension and preserved ejection fraction.** 2858
 – G. Trapani, S. Quartuccio, R. Pardeo, C. Zito, G. Lizio, G. Mandraffino, A. Saitta, E. Imbalzano (Messina, IT)
- 09:33 **The impact of visceral adiposity on the progression of coronary artery calcification assessed by computed tomography in Korean population.** 2859
 – H.S. Lee, S.A. Lee, H.E. Park, S.Y. Choi (Seoul, KR)
- 09:42 **The association between carotid plaque burden and adiposity: results from a large population-based study.** 2860
 – Y. Imahori, E.B. Mathiesen, K.E. Morgan, L.A. Hopstock, N. Emaus, L. Jorgensen, S.H. Johnsen, A.D. Hughes, D.A. Leon (London, UK; Tromsø, NO)
- 09:51 **Role of glycemic state for the relationship between abdominal obesity and markers of inflammation and hemostasis in the population.** 2861
 – A. Leuschner, N. Arnold, A. Pinto, V.H. Schmitt, A. Schulz, H. Spronk, C. Juenger, J. Prochaska, H. Binder, N. Pfeiffer, M. Beutel, K.J. Lackner, H. Ten Cate, T. Muenzel, P.S. Wild (Mainz, DE; Maastricht, NL)

08:30–10:00 | Agora 1 - Agora

ANTITHROMBOTIC STRATEGIES IN CORONARY ARTERY DISEASE

Rapid Fire Abstract

Chairperson(s): P.M. Clemmensen (Nykobing, DK); A.S. Zaki (Alexandria, EG)

- 08:30 **Antithrombotic treatment in patients with stable CAD and AF - 5-year follow-up data from the CLARIFY registry.** 2862
 – R. Wakili, K. Rizas, N. Greenlaw, P.G. Steg, S. Kaeab (Munich, DE; Glasgow, UK; Paris, FR)
- 08:39 **Application of DAPT score to predict ischaemic and bleeding events in patients who underwent drug-eluting stent implantation: a landmark analysis of large pooled cohort.** 2863
 – Y. Yoshikawa, H. Shiomii, H. Watanabe, M. Natsuaki, H. Kondo, T. Tamura, T. Morimoto, Y. Nakagawa, T. Kimura (Kyoto, Fukuoka, Tenri and Nishinomiya, JP)
- 08:48 **Growth differentiation factor 15 and bleeding risk with ticagrelor in patients with prior myocardial infarction: insights from PEGASUS-TIMI 54.** 2864
 – M. Bonaca, P. Jarolim, E.L. Goodrich, R.F. Storey, D.L. Bhatt, P.G. Steg, M. Cohen, E. Jensen, P. Johanson, E. Braunwald, D.A. Morrow, M.S. Sabatine (Boston and Newark, US; Sheffield, UK; Paris, FR; Mölndal, SE)
- 08:57 **In-hospital switch of P2Y12 drugs in patients presenting with acute coronary syndrome: a meta-analysis of 14 observational and randomized studies including 10961 patients.** 2865
 – M. Bianco, E. Cerrato, A. Bagai, L. De Luca, S. Biscaglia, F. D’Ascenzo, A. Luciano, P. Destefanis, F. Tomassini, A. Quiros, A. Chinaglia, S.G. Goodman, R. Pozzi, G. Campo, F. Varbella (Orbassano, Rome, Ferrara, Turin and Rivoli, IT; Toronto, CA; Madrid, ES)
- 09:06 **Optimal long-term antithrombotic treatment of patients with stable coronary artery disease and atrial fibrillation: OLTAT registry.** 2866
 – Q. Fischer, J.L. Georges, C. Le Feuvre, E. Berman, S. Cohen, I. Jolivet, G. Helft (Paris and Le Chesnay, FR)
- 09:15 **The effect of CYP2C19 gene polymorphism and clopidogrel dose on clinical outcomes in Asian populations with CAD receiving antiplatelet therapy.** 2867
 – W. Liu, Z.W. Xi, Y.J. Zhou (Beijing, CN)
- 09:24 **Greater pharmacodynamic efficacy of ticagrelor compared to clopidogrel in patients with diabetes mellitus and stable coronary artery disease: a randomized investigation.** 2868
 – A.L. Marcano, J.L. Ferreira, M. Gracida, L.M. Lugo, R. Romaguera, J. Gomez-Lara, G. Roura, L.M. Teruel, J.A. Gomez-Hospital, A. Tello, D. Vivas, A.R. Cequier (L’Hospitalet de Llobregat, Barcelona, Murcia and Madrid, ES)
- 09:33 **Twice daily half-dosage aspirin intake promotes equal and perhaps even more platelet inhibition when compared to standard practice of once daily.** 2869
 – J.J.K. Van Diemen, W.W. Fuijkschot, E. Klaassen, Y.M. Smulders, A. Thijs (Amsterdam, NL)
- 09:42 **Glycemic variability assessed by continuous glucose monitoring and antiplatelet responsiveness in patients undergoing coronary stenting: results from the observational GLYVAR study.** 2870
 – A. Nusca, M. Albano, C. Cavallaro, E. Borrelli, M. Palumo, C. Proscia, A. Lauria Pantano, S. Manfrini, R. Melfi, M. Miglionico, E. Ricottini, P. Gallo, F. Mangiacapra, P. Pozzilli, G. Di Sciascio (Rome, IT)
- 09:51 **Positive effect of new oral anticoagulation on coronary plaque composition? A coronary CT study.** 2871
 – F. Plank, C. Beyer, M. Wildauer, M. Stuehlinger, W. Dichtl, G. Friedrich, G. Feuchtnr (Innsbruck, AT)

08:30–10:00 | Agora 2 - Agora

DRUG TREATMENT IN PATIENTS WITH ARRHYTHMIA

Rapid Fire Abstract

Chairperson(s): E. Hedman (Kys, FI); J.L. Tamargo (Madrid, ES)

- 08:30 **Association between sociodemographic factors and choice of Direct Oral Anticoagulants versus warfarin in atrial fibrillation: A population based cross-sectional study using Swedish Registers.** 2872
– G. Venkatesh Kumar, G. Brobert, L. Friberg (Munich and Berlin, DE; Stockholm, SE)
- 08:39 **Favorable effect of non-vitamin K antagonist oral anticoagulants in atrial fibrillation patients with liver cirrhosis.** 2873
– H.T. Yu, K. Kim, T.H. Kim, J.S. Uhm, J.H. Sung, J.Y. Kim, H.N. Pak, M.H. Lee, B. Joung (Seoul and Seongnam, KR)
- 08:48 **Non-vitamin K antagonist oral anticoagulants in comparison to phenprocoumon in a real-world setting of atrial fibrillation: an analysis of a large German health claims dataset.** 2874
– R. Pfister, J. Jacob, J. Walker, S. Baldus, C. Hohmann (Cologne and Berlin, DE)
- 09:06 **Dabigatran-induced esophagitis after radiofrequency catheter ablation.** 2875
– Y. Ito, M. Igawa, A. Nogami, K. Aonuma (Ibaraki, JP)
- 09:15 **Increasing use of NOAC and antiplatelet combination therapy in atrial fibrillation following myocardial infarction or percutaneous coronary intervention.** 2876
– C. Sindet-Pedersen, L. Staerk, M. Lamberts, J.S. Berger, A. Nissen Bonde, J. Langtved Pallisgaard, C. Torp-Pedersen, G. Gislason, J. Bjerring Olesen (Hellerup, Aalborg and Copenhagen, DK; New York, US)
- 09:24 **Epicardial application of amiodarone-releasing hydrogel: experimental study.** 2877
– O. Bockeria, T. Kanametov, L.A. Bockeria (Moscow, RU)
- 09:33 **Antazoline quickly terminates recent-onset atrial fibrillation during pulmonary vein isolation.** 2878
– B. Binkowski, T. Kucejko, A. Lubinski (Lodz, PL)
- 09:42 **Risk of gastrointestinal bleeding associated with oral anticoagulation and non-steroidal anti-inflammatory drugs in atrial fibrillation: a nationwide study.** 2879
– A.M. Schjerning Olsen, P. McGettigan, E.L. Fosbol, J. Bjerring Olesen, C. Sindet-Pedersen, L. Staerk, M. Lock Hansen, J. Pallisgaard, L. Koeber, C. Torp-Pedersen, M. Lamberts (Hellerup, Copenhagen, Roskilde and Aalborg, DK; London, UK)
- 09:51 **Impact of antazoline on electrophysiologic properties of atrial muscle and conduction system of the heart.** 2880
– B. Binkowski, M. Makowski, P. Kubinski, A. Lubinski (Lodz, PL)

08:30–10:00 | Dublin - Village 1

MECHANISMS OF CARDIOVASCULAR SENESCENCE

Symposium

Chairperson(s): A.M. Shah (London, UK); K.C. Wollert (Hannover, DE)

- 08:30 **Cardiac stem cell ageing and heart failure.** 2881
– A.P. Beltrami (Udine, IT)
- 08:52 **Klotho in the control of vascular aging.** 2882
– C. Savoia (Rome, IT)
- 09:15 **Telomere shortening and cardiovascular prognosis.** 2883
– S.E. Bojesen (Copenhagen, DK)
- 09:37 **Cellular senescence in cardiovascular disease - The future.** 2884
– T. Minamino (Niigata, JP)

08:30–10:00 | Fira - Village 1

BASIC AND TRANSLATIONAL SCIENCE HOT LINE 1

Basic and Translational Science Hot Line

Chairperson(s): S. Dimmeler (Frankfurt, DE); M. Avkiran (London, UK)

- 08:30 **Integrated target discovery screens identify a novel therapeutic target for cardiovascular fibrosis.** 2885
– S.A. Cook (London, UK)
- 08:48 **Cardioprotective effect of LCZ696 (sacubitril/valsartan) after experimental acute myocardial infarction.** 2886
– K. Kaikita (Kumamoto, JP)
- 09:06 **Activation of serine-one-carbon metabolism by the calcineurin variant CnBeta1 reduces cardiac hypertrophy and improves function.** 2887
– E. Lara-Pezzi (Madrid, ES)
- 09:24 **Next generation sequencing for inherited cardiomyopathies: implications for clinical practices.** 2888
– O. Jarinova (Ottawa, CA)
- 09:42 **A novel serum biomarker identifying Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC).** 2889
– R.M. Hamilton (Toronto, CA)

08:30–10:00 | Astana - Village 2



IMPROVING CARDIOVASCULAR OUTCOME MANAGING HYPERTENSION
 Joint with the Brazilian Society of Cardiology

Symposium

Chairperson(s): A. Coca (Barcelona, ES); M. Malachias (Belo Horizonte, BR)

- 08:30 **Combination therapy in hypertension: current status and future perspectives.** 2890
 – C. Amodeo (São Paulo, BR)
- 08:52 **Difficult to control blood pressure - What the physician needs to know.** 2891
 – L.A. Bortolotto (São Paulo, BR)
- 09:15 **Lifestyle interventions to treat hypertension - What works.** 2892
 – H.-G. Predel (Cologne, DE)
- 09:37 **Reducing cardiovascular risk in hypertensive patients - When to use lipid lowering and antiplatelet therapy?** 2893
 – K. Kotseva (London, UK)

08:30–10:00 | Pristina - Village 2

HYPERTENSION – HEAVY HEARTS, BIG PROBLEMS

Advances in Science

Chairperson(s): C.S.P. Lam (Singapore, SG); J. Schulz-Menger (Berlin, DE)

- 08:30 **State of the Art: imaging the hypertensive heart - Historical perspective.** 2894
 – T.H. Marwick (Melbourne, AU)
- 08:48 **A novel marker of advanced ventricular remodeling in hypertension.** 2895
 – V.J. Goh, T.T. Le, J. Bryant, J.I. Wong, B.Y. Su, E. Phua, C. Sim, B. Ang, T.C. Aw, S.A. Cook, C.W.L. Chin (Singapore, SG)
- 09:06 **Age attenuates the relationship between systolic blood pressure and left ventricular mass: evidence from the UK Biobank.** 2896
 – N. Aung, M.M. Sanghvi, F. Zemrak, J.A. Cooper, J.M. Paiva, R.J. Thomson, K. Fung, E. Lukaschuk, A. Lee, V. Carapella, Y.J. Kim, S.K. Piechnik, S. Neubauer, S.E. Petersen (London and Oxford, UK)
- 09:24 **Sex difference in cardiovascular risk is offset by presence of left ventricular hypertrophy.** 2897
 – E. Gerdtz, R. Izzo, C. Mancusi, M.A. Losi, M. Manzi, G. Canciello, N. De Luca, B. Trimarco, G. De Simone (Bergen, NO; Naples, IT)
- 09:42 **New ways to understand left ventricular geometry.** 2898
 – G. de Simone (Naples, IT)

08:30–10:00 | Beirut - Village 3

MULTI-MODALITY IMAGING IN HEART FAILURE

Symposium

Joint with the American College of Cardiology

Chairperson(s): F.J. Pinto (Lisbon, PT); M.N. Walsh (Indianapolis, US)

- 08:30 **CMR to determine the etiology of heart failure.** 2899
 – D.J. Pennell (London, UK)
- 08:52 **Which imaging modality provides the best information on viability? And when should it be used?** 2900
 – C. Shekhar (Edina, US)
- 09:15 **Mitral regurgitation in heart failure: imaging insights for management.** 2901
 – V. Delgado (Leiden, NL)
- 09:37 **Prognostic utility of imaging in chronic heart failure.** 2902
 – C. O'Connor (Durham, US)

08:30–10:00 | Riga - Village 3



IMAGE INTERPRETATION WITH THE MASTERS – CARDIAC CT

Expert Advice

Chairperson(s): R. Rubinshtein (Haifa, IL); Q. Truong (New York, US)

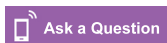
- 08:30 **Where coronary CTA went wrong and why.** 2903
 – M. Ferencik (Portland, US)
- 08:52 **FFR-CT.** 2904
 – B.L. Norgaard (Aarhus, DK)
- 09:15 **CT myocardial perfusion and hybrid imaging.** 2905
 – P.A. Kaufmann (Zurich, CH)
- 09:37 **CT for TAVI.** 2906
 – J. Leipsic (Vancouver, CA)

08:30–10:00 | Chisinau - Village 4

CHOLESTEROL IN PREVENTION GUIDELINES: DIFFERING VIEWS ACROSS THE OCEANS

Chairperson(s): C.N. Bairey Merz (Los Angeles, US); M.-L. Lochen (Tromsø, NO)

08:30	No target levels for cholesterol are needed.	2907
	– D. Lloyd-Jones (Chicago, US)	
08:52	Specific target levels for cholesterol are appropriate in prevention.	2908
	– M.F. Piepoli (Piacenza, IT)	
09:15	Ideal timing of cholesterol lowering in primary prevention: should we start earlier?	2909
	– J. Robinson (Iowa City, US)	
09:37	Panel discussion: cholesterol in prevention guidelines.	2910



Symposium

08:30–10:00 | Vilnius - Village 4

TREATMENT OF ATRIAL FIBRILLATION – HIGHLIGHTING THE ROLE OF THE NURSE

Chairperson(s): H. Heidbuchel (Antwerp, BE); K. Siebens (Waarloos, BE)

08:30	2016 ESC Guidelines for the management of atrial fibrillation – An update from the nurse perspective.	2911
	– J.M.L. Hendriks (Sittard, NL)	
08:52	Implementation of non-vitamin K antagonist oral anticoagulants in daily practice: the need for comprehensive education of professionals and patients.	2912
	– A.M.W. Alings (Breda, NL)	
09:15	Nurse-coordinated atrial fibrillation programmes – The way to move forward.	2913
	– D. Berti (Hasselt, BE)	
09:37	Atrial fibrillation management – The SAFETY trial.	2914
	– S. Stewart (Melbourne, AU)	

Symposium

08:30–10:00 | Skopje - Village 5

ATRIAL HIGH RATE EPISODES AND SUBCLINICAL ATRIAL FIBRILLATION

Chairperson(s): G.L. Botto (Como, IT); J. Healey (Hamilton, CA)

08:30	Does subclinical atrial tachyarrhythmia matter in terms of prognosis?	2915
	– H.-F. Tse (Hong Kong, HK)	
08:52	Monitoring for subclinical atrial fibrillation burden.	2916
	– E. Simantirakis (Heraklion, GR)	
09:15	Should atrial fibrillation screening programmes be promoted?	2917
	– M. Rosenqvist (Stockholm, SE)	
09:37	Atrial fibrillation: dilemmas in risk stratification and stroke prevention.	2918
	– G.Y.H. Lip (Birmingham, UK)	

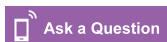
Symposium

08:30–10:00 | Valetta - Village 5

ICD INDICATIONS IN 2017

Chairperson(s): G. Breithardt (Münster, DE); O.C. Mjølstad (Trondheim, NO)

08:30	State of the Art: ICD therapy.	2919
	– L. Kober (Copenhagen, DK)	
08:48	Implantable cardioverter/defibrillators for primary prevention in dilated cardiomyopathy post-DANISH: an updated meta-analysis and systematic review of randomized controlled trials.	2920
	– G. Wolff, Y. Lin, A. Karathanos, M. Brockmeyer, S. Wolters, B. Nowak, A. Fuernkranz, H. Makimoto, M. Kelm, V. Schulze (Düsseldorf and Frankfurt, DE)	
09:06	ICDs and CRTs in patients with chronic kidney disease: a meta-analysis.	2921
	– M. Shurrab, Y. Zayed, D. Ko, S. Navaneethan, N. Yadak, A. Yaseen, W. Qamhia, A. Kaoutskaia, D. Lee, D. Newman, Z. Hamdan, S. Haj-Yahia, P. Harvey, E. Crystal (Nablus, PS; Toronto, CA; Houston, US)	
09:24	Implantation of ICD and CRT-D in the elderly population: will it be a limiting factor?	2922
	– I. Aguiar-Ricardo, N. Cortez-Dias, P. Marques, A. Magalhaes, I. Goncalves, J. Agostinho, G. Lima Da Silva, T. Guimaraes, I. Santos, A.R. Francisco, A. Bernardes, H.C. Costa, L. Carpinteiro, J. Fauto Pinto, J. De Sousa (Lisbon, PT)	
09:42	ICD - Sudden cardiac death prevention in the next decade.	2923
	– V. Kutyla (Budapest, HU)	



Advances in Science



08:30–10:00 | Bishkek - Village 6

LONG-TERM OUTCOME OF CORONARY STENTS AND SCAFFOLDS

Advances in Science

Chairperson(s): J. Wohrle (Ulm, DE); T. Gudnason (Reykjavik, IS)

- 08:30 **State of the Art: does DES type impact long-term outcome and, potentially, DAPT duration?** 2924
– S. Massberg (Munich, DE)
- 08:48 **Four-year clinical outcome following randomised use of zotarolimus-eluting stents versus everolimus-eluting stents in all-comers: insights from the DUTCH PEERS trial.** 2925
– M. Lowik, L.C. Van Der Heijden, M.M. Kok, P. Zocca, P.W. Danse, G.A.J. Jessurun, R.W.M. Hautvast, M. Hartmann, M.G. Stoel, G.C.M. Linsen, C.J.M. Doggen, C. Von Birgelen (Enschede, Arnhem, Emmen, Alkmaar, Almelo and Hengelo, NL)
- 09:06 **Long term outcomes of first and second generation drug-eluting stents in patients with diabetes: a pooled analysis of individual patient data from SORT OUT III, IV and V trials.** 2926
– L.O. Jensen, M. Maeng, J. Ravkilde, C.J. Terkelsen, H.S. Hansen, S.D. Kristensen, M. Madsen, K.N. Hansen, H.E. Boetker, E.H. Christiansen (Odense, Aarhus and Aalborg, DK)
- 09:24 **Sex-related differences in patients undergoing complex coronary interventions in the era of 2nd generation DES.** 2927
– B. Vogel, J. Chandrasekhar, S. Farhan, S. Sartori, G. Giustino, C. Snyder, J. Kovacic, P. Moreno, N. Barman, J. Sweeny, P. Vijay, G. Dangas, R. Mehran, A. Kini, S. Sharma (New York, US)
- 09:42 **State of Affairs: a cautiously optimistic perspective on bioresorbable scaffolds.** 2928
– G. Stone (New York, US)

08:30–10:00 | Luxembourg - Village 6



Ask a Question

UNUSUAL CORONARY PATHOLOGY: WHAT TO DO

Expert Advice

Chairperson(s): M.C. Morice (Massy, FR); H. Mansour (Cairo, EG)

- 08:30 **Myocardial bridges.** 2929
– T.-H. Koh (Singapore, SG)
- 08:52 **Spontaneous coronary dissection and intramural hematoma.** 2930
– A.S. Petronio (Pisa, IT)
- 09:15 **Coronary aneurysms and ectasia.** 2931
– C.W. Hamm (Bad Nauheim, DE)
- 09:37 **Coronary anomalies and fistulae.** 2932
– V. Kocka (Prague, CZ)

08:30–10:00 | Podgorica - Village 6

THE DILATED AORTA

Symposium

Chairperson(s): M.L. Muesan (Brescia, IT); S. Verma (Toronto, CA)

- 08:30 **Thoracic aortic dilation and pregnancy.** 2933
– J. De Backer (Ghent, BE)
- 08:52 **Aortic dilation, exercise and sports.** 2934
– A. Pelliccia (Rome, IT)
- 09:15 **Thoracic aortic dilatation and aneurysms: surveillance and medical therapy.** 2935
– A. Evangelista Masip (Barcelona, ES)
- 09:37 **Small abdominal aortic aneurysms: surveillance and medical therapy.** 2936
– P. Lacroix (Limoges, FR)

08:30–10:00 | Oslo - Village 7



Ask a Question

40 YEARS OF PERCUTANEOUS INTERVENTIONS IN VALVULAR HEART DISEASE

Symposium

Chairperson(s): L.A. Pierard (Liège, BE); A. DeMaria (La Jolla, US)

- 08:30 **Percutaneous mitral commissurotomy: the first catheter technique.** 2937
– A. Vahanian (Paris, FR)
- 08:52 **Balloon aortic valvuloplasty: hope, disappointment and revival.** 2938
– B.D. Prendergast (London, UK)
- 09:15 **Transcatheter aortic valve implantation: history, the current role and my take on the future.** 2939
– M.B. Leon (New York, US)
- 09:37 **Transcatheter mitral valve repair: towards a tailored anatomic approach.** 2940
– N.M.D.A. van Mieghem (Rotterdam, NL)

08:30–10:00 | Rabat - Village 7

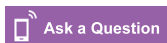
PATHOLOGY FOR CARDIAC IMAGING OF UNUSUAL CARDIOMYOPATHIES

Cardiac Anatomy and Pathology Live

Chairperson(s): C. Basso (Padua, IT); V.O. Puntmann (Frankfurt, DE)

- 08:30 **Live video demonstration.** 2941
– A. Angelini (Padua, IT)
- 09:30 **Hands-on specimen demonstration.** 2942

08:30–10:00 | Bucharest - Village 8



STARTING, STOPPING, AND EVERYTHING IN BETWEEN: RECENT DATA CONCERNING DUAL ANTIPLATELET THERAPY IN ACS

Symposium

Chairperson(s): P.G. Steg (Paris, FR); D. Chew (Adelaide, AU)

- 08:30 **When should we start P2Y12 inhibitors in patients with an acute coronary syndrome?** 2943
– G.M. Montalescot (Paris, FR)
- 08:52 **Role of intravenous antiplatelet drugs in acute coronary syndromes.** 2944
– D.J. Angiolillo (Jacksonville, US)
- 09:15 **How to manage ACS patients who require oral anticoagulation?** 2945
– J.M. Ten Berg (Nieuwegein, NL)
- 09:37 **How long is long enough? When to stop DAPT after an acute coronary syndrome?** 2946
– L. Mauri (Boston, US)

08:30–10:00 | Tripoli - Village 8

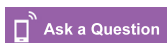
IMPACT OF CLIMATE, AIR POLLUTION AND STRESS ON ACUTE CORONARY SYNDROMES

Advances in Science

Chairperson(s): V. Istrati (Chisinau, MD); T. Munzel (Mainz, DE)

- 08:30 **State of the Art: climate, air pollution and acute coronary syndromes.** 2947
– D.E. Newby (Edinburgh, UK)
- 08:48 **Weather conditions and incidence of acute coronary syndromes: a large-scale analysis based on national healthcare system administrative data.** 2948
– G. Malanchini, G.G. Stefanini, C. Panico, M. Chiarito, D. Cao, B. Reimers, G. Condorelli (Milan and Rozzano, IT)
- 09:06 **Air temperature as an external trigger of ST-segment elevation myocardial infarction - a SWEDEHEART nationwide observational study.** 2949
– M.A. Mohammad, S. Koul, R. Rylance, O. Frobert, J.G. Alfredsson, T. Jernberg, J. Muller, D. Erlinge (Lund, Linköping and Stockholm, SE; Boston, US)
- 09:24 **Cluster of climatic and pollutant characteristics increases admissions for acute myocardial infarction: analysis of 30,000 patients in a large metropolitan area.** 2950
– M.H. Ribeiro, A. Caixeta, M. Franken, B. Almeida, J. Mariani, P.A. Lemos, E. Ribeiro, F.S. Brito Jr, C.M. Campos (São Paulo, BR)
- 09:42 **Impact of stress as “internal polluter” on cardiovascular disease.** 2951
– A. Tawakol (Boston, US)

08:30–10:00 | Lisbon - Village 9



HEART FAILURE PATIENTS TEND TO HAVE MORE THAN ONE PROBLEM: HOW TO MANAGE COMORBIDITIES

Expert Advice

Chairperson(s): A.J.S. Coats (Coventry, UK); K. Swedberg (Gothenburg, SE)

- 08:30 **Treatment of diabetes in patients with heart failure: advice for the cardiologist.** 2952
– P. Seferovic (Belgrade, RS)
- 08:52 **Heart failure and sleep apnea.** 2953
– M.R. Cowie (London, UK)
- 09:15 **Iron supplementation for heart failure patients: in whom, when and how?** 2954
– E.A. Jankowska (Wroclaw, PL)
- 09:37 **Kidney dysfunction in heart failure: why worry?** 2955
– M. Pfeffer (Boston, US)

08:30–10:00 | Warsaw - Village 9

LATE-BREAKING SCIENCE IN HEART FAILURE

Late-Breaking Science

Chairperson(s): F. Ruschitzka (Zurich, CH); M. Packer (Dallas, US)

08:30	Heart failure and death in new users of SGLT2 inhibitors vs other glucose-lowering drugs - consistent risk reduction across patient groups in 4 countries and >270,000 patients: The CVD-REAL Study.	2956
	– A. Norhammar (Stockholm, SE)	
08:45	Efficacy of beta-blockers in heart failure according to left ventricular ejection fraction: An individual patient level analysis of double-blind randomised trials.	2957
	– D. Kotecha (Birmingham, UK)	
09:00	Marked variation in the efficacy of beta-blockers across cardiovascular health: A Global systematic assessment of mortality, myocardial infarction and stroke.	2958
	– O. Ziff (Leeds, UK)	
09:15	Heart Failure-Wii study.	2959
	– T. Jaarsma (Norrköping, SE)	
09:30	Does the risk for heart failure (HF) modulate the effectiveness of empagliflozin on HF hospitalisation or CV death in patients with type 2 diabetes without HF? Insights from EMPA-REG OUTCOME.	2960
	– J. Butler (Atlanta, US)	
09:45	Predicting right heart failure after implantation of continuous flow left ventricular assist devices (EUROMACS-RHF) score: analysis of the EUROMACS data.	2961
	– O.I.I. Soliman (Rotterdam, NL)	

Moderated Posters are on display from 08:30 to 12:30 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (10:05–10:55), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

10:05–10:55 | Moderated poster station - Poster Area



TRANSCATHETER AORTIC VALVE IMPLANTATION

Moderated Posters

Chairperson(s): D. Pinto (Boston, US); I. Barbash (Ramat Gan, IL)

	Prognostic impact of cachexia after transcatheter aortic valve implantation in patients with severe aortic valve stenosis.	P2962
	– L. Voigtlaender, F. Deuschl, N. Schofer, M. Seiffert, N. Ruebsamen, J. Schirmer, L. Conradi, H. Reichenspurner, S. Blankenberg, U. Schaefer (Hamburg, DE)	
	Impact of coronary artery disease on clinical outcomes after transcatheter aortic valve replacement.	P2963
	– S. Aggarwal, Y. Agrawal, J. Higgins, G. Pavlides, V. Gupta (Omaha and Kalamazoo, US)	
	Paravalvular leak following surgical and transcatheter aortic valve replacement: comparative outcomes and the defining role of STS score.	P2964
	– R. Padang, M. Ali, K.L. Greason, C.G. Scott, C.S. Rihal, M.F. Eleid, V.T. Nkomo, P.A. Pellikka, S.V. Pislaru (Rochester, US)	
	Influence of concomitant mitral regurgitation after transcatheter aortic valve implantation during 5-year follow-up.	P2965
	– R. Zahn, N. Werner, A. Linke, H. Sievert, P. Kahlert, R. Hambrecht, G. Nickenig, S. Schneider, S. Sack, U. Gerckens (Ludwigshafen, Leipzig, Frankfurt, Essen, Bremen, Bonn and Munich, DE)	
	Quantitative assessment of prosthetic valve regurgitation after TAVI by angiography and cardiac magnetic resonance imaging.	P2966
	– M. Abdelghani, M. Abdel-Wahab, Y. Miyazaki, E. Holy, C. Merten, D. Zachow, P. Tonino, M. Rutten, F. Van De Vosse, M.A. Morel, Y. Onuma, P. Serruys, G. Richardt, O. Soliman (Amsterdam, Rotterdam and Eindhoven, NL; Bad Segeberg, DE; London, UK)	
	Von Willebrand factor as a marker of successful transcatheter aortic valve implantation in low-flow/low-gradient aortic stenosis: insights of WITAVI study.	P2967
	– F. Vincent, A. Rauch, F. Juthier, G. Lemesle, H. Spillemaeker, V. Loobuyck, N. Rousse, E. Robin, E. Jeanpierre, N. Debry, A. Coisne, C. Delhay, J.-L. Auffray, S.S. Susen, E. Van Belle (Lille, FR)	

10:05–10:55 | Moderated poster station - Poster Area

NEXT GENERATION NUCLEAR CARDIOLOGY IMAGING

Moderated Posters

Chairperson(s): A. Gimelli (Pisa, IT); K.A. Williams (Chicago, US)

Correlation of apical left ventricular wall thickness and ¹³N-ammonia uptake in myocardial perfusion positron emission tomography. P2968

– D.A. Steffen, M. Grossmann, A.A. Giannopoulos, M. Messerli, P.A. Kaufmann, R.R. Buechel (Zurich, CH)

Comparison of diagnostic performance of cadmium-zinc-telluride camera system between ²⁰¹Tl and ^{99m}Tc-radiotracers as assessed by fractional flow reserve. P2969

– S. Hida, T. Chikamori, Y. Igarashi, T. Saitoh, K. Hirose, J. Yamashita, N. Murata, K. Hoshino, T. Hatano, H. Tanaka, A. Yamashina (Tokyo, JP)

Healthy vascular aging: what can the coronary arteries tell us. P2970

– A. Aljizeeri, D. Ahmed, M. Alali Alfaris, I. Suliman, A. Sulaiman, A. Mahmud, A. Ahmed, H. Fielding, M. Al-Mallah (Riyadh, SA)

Longitudinal evaluation of myocardial glucose metabolism and contractile function in obese Type 2 Diabetic db/db mice using small-animal dynamic ¹⁸F-FDG PET. P2971

– Y.W. Wu, K.Y. Ko, J.W. Liu, M.F. Cheng, R.F. Yen, W.S. Yang (New Taipei City and Taipei, TW)

Applicability of ultra-low dose computed tomography for attenuation correction of cadmium-zinc-telluride single photon emission computed tomography myocardial perfusion imaging. P2972

– M. Grossmann, F. Bechtiger, A.A. Giannopoulos, M. Messerli, D.C. Benz, A.P. Pazhenkottill, O. Gaemperli, P.A. Kaufmann, R.R. Buechel (Zurich, CH)

Glutamate carboxypeptidase II expression-dependent microPET visualization of reendothelialization after balloon denudation in a rat model: a novel tool for non-invasive in vivo molecular imaging. P2973

– A. Cornelissen, B. Zlatopolskiy, S. Simsekylmaz, H. Endepols, J. Brucerius, O. Winz, A. Neumaier, A. Morgenroth, N. Marx, F. Mottaghy, F. Vogt (Aachen and Cologne, DE)

10:05–10:55 | Moderated poster station - Poster Area

VENTRICULAR FUNCTION AND HAEMODYNAMICS

Moderated Posters

Chairperson(s): J. Celutkienė (Vilnius, LT); E. Goncalvesova (Bratislava, SK)

Late gadolinium enhancement, reverse remodeling and prognosis in patients with non-ischemic dilated cardiomyopathy and moderate-to-severe systolic dysfunction. P2974

– A. Aimo, A. Barison, G. Aquaro, A. Ortalda, V. Castiglione, C. Passino, P. Camici, M. Ermdin (Pisa and Milan, IT)

Pulmonary arterial compliance is a major determinant of right ventricular dysfunction: an echocardiographic/invasive hemodynamic study. P2975

– G. Borio, R. Scarsini, A. Rossi, M. Cuman, A. Piccoli, A. Forni, G. Pesarini, C. Vassanelli, F. Ribichini (Verona, IT)

Incidence of recovery and recurrence in patients with idiopathic dilated cardiomyopathy; usefulness of ¹²³I-MIBG scintigraphy in predicting prognosis and effectiveness of beta-blockers. P2976

– S. Nishimura, C. Izumi, Y. Obayashi, M. Fuki, M. Imanaka, M. Kuroda, M. Amano, N. Onishi, J. Sakamoto, Y. Tamaki, S. Enomoto, M. Miyake, T. Tamura, H. Kondo, Y. Nakagawa (Tenri, JP)

Non-invasive pulse contour analysis for hemodynamic assessment in patients with chronic heart failure. P2977

– S. Roth, U. Fuchs, A.L. Krenz, J. Fleischhauer, U. Schulz, H. Fox, A. Costard-Jaeckle, J. Gummert, D. Horstkotte, O. Oldenburg, T. Bitter (Bad Oeynhausen, DE)

Right versus left ventricular remodeling in chronic heart failure induced by volume overload: invasive pressure-volume and myocardial proteome comparative analysis. P2978

– T. Havlenova, M. Kotrc, P. Skaroupkova, M. Behounek, M. Chmel, L. Cervenka, J. Petrak, V. Melenovsky (Prague, CZ)

Clinical significance of right ventricular longitudinal function parameters after aortic valve replacement. P2979

– A. Coisne, T. Modine, F. Outteryck, S. Mouton, R. Pilato, M. Richardson, A. Duva-Pentiah, A.L. Madika, G. Ledieu, B. Boutie, M. Jacquelinet, M. Koussa, G. Fayad, P. Lancellotti, D. Montaigne (Lille, FR; Liège, BE)

Therapeutic effect of immunoadsorption and subsequent immunoglobulin substitution in patients with dilated cardiomyopathy: results from the observational prospective Bad Berka Registry. P2980

– M. Ohlow, M. Brunelli, M. Schreiber, B. Lauer (Bad Berka and Magdeburg, DE)

10:05–10:55 | Moderated poster station - Poster Area

NOVELTIES IN ACUTE AND CHRONIC NURSING CARE

Moderated Posters

Chairperson(s): T.M. Norekval (Bergen, NO); D. Fitzsimons (Belfast, UK)

- Do symptoms correlate with underlying rhythm in patients after atrial fibrillation ablation?** P2981
– K.A. Wood, A.H. Barnes, S. Paul, K.A. Hines, K.P. Jackson (Atlanta and Durham, US)
- Quality Improvement Initiative: 2-year health-associated infection rate in pediatric patients undergoing on-pump cardiac surgery after nursing prevention checklist implementation.** P2982
– E. Anikeeva, D. Shukevich, G. Plotnikov, O. Andguladze, I. Halivopulo (Kemerovo, RU)
- Who decides what and when: a holistic understanding of decision-making in implantable cardioverter defibrillator deactivation.** P2983
– L.M. Hill, S. McIlpatrick, B.J. Taylor, D. Fitzsimons (Belfast and Jordanstown, UK)
- The patients perspective of self testing while on warfarin therapy.** P2984
– G. McKee, A. Grogan, M. Coughlan, G. Prizeman, N. O'Connell, N. O'Mahony, K. Quinn (Dublin and Naas, IE)
- Twelve weeks of a sexual rehabilitation program improves sexual function in patients with either ischaemic heart disease or patients with implantable cardioverter defibrillator and sexual dysfunction.** P2985
– P.P. Johansen, A.D.O. Zwisler, J.H. Svendsen, L.C. Thygesen, A. Giraldi, J. Lindschou, P. Winkel, C. Gluud, S.K. Berg (Copenhagen and Odense, DK)
- Frailty and quality of life in heart failure patients with mid-range ejection fraction.** P2986
– B. Gonzalez, P. Gastelurrutia, J. Lupon, M. Rodriguez, P. Moliner, C. Rivas, M. De Antonio, M. Domingo, V. Diaz, E. Zamora, T. Armesto, M. Puertas, M. Cachero, A. Morales, A. Bayes-Genis (Badalona, ES)
- Subgroup differences and determinants of patient-reported mental and physical health at hospital discharge among patients with ischemic heart disease: results from the DenHeart study.** P2987
– T.B. Rasmussen, M. Herning, P.P. Johansen, J.S. Jensen, A.V. Christensen, B. Borregaard, K.S.G. Nielsen, L. Thysoee, C.B. Thorup, M. Vamosi, K. Juel, O. Ekholm, S.K. Berg (Hellerup, Copenhagen, Odense, Aalborg and Aarhus, DK)

10:05–10:55 | Moderated poster station - Poster Area

LIPID METABOLISM

Moderated Posters

Chairperson(s): G. Latsios (Agia Paraskevi, GR); S. Tsimikas (La Jolla, US)

- Geranylgeraniol prevents the simvastatin-induced PCSK9 expression: role of the small G protein Rac1.** P2988
– N. Ferri, S.M. Marchiano, A.C. Corsini (Padua and Milan, IT)
- Is lipoprotein(a) metabolism linked to the transport and catabolic rates of apolipoprotein B-100 containing lipoproteins?** P2989
– D. Chan, G.F. Watts, P.H.R. Barrett, S.M. Marcovina, B. Coll, R. Somaratne, S.M. Wasserman (Crawley, AU; Seattle and Thousand Oaks, US)
- Over-expressing hematopoietic ABCA1 and ABCG1 re-configures the plasma membrane against inflammation, insulin resistance and atherosclerosis in diet-induced obesity.** P2990
– C. Tang, S. Storey (Seattle, US)
- Evolocumab lowers plasma Lp(a) concentration by two kinetic modes of action: From the FLOREY Study.** P2991
– G. Watts, P.H.R. Barrett, D.C. Chan, B. Coll, R. Somaratne, S.M. Wasserman (Perth and Crawley, AU; Thousand Oaks, US)
- Clinical utility of sequencing lipoprotein lipase genes pathway in patients with severe hypercholesterolemia.** P2992
– N. Marziliano, C. Reverberi, S. Uras, P.A. Merella, P.A. Berne, V. Carboni, G. Piras, M. Monne, R. Asproni, A. Uras, N. Galbazzi, A. Fiscella, D. Fiscella, M. Gulizia, G. Casu (Nuoro, Parma and Catania, IT)
- Deletion of fatty acid binding protein-4 and -5 reduce triglyceride absorption in small intestine of mice.** P2993
– M.R.A.A. Syamsunarno, T. Iso, R. Panigoro, M. Kurabayashi (Bandung, ID; Maebashi, JP)
- VEGF-B knockout rescues hyperlipidaemia and altered chylomicron metabolism induced by VEGF-D knockout in atherogenic mouse model.** P2994
– A. Tirronen, T. Vuorio, S. Kettunen, M. Jauhiainen, P. Gordts, S. Yla-Herttuala (Kuopio and Helsinki, FI; San Diego, US)

10:05–10:55 | Moderated poster station - Poster Area

COMPLETING THE VALVULAR HEART DISEASE PUZZLE

Moderated Posters

Chairperson(s): H. Eltchaninoff (Rouen, FR); J.D. Kasprzak (Lodz, PL)

- Risk factors for aortic stenosis and aortic valve replacement in 1.2 million UK women.** P2995
 – B.J. Cairns, R. Clarke, P. Harris, D. Canoy, S. Floud, M.E.G. Armstrong, F.L. Wright, R.C. Travis, G.K. Reeves, V. Beral, J. Green (Oxford, UK; Sydney, AU)
- Antithrombotic strategies in patients with aortic bio prostheses, what is the optimal treatment.** P2996
 – C. Christersson, A. Ahlsson, O. Friberg, S. James, A. Jeppsson, L. Lindhagen, E. Stahle (Uppsala, Örebro and Gothenburg, SE)
- Prophylactic antiplatelet therapy is superior to anticoagulation after surgical bioprosthetic aortic valve replacement: a meta-analysis and meta-regression.** P2997
 – M. Makkiya, M. Algodí, P. Villablanca, N. Bulcha, D. Briceno, F. Kargoli, M. Garcia (New York, US)
- Coronary evaluation before valvular heart surgery - prospective validation of the CT-Valve score.** P2998
 – R.B. Hasselbalch, T. Engstroem, M. Pries-Heje, M. Heitmann, F. Pedersen, M. Schou, H. Mickley, H. Elming, R. Steffensen, L. Koeber, K. Iversen (Copenhagen, Odense, Roskilde and Hillerod, DK)
- Predictors of immediate results and very long-term follow-up after percutaneous mitral balloon valvuloplasty in rheumatic mitral stenosis.** P2999
 – R. Meneguz Moreno, J.R. Costa Jr, N.L. Gomes, A.I.O. Ramos, Z.M. Meneghelo, M. Maldonado, A.N. Ferreira Neto, J.I. Franca, D. Siqueira, C. Esteves, S. Braga, A. Sousa, J.E. Sousa, A. Abizaíd (São Paulo, BR)
- Six-month results of transcatheter edge-to-edge repair of severe tricuspid regurgitation.** P3000
 – J. Hausleiter, D. Braun, M. Orban, J. Mehilli, D. Roesler, A. Englmaier, S. Massberg, M. Nabauer (Munich, DE)
- Stable rates of first hospitalisation for infective endocarditis with no improvement in survival: a population level study of Scotland from 1996-2014.** P3001
 – R. Campbell, M.C. Petrie, J.J.V. McMurray, P.S. Jhund (Glasgow, UK)

10:05–10:55 | Moderated poster station - Poster Area

HYPERTENSION AND BED-TIME STORIES

Moderated Posters

Chairperson(s): C. Borghi (Bologna, IT); L. Sperling (Atlanta, US)

- Isolated nocturnal hypertension with morning hypertension was related with central hypertension and increased arterial stiffness.** P3002
 – J. Oh, S. Park, C.J. Lee, I.C. Kim, S.H. Lee, S.M. Kang (Seoul, KR)
- Decline in sleep blood pressure is reversely correlated with left ventricular hypertrophy.** P3003
 – J.B. Lee, S.P. Hong, C.Y. Kim, Y.S. Lee, J.K. Ryu, J.Y. Choi, K.S. Kim (Daegu, KR)
- Differences in macrovascular and microvascular changes between treated and never treated hypertensive males with erectile dysfunction.** P3004
 – N. Ioakeimidis, C. Vlachopoulos, C. Georgakopoulos, D. Terentes-Prinzios, A. Angelis, P. Xaplanteris, N. Maggas, I. Gourgouli, D. Tousoulis (Athens, GR)
- Penile microvascular endothelial reactivity, erectile function and blood pressure in hypertensive patients: effects of the chronic treatment with type 5 phosphodiesterase inhibitors.** P3005
 – V. Verri, A.A. Brandao, E. Tibirica (Rio de Janeiro, BR)
- Association of obstructive sleep apnoea and short sleep duration with hypertension: the Brazilian longitudinal study of adult health ((ELSA-Brasil).** P3006
 – B.K. Parise, R.B. Santos, W.A. Silva, S. Pereira-Souza, A.N. Aiello, R.D.F. Tamashiro, I.M. Bensenor, P.A. Lotufo, L.F. Drager (São Paulo, BR)
- Nocturnal blood pressure and pulse rate might predict moderate to severe sleep disordered breathing in the Japanese patients.** P3007
 – S. Nijijima, T. Komori, S. Hoshide, K. Kario (Shimotsuke, JP)
- Twenty-four-hour monitoring of arterial stiffness of patients with chronic obstructive pulmonary disease with and without arterial hypertension.** P3008
 – G. Dolishnyaya, N. Karoli, A. Rebrov (Saratov, RU)

10:05–10:55 | Moderated poster station - Poster Area

MECHANISMS AND PATHOPHYSIOLOGY

Moderated Posters

Chairperson(s): M.A. Vos (Utrecht, NL); N. Hatem (Paris, FR)

- Coupling intervals of idiopathic, NIDCM, ischemic and inherited PLN and LMNA cardiomyopathy associated premature ventricular contractions: an insight into the underlying arrhythmia mechanisms.** P3009
 – L.J. De Vries, M. Martirosyan, R.J. Van Domburg, T. Geczy, T. Szili-Torok (Rotterdam, NL)
- Lower soluble Klotho and higher impact fibroblast growth factor 23 serum levels are associated with episodes of atrial fibrillation.** P3010
 – K. Mizia-Steć, J. Wiecezorek, A.M. Whuk-Wojnar, I. Wozniak-Skowierska, M. Wybraniec, A. Hoffmann, S. Nowak, M. Cichon, M. Adamczak, J. Chudek, A. Wiecek (Katowice, PL)
- Obesity increases the propensity for atrial arrhythmias.** P3011
 – K. Webb, M. Absi, S. Logantha, K. Zaborska, A. Gurney, A. Heagarty, E. Cartwright, H. Zhang, O. Monfredi, M. Boyett (Manchester, UK; New York, US)
- Perhexiline inhibits multiple cardiac ion channels and prolongs the QTc interval predominantly by lengthening the Tpeak-Tend interval.** P3012
 – P. Sager, B. Darpo, M.G. Midei, A.J. Camm, P. O'Grady, P. Druzgala, W. Abraham (Palo Alto, Rochester and Columbus, US; Dublin, IE; London, UK)
- Combination of intraoperative electroanatomical mapping and histopathological examination revealed mechanism of monomorphic ventricular tachycardia associated with primary cardiac tumor.** P3013
 – H. Murata, Y. Miyauchi, T. Nitta, Y. Iwasaki, K. Yodogawa, Y. Fujimoto, K. Takahashi, I. Tsuboi, H. Hayashi, S. Uetake, S. Sakamoto, S. Kunugi, M. Hayashi, W. Shimizu (Tokyo and Chiba, JP)
- Drivers of persistent atrial fibrillation: do focal or rotational regions differ in their stability over time?** P3014
 – R. Navara, G. Leef, F. Shenasa, G. Meckler, C. Kowalewski, T. Baykaner, M. Alhousseini, S. Hossainy, V. Joshi, A.J. Rogers, J. Zaman, S. Park, P. Zei, P. Wang, S. Narayan (Palo Alto, US)
- The study of serum inflammatory mediators in patients with atrial fibrillation.** P3015
 – S.I. Sazonova, J.N. Ilushenkova, R.E. Batalov, A.M. Gusakova, J.V. Rogovskaya, S.V. Popov, Y.B. Lishmanov (Tomsk, RU)

10:05–10:55 | Moderated poster station - Poster Area

IMPACT OF MODIFIABLE RISK FACTORS ON PATIENT OUTCOMES ON CARDIAC ICU

Moderated Posters

Chairperson(s): D.M. Walker (Hastings, UK); E. Swahn (Linköping, SE)

- National trends and outcomes of acute kidney injury in ST elevation myocardial infarction.** P3016
 – A. Sakhuja, R.C. Albright, J. Murphy, R.S. Wright (Rochester, US)
- Serum potassium levels and risk of in-hospital arrhythmias and mortality in patients admitted with suspicion of acute coronary syndrome.** P3017
 – J. Faxen, H. Xu, T. Jernberg, K. Szummer, J.J. Carrero (Stockholm, SE)
- Nosocomial infections in a cardiac care intensive unit: epidemiology, prognosis and predictors.** P3018
 – B. Picarra, J. Pais, M. Carrington, A.R. Santos, R. Guerreiro, J. Carvalho, K. Congo, D. Bras, J. Aguiar (Évora, PT)
- Blood transfusions and high haemoglobin thresholds for transfusion are associated with increased mortality in patients with acute coronary syndrome.** P3019
 – S.L. Leonardi, G. Satri, M. Arpellini, A. Repetto, R. Camporotondo, M. Ferlini, A. Mandurino-Mirizzi, S. Mauri, F. Ottani, C. Castelli, A. Barenco, A. Raisaro, M. Ferrario, L. Oltrona-Visconti, G.M. De Ferrari (Pavia and Forlì, IT)
- Real-world clinical experience with percutaneous extracorporeal life support system (ECLS): analysis of the German Lifebridge registry.** P3020
 – M. Masyuk, P. Abel, M. Hug, A. Haneya, S. Sack, K. Sideris, N. Langwieser, T. Graf, G. Fuernau, M. Franz, R. Westenfeld, M. Kelm, S. Felix, C. Jung (Düsseldorf, Greifswald, Munich, Kiel, Lübeck and Jena, DE)
- A standardized real-life post-resuscitation feedback-system improves the quality of advanced life support in out-of-hospital cardiac arrest.** P3021
 – P. Sulzgruber, P. Hubner, E. Lobmeyr, C. Wallmueller, M. Poppe, P. Datler, M. Keferboeck, S. Zeiner, A. Nuernberger, A. Laggner, F. Sterz (Vienna, AT)
- Post-resuscitation care in elderly patients: insights from the sudden death expertise center registry.** P3022
 – N. Aissaoui, W. Bougouin, F. Dumas, F. Beganton, N. Karam, L. Lamhaut, D. Jost, X. Jouven, E. Marijon, A. Cariou (Paris, FR)

10:10–10:50 | Spotlight Stage

THE EUROPEAN HEART JOURNAL'S YEAR IN CARDIOLOGY: HEART FAILURE AND VALVULAR HEART DISEASE Special Session

Joint with the European Heart Journal

Chairperson(s): M. Metra (Brescia, IT); F. Ruschitzka (Zurich, CH)

- | | | |
|-------|--|------|
| 10:10 | The European Heart Journal's Year in Cardiology: heart failure and valvular heart disease - Introduction. | 3023 |
| | – M. Metra (Brescia, IT) | |
| 10:13 | Imaging in valvular heart disease and in heart failure. | 3024 |
| | – J.J. Bax (Leiden, NL) | |
| 10:23 | Heart failure 2017 - An update. | 3025 |
| | – J.J.V. McMurray (Glasgow, UK) | |
| 10:31 | Aortic valve disease and heart failure. | 3026 |
| | – A. Vahanian (Paris, FR) | |
| 10:39 | Mitral valve disease in 2017. | 3027 |
| | – O. Gaemperli (Zurich, CH) | |
| 10:47 | The European Heart Journal's Year in Cardiology: heart failure and valvular heart disease - Conclusion. | 3028 |
| | – F. Ruschitzka (Zurich, CH) | |

10:10–10:50 | Dali - The Hub

START-UP CASE STUDIES – SUCCESSES AND FAILURES Special Session

Chairperson(s): F.J. Pinto (Lisbon, PT); A.S. Segev (Tel Hashomer, IL)

- | | | |
|-------|---|------|
| 10:10 | From PVT into contemporary Edwards Sapien valves. | 3029 |
| | – M.B. Leon (New York, US) | |
| 10:23 | Valtech: portfolio of mitral solutions. | 3030 |
| | – F. Maisano (Zurich, CH) | |
| 10:36 | InspireMD/MGurd and CGurad: Great medical concepts, pronounced business challenge! | 3031 |
| | – C. Lotan (Jerusalem, IL) | |

10:10–10:50 | Agora 1 - Agora

ESC eLEARNING PLATFORM – OUTCOMES AND LESSONS LEARNED Special Session

Chairperson(s): P. Kearney (Cork, IE); I.A.C. Van Der Bilt (Naarden, NL)

- | | | |
|-------|---|------|
| 10:10 | ESC eLearning Platform - Outcomes and lessons learned – Trainee feedback. | 3032 |
| | – A. Kasiakogias (Athens, GR) | |
| 10:18 | ESC eLearning Platform - Outcomes and lessons learned – Trainer feedback. | 3033 |
| | – A.N. Borg (Balzan, MT) | |
| 10:26 | ESC eLearning Platform - Outcomes and lessons learned – Statutory authority. | 3034 |
| | – D. O'Shea (Dublin, IE) | |
| 10:34 | ESC eLearning Platform - Outcomes and lessons learned – What the future holds. | 3035 |
| | – I.A.C. Van Der Bilt (Naarden, NL) | |
| 10:42 | ESC eLearning Platform - Outcomes and lessons learned – Panel discussion. | 3036 |
| | – L.M. Goncalves (Coimbra, PT) | |

10:10–10:50 | Agora 2 - Agora

BIG DATA FOR DUMMIES Special Session

Chairperson(s): N. Bruining (Rotterdam, NL); H. Hemingway (London, UK)

- | | | |
|-------|---|------|
| 10:10 | Cardiology and Big Data: potential applications. | 3037 |
| | – H. Boersma (Rotterdam, NL) | |
| 10:30 | Big Data analytics for cardiology: how does it work? | 3038 |
| | – E. Peterson (Durham, US) | |

10:10–10:50 | Riga - Village 3

 Ask a Question

IMAGE INTERPRETATION WITH THE MASTERS – THROMBOSIS OF BIOPROSTHETIC HEART VALVES Special Session

Chairperson(s): B.D. Prendergast (London, UK); S. Bleiziffer (Munich, DE)

- | | | |
|-------|---|------|
| 10:10 | Assessment of surgical bioprosthetic heart valves: thrombosis versus degeneration. | 3039 |
| | – A.J. Berrebi (Issy-les-Moulineaux, FR) | |
| 10:23 | CT to assess TAVR thrombosis. | 3040 |
| | – L. Sondergaard (Copenhagen, DK) | |
| 10:36 | When to image, how to treat? | 3041 |
| | – S.V. Pislaru (Rochester, US) | |

10:15–10:45 | Gaudi - The Hub

INCLUDING THE NEEDS OF PATIENTS IN THE MANAGEMENT OF ANGINA Satellite Symposium - Experts on the Spot

Sponsored by **SERVIER**

Chairperson(s): J.C. Kaski (London, UK); J.R. Gonzalez Juanatey (Santiago de Compostela, ES)

10:15 **Taking into account the patients' needs for effective management of angina.** 3042
 – J.C. Kaski (London, UK)

10:30 **Early combination therapy in angina.** 3043
 – J.R. Gonzalez Juanatey (Santiago de Compostela, ES)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 18:30–19:30 in Lisbon - Village 9.

10:15–10:45 | Goya - The Hub

ANTITHROMBOTIC STRATEGIES POST-PCI IN ATRIAL FIBRILLATION: NEW INSIGHTS, NEW APPROACH Satellite Symposium - Experts on the Spot

Sponsored by **Boehringer Ingelheim**

Chairperson(s): C.P. Cannon (Boston, US); G. Nickenig (Bonn, DE)

10:15 **Antithrombotic strategies post-PCI in atrial fibrillation: new insights, new approach.** 3044
 – C.P. Cannon (Boston, US), G. Nickenig (Bonn, DE)

Please refer to the Satellite Symposium scheduled on Monday 28 August, 12:45–13:45 in Skopje - Village 5.

10:15–10:45 | Miro - The Hub

DUAL ANTIPLATELET THERAPY AFTER AN ACUTE CORONARY SYNDROME: CONFRONTING THE DISPARITY BETWEEN GUIDELINES AND CLINICAL PRACTICE Satellite Symposium - Experts on the Spot

Sponsored by **AstraZeneca**

Chairperson(s): R. Mehran (New York, US)

10:15 **Welcome and introduction - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice.** 3045
 – R. Mehran (New York, US)

10:20 **Early initiation of dual anti-platelet therapy following an acute coronary syndrome: a clinical case study.** 3046
 – S. James (Uppsala, SE)

10:30 **Open questions - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice.** 3047
 – R. Mehran (New York, US), S. James (Uppsala, SE)

10:40 **Session close - Dual antiplatelet therapy after an acute coronary syndrome: confronting the disparity between guidelines and clinical practice.** 3048
 – R. Mehran (New York, US)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Bucharest - Village 8.

10:15–10:45 | Picasso - The Hub

STROKE PREVENTION IN ATRIAL FIBRILLATION: DISCUSSING OPTIMAL CARE WITH NOACS FOR COMPLEX PATIENTS Satellite Symposium - Experts on the Spot

Sponsored by **Bristol-Myers Squibb and Pfizer Alliance**

Chairperson(s): S.H. Hohnloser (Frankfurt, DE)

10:15 **Stroke prevention in atrial fibrillation: discussing optimal care with NOACs for complex patients.** 3049
 – S.H. Hohnloser (Frankfurt, DE), A.J. Budaj (Warsaw, PL), G.Y.H. Lip (Birmingham, UK)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 18:30–20:00 in Skopje - Village 5.

10:15–10:45 | ESC TV Stage - ESC Plaza

Today on ESC TV

MEET THE LEGENDS – WILLIAM WIJNS

Meet the Legends

Chairperson(s): C. Grines (Manhasset, US); P. Serruys (Rotterdam, NL)

10:15 **My scientific journey.** 3050
 – W. Wijns (Brussels, BE)

10:30 **Open forum discussion.** 3051

11:00–12:48 | Barcelona - Main Auditorium

HOT LINE: LATE-BREAKING CLINICAL TRIALS 2		Hot Line
Chairperson(s): S. Achenbach (Erlangen, DE); S.C. Clarke (Cambridge, UK)		
11:00	SPYRAL HTN OFF-MED Study. – M. Böhm (Homburg, DE)	3052
11:10	Discussant review: SPYRAL HTN OFF-MED Study. – B. Williams (London, GB)	3053
11:15	Panel discussion.	3054
11:18	Apixaban vs conventional therapy in anticoagulation-naive patients with atrial fibrillation undergoing cardioversion: The EMANATE Trial. – M.D. Ezekowitz (Villanova, US)	3055
11:28	Discussant review: Apixaban vs conventional therapy in anticoagulation-naive patients with atrial fibrillation undergoing cardioversion: The EMANATE Trial. – J.C. Nielsen (Aarhus, DK)	3056
11:33	Panel discussion.	3057
11:36	An international multicenter clustered randomized trial to IMProve treatment with oral AntiCoagulanTs in Atrial Fibrillation. – C.B. Granger (Durham, US)	3058
11:46	Discussant review: An international multicenter clustered randomized trial to IMProve treatment with oral AntiCoagulanTs in Atrial Fibrillation. – P. Kirchhof (Birmingham, UK)	3059
11:51	Panel discussion.	3060
11:54	The Viborg Vascular randomised screening trial. – J. Lindholt (Odense, DK)	3061
12:04	Discussant review: The Viborg Vascular randomised screening trial. – D. Levy (Framingham, US)	3062
12:09	Panel discussion.	3063
12:12	Impact of a single or two dose regimen of inclisiran, a novel siRNA inhibitor to PCSK9 on time averaged reductions in LDL-C over 1 year. ORION 1. – K.K. Ray (London, UK)	3064
12:22	Discussant review: Impact of a single or two dose regimen of inclisiran, a novel siRNA inhibitor to PCSK9 on time averaged reductions in LDL-C over 1 year. ORION 1. – P.J. Barter (Sydney, AU)	3065
12:27	Panel discussion.	3066
12:30	DETermination of the role of OXYgen in suspected Acute Myocardial Infarction. – R. Hofmann (Stockholm, SE)	3067
12:40	Discussant review: DETERmination of the role of OXYgen in suspected Acute Myocardial Infarction. – D.E. Newby (Edinburgh, UK)	3068
12:45	Panel discussion.	3069

11:00–12:30 | Spotlight Stage

Today on ESC TV 

MITRAL VALVE REPAIR		Live in the box
Live procedure recorded from the University Hospital of Zurich		
Chairperson(s): A.S. Petronio (Pisa, IT); A. Vahanian (Paris, FR); M. Mack (Plano, US); R. Hahn (New York, US)		
11:00	Mitral valve repair - Introduction. – A.S. Petronio (Pisa, IT)	3070
11:05	Tailoring percutaneous mitral valve repair – Options beyond a mitral clip. – H. Ince (Berlin, DE)	3071
11:20	What to do with tricuspid regurgitation after MV repair. – J. Rodes-Cabau (Quebec, CA)	3072
11:35	Mitral valve repair - Live in the box. – F. Maisano (Zurich, CH)	3073
12:15	Mitral valve repair - Discussion.	3074
12:25	Mitral valve repair - Conclusion. – A. Vahanian (Paris, FR)	3075

11:00–12:30 | Dali - The Hub

 Vote & Ask a Question

INFLAMMATION AND CARDIOVASCULAR DISEASE

Great Debate

Chairperson(s): X. Jouven (Paris, FR); F. Crea (Rome, IT)

11:00	Positioning of the topic - Inflammation and cardiovascular disease.	3076
	– T.F. Luscher (Zurich, CH)	
11:15	Inflammation plays a key role in coronary artery disease - PRO.	3077
	– P.M. Ridker (Boston, US)	
11:35	Inflammation plays a key role in coronary artery disease - CON.	3078
	– A. Catapano (Milan, IT)	
11:55	Inflammation plays a key role in coronary artery disease - Rebuttal PRO.	3079
	– P.M. Ridker (Boston, US)	
12:00	Inflammation plays a key role in coronary artery disease - Rebuttal CON.	3080
	– A. Catapano (Milan, IT)	
12:05	Inflammation and cardiovascular disease - Moderated discussion.	3081
12:20	Inflammation and cardiovascular disease - Conclusion.	3082
	– F. Crea (Rome, IT)	

11:00–12:30 | Gaudi - The Hub

BEST CARDIOVASCULAR RESEARCH IN JAMA AND JAMA CARDIOLOGY WITH INSIGHTS FROM THE EDITORS

Symposium

Joint with the JAMA and JAMA Cardiology

Chairperson(s): H. Bauchner (Chicago, US); F. Van de Werf (Leuven, BE)

11:00	To be announced.	3083
	– E. Peterson (Durham, US)	
11:22	To be announced.	3084
	– P. Greenland (Chicago, US)	
11:45	To be announced.	3085
	– R. Bonow (Chicago, US)	
12:07	Keys to successful submission.	3086
	– H. Bauchner (Chicago, US)	

11:00–12:30 | Goya - The Hub

Scientists of Tomorrow

THE CARDIOMYOCYTE CELL CYCLE: A TARGET FOR REGENERATION

Symposium

Chairperson(s): To be announced; K. Streckfuss-Boemeke (Göttingen, DE)

11:00	Mechanisms underlying cardiomyocyte proliferation in the regenerating zebrafish.	3087
	– C. Jopling (Montpellier, FR)	
11:22	Challenges in regenerating the mammalian heart.	3088
	– F.B. Engel (Erlangen, DE)	
11:45	Inducing cell cycle re-entry in the adult: lessons from the embryo.	3089
	– F. Rochais (Marseille, FR)	
12:07	Cardiomyocyte proliferation in the unloaded human ventricle.	3090
	– H.A. Sadek (Dallas, US)	

11:00–12:30 | Miro - The Hub

My NCS @ ESC GiP

ATRIAL FIBRILLATION ABLATION – THE “BIG PICTURE”

Special Session

Organised with the Russian Society of Cardiology

Chairperson(s): A.S. Revishvili (Moscow, RU); E.V. Shlyakhto (St. Petersburg, RU)

11:00	Portrait of a Russian patient.	3091
	– D. Duplyakov (Samara, RU)	
11:10	Top ten messages of the latest ESC Guidelines on atrial fibrillation ablation.	3092
	– E. Baranova (St. Petersburg, RU)	
11:25	Registry and survey information from Russia: problems and opportunities in improving care for atrial fibrillation ablation.	3093
	– E. Mikhaylov (St. Petersburg, RU)	
11:45	New since the last Guidelines: recent scientific developments in atrial fibrillation ablation.	3094
	– V. Ardashev (Moscow, RU)	
12:05	A typical patient for AF ablation.	3095
	– A. Romanov (Novosibirsk, RU)	
12:15	Moderated panel discussion: what is most important to optimise clinical management of atrial fibrillation ablation.	3096
	– V. Davtyan (Moscow, RU), M. Didenko (St. Petersburg, RU), A.S. Manolis (Glyfada-Athens, GR), A.S. Revishvili (Moscow, RU), E.V. Shlyakhto (St. Petersburg, RU), T. Szili-Torok (Rotterdam, NL)	

11:00–12:30 | Picasso - The Hub

LIPID LOWERING THERAPY IN PRIMARY CARDIOVASCULAR PREVENTION		Rapid Fire Abstract
Chairperson(s): U. Laufs (Homburg, DE); R. Slapikas (Kaunas, LT)		
11:00	Risk of incident atherosclerotic cardiovascular disease events by atherogenic lipid levels in a real-world population of 62,428 on-statin individuals with diabetes.	3097
– J.S. Rana, J.Y. Liu, H.M. Moffet, B. Susan, I. Khan, A.J. Karter (Oakland, Tarrytown and Bridgewater, US)		
11:09	Assessing gaps in cholesterol treatment guidelines for primary prevention of cardiovascular disease using clinical trial evidence: results from the prospective population-based Rotterdam Study.	3098
– M.J.G. Leening, J. Pavlovic, J.W. Deckers, M. Kavousi, A. Hofman, M.A. Ikram, P. Greenland, O.H. Franco (Rotterdam, NL; Boston and Chicago, US)		
11:18	External Validation of Pooled Cohort Equations using SPRINT Data.	3099
– T. Kuragaichi, Y. Kataoka, T. Miyamoto, Y. Sato (Amagasaki, JP)		
11:27	Effects of morning versus evening statin therapy on lipid profile: A systematic review and meta-analysis.	3100
– K. Awad, M.C. Serban, P. Penson, D.P. Mikhailidis, P.P. Toth, S.R. Jones, J. Rysz, M. Rizzo, G. Howard, G.Y.H. Lip, M. Banach (Zagazig, EG; Timisoara, RO; Liverpool, London and Birmingham, UK; Baltimore and Birmingham, US; Lodz, PL; Palermo, IT)		
11:36	Familial hypercholesterolemia: development of a next generation sequencing approach to the disease.	3101
– A. Volta, A.M. Gori, E. Grifoni, R. Marcucci, B. Giusti (Florence, IT)		
11:45	Comprehensive genotyping and phenotyping in patients with severe hypercholesterolemia.	3102
– H. Tada, A. Nomura, R. Teramoto, K. Hosomichi, M. Kawashiri, A. Nohara, H. Mabuchi, A. Tajima, M. Yamagishi (Kanazawa, JP)		
11:54	Elevated circulating PCSK9 concentrations predict subclinical atherosclerotic and metabolic changes in low risk obese and non-obese patients.	3103
– T. Stefan, J. Fedacko, T. Pekarova, D. Pella (Kosice, SK)		
12:03	Associations between cardiovascular disease, cancer and very low hdl cholesterol in the reasons for geographical and racial differences in stroke (REGARDS) study.	3104
– P. Penson, D.L. Long, G. Howard, V.J. Howard, S.R. Jones, S.S. Martin, D.P. Mikhailidis, P. Muntner, M. Rizzo, D.J. Rader, M.M. Safford, A. Sahebkar, P.P. Toth, M. Banach (Liverpool and London, UK; Birmingham, Baltimore, Philadelphia and New York, US; Palermo, IT; Mashad, IR; Lodz, PL)		
12:12	Evolocumab treatment in paediatric patients with homozygous familial hypercholesterolaemia: the Trial Assessing long-term Use of PCSK9 inhibition in Subjects with Genetic LDL disorders (TAUSSIG).	3105
– F. Raal, E. Bruckert, D. Blom, C. Kurtz, B. Coll, L. Tang, R. Somaratne, E.A. Stein (Johannesburg and Cape Town, ZA; Paris, FR; Thousand Oaks and Cincinnati, US)		
12:21	Patients with a diagnosis of hyperlipidaemia have a reduced risk of developing breast cancer and lower mortality rates: a large retrospective longitudinal cohort study from the UK ACALM registry.	3106
– P.R. Carter, H. Uppal, S. Chandran, K.R. Bainey, R. Potluri (Birmingham, UK; Edmonton, CA)		

11:00–12:30 | Agora 1 - Agora

DRUG TREATMENT OF ACUTE CORONARY SYNDROME PATIENTS		Rapid Fire Abstract
	Chairperson(s): A.J.M. Oude Ophuis (Beek-Ubbergen, NL); S. Schuepke (Munich, DE)	
11:00	New use of low-dose aspirin and risk of intracerebral haemorrhage, subdural haematoma and subarachnoid haemorrhage: associations by sex, case-fatality and trauma status in a large observational study.	3107
	– L.A. Garcia Rodriguez, M. Soriano-Gabarro, D. Gaist, L. Cea Soriano (Madrid, ES; Berlin, DE; Odense, DK)	
11:09	Antiplatelet effects of oral P2Y12-receptor inhibitor loading strategies for transitioning from cangrelor.	3108
	– W. Hochholzer, C. Stratz, P. Kleiner, I. Younas, C.M. Valina, N. Loeffelhardt, M. Amann, M. Ferenc, D. Trenk, F.J. Neumann (Bad Krozingen, DE)	
11:18	G-CSF effects on left ventricular function assessed with standard echocardiographic evaluation (biplane EF) and 2D myocardial strain in patients with STEMI and LV dysfunction.	3109
	– S. Righetti, E. Scanziani, F. Soffici, J. Sardella, C. Malafronte, P. Camisasca, I. Calchera, F. Cesana, F. Achilli (Monza, IT)	
11:27	Ticagrelor improves cardiac function and post-myocardial infarction healing: cardiac magnetic resonance imaging assessment of functional, anatomical and remodeling parameters.	3110
	– G. Mendieta, G. Vilahur, M. Gutierrez, L. Casani, C. Lambert, S. Ben-Aicha, L. Carlsson, A. Capdevila, G. Pons-Llado, F. Carreras, A. Hidalgo, L. Badimon (Barcelona, ES; Mölndal, SE)	
11:36	Genetic variability in PAR4 platelet response in relation to bleeding and ischemic outcomes: a genetic substudy of the TRACER trial.	3111
	– P. Tricoci, M. Neely, M. Whitley, L. Edelstein, L.M. Simon, C. Shaw, D.J. Moliterno, P.W. Armstrong, H.D. White, F. Van de Werf, L.K. Jennings, L. Wallentin, R.A. Harrington, K.W. Mahaffey, P.F. Bray (Durham, Philadelphia, Houston, Lexington, Memphis, Stanford and Salt Lake City, US; Edmonton, CA; Auckland, NZ; Leuven, BE; Uppsala, SE)	
11:45	Effectiveness and safety of ticagrelor compared with clopidogrel and prasugrel: results from a cohort study in the nationwide French claims and hospitalisation database (SNIIRAM).	3112
	– N. Danchin, P. Blin, B. Falissard, J. Benichou, L. Bonello, C. Dureau-Pourmin, J. Jove, R. Lassalle, C. Droz-Perroteau, F. Thomas-Deleccourt, J. Dallongeville, N. Moore (Paris, Bordeaux, Rouen, Marseille, Courbevoie and Lille, FR)	
11:54	Is aspirin needed after Takotsubo syndrome?: a propensity score sub-analysis of inter-tak registry.	3113
	– M.B. Bertaina, F.D.A. D'Ascenzo Fabrizio, M.I. Iannaccone, A.F.H. Frangieh, F.G. Gaita, C.T. Templin (Turin, IT; Munich, DE; Zurich, CH)	
12:03	Relationship between platelet aggregability and bleeding in patients with acute coronary syndromes submitted to surgical coronary revascularisation.	3114
	– C.A.K. Nakashima, B.A. Silva, L.A.O. Dallan, L.A.F. Lisboa, L.A. Hajjar, A.M. Soeiro, C.M.C. Strunz, L.M. Baracioli, R.H.M. Furtado, F.G. Lima, T.F. Dalcoquio, V.R.B. Benites, J.A.F. Ramires, R.K. Filho, J.C. Nicolau (São Paulo, BR)	
12:12	Does ticagrelor decrease the risk of recurrent fatal or non-fatal myocardial infarction in real-world settings? The AREMIS case-cohort study.	3115
	– L. Grimaldi-Bensouda, N. Danchin, J. Dallongeville, B. Falissard, A. Furber, Y. Cottin, L. Bonello, O. Morel, F. Leclercq, E. Puymirat, F. Ghanem, J. Benichou, L. Abenheim (Paris, Lille, Angers, Dijon, Marseille, Strasbourg, Montpellier, Châteauroux and Rouen, FR; London, UK)	
12:21	Hypothermia impairs platelet-function in resuscitated patients after myocardial infarction.	3116
	– D. Von Lewinski, O.L. Milke, L. Bis, F. Fruhwald, D. Scherr, S. Altmanninger-Sock, H. Sourij, S. Paetzold, J. Siller-Matula, F. Pruessler (Graz and Vienna, AT)	

11:00–12:30 | Agora 2 - Agora



TARGETING VERY LATE RESTENOSIS

Rapid Fire Abstract

Chairperson(s): L. Holmvang (Copenhagen, DK); Y. Onuma (Rotterdam, NL)

- 11:00 **Impact of neoatherosclerosis in lesions with in-stent restenosis evaluated by optical coherence tomography on mid-term outcome after plain old balloon angioplasty and drug coated balloon.** 3117
– D. Nakamura, M. Nishino, M. Yasunaga, K. Yanagawa, H. Nakamura, Y. Matsuhira, K. Yasumura, K. Yasumoto, A. Tanaka, N. Mori, M. Yano, Y. Egami, R. Shutta, J. Tanouchi (Sakai, JP)
- 11:09 **Temporal trends in PCI outcomes in the elderly: An analysis from the British Columbia Cardiac Registry.** 3118
– H. Contractor, J. Shin, W.T. Roberts, M.D. Fryer, L. Ding, C. Ng, I.J. Nadra, A. Della Siega, S.D. Robinson (Manchester, UK; Vancouver and Victoria, CA)
- 11:18 **Comparison of late catch-up phenomenon after second generation DES implantation with bare metal stent implantation assessed by optical coherence tomography.** 3119
– T. Kajija, J. Takaoka, N. Atsuchi, R. Arima, A. Miyamura, T. Inoue, T. Ninomiya, M. Nakahara, M. Kamimori, Y. Atsuchi, M. Ohishi (Kagoshima, JP)
- 11:27 **Long-term outcomes of different two-stenting bifurcation techniques for unprotected left main coronary bifurcation disease: a FAILS-2 substudy.** 3120
– M. Pavani, F. Conrotto, F. D'Ascenzo, H. Kawamoto, E. Cerrato, P. Scacciarella, C. Rolfo, R. Garbo, R. Velazquez, F. Varbella, M. D'Amico, A. Chieffo, F. Gaita, A. Colombo, J. Escaned (Turin, Milan and Rivoli, IT; Madrid, ES)
- 11:36 **Outcomes of patients with coronary CTOs up to 15 years follow-up: insights from the CLOSE study (coronary chronic total occlusions long term outcomes after successful percutaneous revascularization).** 3121
– L. Baldetti, C. Godino, A. Giannattasio, A. Munafo', F. Meillo, A. Beneduce, C.A. Pivato, A. Scotti, G. Perfetti, A.M. Cappelletti, V. Magni, M. Carlino, A. Margonato, A. Colombo (Milan, IT)
- 11:45 **Longterm comparative efficacy of drug-eluting stents versus bare metal stents in saphenous vein graft lesions: 5-year clinical follow-up of a randomized trial.** 3122
– R. Colleran, S. Kufner, C. Rosenbeiger, M. Joner, S. Cassese, I. Ott, M. Fusaro, T. Ibrahim, K.-L. Laugwitz, M. Abdel-Wahab, F.J. Neumann, G. Richardt, A. Kastrati, R.A. Byrne (Munich, Bad Segeberg and Bad Krozingen, DE)
- 11:54 **The impact of renal disease on target vessel revascularisation following percutaneous coronary intervention: a contemporary analysis of 45,287 patients from the British Columbia Cardiac Registry.** 3123
– N. Chandra, I. Nadra, L. Ding, S. Hardiman, A. Fung, E. Aymong, A.W. Chan, S. Hodge, J. Antonsen, K. Horgan, A. Levin, S. Robinson, A. Della Siega, B. Iqbal (London, UK; Victoria, CA)
- 12:03 **5-year clinical outcome following first-generation vs newer-generation coronary drug-eluting stent implantation: A pooled analysis of SORT OUT III, IV, and V studies.** 3124
– M. Maeng, E.H. Christiansen, B. Raungaard, S.D. Kristensen, C.J. Terkelsen, S.E. Jensen, J. Ravkilde, A. Junker, K.T. Veien, M. Madsen, H.E. Boetker, L.O. Jensen (Aarhus, Aalborg and Odense, DK)
- 12:12 **Lesional and clinical impact of drug-coating balloon on in-stent restenosis compared with conventional balloon angioplasty: a prospective multicentre optical coherence tomography registry.** 3125
– M. Kuroda, T.S. Shinke, H.O. Otake, H.O. Okamoto, N.H. Hiranuma, N.I. Igarashi, D.K. Kamoi, M.K. Kawata, M.K. Kadotani, K.Y. Yoshikawa, D.M. Matsumoto, Y.Y. Yasaka, S.J. Shite, K.H. Hirata (Kobe, Sumoto, Ako, Nagoya, Akashi, Kakogawa, Sanda, Osaka and Himeji, JP)
- 12:21 **Drug coated balloon efficacy for the treatment of instent restenosis.** 3126
– S. Eden, A. Solomonica, A. Musallam, S. Mishra, A. Eitan, E. Nikolsky, A. Kerner, S. Yalonetsky, A. Roguin (Haifa, IL)

11:00–12:30 | Dublin - Village 1

MECHANISMS OF HEART FAILURE WITH PRESERVED EJECTION FRACTION – IMPLICATIONS FOR TREATMENT

Symposium

Council on Basic Cardiovascular Science

Chairperson(s): D. Hilfiker-Kleiner (Hannover, DE); J. van der Velden (Amsterdam, NL)

- 11:00 **HFpEF: cardiomyocyte dysfunction and the stiff heart.** 3127
– W.A. Linke (Bochum, DE)
- 11:22 **HFpEF: fibroblast dysfunction and the stiff heart.** 3128
– J. Diez Martinez (Pamplona, ES)
- 11:45 **HFpEF: the contribution of oxidative stress.** 3129
– A.M. Shah (London, UK)
- 12:07 **HFpEF: the role of inflammation.** 3130
– V.P.M. van Empel (Maastricht, NL)

11:00–12:30 | Fira - Village 1

STATE OF THE ART IN PLATELET BIOLOGY

Advances in Science

- Chairperson(s): S. Massberg (Munich, DE); G.M. Montalescot (Paris, FR)
- 11:00 **State of the Art: state of art in platelet biology.** 3131
– C. Ghevaert (Cambridge, UK)
- 11:18 **Casein Kinase 2 is a critical regulator of platelet Ca²⁺ signaling and activation in arterial thrombosis.** 3132
– O. Borst, P. Muenzer, B. Walker-Allgaier, S. Geue, F. Langhauser, E. Geuss, D. Semeniak, D. Litchfield, T. Buchou, C. Kleinschnitz, F. Lang, H. Schulze, M. Gawaz (Tübingen, Würzburg and Essen, DE; London, CA; Grenoble, FR)
- 11:36 **Hyperlipidaemia associated oxidised phospholipids induce sustained platelet hyperactivity by CD36 and PLC gamma 2 dependent ROS production.** 3133
– M. Berger, K. Wraith, A. Aburima, C. Woodward, M. Hindle, M. Febbraio, K.M. Naseem (Aachen, DE; Hull, UK; Edmonton, CA)
- 11:54 **Advanced intra-embryonic in vivo imaging reveals distinct patterns of platelet generation from megakaryocytes in the fetal liver of transgenic mice.** 3134
– M. Orban, H. Liu, H. Ishikawa-Ankerhold, K. Bierl, C. Stremmel, M. Lorenz, C. Schulz, S. Dietzel, S. Massberg (Munich, DE)
- 12:12 **Future opportunities and clinical changes in platelet biology.** 3135
– R. De Caterina (Chieti, IT)

11:00–12:30 | Astana - Village 2

 Ask a Question

CHALLENGES IN THE MANAGEMENT OF HYPERTENSION
Joint with the European Society of Hypertension

Symposium

- Chairperson(s): E. Agabiti-Rosei (Brescia, IT); J. Brguljan (Ljubljana, SI)
- 11:00 **A patient with coronary artery disease and high blood pressure - What blood pressure target?** 3136
– C. Tsioufis (Athens, GR)
- 11:22 **Acute decline in GFR after blood pressure treatment - What to do?** 3137
– J. Redon (Valencia, ES)
- 11:45 **Managing hypertension in the elderly - When to start and how low to go?** 3138
– S.E. Kjeldsen (Oslo, NO)
- 12:07 **Uncomplicated stage 1 hypertension in the young - To treat or not to treat?** 3139
– D. Gaita (Timisoara, RO)

11:00–12:30 | Pristina - Village 2

THE USE OF ORAL ANTICOAGULANTS IN SPECIAL SITUATIONS

Symposium

- Chairperson(s): B. Rocca (Rome, IT); S. Agewall (Oslo, NO)
- 11:00 **NOACs in kidney failure: why, how, when and when not?** 3140
– F. Andreotti (Rome, IT)
- 11:22 **NOACs in patients undergoing cardioversion or ablation.** 3141
– F.W.A. Verheugt (Amsterdam, NL)
- 11:45 **NOACs vs vitamin K antagonist in patients with extreme body weights.** 3142
– J.-P. Collet (Paris, FR)
- 12:07 **Panel discussion: the use of oral anticoagulants in special situations.** 3143

11:00–12:30 | Beirut - Village 3

LATE-BREAKING SCIENCE IN IMAGING

Late-Breaking Science

- Chairperson(s): B.A. Popescu (Bucharest, RO); F.J. Pinto (Lisbon, PT)
- 11:00 **Myocardial Scar Predicts Mortality in Severe Aortic Stenosis: Data from the BSCMR Valve Consortium.** 3144
– T.A. Treibel (London, UK)
- 11:15 **A myocardial perfusion 320 MDCT guided strategy increases the diagnostic accuracy for the clinical management of patients with recent acute-onset chest pain.** 3145
– M.H. Soergaard (Birkerød, DK)
- 11:30 **Coronary Atherosclerotic Precursors of Acute Coronary Syndromes: Results from the ICONIC (Incident COroNary Syndromes Identified by Computed Tomography).** 3146
– J.K. Min (New York, US)
- 11:45 **Effects of Statins on Coronary Atherosclerosis.** 3147
– H. Chang (Seoul, KR)
- 12:00 **Danish study of Non Invasive testing in Coronary Artery Disease.** 3148
– L. Nissen (Herning, DK)
- 12:15 **The Prognostic Value of Coronary Artery Calcium in the PROMISE Study.** 3149
– M. Ferencik (Portland, US)

11:00–12:30 | Riga - Village 3



CARDIAC MRI – WHAT THE CARDIOLOGIST NEEDS TO KNOW

Meet the Experts case discussions

Chairperson(s): R. Nijveldt (Amsterdam, NL); S. Plein (Leeds, UK)

11:00	Cardiac MRI – What the cardiologist needs to know – Introduction to the session.	3150
	– R. Nijveldt (Amsterdam, NL)	
11:05	Assessment of coronary artery disease.	3151
	– M. Westwood (London, UK)	
11:15	Assessment of coronary artery disease – Panel discussion & questions from the audience.	3152
	– P.M. Elliott (London, UK), P. Nihoyannopoulos (London, UK), J.S. Schwitler (Lausanne, CH)	
11:30	Heart failure.	3153
	– C. Bucciarelli-Ducci (Bristol, UK)	
11:40	Heart failure – Panel discussion & questions from the audience.	3154
	– P.M. Elliott (London, UK), P. Nihoyannopoulos (London, UK), J.S. Schwitler (Lausanne, CH)	
11:55	Hypertrophic cardiomyopathy.	3155
	– M. Desai (Cleveland, US)	
12:05	Hypertrophic cardiomyopathy – Panel discussion & questions from the audience.	3156
	– P.M. Elliott (London, UK), P. Nihoyannopoulos (London, UK), J.S. Schwitler (Lausanne, CH)	
12:20	Cardiac MRI – What the cardiologist needs to know – Take home message on the cases presented.	3157
	– S. Plein (Leeds, UK)	

11:00–12:30 | Chisinau - Village 4



IMPLEMENTING EXERCISE AND A HEALTHY DIET

Guidelines in Daily Practice

Chairperson(s): L. Kopin (Rochester, US); M.F. Piepoli (Piacenza, IT)

11:00	Implementing a daily exercise programme.	3158
	– M. Wilhelm (Bern, CH)	
11:15	Implementing a daily exercise programme – What do the prevention guidelines say?	3159
	– M. Tiberi (Pesaro, IT)	
11:30	Implementing a daily exercise programme. How to implement Guidelines – Panel discussion.	3160
	– C. Deaton (Cambridge, UK), J. Perk (Oskarshamn, SE)	
11:40	Implementing a daily exercise programme – Conclusion and take home message.	3161
	– L. Kopin (Rochester, US)	
11:45	Changing to a healthy diet.	3162
	– E.B. Schmidt (Aalborg, DK)	
12:00	Changing to a healthy diet – What do the guidelines say?	3163
	– M. Verschuren (Bilthoven, NL)	
12:15	Changing to a healthy diet. How to implement Guidelines – Panel discussion.	3164
	– C. Deaton (Cambridge, UK), J. Perk (Oskarshamn, SE)	
12:25	Changing to a healthy diet – Conclusion and take home message.	3165
	– M.F. Piepoli (Piacenza, IT)	

11:00–12:30 | Vilnius - Village 4

TAKING CARE OF PATIENTS WITH GROWN-UP CONGENITAL HEART DISEASE

Symposium

Chairperson(s): T.M. Norekval (Bergen, NO); K. Siebens (Waarloos, BE)

11:00	Health care needs of adolescents with congenital heart disease: transition into adulthood.	3166
	– E.-L. Bratt (Gothenburg, SE)	
11:22	Quality of life in adult congenital heart disease: what do we already know and what do we still need to know?	3167
	– M.A. Sluman (Weesp, NL)	
11:45	Exercise in GUCH: benefit or harm.	3168
	– J.W. Roos-Hesselink (Rotterdam, NL)	
12:07	Recommendations for starting a GUCH unit.	3169
	– A.M. Van Berendoncks (Edegem, BE)	

11:00–12:30 | Skopje - Village 5

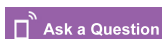
CABLE-FREE, HASSLE-FREE? WHAT IS THE BENEFIT OF LEADLESS TECHNOLOGIES FOR PACING, DEFIBRILLATION AND CRT?

Symposium

Chairperson(s): P.E. Vardas (Heraklion, GR); J. Steffel (Zurich, CH)

11:00	Leadless cardiac pacing: technologies and recent data.	3170
	– V. Reddy (New York, US)	
11:22	Subcutaneous defibrillation: indications and outcome of clinical trials.	3171
	– P. Lambiase (London, UK)	
11:45	Cardiac resynchronisation with leadless technologies: approaches and perspectives.	3172
	– A. Auricchio (Lugano, CH)	
12:07	Beyond leads and devices: biological pacemakers.	3173
	– L. Gepstein (Haifa, IL)	

11:00–12:30 | Valetta - Village 5



ABLATING ATRIAL FIBRILLATION: LET'S TARGET THE COMPLEX PATHOPHYSIOLOGY

Symposium

Chairperson(s): C. Blomstrom-Lundqvist (Uppsala, SE); L. Mont (Barcelona, ES)

- 11:00 **Atrial fibrillation: is it an atrial cardiomyopathy?** 3174
– A. Goette (Paderborn, DE)
- 11:22 **The role and reliability of MRI to detect atrial fibrosis.** 3175
– N. Marrouche (Salt Lake City, US)
- 11:45 **Atrial fibrosis: is it driving atrial fibrillation? Is it an ablation target?** 3176
– D. Kotecha (Birmingham, UK)
- 12:07 **Persistent and chronic atrial fibrillation. The ablation outcomes.** 3177
– G. Hindricks (Leipzig, DE)

11:00–12:30 | Bishkek - Village 6



CORONARY ARTERY ANGIOPLASTY: LESSONS LEARNED FROM THE PAST 40 YEARS AND A LOOK INTO THE FUTURE

Symposium

Joint with the American College of Cardiology

Chairperson(s): C.W. Hamm (Bad Nauheim, DE); R. Chazal (Fort Myers, US)

- 11:00 **Coronary artery angioplasty: then and now.** 3178
– D.J. Moliterno (Lexington, US)
- 11:22 **Impact of risk scores for coronary revascularisation.** 3179
– T. Gershlick (Leicester, UK)
- 11:45 **New insights into the detection of vulnerable plaque.** 3180
– V. Fuster (New York, US)
- 12:07 **The concept of plaque sealing.** 3181
– B. Meier (Bern, CH)

11:00–12:30 | Luxembourg - Village 6



APPROVAL PROCESSES FOR MEDICAL DEVICES – UNDERSTANDING CLINICAL AND REGULATORY PERSPECTIVES – SPOTLIGHT ON CORONARY STENTS

Symposium

Chairperson(s): P. Kearney (Cork, IE); P.W.J.C. Serruys (Rotterdam, NL)

- 11:00 **The regulatory landscape in Europe: challenges and opportunities of the new EU Medical Devices Regulation.** 3182
– A.G. Fraser (Cardiff, UK)
- 11:15 **Developing device-specific common standards in Europe. The regulators' perspective.** 3183
– C. Griesinger (Ispra, IT)
- 11:30 **Clinical evaluation of coronary stents and bio-resorbable stents: ESC/EAPCI engagement with the EU regulatory system.** 3184
– R.A. Byrne (Munich, DE)
- 11:45 **Marketing of medical devices in the US & Europe: focus on regulatory requirements and patient access.** 3185
– R. Waksman (Washington, US)
- 12:00 **Regulation and innovation: balancing innovation with evidence - A perspective from industry.** 3186
– D. Dineen (San Francisco, US)
- 12:15 **Panel discussion: device regulation.** 3187

11:00–12:30 | Podgorica - Village 6

ASYMPTOMATIC CAROTID STENOSIS – A TAILORED MANAGEMENT

Symposium

Chairperson(s): E. Messas (Paris, FR); W. Doehner (Berlin, DE)

- 11:00 **Medical treatment for the asymptomatic carotid stenosis patient: how useful is it?** 3188
– M. Ferrini (Lyon, FR)
- 11:22 **When to revascularise asymptomatic carotid stenosis.** 3189
– J.B. Ricco (Poitiers, FR)
- 11:45 **Carotid stenting: where are we now?** 3190
– M. De Carlo (Pisa, IT)
- 12:07 **Carotid surgery - Still the standard?** 3191
– J. Gorcsan (Pittsburgh, US)

11:00–12:30 | Oslo - Village 7



PULMONARY EMBOLISM: DILEMMAS IN PRACTICAL MANAGEMENT

Guidelines in Daily Practice

Chairperson(s): A. Torbicki (Otwock, PL); S. Rosenkranz (Cologne, DE)

11:00	A patient with low-risk pulmonary embolism: home treatment? – C. Becattini (Perugia, IT)	3192
11:15	A patient with low-risk pulmonary embolism: home treatment? What do the Guidelines say. – M.V. Huisman (Leiden, NL)	3193
11:30	A patient with low-risk pulmonary embolism: home treatment? How to implement Guidelines – Panel discussion. – C. Ay (Vienna, AT), N. Meneveau (Besançon, FR)	3194
11:40	A patient with low-risk pulmonary embolism: home treatment? Conclusion and take home message. – S. Rosenkranz (Cologne, DE)	3195
11:45	A patient with intermediate-risk pulmonary embolism: is there a role for reperfusion? – G. Meyer (Paris, FR)	3196
12:00	A patient with intermediate-risk pulmonary embolism: is there a role for reperfusion? What do the guidelines say. – S.V. Konstantinides (Mainz, DE)	3197
12:15	A patient with intermediate-risk pulmonary embolism: is there a role for reperfusion? How to implement Guidelines – Panel discussion. – C. Ay (Vienna, AT), N. Meneveau (Besançon, FR)	3198
12:25	A patient with intermediate-risk pulmonary embolism: is there a role for reperfusion? Conclusion and take home message. – A. Torbicki (Otwock, PL)	3199

11:00–12:30 | Rabat - Village 7

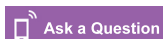
TREATMENT DECISIONS IN AORTIC VALVE STENOSIS

Symposium

Chairperson(s): C.M. Otto (Seattle, US); L.A. Pierard (Liège, BE)

11:00	Asymptomatic severe aortic stenosis. – P. Genereux (Montreal, CA)	3200
11:22	Low flow/low gradient aortic stenosis. – P. Pibarot (Quebec, CA)	3201
11:45	Moderate aortic stenosis and heart failure. – N.M.D.A. van Mieghem (Rotterdam, NL)	3202
12:07	Aortic stenosis with concomitant mitral regurgitation. – W.A. Zoghbi (Houston, US)	3203

11:00–12:30 | Bucharest - Village 8



PHARMACOTHERAPY AFTER STEMI: CURRENT CONCEPTS

Symposium

Chairperson(s): K.A.A. Fox (Edinburgh, UK); S. Smith (Chapel Hill, US)

11:00	Routine beta-blockers: after STEMI: end of an old dogma? – J.S. Alpert (Tucson, US)	3204
11:22	New strategies for lipid lowering in patients after STEMI: ready for prime time? – F. Mach (Geneva, CH)	3205
11:45	Dual antiplatelet therapy beyond 12 months? – D.L. Bhatt (Newton, US)	3206
12:07	Oral anticoagulation in patients after STEMI - Old data, new trials and clinical advice. – D. Atar (Oslo, NO)	3207

11:00–12:30 | Tripoli - Village 8

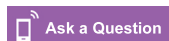
PREDICTING AND PREVENTING ACUTE EVENTS IN PATIENTS WITH STABLE CORONARY ARTERY DISEASE

Advances in Science

Chairperson(s): C.P. Cannon (Boston, US); W.A. Wan Ahmad (Kuala Lumpur, MY)

- 11:00 **State of the Art: what we know about the “vulnerable plaque”.** 3208
– M. Joner (Munich, DE)
- 11:18 **High-risk coronary plaque is an independent predictor of major adverse cardiovascular events in patients with stable chest pain: Results from PROMISE.** 3209
– M. Ferencik, T. Mayrhofer, D. Bittner, H. Emami, S. Puchner, M. Lu, N. Meyersohn, A. Ivanov, E. Adami, M. Patel, D. Mark, J. Udelson, K. Lee, P. Douglas, U. Hoffmann (Portland, Boston and Durham, US; Erlangen, DE; Vienna, AT)
- 11:36 **Long-term follow-up of patients with non-obstructive coronary artery disease presenting with stable angina.** 3210
– C.K. Kissel, G. Chen, D.A. Southern, P.D. Galbraith, T.J. Anderson (Zurich, CH; Calgary, CA)
- 11:54 **Stable chest pain: can we further reduce patients’ risk or are we trying to diagnose the undiagnosable?** 3211
– D. Cosmi, B. Mariotoni, F. Cosmi (Gubbio and Cortona, IT)
- 12:12 **Update and future of secondary prevention.** 3212
– P.G. Steg (Paris, FR)

11:00–12:30 | Lisbon - Village 9



THE HEART FAILURE SUMMIT

Symposium

Chairperson(s): M. Packer (Dallas, US); F. Ruschitzka (Zurich, CH)

- 11:00 **Medical treatment of chronic heart failure - Recommendations for clinical practice.** 3213
– A.A. Voors (Groningen, NL)
- 11:22 **How to manage acute heart failure: The road ahead after TRUE-AHF and RELAX-AHF.** 3214
– M. Metra (Brescia, IT)
- 11:45 **An optimistic view on remote monitoring in heart failure.** 3215
– B. Assmus (Frankfurt, DE)
- 12:07 **Panel discussion: the future of heart failure management.** 3216

11:00–12:30 | Warsaw - Village 9

HEART FAILURE WITH PRESERVED EJECTION FRACTION – A CLINICAL DILEMMA

Symposium

Chairperson(s): F.H. Messerli (New York, US); M.L. Simoons (Rotterdam, NL)

- 11:00 **HFpEF: the scope of the problem.** 3217
– S. Solomon (Boston, US)
- 11:22 **How to establish the diagnosis of HFpEF.** 3218
– C. Tschoepe (Berlin, DE)
- 11:45 **HFpEF: is it just the comorbidities?** 3219
– J. Bauersachs (Hannover, DE)
- 12:07 **Treatment of HFpEF: drugs and devices on the horizon.** 3220
– M. Pfeffer (Boston, US)

08:30–18:00 | Posters - Poster Area

LATE-BREAKING SCIENCE POSTERS PCI

Poster Session

Late-Breaking Science Posters are on display from 08:30 to 18:00.
From 15:35-16:25 trialists presenters will summarise their research and address questions from the Chairpersons and Audience.

Chairperson(s): To be announced

The platelet aggregation with ticagrelor inhibition and Fentanyl randomized trial.	P3221
– J.W. McEvoy (Baltimore, US)	
Clinical outcomes utilizing revascularization and aggressive drug evaluation.	P3222
– G.B.J. Mancini (Vancouver, CA)	
Stroke after coronary revascularization: an individual patient data pooled analysis of 11 randomised trials comparing percutaneous coronary intervention with coronary artery bypass grafting.	P3223
– S. Head (Amsterdam, NL)	
The EROSION study (Effective Anti-thrombotic Therapy without Stenting: Intravascular OCT-based Management in Plaque Erosion): a 1-year follow up study.	P3224
– I.-K. Jang (Boston, US)	
A comparison of reduced-dose prasugrel and standard-dose clopidogrel in elderly patients with acute coronary syndromes undergoing early percutaneous revascularization: final results of the Elderly-ACS.	P3225
– S. Savonitto (Lecco, IT)	

08:30–12:30 | Best poster screen - Poster Area

BEST POSTERS 4

Best Posters

Discussant intervention 10:05–10:55

Best Posters are on display from 08:30 to 12:30 on the Best Posters plasma screen of the related topic. During the viewing time (10:05–10:55), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN PERIPHERAL ARTERY DISEASE

Discussant: Best Posters in peripheral artery disease.	P3226
– M. Brodmann (Graz, AT), M. Venermo (Helsinki, FI)	
Mortality rates in hypertensive subjects with peripheral arterial disease: detection of a J-curve phenomenon.	P3227
– K. Farkas, E. Kolossvary, Z. Jarai, A. Paksy, I. Kiss (Budapest, HU)	
Dual vs single antiplatelet therapy in patients with peripheral artery disease: meta-analysis of randomized trials.	P3228
– A. Petrescu, M. Kolodziejczak, M. Kowalewski, E.P. Navarese (Munich, DE; Bydgoszcz, PL; Rome, IT)	
Lipoprotein apheresis in patients with peripheral artery disease and lipoprotein(a)-hyperlipoproteinemia: 2-year follow-up of a prospective single center study.	P3229
– W.C. Poller, A. Berger, H. Dreger, S. Morgera, K. Enke-Melzer (Berlin, DE)	
The association of blood glucose and diabetes with peripheral arterial disease involving different vascular territories: results from 628 246 people who attended vascular screening.	P3230
– D.R. Morris, P. Sherliker, R. Clack, H. Lam, J. Carter, A. Halliday, R. Bulbulia, S. Lewington (Oxford, UK)	

BEST POSTERS IN e-CARDIOLOGY

Discussant: Best Posters in e-cardiology.	P3231
– I. Simova (Sofia, BG), N. Mesanovic (Tuzla, BA)	
Non-publication of clinical trials in cardiovascular medicine: a retrospective, cross-sectional analysis.	P3232
– A. Roddick, S. Zheng (London, UK)	
Cross-institute validation of an engine that automatically detects actionable quality assurance (QA) rules for echocardiogram reporting.	P3233
– M. Sevenster, D.H. Liang, T.A. Forsberg, Y. Jia, K.T. Spencer (Cambridge and Chicago, US; Suresnes, FR)	
Usefulness of posterior leads derived from the 18-lead electrocardiogram in the diagnosis of posterior myocardial infarction.	P3234
– Y. Igarashi, T. Chikamori, S. Hida, K. Hirose, T. Saito, A. Yamashina (Tokyo, JP)	
Artificial intelligence in cardiology by clinical decision support system to predict correct diagnosis in subjects with stable chest pain from ARTICA co-operative database.	P3235
– M. Mazzanti, F. Pugliese, A. Goda, A. Rossi, A. Pottle, E. Hasimi, H. Gjergo, E. Shirka, V. Paparisto, N. Dent, N. Mackay, S.R. Underwood (London, UK; Tirana, AL)	

BEST POSTERS IN COMORBIDITIES IN HEART FAILURE

- Discussant: Best Posters in comorbidities in heart failure.** P3236
 – A. Flammer (Zurich, CH), L.S. Maier (Regensburg, DE)
- One-year clinical outcomes and management of patients with ischaemic vs non-ischaemic cardiomyopathy and newly diagnosed atrial fibrillation: results from GARFIELD-AF.** P3237
 – R. Corbalan, J.-P. Bassand, W. Al Mahmeed, G. Ambrosio, H. Gao, H. Gibbs, S.Z. Goldhaber, C. Jerjes-Sanchez, J.-Y. Le Heuzey, E. Panchenko, A. Parkhomenko, A.C. Pereira Barretto, J. Steffel, J. Stepinska, A.K. Kakkur (Santiago, CL; London, UK; Abu Dhabi, AE; Perugia, IT; Melbourne, AU; Boston, US; Monterrey, MX; Paris, FR; Moscow, RU; Kiev, UA; São Paulo, BR; Zurich, CH; Warsaw, PL)
- Risk of first ischemic cerebrovascular event in a cohort of incident heart failure patients.** P3238
 – A. Michel, M. Martin-Perez, A. Ruigomez, L.A. Garcia Rodriguez (Berlin, DE; Madrid, ES)
- Poor outcome in chronic heart failure patients with thyroid hormones deficiencies.** P3239
 – P. Terlizze, D. Grande, C. Rizzo, G. Parisi, M.I. Gioia, T. Leopizzi, A. Segreto, M.S. Lattarulo, B. Licchelli, V. Triggiani, M. Iacoviello (Bari, IT)
- Vitamin D deficiency is an independent predictor of mortality in patients with chronic heart failure.** P3240
 – K.K. Witte, R.M. Cubbon, J.E. Lowry, M. Drozd, M. Hall, J. Gierula, M.F. Paton, R. Byrom, L.C. Kearney, J.H. Barth, D.A. Cairns, M.T. Kearney (Leeds, UK)

BEST POSTERS IN SPORTS CARDIOLOGY

- Discussant: Best Posters in sports cardiology.** P3241
 – J. Niebauer (Salzburg, AT), U. Nixdorff (Düsseldorf, DE)
- Prolonged release of cardiac troponin I after endurance exercise could indicate silent coronary artery disease in recreational athletes: the NEEDED study 2014.** P3242
 – O. Kleiven, M. Bjoerkavoll-Bergseth, O.E. Skadberg, T. Melberg, B. Auestad, O.J. Greve, K.M. Aakre, T. Omland, S. Orn (Stavanger, Bergen and Oslo, NO)
- Prognostic impact of physical activity just before out-of-hospital cardiac arrest due to myocardial ischemia.** P3243
 – N. Kuroki, D. Abe, K. Suzuki, T. Aoyama, H. Hirano, T. Sassa, K. Ohashi, A. Takayama, T. Harunari, Y. Yui, T. Yuba, Y. Hamabe, T. Iwama, A. Sato (Tokyo and Tsukuba, JP)
- The mixed race heart: not so black and white.** P3244
 – A. Malhotra, H. Dhutia, P. Rao, S. Gati, T. Ketepee-Arachi, G. Finnochiario, T.J. Yeo, J. Basu, G. Parry-White, A. D'Silva, S. Papatheodorou, B. Ensam, M. Tome, M. Papadakis, S. Sharma (London, UK)

BEST POSTERS IN GENOMICS TO THERAPY

- Discussant: Best Posters in genomics to therapy.** P3245
 – N. Yunka (Zbarazh, UA), R. Ter Bekke (Maastricht, NL)
- Systematic analysis of cardiac disease genes in pediatric cardiomyopathy patients identifies novel genetic variants.** P3246
 – J. Kuehnisch, C. Herbst, N. Al-Wakeel, F. Degener, J. Dartsch, D. Messroghli, F. Berger, S. Klaassen (Berlin, DE)
- Polymorphisms of the ALOX5AP gene (5-lipoxygenase activating protein) are associated with increased cardiovascular risk in patients with acute coronary syndrome: Analysis of PLATO genetics sub-study.** P3247
 – C. Balendran, N. Eriksson, C. Whatling, A. Walentinsson, S. Skrtic, A. Akerblom, K. Jensevik, L. Wallentin (Gothenburg and Uppsala, SE)
- Investigating dilated cardiomyopathy caused by dystrophin mutations using duchenne muscular dystrophy-patients induced pluripotent stem cell-derived cardiomyocytes.** P3248
 – B. Eisen, R. Ben Jehuda, L. Mekies, Y. Shemer, A.J. Cuttitta, L. Monserrat, M. Gherghiceanu, M. Arad, D. Freimark, D.E. Michele, O. Binah (Haifa and Ramat Gan, IL; Ann Arbor, US; A Coruña, ES; Bucharest, RO)
- The endocannabinoid system is a novel therapeutic target for muscular dystrophy cardiomyopathy.** P3249
 – A. Gowran, F. Casalnuovo, V. Vigorelli, G. Spaltro, P. Nigro, V. Petrucci, J. Gertsch, A. Chicca, G. Pompilio (Milan, IT; Bern, CH)

BEST POSTERS IN ADVANCED RISK ASSESSMENT IN VALVULAR DISEASE

Discussant: Best Posters in advanced risk assessment in valvular disease. **P3250**
 – P. Hoffman (Warsaw, PL), W.-K. Ng (Kuala Lumpur, MY)

Prognostic value of global longitudinal strain in patients undergoing valve surgery for severe organic mitral regurgitation. **P3251**

– Y.L. Hiemstra, A. Tomsic, S.E. Van Wijngaarden, M. Palmén, J.J. Bax, V. Delgado, N. Ajmone Marsan (Leiden, NL)

Prospective study of tricuspid valve regurgitation associated with permanent leads in patients undergoing cardiac rhythm device implantation. **P3252**

– C.M. Van De Heyning, E. Elbarasi, S. Masiero, M. Brambatti, S. Ghazal, S. Al-Maashani, L. Buikema, D. Leong, B. Shivalkar, C. Morillo, S. Divarakamenon, G. Amit, S. Connolly, J. Healey, H. Dokainish (Antwerp, BE; Hamilton, CA; Ancona, IT)

Quantification of risk of infective endocarditis in patients considered at high risk by guidelines - A nationwide study. **P3253**

– L. Ostergaard, N. Valeur, N. Ihlemann, H. Bundgaard, G. Gislason, C. Torp-Pedersen, N.E. Bruun, L. Sondergaard, L. Kober, E.L. Fosbol (Copenhagen and Aalborg, DK)

Long term risk of hemorrhagic stroke in patients with infective endocarditis: a nationwide danish cohort study. **P3254**

– C.F.K. Falk Klein, S.G. Gortz, J.W. Wohlfahrt, T.N.M. Norgaard Munch, M.M. Melbye, H.B. Bundgaard, K.K.I. Karmark Iversen (Copenhagen, DK)

BEST POSTERS IN HYPERTENSION IN WOMEN

Discussant: Best Posters in hypertension in women. **P3255**
 – M. Brown (Kogarah, AU), L. Dizdarevic-Hudic (Tuzla, BA)

Pregnant women with gestational hypertension or preeclampsia had lower global and regional left ventricular systolic function by comparison with normotensive pregnant women. **P3256**

– N. Patrascu, L.F. Trasca, D. Mihalcea, L. Lungeanu Juravle, R. Bruja, M.S. Neagu, M. Cirstoiu, D. Vinereanu (Bucharest, RO)

The impact of maternal hemodynamics on preterm delivery and intrauterine growth restriction in gestational hypertension. **P3257**

– A. Ilic, J. Papovic, A. Milovancev, S. Stojic, D. Grkovic, M. Bjelobrk, T. Miljkovic, A. Stojic-Milosavljevic, S. Tadic, M. Stefanovic, D.J. Ilic (Sremska Kamenica and Novi Sad, RS)

Echocardiographic assessment of left ventricular structure and function in hypertensive disorders of pregnancy at six months post partum. **P3258**

– D. Chen, G. Youssef, G. Mangos, L. Roberts, A. Henry, G. Davis, C. Homer, F. Pettit, M. Brown (Sydney, AU)

Early markers of atherosclerosis and cardiovascular risk in women with hypertension and hypothyroidism. **P3259**

– V. Romanov, O. Mitchenko, I. Chulaevska, G. Iliushina (Kiev, UA)

BEST POSTERS IN ICD THERAPY

Discussant: Best Posters in ICD therapy. **P3260**
 – R. Hatala (Bratislava, SK), J. Poole (Seattle, US)

SVT discrimination algorithms significantly reduce the rates of inappropriate therapies in the setting of modern day delayed high-rate detection programming. **P3261**

– A. Cheng, A. Auricchio, E.J. Schloss, L.D. Sterns, B.E.W. Gerritse, T. Kurita, A. Meijer, M. Brown, K. Ellenbogen (Minneapolis, Cincinnati and Richmond, US; Lugano, CH; Victoria, CA; Maastricht and Eindhoven, NL; Osaka, JP)

Burden of non-sustained ventricular tachycardias occurring early after an ICD implant: long-term effect on the electrical therapies due to Monomorphic Ventricular Tachycardias. **P3262**

– J. Jimenez-Candil, O. Duran, J. Hernandez, J. Morinigo, L. Bravo, P.L. Sanchez (Salamanca, ES)

North American compliance with the shock reduction programming recommendations. **P3263**

– M. Bennett, J.G. Andrade, J. Koehler, K. Nathan, N. Hawkins, H. McNish, A. Russo, A.D. Krahn, M. Brown (Vancouver, CA; Mounds View and Camden, US)

BEST POSTERS IN STEMI: CHALLENGES AND PROGNOSIS

<p>Discussant: Best Posters in STEMI: challenges and prognosis. – R.M. Mathew (Cochin, IN), M.J. Claeys (Edegem, BE)</p>	<p>P3264</p>
<p>T1 and T2 mapping cardiovascular magnetic resonance is not able to differentiate between infarcted and salvaged myocardium in reperfused STEMI patients. – M.X. Lim, H. Bulluck, J.A. Bryant, M. Chan, X.W. Tan, D.J. Hausenloy (Singapore, SG; London, UK)</p>	<p>P3265</p>
<p>Differential impact of impaired renal function and acute heart failure on short- and long-term mortality in patients undergoing primary PCI for STEMI. – I. Zivkovic, D. Milasinovic, J. Dobras, S. Zaharijev, Z. Mehmedbegovic, A. Pavlovic, M. Radomirovic, M. Stevanovic, D. Matic, V. Dedovic, A.D. Ristic, P.M. Seferovic, V. Vukcevic, M. Asanin, G. Stankovic (Belgrade, RS)</p>	<p>P3266</p>
<p>High rates of 30-day mortality in younger women presenting with STEMI: the ISACS Study. – E. Cenko, B. Ricci, P.L. Amaduzzi, Z. Vasiljevic, M. Dorobantu, M. Zdravkovic, S. Hinic, L. Lucian Calmac, S. Kedev, O. Kalpak, D. Milicic, O. Manfrini, A. Koller, L. Badimon, R. Bugiardini (Bologna, IT; Belgrade, RS; Bucharest, RO; Skopje, MK; Zagreb, HR; Budapest, HU; Barcelona, ES)</p>	<p>P3267</p>
<p>Prognostic impact of residual SYNTAX score in patients with ST-elevation myocardial infarction and multivessel disease: analysis of an 8-year all-comers registry. – A.B. Cid Alvarez, C. Galvao Braga, A. Redondo Dieguez, R. Trillo Nouche, X. Sanmartin Pena, D. Lopez Otero, A. Avila Carrillo, B. Alvarez Alvarez, A. Abellas Sequeiros, V. Gonzalez Salvado, D. Iglesias Alvarez, P. Rigueiro Veloso, J.M. Garcia Acuna, M. Pedreira Perez, J.R. Gonzalez Juanatey (Santiago de Compostela, ES)</p>	<p>P3268</p>

Posters are on display from 08:30 to 12:30. Presenters will be by their poster during the coffee break between 10:00 and 11:00 for posters viewing time.

CARDIOVASCULAR SURGERY

- Sleep disordered breathing and incidence of heart failure readmission after coronary artery bypass surgery.** P3269
 – Z. Chen, C.Y. Koo, C.S. Koo, B.C. Tai, H.C. Tan, T. Kofidis, C.H. Lee (Singapore, SG)
- Cardiac catheterization after CABG with BIMA grafting: independent predictors and mid-term bypass viability.** P3270
 – F.-A. Saraiva, M. Tavares-Silva, R.J. Cerqueira, M.J. Amorim, A.F. Ferreira, P. Pinho, A.P. Lourenco, A.F. Leite-Moreira (Porto, PT)
- The impact of warfarin on the long term survivals of patients undergoing bioprosthetic aortic valve replacement.** P3271
 – W.T. Chang, N.C. Wu, C.T. Liao, C.L. Chang, C.H. Ho, Z.C. Chen (Tainan, TW)
- Incidence, predictors, and prognostic values of periprocedural myocardial injury in patients undergoing transcatheter aortic valve implementation for aortic stenosis: a meta-analysis.** P3272
 – W.C.H. Hsieh, J.L. Lindner, P.L.C. Chen, B.M.H. Henry (Prague, CZ; Taipei, TW; Krakow, PL)
- Aortic regurgitation and haemodynamic performance of a third-generation balloon-expandable transcatheter heart valve, Results from the SOURCE 3 registry echocardiographic substudy at 1 year.** P3273
 – S. Fernandez, P. Pibarot, D. Messika-Zeitoun, M. Kasel, P. Kahlert, A. Chieffo, P. Zamorano Gomez (Madrid, ES; Quebec, CA; Paris, FR; Munchen and Essen, DE; Milan, IT)
- Surgical ablation of atrial fibrillation evaluation (SAFE): a cost analysis.** P3274
 – G.R. McClure, E.P. Belley-Cote, W. Tong, I.H. Jaffer, J. Healey, R.K. Singal, A. Lamy, R.P. Whitlock (Hamilton and Winnipeg, CA)
- Single center experience with HeartMate 3 and HeartWare HVAD: midterm outcome.** P3275
 – G. Richter, M. Mueller, F. Kaufmann, C. Hoermandinger, V. Falk, E. Potapov, T. Krabatsch (Berlin, DE)
- a novel right heart assist device-the PERKAT RV system.** P3276
 – D. Kretzschmar, A. Lauten, S. Bischoff, P.C. Schulze, M.W. Ferrari (Jena, Berlin and Wiesbaden, DE)
- Distinct differences in laboratory findings of patients with von Willebrand disease type 2A versus patients with LVAD-induced acquired von Willebrand syndrome.** P3277
 – S. Deconinck, C. Tersteeg, E. Bailleul, L. Delrue, N. Vandeputte, I. Pareyn, H. Deckmyn, S.F. De Meyer, N. Itzhar-Baikian, K. Vanhoorelbeke, M. Vanderheyden (Kortrijk and Aalst, BE; Paris, FR)
- Optimal management of patients with type-A aortic dissection after previous CABG.** P3278
 – A.M. Petrescu, T.S. Schachner, B.G. Gahl, P.O. Oberwalder, L.E. Englberger, M.T. Thalman, D.H. Harrington, D.W. Wiedemann, M.S. Suedkamp, M.F. Field, B.R. Rylski, M.P. Petrou, T.C. Carrel, J.P. Pepper, O.S. Stanger (Trier and Freiburg, DE; Innsbruck, Graz and Vienna, AT; Berne, CH; Liverpool, Oxford and London, UK)
- Post-implanted histological adaptation of a novel tissue-engineered heart valve.** P3279
 – Y. Takewa, Y. Nakayama, H. Sumikura, D. Akiyama, N. Katagiri, D. Takeshita, E. Tatsumi (Osaka, JP)
- Impact of proximal radiopaque coronary bypass-graft marking on post bypass surgery angiography and clinical outcome.** P3280
 – C. Pingpooh, M. Sepe, K. Burger, T. Zietak, C.M. Valina, M. Ferenc, F. Beyersdorf, F.J. Neumann, W. Hochholzer (Bad Krozingen, DE)
- Allosensitization with new generation left ventricular assist device.** P3281
 – M. Carrozzi, T. Bottio, F. Toto, M. Comisso, M. Cardillo, E. Cozzi, V. Tarzia, J. Bejko, G. Gerosa (Padua and Milan, IT)
- Safety and efficacy of direct oral anticoagulants in obese patients undergoing treatment for venous thromboembolism: systemic review and network meta-analysis.** P3282
 – R. Chaudhary, K.P. Bliden, U.S. Tantry, P.A. Gurbel (Baltimore and Falls Church, US)
- TRANSCATHETER VALVE INTERVENTIONS AND THEIR COMPLICATIONS**
- Predictors of pacemaker implantation in women undergoing contemporary transcatheter aortic valve replacement: Results from the WIN-TAVI registry.** P3283
 – J. Mehilli, A. Chieffo, A. Petronio, T. Lefevre, P. Presbitero, P. Capranzano, D. Tchetché, A. Iadanza, G. Sardella, G. Mikhail, S. Sartori, C. Snyder, J. Chandrasekhar, M. Morice, R. Mehran (Munich, DE; Milan, Pisa, Catania, Siena and Rome, IT; Massy and Toulouse, FR; London, UK; New York, US)
- Impact of calcification pattern and implantation depth on paravalvular regurgitation and permanent pacemaker implantation after TAVI with a next generation self-expanding device.** P3284
 – V. Mauri, F. Deuschl, T. Frohn, N. Schofer, M. Lindner, M. Seiffert, V. Rudolph, T. Wahlers, H. Reichenspurner, S. Blankenberg, S. Baldus, L. Conradi, N. Madershahian, U. Schaefer, T.K. Rudolph (Cologne and Hamburg, DE)
- Pacemaker implantation after isolated aortic valve replacement with bioprostheses.** P3285
 – S.J. Salmi, T. Kiviniemi, J. Lehto, M. Malmberg, F. Biancari, J. Hartikainen, A. Nissfolk, L. Ihlberg, F. Yannopoulos, T. Riekkinen, M. Nissinen, J. Airaksinen, T. Nieminen (Helsinki, Turku, Oulu and Kuopio, FI)
- The experience of a dual filter cerebral embolic protection device during TAVI.** P3286
 – M. Dallago, G. Braitto, A. Menotti, S. Muraglia, F. Zilio, R. Bonmassari (Trento, IT)

- Peri-procedural predictors for cerebrovascular events in a TAVI all-comers population, a single center experience comprising 1313 patients.** P3287
 – F.G. Deuschl, N. Schofer, N. Ruebsamen, L. Voigtlaender, D. Kalbacher, M. Seiffert, A. Schaefer, J. Schirmer, H. Reichenspurner, S. Blankenberg, L. Conradi, U. Schaefer (Hamburg, DE)
- Transcatheter aortic valve implantation: prognostic impact of pre and post-procedural cardiac biomarkers.** P3288
 – M. Akodad, M. Spaziano, B. Chevalier, T. Hovasse, H. Benamer, P. Garot, A. Dinan-Zannier, X. Troussier, T. Untersee, S. Champagne, T. Lefevre (Massy, FR)
- Myocardial injury after transcatheter aortic valve implantation (TAVI) comparing self-expandable versus balloon expandable versus mechanical expandable valve.** P3289
 – Z. Rahhab, Q. Labarre, V. Nijenhuis, N. El Faquir, C. De Biase, R. Heijmen, P.P.T. De Jaegere, J. Van Der Heyden, D. Tchetché, N.M. Van Mieghem (Rotterdam and Nieuwegein, NL; Toulouse, FR)
- Eccentricity of aortic valve calcification predicts risk of paravalvular regurgitation and response to balloon post-dilation after self-expandable transcatheter aortic valve replacement.** P3290
 – I.-C. Hwang, J.-B. Park, W. Lee, J.-K. Han, C.-H. Kim, S.-P. Lee, H.-M. Yang, E.-A. Park, H.-K. Kim, Y.-J. Kim, B.-K. Koo, D.-W. Sohn, H. Ahn, H.-S. Kim (Seoul, KR)
- The impact of aorta-ventricular angulation on device success in transcatheter aortic valve replacements with the lotus valve system.** P3291
 – H. Rashid, L. McCormick, A. Talman, N. Nerlekar, A. Ihdahid, A. Amiruddin, S. Tan, A. Nasis, I. Meredith, R. Gooley (Melbourne, AU)
- Multicenter evaluation of short-term outcome and hemodynamic performance of next generation self-expanding versus balloon-expandable transcatheter aortic valves in patients with small aortic annulus.** P3292
 – V. Mauri, W.K. Kim, M. Abumayyaleh, T. Walther, H. Moellmann, U. Schaefer, L. Conradi, C. Hengstenberg, M. Hilker, T. Wahlers, S. Baldus, V. Rudolph, N. Madershahian, T.K. Rudolph (Cologne, Bad Nauheim, Dortmund, Hamburg, Munich and Regensburg, DE)
- One year result of the underfilling strategy in transcatheter aortic valve implantation with balloon expandable valve.** P3293
 – M. Hayashi, M. Miura, T. Kawaguchi, M. Yano, S. Itou, T. Morinaga, A. Isotani, H. Tsubota, Y. Arai, M. Hanyu, S. Shirai (Fukuoka, JP)
- Combined balloon aortic valvuloplasty and complex percutaneous coronary intervention: a safe and feasible precursor to transcatheter aortic valve implantation.** P3294
 – Y. Samarage, M. Jackson, D.F. Muir, M.A. De Belder, P.D. Williams (Middlesbrough, UK)
- Short and long term prognosis of patients undergoing urgent TAVI.** P3295
 – O. Angeras, P. Petursson, J. Gabel, D. Ioanes, M. Holmberg, T. Damen, B. Reinsfelt, A. Wallinder, P. Albertsson, E. Omerovic, T. Ramunddal (Gothenburg, SE)
- Antiplatelet effect of clopidogrel before and after transcatheter aortic valve implantation.** P3296
 – C. Stratz, M. Cederqvist, J. Hromerik, S. Aldaoud, W. Hochholzer, D. Trenk, F.J. Neumann, T. Nuehrenberg (Bad Krozingen, DE)
- Prognostic value of nutritional status in patients undergoing transcatheter aortic valve implantation.** P3297
 – R. Gonzalez Ferreiro, D. Lopez Otero, D. Iglesias Alvarez, A. Cid Menendez, L. Alvarez Rodriguez, A.B. Cid Alvarez, X. Sanmartin Pena, R. Trillo Nouché, J.R. Gonzalez Juanatey (Santiago de Compostela, ES)
- PCI – PROCEDURAL COMPLICATIONS**
- Impact of right ventricular side branch occlusion during percutaneous coronary intervention of chronic total occlusions on right ventricular function.** P3298
 – P.A. Van Diemen, W.J. Stuijffand, S. Biesbroek, P.G. Raijmakers, R.S. Driessen, S.P. Schumacher, A. Nap, A.C. Van Rossum, N. Van Royen, R. Nijveldt, P. Knaapen (Amsterdam, NL)
- Clinical course of iatrogenic aortic dissection during coronary catheterization.** P3299
 – H. Amano, K. Kadota, K. Miura, M. Ohya, T. Shimada, S. Kubo, Y. Hyodo, S. Otsuru, S. Habara, T. Tada, H. Tanaka, Y. Fuku, T. Goto (Kurashiki, JP)
- Coronary perforation-a tertiary center experience.** P3300
 – K.K. Prabhakaran, G. Koshy, M. Iype, S. Viswanathan, P. Nini Gupta, K. Sivaprasad, V.V. Radhakrishnan (Trivandrum, IN)
- Comparative study between femoral and brachial vascular accesses after a failed radial approach.** P3301
 – N.M. Maneiro Melon, F. Rebolal Leal, G. Aldama Lopez, L. Perez Cebeo, G. Sanchez Fernandez, C. Barbeito Caamano, P. Pardo Martinez, J.M. Larranaga Moreira, X. Flores Rios, P. Pinon Esteban, R. Calvino Santos, J. Salgado Fernandez, N. Vazquez Gonzalez, J.M. Vazquez Rodriguez (A Coruña, ES)
- Radial approach reduces hospital mortality in acute coronary syndrome: a propensity score matched study.** P3302
 – A. Cordero, J.M. Garcia-Acuna, B. Cid, M. Rodriguez-Manero, R. Lopez-Palop, P. Carrillo, R. Trillo, V. Bertomeu-Martinez, J.R. Gonzalez-Juanatey (Alicante and Santiago de Compostela, ES)
- Changes in high-sensitivity troponin after drug-coated balloon angioplasty for drug-eluting stent restenosis.** P3303
 – R. Colleran, Y. Harada, S. Kufner, D. Giacoppo, M. Joner, S. Cassese, T. Ibrahim, K.-L. Laugwitz, A. Kastrati, R.A. Byrne (Munich, DE)
- Management of clinically relevant vasospasm during transradial coronary angiography.** P3304
 – A.C. Aykan, I. Gulki, E. Kalaycioglu, C.Y. Karabay, T. Gokdeniz, C. Kirma (Trabzon and Istanbul, TR)
- Risk factors of bleeding following Percutaneous Coronary Intervention.** P3305
 – P. Thaneeru (Hamilton, NZ)

- Parameters in feasibility and safety of same-day discharge after complex percutaneous coronary intervention using forearm approach.** P3306
 – M. Koutouzis, A. Karatasakis, E. Brilakis, M. Agelaki, C. Maniotis, S. Kiokas, V. Panis, D. Oikonomidis, A. Fatsiou, G. Avdikos, A. Tsoumeleas, S. Misailidou, P. Dimitriou, C. Andreou, E. Lazaris (Athens, GR; Dallas, US; Leiden, NL)
- Hemostasis pad combined with compression device after transradial coronary procedures.** P3307
 – S.-H. Kang, H. Kim, D. Han, S. Kim, C.H. Yoon, J.J. Park, J.W. Suh, Y.S. Cho, T.J. Youn, I.H. Chae (Seongnam, KR)
- Coronary artery perforation - a single center experience.** P3308
 – M.E. Lemmert, R.J. Van Bommel, R. Diletti, J.W. Wilschut, P.P. De Jaegere, F. Zijlstra, J. Daemen, N.M. Van Mieghem (Rotterdam, NL)
- Fibrin clot permeability determines long-term clinical outcomes in no-reflow survivors.** P3309
 – J. Zalewski, P. Molek, J. Nessler, A. Undas (Krakow, PL)
- Genetic variations associated with increased bleeding risk may improve the pre-procedural bleeding risk stratification: an analysis of polymorphisms of key platelet receptors.** P3310
 – M. Sionova, P. Blasko, S. Jirous, D. Vindis, R. Rokyta, Z. Motovska (Prague, Ostrava, Pilsen and Olomouc, CZ)
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 – S. Obeid, A.E. Von Eckardstein, A.D. Denegri, Y.B. Bockhorn, R.K. Klingenberg, B.G. Gencer, F.M. Mach, L.R. Raeber, S.W. Windecker, N.R. Rodondi, D.N. Nanchen, C.M. Matter, T.F. Luescher (Zurich, Geneva, Bern and Lausanne, CH)
- Effect of euthyroid sick syndrome on long-term clinical outcome in patients with preserved left ventricular function after acute myocardial infarction.** P3652
 – J.J. Kim, W.J. Lee, J. Jang, E.S. Lim, Y.S. Koh, H.J. Park, P.J. Kim, B.H. Hwang, C.J. Kim, K.B. Seung, K. Chang (Seoul, KR)
- Evolution of renal function after acute coronary syndrome and prognostic impact of serial renal assessments in patients with normal-to-moderately reduced glomerular filtration rates: BIOMARCS study.** P3653
 – M. Brankovic, I. Kardys, V. Van Den Berg, R. Oemrawsingh, F.W. Asselbergs, B. Kietselaer, T. Lenderink, T.O. Ophuis, V. Umans, R. De Winter, K.M. Akkerhuis, E. Boersma (Rotterdam, Utrecht, Maastricht, Heerlen, Nijmegen, Alkmaar and Amsterdam, NL)
- Follow up and risk assessment using artificial neural networks in patients with myocardial infarction.** P3654
 – T.G. Gligorijevic, B.M. Milovanovic, V.D. Djajic, Z.S. Sevarac, A.M. Arsic, M.A. Aleksic (Belgrade, RS; Banja Luka, BA)
- Acute Coronary Syndrome: application of the GRACE Score and the creation of the new Laboratorial Risk Score.** P3655
 – J.G. Goncalves Pereira, M.L. Goncalves, H. Antunes, L. Abreu, B. Marmelo, M.I. Pires, I. Cunha, R. Silverio, L.F. Santos, J. Costa Cabral (Viseu, PT)
- Association between prescription rates of guideline-directed medications and short-term outcome among 68182 Japanese patients with acute myocardial infarction.** P3656
 – K. Nakao, S. Yasuda, K. Nishimura, T. Noguchi, F. Nakamura, M. Nakai, Y. Sumita, Y. Miyamoto, H. Ogawa (Saita, JP)

- The impact of age on mortality in females compared to males after acute myocardial infarction.** P3657
 – S. Ahsan, F. Ghollitabar, A. Lemor, S. Lee, S. Hosseini Dehkordi, J. Tamis-Holland (New York, US)
- Characteristics and prognosis of acute myocardial infarction with non-obstructive coronary arteries (MINOCA) according to the new ESC criteria.** P3658
 – G. Ciliberti, S. Coiro, M. Benedetti, M. Del Pinto, C. Cavallini, I. Tritto, G. Ambrosio (Ancona and Perugia, IT)
- Early and 12-month mortality among the young woman and men with acute myocardial infarction (analysis from the PL-ACS registry).** P3659
 – A. Gorgon-Komor, M. Gierlotka, P. Trzeciak, M. Hawranek, B. Wozakowska-Kaplon, K. Komor, M. Gasior, L. Polonski (Bielsko-Biala, Zabrze and Kielce, PL)
- Impact of left atrial dilatation on the progression of ischemic mitral regurgitation and the occurrence of adverse cardiovascular events in patients with acute myocardial infarction in circumflex arte.** P3660
 – R. Maseda Uriza, A. Jurado Roman, I. Sanchez Perez, F. Lozano Ruiz-Poveda, J. Piqueras Flores, M.T. Lopez Lluva (Ciudad Real, ES)
- Effect of severe mental disease on distribution of CAG, PCI, CABG and valve surgery following MI, a nationwide register based study.** P3661
 – R. Attar, J.B. Valentin, K.D.K. Sorensen, S.E. Jensen (Aalborg, DK)
- CRP predicts cap thickness in the culprit lesions of patients with metabolic syndrome and acute myocardial infarction. An Optical Coherence Study.** P3662
 – A. Syntetos, A. Papanikolaou, G. Georgiopoulos, G. Peskesis, M. Drakopoulou, S. Galanakis, A. Karanasos, K. Stathogiannis, I. Koutajiar, K. Toutouzas, D. Tousoulis (Athens, GR)
- Influence of weather condition on the occurrence of unstable angina pectoris in Japan (from the Tokyo cardiovascular care unit network).** P3663
 – H. Niikura, M. Nakamura, K. Komiyama, H. Fujimoto, K. Oikawa, H. Daida, T. Yamamoto, K. Nagao, M. Takayama (Tokyo, JP)
- The relationship between fractionated QRS on initial electrocardiograms and severity of coronary atherosclerosis.** P3664
 – B. Stavileci, Z.L. Koldas, R. Enar (Istanbul, TR)
- Independent laboratory predictors of the risk of recurrent cardiovascular events in patients undergoing unstable angina with conservative treatment strategy.** P3665
 – A. Medvedeva, L.G. Gelis, I.V. Lazareva (Minsk, BY)
- Abnormal coronary vasomotor reactivity is frequent and associated with altered outcomes in patients with symptoms compatible with myocardial ischemia at rest.** P3666
 – O. Varenne, H. Aelion, N. Bouazza, J. Adjedj, A. Chaib, M.C. Chenilleau, S. Manzo-Silberman, P. Degrell, A. Jegou, P. Allouch, E. Salengro, S. Weber, A. Cariou (Paris, FR)
- Evaluation of the diagnostic precision of a single determination of high sensitivity troponin in the screening of acute coronary syndrome in the emergency room.** P3667
 – P. Fluvia, P. Loma Osorio, J. Pascual, J. Aboal, M. Nunez, J. Conejos, J. Iglesias, D. Bosch, R. Brugada (Girona, ES)
- Lesion characteristics and prognosis of heart attack without obstructive coronary artery disease.** P3668
 – A. Taruya, A. Tanaka, T. Nishiguchi, K. Terada, H. Emori, Y. Katayama, S. Ota, Y. Ozaki, M. Kashiwagi, T. Yamano, H. Kitabata, T. Kubo, T. Hozumi, K. Shimada, T. Akasaka (Wakayama, Shingu and Kashiba, JP)
- Impaired cGMP and cAMP signaling in patients with coronary vasospasm: changes during acute crises.** P3669
 – H. Imam, T.H. Nguyen, S.-L. Tee, O. Tonnu, Y.Y. Chirkov, J.D. Horowitz (Adelaide, AU)
- Efficacy and safety with ticagrelor in patients with prior myocardial infarction in the approved European label: insights from PEGASUS-TIMI 54.** P3670
 – M. Dellborg, M.P. Bonaca, R.F. Storey, P.G. Steg, K.A. Im, M. Cohen, D.L. Bhatt, P. Johanson, O. Bengtsson, A. Himmelman, E. Braunwald, M.S. Sabatine (Gothenburg and Mölndal, SE; Boston and Newark, US; Sheffield, UK; Paris, FR)
- Effectiveness of oral P2Y12 inhibition in men and women with cardiovascular disease: a meta-analysis and modelling study.** P3671
 – K.K. Lee, D.A. McAllister, P.D. Adamson, A.S.V. Shah, N.L. Mills (Edinburgh and Glasgow, UK)
- High-sensitivity troponin: the challenge of improving classification and prognostic stratification of NSTEMI-ACS.** P3672
 – G. Peretto, D. Giorgio, M. Magnoni, M. Berteotti, V. Vergani, G. Angeloni, F. Crea, G.A. Lanza, F. Ceriotti, A. Maseri, D. Cianflone (Milan, Rome and Florence, IT)
- Differences in mortality between patients referred to coronary angiography with stable angina or unstable angina.** P3673
 – K. Fladseth, A. Kristensen, J. Mannsverk, T. Trovik, H. Schirmer (Tromsø, NO)
- Using an outpatient protocol for diagnosis of acute coronary syndrome from the emergency department: is it safe?** P3674
 – L. Tojal Sierra, J.G. Rekondo Olaetxea, J. Vaquero Luna, S. Garcia Mancebo, A. Santafe Garcia, M.J. Apodaca Arrizabalaga, M.J. Cotrina Gamboa, A.M. Alonso Gomez, A. De Loma Osorio Montes (Vitoria, ES)
- Transcoronary gradients of heme oxygenase-1 and coronary spasm.** P3675
 – M. Ishii, K. Kaikita, Y. Oimatsu, T. Mitsuse, S. Takashio, Y. Izumiya, E. Yamamoto, S. Kojima, S. Hokimoto, K. Tsujita (Kumamoto, JP)
- Prognosis of an invasive approach to unstable angina.** P3676
 – L. Puga, R. Teixeira, L. Paiva, J. Ribeiro, T. Sousa, L. Goncalves (Coimbra, PT)
- Prognostic implication of gender difference in patients with coronary spasm.** P3677
 – M. Ishii, K. Kaikita, E. Yamamoto, Y. Izumiya, S. Kojima, S. Hokimoto, K. Tsujita (Kumamoto, JP)
- Evaluation of communication polymorphic variant CYP2C19 * 2 gene with resistance to clopidogrel in patients with unstable angina.** P3678
 – A. Medvedeva, L.G. Gelis, I.V. Lazareva, A. Zuraev, V. Budevich, I. Mosse, S. Zalutukhina (Minsk, BY)

- A paradox of under-treatment of acute coronary syndrome patients with low baseline LDL-C <1.8 mmol/L.** P3679
 – B.P.Y. Yan, C.K.Y. Chan, G. Tse, M.C.S. Wong, O.T.L. To, V.W.Y. Lee (Hong Kong, HK)
- Treatment administered to patients with myocardial infarction with non-obstructive coronary arteries in the real world and its impact on prognosis.** P3680
 – J. Lopez Pais, B. Izquierdo Coronel, D. Galan Gil, M.J. Espinosa Pascual, M. Lopez Pais, P. Awamleh Garcia, C.G. Martinez Peredo, J. Alonso Martin (Getafe and Santiago de Compostela, ES)
- How to bridge residual distance to target LDL-C in acute coronary syndrome after initial statin therapy?** P3681
 – B.P.Y. Yan, C.K.Y. Chan, G. Tse, M.C.S. Wong, O.T.L. To, V.W.Y. Lee (Hong Kong, HK)
- Early oral beta-blocker utilization reduces in-hospital mortality in patients submitted to primary percutaneous coronary intervention: a real-world analysis.** P3682
 – R.H.M. Furtado, T.F. Dalcoquiuo, C.A.K. Nakashima, M.A. Scanavini Filho, C.A.C. Pereira, L.M. Lara, F. Ganem, R.R.C.V. Giraldez, M. Franken, R. Kalil Filho, J.C. Nicolau (São Paulo, BR)
- Previous beta-blocker therapy on admission for acute coronary syndrome is associated with decreased intra-hospital mortality and major cardiovascular events in patients without heart failure.** P3683
 – C. Abi Khalil, K. Alhabib, R. Singh, N. Asaad, H. Alfaleh, A. Alsheikh-Ali, K. Sulaiman, A. Hersi, S. Al Saif, W. Almahmeed, J. Al Suwaidi (Doha, QA; Riyadh and Dammam, SA; Dubai and Abu Dhabi, AE; Muscat, OM)
- Early initiation of oral beta-blocker improves long-term survival in patients with acute myocardial infarction who underwent primary percutaneous coronary intervention.** P3684
 – Z. Dai, Y. Nishihata, K. Urayama, N. Komiyama (Tokyo, JP)
- Management of aspirin intolerance in patients undergoing percutaneous coronary intervention: the role of mono anti platelet therapy. A retrospective, multicenter, study.** P3685
 – M. Bianco, E. Cerrato, I. Nunez-Gil, P. Destefanis, A. Aldazabal, A. Luciano, E. Tizzani, A. Corleto, S. Giolitto, G. Campo, J. Escaned, F. Gaita, F. Varbella, R. Pozzi (Orbassano, Ferrara, Rivoli and Turin, IT; Madrid, ES)
- Statin therapy improves glycemic control in diabetic patients admitted with acute coronary syndromes.** P3686
 – R.H.M. Furtado, T.F. Dalcoquiuo, L.M. Baracioli, F.G. Lima, A. Franci, F.R. Menezes, P.R.R. Genestreti, A.G. Ferrari, V.M. Lima, R. Kalil Filho, J.C. Nicolau (São Paulo, BR)
- Clinical presentation and cardiovascular outcomes of patients with coronary artery ectasia.** P3687
 – E.A. Illescas Gonzalez, J.A. Cornejo Guerra, D. Araiza-Garayordobil, A. Rivera-Rodriguez, J.D. Sierra- Lara, M.A. Pena-Cabral, R.E. Ramirez-Koelliker, H. Gonzalez-Pacheco (Mexico City, MX)
- Impact of insulin therapy on thienopyridine- and ticagrelor- mediated platelet inhibition in patients with an acute coronary syndrome.** P3688
 – L.M. Lugo, A.L. Marcano, J.C. Gomez-Polo, I. Silva, J.A. Gomez-Hospital, D. Vivas, J.M. De La Hera, F. Marin, A. Tello-Monteliu, A.R. Cequier, I. Roldan, J.L. Ferreiro (L'Hospitalet de Llobregat, Madrid, Oviedo and Murcia, ES)
- Levels of platelet micro-RNA-223, microRNA-150 and microRNA-21 in patients with coronary artery disease during dual anti platelet therapy and after cessation of P2Y12-inhibitor therapy.** P3689
 – B. Jaeger, S. Stojkovic, P.M. Haller, E. Plackova, B.S. Kahl, T. Andric, J. Wojta, K. Huber (Vienna, AT)
- Impact of high on-treatment platelet reactivity on 1-year clinical outcome in elderly patients with NSTEMI-ACS undergoing percutaneous coronary intervention- insights from the GEPRESS study.** P3690
 – R. De Rosa, T. Palmerini, M. Belmonte, S. De Servi, P. Calabro, D. Capodanno, A. Toso, P. Genereux, G. Galasso, F. Piscione (Salerno, Bologna, Pavia, Naples, Catania and Prato, IT; New York, US)
- Predictors of newer P2Y12 inhibitors prescription at discharge in a contemporary cohort of patients with acute coronary syndrome.** P3691
 – M. Gomez-Molina, P.J. Flores-Blanco, S. Rapodeiras-Rubin, E. Abu-Assi, F. Cambronero-Sanchez, R. Cobas-Paz, A. Lopez-Cuenca, B. Caneiro-Queija, E. Guerrero-Perez, M. Valdes, A. Iniguez-Romo, S. Manzano Fernandez (Murcia and Vigo, ES)
- Underuse of prasugrel and ticagrelor in patients with chronic kidney disease despite achieving a more effective platelet inhibition than clopidogrel.** P3692
 – L.M. Lugo, A.L. Marcano, J.C. Gomez-Polo, I. Silva, J.A. Gomez-Hospital, D. Vivas, J.M. De La Hera, A. Tello-Montoliu, F. Marin, A.R. Cequier, I. Roldan, J.L. Ferreiro (L'Hospitalet de Llobregat, Madrid, Oviedo and Murcia, ES)
- Thrombolytic therapy in acute myocardial infarction after previous revascularization; 29-year experience of the POP study.** P3693
 – P. Mitrovic, B. Stefanovic, M. Radovanovic, N. Radovanovic, D. Rajic, G. Matic, I. Subotic, N. Mitrovic (Belgrade, RS)
- Multicenter research of bleeding risk between low dose prasugrel and standard dose clopidogrel in patients with coronary artery disease undergoing percutaneous coronary intervention.** P3694
 – S. Tokimasa, H. Kitahara, T. Nakayama, Y. Fujimoto, T. Shiba, N. Shikama, M. Nameki, T. Himi, K. Fukushima, Y. Kobayashi (Chiba, Kisarazu and Matsudo, JP)
- Pharmacokinetic profiles of orodispersible ticagrelor tablets in healthy Western and Japanese subjects.** P3695
 – E. Blychert, M. Hammarberg, G.F. Carlson, S. Bokelund-Singh, T. Ruderfelt, R. Teng (Gothenburg, SE; Gaithersburg, US)
- No differences in circulating progenitor endothelial cell levels among patients treated with ticagrelor as compared to clopidogrel during acute coronary syndromes.** P3696
 – A. Diego-Nieto, M.B. Vidriales, J.C. Moreno-Samos, N. Alonso-Orcajo, F. Martin-Herrero, R. Carbonell, B. Cid, I. Cruz-Gonzalez, J.C. Martin-Moreiras, C. Cuellas, R. Estevez-Loureiro, M.B. Lopez-Benito, P.L. Sanchez, F. Fernandez-Vazquez, A. Perez De Prado (Salamanca, León and Santiago de Compostela, ES)
- Prognostic role of non-ST resolution and glycoprotein IIb/IIIa inhibitors use in STEMI patients treated with primary PCI.** P3697
 – A. Somaschini, S. Cornara, M. Ferlini, G. Crimi, A. Baldo, R. Camporotondo, M. Ormezzano Ferrario, L. Oltrona Visconti, G.M. De Ferrari, S. De Servi (Pavia, IT)

- Impact of triple antithrombotic therapy in patients with acute coronary syndrome undergoing percutaneous coronary intervention in real-world practice.** P3698
 – Y. Yan, X. Wang, J.Y. Fan, S.P. Nie, S. Raposeiras-Roubin, E. Abu-Assi, J.P. Henriques, F. D'Ascenzo, J. Saucedo, J.R. Gonzalez-Juanatey, S.B. Wilton (Beijing, CN; Vigo and Santiago de Compostela, ES; Amsterdam, NL; Turin, IT; Chicago, US; Calgary, CA)
- Clopidogrel, prasugrel, or ticagrelor use and clinical outcome in patients with acute coronary syndrome: a nationwide long-term registry analysis from 2009 to 2014.** P3699
 – S. Sheikh Rezaei, A. Geroldinger, G. Heinze, B. Reichardt, M. Wolzt (Vienna, AT)
- Intracoronary tenecteplase versus abciximab as adjunctive treatment during primary PCI in acute myocardial infarction of anterior location.** P3700
 – F.J. Morales Ponce, F.J. Lozano Cid, P. Martinez Romero, P. Gonzalez Perez, J.A. Sanchez Brotons, I. Diaz Torres, E. Martinez Morentin, I. Perez Lopez, F.J. Camacho Jurado, R.F. Garcia Gonzalez, P.L. Martinez Garcia, C. Collado Moreno, S. Blasco Turron, P. Caro Mateo, A. Serrador Frutos (Puerto Real, Cadiz and Valladolid, ES)
- Health implications of regional differences in the implementation of new treatments for myocardial infarction: the case of ticagrelor in Sweden.** P3701
 – K.M. Johannesen, M. Janzon, T. Jernberg, M. Henriksson (Linköping and Stockholm, SE)
- Risk factors and possible mechanisms of high on treatment platelet reactivity with clopidogrel therapy in Chinese patients with CHD.** P3702
 – J. Cao, X. Zou, Y.F. Sun, L. Fan (Beijing, CN)
- PM2.5 exposure and emergency patient visits for AF, AMI and UA disease: A case-crossover and hospital-based study.** P3703
 – X. He, Z.H.A.N. Jinliang, N.I.E. Shaoping (Beijing, CN)
- Open-labeled randomised controlled study of double dose clopidogrel versus ticagrelor in stable coronary artery disease (CAD) patients with clopidogrel resistance.** P3704
 – O. Maskon, A.A. Marwan, H.H. Che Hassan, C. Chee Ken, S.F. Mohamad, S. Govindaraju, P.T. Wei Jyung, S.F. A Wahid, D. Cumberland (Kuala Lumpur, MY)
- Pre-hospital routine oxygen supplement may do harm: insight from Tokyo CCU network database.** P3705
 – M. Kishi, M. Yamasaki, Y. Horiuchi, M. Saji, H. Iwata, S. Higuchi, J. Yamashita, M. Suzuki, M. Yoshikawa, H. Tanaka, K. Miyauchi, M. Takayama (Tokyo, JP)
- Prognosis value of new ESC LVEF classification in acute coronary syndrome with and without heart failure.** P3706
 – A. Martinez, R. Agra Bermejo, A. Cordero, J.M. Garcia Acuna, L. Alvarez Rodriguez, C. Abou-Jokh Casas, I. Gomez Otero, M. Rodriguez Manero, A. Varela Roman, B. Cid Alvarez, R. Lopez Palop, P. Carrillo, J.R. Gonzalez Juanatey (Santiago de Compostela and Alicante, ES)

12:45–13:45 | Spotlight Stage

STROKE PREVENTION IN ATRIAL FIBRILLATION (AF) AND BEYOND – CURRENT GUIDELINES AND EVOLVING CONCEPTS Satellite Symposium

Organised by Charité Medical School, supported with an educational grant by the Translational Medicine Academy

Chairperson(s): H.C. Diener (Essen, DE); P. Widimsky (Prague, CZ)

- | | | |
|-------|---|------|
| 12:45 | Welcome and introduction - Stroke prevention in atrial fibrillation and beyond – Current guidelines and evolving concepts. | 3707 |
| | – H.C. Diener (Essen, DE) | |
| 12:50 | Stroke prevention in AF: which treatment for which patient? | 3708 |
| | – P. Kirchhof (Birmingham, UK) | |
| 13:02 | Atrial high-rate episodes and stroke prevention. | 3709 |
| | – S.J. Connolly (Hamilton, CA) | |
| 13:14 | Antithrombotic therapy in patients with AF undergoing percutaneous coronary intervention (PCI) with stenting. | 3710 |
| | – F.W.A. Verheugt (Amsterdam, NL) | |
| 13:26 | Cryptogenic stroke and embolic stroke of undetermined source (ESUS). | 3711 |
| | – G. Ntaios (Larisa, GR) | |

12:45–13:45 | Miro - The Hub

GLP-1 RECEPTOR AGONISTS AND CARDIOVASCULAR RISK MANAGEMENT IN TYPE 2 DIABETES: A NEW TREATMENT PARADIGM? Satellite Symposium

Sponsored by Novo Nordisk

Chairperson(s): L. Ryden (Stockholm, SE)

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|-------|---|------|
| 12:45 | Introduction - GLP-1 receptor agonists and CV risk management in type 2 diabetes: a new treatment paradigm? | 3712 |
| | – L. Ryden (Stockholm, SE) | |
| 12:55 | Results from the LEADER cardiovascular outcomes trial. | 3713 |
| | – M. Husain (Toronto, CA) | |
| 13:05 | Translating trials into practice - Clinical implications. | 3714 |
| | – M. Pfeffer (Boston, US) | |
| 13:20 | Interactive discussions - GLP-1 receptor agonists and CV risk management in type 2 diabetes: a new treatment paradigm? | 3715 |
| | – L. Ryden (Stockholm, SE), M. Husain (Toronto, CA), M. Pfeffer (Boston, US) | |

12:45–13:45 | Dublin - Village 1

THE IMPORTANT ROLE OF THE WEARABLE CARIOVERTER DEFIBRILLATOR FOR ACUTE MYOCARDIAL INFARCTION PATIENTS Satellite Symposium

Sponsored by ZOLL

Chairperson(s): C.W. Israel (Bielefeld, DE); H.M. Nef (Giessen, DE)

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|-------|---|------|
| 12:45 | Introduction - The important role of the wearable cardioverter defibrillator for acute myocardial infarction patients. | 3716 |
| | – H.M. Nef (Giessen, DE) | |
| 12:50 | Effective risk stratification after recent percutaneous coronary intervention (PCI). | 3717 |
| | – D. Kandzari (Durham, US) | |
| 13:10 | Screening: an efficient way to identify your patient at risk for sudden cardiac death. | 3718 |
| | – C. Veltmann (Hannover, DE) | |
| 13:20 | Patient treatment pathways. | 3719 |
| | – P. Defaye (Grenoble, FR) | |
| 13:40 | Panel discussion - The important role of the wearable cardioverter defibrillator for acute myocardial infarction patients. | 3720 |
| | – C.W. Israel (Bielefeld, DE) | |

12:45–13:45 | Astana - Village 2

QOL IN STABLE ANGINA: IS IT A QUESTIONABLE OR A LONG-STANDING POINT OF VIEW? Satellite Symposium

Sponsored by The Menarini Group

Chairperson(s): A.J. Camm (London, UK)

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|-------|---|------|
| 12:45 | Introduction - QoL in stable angina: is it a questionable or a long-standing point of view? | 3721 |
| | – A.J. Camm (London, UK) | |
| 12:50 | QoL for physicians and patients: it's time to merge perspectives. | 3722 |
| | – P. Collins (Richmond, UK) | |
| 13:15 | How our approach could meet patients' needs. | 3723 |
| | – A.J. Manolis (Voula and Athens, GR) | |
| 13:40 | Q&A and closing remarks - QoL in stable angina: is it a questionable or a long-standing point of view? | 3724 |
| | – A.J. Camm (London, UK) | |

12:45–13:45 | Pristina - Village 2

CAN YOU ACHIEVE MORE FOR YOUR PULMONARY ARTERIAL HYPERTENSION (PAH) PATIENTS? AN EXPERT REVIEW OF KEY RECENT DATA WITH INITIAL COMBINATION THERAPY Satellite Symposium

Sponsored by GSK

Chairperson(s): I.M. Lang (Vienna, AT); J.L. Vachiery (Brussels, BE)

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|-------|---|------|
| 12:45 | Introduction - Can you achieve more for your pulmonary arterial hypertension (PAH) patients? An expert review of key recent data with initial combination therapy. | 3725 |
| | – I.M. Lang (Vienna, AT) | |
| 12:50 | Risk stratification in PAH: are any of our patients really “low risk”? | 3726 |
| | – I.M. Lang (Vienna, AT) | |
| 13:00 | The importance of reducing hospitalisations in PAH. | 3727 |
| | – J.L. Vachiery (Brussels, BE) | |
| 13:15 | Can your connective tissue disease-associated PAH patients achieve similar outcomes to your idiopathic PAH patients? | 3728 |
| | – G. Coghlan (London, UK) | |
| 13:30 | Q&A - Can you achieve more for your PAH patients? An expert review of key recent data with initial combination therapy. | 3729 |
| | – I.M. Lang (Vienna, AT) | |

12:45–13:45 | Beirut - Village 3

HYPERKALAEMIA AND IRON DEFICIENCY: HOW TOO MUCH OR TOO LITTLE MAY AFFECT THE HEART Satellite Symposium

Sponsored by Vifor Pharma

Chairperson(s): J. Comin-Colet (Barcelona, ES); F. Ruschitzka (Zurich, CH)

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|-------|---|------|
| 12:45 | Introduction - Hyperkalaemia and iron deficiency: how too much or too little may affect the heart. | 3730 |
| | – J. Comin-Colet (Barcelona, ES) | |
| 12:55 | Changing the treatment paradigm of hyperkalaemia management to enable and optimise renin-angiotensin-aldosterone system inhibitor (RAASi) therapy. | 3731 |
| | – P. Van Der Meer (Groningen, NL) | |
| 13:15 | Should iron be at the heart of concerns? | 3732 |
| | – C.S.P. Lam (Singapore, SG) | |
| 13:35 | Panel discussion and close - Hyperkalaemia and iron deficiency: how too much or too little may affect the heart. | 3733 |
| | – J. Comin-Colet (Barcelona, ES), F. Ruschitzka (Zurich, CH) | |

12:45–13:45 | Riga - Village 3

CONSIDERATIONS FOR CARDIOLOGISTS: FURTHER INSIGHTS INTO TREATMENT OPTIONS FOR PATIENTS WITH TYPE 2 DIABETES AND CARDIOVASCULAR DISEASE Satellite Symposium

Sponsored by MSD

Chairperson(s): S. Del Prato (Pisa, IT); D. McGuire (Dallas, US)

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|-------|--|------|
| 12:45 | Opening remarks - Considerations for cardiologists: further insights into treatment options for patients with type 2 diabetes and cardiovascular disease. | 3734 |
| | – S. Del Prato (Pisa, IT) | |
| 12:50 | Why control glycemia? | 3735 |
| | – L. Leiter (Toronto, CA) | |
| 13:00 | Clarifying the role for DPP-4 inhibitors in the treatment of patients with type 2 diabetes at risk of heart failure. | 3736 |
| | – D. McGuire (Dallas, US) | |
| 13:10 | DPP-4 inhibitors and SGLT2 inhibitors - A mechanism for the future? | 3737 |
| | – D. Cherney (Toronto, CA) | |
| 13:20 | Q&A - Considerations for cardiologists: further insights into treatment options for patients with type 2 diabetes and cardiovascular disease. | 3738 |
| | – S. Del Prato (Pisa, IT) | |
| 13:30 | Clinical considerations - A perspective across specialties. | 3739 |
| | – S. Del Prato (Pisa, IT), D. McGuire (Dallas, US), L. Leiter (Toronto, CA), D. Cherney (Toronto, CA) | |
| 13:40 | Closing remarks - Considerations for cardiologists: further insights into treatment options for patients with type 2 diabetes and cardiovascular disease. | 3740 |
| | – D. McGuire (Dallas, US) | |

12:45–13:45 | Chisinau - Village 4

PROTECTING PATIENTS THROUGH RESPONSIBLE USE OF NOVEL ORAL ANTICOAGULANTS (NOACs)... THE RIGHT DOSE FOR THE RIGHT PATIENT FOR STROKE PREVENTION Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): R. Cappato (Rozzano, IT); R. Mehran (New York, US)

- | | | |
|-------|--|------|
| 12:45 | Opening remarks - Protecting patients through responsible use of NOACs... The right dose for the right patient for stroke prevention. | 3741 |
| | – R. Mehran (New York, US) | |
| 12:50 | New insights on treating patients with atrial fibrillation (AF) who are undergoing percutaneous coronary intervention (PCI) stenting. | 3742 |
| | – K.A.A. Fox (Edinburgh, UK) | |
| 13:10 | Special considerations in the management of patients with AF undergoing ablation or cardioversion. | 3743 |
| | – S.H. Hohnloser (Frankfurt, DE) | |
| 13:25 | How can we appropriately treat multimorbid patients with AF? | 3744 |
| | – C.T. Ruff (Boston, US) | |
| 13:40 | Closing remarks - Protecting patients through responsible use of NOACs... The right dose for the right patient for stroke prevention. | 3745 |
| | – R. Cappato (Rozzano, IT) | |

Complementary Satellite Symposia - Experts on the Spot sessions scheduled on Monday 28 August, 15:45–16:15 in Gaudi - The Hub and on Tuesday 29 August, 10:15–10:45 in Gaudi - The Hub.

12:45–13:45 | Vilnius - Village 4

MODERN MANAGEMENT OF DIABETES IN CARDIOLOGY: IMPACT OF SGLT2 INHIBITION ON CARDIOVASCULAR OUTCOMES AND HEART FAILURE Satellite Symposium

Organised by Physicians' Academy for Cardiovascular Education, supported with an educational grant by Boehringer Ingelheim/Lilly

Chairperson(s): J.E. Deanfield (London, UK); D. Fitchett (Toronto, CA)

- | | | |
|-------|---|------|
| 12:45 | Introduction - Modern management of diabetes in cardiology: impact of SGLT2 inhibition on cardiovascular outcomes and heart failure. | 3746 |
| | – D. Fitchett (Toronto, CA) | |
| 12:50 | SGLT2 inhibition in cardiology: what a cardiologist needs to know. | 3747 |
| | – N. Sattar (Glasgow, UK) | |
| 13:10 | Management of CV risk & type 2 diabetes mellitus (T2DM): implications of novel outcome trials. | 3748 |
| | – J.E. Deanfield (London, UK) | |
| 13:25 | Heart failure & diabetes: time for a more unified approach. | 3749 |
| | – S.D. Anker (Berlin, DE) | |
| 13:40 | Discussion - Modern management of diabetes in cardiology: impact of SGLT2 inhibition on cardiovascular outcomes and heart failure. | 3750 |
| | – D. Fitchett (Toronto, CA), J.E. Deanfield (London, UK) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Monday 28 August, 15:45–16:15 in Goya - The Hub.

12:45–13:45 | Skopje - Village 5

RE-DUAL PCI AND REVERSAL: IMPROVING CARE DECISIONS AFTER CORONARY REVASCULARISATION Satellite Symposium

Sponsored by Boehringer Ingelheim

Chairperson(s): C.P. Cannon (Boston, US)

- | | | |
|-------|--|------|
| 12:45 | Antithrombotic strategies post-PCI: what do we know so far? | 3751 |
| | – G. Nickenig (Bonn, DE) | |
| 13:00 | Dual vs triple antithrombotic therapy: new evidence. | 3752 |
| | – C.P. Cannon (Boston, US) | |
| 13:20 | Safety, efficacy, control: choosing the right oral anticoagulant for our patients. | 3753 |
| | – T. Villines (Rockville, US) | |
| 13:35 | Panel discussion Q&A - RE-DUAL PCI and reversal: improving care decisions after coronary revascularisation. | 3754 |
| | – C.P. Cannon (Boston, US) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Monday 28 August, 10:15–10:45 in Goya - The Hub.

12:45–13:45 | Valetta - Village 5

LEADING HEALTHCARE TRANSFORMATION IN THE DIGITAL ERA

Satellite Symposium

Sponsored by Medtronic

Chairperson(s): J. Steffel (Zurich, CH); M. Pachon Iglesias (Toledo, ES)

12:45	Introduction - Leading healthcare transformation in the digital era.	3755
	– M. Pachon Iglesias (Toledo, ES)	
12:50	Improving outcomes by increased patient involvement in cardiac device therapy.	3756
	– G. Zanotto (Verona, IT)	
13:05	A monitoring and triaging service for implantable cardiac diagnostics.	3757
	– H.S. Schafer (Essen, DE)	
13:20	External cardiac monitoring in patients with suspected arrhythmias.	3758
	– P.K. Jacobsen (Klampenborg, DK)	
13:35	Conclusion - Leading healthcare transformation in the digital era.	3759
	– J. Steffel (Zurich, CH)	

12:45–13:45 | Bishkek - Village 6

NOACS AND NEW FRONTIERS IN ANTICOAGULATION MANAGEMENT

Satellite Symposium

Organised by Medscape Education, supported with an educational grant by Bayer

Chairperson(s): E. Peterson (Durham, US)

12:45	Introduction - NOACs and new frontiers in anticoagulation management.	3760
	– E. Peterson (Durham, US)	
12:50	The real world of NOACs: what do the data tell us?	3761
	– E. Peterson (Durham, US)	
13:02	Evolving world of antithrombotics: unmet needs.	3762
	– M. Patel (Durham, US)	
13:14	Coronary artery disease and peripheral artery disease: exploring new indications.	3763
	– J.W. Eikelboom (Hamilton, CA)	
13:26	Challenging case perspectives: how would you treat?	3764
	– K.A.A. Fox (Edinburgh, UK)	
13:38	Questions and answers session - NOACs and new frontiers in anticoagulation management.	3765
	– E. Peterson (Durham, US)	

Complementary Satellite Symposium - Experts on the Spot session scheduled on Saturday 26 August, 12:45–13:15 in Goya - The Hub.

12:45–13:45 | Luxembourg - Village 6

PAH – TRIPLE COMBINATION IN A TIMELY MANNER

Satellite Symposium

Sponsored by Actelion Pharmaceuticals Ltd

Chairperson(s): N. Galie (Bologna, IT); G. Radegran (Lund, SE)

12:45	PAH – More choices need smarter decisions.	3766
	– G. Radegran (Lund, SE)	
12:50	The relevance of a comprehensive risk assessment during treatment.	3767
	– M. Humbert (Le Kremlin-Bicêtre, FR)	
13:10	Triple combination – Who, when, how.	3768
	– S. Rosenkranz (Cologne, DE)	
13:30	Q&A – PAH – Triple combination in a timely manner.	3769
13:40	Final remarks - PAH – Triple combination in a timely manner.	3770
	– N. Galie (Bologna, IT)	

12:45–13:45 | Oslo - Village 7

ADVANCING PATIENT CARE WITH NOACS: FOCUS ON VTE MANAGEMENT

Satellite Symposium

Sponsored by Bristol-Myers Squibb and Pfizer Alliance

Chairperson(s): G. Agnelli (Perugia, IT); E. Hylek (Boston, US)

12:45	Introduction - Advancing patient care with NOACs: focus on VTE management.	3771
	– E. Hylek (Boston, US)	
12:52	NOACs for VTE treatment: a change in clinical practice.	3772
	– G. Agnelli (Perugia, IT)	
13:07	Preventing recurrent VTE: how is patient management evolving?	3773
	– A.T. Cohen (London, UK)	
13:22	Addressing outstanding challenges in PE patient management.	3774
	– D. Jimenez (Madrid, ES)	
13:37	Q&A - Advancing patient care with NOACs: focus on VTE management.	3775
	– G. Agnelli (Perugia, IT)	

Complementary Satellite Symposium - Experts on the Spot session scheduled on Tuesday 29 August, 10:15–10:45 in Picasso - The Hub.

12:45–13:45 | Rabat - Village 7

CONTROVERSIES IN CLINICAL MANAGEMENT OF COMPLEX CARDIAC PROBLEMS

Satellite Symposium

Sponsored by Cleveland Clinic

Chairperson(s): W. Jaber (Cleveland, US)

- | | | |
|-------|--|------|
| 12:45 | Cardiac myxoma following bioprosthetic mitral valve replacement - Now what? | 3776 |
| | – B. Griffin (Cleveland, US) | |
| 13:00 | Paravalvular leak after mitral valve replacement - Surgical or conservative management? | 3777 |
| | – W. Jaber (Cleveland, US) | |
| 13:15 | Aortic stenosis and atrial fibrillation - What are the optimal management strategies? | 3778 |
| | – O. Wazni (Cleveland, US) | |
| 13:30 | Endocarditis: the challenges of delivering early surgery. | 3779 |
| | – V. Menon (Cleveland, US) | |

12:45–13:45 | Bucharest - Village 8

Today on ESC TV

ATHEROSCLEROSIS AND SECONDARY CARDIOVASCULAR DISEASE PREVENTION: INFLAMMATION AND LOW DENSITY LIPOPROTEIN (LDL)-CHOLESTEROL

Satellite Symposium

Sponsored by Novartis Pharma AG

Chairperson(s): P. Libby (Boston, US); T.F. Luscher (Zurich, CH)

- | | | |
|-------|---|------|
| 12:45 | Welcome - Atherosclerosis and secondary cardiovascular disease prevention: inflammation and LDL-cholesterol. | 3780 |
| | – T.F. Luscher (Zurich, CH) | |
| 12:50 | Atherosclerosis and the cardiovascular continuum. | 3781 |
| | – P. Libby (Boston, US) | |
| 12:55 | What are the unmet medical needs in secondary cardiovascular disease prevention? | 3782 |
| | – P.G. Steg (Paris, FR) | |
| 13:07 | Cardiovascular residual risk: what are the markers? | 3783 |
| | – W. Koenig (Munich, DE) | |
| 13:17 | Secondary cardiovascular disease prevention: what have we learnt from recent clinical trials? | 3784 |
| | – P.M. Ridker (Boston, US) | |
| 13:32 | Audience Q&A and panel discussion - Atherosclerosis and secondary cardiovascular disease prevention: inflammation and LDL-cholesterol. | 3785 |
| | – P. Libby (Boston, US) | |
| 13:42 | Summary and closing remarks - Atherosclerosis and secondary cardiovascular disease prevention: inflammation and LDL-cholesterol. | 3786 |
| | – T.F. Luscher (Zurich, CH) | |

Complementary Satellite Symposium - Experts on the Spot session scheduled on Monday 28 August, 15:45–16:15 in Miro - The Hub.

12:45–13:45 | Tripoli - Village 8

EXPERT OPINION ON BLOOD PRESSURE CONTROL AND CARDIOVASCULAR RISK

Satellite Symposium

Sponsored by Boehringer Ingelheim

Chairperson(s): B. Williams (London, UK)

- | | | |
|-------|--|------|
| 12:45 | Welcome and introduction - Expert opinion on blood pressure control and cardiovascular risk. | 3787 |
| | – B. Williams (London, UK) | |
| 12:50 | BP control – Can we achieve it? | 3788 |
| | – B. Williams (London, UK) | |
| 13:00 | Improving adherence with combination therapy. | 3789 |
| | – M. Tomaszewski (Manchester, UK) | |
| 13:10 | The challenge of long-term BP control. | 3790 |
| | – A. Avezum (São Paulo, BR) | |
| 13:20 | Beyond BP control – what's the CV risk benefit? | 3791 |
| | – R. Castillo (Makati, PH) | |
| 13:30 | Panel discussion, summary & close - Expert opinion on blood pressure control and cardiovascular risk. | 3792 |
| | – B. Williams (London, UK) | |



12:45–13:45 | Lisbon - Village 9

TARGETING THE CARDIAC CELLS TO UNRAVEL THE SECRET OF ANGINA

Satellite Symposium

Sponsored by **SERVIER**

Chairperson(s): M. Marzilli (Pisa, IT); R. Ferrari (Ferrara, IT)

12:45	Introduction - Targeting the cardiac cells to unravel the secret of angina.	3793
	– M. Marzilli (Pisa, IT)	
12:55	Angina pectoris: where are we now?	3794
	– C.J. Pepine (Gainesville, US)	
13:05	Current opportunities to improve angina management.	3795
	– L.H. Gowdak (São Paulo, BR)	
13:15	New perspectives in angina management.	3796
	– R. Ferrari (Ferrara, IT)	
13:25	Discussion - Targeting the cardiac cells to unravel the secret of angina.	3797
	– R. Ferrari (Ferrara, IT), L.H. Gowdak (São Paulo, BR), M. Marzilli (Pisa, IT), C.J. Pepine (Gainesville, US)	
13:40	Conclusion - Targeting the cardiac cells to unravel the secret of angina.	3798
	– R. Ferrari (Ferrara, IT)	

12:45–13:45 | Warsaw - Village 9

CHALLENGING THE CURRENT TREATMENT PARADIGM – SGLT2 INHIBITION IN HEART FAILURE

Satellite Symposium

Sponsored by **AstraZeneca**

Chairperson(s): M. Metra (Brescia, IT)

12:45	Chair's introduction - Challenging the current treatment paradigm - SGLT2 inhibition in heart failure.	3799
	– M. Metra (Brescia, IT)	
12:50	The ongoing problem of heart failure.	3800
	– K.K. Ray (London, UK)	
13:10	SGLT2 inhibition: the potential to change the heart failure landscape?	3801
	– J.J.V. McMurray (Glasgow, UK)	
13:30	Q&A - Challenging the current treatment paradigm - SGLT2 inhibition in heart failure.	3802
	– M. Metra (Brescia, IT), K.K. Ray (London, UK)	
13:40	Summary & close - Challenging the current treatment paradigm - SGLT2 inhibition in heart failure.	3803
	– M. Metra (Brescia, IT)	

13:00–13:45 | Goya - The Hub

HOW THE NEW EUROPEAN VALVULAR HEART DISEASE GUIDELINES COULD CHANGE THE TREATMENT OF AS PATIENTS?

Satellite Symposium

Sponsored by **Edwards Lifesciences**

Chairperson(s): H. Moellmann (Bad Nauheim, DE); B.D. Prendergast (London, UK)

13:00	What is the evidence supporting the new valvular heart disease (VHD) guidelines regarding severe aortic stenosis (AS) treatment?	3804
	– H. Moellmann (Bad Nauheim, DE)	
13:15	New VHD guidelines - What are the implications for the cardiologist?	3805
	– H. Moellmann (Bad Nauheim, DE)	
13:30	New VHD guidelines - What are the implications for transcatheter aortic valve implantation (TAVI) implanters?	3806
	– H. Moellmann (Bad Nauheim, DE)	
13:40	Summary: key learnings and conclusion - How the new European VHD guidelines could change the treatment of AS patients?	3807
	– H. Moellmann (Bad Nauheim, DE)	

13:00–13:45 | Fira - Village 1

HOW TO USE BIOMARKERS TO OPTIMIZE DIAGNOSIS AND RISK STRATIFICATION OF ACUTE CORONARY SYNDROME (ACS)

Satellite Symposium

Sponsored by **Roche Diagnostics International**

Chairperson(s): H.A. Katus (Heidelberg, DE); C.E. Mueller (Basel, CH)

13:00	Introduction - How to use biomarkers to optimize diagnosis and risk stratification of ACS.	3808
	– H.A. Katus (Heidelberg, DE), C.E. Mueller (Basel, CH)	
13:02	Benefits of the 1-hour algorithm for the diagnosis of acute myocardial infarction (AMI) using cardiac troponin T -high sensitive.	3809
	– C.E. Mueller (Basel, CH)	
13:15	Do cardiac troponin T -high sensitive gender specific cut-offs lead to different treatment strategy for the diagnosis of AMI?	3810
	– E. Giannitsis (Heidelberg, DE)	
13:30	Use of GDF-15 in the management of patients with ACS.	3811
	– L.C. Wallentin (Uppsala, SE)	

14:00–15:30 | Barcelona - Main Auditorium

HOT LINE: LATE-BREAKING CLINICAL TRIALS 3		Hot Line
Chairperson(s): E.V. Shlyakhto (St. Petersburg, RU); F. Van de Werf (Leuven, BE)		
14:00	A Naturally Randomized Trial Comparing the Effect of Genetic Variants that Mimic CETP Inhibitors and Statins on the Risk of Cardiovascular Disease.	3812
	– B.A. Ference (Plymouth, US)	
14:10	Discussant review: A Naturally Randomized Trial Comparing the Effect of Genetic Variants that Mimic CETP Inhibitors and Statins on the Risk of Cardiovascular Disease.	3813
	– B.G. Nordestgaard (Herlev, DK)	
14:15	Panel discussion.	3814
14:18	Effect of Sildenafil on Clinical Outcomes in Patients with Corrected Valvular Heart Disease and Residual Pulmonary Hypertension.	3815
	– J. Bermejo (Madrid, ES)	
14:28	Discussant review: Effect of Sildenafil on Clinical Outcomes in Patients with Corrected Valvular Heart Disease and Residual Pulmonary Hypertension.	3816
	– I.M. Lang (Vienna, AT)	
14:33	Panel discussion.	3817
14:36	The PRECISION-ABPM (Prospective Randomized Evaluation of Celecoxib Integrated Safety versus Ibuprofen or Naproxen Ambulatory Blood Pressure Measurement) - Trial.	3818
	– F. Ruschitzka (Zurich, CH)	
14:46	Discussant review: The PRECISION-ABPM (Prospective Randomized Evaluation of Celecoxib Integrated Safety versus Ibuprofen or Naproxen Ambulatory Blood Pressure Measurement) - Trial.	3819
	– S. Solomon (Boston, US)	
14:51	Panel discussion.	3820
14:54	Protection of the brain on occasion of planned open heart surgery by surgical closure of the left atrial appendage. A randomized study.	3821
	– J. Hansen (Frederiksberg, DK)	
15:04	Discussant review: Protection of the brain on occasion of planned open heart surgery by surgical closure of the left atrial appendage. A randomized study.	3822
	– V. Falk (Berlin, DE)	
15:09	Panel discussion.	3823
15:12	Airway management during cardiopulmonary resuscitation: Tracheal intubation versus bag valve mask ventilation.	3824
	– F. Adnet (Bobbigny, FR)	
15:22	Discussant review: Airway management during cardiopulmonary resuscitation: Tracheal intubation versus bag valve mask ventilation.	3825
	– G. Nichol (Seattle, US)	
15:27	Panel discussion.	3826

14:00–15:30 | Spotlight Stage



LET'S TALK ABOUT STRATEGY: INTERVENTIONAL APPROACHES FROM EASY TO COMPLEX ANATOMY		Special Session
Case Discussion with the Masters		
Chairperson(s): S. Achenbach (Erlangen, DE)		
14:00	Let's talk about strategy: interventional approaches for complex anatomy - An interactive, case-based panel discussion.	3827
	– A. Colombo (Milan, IT), J. Fajadet (Toulouse, FR), M.B. Leon (New York, US), J. Mehilli (Munich, DE), H. Moellmann (Bad Nauheim, DE)	

14:00–15:30 | Dali - The Hub

CLINICAL TRIAL UPDATE 1		Clinical Trial Update
Chairperson(s): M. Böhm (Homburg, DE); I.M. Graham (Wicklow, IE)		
14:00	Increased all-cause mortality with intensive blood-pressure control in patients with a baseline systolic blood pressure of ≥ 160 mmHg and a Lower Framingham risk score: a cautionary note from SPRINT. – T.-D. Wang (Taipei, TW)	3828
14:15	Systolic Blood Pressure Variability and Major Adverse Outcomes in Patients with Atrial Fibrillation: the AFFIRM Study. – M. Proietti (Birmingham, UK)	3829
14:30	Clinical Efficacy and Safety of Achieving Very Low LDL-C Levels With the PCSK9 Inhibitor Evolocumab in the FOURIER Outcomes Trial. – R.P. Giugliano (Boston, US)	3830
14:45	The long-term efficacy and safety of short dual antiplatelet therapy. – M. Nakamura (Tokyo, JP)	3831
15:00	Mechanisms for the benefit of spironolactone in resistant hypertension in the PATHWAY-2 study. – B. Williams (London, UK)	3832
15:15	Aldosterone Lethal Effects Blocked in Acute Myocardial Infarction Treated With or Without Reperfusion to Improve Outcome and Survival at Six Months Follow-up. – F. Beygui (Caen, FR)	3833

14:00–15:30 | Gaudi - The Hub

Cardiologists of Tomorrow

INTERPRETATION OF STATISTICS AND CLINICAL TRIALS: A PRACTICAL GUIDE FOR THE CLINICAL CARDIOLOGIST		Special Session
Chairperson(s): B. Casadei (Oxford, UK); M. Pfeffer (Boston, US)		
14:00	Meta-analysis interpretation: how to separate the “wheat from the chaff”? – F. D’Ascenzo (Turin, IT)	3834
14:22	Statistics for “dummies”: explain me propensity score matching, non-inferiority clinical trials and composite endpoint analysis. – S. Solomon (Boston, US)	3835
14:45	Statistical tricks in recent cardiovascular clinical trials. – S.J. Pocock (London, UK)	3836
15:07	Panel discussion: what will be the clinical trials of the future.	3837

14:00–15:30 | Goya - The Hub

KEY MESSAGES FROM THE MOST POPULAR ESC WEBINARS		Symposium
Chairperson(s): S. Baldus (Cologne, DE); A. Kontsevaya (Moscow, RU)		
14:00	NSTEMI - The basic pillars of pharmacotherapy - Case. – M. Roffi (Geneva, CH)	3838
14:12	NSTEMI - The basic pillars of pharmacotherapy - Key messages. – K. Huber (Vienna, AT)	3839
14:25	Ascending aortic aneurysm - How to assess, how to medically treat and when to operate - Case. – U. Sechtem (Stuttgart, DE)	3840
14:38	Ascending aortic aneurysm - How to assess, how to medically treat and when to operate - Key messages. – R. De Paulis (Rome, IT)	3841
14:51	Ventricular arrhythmias - Basics of pharmacological treatment and key indications for catheter interventions - Case. – G. Hindricks (Leipzig, DE)	3842
15:04	Ventricular arrhythmias - Basics of pharmacological treatment and key indications for catheter interventions - Key messages. – To be announced	3843
15:17	Key messages from the most popular ESC webinars - Conclusion. – S. Baldus (Cologne, DE)	3844

14:00–15:30 | Miro - The Hub

TOWARDS A UNIFIED THEORY FOR PREVENTION

Symposium

Joint with the American Heart Association

Chairperson(s): N. Allen (Chicago, US); L. Badimon (Barcelona, ES)

- | | | |
|-------|---|------|
| 14:00 | Key messages of the 2016 ESC prevention guidelines.
– D.E. Grobbee (Utrecht, NL) | 3845 |
| 14:22 | Should we manage disease-specific or global risk - Or should we manage both?
– E. Peterson (Durham, US) | 3846 |
| 14:45 | Moving from a 10-year to a lifetime risk perspective.
– D. Lloyd-Jones (Chicago, US) | 3847 |
| 15:07 | “Precision medicine” and primary prevention.
– W. Koenig (Munich, DE) | 3848 |

14:00–15:30 | Picasso - The Hub

VASCULAR INFLAMMATION

Rapid Fire Abstract

Chairperson(s): R. Nagai (Tochigi, JP); Z. Mallat (Cambridge, UK)

- | | | |
|-------|---|------|
| 14:00 | Involvement of B cell/Syk axis in development of abdominal aortic aneurysm.
– A. Furusho, H. Aoki, M. Nishihara, S. Ohno, S. Hirakata, N. Nishida, S. Ito, M. Hayashi, H. Akashi, H. Tanaka, Y. Fukumoto (Kurume, JP) | 3849 |
| 14:09 | Central role of mTOR pathway in molecular pathogenesis of aortic dissection.
– M. Hayashi, H. Aoki, S. Ohno, M. Nishihara, A. Furusho, S. Hirakata, N. Nishida, S. Ito, Y. Fukumoto (Kurume, JP) | 3850 |
| 14:18 | Myocardin-related transcription factor-A is required for development of aortic dissection.
– S. Ito, H. Aoki, M. Nishihara, S. Ohno, A. Furusho, S. Hirakata, N. Nishida, M. Hayashi, Y. Fukumoto (Kurume, JP) | 3851 |
| 14:27 | Fit-1 in M1 macrophages promotes immature vascular formation.
– K. Soma, N. Takeda, T. Isagawa, H. Abe, H. Semba, K. Koyama, M. Wake, M. Kato, Y. Nakagama, I. Manabe, R. Nagai, I. Komuro (Tokyo, Chiba and Tochigi, JP) | 3852 |
| 14:36 | Ephrin A1 modulates M2a polarization of macrophages and their migration potential.
– D.M. Poitz, J.M. Biedermann, M. Kraeter, G. Ende, L. Kube, A. Augstein, K. Ibrahim, J. Guck, R.H. Strasser, S. Jellinghaus (Dresden, DE) | 3853 |
| 14:45 | Leukocyte mobilization through CD40L/Mac-1 drives cardiovascular inflammation.
– D. Wolf, N. Anto Michel, H. Blankenbach, C. Bode, K. Peter, A. Zirlik (Freiburg, DE; Melbourne, AU) | 3854 |
| 14:54 | An anti-Interleukin-1beta antibody suppresses both angiotensin II-induced hypertension and aortic aneurysm.
– K. Kitamura, K. Isoda, K. Akita, Y. Okabayashi, K. Shimada, H. Daida (Tokyo, JP) | 3855 |
| 15:03 | PCSK9 plays a novel immunological role in Oxidized LDL-induced dendritic cell maturation and T cell activation from human blood and atherosclerotic plaque.
– J. Frostegard, A. Liu (Stockholm, SE) | 3856 |
| 15:12 | Activation of the GIP system attenuates pathological vascular remodeling by decreasing infiltration and proinflammatory activation of monocytes in ApoE^{-/-} mice.
– F. Kahles, A. Liberman, C. Halim, J. Moellmann, S. Diebold, M. Burgmaier, H. Findeisen, C. Leberherz, N. Marx, M. Lehrke (Aachen and Münster, DE) | 3857 |
| 15:21 | Ectopic FABP4 expression in the vascular endothelium is involved in neointima formation after vascular injury.
– M. Furuhashi, T. Fuseya, M. Matsumoto, T. Mita, S. Ishimura, M. Tanaka, N. Moniwa, T. Miura (Sapporo, JP) | 3858 |

14:00–15:30 | Agora 1 - Agora

DEVICES AND MULTIDISCIPLINARY INTERVENTIONS IN HEART FAILURE		Rapid Fire Abstract
Chairperson(s): K. Dickstein (Stavanger, NO); G. Bajraktari (Prishtina, XK)		
14:00	Observed versus predicted mortality after mitralclip treatment in patients with symptomatic heart failure and significant functional mitral regurgitation.	3859
	– A. Scotti, M. Adamo, A. Giannattasio, A. Sisinni, C.A. Pivato, L. Arrigoni, A. Salerno, A. Cappelletti, G. Fragasso, M. Montorfano, E. Agricola, F. Etori, A. Margonato, A. Colombo, C. Godino (Milan and Brescia, IT)	
14:09	Distinct hemodynamic changes after interventional mitral valve edge to edge repair in different phenotypes of heart failure.	3860
	– B. Schrage, D. Kalbacher, M. Schwarzl, C. Waldeyer, P.M. Becher, S. Blankenberg, E. Lubos, U. Schaefer, D. Westermann (Hamburg, DE)	
14:18	Morbidity and mortality of chronic heart failure (CHF) patients with central sleep apnoea (CSA) treated by adaptive servoventilation (ASV): Interim results of FACE cohort study.	3861
	– J.-M. Davy, R. Tamisier, M.-P. D'Ortho, P. Levy, F. Goutorbe, L. Morin, J.-L. Pepin, T. Damy (Montpellier, Grenoble, Paris, Béziers, Saint-Priest and Créteil, FR)	
14:27	Acute modifications of left ventricular torsional mechanics induced by cardiac resynchronization therapy affect short-term reverse remodelling.	3862
	– C. Sartori, F. De Vecchi, A. Degiovanni, P. Devecchi, P.N. Marino (Novara, IT)	
14:36	Two-year outcomes after mitralclip treatment of functional mitral regurgitation in ischemic and non-ischemic dilated cardiomyopathy.	3863
	– A. Scotti, M. Adamo, A. Beneduce, C.A. Pivato, L. Arrigoni, A. Salerno, A. Cappelletti, S. Stella, G. Fragasso, M. Montorfano, E. Agricola, F. Etori, A. Margonato, A. Colombo, C. Godino (Milan and Brescia, IT)	
14:45	The role of myocardial fibrosis in the recovery of left ventricular ejection fraction after TAVI.	3864
	– A. Sedaghat, M. Weber, M. Steinmetz, R. Schueler, N. Werner, A. Stundl, A. Welz, F. Mellert, B. Zur, G. Nickenig, S. Holdenrieder, W. Schiller, J.M. Sinning (Bonn, DE)	
14:54	Patients with left bundle branch block are hypersensitive to afterload: moderate elevation of systolic pressure caused marked depression of left ventricular function.	3865
	– J. Aalen, P. Storsten, J. Hisdal, E.W. Remme, C.K. Larsen, P.A. Simes, O. Gjesdal, H. Skulstad, O.A. Smiseth (Oslo and Moss, NO)	
15:03	Quantitative intraventricular hemodynamic forces: a sensitive and specific marker of left ventricular dyssynchrony.	3866
	– P.M. Arvidsson, J. Toger, M. Carlsson, G. Pedrizzetti, R. Borgquist, E. Heiberg, H. Arheden (Lund, SE; Trieste, IT)	
15:12	Subvalvular geometry and increased sphericity significantly increases papillary muscle contribution to myocardial workload in dilated left ventricles.	3867
	– J. Duchenne, S. Bezy, A. Turco, P. Claus, K. Vunckx, E. Pagourelas, S. Unlu, J. Nuyts, W. Coudyzer, F. Rega, O. Gheysens, J.U. Voigt (Leuven, BE)	
15:21	Different prognostic impacts of residual coronary stenosis after percutaneous coronary intervention by left ventricular systolic function in patients with ischemic heart failure.	3868
	– K. Hao, J. Takahashi, Y. Sakata, S. Miyata, T. Shiroto, K. Nochioka, H. Shimokawa (Sendai, JP)	

14:00–15:30 | Agora 2 - Agora

RISK PREDICTION FOR SUDDEN CARDIAC DEATH AND ICD TREATMENTS

Rapid Fire Abstract

Chairperson(s): F. Aliyev (Baku, AZ); M. Taborsky (Olomouc, CZ)

- 14:00 **Targeted next-generation sequencing as a comprehensive test for patients with hypertrophic cardiomyopathy.** 3869
 – I. Mademont-Soler, J. Mates, O. Campuzano, G. Sarquella-Brugada, E. Arbelo, J. Brugada, P. Garcia-Pavia, R. Yotti, J.I. Gonzalez-Hevia, M. Borregan, F. Trujillo, F. Diaz, A. Diaz De Bustamante, A. Lopez Granados, R. Brugada (Girona, Barcelona, Madrid, Zaragoza, Seville, Santa Cruz de Tenerife and Córdoba, ES)
- 14:09 **Impact of the timing of coronary angiography in patients with resuscitated out of hospital cardiac arrest on survival.** 3870
 – P. Ribstein, C. Daubin, V. Roule, S. Goursaud, K. Blanchart, A. Lemaitre, R. Sabatier, E. Roupie, D. Ducheyron, F. Beygui (Caen, FR)
- 14:18 **Periodic Repolarization Dynamics as risk predictor in patients with Long-QT Syndrome.** 3871
 – K.D. Rizas, B.M. Beckmann, J. Kersch, S. Kaab, A. Bauer (Munich, DE)
- 14:27 **Periodic Repolarization Dynamics as risk predictor after myocardial infarction: PRD-MI study.** 3872
 – K.D. Rizas, C. Eick, N. Vdovin, A.J. Doller, W. Hamm, C.S. Zuern, A. Bauer (Munich and Tübingen, DE)
- 14:36 **Opening a new front in the fight against sudden cardiac death: is it time for near-term prevention?** 3873
 – N. Karam, C. Spaulding, A. Cariou, E. Marijon, X. Jouven (Paris, FR)
- 14:45 **Implantable cardiac defibrillator in the setting of tetralogy of fallot: data from the DAI-T4F National Registry.** 3874
 – A. Bouzeman, A. Sharifzadehgan, C. Marquie, E. Gandjbakhch, R. Martins, L. Fauchier, P. Defaye, J.M. Sellal, P. Mondoly, F. Labombarda, F. Anselme, N. Lellouche, J.B. Thambo, N. Combes, E. Marijon (Paris, Lille, Rennes, Tours, Grenoble, Nancy, Toulouse, Caen, Rouen, Créteil and Bordeaux, FR)
- 14:54 **Discriminators algorithm integrated into implantable defibrillator: diagnostic capacity analysis and impact in the reduction of inappropriate therapies.** 3875
 – C. Gunturiz Beltran, V. Bertomeu-Gonzalez, J. Moreno-Arribas, L. Perez, J.B. Martinez-Ferrer, J. Alzueta, M.F. Arcocha, A. Arenal, X. Vinolas, M. Alvarez, I. Anguera, R. Porro, J. Castillo-Castillo, A. Cordero, V. Bertomeu-Martinez (Alicante, A Coruña, Vitoria, Málaga, Bilbao, Madrid, Barcelona, Granada and Caceres, ES)
- 15:03 **Cardioverter-defibrillators in hypertrophic cardiomyopathy: a French multicenter study.** 3876
 – P.-C. Flechon, H. Blangy, N. Girerd, A. Duva-Pentiah, C. Marquie, D. Klug, C. Leclercq, P. Defaye, S. Boveda, O. Piot, N. Sadoul (Vandoeuvre-lès-Nancy, Lille, Rennes, Grenoble, Toulouse and Saint-Denis, FR)
- 15:12 **Primary prevention of sudden death with ICD therapy in the Nordic arrhythmogenic cardiomyopathy registry.** 3877
 – P.G. Platonov, K.H. Haugaa, H.K. Jensen, H.K. Bundgaard, A. Svensson, T. Gilljam, J. Hansen, A.G. Holst, T. Edvardsen, J.H. Svendsen (Lund, Linköping and Gothenburg, SE; Oslo, NO; Aarhus, Copenhagen and Gentofte, DK)
- 15:21 **Subcutaneous versus transvenous implantable defibrillator therapy: A meta-analysis of case-control studies.** 3878
 – I. Basu Ray, J. Liu, X.M. Jia, W. Lam, A. Nazeri, A. Lopez, J. Seger, I. Giorgberidze, M. Razavi, M. Mathuria, A. Rasekh, H. Afsar, M. Saeed (Houston, US)

14:00–15:30 | Dublin - Village 1

GENETICS AND GENE THERAPY IN CARDIOVASCULAR DISEASES

Advances in Science

Chairperson(s): D. Hilfiker-Kleiner (Hannover, DE); Y. Devaux (Luxembourg, LU)

- 14:00 **State of the Art: cardiovascular genetics and gene therapy in cardiovascular diseases.** 3879
 – D. Thomas (Heidelberg, DE)
- 14:18 **Correcting the PRKAG2 mutation in WPW patient's induced pluripotent stem cells using CRISPR/Cas9 eliminates arrhythmic firing patterns in the derived cardiomyocytes.** 3880
 – R. Ben Jehuda, B. Eisen, Y. Shemer, L.N. Mekies, S.R. Sperling, M. Gherghiceanu, M. Arad, O. Binah (Haifa and Tel Hashomer, IL; Berlin, DE; Bucharest, RO)
- 14:36 **Restoration of normal sinus node physiology in a model of sick sinus syndrome; Tbx18 overexpression improves heart rate, rate stability and adrenergic response.** 3881
 – N. Black, M. Choudhury, J.F. Yanni, A. D'Souza, P. Kingston, H. Dobrzynski, M.R. Boyett, G.M. Morris (Manchester, UK)
- 14:54 **A heart-enriched antisense long non-coding RNA regulates the balance between cardiac and skeletal muscle triadin.** 3882
 – L. Zhang, A. Salgado-Somoza, M. Vausort, P. Leszek, Y. Devaux (Strassen, LU; Warsaw, PL)
- 15:12 **Perspectives and challenges of genetic correction and gene editing.** 3883
 – E.M. McNally (Chicago, US)

14:00–15:30 | Fira - Village 1

DISSECTING THE SECRETOME IN THE “OMICS” ERA
Cardiovascular Research Journal session

Symposium

Chairperson(s): P. Ferdinandy (Budapest, HU); C. Weber (Munich, DE)

- 14:00 **Metabolomic profiling in cardiac hypertrophy and failure.** 3884
– C. Perrino (Naples, IT)
- 14:22 **Impact and role of proteomics in cardiovascular disease.** 3885
– M. Mayr (London, UK)
- 14:45 **Lipidomics to discover new biomarkers for cardiovascular risk.** 3886
– M.H. Laaksonen (Espoo, FI)
- 15:07 **Extra cellular vesicles as biomarkers and novel therapeutic targets.** 3887
– J.P.G. Sluijter (Utrecht, NL)

14:00–15:30 | Astana - Village 2

HYPERTENSION URGENCIES AND EMERGENCIES: HOW TO MANAGE?

Symposium

Chairperson(s): B. Pieske (Berlin, DE); I. Sudano (Zurich, CH)

- 14:00 **Management of accelerated hypertension.** 3888
– F. Mahfoud (Homburg, DE)
- 14:22 **Hypertension management in acute stroke.** 3889
– To be announced
- 14:45 **Blood pressure management in acute and chronic aortic dissection.** 3890
– T. Kahan (Stockholm, SE)
- 15:07 **Management of hypertension in pregnancy.** 3891
– M. Brown (Kogarah, AU)



14:00–15:30 | Pristina - Village 2

STRATEGIES TO IMPROVE THE TREATMENT OF HYPERTENSION

Advances in Science

Chairperson(s): R.E. Schmieder (Erlangen, DE); K. Elafi (Benghazi, LY)

- 14:00 **State of the Art: adherence to blood pressure treatment.** 3892
– M. Burnier (Lausanne, CH)
- 14:18 **Comparison between first line dual-combination therapies in hypertension: nationwide population based cohort study.** 3893
– S.C. You, S. Jung, S. Park, R.W. Park (Suwon and Seoul, KR)
- 14:36 **Predictors of non-adherence to antihypertensive treatment: insights from liquid chromatography tandem mass spectrometry based analysis.** 3894
– P. Gupta, P. Patel, B. Strauch, F.Y. Lai, A. Akbarov, G. Gulsin, V. Maresova, J. Rosa, R. Cole, P.R. Smith, J. Widimsky, N.J. Samani, B. Williams, M. Tomaszewski (Leicester, Manchester and London, UK; Prague, CZ)
- 14:54 **24-h systolic blood pressure load represents an important variable in determining the cardiovascular risk of white-coat hypertension.** 3895
– G. Seravalle, M. Bombelli, P. Villa, M. Macchiarulo, M. Gardini, L. Parma, F. Nicoli, E. Scotton, S. Rizzo, R. Facchetti, G. Mancia, G. Grassi (Milan and Monza, IT)
- 15:12 **A polypill for CVD prevention in hypertension?** 3896
– S. Yusuf (Hamilton, CA)

14:00–15:30 | Beirut - Village 3

CATCH ME – MANAGEMENT OF PATIENTS WITH ATRIAL FIBRILLATION

Symposium

- 14:00 **Apps in health care and presentation of the Afib Catch me App of the ESC.** 3897
– D. Kotecha (Birmingham, UK)
- 14:22 **Patient App My AF.** 3898
– L. Fabritz (Birmingham, UK)
- 14:45 **Demonstration of the practical use of the App.** 3899
– E. Guasch (Barcelona, ES), L. Mont (Barcelona, ES)

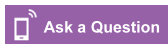
14:00–15:30 | Riga - Village 3

ASSESSING LEFT VENTRICULAR FUNCTION IN CLINICAL PRACTICE

Expert Advice

Chairperson(s): A. Kitsiou (Athens, GR); D. Milicic (Zagreb, HR)

- 14:00 **Analysing left ventricular function by echo: this is what you should do.** 3900
– B.A. Popescu (Bucharest, RO)
- 14:22 **Diastolic function in echocardiography. The why and the how.** 3901
– J.K. Oh (Rochester, US)
- 14:45 **Echocardiography, dyssynchrony and CRT: let’s have another look.** 3902
– J.U. Voigt (Leuven, BE)
- 15:07 **Analysing ventricular function by MR and when it should be used.** 3903
– J.S. Schwitler (Lausanne, CH)



14:00–15:30 | Chisinau - Village 4



FINDING THE RIGHT MEASURE: HOW TO TAILOR REHABILITATION TO CARDIAC INTERVENTIONS

Expert Advice

Chairperson(s): C. Marko (Vienna, AT); M.-C. Iliou (Issy-les-Moulineaux, FR)

- 14:00 **Cardiac rehabilitation following pacemaker, ICD and CRT implantation.** 3904
– J.-P. Schmid (Barmelweid, CH)
- 14:22 **Is cardiac rehabilitation different - or needed - for patients with TAVI?** 3905
– A. Abreu (Lisbon, PT)
- 14:45 **Timing of cardiac rehabilitation: the earlier the better?** 3906
– M. Wilhelm (Bern, CH)
- 15:07 **Exercising with LVAD - Possible? Useful? Necessary?** 3907
– U. Corra (Veruno, IT)

14:00–15:30 | Vilnius - Village 4

CARDIOVASCULAR DISEASE PREVENTION WITH ANTIHYPERGLYCAEMIC AND CHOLESTEROL LOWERING THERAPY IN TYPE 2 DIABETES

Advances in Science

Chairperson(s): D.A. Wood (London, UK); S. Kale (Pune, IN)

- 14:00 **State of the Art: cardiovascular disease prevention with antihyperglycaemic and cholesterol lowering therapy in type 2 diabetes.** 3908
– B. Neal (Sydney, AU)
- 14:18 **Risk of major cardiovascular events in patients with type 2 diabetes with and without prior cardiovascular events: results from the LEADER trial.** 3909
– N.R. Poulter, S.C. Bain, J.B. Buse, T. Monk-Hansen, M. Nauck, S. Rasmussen, R. Pratley, B. Zinman, D. Orsted, S.P. Marso (London and Swansea, UK; Chapel Hill, Orlando and Kansas City, US; Søborg, DK; Bochum, DE; Toronto, CA)
- 14:36 **SUSTAIN 6: a post-hoc analysis of the effect of semaglutide on cardiovascular outcomes over time in subjects with type 2 diabetes.** 3910
– E. Jodar, J. Seufert, L.H. Damgaard, A.G. Holst, L.A. Leiter (Madrid, ES; Freiburg, DE; Søborg, DK; Toronto, CA)
- 14:54 **Impact of CETP inhibition with evacetrapib in patients with diabetes mellitus: results from ACCELERATE.** 3911
– V. Menon, A.M. Lincoff, S.J. Nicholls, P.J. Barter, B.H. Brewer, K.A.A. Fox, C.M. Gibson, C. Granger, G. Montalescot, D. Rader, A.R. Tall, G. Ruotolo, J. Riesmayer, J. St John, S.E. Nissen (Cleveland, Washington, Boston, Durham, Philadelphia, New York and Indianapolis, US; Adelaide and Sydney, AU; Edinburgh, UK; Paris, FR)
- 15:12 **Cardiovascular outcome trials in type 2 diabetes: lessons learned and questions to ask.** 3912
– L. Ryden (Stockholm, SE)

14:00–15:30 | Skopje - Village 5

HOW TO PREVENT SUDDEN CARDIAC DEATH IN CONGENITAL HEART DISEASE?

Case-based Symposium

Chairperson(s): P. Gallego Garcia De Vinuesa (Seville, ES); M. Schwerzmann (Bern, CH)

- 14:00 **Syncope in a patient with a systemic right ventricle.** 3913
– K. Wasmer (Münster, DE)
- 14:30 **Severe pulmonary regurgitation and arrhythmias in a patient after Fallot repair.** 3914
– L. Swan (London, UK)
- 15:00 **Risk stratification for sudden cardiac death in congenital heart disease - State of the Art.** 3915
– N.M.S. de Groot (Beinsdorp, NL)

14:00–15:30 | Valetta - Village 5



OPTIMISING CARDIAC RESYNCHRONISATION THERAPY

Expert Advice

Chairperson(s): A. Auricchio (Lugano, CH); G. Boriani (Castenaso, IT)

- 14:00 **Strategies to optimally select patients for CRT.** 3916
– F. Braunschweig (Stockholm, SE)
- 14:22 **Optimal left ventricular lead placement.** 3917
– M. Gilkson (Ramat Gan, IL)
- 14:45 **Tips and tricks for advanced CRT programming.** 3918
– H. Burri (Geneva, CH)
- 15:07 **A systematic approach to non-responders in CRT.** 3919
– K. Heist (Boston, US)

14:00–15:30 | Bishkek - Village 6

SEVERE SECONDARY MITRAL REGURGITATION IN HEART FAILURE: A HOLISTIC APPROACH Symposium

Chairperson(s): N. Ajmone Marsan (Leiden, NL); L. Torracca (Rozzano, IT)

- 14:00 **Setting the stage - Evaluation of mitral regurgitation.** 3920
– P. Lancellotti (Liège, BE)
- 14:18 **Medical treatment - When and how to treat functional mitral regurgitation conservatively.** 3921
– A.S. Petronio (Pisa, IT)
- 14:36 **Secondary mitral regurgitation in heart failure: the influence of CRT.** 3922
– C. Linde (Stockholm, SE)
- 14:54 **Secondary mitral regurgitation: when to perform percutaneous repair.** 3923
– J. Hausleiter (Munich, DE)
- 15:12 **The when and how of surgery for secondary mitral regurgitation.** 3924
– O. Alfieri (Milan, IT)

14:00–15:30 | Luxembourg - Village 6



TAILORED ANTIPLATELET THERAPY IN PCI

Meet the Experts case discussions

Chairperson(s): L. Mauri (Boston, US); J.A.C. Morais (Leiria, PT)

- 14:00 **Tailored antiplatelet therapy in PCI - Introduction to the session.** 3925
– L. Mauri (Boston, US)
- 14:05 **Patient with a bleeding complication three weeks after DES implantation.** 3926
– P. Kala (Brno, CZ)
- 14:15 **Patient with a bleeding complication three weeks after DES implantation - Panel discussion and questions from the audience.** 3927
– D. Zahger (Beer Sheva, IL), S. Schuepke (Munich, DE)
- 14:30 **Patient with bioresorbable scaffold thrombosis: 13 months after PCI.** 3928
– A. Avezum (São Paulo, BR)
- 14:40 **Patient with bioresorbable scaffold thrombosis: 13 months after PCI - Panel discussion and questions from the audience.** 3929
– D. Zahger (Beer Sheva, IL), S. Schuepke (Munich, DE)
- 14:55 **Patient on ticagrelor one month after PCI with new onset atrial fibrillation.** 3930
– P. Capranzano (Catania, IT)
- 15:05 **Patient on ticagrelor one month after PCI with new onset atrial fibrillation - Panel discussion and questions from the audience.** 3931
– D. Zahger (Beer Sheva, IL), S. Schuepke (Munich, DE)
- 15:20 **Tailored antiplatelet therapy in PCI - Take home message on the cases presented.** 3932
– J.A.C. Morais (Leiria, PT)

14:00–15:30 | Podgorica - Village 6

DEBATES IN PERIPHERAL VASCULAR DISEASE

Debate Session

Chairperson(s): D. de Padua Brasil (Belo Horizonte, BR); I. Ikonomidis (Athens, GR)

- 14:00 **Patients with coronary artery disease should be screened for peripheral vascular disease - PRO.** 3933
– M.G. Sprynger (Liège, BE)
- 14:20 **Patients with coronary artery disease should be screened for peripheral vascular disease - CON.** 3934
– J.-P. Collet (Paris, FR)
- 14:40 **Patients with coronary artery disease should be screened for peripheral vascular disease - Further arguments and conclusion.** 3935
– D. de Padua Brasil (Belo Horizonte, BR)
- 14:45 **Once pulmonary embolism is detected, venous duplex ultrasound is unnecessary - PRO.** 3936
– I. Desormais (Limoges, FR)
- 15:05 **Once pulmonary embolism is detected, venous duplex ultrasound is unnecessary - CON.** 3937
– A. Alatri (Lausanne, CH)
- 15:25 **Once pulmonary embolism is detected, venous duplex ultrasound is unnecessary - Further arguments and conclusion.** 3938
– I. Ikonomidis (Athens, GR)

14:00–15:30 | Oslo - Village 7



TAVI: A NEW STANDARD FOR AORTIC VALVE REPLACEMENT?

Advances in Science

Chairperson(s): G. Mikhail (London, UK); J. Stepińska (Warsaw, PL)

- 14:00 **State of the Art: TAVI indications and adoption: a dynamic field.** 3939
– M. Mack (Plano, US)
- 14:18 **Thirty-day and long-term outcomes after transcatheter aortic valve implantation from first-in-man to nowadays: 15 years experience of a pioneered center.** 3940
– E. Durand, G. Avinee, C. Tron, N. Bettinger, N. Bouhzam, J.N. Dacher, F. Bauer, P.Y. Litzler, A. Cribier, H. Eltchaninoff (Rouen, FR)
- 14:36 **Worse outcome of patients with normal ejection fraction but low-gradient aortic valve stenosis after transcatheter aortic valve implantation (TAVI).** 3941
– U. Fischer-Rasokat, W.K. Kim, C. Liebetrau, A. Van Linden, M. Arsalan, M. Renker, A. Berkowitsch, H. Moellmann, T. Walther, C.W. Hamm (Bad Nauheim and Dortmund, DE)
- 14:54 **Natural history and prognostic significance of pulmonary hypertension in patients undergoing TAVR for severe aortic stenosis.** 3942
– B. Alushi, M. Reinthaler, B. Staehli, B. Bellmann, H.R. Figulla, A. Morguet, U. Landmesser, M. Franz, A. Lauten (Berlin and Jena, DE)
- 15:12 **TAVI complications: incidence, trends and management.** 3943
– A. Chieffo (Milan, IT)

14:00–15:30 | Rabat - Village 7

DILATED CARDIOMYOPATHY: THE CLINICAL RELEVANCE OF GENETIC ASSESSMENT

Advances in Science

Chairperson(s): L. Monserrat (A Coruña, ES); S.B. Felix (Greifswald, DE)

- 14:00 **State of the Art: genetic assessment in dilated cardiomyopathy.** 3944
– L. Mestroni (Aurora, US)
- 14:18 **Defining the genetic architecture of dilated cardiomyopathy- insights from population genetic variation and the role of titin.** 3945
– U. Tayal, S. Newsome, R. Walsh, I. Voges, N. Whiffin, R. Buchan, B. Halliday, A. Lota, P.J. Barton, R. Baruah, J. Jarman, M. Frenneaux, J.S. Ware, S.A. Cook, S.K. Prasad (London, UK; Singapore, SG)
- 14:36 **Comparison of genetic signature of isolated left ventricular non-compaction cardiomyopathy and familial dilated cardiomyopathy as assessed by whole exome sequencing.** 3946
– M. Kubanek, A. Krebsova, L. Piherova, V. Stranecky, M. Macek Jr, R. Kockova, T. Palecek, F. Malek, V. Melenovsky, S. Knoch, J. Kautzner (Prague, CZ)
- 14:54 **Yield of clinical and genetic cascade screening among 436 relatives of 111 consecutive index-patients with dilated cardiomyopathy.** 3947
– T.M. Hey, M. Harbo, M.M. Aagaard, T. Madsen, T.B. Rasmussen, T. Gadgaard, H. Moelgaard, J.E. Moeller, H. Eiskjaer, J. Mogensen (Odense, Vejle, Aalborg and Aarhus, DK)
- 15:12 **Dilated cardiomyopathy: from genetics to phenotype and prognosis.** 3948
– B. Meder (Heidelberg, DE)

14:00–15:30 | Bucharest - Village 8



MAKING AN IMPACT: OPTIMAL SECONDARY PREVENTION FOLLOWING ACUTE CORONARY SYNDROMES

Expert Advice

Chairperson(s): R.E. Collins (Oxford, UK); S.J. Nicholls (Adelaide, AU)

- 14:00 **Targeting lipids in patients after an acute coronary syndrome.** 3949
– J.-C. Tardif (Montreal, CA)
- 14:22 **Targeting inflammation in patients after an acute coronary syndrome.** 3950
– P. Libby (Boston, US)
- 14:45 **Novel non-pharmacological preventive approaches for acute coronary syndrome patients.** 3951
– H. Wienbergen (Bremen, DE)
- 15:07 **Optimal blood pressure control after acute coronary syndromes.** 3952
– To be announced

14:00–15:30 | Tripoli - Village 8



ACUTE CARDIAC CARE IN ELDERLY PATIENTS

Symposium

Acute Cardiovascular Care Association

Chairperson(s): M. Lettino (Milan, IT); S. Price (London, UK)

- 14:00 **Pre-hospital and emergency department assessment of chest pain in old patients.** 3953
– H. Bueno (Madrid, ES)
- 14:22 **Elderly patients with NSTEMI: when is an invasive approach appropriate?** 3954
– C. Hassager (Copenhagen, DK)
- 14:45 **Age, comorbidities and the appropriate level of care: the modern ICU.** 3955
– E. Bonnefoy-Cudraz (Bron, FR)
- 15:07 **Antithrombotic treatment in the elderly with acute coronary syndrome.** 3956
– I. Ahrens (Cologne, DE)

14:00–15:30 | Lisbon - Village 9

HEART FAILURE MANAGEMENT – AN UPDATE

A session with the Austrian Society of Cardiology

Chairperson(s): S.D. Anker (Berlin, DE); J. Mascherbauer (Vienna, AT)

14:00	Top ten messages from the 2016 heart failure guidelines.	3957
	– G. Poelzl (Innsbruck, AT)	
14:10	The perfect treatment for the imperfect patient - How guidelines affect our daily actions.	3958
	– T. Bernreiter (Wiener Neustadt, AT)	
14:20	Interpretation of guideline recommendations.	3959
	– R. Steringer-Mascherbauer (Linz, AT)	
14:35	Heart failure guideline implementation: challenges and opportunities.	3960
	– D. Moertl (Vienna, AT)	
14:50	New evidence that has emerged since the guidelines were published.	3961
	– F.X. Roithinger (Mödling, AT)	
15:10	Panel discussion: heart failure management - Problems and opportunities.	3962
	– S.D. Anker (Berlin, DE), R. Berger (Eisenstadt, AT), D. Bondermann (Vienna, AT), J. Mascherbauer (Vienna, AT)	

14:00–15:30 | Warsaw - Village 9

OPTIONS AND CHALLENGES FOR DRUG THERAPY OF HEART FAILURE

Symposium

Chairperson(s): M. Lainscak (Murska Sobota, SI); F. Martinez (Córdoba, AR)

14:00	Should we use angiotensin receptor neprilysin inhibitor for all heart failure patients?	3963
	– M. Jessup (Boston, US)	
14:22	Elderly patients with heart failure: what are the therapeutic options?	3964
	– J. Fang (Salt Lake City, US)	
14:45	Potentially harmful drugs in patients with chronic heart failure.	3965
	– K.P. Kjeldsen (Holbæk, DK)	
15:07	Drug therapy of heart failure: what is next?	3966
	– E. Braunwald (Boston, US)	

Late-Breaking Science Posters (see page 223) are on display from 08:30 to 18:00.
From 15:35 to 16:25 Trialists Presenters will summarise their research and address questions from the Chairpersons and Audience.

Moderated Posters are on display from 14:00 to 18:00 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (15:35–16:25), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

15:35–16:25 | Moderated poster station - Poster Area

ADVANCES IN CARDIOVASCULAR SURGERY

Moderated Posters

Chairperson(s): A. Halliday (Oxford, UK); R.S. von Allmen (St. Gallen, CH)

Influence of peri-operative stroke on 5-year mortality following open heart surgery.	P3967
– J. Higgins, J. Bashir, J. Abel, P.R. Daniele, M.K. Lee, K.H. Humphries (Kitchener and Vancouver, CA)	
Does dual-antiplatelet therapy decrease the risk of stroke following coronary artery bypass grafting?	P3968
– J. Higgins, J. Bashir, J. Abel, K.H. Humphries, P.R. Daniele, M.K. Lee (Kitchener and Vancouver, CA)	
A more restrictive transfusion policy modifies the impact of preoperative anemia on strokes and other outcomes after cardiac surgery in adults.	P3969
– C.H. Gautier, J. Nader, A. Sebeyten, F. Pater, E. Lorne, P. Duhaut, T. Caus (Amiens, FR)	
Emergency endovascular repair for acute traumatic thoracic aortic transection.	P3970
– X. Pu, Y.I. Ning, X.Y. Huang, L.J. Huang (Beijing, CN)	
Clinical outcomes of patients with abdominal aortic aneurysm after endovascular repair according to combined presence of coronary or peripheral artery disease.	P3971
– O.H. Lee, Y.G. Ko, C.M. Ahn, J.S. Kim, D.H. Shin, B.K. Kim, D.H. Choi, D.Y. Lee, M.K. Hong, Y.S. Jang (Seoul, KR)	
Are morphologic findings of aortic intramural haematoma predictors of mortality in acute phase?	P3972
– S. Moral, G. Maldonado, D. Gruosso, H. Cuellar, J. Palet, J. Carballo, G. Teixido, L. Gutierrez, C.H. Granato, I. Dentamaro, G. Italiano, A. Evangelista (Barcelona, ES)	
Long-term outcome after acute aortic syndromes.	P3973
– A. Corsini, A. Foa', G. Norscini, V. Agostini, D. Pacini, G. Melandri, R. Di Bartolomeo, O. Leone, C. Rapezzi (Bologna, IT)	

15:35–16:25 | Moderated poster station - Poster Area

COMPUTER MODELLING

Moderated Posters

Chairperson(s): G. Guzman (Madrid, ES); J. Lumens (Maastricht, NL)

- The relationship between contrast-flow quantitative flow ratio and ischemia assessed by SPECT MPI.** P3974
 – J.M. Smit, G. Koning, A.R. Van Rosendaal, P. Dibbets-Schneider, B.J. Mertens, V. Delgado, J.H. Reiber, J.J. Bax, A.J. Scholte (Leiden, NL)
- A morphological and mechano-biological comparison between ascending thoracic aneurysms with bicuspid and tricuspid valves via in-vivo and ex-vivo investigation.** P3975
 – E. Vignali, K. Capellini, S. Celi, P. Losi, G. Vivoli, E. Cerone, V. Positano, L. Landini, M. Murzi, S. Berti (Massa, IT)
- The dominant parameters to determine the growth of arterial thrombi at site of endothelial injuries.** P3976
 – S. Goto, N. Tamura, K. Ayabe, S. Goto (Tokyo and Isehara, JP)
- Value of 3D printed left atrial appendix for predicting peri-prosthetics leaks and its usefulness in large cohort for guiding device optimal position in percutaneous left atrial appendage occlusion.** P3977
 – V. Ciobotaru, N. Combes, P. Pujadas (Nîmes and Toulouse, FR)
- Validation of a novel 3D holographic display for non-invasive quantification of mitral annular dynamics.** P3978
 – K.A. Dumont, J.P. Kitting, E.W. Remme, J. Hausken, J. Skaarud Karlsen, R. Lundblad, A.E. Fiane, S. Urheim (Oslo and Bergen, NO)
- Using large-tip ablation catheter markedly decreases bipolar signal amplitude near spiral wave center but this is not the case with using multi-electrode mapping catheter: A simulation study.** P3979
 – K. Sakata, Y. Okuyama, T. Ozawa, R. Haraguchi, M. Horie, T. Ashihara (Otsu and Kobe, JP)
- Haemodynamics of the left and right human ventricles: impact of trabeculae and papillary muscles.** P3980
 – F. Sacco, B. Paun, T.L. Iles, P.A. Iazzo, M. Vazquez, C. Butakoff, J. Aguado-Sierra (Barcelona, ES; Minneapolis, US)

15:35–16:25 | Moderated poster station - Poster Area

HEART FAILURE – DIAGNOSTIC ASSESSMENT

Moderated Posters

Chairperson(s): C.E. Angermann (Würzburg, DE); C. Stumpf (Bayreuth, DE)

- Prognostic value of transtricuspid pressure gradient assessment during ankle-flexing exercise echocardiography in patients with heart failure.** P3981
 – Y. Omae, A. Tanaka, M. Takenaka, A. Taruya, K. Kimura, H. Akagi (Shinjocho, Tanabe, Wakayama and Kimiidera, JP)
- EKG abnormalities in chronic chagas heart disease correlate with scar mass and left ventricular dysfunction as assessed by cardiac magnetic resonance imaging.** P3982
 – A. Schmidt, M.F. Braggion-Santos, M. Branco, H.T. Moreira, G.J. Volpe, M.V. Simoes, M.M.D. Romano, A. Pazin-Filho, B.C. Maciel, J.A. Marin-Neto (Ribeirao Preto, BR)
- ADMIRE-HF risk score improves the prognostic power of 6-minute walk test in patients with chronic heart failure: a long-term follow-up comparative study.** P3983
 – I. Ikeda, T. Yamada, T. Morita, Y. Furikawa, S. Tamaki, Y. Iwasaki, M. Kawasaki, A. Kikuchi, T. Kondou, M. Seo, E. Fukuhara, M. Abe, J. Nakamura, M. Fukunami (Osaka, JP)
- Reclassification of left ventricular dysfunction by means of global longitudinal strain.** P3984
 – E. Angeloni, S. Refice, V. Russo, M.P. Patrizi (Rome, IT)
- Analysis of the novel cardiac biomarkers ST2, GDF-15, suPAR, H-FABP and Fetuin A in heart failure with reduced ejection fraction.** P3985
 – P. Jirak, M. Lichtenauer, B. Wernly, V. Paar, I. Rohm, C. Jung, A. Yilmaz, U.C. Hoppe, P.C. Schulze, D. Kretzschmar, R. Pistulli (Salzburg, AT; Jena, Düsseldorf and Schmalkalden, DE)
- Circulating microRNAs correlate with heart failure presence and progression.** P3986
 – Y. D'Alessandra, M. Buzzetti, C. Ruggeri, A.P. Beltrami, M.C. Carena, C. Fortini, F. Cecaro, R. Ferrari, D. Cesselli, A. Aleksova, S. Sponga, G. Pompilio, G.I. Colombo (Milan, Udine, Ferrara and Trieste, IT)
- Targeted exome sequencing for mendelian cardiac disorders within the Genome Clinic in Geneva.** P3987
 – S. Fokstuen, M. Guipponi, E.B. Hammar, P. Makrythanasis, P.H. Meyer, M. Beghetti, N. Sekarski, E. Ranza, M. Lidgren, F.A. Santoni, C. Gehrigh, T.H. Noupikpel, S.E. Antonarakis, J.L. Blouin (Geneva and Lausanne, CH)

15:35–16:25 | Moderated poster station - Poster Area

SPORTS CARDIOLOGY: ADAPTION OR DISEASE

Moderated Posters

Chairperson(s): A. La Gerche (Melbourne, AU); M. Papadakis (London, UK)

Characterization of myocardial sarcomerodynamics and myocardial sarcomeric protein alterations in a rodent model of athlete's heart. P3988

– A. Olah, B. Bodi, J. Tamas, M. Torok, C. Matyas, A.A. Sayour, E. Urban, D. Kellermayer, M. Ruppert, B. Barta, K. Stark, B. Merkely, Z. Papp, T. Radovits (Budapest and Debrecen, HU)

Normative reference values for the right ventricle in competitive athletes. P3989

– F. D'Ascenzi, M. Solari, F. Lioacono, S. Caselli, M. Focardi, A. Pelliccia, M. Bonifazi, S. Mondillo (Siena and Rome, IT)

Exercise-induced arrhythmogenic right ventricular remodeling in master endurance athletes. P3990

– A. Zaidi, A. Merghani, V. Maestrini, S. Rosmini, R. Schofield, M. Papadakis, C. Manisty, J.C. Moon, S. Sharma (London, UK; Rome, IT)

Athlete's heart in children: exercise-induced right ventricular remodelling in preadolescent athletes. P3991

– F. D'Ascenzi, M. Solari, A. Malandrino, F. Anselmi, F. Valentini, M. Focardi, M. Bonifazi, S. Mondillo (Siena, IT)

Relationship between left ventricular trabeculation and physical activity in a middle-aged population cohort. P3992

– N. Aung, S.P. Woodbridge, J.M. Paiva, M.M. Sanghvi, F. Zemrak, J.A. Cooper, R.J. Thomson, K. Fung, E. Lukaschuk, A. Lee, V. Carapella, Y.J. Kim, S.K. Piechnik, S. Neubauer, S.E. Petersen (London and Oxford, UK)

Left ventricular trabeculae fractal dimension to distinguish hypertrophic cardiomyopathy from athlete's heart. P3993

– M. Gomez Llorente, D. Vilades, S. Pujadas, T. Donate, S. Mirabet, R. Leta, G. Pons-Llado, X. Garcia-Moll, F. Carreras (Logroño and Barcelona, ES)

15:35–16:25 | Moderated poster station - Poster Area

CARDIAC DEGENERATION AND SENESCENCE

Moderated Posters

Chairperson(s): D. Hilfiker-Kleiner (Hannover, DE); R. Schulz (Giessen, DE)

The protective role of neuregulin-1 and its receptor erbb4 in hyperglycemia-induced vascular senescence. P3994

– H. Shakeri, K. Lemmens, G. R.Y. De Meyer, V.F. Segers (Antwerp, BE)

Advanced glycation end-products and telomere shortening contribute to cardiac aging: the relationship with myocardial strain. P3995

– E.V. Plokhova, O.N. Tkacheva, D.U. Akasheva, I.D. Strazhesko, E.N. Dudinskaya, S.A. Boytsov (Moscow, RU)

Prospective study of differential effects of aerobic endurance, interval and resistance training on telomerase activity and telomere length in circulating mononuclear cells. P3996

– C. Werner, A. Hecksteden, J. Zundler, M. Wegmann, M. Böhm, T. Meyer, U. Laufs (Homburg and Saarbrücken, DE)

Catecholamine-induced cellular senescence in endothelium and bone marrow promotes cardiac inflammation and remodeling in mice. P3997

– G. Katsuomi, I. Shimizu, Y. Yoshida, M. Suda, Y. Hayashi, S. Jiao, T. Minamino (Niigata, JP)

Severity of coronary artery disease at the late period after low dose radiation exposure is influenced by leukocyte TRF1, TRF2 genes expression and telomere length. P3998

– D. Bazyka, I. Iliencko, O. Bazyka (Kiev, UA)

Excessive activation of beta-2 adrenergic receptors induces arrhythmic calcium oscillations and ryanodine receptor phosphorylation at ser2809 but not at ser2815. P3999

– V. Jimenez-Sabado, C. Nolla, G. Chun, X. Cheng, C. Tarifa, A. Herraiz-Martinez, A. Vallmitjana, S.R.W. Chen, R. Benitez, G.F. Tibbits, L. Hove-Madsen (Barcelona, ES; Burnaby and Calgary, CA)

Pressure-induced endothelial-to-mesenchymal transition is via a caveolin-1 dependent mechanism. P4000

– W.A. Shihata, K.L. Andrews, A.K. Sampson, L. Fang, A.J. Murphy, D.M. Kaye, J.P.F. Chin-Dusting (Melbourne, AU)

15:35–16:25 | Moderated poster station - Poster Area

CTEPH: CATHETER-DIRECTED AND SURGICAL THERAPY

Moderated Posters

Chairperson(s): T. Walther (Bad Nauheim, DE); I.M. Lang (Vienna, AT)

- A German single centre two-years experience of pulmonary balloon angioplasty in patients with chronic thromboembolic pulmonary hypertension.** P4001
 – C. Liebetrau, C.B.W. Wiedenroth, A.B. Breithecker, M.H. Haas, R.H. Huetz, H.A.G. Ghofrani, S.G. Guth, C.W.H. Hamm, E.M. Mayer (Bad Nauheim, DE)
- Outcome after pulmonary endarterectomy for chronic thromboembolic pulmonary hypertension - a German single centre two-year experience.** P4002
 – M. Lankeit, S. Koelmel, V. Krieg, L. Hobohm, C. Liebetrau, S. Konstantinides, E. Mayer, C.B. Wiedenroth, S. Guth (Berlin, Mainz and Bad Nauheim, DE)
- Right atrial function and prognosis in pulmonary arterial hypertension.** P4003
 – M. D'Alto, A. D'Andrea, G. Di Salvo, G. Scognamiglio, P. Argiento, E. Romeo, G.M. Di Marco, A. Mattera Iacono, B. Sarubbi, M.G. Russo (Naples, IT; London, UK)
- Pulmonary artery denervation for improving outcome in patients with residual pulmonary hypertension after pulmonary thromboendarterectomy. Evaluation of results 12 months after PADN.** P4004
 – N. Novikova, A. Cherniavskiy, E. Pokushalov, A. Edemskiy, A. Romanov (Novosibirsk, RU)
- Poor subpleural perfusion as a predictor of failure after balloon pulmonary angioplasty for non-operable chronic thromboembolic pulmonary hypertension.** P4005
 – Y. Taniguchi, P. Brenot, X. Jais, C. Garcia, O. Planche, E. Fadel, M. Humbert, G. Simonneau (Le Kremlin-Bicêtre and Le Plessis-Robinson, FR)
- Characterization of leucocyte subpopulations in circulating blood of patients with chronic thromboembolic pulmonary hypertension (CTEPH).** P4006
 – S. Voss, C. Wiedenroth, L. Essmann, C. Troidl, H. Nef, O. Doerr, C. Lipps, J. Hoffmann, G. Aleshcheva, E. Mayer, C. Hamm, C. Liebetrau (Bad Nauheim, Giessen and Frankfurt, DE)
- Right ventricular strain predicts exercise tolerance after balloon pulmonary angioplasty in patients with chronic thromboembolic pulmonary hypertension.** P4007
 – T. Tsugu, M. Murata, T. Kawamura, M. Kataoka, Y. Minakata, H. Tsuruta, Y. Itabashi, Y. Maekawa, H. Mitamura, K. Fukuda (Tokyo, JP)

15:35–16:25 | Moderated poster station - Poster Area

REMAINING IN THE SPOTLIGHT: ANTIPLATELET AGENTS

Moderated Posters

Chairperson(s): S. Goto (Isehara, JP); D. Vinereanu (Bucharest, RO)

- Stroke rate after twelve versus 30 month dual antiplatelet therapy in percutaneous coronary intervention patients using Korean National Health Insurance Service (NHIS).** P4008
 – K.M. Lee, M.H. Kim, S.Y. Choi, S.J. Kim, H.B. Kim, S.Y. Kang, V. Serebruany (Busan and Daegu, KR; Towson, US)
- Temporal trends in the use of antiplatelet therapy in patients with acute coronary syndromes.** P4009
 – M.A. Esteve Pastor, J.M. Ruiz-Nodar, E. Orenes-Pinero, J.M. Rivera-Caravaca, M. Quintana-Giner, A. Veliz-Martinez, V. Pernias Escrig, M. Sandin Rollan, N. Vicente Ibarra, M.J. Macias Villanago, E. Candela, L. Carrillo, T. Lozano, M. Valdes, F. Marin (Murcia, Alicante and Elche, ES)
- The effect of CYP2C19 gene polymorphism on clinical outcomes in patients with CAD receiving antiplatelet therapy.** P4010
 – W. Liu, Z.W. Xi, Y.J. Zhou (Beijing, CN)
- Efficacy and safety of perioperative aspirin therapy in non-cardiac surgery: a systematic review and comprehensive meta-analysis of randomized controlled trials.** P4011
 – G. Wolff, E.P. Navarese, M. Brockmeyer, Y.F. Lin, A. Karathanos, M. Kolodziejczak, J. Kubica, T. Zeus, R. Westenfeld, F. Andreotti, M. Kelm, V. Schulze (Düsseldorf, DE; Bydgoszcz, PL; Rome, IT)
- Antiplatelet therapy and adverse outcomes in high cardiovascular risk elderly patients: a sex and gender focused analysis from REPOSI study.** P4012
 – V. Raparelli, M. Proietti, L. Napoleone, G.F. Romiti, A. Nobili, P.M. Mannucci, S. Basili (Rome and Milan, IT; Birmingham, UK)
- Anti-platelet effect of intravenous P2Y12 receptor inhibitor cangrelor is not influenced by reticulated platelets.** P4013
 – C. Stratz, P. Kleiner, I. Younas, N. Loeffelhardt, C.M. Valina, T. Nuehrenberg, D. Trenk, F.J. Neumann, W. Hochholzer (Bad Krozingen, DE)
- In vitro inhibition of MRP4 mediated transport reduces HARPR in patients under chronic aspirin treatment.** P4014
 – L. Alemanno, I. Massimi, V. Klaus, M.L. Guarino, D.J. Angiolillo, F.M. Pulcinelli (Rome, IT; Würzburg, DE; Jacksonville, US)

15:35–16:25 | Moderated poster station - Poster Area

PROGRESS IN STROKE PREVENTION IN ATRIAL FIBRILLATION	Moderated Posters
Chairperson(s): G. Breithardt (Münster, DE); N.M.S. de Groot (Beinsdorp, NL)	
Adherence to anticoagulant drugs in patients with atrial fibrillation and stroke in real clinical practice.	P4015
– D. Duplyakov, I. Zolotovskaya, I. Davydkin (Samara, RU)	
Outcomes in vitamin K antagonist treated atrial fibrillation patients with stable international normalized ratios.	P4016
– A. Nissen Bonde, L. Staerk, G. Gislason, C. Torp-Pedersen, G.Y.H. Lip, J.B. Olesen (Gentofte and Aalborg, DK; Birmingham, UK)	
Periprocedural anticoagulation is associated with the risk of thromboembolism after elective cardioversion of atrial fibrillation.	P4017
– T.A. Hellman, T. Kiviniemi, I. Nuotio, T. Vasankari, J. Hartikainen, G.Y.H. Lip, K.E. Airaksinen (Turku and Kuopio, FI; Birmingham, UK)	
Reduced fibrin clot permeability is associated with an increased risk of both ischemic stroke and major bleeding in atrial fibrillation patients treated with vitamin K antagonists.	P4018
– A. Undas, L. Drabik, P. Wolkow (Krakow, PL)	
The impact of age on the effectiveness and safety of the NOACs versus warfarin for stroke prevention in atrial fibrillation.	P4019
– P. Noseworthy, X. Yao, N.D. Shah (Rochester, US)	
Use of novel oral anticoagulants in patients with atrial fibrillation and moderate to severe renal dysfunction: findings from a prospective national registry.	P4020
– A. Sabbag, R. Klempfner, N. Shlomo, A. Elis, A. Israel, I. Goldenberg (Ramat Gan and Petah Tikva, IL)	
Effectiveness and safety of direct oral anticoagulants compared to vitamin-k antagonists: results from a cohort study in the nationwide French claims and hospitalisation database (SNIIRAM).	P4021
– Y. Cottin, P. Blin, J. Benichou, C. Dureau-Pournin, A. Abouelfath, R. Lassalle, C. Droz-Perroteau, P. Mismetti, N. Moore (Dijon, Bordeaux, Rouen and Saint-Etienne, FR)	

15:35–16:25 | Moderated poster station - Poster Area

ALTERNATIVE TREATMENTS FOR MYOCARDIAL ISCHAEMIA?	Moderated Posters
Chairperson(s): D.J. Moliterno (Lexington, US); F.R. Eberli (Zurich, CH)	
Clinical implications and mechanistic role of eosinophils after reperfused myocardial infarction. Study in patients and swine.	P4022
– C. Rios Navarro, A. Ruiz-Sauri, V. Vidal, E. De Dios, N. Perez-Sole, J. Gavara, N. Daghbouche-Rubio, C. Bonanad, G. Minana, F.J. Chorro, V. Bodi (Valencia, ES)	
A multicenter trial of extracorporeal cardiac shock wave therapy for refractory angina pectoris - Results from the highly advanced medical treatment in Japan.	P4023
– Y. Kikuchi, K. Ito, T. Shindo, K. Hao, T. Shioto, Y. Matsumoto, J. Takahashi, T. Matsubara, A. Yamada, Y. Ozaki, M. Hiroe, K. Misumi, Y. Tomata, I. Tsuji, H. Shimokawa (Sendai, Kanazawa, Toyooka and Matsudo, JP)	
Long term outcome of patients with chronic refractory angina treated by cardiac shockwave therapy.	P4024
– J. Vainer, A. Lousberg, J. Habets, J. Heijman (Maastricht, NL)	
Sympathetic renal denervation after acute myocardial infarction results in increased myocardial salvage in pigs.	P4025
– L.E. Pastormerlo, S. Burchielli, M. Ciardetti, C. Grigoratos, F. Bernini, E. Benelli, V. Castiglioni, A. Giorgetti, P. Marzullo, G. Acquaro, M. Franzini, C. Passino, M. Emdin (Pisa, IT)	
Short-term blockade of the S100A8/A9 alarmin in the immediate post-myocardial infarction period inhibits acute myocardial inflammation and preserves myocardial repair.	P4026
– A. Schiopu, G. Marinkovic, L. De Camp, L. Winkler, R. Mares, O.S. Cotoi, J. Nilsson, S. Jovinge (Malmö, SE; Grand Rapids, US; Târgu Mureş, RO)	
Safety and high-grade myocardial uptake of Whartons Jelly Plurioptent Stem Cells transcatheter transfer in acute myocardial infarction in man.	P4027
– P. Musialek, A. Mazurek, E. Kwieciën, L. Drabik, L. Tekieli, W. Szot, M. Kostkiewicz, D. Jarocha, R.P. Banys, M. Urbanczyk, W. Plazak, M. Olszowska, K. Zmudka, P. Podolec, M. Majka (Krakow, PL; Philadelphia, US)	

15:40–16:00 | Spotlight Stage

Today on ESC TV

ESC Clinical Practice Guidelines

MEET THE GUIDELINES TASK FORCE – AMI-STEMI		Special Session
Chairperson(s): B. Ibanez (Madrid, ES); S. James (Uppsala, SE)		
15:40	AMI-STEMI.	4028
– S. James (Uppsala, SE)		
15:50	Panel discussion: AMI-STEMI.	4029
– S. Agewall (Oslo, NO), C. Bucciarelli-Ducci (Bristol, UK), S. Halvorsen (Oslo, NO), E. Prescott (Copenhagen, DK), M. Roffi (Geneva, CH), M. Valgimigli (Bern, CH), P. Vranckx (Hasselt, BE)		

15:40–16:00 | Dali - The Hub

Today on ESC TV

MEET THE TRIALISTS – EMANATE

Meet the Trialists

Chairperson(s): J.C. Nielsen (Aarhus, DK)

- 15:40 **Apixaban vs conventional therapy in anticoagulation-naive patients with atrial fibrillation undergoing cardioversion: The EMANATE Trial.** 4030
 – M.D. Ezekowitz (Millanova, US)

15:40–16:30 | Agora 1 - Agora

ESC GRANTS FOR MEDICAL RESEARCH INNOVATION

Special Session

Chairperson(s): F. Cosentino (Stockholm, SE); J.A.C. Morais (Leiria, PT)

- 15:40 **Modeling the Individual Risk of Thrombosis in Oncology (MIRTO).** 4031
 – J.M. Soria Fernandez (Sant Pau, ES)
- 15:50 **The importance of type of antithrombotic treatment after aortic valve replacement for the risk of future thromboembolic and bleeding events in aortic stenosis – Comparison of mechanical-, bio prosthetic and trans-catheter (TAVI) aortic valve replacement.** 4032
 – C. Christersson (Uppsala, SE)
- 16:00 **Dual approach cardiac MRI for molecular assessment and interventional treatment of vulnerable coronary plaques in a porcine model.** 4033
 – T. Heidt (Freiburg, DE)
- 16:10 **Systemic versus site targeted treatment of neoatherosclerosis.** 4034
 – M. Joner (Munich, DE)
- 16:20 **Identification of mirRNA profiles associated with venous thromboembolism and recurrent events (IMPROVEMENTS).** 4035
 – D. Tregouet (Paris, FR)

15:40–16:20 | Agora 2 - Agora

eHEALTH AND THE ESC CLINICAL PRACTICE GUIDELINES

Special Session

Chairperson(s): M.R. Cowie (London, UK); E.T. van der Velde (Leiden, NL)

- 15:40 **Telerehabilitation for cardiovascular disease prevention.** 4036
 – I. Frederix (Rotselaar, BE)
- 16:00 **Role of ehealth applications in heart failure management.** 4037
 – F. Koehler (Berlin, DE)

15:40–16:20 | Riga - Village 3

Ask a Question

IMAGE INTERPRETATION WITH THE MASTERS – VALVULAR HEART DISEASE

Special Session

Chairperson(s): B. Griffin (Cleveland, US); R.P. Martin (Atlanta, US)

- 15:40 **It's not just the valve: imaging bicuspid aortic disease.** 4038
 – M.L. Enriquez-Sarano (Rochester, US)
- 15:53 **Quantifying mitral regurgitation.** 4039
 – A. Klein (Cleveland, US)
- 16:06 **Rheumatic heart valve disease - What to look for?** 4040
 – F. Peters (Johannesburg, ZA)

15:45–16:15 | Gaudi - The Hub

ADDRESSING THE NEEDS OF THE MULTI-MORBID PATIENTS WITH ATRIAL FIBRILLATION (AF)

Satellite Symposium - Experts on the Spot

Sponsored by Bayer AG

Chairperson(s): K.A.A. Fox (Edinburgh, UK)

- 15:45 **Opening remarks - Addressing the needs of the multi-morbid patients with AF.** 4041
 – K.A.A. Fox (Edinburgh, UK), C.T. Ruff (Boston, US)
- 15:50 **Interactive discussion... Profiling and treating the multi-morbid patient with AF.** 4042
 – K.A.A. Fox (Edinburgh, UK), C.T. Ruff (Boston, US)
- 16:10 **Closing remarks - Addressing the needs of the multi-morbid patients with AF.** 4043
 – K.A.A. Fox (Edinburgh, UK), C.T. Ruff (Boston, US)

Please refer to the Satellite Symposium scheduled on Monday 28 August, 12:45–13:45 in Chisinau - Village 4.

15:45–16:15 | Goya - The Hub

MODERN MANAGEMENT OF DIABETES IN CARDIOLOGY: IMPACT OF SGLT2 INHIBITION ON CARDIOVASCULAR OUTCOMES AND HEART FAILURE Satellite Symposium - Experts on the Spot

Organised by Physicians' Academy for Cardiovascular Education, supported with an educational grant by Boehringer Ingelheim/Lilly

Chairperson(s): J.E. Deanfield (London, UK)

15:45 **Introduction - Modern management of diabetes in cardiology: impact of SGLT2 inhibition on cardiovascular outcomes and heart failure.** 4044

– J.E. Deanfield (London, UK)

15:50 **SGLT2 inhibition in cardiology: what a cardiologist needs to know.** 4045

– N. Sattar (Glasgow, UK)

15:55 **Panel discussion; SGLT2 in clinical cardiology.** 4046

– S.D. Anker (Berlin, DE), N. Sattar (Glasgow, UK), J.E. Deanfield (London, UK), D. Fitchett (Toronto, CA)

Please refer to the Satellite Symposium scheduled on Monday 28 August, 12:45–13:45 in Vilnius - Village 4.

15:45–16:15 | Miro - The Hub

ATHEROSCLEROSIS, CARDIOVASCULAR RISK FACTORS AND SECONDARY PREVENTION: ARE WE MAKING PROGRESS? Satellite Symposium - Experts on the Spot

Sponsored by Novartis Pharma AG

Chairperson(s): P. Libby (Boston, US)

15:45 **Welcome and introduction - Atherosclerosis, cardiovascular risk factors and secondary prevention: are we making progress?** 4047

– P. Libby (Boston, US)

15:47 **Audience Q&A - Atherosclerosis, cardiovascular risk factors and secondary prevention: are we making progress?** 4048

– W. Koenig (Munich, DE), P.M. Ridker (Boston, US), T.F. Luscher (Zurich, CH), P. Libby (Boston, US)

16:13 **Close - Atherosclerosis, cardiovascular risk factors and secondary prevention: are we making progress?** 4049

– P. Libby (Boston, US)

Please refer to the Satellite Symposium scheduled on Monday 28 August, 12:45–13:45 in Bucharest - Village 8.

15:45–16:15 | Picasso - The Hub

PSCK9 INHIBITION: A NEW HORIZON IN LDL-C MANAGEMENT Satellite Symposium - Experts on the Spot

Sponsored by Sanofi and Regeneron

Chairperson(s): C.P. Cannon (Boston, US)

15:45 **Introduction - PSCK9 inhibition: a new horizon in LDL-C management.** 4050

– C.P. Cannon (Boston, US)

15:50 **Identifying appropriate patients to treat: clinical cases and evidence discussion.** 4051

– A. Catapano (Milan, IT), J. Robinson (Iowa City, US)

16:06 **Panel discussion - PSCK9 inhibition: a new horizon in LDL-C management.** 4052

– C.P. Cannon (Boston, US), A. Catapano (Milan, IT), J. Robinson (Iowa City, US)

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 18:30–20:00 in Bucharest - Village 8.

16:00–16:20 | Spotlight Stage

Today on ESC TV

ESC Clinical Practice Guidelines

MEET THE GUIDELINES TASK FORCE – FOCUSED UPDATE ON DUAL ANTIPLATELET THERAPY Special Session

Chairperson(s): P.G. Steg (Paris, FR); M. Valgimigli (Bern, CH)

16:00 **Focused update on dual antiplatelet therapy.** 4053

– M. Valgimigli (Bern, CH)

16:10 **Panel discussion: focused update on dual antiplatelet therapy.** 4054

– A. Kastrati (Munich, DE), P.H. Kolh (Liège, BE), L. Mauri (Boston, US), G.M. Montalescot (Paris, FR), M. Petricevic (Zagreb, HR), S. Windecker (Bern, CH), J.L. Zamorano Gomez (Madrid, ES)

16:05–16:25 | Dali - The Hub

Today on ESC TV

MEET THE TRIALISTS – IMPACT-AF Meet the Trialists

Chairperson: P. Kirchhof (Birmingham, UK)

16:05 **An international multicenter clustered randomized trial to IMProve treatment with oral AntiCoagulanTs in Atrial Fibrillation.** 4055

– C.B. Granger (Durham, US)

16:30–18:00 | Barcelona - Main Auditorium

ESC Clinical Practice Guidelines

ESC GUIDELINES 2017 – DIAGNOSIS AND TREATMENT OF PERIPHERAL ARTERIAL DISEASES		Main Session
Chairperson(s): V. Aboyans (Limoges, FR); J.B. Ricco (Poitiers, FR)		
16:30	Diagnosis and treatment of peripheral arterial diseases - Introduction. – V. Aboyans (Limoges, FR)	4056
16:35	General prevention and antithrombotic therapies. – J.-P. Collet (Paris, FR), L. Mazzolai (Lausanne, CH)	4057
16:50	Carotid and vertebral arteries. – J.B. Ricco (Poitiers, FR)	4058
17:05	Mesenteric and renal arteries. – M. Björck (Uppsala, SE), C. Vlachopoulos (Athens, GR)	4059
17:20	Upper and lower extremities arteries. – M. Brodmann (Graz, AT), T. Cohnert (Graz, AT)	4060
17:40	Cardiac diseases in PADs. – M. De Carlo (Pisa, IT), M. Tendera (Katowice, PL)	4061
17:55	Diagnosis and treatment of peripheral arterial diseases - Closing remarks. – I. Desormais (Limoges, FR)	4062

16:30–18:00 | Spotlight Stage



IMAGING VERSUS FUNCTIONAL GUIDED PCI		Live in the box
Live procedure recorded from the Cardiovascular Center Onze-Lieve-Vrouw Aalst		
Chairperson(s): I.-K. Jang (Boston, US); H.M. Nef (Giessen, DE); G. Stone (New York, US)		
16:30	Imaging guided PCI - Introduction. – H.M. Nef (Giessen, DE)	4063
16:35	IVUS/OCT for PCI guidance. – G. Guagliumi (Bergamo, IT)	4064
16:50	FFR/iFR for PCI guidance. – J. Escaned (Madrid, ES)	4065
17:05	Imaging guided PCI - Live in the box. – B. De Bruyne (Aalst, BE)	4066
17:45	Imaging guided PCI - Discussion.	4067
17:55	Imaging guided PCI - Conclusion. – I.-K. Jang (Boston, US)	4068

16:30–18:00 | Dali - The Hub



NSTE-ACS		Guidelines in Daily Practice
A session with the Belgian Society of Cardiology		
Chairperson(s): M.J. Claeys (Edegem, BE); C.E. Mueller (Basel, CH)		
16:30	Top ten message from the NSTE-ACS guidelines. – P.K. Coussement (Brugge, BE)	4069
16:40	NSTEMI in a hospitalised stroke patient. – S. Gevaert (Ghent, BE)	4070
16:50	Interpretation of guideline recommendations regarding the specific case. – S.M. Pourbaix (Liège, BE)	4071
17:05	Guideline implementation: challenges and opportunities. – C. Beauloye (Brussels, BE)	4072
17:20	New evidence that emerged since the guidelines were published. – P.R. Sinnaeve (Leuven, BE)	4073
17:40	Panel discussion: NSTE-ACS in Belgium. – M.J. Claeys (Edegem, BE), S. Gevaert (Ghent, BE), S.M. Pourbaix (Liège, BE), C.E. Mueller (Basel, CH)	4074

16:30–18:00 | Gaudi - The Hub

JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY'S YEAR IN CARDIOLOGY: FROM INTERVENTION TO PREVENTION Symposium

Chairperson(s): J.J. Bax (Leiden, NL); V. Fuster (New York, US)

- | | | |
|-------|---|------|
| 16:30 | Journal of the American College of Cardiology's Year in Cardiology: from intervention to prevention - Introduction. | 4075 |
| | – V. Fuster (New York, US) | |
| 16:42 | Journal of the American College of Cardiology's Year in heart failure: assessment & intervention. | 4076 |
| | – C. O'Connor (Durham, US) | |
| 16:55 | Journal of the American College of Cardiology's Year in stable coronary disease: assessment & intervention. | 4077 |
| | – G.D. Dangas (New York, US) | |
| 17:08 | Journal of the American College of Cardiology's Year in valvular heart disease: assessment & intervention. | 4078 |
| | – J. Rodes-Cabau (Quebec, CA) | |
| 17:21 | Journal of the American College of Cardiology's Year in atrial fibrillation: assessment & intervention. | 4079 |
| | – D.J. Wilber (Maywood, US) | |
| 17:34 | Journal of the American College of Cardiology's Year in Cardiology - CVD: the scientific basis of health promotion. | 4080 |
| | – V. Fuster (New York, US) | |
| 17:47 | Panel discussion: Journal of the American College of Cardiology's Year in Cardiology: from intervention to prevention. | 4081 |

16:30–18:00 | Goya - The Hub

 **Vote & Ask a Question**

TEST YOUR CLINICAL KNOWLEDGE WITH THE EUROPEAN EXAM IN GENERAL CARDIOLOGY Symposium

Chairperson(s): K.F. Fox (London, UK); J.A. Hall (Middlesbrough, UK)

- | | | |
|-------|--|------|
| 16:30 | Test your clinical skills through the European Exam in General Cardiology - Introduction. | 4082 |
| | – J.A. Hall (Middlesbrough, UK) | |
| 16:42 | General cardiology. | 4083 |
| | – A. Sionis (Barcelona, ES) | |
| 16:55 | Adult congenital heart disease and non-invasive investigation. | 4084 |
| | – R.B.A. van den Brink (Amsterdam, NL) | |
| 17:08 | Coronary artery disease. | 4085 |
| | – C.J. Plummer (Newcastle-upon-Tyne, UK) | |
| 17:21 | Arrhythmias. | 4086 |
| | – H. Burri (Geneva, CH) | |
| 17:34 | Valvular heart disease. | 4087 |
| | – A.N. Borg (Balzan, MT) | |
| 17:47 | Test your clinical skills through the European Exam in General Cardiology - Conclusion. | 4088 |
| | – J.A. Hall (Middlesbrough, UK) | |

16:30–18:00 | Miro - The Hub

HORIZON 2020 AND BEYOND – EU FUNDING OPPORTUNITIES FOR CARDIOVASCULAR RESEARCH Symposium

Joint with the European Commission

Chairperson(s): G. Owsianik (Brussels, BE); A.R. Pries (Berlin, DE)

- | | | |
|-------|---|------|
| 16:30 | How to make the best of EU funding opportunities: the EU Commission's view. | 4089 |
| | – G. Owsianik (Brussels, BE) | |
| 16:48 | How to make the best of EU funding opportunities: the view of scientists and the BioMed Alliance. | 4090 |
| | – C. O'Morain (Dublin, IE) | |
| 17:06 | Achieving the full-potential for CVD research in Europe: towards a European Council for Health Research. | 4091 |
| | – K.R. Sipido (Leuven, BE) | |
| 17:24 | Focused EU-funding for cardiovascular research: the ERA-CVD project. | 4092 |
| | – C. Pfenninger (Bonn, DE) | |
| 17:42 | Promises and challenges of ehealth: the EU action plan. | 4093 |
| | – M.R. Cowie (London, UK) | |

16:30–18:00 | Picasso - The Hub

CMR TISSUE CHARACTERISATION IN MYOCARDIAL DISEASE

Rapid Fire Abstract

Chairperson(s): S. Prasad (London, UK); F. Fedele (Rome, IT)

- 16:30 **MRI prospective survey on heart and liver iron and cardiac function in thalassemia major patients treated with Deferasirox versus Deferiprone and Desferrioxamine in monotherapy.** 4094
 – A. Meloni, L. Pistoia, S. Renne, G. Restaino, A. Vallone, A. Olivi, A. Barone, M. Allo', D. Maddaloni, C. De Bari, V. Positano, A. Pepe (Pisa, Lamezia Terme, Campobasso, Catania, Parma, Crotone, Fabriano and Arezzo, IT)
- 16:39 **Longitudinal prospective CMR study in pediatric thalassemia major patients.** 4095
 – A. Pepe, A. Meloni, M. Casale, L. Pistoia, E. Grassedonio, P. Preziosi, A. Riva, V. Positano, S. Macchi, A. Ciancio, M. Mangione, A. Filosa (Pisa, Naples, Palermo, Rome, Taranto, Ravenna and Matera, IT)
- 16:48 **Cardiac manifestation in wilson disease. The CARMA Wilson study. A comprehensive clinical and cardiac imaging trial.** 4096
 – S. Quick, U. Reuner, M. Weidauer, C. Hempel, N. Waessnig, C. Mues, K. Sveric, F. Heidrich, H. Reichmann, R. Strasser, U. Speiser (Dresden, DE)
- 16:57 **Congenital hypertrophic cardiomyopathy with genetic mutations is highly associated with left ventricular myocardial fibrosis and larger right ventricle (TW-HCM study).** 4097
 – C.-Y. Chen, M.-Y. Su, L.-Y. Lin, C.-T. Tsai, Y.-C. Wang, Y.-H. Lin, J.-K. Lee, C.-K. Wu, J.-M. Juang, J.-J. Huang, J.-L. Lin (Taipei, TW)
- 17:06 **Long term prognostic value of Cardiac Magnetic Resonance parameters in left ventricular non-compaction.** 4098
 – F. Macaione, A. Meloni, V. Positano, A. Barison, L. Pistoia, G. Aquaro, S. Novo, A. Pepe (Palermo, Pisa and Genoa, IT)
- 17:15 **Cardiovascular magnetic resonance imaging in cardiac device carriers: assessment of right-ventricular function and scar.** 4099
 – S. Loebe, S. Hilbert, A. Weber, C. Rogge, S. Oebel, R. Spampinato, S. Richter, M. Doering, P. Sommer, G. Hindricks, I. Paetsch, C. Jahnke (Leipzig, DE)
- 17:24 **Selective TRASSI T1 mapping for improved endocardial and right ventricular diagnostics.** 4100
 – D. Gensler, T. Salinger, K. Lorenz, G. Ertl, P.M. Jakob, P. Nordbeck (Würzburg, DE)
- 17:33 **Noninvasive 3-tesla cardiovascular magnetic resonance imaging assessment of endothelial permeability in patients with prediabetes and diabetes mellitus using an albumin-binding probe.** 4101
 – L.C. Engel, U.L. Landmesser, K. Gigengack, T. Wurster, G. Girke, M. Jaguszewski, C. Skurk, D.M. Leistner, A. Lauten, A. Schuster, B. Hamm, R.M. Botnar, B. Bigalke, M. Makowski (Berlin and Göttingen, DE; London, UK)
- 17:42 **Relation between serum values of angiotensin-2 and vascular endothelial growth factor with the degree of cardiomyopathy and skeletal myopathy in patients with muscular dystrophy.** 4102
 – S. Kaese, A. Lukasz, M. Bietenbeck, A. Florian, G. Frommeyer, N. Boegeholz, P. Kuempers, L. Eckardt, A. Yilmaz (Münster, DE)
- 17:51 **Validation of cardiac magnetic resonance T1 mapping in cardiac amyloidosis.** 4103
 – F. Duca, C. Zotter-Tufaro, A.A. Kammerlander, A. Panzenboeck, S. Aschauer, B. Boerries, H. Agis, R. Kain, D. Bonderman, J. Mascherbauer (Vienna, AT)

16:30–18:00 | Agora 1 - Agora

HOT TOPICS IN VALVULAR DISEASE

Rapid Fire Abstract

Chairperson(s): A.M. Alimam (Medina Menawara, SA); R. Rosenhek (Vienna, AT)

- 16:30 **The usefulness of cardiac computed tomography in the diagnosis of infective endocarditis and its perivalvular complications.** 4104
– K. Zatorska, I. Michalowska, E. Abramczuk, D. Zakrzewski, M. Kusmierczyk, T. Hryniewiecki (Warsaw, PL)
- 16:39 **Magnetic resonance derived quantification of organic mitral regurgitation provides superior prognostic information to doppler echocardiography based integrative approach.** 4105
– M. Penicka, J. Vecera, D.C. Mirica, M. Kotrc, R. Kockova, G. Van Camp (Aalst, BE; Prague, CZ)
- 16:48 **Outcomes penalty linked to female gender in severe primary mitral regurgitation due to flail leaflet.** 4106
– J. Pradier, A. Theron, N. Resseguier, F. Grigioni, C. Tribouilloy, G. Habib, J.-L. Vanoverschelde, F. Bursi, M. Enriquez-Sarano, J.F. Avierinos (Marseille and Amiens, FR; Bologna, IT; Brussels, BE; Rochester, US)
- 16:57 **Results of Transcatheter Mitral Valve Implantation in Patients with Bioprosthesis Or Annuloplasty Failure Or Mitral Annulus Calcification.** 4107
– M. Urena, D. Himbert, E. Brochet, M. Lecomte, J.L. Carrasco, W. Ghodbane, S. Alkhoder, R. Raffoul, C. Cimadevilla, J. Abtan, D. Messika-Zeitoun, B. Lung, P. Nataf, A. Vahanian (Paris, FR)
- 17:06 **Triple valve surgery: is mitral valve repair better than replacement?** 4108
– C. Branco, F. Soares, G.F. Coutinho, M.J. Antunes (Coimbra, PT)
- 17:15 **Transcatheter treatment of severe tricuspid regurgitation with the edge-to-edge MitraClip technique.** 4109
– R. Schueler, M. Kowalski, J. Hausleiter, J. Schofer, V. Rudolph, M. Taramasso, F. Maisano, N. Fam, G. Bianchi, F. Bedogni, O. Alfieri, A. Latib, A. Colombo, C. Hammerstingl, G. Nickenig (Bonn, Bad Rothenfelde, Munich, Hamburg and Cologne, DE; Zurich, CH; Toronto, CA; San Donato Milanese and Milan, IT)
- 17:24 **Thromboembolic and bleeding risk of patients with left-sided mechanical heart prostheses: the FCSA-START-Valvole Study.** 4110
– D. Poli, G. Palareti, V. Pengo, E. Antonucci, L. Migliaccio, E. Grifoni, N. Maggini, M. Moia, S. Testa, R. De Caterina (Florence, Bologna, Padua, Milan, Cremona and Chieti, IT)
- 17:33 **Outcomes of paravalvular leak after aortic and mitral valve surgery.** 4111
– S. Shah, A. Alashi, G. Pettersson, L. Rodriguez, M. Gillinov, R.A. Grimm, J. Navia, S.R. Kapadia, L.G. Svensson, B.P. Griffin, M.Y. Desai (Cleveland, US)
- 17:42 **Long-term follow-up of patients with rheumatic heart disease: A 41-year prospective and retrospective study between 1975 and 2016.** 4112
– P.H.D. Dezso Gelleri, P.H.D. Laszlo Lenard, D.R. Gyula Feke (Kalocsa and Pécs, HU)
- 17:51 **Long-term evaluation of the Ross procedure: clinical and echocardiographic follow-up at 20 years.** 4113
– S. Guerreiro, R. Ribeiros, J. Queiroz E Melo, M. Canada, E. Horta, C. Reis, M. Castro, J. Mesquita, J. Carmo, G. Rodrigues, P. Freitas, N. Vale, J.P. Neves, M. Mendes (Lisbon, PT)



16:30–18:00 | Agora 2 - Agora

INNOVATIONS IN HYPERTENSION MANAGEMENT AND DEVICES

Rapid Fire Abstract

- Chairperson(s): A.M. Heagerty (Manchester, UK); M. Taborsky (Olomouc, CZ)
- 16:30 **Adrenal venous sampling in primary aldosteronism: cosyntropin infusion increases the success rate of the procedure but can mask the lateralization of aldosterone secretion.** 4114
– M. Solar, A. Krajina, M. Ballon, J. Raupach, M. Brozova, J. Ceral (Hradec Králové, CZ)
- 16:39 **CHADS2-VA2SC score predicts incident atrial fibrillation in hypertension: the Campania Salute Network.** 4115
– A. Rapacciuolo, M.A. Losi, R. Izzo, M. Galderisi, C. Mancusi, N. De Luca, B. Trimarco, G. De Simone (Naples, IT)
- 16:48 **Reduction of tissue sodium content by SGLT-2-inhibition with dapagliflozin.** 4116
– M.V. Karg, C. Ott, P. Linz, A. Jumar, D. Kannenkeril, J. Titze, M. Hammon, M. Uder, R.E. Schmieder (Erlangen, DE; Nashville, US)
- 16:57 **A novel self-management intervention for adjustment of postnatal antihypertensive treatment.** 4117
– A. Cairns, S. Mort, K.L. Tucker, P. Leeson, L. Mackillop, C. Crawford, N. Baker, J. Tebbutt, R.J. McManus (Oxford, Reading and High Wycombe, UK)
- 17:06 **A meta-analysis on standard and intensive blood pressure control in patients with chronic kidney disease.** 4118
– L.A. Shiu, N.N. Diansuy, R.M. Ramirez-Ragasa, N.S. Pestano, F.E. Punzalan, B. Tumanan-Mendoza (Manila, PH)
- 17:15 **Early morphologic alterations in renal artery wall and renal nerves in response to catheter-based renal denervation procedure in sheep: difference between single-point and multiple-point ablation.** 4119
– M. Taborsky, D. Richter, Z. Tonar, L. Kubikova, A. Herman, J. Peregrin, L. Cervenkova, Z. Huskova, L. Kopkan (Olomouc, Plzen and Prague, CZ)
- 17:24 **Distal renal denervation in segmental branches of renal artery versus conventional main trunk therapy: 12 months study in patients with resistant hypertension.** 4120
– S. Pekarskiy, A. Baev, V. Mordovin, T. Ripp, A. Falkovskaya, V. Lichikaki, I. Zubanova, M. Kuzmichkina, G. Semke, S. Popov (Tomsk, RU)
- 17:33 **Renal function after distal renal denervation and conventional intervention in diabetic patients with resistant hypertension.** 4121
– A. Falkovskaya, V. Mordovin, S. Pekarskiy, A. Baev, G. Semke, T. Ripp, I. Zyubanova, V. Lichikaky, A. Gusakova (Tomsk, RU)
- 17:42 **Renal arterial stenosis: long term clinical outcomes of percutaneous transluminal angioplasty and stent implantation for hypertension and renal function.** 4122
– S. Castellani, S. Selvaggio, G. Castellini, L. Needleman, B. Brkljacic, A. Ungar, C. Cirami, G. Baldereschi, M. Acquafrasca, P.A. Modesti, P. Pavlica, M. Bertolotto, B.K. Cruz, M. Salvadori, C. Di Mario (Florence, Bologna and Trieste, IT; Philadelphia and Anchorage, US; Zagreb, HR)
- 17:51 **Long term effect of transvenous carotid body ablation in the treatment of patients with resistant hypertension.** 4123
– P. Neuzil, V. Reddy, F. Malek, P. Kmonicek, H. Sievert, T. Zeller, E. Noory, M. Böhm, F. Mahfoud, S. Worthley, J. Montarello, C. Schultz, S. Shetty, D. Hering, M. Schlaich (Prague, CZ; New York, US; Frankfurt, Bad Krozingen and Homburg, DE; Adelaide and Perth, AU)

16:30–18:00 | Dublin - Village 1

ATHEROGENESIS – NEW MECHANISMS

Advances in Science

- Chairperson(s): I. Cicha (Erlangen, DE); D. Sedding (Hannover, DE)
- 16:30 **State of the Art: new mechanisms in atherogenesis.** 4124
– G.K. Hansson (Stockholm, SE)
- 16:48 **Massive immune system-mediated acceleration of atherosclerosis caused by genetic deficiency of long noncoding RNA MALAT1 in ApoE knockout mice.** 4125
– W. Poller, M. Gast, B. Rauch, S. Nakagawa, A. Stroux, U. Rauch, C. Skurk, T. Zeller, U. Landmesser (Berlin, Greifswald and Hamburg, DE; Sapporo, JP)
- 17:06 **Transplantation of periaortic adipose tissue inhibits atherosclerosis in apoE^{-/-} mice by exerting TGF-beta1-mediated anti-inflammatory response in transplanted graft.** 4126
– H. Yamada, K. Terada, M. Kikai, K. Yamamoto, S. Motoyama, N. Wada, M. Saburi, N. Wakana, S. Matoba (Kyoto, JP)
- 17:24 **The role of the purinergic receptor p2x7 in the pathogenesis of atherosclerosis.** 4127
– J. Merz, A. Heidenreich, P. Stachon, C. Bode, A. Zirlik (Freiburg, DE)
- 17:42 **Modulating the immune system to treat atherosclerosis.** 4128
– Z. Mallat (Cambridge, UK)

16:30–18:00 | Fira - Village 1

CONGENITAL HEART DISEASE – LESSONS FROM DEVELOPMENT FOR GENETIC COUNSELLING Symposium

Chairperson(s): D.J. Henderson (Newcastle-upon-Tyne, UK); G. Thiene (Padua, IT)


- 16:30 **Cell lineages in cardiac development: a bridge between morphogenesis and clinical phenotypes.** 4129
– R. Kelly (Marseille, FR)
- 16:52 **Transcriptional control of cardiac development - The example of Fallot patients.** 4130
– A. Baban (Rome, IT)
- 17:15 **Atrioventricular septal defects: mechanisms and clinical implications.** 4131
– A.C. Gittenberger-De Groot (Leiden, NL)
- 17:37 **Genetics of congenital heart disease: from animal models to patients.** 4132
– D. Brook (Nottingham, UK)

16:30–18:00 | Astana - Village 2

HYPERTENSION IN 90 MINUTES

Chairperson(s): M. Dorobantu (Bucharest, RO); A.O. Nedoshivin (St. Petersburg, RU)

- 16:30 **How to diagnose hypertension: tips, tricks and pitfalls.** 4133
– G. Parati (Milan, IT)
- 16:52 **Treating drug resistant hypertension.** 4134
– B. Williams (London, UK)
- 17:15 **Too high one day, too low the other: dealing with fluctuating blood pressure.** 4135
– D.L. Clement (Ghent, BE)
- 17:37 **Exercise-induced hypertension: relevance and treatment.** 4136
– S. Brouwers (Brussels, BE)

 Ask a Question

Expert Advice

16:30–18:00 | Pristina - Village 2

REVISITING BLOOD PRESSURE TARGETS IN PATIENTS WITH COMORBIDITIES

Advances in Science

Chairperson(s): L.M. Ruilope (Madrid, ES); R.G. Xuereb (Ta' Xbiex, MT)

- 16:30 **State of the Art: stratifying blood pressure targets.** 4137
– P. Verdecchia (Perugia, IT)
- 16:48 **Target blood pressure in hypertensive patients with previous stroke: a Korean National Health Insurance Service health examinee cohort study.** 4138
– C.J. Lee, J. Hwang, J. Oh, I.C. Kim, S.H. Lee, S.M. Kang, D. Choi, K.I.M. Hc, S. Park (Seoul and Gyeongbuk, KR)
- 17:06 **Optimal blood pressure for patients with coronary artery disease.** 4139
– C.-C. Huang, H.-B. Leu, W.-H. Yin, W.-K. Tseng, Y.-W. Wu, T.-H. Lin, H.-I. Yeh, K.-C. Chang, J.-H. Wang, C.-C. Wu, J.-W. Chen (Taipei, Kaohsiung, New Taipei City, Taichung and Hualien, TW)
- 17:24 **A map of SPRINT's data free zone.** 4140
– L.J. Laffin, S.A. Besser, F.J. Alenghat (Chicago, US)
- 17:42 **Optimal blood pressure targets in chronic kidney disease.** 4141
– M. Burnier (Lausanne, CH)

16:30–18:00 | Beirut - Village 3

REMOTE PATIENT MONITORING AND TELEMEDICINE

Advances in Science

Chairperson(s): J.M. Hill (London, UK); P.E. Dilaveris (Athens, GR)

- 16:30 **State of the Art: remote patient monitoring and telemedicine.** 4142
– F. Koehler (Berlin, DE)
- 16:48 **Telemedicine increases access, accuracy & cost-effectiveness of population based AMI care: results of the Latin America telemedicine infarct network (LATIN).** 4143
– S. Mehta, A. Ferre, R. Botelho, F. Fernandes, R. Vega, F. Bojanini, J. Corral, D. Rodriguez, R. Cardoso, M. Perin, C. Campos (Miami, US)
- 17:06 **A telemonitoring program for primary and secondary prevention of cardiovascular disease.** 4144
– L. Lupi, F. Glisenti, A. Castiello, E. Visco, I. Papa, E. Dinatolo, G.M. Arabia, S. Nodari (Brescia, IT)
- 17:24 **The impact of early warning information system on reducing in-hospital cardiac arrest.** 4145
– S.H. Kuo, W.C. Huang, W.C. Juan, K.C. Lin, W.T. Hung, C.H. Chiang, S.C. Lin, C.C. Cheng, P.H. Lin, K.Y. Fong, D.S. Hou, S.R. Wann, G.Y. Mar, Y.S. Chen, C.P. Liu (Kaohsiung, TW; Bristol, UK)
- 17:42 **Telemonitoring and screening for arrhythmias: future perspectives.** 4146
– S.B. Freedman (Sydney, AU)

16:30–18:00 | Riga - Village 3



SHAPING THE FUTURE BY NOVEL PET-BASED DIAGNOSTIC APPROACHES

Advances in Science

Chairperson(s): D. Neglia (Pisa, IT); M.J. Zellweger (Basel, CH)

- 16:30 **State of the Art: cardiac PET.** 4147
– J.M. Knuuti (Turku, FI)
- 16:48 **18F-Sodium fluoride is a novel independent predictor of abdominal aortic aneurysm growth and clinical outcome.** 4148
– R.O. Forsythe, M.R. Dweck, A.T. Vesey, O.M.B. McBride, S.I.K. Semple, A.S.V. Shah, E.J.R. Van Beek, C.D. Gray, A. Fletcher, C. Lucatelli, A. Marin, N. Mitchard, R.T.A. Chalmers, J.M.J. Robson, D.E. Newby (Edinburgh, UK)
- 17:06 **Coronary CT angiography with selective PET perfusion imaging guides referral for invasive coronary angiography and revascularization in coronary artery disease.** 4149
– I. Stenstrom, T. Maaniitty, V. Uusitalo, H. Ukkonen, S. Kajander, M. Maki, J.J. Bax, J. Knuuti, A. Saraste (Turku, FI; Leiden, NL)
- 17:24 **Incremental prognostic value of positron emission tomography derived hyperemic myocardial blood flow.** 4150
– M.H. Al Mallah, A. Ahmed, A. Suleiman, I. Suleiman, H. Fielding, M. Alali Alfaris, D. Ahmed, A. Jizeeri (Riyadh, SA)
- 17:42 **What's next in molecular imaging of atherosclerosis?** 4151
– A. Tawakol (Boston, US)

16:30–18:00 | Chisinau - Village 4



THE PRIMARY PREVENTION SUMMIT

Symposium

Chairperson(s): J. Kuvin (Lebanon, US); A. Rosengren (Gothenburg, SE)

- 16:30 **SPRINT and HOPE3: implications for the treatment of hypertension.** 4152
– S. Yusuf (Hamilton, CA)
- 16:48 **Lp(a): should we go after it? Should it modify our lipid targets?** 4153
– J. Chapman (Paris, FR)
- 17:06 **How much exercise is needed to prevent heart disease?** 4154
– C. Lavie (New Orleans, US)
- 17:24 **“Statins for life”? The effect of statins on survival in primary prevention.** 4155
– K. Bibbins-Domingo (San Francisco, US)
- 17:42 **“Plaque but no obstructive coronary disease” - Primary or secondary prevention?** 4156
– S. Halvorsen (Oslo, NO)

16:30–18:00 | Vilnius - Village 4

INFLAMMATION AND CARDIOVASCULAR DISEASE: THE EMERGING ROLE OF “OMICS”

Advances in Science

Chairperson(s): P. Greenland (Chicago, US); R. Nagai (Tochigi, JP)

- 16:30 **State of the Art: “omics” in inflammation and cardiovascular disease.** 4157
– D. Chasman (Boston, US)
- 16:48 **The association of physical activity with plasma lipoproteins and inflammation measured by NMR-metabolomics: evidence from the China Kadoorie Biobank study.** 4158
– Y. Pang, D.A. Bennett, M.V. Holmes, C. Kartsonaki, H. Du, I.Y. Millwood, Y. Guo, Z. Bian, J. Chen, L. Li, Z. Chen (Oxford, UK; Beijing, CN)
- 17:06 **The soluble IL6 receptor as a predictor for early cardiovascular events.** 4159
– L. Ziegler, A. Gajulapuri, P. Frumento, H. Wallen, U. De Faire, B. Gigante (Stockholm, SE)
- 17:24 **Identification of STXP2 as a novel susceptibility locus for myocardial infarction in Japanese individuals by an exome-wide association study.** 4160
– K. Kato, H. Horibe, M. Oguri, T. Fujimaki, J. Sakuma, I. Takeuchi, T. Murohara, Y. Yasukochi, Y. Yamada (Tsu, Tajimi, Kasugai, Inabe, Tsukuba and Nagoya, JP)
- 17:42 **Inflammatory processes in cardiovascular disease: a route to personalised medicine?** 4161
– P.M. Ridker (Boston, US)

16:30–18:00 | Skopje - Village 5

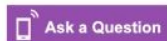
Today on ESC TV

FOUR DECADES OF ICD THERAPY – LESSONS AND DILEMMAS

Symposium

Chairperson(s): M. Borggrefe (Mannheim, DE); B. Merkely (Budapest, HU)

- 16:30 **ICD therapy for non ischaemic cardiomyopathy. DANISH results and my interpretation.** 4162
– L. Di Biase (New York, US)
- 16:52 **ICD in ischaemic cardiomyopathy. Is it time for reassessment?** 4163
– N. Dagues (Leipzig, DE)
- 17:15 **New tools and indices for sudden cardiac death risk stratification.** 4164
– I. Goldenberg (Ramat Gan, IL)
- 17:37 **Quality of life of ICD patients.** 4165
– B. Olshansky (Iowa City, US)



16:30–18:00 | Valetta - Village 5

ANTICOAGULATION FOR CardioVERSION OF ATRIAL FIBRILLATION: EXPLORING AREAS OF UNCERTAINTY

Symposium

Chairperson(s): A. Goette (Paderborn, DE); A.J. Camm (London, UK)

- 16:30 **Early cardioversion: is there strong evidence to support the concept?** 4166
– P. Kirchhof (Birmingham, UK)
- 16:52 **Practical considerations for cardioversion of atrial fibrillation.** 4167
– R. Cappato (Rozzano, IT)
- 17:15 **Dealing with left atrial appendage clot.** 4168
– F. Marin (Murcia, ES)
- 17:37 **Non-vitamin K oral anticoagulants for cardioversion: recent trials.** 4169
– M.D. Ezekowitz (Villanova, US)



16:30–18:00 | Bishkek - Village 6

**40 YEARS OF PERCUTANEOUS CORONARY INTERVENTIONS AND BEYOND
European Association of Percutaneous Cardiovascular Interventions (EAPCI)**

Chairperson(s): M. Haude (Neuss, DE); M.C. Morice (Massy, FR)

- 16:30 **PCI - The pioneers.** 4170
– B. Meier (Bern, CH)
- 16:52 **PCI - The cowboys.** 4171
– A. Colombo (Milan, IT)
- 17:15 **PCI - The coming of age.** 4172
– M.B. Leon (New York, US)
- 17:37 **PCI - The future.** 4173
– J. Mehilli (Munich, DE)



16:30–18:00 | Luxembourg - Village 6

NEW FRONTIERS OF TRANSCATHETER ATRIO-VENTRICULAR VALVE INTERVENTIONS

Advances in Science

Chairperson(s): C.M. Otto (Seattle, US); J. Schofer (Hamburg, DE)

- 16:30 **State of the Art: transcatheter solutions for mitral regurgitation complicating heart failure.** 4174
– A. Latib (Milan, IT)
- 16:48 **Five-year outcome after successful transcatheter mitral valve repair in surgical high-risk patients.** 4175
– E. Tigges, D.K. Kalbacher, C.T. Thomas, F.D. Deuschl, N.S. Schofer, D.R. Reichart, L.C. Conradi, J.S. Schirmer, U.S. Schaefer, H.R. Reichenspurner, S.B. Blankenberg, E.L. Lubos (Hamburg, DE)
- 17:06 **The EVEREST II REALISM continued access non-high risk study: mid- and long-term follow-up in surgical candidates.** 4176
– T. Feldman, S. Kar, D.S. Lim, R. Smalling, B. Whisenant, C. Rammohan, P. Fail, M. Rinaldi, J. Hermiller, H. Herrmann, R. Kipperman, J. Slater, E. Foster, N.J. Weissman, D. Glover (Evanston, Los Angeles, Charlottesville, Houston, Murray, Mountain View, Houma, Charlotte, Indianapolis, Philadelphia, Morristown, New York, San Francisco, Washington and Durham, US)
- 17:24 **Gender-related differences in patients undergoing transcatheter mitral valve interventions: 1-year results from the German TRAMI Registry.** 4177
– N. Werner, S. Baldus, W. Schillinger, O. Franzen, R. Bekerredjian, H. Sievert, J. Schofer, K.H. Kuck, H. Moellmann, C. Hehrlein, T. Ouarrak, J. Senges, R. Zahn (Ludwigshafen, Cologne, Göttingen, Heidelberg, Frankfurt, Hamburg, Dortmund and Freiburg, DE; Zurich, CH)
- 17:42 **Complete transcatheter valvular solutions for secondary mitral regurgitation: are we there yet?** 4178
– J. Hausleiter (Munich, DE)

16:30–18:00 | Podgorica - Village 6

PULMONARY HYPERTENSION – AN UPDATE

Guidelines in Daily Practice

A session with the Ukrainian Society of Cardiology

Chairperson(s): N. Galie (Bologna, IT); Y. Sirenko (Kiev, UA)

- 16:30 **Top ten messages from the pulmonary hypertension guidelines.** 4179
– Y. Sirenko (Kiev, UA)
- 16:40 **Chronic thromboembolic pulmonary hypertension - Diagnostic opportunities and the efficacy of surgical treatment.** 4180
– L. Vasilyeva (Dnepropetrovsk, UA)
- 16:50 **Interpretation of guideline recommendations regarding the specific case.** 4181
– L. Kulik (Lviv, UA)
- 17:05 **Guideline implementation in pulmonary hypertension: challenges and opportunities.** 4182
– G. Radchenko (Kiev, UA)
- 17:20 **Pulmonary hypertension: new evidence that has emerged since the guidelines were published.** 4183
– Y. Sirenko (Kiev, UA)
- 17:40 **Panel discussion: how to approach pulmonary hypertension in clinical practice.** 4184
– N. Galie (Bologna, IT), L. Kulik (Lviv, UA), G. Radchenko (Kiev, UA), Y. Sirenko (Kiev, UA), L. Vasilyeva (Dnepropetrovsk, UA)



16:30–18:00 | Oslo - Village 7



DILEMMAS IN PERICARDIAL DISEASE

Meet the Experts case discussions

Chairperson(s): A. Brucato (Bergamo, IT); P.M.J. Verhorst (Enschede, NL)

16:30	Dilemmas in pericardial disease - Introduction to the session.	4185
	– P.M.J. Verhorst (Enschede, NL)	
16:35	Recurrent pericarditis.	4186
	– A.D. Ristic (Belgrade, RS)	
16:45	Recurrent pericarditis - Panel discussion and questions from the audience.	4187
	– A.M.G. Almeida (Lisbon, PT), A. Pantazis (London, UK), B. Maisch (Marburg, DE)	
17:00	Effusive-constrictive pericarditis.	4188
	– G. Lazaros (Athens, GR)	
17:10	Effusive-constrictive pericarditis - Panel discussion and questions from the audience.	4189
	– A.M.G. Almeida (Lisbon, PT), B. Maisch (Marburg, DE), A. Pantazis (London, UK)	
17:25	Constrictive pericarditis.	4190
	– M. Imazio (Turin, IT)	
17:35	Constrictive pericarditis - Panel discussion and questions from the audience.	4191
	– A.M.G. Almeida (Lisbon, PT), B. Maisch (Marburg, DE), A. Pantazis (London, UK)	
17:50	Dilemmas in pericardial disease - Take home message on the cases presented.	4192
	– A. Brucato (Bergamo, IT)	

16:30–18:00 | Rabat - Village 7

OPEN QUESTIONS IN PULMONARY VASCULAR DISEASES
Joint with the European Respiratory Society

Symposium

Chairperson(s): I.M. Lang (Vienna, AT); O. Sitbon (Le Kremlin-Bicêtre, FR)

16:30	Duration of anticoagulation after acute pulmonary embolism: current standards and is it time for a change?	4193
	– I. Kalomenidis (Athens, GR)	
16:52	Screening for chronic thromboembolic pulmonary hypertension after pulmonary embolism: for whom and how?	4194
	– M. Lankeit (Berlin, DE)	
17:15	Combining different treatment modalities in chronic thromboembolic pulmonary hypertension.	4195
	– M. Delcroix (Leuven, BE)	
17:37	Pulmonary vein stenosis after pulmonary vein isolation for atrial fibrillation: diagnosis and treatment.	4196
	– V.P. Vassilikos (Thessaloniki, GR)	

16:30–18:00 | Bucharest - Village 8



DISSECTION, EMBOLISM, AND OTHER ENTITIES: ACUTE CORONARY SYNDROMES OF UNUSUAL ETIOLOGY

Case-based Symposium

Chairperson(s): D. Adlam (Loughborough, UK); R. Chazal (Fort Myers, US)

16:30	Working up a patient with acute chest pain.	4197
	– S. Achenbach (Erlangen, DE)	
17:00	Can the coronaries be normal?	4198
	– C. Gavina (Matosinhos, PT)	
17:30	ACS of unusual etiology: my experience.	4199
	– C. Grines (Manhasset, US)	

16:30–18:00 | Tripoli - Village 8



MYOCARDIAL REVASCULARISATION – AN UPDATE
A session with the Tunisian Society of Cardiology

Guidelines in Daily Practice

Chairperson(s): A. Mahdhaoui (Sousse, TN); F. Weidinger (Vienna, AT)

16:30	Top ten messages from the myocardial revascularisation guidelines.	4200
	– F. Addad (Ariana, TN)	
16:40	Challenging case of revascularisation in the setting of distal left main disease.	4201
	– N. Hajlaoui (Tunis, TN)	
16:50	Interpretation of guideline recommendations.	4202
	– A. Boughzala (Tunis, TN)	
17:05	Guideline implementation: challenges and opportunities.	4203
	– M. Mourali (Tunis, TN)	
17:20	New evidence that has emerged since the guidelines were published.	4204
	– H. Gamra (Monastir, TN)	
17:40	Panel discussion: myocardial revascularisation - Problems and opportunities.	4205
	– F. Addad (Ariana, TN), A. Mahdhaoui (Sousse, TN), M. Mourali (Tunis, TN), F. Weidinger (Vienna, AT)	

16:30–18:00 | Lisbon - Village 9

 Vote & Ask a Question

HEART FAILURE WITH MID-RANGE EJECTION FRACTION – WHAT DOES IT MEAN FOR CLINICAL PRACTICE? Guidelines in Daily Practice

Chairperson(s): C.S.P. Lam (Singapore, SG); C. Tschoepe (Berlin, DE)

- | | | |
|-------|--|------|
| 16:30 | A patient presenting with heart failure with mid-range ejection fraction.
– M. Cikes (Zagreb, HR) | 4206 |
| 16:45 | Heart failure with mid-range ejection fraction - What do the Guidelines say?
– A.A. Voors (Groningen, NL) | 4207 |
| 17:00 | Heart failure with mid-range ejection fraction. How to implement Guidelines – Panel discussion.
– P. Ponikowski (Wroclaw, PL), R.A. De Boer (Groningen, NL) | 4208 |
| 17:10 | Heart failure with mid-range ejection fraction - Conclusion and take home message.
– C.S.P. Lam (Singapore, SG) | 4209 |
| 17:15 | A heart failure patient improving to mid-range ejection fraction.
– A. Flammer (Zurich, CH) | 4210 |
| 17:30 | Improvement to heart failure with mid-range ejection fraction - What do the Guidelines say?
– C. Linde (Stockholm, SE) | 4211 |
| 17:45 | Improvement to heart failure with mid-range ejection fraction. How to implement Guidelines – Panel discussion.
– P. Ponikowski (Wroclaw, PL), R.A. De Boer (Groningen, NL) | 4212 |
| 17:55 | Improvement to heart failure with mid-range ejection fraction - Conclusion and take home message.
– C. Tschoepe (Berlin, DE) | 4213 |



16:30–18:00 | Warsaw - Village 9

THE FUTURE OF HEART FAILURE THERAPY
Heart Failure Association (ESC)

Symposium

Chairperson(s): F. Ruschitzka (Zurich, CH); P. Seferovic (Belgrade, RS)

- | | | |
|-------|---|------|
| 16:30 | Future treatment of chronic heart failure.
– S.D. Anker (Berlin, DE) | 4214 |
| 16:52 | Devices and multidisciplinary interventions in heart failure – New concepts.
– A. Mebazaa (Paris, FR) | 4215 |
| 17:15 | Treatment of acute heart failure – Where will the journey go?
– G.S. Filippatos (Athens, GR) | 4216 |
| 17:37 | Advanced heart failure – Future therapeutic approaches.
– M. Metra (Brescia, IT) | 4217 |

Late-Breaking Science Posters (see page 223) are on display from 08:30 to 18:00.
 From 15:35 to 16:25 Trialists Presenters will summarise their research and address questions from the Chairpersons and Audience.

14:00–18:00 | Best poster screen - Poster Area

BEST POSTERS 5

Best Posters

Discussant intervention 15:35–16:25

Best Posters are on display from 14:00 to 18:00 on the Best Posters plasma screen of the related topic. During the viewing time (15:35–16:25), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN PCI FOR CHRONIC TOTAL OCCLUSION

Discussant: Best Posters in PCI for chronic total occlusion. **P4218**
 – A.R. Galassi (Catania, IT), J.M. Hill (London, UK)

Transradial versus transfemoral approach for percutaneous intervention of coronary chronic total occlusions applying the hybrid algorithm: insights from RECHARGE registry. **P4219**

– E.J. Bakker, J. Maeremans, B. Faurie, A. Avran, S. Walsh, J. Dens, P. Agostoni (Nieuwegein, NL; Genk, BE; Grenoble and Marignane, FR; Belfast, UK)

Feasibility of contemporary percutaneous coronary intervention for chronic total occlusion in chronic kidney disease patients: sub-analysis of Japanese multicenter registry. **P4220**

– S. Matsuno, M. Yamane, T. Muramatsu, A. Okamura, Y. Kashima, M. Sakurada, M. Kijima, M. Tanabe, M. Mutoh, M. Habara (Tokyo, Saitama, Osaka, Hokkaido, Fukushima, Kyoto and Aichi, JP)

Successful PCI of chronic total occlusion of coronary arteries with drug eluting stents improves outcomes: a systematic review and meta-analysis. **P4221**

– S. Singh, I. Ismail, A.S. Dhillon, R. Arora (North Chicago, US)

Examination of chronic total occlusion cases who were switched to antegrade approach after failure of retrograde procedure from the Japanese Retrograde Summit Registry. **P4222**

– H. Katoh, M. Yamane, T. Muramatsu, A. Okamura, Y. Kashima, S. Matsuno, M. Sakurada, M. Kijima, M. Tanabe, M. Habara (Yokohama, Saitama, Tokyo, Osaka, Sapporo, Koriyama, Kyoto and Toyohashi, JP)

BEST POSTERS IN ECHO INFORMING TAVI

Discussant: Best Posters in echo informing TAVI. **P4223**
 – E. Vavouranakis (Anoixi, GR), R. Hahn (New York, US)

Mitral valve regurgitation in patients undergoing TAVI: impact on clinical outcome. **P4224**

– L. Fusini, M. Muratori, G. Tamborini, P. Gripari, S. Ghulam Ali, V. Mantegazza, F. Fabbicocchi, A.L. Bartorelli, M. Agrifoglio, F. Alamanni, M. Pepi (Milan, IT)

Echocardiographic signs of post-TAVI thrombosis and endocarditis. **P4225**

– M. Spartera, F. Ancona, M. Barletta, I. Rosa, S. Stella, C. Marini, A. Pavon, M. Montorfano, A. Latib, O. Alfieri, A. Colombo, E. Agricola (Milan, IT)

Impact of trans-catheter aortic valve implantation on left ventricular properties in patients with preserved or reduced ejection fraction: three-dimensional speckle tracking echocardiography study. **P4226**

– I. Kawamura, Y. Yoshizane, M. Kawasaki, R. Tanaka, M. Saeki, K. Ono, H. Matsuo, T. Noda, T. Suzuki, S. Minatoguchi (Gifu, JP)

Role of contractile reserve as a predictor of mortality in low-flow, low-gradient severe aortic stenosis patients following transcatheter aortic valve replacement. **P4227**

– K. Buchanan, M.C. Alraies, T. Rogers, A. Steinvil, A. Kajita, E. Koifman, L. Xu, R. Torguson, M. Lipinski, H. Garcia-Garcia, I. Ben-Dor, A. Pichard, L. Satler, R. Waksman, F. Asch (Washington, US)

BEST POSTERS IN COMORBIDITIES IN HEART FAILURE

Best Posters in comorbidities in heart failure. P4228
 – E. Straburzynska-Migaj (Poznan, PL), M. Komajda (Paris, FR)

Acute treatment of levosimendan attenuates chronic doxorubicin-induced cardiomyopathy in vivo: implication of the critical role of inotropic action. P4229
 – P. Efentakis, E.K. Iliodromitis, A. Varela, E. Chavdoula, F. Sigala, N. Kostomitsopoulos, D. Farmakis, A. Tasouli, A. Papapetropoulos, A. Klinakis, T. Suter, D.V. Cokkinos, I. Andreadou (Athens, GR; Bern, CH)

Empagliflozin reduces the doxorubicin-induced myocardial dysfunction. P4230
 – J. Sabatino, M. Yasuda, S. De Rosa, L. Tamme, C. Iaconetti, M. Albanese, G. Zacccone, C. Mignogna, I. Aquila, G. Donato, C. Indolfi (Catanzaro, IT)

Cardiorenhepatic syndrome reflects severity of decompensated heart failure and is related with worse prognosis. P4231
 – A. Soloveva, S. Villevalde, Z. Kobalava (Moscow, RU)

Iron deficiency predicted hospitalizations in elderly patients with symptoms of heart failure. P4232
 – M. Olofsson, K. Boman (Umeå, SE)

BEST POSTERS IN RISK ASSESSMENT – BIOMARKERS

Discussant: Best Posters in risk assessment - Biomarkers. P4233
 – M. Kavousi (Rotterdam, NL), S. Blankenberg (Hamburg, DE)

Comparison of prevalence and prognostic information of elevated high-sensitivity cardiac troponin T and I in patients without acute coronary syndrome. P4234
 – A. Arnadottir, K.R. Vestergaard, J. Pallisgaard, R. Steffensen, G. Soeletormos, J.P. Gotze, K.K. Iversen (Copenhagen and Hillerod, DK)

Coronary artery bypass graft occlusion: predictive role of procoagulant microparticles. P4235
 – M. Brambilla, P. Canzano, L. Lodi, L. Rossetti, C. Tedesco, L. Cavallotti, A. Parolari, F. Veglia, E. Tremoli, M. Camera (Milan, Novara and San Donato Milanese, IT)

Vasopressin, measured as copeptin, in elderly individuals with or without unrecognized myocardial infarction. A report from the ICELAND MI Cohort. P4236
 – M.I. Smaradottir, K. Andersen, V. Gudnason, P. Nasman, L. Ryden, L.G. Mellbin (Stockholm, SE; Reykjavik, IS)

N-terminal pro-somatostatin predicts vascular dementia but not alzheimers disease. P4237
 – H. Holm, K. Nagga, E.D. Nilsson, O. Melander, F. Ricci, O. Hansson, E. Bachus, M. Magnusson, A. Fedorowski (Malmö, SE; Chieti, IT)

BEST POSTERS IN STEM CELLS

Discussant: Best Posters in stem cells. P4238
 – M. Gyongyosi (Vienna, AT), R. Madonna (Chieti, IT)

Bradykinin inhibits High Glucose-Induced Senescence of c-kit Positive Cardiac Stem Cells via B2R/PI3K/AKT/mTOR/P53 signal pathway. P4239
 – C. Fu, Y.Y.Y. Yao, L.B. Li, S.Y.N. Sun, T.S.X. Tang (Wuhu and Nanjing, CN)

Endocavitary injection of bone-marrow-derived CD133+ cells in ischemic REfractory CARDIOmyopathy (RECARDIO trial). P4240
 – G. Pompilio, B. Bassetti, V. Catto, A. Bestetti, S. Righetti, F. Celeste, M. Parma, P. Agostoni, D.E. Atsma, P. Scacciatella, F. Achilli, G. Gaipa, C. Carbucicchio (Milan, Monza and Turin, IT; Leiden, NL)

Activation of the calcineurin-NFAT pathway in hypertrophic cardiomyopathy due to abnormal calcium homeostasis contributes to progression of cardiomyocytes hypertrophy: Insights from human iPSC model. P4241
 – X. Ran, Y.K. Lee, H.F. Tse (Hong Kong, HK)

Transcoronary cardiac progenitors in patients with functional single ventricle: two-year follow-up of the phase 1/2 clinical trials. P4242
 – T. Sano, S. Ishigami, D. Ousaka, K. Hirai, T. Goto, S. Kasahara, S. Ohtsuki, S. Sano, H. Oh (Okayama, JP)

BEST POSTERS IN ACUTE PULMONARY EMBOLISM

- Discussant: Best Posters in acute pulmonary embolism.** **P4243**
 – M. Lankeit (Berlin, DE), S. Rosenkranz (Cologne, DE)
- Incidence of pulmonary embolism, associated mortality and bleeding risk in england between 1998-2015.** **P4244**
 – A. Kempny, K. Dimopoulos, L.C. Price, M.A. Gatzoulis, C. McCabe, S.J. Wort (London, UK)
- A changing landscape: temporal trends in incidence and characteristics of patients hospitalised with venous thromboembolism.** **P4245**
 – S.P. Johnsen, T.B. Rasmussen, A.M. Falstie-Jensen, L. Harboe, G. Stynes, L. Dybro, M.L. Hansen, A. Brandes, E. Grove, A.M. Munster (Aarhus, Copenhagen, Roskilde, Odense and Esbjerg, DK; London, UK)
- Free-floating thrombi in the right heart: pooled analysis of reported cases in the last 10 years.** **P4246**
 – L.M. Burgos, M.V. Galizia, A. Sigal, A. Iribarren, M.E. Aris Cancela, J.B. Parodi, M. Trivi, J.P. Costabel (Buenos Aires, AR)
- Veno-arterial extracorporeal membrane oxygenation in high risk pulmonary embolism.** **P4247**
 – B. Guillon, G. Piton, G. Capellier, M. Chatot, B. Bonnet, S. Pili-Floury, A. Perrotti, S. Chocron, F. Schiele, N. Meneveau (Besançon, FR)

BEST POSTERS IN GENETICS IN HYPERTENSION

- Discussant: Best Posters in genetics in hypertension.** **P4248**
 – S. Padmanabhan (Glasgow, UK), M. Tomaszewski (Manchester, UK)
- Genetic determinants of bioactive lipid species in a hypertension cohort.** **P4249**
 – K. McGurk, A. Nicolaou, B. Keavney (Manchester, UK)
- Gene-Gene interaction between NPY and PPARGC1A on the risk of essential hypertension: the large-scale association study of the Japanese population.** **P4250**
 – M. Eto, M. Okayama, T. Takeshima, M. Kumada, T. Aonuma, Y. Nakamura, E. Kajii (Wakuya, Kobe and Shimotsuke, JP)
- Increased predictive capacity for essential hypertension according to the number of gene polymorphisms.** **P4251**
 – A.C. Sousa, J. Monteiro, T. Goes, L. Nobrega, G. Guerra, M. Rodrigues, E. Henriques, S. Borges, I. Ornelas, D. Pereira, R. Palma Dos Reis, M.I. Mendonca (Funchal and Lisbon, PT)
- Relationship between pulse pressure and silent and ongoing myocardial damage in the general population.** **P4252**
 – T. Takahashi, T. Shishido, T. Watanabe, K. Watanabe, T. Sugai, T. Toshima, S. Nishiyama, H. Takahashi, T. Arimoto, T. Miyamoto, I. Kubota (Yamagata, JP)

BEST POSTERS IN HOME AND REMOTE MONITORING

- Discussant: Best Posters in home and remote monitoring.** **P4253**
 – F. Braunschweig (Stockholm, SE), H. Burri (Geneva, CH)
- The MONITOR-ICD study: a randomized comparison of economic and clinical effects of automatic remote monitoring versus control in patients with ICDs.** **P4254**
 – M. Zabel, S.N. Willich, J.C. Geller, J. Brachmann, V. Kuehlkamp, R. Dissmann, L. Luethje, L. Bergau, F. Bode, L. Eckardt, T. Reinhold, S. Roll, F. Mueller-Riemenschneider (Göttingen, Berlin, Bad Berka, Coburg, Konstanz, Bremerhaven, Lübeck and Münster, DE)
- Physical activity measured by cardiac implanted devices predicts atrial fibrillation and patient outcomes.** **P4255**
 – F. Guerra, P. Palmisano, E. Ammendola, M. Ziacchi, E. Pisano, G. Dell’Era, V. Aspromonte, M. Zaccaria, A. Capucci, G. Nigro, G. Boriani, G. Milanese, E. Occhetta, G. Maglia, M. Accogli (Ancona, Tricase, Naples, Bologna, Lecce, Novara, Catanzaro and Modena, IT)
- Outsourcing of remote management of cardiac implantable electronic devices through an external remote monitoring center: an efficacy and safety evaluation.** **P4256**
 – G. Giannola, R. Torcivia, A. Gardini, F. Glisenti (Cefalu and Brescia, IT)
- Assessing the accuracy of an automated atrial fibrillation detection algorithm using novel smartphone technology.** **P4257**
 – A. William, M. Kanbour, T. Callahan, M. Bhargava, A. Hussein, N. Varma, J. Rickard, W. Saliba, K. Wolski, O. Wazni, K. Tarakji (Cleveland and Huntington, US)

BEST POSTERS IN ANTIPLATELET AGENTS IN ACUTE CORONARY SYNDROMES

<p>Discussant: Best Posters in antiplatelet agents in acute coronary syndromes. – P.M. Clemmensen (Nykobing, DK), J.M. Siller-Matula (Vienna, AT)</p>	<p>P4258</p>
<p>Association of PCSK9 with platelet reactivity in patients with acute coronary syndrome treated with prasugrel or ticagrelor: the PCSK9-REACT study. – M. Kolodziejczak, M.P. Winter, A. Alimohammadi, I.M. Lang, A. Buffon, G.Y.H. Lip, J. Siller-Matula, E.P. Navarese (Bydgoszcz, PL; Vienna, AT; Rome and Milan, IT; Birmingham, UK)</p>	<p>P4259</p>
<p>Comparison of Prescription and Bleeding Rates and Clinical Outcomes of Contemporary P2Y12 Inhibitors in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention. – J.C. Choe, K.S. Cha, S.H. Lee, D.Y. Kim, J. Ahn, J.S. Park, H.W. Lee, J.H. Oh, J.H. Choi, H.C. Lee, T.J. Hong, M.H. Jeong (Pusan and Gwangju, KR)</p>	<p>P4260</p>
<p>Ticagrelor- and prasugrel-mediated platelet inhibition is not affected by mild therapeutic hypothermia generated in vitro in patients with an acute myocardial infarction. – I. Buera, A.L. Marcano, L. Alcoberro, J.C. Sanchez-Salado, V. Lorente, L.M. Lugo, J.L. Ferreiro, A. Ariza, J.A. Gomez-Hospital, A.R. Cequier (L'Hospitalet de Llobregat and Barcelona, ES)</p>	<p>P4261</p>
<p>Influence of amlodipine on antiplatelet effect of clopidogrel in patients treated with percutaneous coronary intervention: result of the randomized, prospective, two-period, crossover, ACCEL-CCB trial. – Y.H. Jeong, J.S. Koh, M.G. Kang, K.H. Kim, H.W. Park, J.H. Ahn, Y. Park, S.J. Hwang, C.H. Kwak, J.Y. Hwang, M.K. Kim (Jinju, Changwon and Seoul, KR)</p>	<p>P4262</p>

Posters are on display from 14:00 to 18:00. Presenters will be by their poster during the coffee break between 15:30 and 16:30 for posters viewing time.

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– P. Stachon, K.K. Kaier, A.Z. Zirlik, C.M. Von Zur Muehlen, M.Z. Zehender, C.B. Bode, J.R. Reinhoehli (Freiburg, DE)

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Prognostic value of heart failure before and during the first year after TAVI. Factors determining heart failure after TAVI. P4266

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18:00–18:45 | Dali - The Hub

AWARDS CEREMONY

Special Event

Chairperson(s): S. Achenbach (Erlangen, DE); J.J. Bax (Leiden, NL)

ESC Awards Inspirational Career Lecture.

4700

– A. DeMaria (La Jolla, US)

Awards presentation.

4701

18:30–19:15 | Gaudi - The Hub

MANAGING PATIENTS WITH PULMONARY EMBOLISM AFTER HOSPITAL DISCHARGE... CONSIDERING THE EVIDENCE FOR ANTICOAGULATION Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): D. Jimenez (Madrid, ES); J. Weitz (Hamilton, CA)

18:30 **Opening remarks - Managing patients with pulmonary embolism after hospital discharge... Considering the evidence for anticoagulation.** 4702

– D. Jimenez (Madrid, ES)

18:35 **Understanding the risk of recurrence in venous thromboembolism (VTE)... In whom the risk persists.** 4703

– D. Jimenez (Madrid, ES)

18:45 **The emerging role of novel oral anticoagulants (NOACS) in extended treatment of VTE: what we have learned.** 4704

– J. Weitz (Hamilton, CA)

18:55 **Moving from acute to continued treatment after hospital discharge... Selecting the right anticoagulant at the right dose for the right patient.** 4705

– D. Jimenez (Madrid, ES), J. Weitz (Hamilton, CA)

19:05 **Question and Answers - Managing patients with pulmonary embolism after hospital discharge... Considering the evidence for anticoagulation.** 4706

– J. Weitz (Hamilton, CA), D. Jimenez (Madrid, ES)

19:10 **Closing remarks - Managing patients with pulmonary embolism after hospital discharge... Considering the evidence for anticoagulation.** 4707

– J. Weitz (Hamilton, CA)

18:30–19:15 | Picasso - The Hub

A CLOSER LOOK AT GLUCOSE LOWERING AGENTS CARDIOVASCULAR SAFETY RESULTS AND CURRENT HEART FAILURE GUIDELINES Satellite Symposium

Sponsored by MSD

Chairperson(s): A.K. Gitt (Ludwigshafen, DE)

18:30 **Opening remarks - A closer look at glucose lowering agents CV safety results and current heart failure guidelines.** 4708

– A.K. Gitt (Ludwigshafen, DE)

18:35 **Latest insights from the TECOS trial: clarifying the role for dipeptidyl peptidase-4 (DPP-4) inhibitors in the treatment of cardiovascular patients with type 2 diabetes and heart failure.** 4709

– E. Peterson (Durham, US)

18:50 **Roundtable discussion: what can we learn from current guidelines – Do they accurately reflect current knowledge and what can we expect over time?** 4710

– E. Peterson (Durham, US), A.K. Gitt (Ludwigshafen, DE), L. Ryden (Stockholm, SE)

19:10 **Closing remarks - A closer look at glucose lowering agents cardiovascular safety results and current heart failure guidelines.** 4711

– A.K. Gitt (Ludwigshafen, DE)

18:30–20:00 | Dublin - Village 1

CARDIOVASCULAR RISK: THE DANGERS OF BLOOD PRESSURE AND LOW-DENSITY LIPOPROTEIN CHOLESTEROL

Satellite Symposium

Sponsored by Pfizer Inc.

Chairperson(s): K.K. Ray (London, UK)

- | | | |
|-------|---|------|
| 18:30 | Welcome, introduction and objectives - Cardiovascular risk: the dangers of blood pressure and low-density lipoprotein cholesterol.
– K.K. Ray (London, UK) | 4712 |
| 18:35 | Assessing global CV risk – Rationale, methods and a global call to action.
– K.K. Ray (London, UK) | 4713 |
| 18:55 | The burden of hypertension and high cholesterol – Impact of non-compliance and failure to reach goals.
– R.S. Rosenson (New York, US) | 4714 |
| 19:15 | Improving outcomes – The current and growing body of evidence for treating both hypertension and high cholesterol.
– N.R. Poulter (London, UK) | 4715 |
| 19:35 | Panel discussion and Q&A - Cardiovascular risk: the dangers of blood pressure and low-density lipoprotein cholesterol.
– K.K. Ray (London, UK), N.R. Poulter (London, UK), R.S. Rosenson (New York, US) | 4716 |
| 19:55 | Summary & call to action - Cardiovascular risk: the dangers of blood pressure and low-density lipoprotein cholesterol.
– K.K. Ray (London, UK) | 4717 |

ESC CONGRESS

BARCELONA 2017

TUESDAY 29 AUGUST



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TUESDAY

Wake up your brain with breakfast and discussion.

A unique opportunity for interaction between a small audience and selected experts addressing a specific and current issue. Come in early to enjoy the complimentary breakfast.

07:30–08:15 | Dali - The Hub

CARDIAC CT AS A DECISION MAKER

Cardiology@breakfast

Chairperson(s): A. Schermund (Frankfurt, DE)

- 07:30 **Integrating CT imaging in the workup of patients with acute chest pain.** 4718
– F. Pugliese (London, UK)
- 07:52 **Is there a role for cardiac CT in asymptomatic individuals?** 4719
– A. Schermund (Frankfurt, DE)

07:30–08:15 | Gaudi - The Hub

Today on ESC TV

Cardiologists of Tomorrow

FIRST NIGHT IN THE ICU – SURVIVAL OF THE FITTEST

Cardiology@breakfast

Chairperson(s): M. Wallner (Philadelphia, US)

- 07:30 **Advice from a senior - How to get through your first ICU shift with confidence.** 4720
– M. Lettino (Milan, IT)
- 07:52 **Top ten tips to manage critically ill CCU patients.** 4721
– D. von Lewinski (Graz, AT)

07:30–08:15 | Goya - The Hub

GENE EDITING WITH CRISPR/CAS9

Cardiology@breakfast

Science@breakfast

Chairperson(s): C. Perrino (Naples, IT)

- 07:30 **Principles of CRISPR/Cas9.** 4722
– T.R. Webb (Leicester, UK)
- 07:52 **Applications and perspectives of CRISPR/Cas9.** 4723
– L. Carrier (Hamburg, DE)

07:30–08:15 | Miro - The Hub

DRUGS AND e-CIGARETTES FOR SMOKING CESSATION

Cardiology@breakfast

Chairperson(s): E. Prescott (Copenhagen, DK)

- 07:30 **Choosing the right pharmacologic agent for smoking cessation.** 4724
– M.-L. Lochen (Tromsø, NO)
- 07:52 **e-cigarettes: harmful or helpful.** 4725
– S. Agrawal (Leisen, UK)

07:30–08:15 | Picasso - The Hub

TROPONIN TIMES ARE CHANGING

Cardiology@breakfast

Chairperson(s): H.A. Katus (Heidelberg, DE)

- 07:30 **Pitfalls in the interpretation of cardiac troponins.** 4726
– L.K. Newby (Durham, US)
- 07:52 **Accelerated rule-in/rule-out of acute myocardial infarction.** 4727
– M. Rubini Gimenez (Basel, CH)

08:30–10:00 | Barcelona - Main Auditorium

HOT LINE: LATE-BREAKING CLINICAL TRIALS 4		Hot Line
Chairperson(s): M. Komajda (Paris, FR); H. Bueno (Madrid, ES)		
08:30	Clinical effects of anacetrapib in people with established vascular disease: Results of the Randomized Evaluation of the Effects of Anacetrapib through Lipid-modification (HPS3/TIMI55-REVEAL) trial. – M.J. Landray (Oxford, UK)	4728
08:40	Discussant review: Clinical effects of anacetrapib in people with established vascular disease: Results of the Randomized Evaluation of the Effects of Anacetrapib through Lipid-modification (HPS3/TIMI55-REVEAL) trial. – J. Chapman (Paris, FR)	4729
08:45	Panel discussion.	4730
08:48	Does intensive treat-to-target LDL-C lowering therapy using statin in patients of diabetic retinopathy reduce cardiovascular events? The EMPATHY study. – H. Itoh (Tokyo, JP)	4731
08:58	Discussant review: Does intensive treat-to-target LDL-C lowering therapy using statin in patients of diabetic retinopathy reduce cardiovascular events? The EMPATHY study. – E. Prescott (Copenhagen, DK)	4732
09:03	Panel discussion.	4733
09:06	Exercise training in diastolic heart failure (Ex-DHF): a multicenter, prospective, randomized, controlled, parallel group trial. – F. Edelmann (Berlin, DE)	4734
09:16	Discussant review: Exercise training in diastolic heart failure (Ex-DHF): a multicenter, prospective, randomized, controlled, parallel group trial. – J.G.F. Cleland (Glasgow, UK)	4735
09:21	Panel discussion.	4736
09:24	Catheter Ablation compared with optimized Pharmacological Therapy for Atrial Fibrillation, a randomized multicentre study of quality of life and implantable cardiac monitoring after 12 month follow-up. – C. Blomstrom-Lundqvist (Uppsala, SE)	4737
09:34	Discussant review: Catheter Ablation compared with optimized Pharmacological Therapy for Atrial Fibrillation, a randomized multicentre study of quality of life and implantable cardiac monitoring after 12 month follow-up. – N. Marrouche (Salt Lake City, US)	4738
09:39	Panel discussion.	4739
09:42	Assessment of REmote HEArT Rhythm Sampling using the AliveCor heart monitor to scrEen for Atrial Fibrillation (The REHEARSE-AF study). – J.P.J. Halcox (Swansea, UK)	4740
09:52	Discussant review: Assessment of REmote HEArT Rhythm Sampling using the AliveCor heart monitor to scrEen for Atrial Fibrillation. – C. Leclercq (Rennes, FR)	4741
09:57	Panel discussion.	4742

08:30–10:00 | Spotlight Stage



Vote & Ask a Question

LEFT MAIN IS NOW A DOMAIN OF INTERVENTIONAL CARDIOLOGY		Great Debate
Chairperson(s): J. Fajadet (Toulouse, FR); M. Sousa Uva (Lisbon, PT)		
08:30	Positioning of the topic - Why left main disease is different. – E. Braunwald (Boston, US)	4743
08:45	Left main is no longer a surgical domain - PRO. – A.P. Banning (Oxford, UK)	4744
09:05	Left main is no longer a surgical domain - CON. – F.W. Mohr (Leipzig, DE)	4745
09:25	Left main is no longer a surgical domain - Rebuttal PRO. – A.P. Banning (Oxford, UK)	4746
09:30	Left main is no longer a surgical domain - Rebuttal CON. – F.W. Mohr (Leipzig, DE)	4747
09:35	Left main is now a domain of interventional cardiology - Moderated discussion.	4748
09:50	Left main is now a domain of interventional cardiology - Chairperson discussion. – J. Fajadet (Toulouse, FR)	4749

08:30–10:00 | Dali - The Hub

 Vote & Ask a Question

SECONDARY MITRAL REGURGITATION REQUIRES INVASIVE THERAPY TO IMPROVE OUTCOME

Great Debate

Chairperson(s): T. Feldman (Evanston, US); A. Vahanian (Paris, FR)

08:30	Positioning of the topic - Secondary mitral regurgitation - Pathophysiology and treatment options.	4750
	- R. Hahn (New York, US)	
08:45	Secondary mitral regurgitation requires invasive therapy to improve outcome - PRO.	4751
	- F. Maisano (Zurich, CH)	
09:05	Secondary mitral regurgitation requires invasive therapy to improve outcome - CON.	4752
	- A. Hagendorff (Leipzig, DE)	
09:25	Secondary mitral regurgitation requires invasive therapy to improve outcome - Rebuttal PRO.	4753
	- F. Maisano (Zurich, CH)	
09:30	Secondary mitral regurgitation requires invasive therapy to improve outcome - Rebuttal CON.	4754
	- A. Hagendorff (Leipzig, DE)	
09:35	Secondary mitral regurgitation requires invasive therapy to improve outcome - Moderated discussion.	4755
09:50	Secondary mitral regurgitation requires invasive therapy to improve outcome - Chairperson conclusion.	4756
	- A. Vahanian (Paris, FR)	

08:30–10:00 | Gaudi - The Hub



Cardiologists of Tomorrow

PREPARING FOR THE NEXT 40 YEARS OF INTERVENTION – WHAT SKILLS DO TOMORROW'S INTERVENTIONALISTS NEED?

Special Session

Chairperson(s): S. Muscoli (Rome, IT); F. Weidinger (Vienna, AT)

08:30	The future of TAVI.	4757
	- B.D. Prendergast (London, UK)	
08:52	The future of mitral valve interventions.	4758
	- G. Nickenig (Bonn, DE)	
09:15	Novel approaches to PCI with IVUS, OCT and FFR.	4759
	- T.K. Rudolph (Cologne, DE)	
09:37	Plugs: PFOs, ASDs, LAAs.	4760
	- G.P. Ussia (Rome, IT)	

08:30–10:00 | Goya - The Hub

 Vote & Ask a Question

NEW ESC CLINICAL PRACTICE GUIDELINES 2016/2017 – CLINICAL CASES PUT INTO PERSPECTIVE

Guidelines in Daily Practice

Chairperson(s): J. Grapsa (London, UK); U. Landmesser (Berlin, DE)

08:30	When to start preventive therapy - Best way forward? Case.	4761
	- R.C. Vidal Perez (Santiago de Compostela, ES)	
08:50	When to start preventive therapy - Best way forward? What do the Guidelines say?	4762
	- J.E. Deanfield (London, UK)	
08:58	Doubts with long-term DAPT after STEMI? What do new Guidelines/consensus documents teach us? Case.	4763
	- M. Pazdernik (Prague, CZ)	
09:18	Doubts with long-term DAPT after STEMI? What do new Guidelines/consensus documents teach us? What do the Guidelines say?	4764
	- S. James (Uppsala, SE)	
09:26	Save the patient: control the rhythm? Case.	4765
	- J. Kosiuk (Leipzig, DE)	
09:46	Save the patient: control the rhythm? What do the Guidelines say?	4766
	- T.L. Lewalter (Munich, DE)	
09:54	New ESC Clinical Practice Guidelines 2016/2017 - Clinical cases put into perspective - Conclusion.	4767
	- J. Grapsa (London, UK)	

08:30–10:00 | Miro - The Hub

**STABLE CORONARY ARTERY DISEASE – THE “BIG PICTURE”**

Special Session

Organised with the Hellenic Society of Cardiology

Chairperson(s): C. Tsioufis (Athens, GR); S.G. Foussas (Athens, GR)

08:30	Clinical case. – A. Ziakas (Thessaloniki, GR)	4768
08:40	Top ten messages of the latest ESC Guidelines. – D. Tousoulis (Athens, GR)	4769
08:55	Registry and survey information from Greece: problems and opportunities in improving care for stable coronary artery disease. – N. Nikolaou (Athens, GR)	4770
09:15	New since the last Guidelines: recent scientific developments in stable coronary artery disease. – P. Davlouros (Rio Patras, GR)	4771
09:35	Clinical case. – I.-G. Kanakakis (Athens, GR)	4772
09:45	Moderated panel discussion: what is most important to optimise clinical management of stable coronary artery disease. – K. Dimitriadis (Athens, GR), S.G. Foussas (Athens, GR), U. Sechtem (Stuttgart, DE), C. Tsioufis (Athens, GR), D.N. Tziakas (Alexandroupolis, GR), P.E. Vardas (Heraklion, GR)	4773

08:30–10:00 | Picasso - The Hub

MOLECULAR IMAGING BEYOND CAD

Rapid Fire Abstract

Chairperson(s): I. Carrio (Barcelona, ES); A. Saraste (Turku, FI)

08:30	Cardiac sympathetic activity pre and post resynchronization therapy. – R. Ilhao Moreira, A. Abreu, I. Rodrigues, M. Coutinho Cruz, G. Portugal, T. Mendonca, A. Goncalves, H. Santa Clara, L. Oliveira, P. Cunha, M. Mota Carmo, M. Oliveira, R. Cruz Ferreira (Lisbon, PT)	4774
08:39	Diagnostic value of Positron emission tomography (PET/CT) in native and prosthetic infective endocarditis. – R.A. Camargo, R.F. Siciliano, M.R. Paixao, A.M. Soeiro, J. Soares Jr, M.F. Felicio, T.M.V. Strabelli, C.A. Buchpiguel, A. Alavi, L. Tonello, A.J. Mansur, F. Tarasoutchi, M.T. Oliveira Jr, J.C. Meneghetti (São Paulo, BR; Philadelphia, US)	4775
08:48	Prevalence and clinical significance of abnormalities detected on positron emission tomography in patients with clinically suspected myocarditis. – E.C. Wicks, L.J. Menezes, A. Barnes, S.A. Mohiddin, N. Sekhri, E.C. Garrett, R.S. Patel, M. Pavlou, A.M. Groves, P.M. Elliott (London, UK)	4776
08:57	Clinical utility of 99mTc-PYP and 201TI-CI SPECT imaging using quantitative evaluation in patients with suspected cardiac amyloidosis. – S. Ito, S. Ito, N. Kodani, A. Endo, T. Okada, N. Watanabe, T. Ouchi, H. Yoshitomi, K. Tanabe (Izumo, JP)	4777
09:06	Impaired myocardial perfusion during atrial fibrillation in patients with non-ischaemic systolic heart failure - A cross-sectional study using Rubidium-82 PET/CT. – C. Byrne, P. Hasbak, A. Kjaer, J.J. Thune, L. Koeber (Copenhagen, DK)	4778
09:15	Myocardial uptake of bone scintigraphic agents associated with cardiac amyloidosis in daily practice. – S. Fukuzawa, S. Okino, N. Kuroiwa, Y. Iwata, T. Uchiyama, K. Yamanaka, M. Inagaki (Funabashi, JP)	4779
09:24	Visualisation of left atrial sympathetic activity distribution and its physiological variation over time in healthy individuals. – A. Romanov, S. Minin, C. Breault, N. Nikitin, J. Stirrup, V. Shabanov, I. Mikheenko, D. Losik, I. Stenin, D. Elesin, E. Pokushalov (Novosibirsk, RU; Caesarea, IL; London, UK)	4780
09:33	Obesity and endothelial dysfunction: insights from non-invasive coronary flow reserve. – A. Aljizeeri, M. Alali Alfaris, D. Ahmed, I. Suliman, A. Sulaiman, A. Ahmed, H. Fielding, M. Al-Mallah (Riyadh, SA)	4781
09:42	Prognostic value of 123I-betamethyl-p-iodophenyl-pentadecanoic acid single-photon emission computed tomography in patients with non-ischemic heart failure with preserved ejection fraction. – H. Hashimoto, R. Nakanishi, S. Mizumura, Y. Hashimoto, Y. Okamura, S. Kiuchi, J. Yamazaki, T. Ikeda (Tokyo, JP)	4782
09:51	The incidence and clinical significance of 18F-fluorodeoxyglucose re-uptake on cardiac positron emission tomography in patient with cardiac sarcoidosis after receiving corticosteroid therapy. – N. Serizawa, M. Momose, K. Fukushima, A. Nomura, T. Shiga, N. Hagiwara (Tokyo, JP)	4783

08:30–10:00 | Agora 1 - Agora

CARDIOMYOPATHIES: NEW INSIGHTS

Rapid Fire Abstract

Chairperson(s): I. Kindermann (Homburg, DE); A. Pantazis (London, UK)

- 08:30 **Immune-mediated myocardial inflammation in Fabry Disease cardiomyopathy.** 4784
 – A. Frustaci, R. Verardo, C. Grande, N. Galea, I. Carbone, M. Alfarano, M.A. Russo, C. Chimenti (Rome, IT)
- 08:39 **Takotsubo cardiomyopathy complicated by cardiogenic shock. Insights from the nationwide RETAKO Registry.** 4785
 – M. Almendro, M. Lobo, I.J. Nunez-Gil, M. Andres, A. Sionis, A. Martin, T. Bastante, J.G. Cordoba-Soriano, J.A. Linares, S. Gonzalez Sucarrats, A. Sanchez-Grande-Flecha, O. Fabregat-Andres, B. Perez, J.M. Escudier-Villa, J.C. Garcia-Rubira (Seville, Madrid, Barcelona, Salamanca, Albacete, Zaragoza, Lerida, Santa Cruz de Tenerife, Valencia, Málaga and Majadahonda, ES)
- 08:48 **Discordance between the criteria for ICD implantation in the primary prevention of sudden death among patients with hypertrophic cardiomyopathy.** 4786
 – P. Freitas, A. Ferreira, J. Abecasis, H. Marques, C. Saraiva, D.N. Matos, R. Rodrigues, N. Cardim, V.M. Gil, M. Mendes (Lisbon and Setubal, PT)
- 08:57 **Cardiac transplantation in hypertrophic cardiomyopathy in the united states: 2003-2011.** 4787
 – A. Singh, S. Agrawal, S. Pakniyat, S. Randhawa, S. Saluja, S. Nanda, J. Shirani (Bethlehem, US)
- 09:15 **Cardiac sarcoidosis may meet the diagnostic criteria for arrhythmogenic right ventricular cardiomyopathy.** 4788
 – P. Simonen, J. Lehtonen, M. Kupari (Helsinki, FI)
- 09:24 **Non-invasive imaging of myocardial disarray associates with ventricular arrhythmia in hypertrophic cardiomyopathy.** 4789
 – R. Ariga, E.M. Tunnicliffe, S.G. Manohar, L. Clifton, M. Mahmood, M.D. Robson, H. Watkins, S. Neubauer (Oxford, UK)
- 09:33 **Exercise dose and threshold for adverse outcome in arrhythmogenic cardiomyopathy.** 4790
 – O.H. Lie, J. Saberniak, L.A. Dejgaard, M.K. Stokke, T. Edvardsen, K.H. Haugaa (Oslo, NO)
- 09:42 **Cardiac and genetic features of noncompaction cardiomyopathy and its relation to late outcome: a Dutch multicenter study of 327 pediatric and adult patients.** 4791
 – J.I. Van Waning, K. Caliskan, Y.M. Hoedemaekers, K.Y. Van Spaendonck, A.F. Baas, S.M. Boekholdt, J.P. Van Melle, L.F. Asselbergs, A.P.C.M. Backx, M. Dalinghaus, H. Breur, G.J. Du Marchie Sarvaas, R.H. Lekanne Dit Deprez, J.D.H. Jongbloed, D.F. Majoer-Krakauer (Rotterdam, Groningen, Amsterdam and Utrecht, NL)
- 09:51 **Late gadolinium enhancement and arrhythmic risk prediction in patients with LMNA-related cardiomyopathy: results from a long-term follow-up multicenter study.** 4792
 – G. Peretto, C. Forleo, A. Barison, S. Sala, C. Di Resta, M. Ferrari, S. Favale, P. Della Bella, S. Benedetti (Milan, Bari and Pisa, IT)

08:30–10:00 | Agora 2 - Agora



HEART TEAM IN ACTION – OPTIMISING DECISIONS AROUND VALVULAR INTERVENTIONS **Rapid Fire Abstract**

Chairperson(s): A. Finkelstein (Tel Aviv, IL); H.A. Katus (Heidelberg, DE)

- 08:30 **Impact of stroke volume and transvalvular pressure gradient on survival after transfemoral transcatheter aortic valve implantation.** **4793**
– G. Stachel, N. Mangner, F.J. Woitek, R. Hoellriegel, S. Haussig, F. Schlotter, S. Leontyev, D. Holzhey, F.W. Mohr, G.C. Schuler, A. Linke (Leipzig, DE)
- 08:39 **Presentation, detection and treatment of Lotus valve thrombosis.** **4794**
– K.H. Loeland, O. Bleie, E.J.S. Packer, N. Tuseth, E. Eriksen, A. Oeksnes, S. Sandberg, T.H. Larsen, K.K.J. Kuiper (Bergen, NO)
- 08:48 **Impact of transcatheter aortic valves geometry on valvular performance: evaluation using multi-slice computed tomography.** **4795**
– J. Almeida, S. Ferreira, P. Fonseca, T. Dias, C. Guerreiro, A. Barbosa, P. Teixeira, D. Caeiro, N. Ferreira, J. Ribeiro, P. Braga, V. Gama Ribeiro (Vila Nova de Gaia and Ponta Delgada, PT)
- 08:57 **Modulation of Exosomal microRNA in patients with severe Aortic Stenosis after Transcatheter Aortic Valve Implantation (TAVI).** **4796**
– S. De Rosa, C. Gareri, C. Iaconetti, M.T. Di Martino, M.A. Makara, W. Tian, L. Tamme, M.A. Amatruda, S. La Bella, A. Mongiardo, P. Tassone, C. Spaccarotella, H.A. Rockman, C. Indolfi (Catanzaro, IT; Durham, US)
- 09:06 **Annulus rupture after ballon-expandable transcatheter aortic valve implantation. Can we eliminate this complication by advanced practice?** **4797**
– F. De Torres Alba, G. Kaleschke, J. Vormbrock, M. Feurle, W. Stepper, R. Schmidt, R. Radke, S. Orwat, D. Fischer, H. Reinecke, H. Deschka, G.-P. Diller, H. Baumgartner (Münster, DE)
- 09:15 **Prevalence of suitable valve morphology for mitraclip in patients with secondary mitral regurgitation.** **4798**
– J.M. Monteagudo Ruiz, M. Galderisi, A. Buonauro, L. Badano, P. Aruta, F. Tanner, D. Cassani, F. Faletra, L.A. Leo, A. Saraste, A. Martinez, J. Matabueno, D. Alonso-Rodriguez, C. Fernandez-Golfín, J.L. Zamorano (Madrid, Santiago de Compostela, Seville and León, ES; Naples and Padua, IT; Zurich and Lugano, CH; Turku, FI)
- 09:24 **Comparison of perioperative outcomes among patients who underwent transcatheter mitral valve replacement (TMVR) and surgical mitral valve replacement (SMVR): analysis from the NIS 2012-2014.** **4799**
– S. Alliu, C. Adejumo, M. Durojaiye, V. Namana, S. Kamholz, F. Robert, J. Shani (Brooklyn, Worcester and Birmingham, US)
- 09:33 **Left atrial hemodynamics during percutaneous mitral paravalvular leak closure are associated with long term survival.** **4800**
– E. Maor, C.E. Raphael, S. Panaich, M. Alkhoul, A. Cabalka, D. Hagler, P. Pollak, G.S. Reeder, R. Nishimura, M.F. Eleid, C.S. Rihal (Rochester and Jacksonville, US)
- 09:42 **Real structural valve deterioration of the mitroflow aortic prosthesis: competing risk analysis.** **4801**
– D. Hernandez-Vaquero, R. Diaz, J. Silva, I. Pascual, R. Alvarez-Cabo, J. Rozado, C. Moris (Oviedo, ES)
- 09:51 **Occurrence and classification of cerebrovascular events after aortic valve replacement with a bioprosthesis.** **4802**
– J. Lehto, M. Malmberg, F. Biancari, J. Hartikainen, L. Ihlberg, F. Yannopoulos, T. Riekkinen, A. Nissfolk, S. Salmi, M. Nissinen, J. Airaksinen, T. Nieminen, T. Kiviniemi (Turku, Oulu, Kuopio and Helsinki, FI)

08:30–09:30 | Dublin - Village 1

BASIC AND TRANSLATIONAL SCIENCE HOT LINE 2 **Basic and Translational Science Hot Line**

Chairperson(s): K.R. Sipido (Leuven, BE); J.D. Pearson (London, UK)

- 08:30 **Differential implication of PAR signaling in thrombin generation and proliferation of vascular smooth muscle cells from human thoracic and abdominal aortic aneurysms.** **4803**
– M. Didelot (Vandoeuvre-lès-Nancy, FR)
- 08:50 **Anti-EDA antibody injection 3 days after myocardial infarction prevents heart failure development and aneurysm formation in mice and pigs.** **4804**
– F. Arslan (Nieuwegein, NL)
- 09:10 **GLP-1(28-36) prevents ischemic cardiac injury by modulating metabolism and activating soluble adenylyl cyclase in coronary vascular cells.** **4805**
– M.A. Siraj (Toronto, CA)

08:30–10:00 | Fira - Village 1

NEW TARGETS AND STRATEGIES FOR CARDIOPROTECTION

Symposium

Chairperson(s): D. Garcia-Dorado (Barcelona, ES); R. Schulz (Giessen, DE)

- 08:30 **Melatonin and cardioprotection: hope or hype?** 4806
– S. Lecour (Observatory, ZA)
- 08:52 **Targeting mitochondria for cardioprotection.** 4807
– H.E. Botker (Aarhus, DK)
- 09:15 **Multi-omics strategies to identify novel therapeutic targets for cardioprotection.** 4808
– P. Ferdinandy (Budapest, HU)
- 09:37 **Cardioprotection: will it ever translate to the clinic?** 4809
– G. Heusch (Essen, DE)

08:30–10:00 | Astana - Village 2

THE HYPERTENSIVE HEART

 Case-based Symposium

Chairperson(s): G.A. Derumeaux (Créteil, FR); G. de Simone (Naples, IT)

- 08:30 **A 59 year old man with hypertension, LVH and dyspnea on exertion.** 4810
– M. Senni (Bergamo, IT)
- 09:00 **Symptomatic hypertensive heart disease: pathophysiology, consequences and treatment options.** 4811
– B. Pieske (Berlin, DE)
- 09:30 **Imaging to differentiate hypertensive heart disease from other conditions.** 4812
– F.J. Pinto (Lisbon, PT)

08:30–10:00 | Pristina - Village 2

PHARMACOLOGICAL TREATMENT OF TAKOTSUBO CARDIOMYOPATHY

Symposium

Chairperson(s): S. Agewall (Oslo, NO); P. Tornvall (Djursholm, SE)

- 08:30 **Takotsubo pathophysiology and presentation.** 4813
– E. Omerovic (Gothenburg, SE)
- 08:52 **Diagnosis and prognosis of Takotsubo cardiomyopathy.** 4814
– J. Kuvin (Lebanon, US)
- 09:15 **Drug treatment for Takotsubo: antiplatelets, statins, betablockers and/or ACEi.** 4815
– J.C. Kaski (London, UK)
- 09:37 **Panel discussion: pharmacological treatment of Takotsubo cardiomyopathy.** 4816

08:30–10:00 | Beirut - Village 3

CAD PROGNOSIS: IS CT THE NEW CRYSTAL BALL?

Advances in Science

Chairperson(s): F. Pugliese (London, UK); Q. Truong (New York, US)

- 08:30 **State of the Art: risk stratification by coronary CT angiography.** 4817
– M. Ferencik (Portland, US)
- 08:48 **Anatomic and functional imaging to predict long-term outcome and benefits of early revascularization in patients with suspected coronary artery disease: results from the EVINCI study.** 4818
– D. Neglia, R. Liga, C. Caselli, V. Lorenzoni, G. Turchetti, A.J.H.A. Scholte, R. Sicari, J. Zamorano, M. Lombardi, O. Gaemperli, P.A. Kaufmann, J. Knuuti, R. Underwood (Pisa and San Donato Milanese, IT; Leiden, NL; Madrid, ES; Zurich, CH; Turku, FI; London, UK)
- 09:06 **Can coronary plaque analysis in asymptomatic diabetics identify future culprit plaques triggering acute coronary syndromes? An 8 year prospective study based on coronary CT angiography.** 4819
– D.A. Halon, R. Rubinshtein, B. Zafrir, M. Azencot, B.S. Lewis (Haifa, IL)
- 09:24 **Assessing the predictive value of coronary artery calcium score for predicting all-cause mortality in patients with renal impairment.** 4820
– J.H. Lee, D. Han, A. Rizvi, H. Gransar, H.E. Park, S.Y. Choi, J. Sung, S.H. Park, H.W. Han, H.O. Jung, E.J. Chun, H.J. Chang (Seoul, KR; New York and Los Angeles, US)
- 09:42 **The intricate relationship of plaque, ischaemia and prognosis: lessons from CT.** 4821
– P. Maurovich-Horvat (Budapest, HU)

08:30–10:00 | Riga - Village 3

MY BIGGEST MISTAKE IN IMAGING

 Case-based Symposium

Chairperson(s): V. Delgado (Leiden, NL); J. Schulz-Menger (Berlin, DE)

- 08:30 **My biggest mistake in echo for valvular heart disease.** 4822
– F. Flachskampf (Uppsala, SE)
- 08:52 **My biggest mistake in CMR for tissue characterisation.** 4823
– E. Nagel (Frankfurt, DE)
- 09:15 **My biggest mistake in SPECT/CT for CAD.** 4824
– R.R. Buechel (Zurich, CH)
- 09:37 **My biggest mistake in coronary CTA.** 4825
– F.Y. Lin (New York, US)

08:30–10:00 | Chisinau - Village 4

Today on ESC TV

Ask a Question

EATING YOUR WAY THROUGH PREVENTION

Symposium

Chairperson(s): M. Verschuren (Bilthoven, NL); D.B. Panagiotakos (Athens, GR)

- 08:30 **Diet in patients with metabolic syndrome - Low carb or low cholesterol?** 4826
– J. Tuomilehto (Helsinki, FI)
- 08:52 **Sweet infarcts: effect of sugar sweetened beverages on cardiovascular disease.** 4827
– G. Singh (Boston, US)
- 09:15 **Got milk? Effect of dairy products on cardiovascular disease.** 4828
– L. Kopin (Rochester, US)
- 09:37 **The gut and the heart.** 4829
– M. Troseid (Oslo, NO)

08:30–10:00 | Vilnius - Village 4

THE VULNERABLE PLAQUE SUMMIT

Symposium

Chairperson(s): J. Narula (New York, US); R. Redberg (San Francisco, US)

- 08:30 **Pathology of ACS and the vulnerable plaque.** 4830
– R. Virmani (Gaithersburg, US)
- 08:52 **Imaging the vulnerable plaque - Current status.** 4831
– Z.A. Fayad (New York, US)
- 09:15 **Biomarkers to identify at-risk individuals.** 4832
– W. Koenig (Munich, DE)
- 09:37 **Identifying at-risk coronary lesions and options for their treatment: what clinical trials have taught us.** 4833
– G. Stone (New York, US)

08:30–10:00 | Skopje - Village 5

SUDDEN CARDIAC DEATH IN THE YOUNG

Advances in Science

Chairperson(s): L. Mont (Barcelona, ES); N.M. Panhuyzen-Goedkoop (Rozendaal, NL)

- 08:30 **State of the Art: sudden cardiac death in the young.** 4834
– H. Heidbuchel (Antwerp, BE)
- 08:48 **Plaque instability in young sudden coronary death victims.** 4835
– S. Rizzo, G. Thiene, C. Basso (Padua, IT)
- 09:06 **Cardiac symptoms before unexpected sudden cardiac death in the young: data from a large pathology registry.** 4836
– G. Finocchiaro, M. Papadakis, B. Ensam, S. Papatheodorou, C. Miles, S. Samaraweera, W. Zaw, E.R. Behr, S. Sharma, M. Sheppard (London, UK)
- 09:24 **Coronary findings in sports-related compared to non sports-related sudden cardiac arrest.** 4837
– N. Karam, L. Pechmajou, F. Dumas, F. Beganton, W. Bougouin, D. Jost, L. Lamhaut, N. Aissaoui, A. Cariou, C. Spaulding, E. Marijon, X. Jouven (Paris, FR)
- 09:42 **Sudden cardiac death in the young: what is the best way forward?** 4838
– S.G. Priori (Pavia, IT)

08:30–10:00 | Valetta - Village 5

Vote & Ask a Question

ATRIAL FIBRILLATION

Guidelines in Daily Practice

Chairperson(s): C. Torp-Pedersen (Aalborg, DK); J.L. Tamargo (Madrid, ES)

- 08:30 **Gastrointestinal bleeding in an atrial fibrillation patient.** 4839
– T.S. Hall (Oslo, NO)
- 08:45 **Gastrointestinal bleeding in an atrial fibrillation patient - What do the Guidelines say?** 4840
– B.A. Popescu (Bucharest, RO)
- 09:00 **Gastrointestinal bleeding in an atrial fibrillation patient. How to implement the Guidelines – Panel discussion.** 4841
- 09:10 **Gastrointestinal bleeding in an atrial fibrillation patient - Conclusion and take home message.** 4842
– C. Torp-Pedersen (Aalborg, DK)
- 09:15 **New onset atrial fibrillation: which drug to choose for cardioversion.** 4843
– J. Poess (Lübeck, DE)
- 09:30 **New onset atrial fibrillation: which drug to choose for cardioversion - What do the Guidelines say?** 4844
– J. Steffel (Zurich, CH)
- 09:45 **New onset atrial fibrillation: which drug to choose for cardioversion. How to implement the Guidelines – Panel discussion.** 4845
- 09:55 **New onset atrial fibrillation: which drug to choose for cardioversion - Conclusion and take home message.** 4846
– J.L. Tamargo (Madrid, ES)

08:30–10:00 | Bishkek - Village 6

DEVICE SUPPORT FOR PATIENTS WITH ADVANCED HEART FAILURE

Advances in Science

Chairperson(s): H. Hasan Ali (Assiut, EG); L. Menicanti (San Donato, IT)

- 08:30 **State of the Art: ventricular assist devices - Most recent developments.** 4847
– J.F. Gummert (Bad Oeynhausen, DE)
- 08:48 **Etiologies and characteristics of 30-day readmission after implantation of ventricular assist device: a national population-based cohort study.** 4848
– S. Setareh-Shenas, A. Lemor, E. Herzog (New York, US)
- 09:06 **Cardiogenic shock on admission and assist devices in ACS patients: Data from a local myocardial infarction registry.** 4849
– L. Bruch, B. Maier, S. Behrens, R. Schoeller, H. Schuehlen, H. Theres (Berlin, DE)
- 09:24 **Veno-arterial extracorporeal membrane oxygenation in patients with myocardial infarction complicated by cardiogenic shock: importance of cellular hypoxia.** 4850
– N. Vdovin, S. Guenther, K. Rizas, W. Hamm, A.K. Strueven, C. Hagl, S. Massberg, A. Bauer (Munich, DE)
- 09:42 **Extracorporeal membrane oxygenation - For which patients?** 4851
– J.P.S. Henriques (Amsterdam, NL)

08:30–10:00 | Luxembourg - Village 6

INTERVENTIONAL CARDIOLOGY

Joint with the Japanese Circulation Society

Chairperson(s): T. Akasaka (Wakayama, JP); P.W.J.C. Serruys (Rotterdam, NL)

- 08:30 **Non flow-limiting vulnerable plaques detected by intracoronary optical coherence tomography.** 4852
– T. Kubo (Wakayama, JP)
- 08:52 **What have we learned from optical coherence tomography?** 4853
– M. Radu (Copenhagen, DK)
- 09:15 **Evaluating the coronary microcirculation.** 4854
– K. Tsujita (Kumamoto, JP)
- 09:37 **Intracoronary pressure measurements: FFR, IFR, Pd/Pa etc.** 4855
– J. Rieber (Munich, DE)



Symposium

08:30–10:00 | Podgorica - Village 6

CRITICAL DEBATES IN LOWER EXTREMITY ARTERY DISEASE

Debate Session

Chairperson(s): M. Bjorck (Uppsala, SE); C. Vlachopoulos (Athens, GR)

- 08:30 **Lower extremities artery disease: antiplatelets are useful! PRO.** 4856
– E. Messas (Paris, FR)
- 08:50 **Lower extremities artery disease: antiplatelets are useful! CON.** 4857
– G. Fowkes (Edinburgh, UK)
- 09:10 **Lower extremities artery disease: antiplatelets are useful! Further arguments and conclusion.** 4858
– M. Bjorck (Uppsala, SE)
- 09:15 **Revascularisation for claudicants, the evidence is out there! PRO.** 4859
– M. Brodmann (Graz, AT)
- 09:35 **Revascularisation for claudicants, the evidence is out there! CON.** 4860
– M. Venermo (Helsinki, FI)
- 09:55 **Revascularisation for claudicants, the evidence is out there! - Further arguments and conclusion.** 4861
– C. Vlachopoulos (Athens, GR)

08:30–10:00 | Oslo - Village 7

RISK AND MANAGEMENT OF PREGNANCY IN WOMEN WITH CARDIAC DISEASE

Expert Advice

Chairperson(s): J. De Backer (Ghent, BE); J.W. Roos-Hesselink (Rotterdam, NL)

- 08:30 **Pulmonary hypertension in pregnant women.** 4862
– M. Ladouceur (Paris, FR)
- 08:52 **Left ventricular outflow tract obstruction during pregnancy.** 4863
– S. Orwat (Münster, DE)
- 09:15 **Pregnancy in women with Fontan circulation.** 4864
– M. Cauldwell (London, UK)
- 09:37 **Pregnancy in women with systemic right ventricle.** 4865
– P.G. Pieper (Groningen, NL)



08:30–10:00 | Rabat - Village 7

CONTEMPORARY MANAGEMENT OF CHRONIC THROMBOEMBOLIC PULMONARY HYPERTENSION

Symposium

Joint with the European Association for Cardio-Thoracic Surgery

Chairperson(s): M. Humbert (Le Kremlin-Bicêtre, FR); P.H. Kolh (Liège, BE)

- 08:30 **Pathobiology and clinical presentation of chronic thromboembolic pulmonary hypertension.** 4866
– I.M. Lang (Vienna, AT)
- 08:52 **Medical therapy of chronic thromboembolic pulmonary hypertension.** 4867
– A. Manes (Bologna, IT)
- 09:15 **Surgery for chronic thromboembolic pulmonary hypertension.** 4868
– M. Delcroix (Leuven, BE)
- 09:37 **Endovascular treatment options in patients with chronic thromboembolic pulmonary hypertension.** 4869
– O. Takeshi (Osaka, JP)

08:30–10:00 | Bucharest - Village 8

 Ask a Question

CONTROVERSIES IN THE MANAGEMENT OF ACUTE CORONARY SYNDROMES

Symposium

Joint with the Interamerican Society of Cardiology

Chairperson(s): G. Restrepo (Medellin, CO); E. Swahn (Linköping, SE)

- 08:30 **ACS and heart failure: percutaneous/mechanical support.** 4870
– D.H. Delgado (Toronto, CA)
- 08:52 **ACS and heart failure: timing and revascularisation strategy.** 4871
– A.S. Segev (Tel Hashomer, IL)
- 09:15 **Aortic stenosis and concomitant ACS: surgery or TAVI.** 4872
– P. Urena (Santo Domingo, DO)
- 09:37 **Mechanical complications of ACS: management decisions.** 4873
– H. Moellmann (Bad Nauheim, DE)

08:30–10:00 | Tripoli - Village 8


INCREASING THE AWARENESS FOR THROMBOSIS: WORLDWIDE CHALLENGES AND GLOBAL INITIATIVES

Symposium

Chairperson(s): B. Rocca (Rome, IT); J. Weitz (Hamilton, CA)

- 08:30 **Global disease burden versus awareness of thrombosis: high versus low.** 4874
– G. Raskob (Oklahoma City, US)
- 08:52 **Hospital-associated venous thromboembolism: advances in risk assessment and prevention.** 4875
– B.J. Hunt (London, UK)
- 09:15 **Evolution and implementation of the Guidelines in the management of venous thromboembolism.** 4876
– S.V. Konstantinides (Mainz, DE)
- 09:37 **Stroke prevention in atrial fibrillation: recent achievements and future directions.** 4877
– R. De Caterina (Chieti, IT)

08:30–10:00 | Lisbon - Village 9

 Ask a Question

HEART FAILURE AND DIABETES: A TREACHEROUS COMBINATION

Advances in Science

Chairperson(s): L. Ryden (Stockholm, SE); D. Kahali (Kolkata, IN)

- 08:30 **State of the Art: glucose-lowering drugs and cardiovascular outcomes.** 4878
– S.D. Anker (Berlin, DE)
- 08:48 **Heart failure with mid range ejection fraction, characteristics and prognosis in patients with and without type 2 diabetes.** 4879
– I. Johansson, U. Dahlstrom, M. Edner, P. Nasman, L. Ryden, A. Norhammar (Stockholm and Linköping, SE)
- 09:06 **How does diabetes affect iron status in patients with heart failure?** 4880
– M. Drozd, M. Kasztura, K. Wegrzynowska, P. Rozentryt, J. Nowak, L. Polonski, J. Malyszko, E. Koc-Zorawska, W. Banasiak, P. Ponikowski, E.A. Jankowska (Wroclaw, Zabrze and Bialystok, PL)
- 09:24 **Empagliflozin reduces mortality in analyses adjusted for control of blood pressure, low density lipoprotein cholesterol and HbA1c over time.** 4881
– B. Zinman, C. Mathieu, S. Kaspers, M. Mattheus, H.J. Woerle, D. Fitchett (Toronto, CA; Leuven, BE; Ingelheim am Rhein, DE)
- 09:42 **Heart failure and diabetes: lessons from the ESC long-term registry.** 4882
– O. Chioncel (Bucharest, RO)

08:30–10:00 | Warsaw - Village 9

ATRIAL FIBRILLATION OR LEFT ATRIAL DISEASE?

Symposium

Chairperson(s): M. Glikson (Ramat Gan, IL); E. O'Meara (Montreal, CA)

08:30	Atrial fibrillation: electrical phenomenon or left atrial disease?	4883
	– F. Ruschitzka (Zurich, CH)	
08:52	Lone atrial fibrillation does not exist!	4884
	– I.C. Van Gelder (Groningen, NL)	
09:15	Drug therapy and atrial fibrillation in heart failure.	4885
	– N. Ajmone Marsan (Leiden, NL)	
09:37	Use of CRT in heart failure and atrial fibrillation.	4886
	– C. Leclercq (Rennes, FR)	

10:00–11:00 | Dublin - Village 1

ESC GENERAL ASSEMBLIES

Special Event

Open to all ESC members of the ESC National Cardiac Societies, ESC Associations, ESC Working Groups and ESC Councils.

Moderated Posters are on display from 08:30 to 12:30 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (10:05–10:55), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

10:05–10:55 | Moderated poster station - Poster Area

NOVELTIES IN LEFT ATRIAL INTERVENTIONS

Moderated Posters

Chairperson(s): F. Nietlispach (Zurich, CH); S. Fateh-Moghadam (Tübingen, DE)

	Acute hemodynamic and echocardiographic effects of percutaneous ventricular restoration therapy using the Parachute device in patients with severe ischemic cardiomyopathy: a single center experience.	P4887
	– S. Reith, M. Burgmaier, E. Altiok, N. Marx, W. Kaestner (Aachen, DE)	
	Right ventricular papillary muscles approximation for functional tricuspid regurgitation treatment - in-vitro feasibility study.	P4888
	– M. Jaworek, F. Lucherini, G. Gelpi, C. Romagnoni, C. Antona, G.B. Fiore, R. Vismara (Milan, IT)	
	Insertable cardiac monitor in older patients candidates to percutaneous PFO closure. Preliminary results of a perspective registry study.	P4889
	– P. Scacciatella, M. Jorfida, P. Omede, C. Budano, D. Castagno, D. Zema, M. Gagliardi, L.M. Biava, I. Meynet, F. Gaita (Turin and Rivoli, IT)	
	Arrhythmias after transcatheter closure of persistent foramen ovale are related to the type and size of the implanted device.	P4890
	– M. Komar, T. Przewlocki, P. Wilkolek, B. Sobien, N. Libiszewska, L. Tomkiewicz-Pajak, M. Olszowska, G. Kopec, P. Podolec (Krakow, PL)	
	Procedural safety and long-term clinical outcome of left atrial appendage closure according to predefined stroke risk.	P4891
	– J.D. Haener, M. Fuerholz, T. Cherni, K. Koskinas, R. Piccolo, S. Streit, F. Praz, S. Shakir, A. Attinger-Toller, F. Nietlispach, M. Valgimigli, B. Meier, S. Windecker, S. Gloekler (Bern and Zurich, CH)	

10:05–10:55 | Moderated poster station - Poster Area

BIG DATA

Moderated Posters

Chairperson(s): G. Krstacic (Zagreb, HR); E. Smajic (Tuzla, BA)

- Service delivery and 1-year mortality of patients from an Acute Coronary Syndrome e-Registry.** P4892
 – R. Zhang, I. Findlay, T. Morris, C. Berry, A. McConnachie, C. Berry (Glasgow and Luton, UK)
- A scheme based on ICD-10 diagnoses and drug prescriptions to stage chronic kidney disease severity in healthcare administrative records.** P4893
 – L. Friberg, A.G. Gasparini, J.J.C. Carrero (Stockholm, SE)
- Completeness and correctness of myocardial infarction diagnoses in a medical quality register and an administrative health register.** P4894
 – R.E. Govatsmark, I. Janszky, S.A. Slordahl, M. Ebbing, B. Grenne, R. Wiseth, E. Vesterbekkmo, K.H. Bonaa (Trondheim and Bergen, NO)
- Current use and misuse of troponin measurements form a large cohort: results of big data analysis.** P4895
 – C. Meune, F.X. Goudot, N. Garnier, N. Dubois, G. Copin, N. Charnaux, M. Schwoerer, V. Bonnard, C. Gobeaux, E. Sorbets (Bobigny, Montbonnot, Saint-Malo, Meylan and Paris, FR)
- Automated classification of health apps into medical specialties by using text analytics.** P4896
 – A. Paglialonga, M. Riboldi, G. Tognola, E.G. Caiani (Milan, IT)
- Effectiveness of troponin risk stratification in real life population with chest pain discharge from emergency room.** P4897
 – A. Di Chiara, F. Valent, L. Zanier (Udine, IT)
- Current use and misuse of natriuretic peptides form a large cohort: results of big data analysis.** P4898
 – C. Meune, F.X. Goudot, N. Garnier, N. Dubois, G. Copin, N. Charnaux, A. Szostek, V. Bonnard, C. Gobeaux, E. Sorbets (Bobigny, Montbonnot, Saint-Malo, Meylan and Paris, FR)

10:05–10:55 | Moderated poster station - Poster Area

FRESH LOOK AT HEART FAILURE

Moderated Posters

Chairperson(s): J. Drozd (Grabina, PL); R.H. Strasser (Dresden, DE)

- Do beta-blockers improve one-year survival in heart failure patients with atrial fibrillation? Results from the ESC-HF Registry.** P4899
 – K. Ozieranski, A. Kaplon-Cieslicka, P. Balsam, A. Tyminska, A. Wancerz, M. Peller, M. Marchel, M.G. Crespo-Leiro, A.P. Maggioni, J. Drozd, K.J. Filipiak, G. Opolski (Warsaw and Lodz, PL; La Coruña, ES; Florence, IT)
- Heart failure subtypes and thromboembolic risk in patients with atrial fibrillation in the PREFER in AF registry.** P4900
 – J.M. Siller-Matula, L. Pecan, G. Patti, M. Lucerna, P. Kirchhof, R. De Caterina (Vienna, AT; Prague, CZ; Rome and Chieti, IT; Munich, DE; Birmingham, UK)
- Association between serum potassium and clinical outcomes in UK patients with heart failure.** P4901
 – L. Qin, P. McEwan, M. Evans, K. Bergenheim, L. Horne, S. Grandy (Gaithersburg, US; Singleton Park and Cardiff, UK; Gothenburg, SE)
- Presence of micro- and macroalbuminuria and association with cardiac mechanics in type 2 diabetes.** P4902
 – P.G. Jorgensen, T. Biering-Sorensen, R. Mogelvang, T. Fritz-Hansen, T. Vilsboll, P. Rossing, J.S. Jensen (Hellerup and Copenhagen, DK)
- Empagliflozin reduces heart failure irrespective of control of blood pressure, low density lipoprotein cholesterol and HbA1c.** P4903
 – D. Fitchett, J. McKnight, J. Lee, J. George, M. Mattheus, H.J. Woerle, S.E. Inzucchi (Toronto, CA; Edinburgh, UK; Ingelheim am Rhein, DE; New Haven, US)
- Multi-ethnic comparisons of diabetes in heart failure with reduced ejection.** P4904
 – J. Yap, L. Cooper, W.T. Tay, T.H.K. Teng, C. Narasimhan, W. Shimizu, S. Zhang, C.I. Hung, B. Siswanto, H.B. Liew, E.B. Reyes, C.M. Yu, S. Park, T. Ngarmukos, W.E. Kraus, D.J. Whellan, I.L. Pina, A.M. Richards, M.R. MacDonald, L.H. Ling, I.S. Anand, C.M. O'Conner, R.J. Mentz, C.S.P. Lam (Singapore, SG; Duke, Minneapolis and Falls Church, US; Hyderabad, IN; Tokyo, JP; Beijing, CN)
- Short term effect of SGLT2 inhibitor, Dapagliflozin added on to standard therapy in decompensated heart failure patients with diabetes mellitus.** P4905
 – M. Nakagaito, S. Joho, R. Ushijima, M. Nakamura, T. Hirai, K. Kinugawa (Toyama, JP)

10:05–10:55 | Moderated poster station - Poster Area

TIME TO GO TO REHAB – BEST OF CARDIAC REHABILITATION

Moderated Posters

Chairperson(s): G. Fletcher (Jacksonville, US); H. Voller (Rudersdorf, DE)

- Impact of cardiac rehabilitation in obese patients with coronary artery disease.** P4906
 – I. Silveira, M.J. Sousa, B. Brochado, A. Barreira, S. Magalhaes, S. Viamonte, J. Preza-Fernandes, A. Luz, S. Torres (Porto, PT)
- Do patients with heart failure have equal response of endothelial function to exercise training: preserved vs reduced ejection fraction?** P4907
 – M. Deljanin Ilic, S. Ilic, G. Kocic, R. Pavlovic, D. Simonovic, D. Petrovic, S. Stojanovic, D. Marinkovic (Niska Banja and Niš, RS)
- Determinants of endothelial function and claudication distance change in patients with peripheral artery disease (PAD) undergoing supervised treadmill training program (STTP).** P4908
 – R. Januszek, P. Mika, P. Maga, R. Nowobilski, W. Nowak, D. Kloska, A. Kusienicka, A. Jozkowicz, J. Dulak, R. Nizankowski (Krakow, PL)
- Gender differences in achieving the minimum clinically important difference in the incremental shuttle walk test in coronary artery bypass graft patients.** P4909
 – J. Alotaibi, P. Doherty (York, UK)
- Determinants of participation and risk factor control in coronary patients attending cardiovascular rehabilitation programme: Results from EUROASPIRE IV survey.** P4910
 – K. Kotseva, D. De Bacquer, D. Wood (London, UK; Ghent, BE)
- Cardiac rehabilitation: referral, participation, and mortality following elective PCI.** P4911
 – J. Klein, R. Farkash, N. Raviv Abeles, A. Karawan, A. Kirschner, Z. Mizrach, R. Aran, J. Balkin, M. Klutstein, D. Tzivoni, G. Weisz (Jerusalem, IL)
- Swedish cardiac rehabilitation programmes; a descriptive nationwide analysis - the perfect CR study.** P4912
 – H. Ogmundsdottir Michelsen, E. Hagstrom, I. Sjolín, M. Schlyter, A. Kiessling, C. Held, E. Hag, L. Nilsson, A. Schiopu, M.J. Zaman, M. Leosdottir (Malmö, Uppsala, Stockholm, Jönköping and Linköping, SE; Norfolk, UK)

10:05–10:55 | Moderated poster station - Poster Area

VASCULAR REMODELLING

Moderated Posters

Chairperson(s): A. Haverich (Hannover, DE); D. Sedding (Hannover, DE)

- Adventitial cytokine production is critical for negative vascular remodelling.** P4913
 – J. Dutzmann, J.M. Daniel, L. Korte, F. Kloss, K.J. Croce, S. Offermanns, J. Bauersachs, D.G. Sedding (Hannover and Bad Nauheim, DE; Boston, US)
- LNA-based miR92a inhibition induces therapeutic neovascularization in a pig model of chronic myocardial ischemia.** P4914
 – R. Hinkel, K. Klett, A. Fischer, A. Bonauer, E. Van Rooij, A. Zeiher, S. Dimmeler, C. Kupatt (Munich and Frankfurt, DE; Utrecht, NL)
- Vasorin regulates smooth muscle cell differentiation and neointima formation.** P4915
 – L. Korte, R. Widmer-Teske, K. Donde, J. Dutzmann, J.M. Daniel, J. Bauersachs, D. Sedding (Hannover, DE)
- Adipolin/CTRP12 acts as a biomarker of coronary artery disease and protects against pathological vascular remodeling.** P4916
 – H. Ogawa, K. Ohashi, R. Shibata, M. Ito, N. Otaka, H. Kawanishi, S. Yamaguchi, T. Murohara, N. Ouchi (Nagoya, JP)
- MicroRNA-374b contributes coronary artery stenosis via inducing endothelial-mesenchymal transition by targeting MAPK7 signaling.** P4917
 – B. Vanchin, E. Offringa, J.A.J. Moonen, M.G.L. Brinker, M.C. Harmsen, G. Krenning (Groningen, NL)
- PCSK6 is a key protease in the control of smooth muscle cell function in vascular remodelling.** P4918
 – L. Matic, U. Rykaczewska, S. Rohl, A. Razuvaev, M. Lengquist, M. Sabater-Lleal, S. Van Der Laan, C.L. Miller, J.H. Lindeman, G. Paulsson-Berne, T. Quertermous, G. Pasterkamp, A. Hamsten, P. Eriksson, U. Hedin (Stockholm, SE; Utrecht and Leiden, NL; Stanford, US)
- Serotonin signaling through the 5-HT1B receptor and NADPH oxidase 1 in pulmonary arterial hypertension.** P4919
 – K.Y. Hood, K.M. Mair, A.P. Harvey, A.C. Montezano, R.M. Touyz, M.R. MacLean (Glasgow, UK)

10:05–10:55 | Moderated poster station - Poster Area

WHAT IS NEW IN VENOUS THROMBOEMBOLISM?

Moderated Posters

Chairperson(s): F.A. Klok (Leiden, NL); J.S.R. Gibbs (London, UK)

Long-term effects of unprovoked venous thromboembolism on mortality and major cardiovascular events. P4920

– W.T. Chang, C.T. Liao, C.S. Hong, C.L. Chang, C.H. Ho, Z.C. Chen (Tainan, TW)

Comparative safety and effectiveness of rivaroxaban and apixaban in patients with venous thromboembolism - a Danish nationwide study. P4921

– C. Sindet-Pedersen, L. Staerk, J. Langtved Pallisgaard, T. Alexander Gerds, J.S. Berger, C. Torp-Pedersen, G. Gislason, J. Bjerring Olesen (Hellerup, Copenhagen and Aalborg, DK; New York, US)

Validation of the prognostic impact of copeptin in normotensive pulmonary embolism in a European multicentre study. P4922

– K. Hellenkamp, P. Pruszczyk, D. Jimenez, A. Wyzgal, D. Barrios, M. Ciurzynski, R. Morillo, L. Hobohm, K. Keller, K. Kurnicka, M. Kostrubiec, R. Wachter, G. Hasenfuss, S. Konstantinides, M. Lankeit (Göttingen, Mainz and Berlin, DE; Warsaw, PL; Madrid, ES)

A novel experimental in vivo model of acute pulmonary embolism. P4923

– J. Schultz, I.L. Gade, A. Andersen, S. Ringgaard, B. Kjaergaard, J.E. Nielsen-Kudsk (Aarhus and Aalborg, DK)

The YEARS algorithm for suspected pulmonary embolism leads to much shorter diagnostic turnaround time than conventional algorithms. P4924

– F.A. Klok, C.E.A. Dronkers, L.M. Van Der Pol, T. Van Der Hulle, C. Tromeur, C. Heringhaus, A.T.A. Mairuhu, M.V. Huisman (Leiden and The Hague, NL)

Recurrent venous thromboembolism and major bleeding in patients treated with rivaroxaban or warfarin for venous thromboembolism in routine practice. P4925

– C. Coleman, T.J. Bunz (Storrs, US)

Rivaroxaban prevents the development of chronic thromboembolic pulmonary hypertension in mice- Novel beneficial effects of the FXa inhibitor- P4926

– M.E. Al-Mamun, K. Satoh, T. Satoh, N. Yaoita, M.A.H. Siddique, N. Kikuchi, J. Omura, R. Kurosawa, S. Sunamura, M. Nogi, T. Ohtsuki, H. Shimokawa (Sendai, JP)

10:05–10:55 | Moderated poster station - Poster Area

SYSTEMIC AND ORGAN ADAPTATION IN HYPERTENSION

Moderated Posters

Chairperson(s): R.E. Schmieder (Erlangen, DE); R. Zweiker (Graz, AT)

Serum proatrial and B-type natriuretic peptide do not increase with higher systolic blood pressure in obese men despite evidence of greater left atrial size and higher left ventricular mass. P4927

– C.L. Asferg, U.B. Andersen, A. Linneberg, M. Christiansen, J.P. Goetze, J.L. Jeppesen (Glostrup and Copenhagen, DK)

Doppler indexes of left ventricular diastolic function in relation to hemodynamic load components in a general population. P4928

– N. Cauwenberghs, J. Knez, J. D'hooge, L. Thijs, J.A. Staessen, T. Kuznetsova (Leuven, BE; Ljubljana, SI)

Femoral pulse wave velocity relates to eccentric left ventricular remodeling in masked hypertension: The African-PREDICT study. P4929

– R. Kruger, J.M. Van Rooyen, C.M.T. Fourie, H.W. Huisman, S. Botha, A.E. Schutte (Potchefstroom, ZA)

Hypertension is associated with subclinical left ventricular dysfunction in ischemic stroke survivors (the NOR-SYS study). P4930

– S. Saeed, U. Waje-Andreassen, K. Matre, A. Fromm, N. Pristaj, H. Naess, E. Gerds (Bergen, NO)

Significant impact of type 2 diabetes mellitus on the association of arterial stiffness with left ventricular hypertrophy and left ventricular diastolic function. P4931

– Y. Ohno, T. Miyoshi, T. Ono, K. Nakamura, H. Morita, H. Ito (Okayama, JP)

Elevated blood pressure and risk of mitral regurgitation. P4932

– K. Rahimi, H. Mohseni, C.M. Otto, N. Conrad, J. Tran, M. Woodward, T. Dwyer, S. MacMahon (Oxford, UK; Washington, US)

10:05–10:55 | Moderated poster station - Poster Area

SUDDEN CARDIAC DEATH AND ICD

Moderated Posters

Chairperson(s): E. Hoffmann (Munich, DE); M. Rivero-Ayerza (Genk, BE)

Comprehensive familial evaluation in Sudden Arrhythmic Death Syndrome (SADS) families leads to significant yields of Brugada syndrome (BrS). P4933

– E. Papatheodorou, M. Papadakis, G. Mellor, H. Raju, S. Wasim, N. Edwards, B. Ensam, Y. Wijeyeratne, D. Cole, V. Batchvarov, M. Tome-Esteban, T. Homfray, M.N. Sheppard, S. Sharma, E.R. Behr (London, UK)

Impact of emergency medical services response time on benefits of bystander-initiated cardiopulmonary resuscitation in patients with out-of-hospital cardiac arrest. P4934

– Y. Goto, A. Funada, Y. Goto (Kanazawa and Komatsu, JP)

Coronary artery disease underlies most sports-related sudden cardiac arrest in the general population. P4935

– A. Sharifzadehgan, N. Karam, W. Bougouin, V. Waldmann, F. Dumas, K. Narayanan, D. Jost, B. Ludes, N. Aissaoui, F. Beganton, L. Lamhaut, N. Deye, A. Cariou, X. Jouven, E. Marijon (Paris, FR)

Cardiac aetiologies underlying sudden cardiac arrest in the community. P4936

– V. Waldmann, W. Bougouin, A. Sharifzadehgan, N. Karam, V. Algalarrondo, E. Gandjbakhch, K. Narayanan, F. D, B. Ludes, L. Lamhaut, N. Lellouche, F. Extramiana, A. Cariou, E. Marijon, X. Jouven (Paris, Clamart and Créteil, FR)

Device orientation of a leadless pacemaker and subcutaneous implantable cardioverter-defibrillator in canine and human subjects and the effect on device-device communication. P4937

– A.F.B.E. Quast, F.V.Y. Tjong, B.E. Koop, R.E. Knops, M.C. Burke (Amsterdam, NL; Minneapolis, US)

Cardioverter-defibrillator does not improve survival among patients with dilative cardiomyopathy and reduced LV ejection fraction: Data from real-world registry EVITA-HF - The answer to DANISH. P4938

– C. Jilek, T. Lewalter, D. Andresen, J. Brachmann, C.A. Perings, K.H. Kuck, S. Schneider, M. Hochadel, J. Senges (Munich, Berlin, Coburg, Lünen, Hamburg and Ludwigshafen, DE)

Inappropriate shock reduction with PARAD+ rhythm arrhythmia discrimination. Results from the ISIS-ICD study. P4939

– R. Ruiz Granell, V. Dovellini Emilio, A. Dompnier, E. Garcia Campo, J.S. Hermida, P. Ritter, A. Olivier, J.C. Deharo (Valencia and Vigo, ES; Florence, IT; Pringy, Amiens, Bordeaux, Clamart and Marseille, FR)

10:05–10:55 | Moderated poster station - Poster Area

CAD: ROLE OF INFLAMMATION AND IMMUNITY

Moderated Posters

Chairperson(s): F. Andreotti (Rome, IT); G. Vilahur Garcia (Barcelona, ES)

Infarct size in a rat model of STEMI is reduced by interleukin-6 trans-signalling blockade using sgp130fc but not an anti-IL6R monoclonal antibody. P4940

– M. George, D. Stuckey, V. Taylor, A. Hingorani, D. Gilroy (London, UK)

Impact of LR11 as residual risk on long term clinical outcomes in patients with coronary artery disease treated with statin after first percutaneous coronary intervention. P4941

– N. Takahashi, M. Ogita, K. Miyauchi, H. Wada, R. Naito, H. Konishi, S. Tsuboi, T. Dohi, T. Kasai, S. Okazaki, K. Isoda, S. Suwa, H. Bujo, H. Daida (Izunokuni, Tokyo and Chiba, JP)

Activation of regulatory T cells in patients with myocardial infarction endows them with enhanced suppressive ability and pro-inflammatory phenotype and function. P4942

– I.E. Dumitriu, S. Kaur, S. Dinkla, J.C. Kaski (London, UK)

Inflammasome induced endothelial microparticles impair cellular function in human coronary arterial smooth muscle cells. P4943

– P. Pfeifer, A. Ackerschott, S.K. Ebert, J. Jehle, M. Steinmetz, B.S. Franklin, E. Latz, F. Jansen, G. Nickenig, N. Werner, S. Zimmer (Bonn, DE)

Markers of gut leakage are associated with cardiovascular events in a high-risk population. P4944

– A.O. Awoyemi, M. Troseid, S. Solheim, H. Arnesen, I. Seljeflot (Oslo, NO)

Circulating interleukin-8 levels are associated with myocardial injury, left ventricular function and future clinical adverse events in patients with ST-elevation myocardial infarction. P4945

– C. Shetelig, S. Limalanathan, I. Seljeflot, P. Hoffmann, J.M. Gran, J. Eritsland, G.Ø. Andersen (Oslo and Feiring, NO)

Prognostic impact of nutritional status assessed by controlling nutritional status score in patients with stable coronary artery disease undergoing percutaneous coronary intervention. P4946

– H. Wada, T.D. Dohi, K.M. Miyauchi, S.D. Doi, R.N. Naito, H.K. Konishi, S.T. Tsuboi, M.O. Ogita, T.K. Kasai, S.O. Okazaki, K.I. Isoda, S.S. Suwa, H.D. Daida (Tokyo, Chiba and Izunokuni, JP)

10:10–10:30 | Spotlight Stage

Today on ESC TV

MEET THE TRIALISTS – CAPTAF

Meet the Trialists

Chairperson: N. Marrouche (Salt Lake City, US)

10:10 **Catheter Ablation compared with optimized Pharmacological Therapy for Atrial Fibrillation, a randomized multicentre study of quality of life and implantable cardiac monitoring after 12 month follow-up.** 4947

– C. Blomstrom-Lundqvist (Uppsala, SE)

10:10–10:30 | Dali - The Hub

MEET THE TRIALISTS – EMPATHY

Meet the Trialists

Chairperson(s): E. Prescott (Copenhagen, DK)

- | | | |
|-------|--|------|
| 10:10 | Does intensive treat-to-target LDL-C lowering therapy using statin in patients of diabetic retinopathy reduce cardiovascular events? The EMPATHY study. | 4948 |
| | – H. Itoh (Tokyo, JP) | |

10:10–10:50 | Agora 1 - Agora

NEW PRACTICE PATTERNS IN CLINICAL CARDIOLOGY

Special Session

Chairperson(s): D. Berman (Los Angeles, US); P. Perrone-Filardi (Naples, IT)

- | | | |
|-------|--|------|
| 10:10 | A women's clinic for heart disease. | 4949 |
| | – C.N. Bairey Merz (Los Angeles, US) | |
| 10:23 | Cardio-oncology. | 4950 |
| | – F. Mookadam (Scottsdale, US) | |
| 10:36 | How to run a heart valve clinic. | 4951 |
| | – P.A. MacCarthy (London, UK) | |

10:15–10:45 | Gaudi - The Hub

MANAGING THE PATIENT WITH ATRIAL FIBRILLATION (AF) REQUIRING CARDIAC INTERVENTION

Satellite Symposium - Experts on the Spot

Sponsored by Bayer AG

Chairperson(s): R. Cappato (Rozzano, IT)

- | | | |
|-------|---|------|
| 10:15 | Opening remarks - Managing the patient with AF requiring cardiac intervention. | 4952 |
| | – R. Cappato (Rozzano, IT) | |
| 10:20 | Managing the patient undergoing coronary stenting. | 4953 |
| | – R. Mehran (New York, US) | |
| 10:30 | Managing the patient undergoing cardioversion. | 4954 |
| | – S.H. Hohnloser (Frankfurt, DE) | |
| 10:40 | Closing remarks - Managing the patient with AF requiring cardiac intervention. | 4955 |
| | – R. Cappato (Rozzano, IT) | |

Please refer to the Satellite Symposium scheduled on Monday 28 August, 12:45–13:45 in Chisinau - Village 4.

10:15–10:45 | Goya - The Hub

ENGAGING PATIENTS TO IMPROVE TREATMENT ADHERENCE

Satellite Symposium - Experts on the Spot

Sponsored by Sanofi and Regeneron

Chairperson(s): J. Robinson (Iowa City, US)

- | | | |
|-------|--|------|
| 10:15 | Introduction - Patient empowerment in cardiology. | 4956 |
| | – J. Robinson (Iowa City, US) | |
| 10:21 | Behavioral change as a fundamental driver to treatment adherence. | 4957 |
| | – H. Bosworth (Durham, US) | |
| 10:29 | The importance of dialogue between patients and physicians. | 4958 |
| | – M.-P. Schneider (Lausanne, CH) | |

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 18:30–20:00 in Bucharest - Village 8.

10:15–10:45 | Miro - The Hub

ENGAGING WITH NON-VITAMIN K ANTAGONIST ORAL ANTICOAGULANTS: EXPERT GUIDANCE ON DIFFICULT-TO-TREAT PATIENTS

Satellite Symposium - Experts on the Spot

Sponsored by DAIICHI SANKYO EUROPE GmbH

Chairperson(s): R. De Caterina (Chieti, IT)

- | | | |
|-------|---|------|
| 10:15 | Welcome and introduction - Engaging with non-vitamin K antagonist oral anticoagulants: expert guidance on difficult-to-treat patients. | 4959 |
| | – R. De Caterina (Chieti, IT) | |
| 10:20 | Anticoagulation in high-risk populations. | 4960 |
| | – J. Steffel (Zurich, CH) | |
| 10:25 | Cancer and thrombosis: insights from ENGAGE AF-TIMI 48 and Hokusai-VTE trials. | 4961 |
| | – J.L. Zamorano Gomez (Madrid, ES) | |
| 10:30 | Panel discussion and conclusions - Engaging with non-vitamin K antagonist oral anticoagulants: expert guidance on difficult-to-treat patients. | 4962 |
| | – R. De Caterina (Chieti, IT), J. Steffel (Zurich, CH), J.L. Zamorano Gomez (Madrid, ES) | |

Please refer to the Satellite Symposium scheduled on Sunday 27 August, 12:45–13:45 in Oslo - Village 7.

10:15–10:45 | Picasso - The Hub

ORAL ANTICOAGULATION AND THROMBOSIS: MULTIDISCIPLINARY PERSPECTIVES ON PATIENT MANAGEMENT

Satellite Symposium - Experts on the Spot

Sponsored by Bristol-Myers Squibb and Pfizer Alliance

Chairperson(s): A.T. Cohen (London, UK)

- 10:15 **Oral anticoagulation and thrombosis: multidisciplinary perspectives on patient management.** 4963
 – A.T. Cohen (London, UK), E. Hylek (Boston, US), G. Agnelli (Perugia, IT)

Please refer to the Satellite Symposium scheduled on Monday 28 August, 12:45–13:45 in Oslo - Village 7.

10:35–10:55 | Spotlight Stage

Today on ESC TV

MEET THE TRIALISTS – HPS3/TIMI55-REVEAL

Meet the Trialists

Chairperson: J. Chapman (Paris, FR)

- 10:35 **Clinical effects of anacetrapib in people with established vascular disease: Results of the Randomized Evaluation of the Effects of Anacetrapib through Lipid-modification (HPS3/TIMI55-REVEAL) trial.** 4964
 – M.J. Landray (Oxford, UK)

10:35–10:55 | Dali - The Hub

Today on ESC TV

MEET THE TRIALISTS – PRECISION-ABPM

Meet the Trialists

Chairperson: S. Solomon (Boston, US)

- 10:35 **The PRECISION-ABPM (Prospective Randomized Evaluation of Celecoxib Integrated Safety versus Ibuprofen or Naproxen Ambulatory Blood Pressure Measurement) - Trial.** 4965
 – F. Ruschitzka (Zurich, CH)

11:00–12:30 | Barcelona - Main Auditorium

HOT LINE: LATE-BREAKING REGISTRY RESULTS 1

Registry Session

Chairperson(s): S.D. Kristensen (Aarhus N, DK); L. Mauri (Boston, US)

- 11:00 **Fruit, vegetable, and legume intake and cardiovascular disease and deaths: The Prospective Urban Rural Epidemiology (PURE) study of 135,000 people in 18 countries.** 4966
 – A. Mente (Hamilton, CA)
- 11:15 **Dietary fats are protective but carbohydrates are harmful: First results of the PURE nutrition study on 135,000 people from 18 countries in 5 continents.** 4967
 – M. Dehghan (Hamilton, CA)
- 11:30 **Preexisting chronic kidney disease increases the risk of triggering acute myocardial infarction due to Asian dust exposure.** 4968
 – S. Kojima (Kumamoto, JP)
- 11:45 **An international external validation study of the 2014 European Society of Cardiology guideline on sudden cardiac death prevention in hypertrophic cardiomyopathy.** 4969
 – C. O'Mahony (London, UK)
- 12:00 **Clopidogrel or Ticagrelor in Acute Coronary Syndrome Patients Treated With Newer-Generation Drug-Eluting Stents: CHANGE DAPT.** 4970
 – C. von Birgelen (Enschede, NL)
- 12:15 **Pretreatment with P2Y₁₂ Receptor Antagonists Is Not Associated with Improved Clinical Outcomes in STEMI: A report from SCAAR.** 4971
 – E. Omerovic (Gothenburg, SE)



11:00–12:30 | Spotlight Stage

STEMI

Live in the box

Live procedure recorded from the Barts Heart Center, St Bartholomew's Hospital, London

Chairperson(s): M. Haude (Neuss, DE); M.C. Morice (Massy, FR); C. Tamburino (Catania, IT)

11:00	STEMI - Introduction. – M. Haude (Neuss, DE)	4972
11:05	PCI for STEMI – How to do it right. – S. James (Uppsala, SE)	4973
11:20	PCI for STEMI – My worst complications and some of my solutions. – D. Dudek (Krakow, PL)	4974
11:35	STEMI - Live in the box. – A. Baumbach (London, UK)	4975
12:15	STEMI - Discussion.	4976
12:25	STEMI - Conclusion. – C. Tamburino (Catania, IT)	4977

11:00–12:30 | Dali - The Hub

Today on ESC TV

Vote & Ask a Question

ASPIRIN FOR LIFE

Great Debate

Chairperson(s): E. Braunwald (Boston, US); R. Mehran (New York, US)

11:00	Positioning of the topic - Coronary artery disease: the aspirin story. – C. Patrono (Rome, IT)	4978
11:15	Aspirin for life - PRO. – D.L. Bhatt (Newton, US)	4979
11:35	Aspirin for life - CON. – M. Valgimigli (Bern, CH)	4980
11:55	Aspirin for life - Rebuttal PRO. – D.L. Bhatt (Newton, US)	4981
12:00	Aspirin for life - Rebuttal CON. – M. Valgimigli (Bern, CH)	4982
12:05	Aspirin for life - Moderated discussion.	4983
12:20	Aspirin for life - Chairperson conclusion. – E. Braunwald (Boston, US)	4984

11:00–12:30 | Gaudi - The Hub

UNIQUE SITUATIONS IN THE MANAGEMENT OF VENTRICULAR ARRHYTHMIAS – FINDING SHELTER FROM THE STORM

Clinical Cases

Chairperson(s): J. Plasek (Ostrava, CZ); S.M.A. Sohaib (London, UK)

11:00	Heart team in electrical storm treatment. – S. Garkina (St. Petersburg, RU)	4985
11:12	LQTS type 7 evaluation in patient presenting with neurological signs: weakness and periodic paralyses of lower extremities. – A. Rakhteenko (Moscow, RU)	4986
11:25	Ventricular tachycardia critical isthmus detection through pacemapping technique guided by a robotic magnetic navigation system. – A. Battaglia (Vino, IT)	4987
11:38	Bilateral cardiac sympathetic denervation for severe electrical storms in structural heart disease: first European experience. – V. Dusi (Milan, IT)	4988
11:51	Focal arrhythmogenic cardiomyopathy masquerading as RVOT tachycardia: sudden death in a postpartum athlete. – C.J. Miles (London, UK)	4989
12:04	Large hiatal hernia induced left ventricular dyskinesia - a novel cause of ventricular tachycardia. – S. Gnanenthiran (Concord, AU)	4990
12:17	Death by love stone, a dangerous aphrodisiac drug. – M. Lopez Castillo (Madrid, ES)	4991

11:00–12:30 | Goya - The Hub

ADVANCED HEART FAILURE: THE TOUCH AHEAD

Rapid Fire Abstract

- Chairperson(s): D. Milicic (Zagreb, HR); S.M. Shaheen (Cairo, EG)
- 11:00 **Cardiac rotational mechanics in advanced heart failure patients undergoing cardiac assist device implantation predict favorable myocardial functional response.** 4992
– M.J. Bonios, A. Koliopoulou, I. Taleb, R. Larsen, W. Xu, O. Wever-Pinzon, A.G. Kfoury, R. Alharethi, J.N. Nativi, W. Caine, S.H. McKellar, S. Adamopoulos, C.H. Selzman, J.J. Bax, S.G. Drakos (Athens, GR; Salt Lake City, US; Leiden, NL)
 - 11:09 **Preoperative right heart hemodynamics predict right heart failure and early ICU mortality following LVAD implantation.** 4993
– S. Akin, O.I.I. Soliman, R. Muslem, D. Dos Reis Miranda, C.A. Den Uil, A.A. Constantinescu, I. Kardys, A.J.J.C. Bogers, F. Zijlstra, J.J. Brugs, K. Caliskan (Rotterdam, NL)
 - 11:18 **Hemodynamic predictors of mortality in patients undergoing heart transplantation and left ventricular assist device.** 4994
– R. Scarsini, M. Cuman, A. Rossi, G. Pesarini, A. Piccoli, E. Setti, E.G. Milano, A. Forni, C. Vassanelli, F. Ribichini (Verona, IT)
 - 11:27 **Internal validation of tricuspid annulus plane systolic excursion as a mean of acute rejection diagnosis in heart transplant recipients.** 4995
– M. Ruiz Ortiz, S. Rodríguez Diego, D. Mesa Rubio, R. Ortega Salas, J.J. Sanchez Fernandez, E. Martin Dorado, L. Carnero Montoro, A. Lopez Granados, J.M. Arizon Del Prado, M. Pan Alvarez-Ossorio, M. Delgado Ortega (Córdoba, ES)
 - 11:36 **Echocardiographic predictors of right ventricular failure after implantation of a left ventricular assist device.** 4996
– V. Monivas Palomero, S. Vilches Soria, C. Parra Esteban, F. Hernandez Perez, J. Goirgolzarri Artaza, M. Gomez Bueno, J. Segovia Cubero, C.E. Martin Lopez, A. Forteza Gil, A. Gonzalez Roman, L. Alonso Pulpon, S. Mingo Santos (Madrid, ES)
 - 11:45 **Can we predict right ventricular failure after EXCOR implantation using pulmonary pulsatility index?** 4997
– A. Durante Lopez, S. Mingo Santos, V. Monivas Palomero, J.F. Oteo Dominguez, S. Vilches Soria, M. Gomez Bueno, F. Hernandez Perez, J. Goirgolzarri Artaza, L. Alonso Pulpon, J. Segovia Cubero (Madrid, ES)
 - 11:54 **Current use and impact on 30-day mortality of pulmonary artery catheter in cardiogenic shock patients: results from the CardShock Study.** 4998
– M. Rivas Lasarte, J. Sans-Rosello, M. Vila, H. Tolppanen, J. Lassus, M. Lindholm, A. Mebazaa, V.-P. Harjola, A. Sionis (Barcelona, ES; Helsinki, FI; Copenhagen, DK; Paris, FR)
 - 12:03 **Effect of bosentan on allograft right ventricular function and long-term clinical outcomes in heart transplant recipients with severe pulmonary hypertension.** 4999
– J.B. Ivey-Miranda, M. Farrero-Torres, M. Hernandez-Enriquez, A. Garcia-Alvarez, M.A. Castel-Lavilla, E.L. Posada-Martinez, L. Ortega-Paz, F. Perez-Villa (Barcelona, ES)
 - 12:12 **Incidence and current management of left ventricular assist device thrombus.** 5000
– M. Sultan, E. Flores, D. Verma, S. Argarwal, E. Rayyan, A. Loli, M. Cherukuri (Phoenix, US)
 - 12:21 **Hemodynamic profile and outcome from mechanical circulatory support in cardiogenic shock due to end-stage heart failure vs acute myocardial infarction.** 5001
– H.S. Lim (Birmingham, UK)

11:00–12:30 | Miro - The Hub



PERIPARTUM CARDIOMYOPATHY (PPCM) – THE “BIG PICTURE”

Special Session

Organised with the Turkish Society of Cardiology

- Chairperson(s): S. Aytekin (Istanbul, TR); L. Tokgozoglu (Ankara, TR)
- 11:00 **Clinical case.** 5002
– I. Can (Konya, TR)
 - 11:10 **Top ten messages of the latest ESC Guidelines.** 5003
– A. Yildirim (Ankara, TR)
 - 11:25 **Registry and survey information from Turkey: problems and opportunities in improving care for peripartum cardiomyopathy.** 5004
– M. Kayikcioglu (Izmir, TR)
 - 11:45 **New since the last Guidelines: recent scientific developments in peripartum cardiomyopathy.** 5005
– N. Ozer (Ankara, TR)
 - 12:05 **Clinical case.** 5006
– D. Ural (Istanbul, TR)
 - 12:15 **Moderated panel discussion: what is most important to optimise clinical management of peripartum cardiomyopathy?** 5007
– S. Aytekin (Istanbul, TR), Y. Cavusoglu (Eskisehir, TR), B. Pirat (Ankara, TR), V. Regitz-Zagrosek (Berlin, DE), L. Tokgozoglu (Ankara, TR), J. Bauersachs (Hannover, DE)

11:00–12:30 | Picasso - The Hub

DEFORMATION IMAGING AND OUTCOME

Rapid Fire Abstract

Chairperson(s): T. Edvardsen (Oslo, NO); K. Tiemann (Munich, DE)

- 11:00 **Global longitudinal strain measured using feature-tracking cardiac magnetic resonance imaging is an independent predictor of death in patients with reduced ejection fraction: a multicenter study.** 5008
 – B. White, S. Romano, R. Judd, R. Kim, H. Kim, I. Klem, J. Heiner, D. Shah, J. Jue, R. Indorkar, A. Farzaneh-Far (Chicago, Durham, Brooklyn and Houston, US)
- 11:09 **Feature tracking CMR assessment of left ventricular global circumferential and longitudinal strain after STEMI: effect of early metoprolol on left ventricular functional recovery.** 5009
 – T. Podlesnikar, G. Pizarro, R. Fernandez-Jimenez, J. Sanchez-Gonzalez, N. Ajmone Marsan, C. Bucciarelli-Ducci, Z. Fras, J.J. Bax, B. Ibanez, V. Delgado (Leiden, NL; Madrid, ES; Bristol, UK; Ljubljana, SI)
- 11:18 **Prognostic value of strain assessed by tissue tracking cardiovascular magnetic resonance soon after a first ST-segment elevation myocardial infarction.** 5010
 – C. Bonanad Lozano, J.F. Rodriguez-Palomares, J. Gavara, F. Valente, J.V. Monmeneu, I. Ferreira, M.P. Lopez-Lereu, J. Rodriguez, A. Evangelista, F.J. Chorro, D. Garcia-Dorado, V. Bodi (Valencia and Barcelona, ES)
- 11:27 **Post-systolic shortening by speckle tracking echocardiography provides independent prognostic information on cardiovascular morbidity and mortality in the general population.** 5011
 – P. Brainin, S.R. Biering-Soerensen, M. Sengeloev, R. Mogelvang, P. Soegaard, J.S. Jensen, T. Biering-Soerensen (Copenhagen, DK)
- 11:36 **Layer specific global longitudinal strain obtained by speckle tracking echocardiography for predicting heart failure and cardiovascular death following STEMI treated with primary PCI.** 5012
 – G. Grove, S. Pedersen, F.J. Olsen, K.G. Skaarup, P.G. Jorgensen, A.M. Shah, J.S. Jensen, T. Biering-Sorensen (Copenhagen, DK; Boston, US)
- 11:45 **Layer-specific strain does not improve detection of sub-endocardial scars.** 5013
 – S. Unlu, O. Mirea, J. Duchenne, E.D. Pagourelas, J.U. Voigt (Leuven, BE)
- 11:54 **Left ventricular global longitudinal strain is associated with all-cause mortality in a large cohort of patients with chronic kidney disease.** 5014
 – L.C.R. Hensen, K. Goossens, V. Delgado, J.I. Rotmans, J.W. Jukema, J.J. Bax (Leiden, NL)
- 12:03 **Global longitudinal strain: the incremental prognostic value in asymptomatic T2DM with preserved ejection fraction in the community.** 5015
 – Y. Wang, H. Yang, M. Nolan, K. Negishi, T.H. Marwick (Hobart and Melbourne, AU)
- 12:21 **The natural history of left ventricular longitudinal strain in a general population: clinical correlates and impact on cardiac remodeling.** 5016
 – T. Kuznetsova, N. Cauwenberghs, E. Nijs, L. Thijs, J.A. Staessen (Leuven, BE)

11:00–12:30 | Agora 1 - Agora

PROGRESS IN THE MANAGEMENT OF PULMONARY HYPERTENSION

Rapid Fire Abstract

Chairperson(s): P. Presbitero (Rozzano, IT); A. Vonk Noordegraaf (Amsterdam, NL)

- 11:00 **Subcutaneous treprostinil for the treatment of non-operable chronic thromboembolic pulmonary hypertension: a randomized, controlled trial (CTREPH).** 5017
 – R. Sadushi-Kolici, P. Jansa, G. Kopec, A. Torbicki, I.A. Campean, G. Hoeffken, N. Skoro-Sajer, I. Simkova, K. Karlocai, R. Steringer-Mascherbauer, M. Samarzija, B. Salobir, W. Klepetko, J. Lindner, I.M. Lang (Vienna and Linz, AT; Prague, CZ; Ljubljana, SI; Warsaw, PL; Bratislava, SK; Budapest, HU; Zagreb, HR)
- 11:09 **A phase 3 study in an enriched population of pulmonary arterial hypertension patients with long term oxygen use demonstrating improved exercise tolerance with use of ambulatory inhaled nitric oxide.** 5018
 – H.W. Farber, M.M. Hoeper, R.L. Benza, M.D. Delcroix, J.T. Granton, A.J. Peacock, P.P. Fernandes, K.E. Sartoris, D.A. Quinn (Boston, Pittsburgh and Warren, US; Hanover, DE; Leuven, BE; Toronto, CA; Glasgow, UK)
- 11:18 **Comparative receptor pharmacology, pre-clinical efficacy and pharmacokinetics of a novel, next-generation prostacyclin receptor agonist, ralinepag (APD811), in humans and rats.** 5019
 – J. Adams, M. Morgan, D. Unett, B. Whittle (San Diego, US; London, UK)
- 11:27 **Cardiac magnetic resonance characterization of maladaptive right ventricular hypertrophy in chronic pulmonary hypertension.** 5020
 – I. Garcia-Lunar, D. Pereda, E. Santiago, D. Sanchez-Quintana, J. Nucho, R. San Antonio, M. Ascaso, C. Galan, J. Sanchez, V. Fuster, B. Ibanez, A. Garcia-Alvarez (Madrid, Barcelona and Badajoz, ES)
- 11:36 **APD811 (ralinepag), a novel non-prostanoid IP receptor agonist, has potent antiproliferative and vasorelaxant properties in human pulmonary artery.** 5021
 – L. Shen, J. Patel, X. Norel, D. Behan, J. Adams, L.H. Clapp (London, UK; Paris, FR; San Diego, US)
- 11:45 **Clinical phenotypes and outcomes of heritable and sporadic pulmonary veno-occlusive disease.** 5022
 – B. Girerd, D. Montani, X. Jais, M. Levy, L. Savale, P. Dorfmuller, E. Lau, J. Le Pavec, F. Parent, D. Bonnet, F. Soubrier, E. Fadel, O. Sitbon, G. Simonneau, M. Humbert (Le Kremlin-Bicêtre, Paris and Le Plessis-Robinson, FR)
- 11:54 **Vagal nerve stimulation ameliorates severe pulmonary arterial hypertension via anti-inflammatory effects in rats.** 5023
 – K. Yoshida, K. Saku, K. Kamada, K. Abe, M. Tanaka, T. Akashi, T. Kishi, K. Sunagawa, H. Tsutsui (Fukuoka, JP)
- 12:03 **JAK1/2 inhibitor ruxolitinib restores the responsiveness to hypoxia in pulmonary arterial hypertension-iPSC-derived endothelial cells.** 5024
 – M.J. Lachmann, S. Yuasa, K. Fukuda (Tokyo, JP)
- 12:12 **Pulmonary artery aneurysms: prognostic implications in pulmonary arterial hypertension patients.** 5025
 – J. Nucho Berenguer, J.M. Montero Cabezas, S. Alonso Charterina, Y. Revilla Ostolaza, M. Perez Nunez, S. Huertas Nieto, M. Velazquez Martin, C. Jimenez Lopez-Guarch, R. Martin Asenjo, I. Hernandez Gonzalez, A. Quezada Loaiza, A. Roldan Sevilla, I. Montilla Padilla, F. Arribas Ynsaurriaga, P. Escribano Subias (Madrid, ES; Leiden, NL)
- 12:21 **Six-segments right ventricular global longitudinal strain predicts survival in patients with pulmonary hypertension receiving specific vasodilator therapy.** 5026
 – R. Enache, E. Popa, R. Badea, D.M. Dorobantu, A. Calin, C.C. Beladan, M. Rosca, A. Mateescu, P. Platon, I.M. Coman, B.A. Popescu, C.C. Ginghina (Bucharest, RO)

11:00–12:30 | Agora 2 - Agora

HYPERTENSIVE ORGAN DAMAGE AND RISK

Rapid Fire Abstract

Chairperson(s): S. Brouwers (Brussels, BE); A.F. Shaker (Cairo, EG)

- 11:00 **Mediterranean diet adherence in essential hypertension middle aged men, outcome in endogenous testosterone left ventricular geometry and central haemodynamics.** 5027
 – A. Angelis, N. Ioakeimidis, K. Aznaouridis, C. Georgakopoulos, I. Gourgouli, K. Rokas, D. Terentes, K. Zisimos, C. Chrysohoou, K. Aggeli, C. Vlachopoulos, D. Tousoulis (Athens, GR)
- 11:09 **Association of blood pressure level with nonalcoholic fatty liver disease in non-hypertensive population: normal is not the new normal.** 5028
 – L.Y. Qian, H. Zou (Hangzhou, CN)
- 11:18 **Obese hypertensive men have lower circulating proatrial natriuretic peptide concentrations despite greater left atrial size.** 5029
 – C.L. Asferg, U.B. Andersen, A. Linneberg, J.P. Goetze, J.L. Jeppesen (Glostrup and Copenhagen, DK)
- 11:27 **Prognostic impact of ventricular remodeling in arterial hypertension: an echocardiographic study in asymptomatic patients with heart failure.** 5030
 – N.R. Pugliese, I. Fabiani, S. La Carrubba, L. Conte, F. Antonini-Canterin, P. Colonna, P. Caso, F. Benedetto, V. Santini, E. Calogero, S. Carej, M.F. Romano, R. Citro, V. Di Bello (Pisa, Palermo, Pordenone, Bari, Naples, Reggio Calabria and Messina, IT)
- 11:36 **Cystatin-C as independent predictor of subclinical organ damage in white coat hypertension.** 5031
 – E. Androulakis, N. Papageorgiou, E. Chatzistamatiou, G. Moustakas, G. Siasos, K. Toutouzas, I. Kallikazaros, D. Tousoulis (Athens, GR)
- 11:45 **Aortic Root Dilatation is associated with incident CV events in a population of treated hypertensive patients: the Campania Salute Network.** 5032
 – R. Izzo, M.-A. Losi, M. Galderisi, C. Mancusi, G. Canciello, A. D' Amato, N. De Luca, B. Trimarco, G. De Simone (Naples, IT)
- 11:54 **High Blood pressure is associated to obesity in Brazilian students aged 10 to 15 years in two samples with a 30 year interval.** 5033
 – B.B. Harboe, F.L. Fonseca, P.P.M. Spinetti, E.M.G. Campana, G.B. Bouzas, J.B. Bouzas, E.R.O. Silva, L.M. Guimaraes, A.C.S. Almeida, R.B. Maia, R.G.A. Freitas, M.E.C. Magalhaes, R. Pozzan, A.A. Brandao, A.P. Brandao (Rio de Janeiro, BR)
- 12:03 **Comparison of the predictive role of left ventricular mass and arterial stiffness for coronary artery disease in patients with essential hypertension: Data from a Greek 8-year-follow-up study.** 5034
 – T. Kalos, C. Tsioufis, K. Dimitriadis, A. Kasiakogias, D. Konstantinidis, K. Syrmali, E. Andrikou, K. Kyriazopoulos, N. Koufakis, G. Anoussis, D. Aragiannis, N. Vogiatzakis, C. Thomopoulos, D. Tousoulis (Athens, GR)
- 12:12 **Elevated blood pressure and risk of venous thromboembolism: evidence from 6.6 million UK adults.** 5035
 – M. Nazarzadeh, H. Mohseni, J. Tran, N. Conrad, A. Perez-Crespillo, K. Rahimi (Sabzevar, IR; Oxford, UK)
- 12:21 **Assesment of long term cardiovascular effects of unileteral nephrectomy.** 5036
 – S. Ozkurt, Y. Karaveliologlu, M. Kalcik, I. Dogan, A. Musmul, M. Yetim, T. Dogan, L. Bekar, O. Celik, I. Ekinozu, O. Karaarslan (Eskisehir and Çorum, TR)

11:00–12:30 | Dublin - Village 1

AUTOPHAGY AND THE CONTROL OF CARDIAC METABOLISM

Symposium

Chairperson(s): L. Carrier (Hamburg, DE); T. Zaglia (Padua, IT)

- 11:00 **New mediators of cardiac mitophagy.** 5037
 – J. Sadoshima (Newark, US)
- 11:22 **Crosstalk between mTOR and Hippo signalling pathways in cardiomyocyte survival and growth.** 5038
 – S. Sciarretta (Rome, IT)
- 11:45 **PI3K-mediated regulation of autophagy in cardio-oncology.** 5039
 – A. Ghigo (Turin, IT)
- 12:07 **Therapeutic targeting of autophagy in cardiac disease.** 5040
 – J. Hill (Dallas, US)

11:00–12:30 | Fira - Village 1

FIBROSIS – THE DARK SIDE OF THE FORCE


Advances in Science

Chairperson(s): J.L. Balligand (Brussels, BE); M. Yamagishi (Kanazawa, JP)

- 11:00 **State of the Art: myocardial fibrosis - The dark side of the force.** 5041
– S. Heymans (Maastricht, NL)
- 11:18 **The role of long non coding RNA in gene-specific promoter methylation during cardiac fibrogenesis.** 5042
– X. Xu, X. Tan, M. Hulshoff, G. Hasenfuss, M. Zeisberg, E. Zeisberg (Göttingen, DE)
- 11:36 **Unbiased shRNA screening identifies that lactic acid promotes cardiac fibroblast activation.** 5043
– K. Koyama, N. Takeda, H. Abe, H. Semba, K. Soma, M. Wake, M. Katoh, Y. Nakagama, T. Isagawa, I. Komuro (Tokyo and Nagasaki, JP)
- 11:54 **Heat shock protein 47 knockout in fibroblasts causes contractile dysfunction in engineered human myocardium.** 5044
– S. Sur, C. Noack, P. Christalla, M. Tiburcy, K. Nagata, M. Mayr, W.-H. Zimmermann (Göttingen, DE; Kyoto, JP; London, UK)
- 12:12 **Fibroblasts as effectors and recipients of cardiac cell communication.** 5045
– S. Frantz (Würzburg, DE)

11:00–12:30 | Astana - Village 2

AM I MISSING SECONDARY HYPERTENSION?

 Ask a Question

Symposium

Chairperson(s): G. de Simone (Naples, IT); D. Mungunchimeg (Ulaanbaatar, MN)

- 11:00 **Renovascular disease.** 5046
– J.P. Reilly (New Orleans, US)
- 11:22 **Primary hyperaldosteronism.** 5047
– M. Brown (Cambridge, UK)
- 11:45 **Pheochromocytoma.** 5048
– G.P. Rossi (Padua, IT)
- 12:07 **Sleep apnea.** 5049
– K. Narkiewicz (Gdansk, PL)

11:00–12:30 | Pristina - Village 2

THERAPEUTIC CHALLENGES IN WOMEN

Symposium

Joint with the International Society of Cardiovascular Pharmacotherapy

Chairperson(s): J.C. Kaski (London, UK); M.A. Alonso Garcia (London, UK)

- 11:00 **Antithrombotic therapy in women: does gender matter?** 5050
– E. Swahn (Linköping, SE)
- 11:22 **Antiarrhythmic drugs in women: worries and messages.** 5051
– B. Casadei (Oxford, UK)
- 11:45 **Antihypertensive drug therapy in women: do we really need to consider the gender?** 5052
– C. Cecconi (Desenzano del Garda, IT)
- 12:07 **Cardiovascular drugs and pregnancy: current perspectives.** 5053
– G.-A. Dan (Bucharest, RO)

11:00–12:30 | Beirut - Village 3

NUCLEAR IMAGING: A PRIMER FOR THE CARDIOLOGIST

Symposium

Chairperson(s): M.H. Al Mallah (Riyadh, SA); F.M. Bengel (Hannover, DE)

- 11:00 **Early risk stratification in suspected CAD: what are the roles of CT and SPECT?** 5054
– D. Berman (Los Angeles, US)
- 11:22 **Myocardial viability assessment using SPECT and PET.** 5055
– R. Beanlands (Ottawa, CA)
- 11:45 **Guiding revascularisation in ischaemia by nuclear imaging techniques.** 5056
– O. Gaemperli (Zurich, CH)
- 12:07 **Nuclear techniques as a “non-invasive biopsy” for infiltrative myocardial diseases.** 5057
– S. Dorbala (Boston, US)

11:00–12:30 | Riga - Village 3

 Ask a Question


IMAGE INTERPRETATION WITH THE MASTERS – CARDIAC MRI

Expert Advice

Chairperson(s): A. Meave (Mexico City, MX); P. Perrone-Filardi (Naples, IT)

11:00	Late enhancement and edema. – M.G. Friedrich (Montreal, CA)	5058
11:22	T1 Mapping. – C. Kramer (Charlottesville, US)	5059
11:45	CMR for structural heart disease. – T.D. Karamitsos (Thessaloniki, GR)	5060
12:07	CMR for cardiac tumors. – P.T. Buser (Basel, CH)	5061

11:00–12:30 | Chisinau - Village 4

 Ask a Question

ASSESSMENT OF EARLY CARDIOVASCULAR DISEASE

Symposium

Chairperson(s): J. Kuvin (Lebanon, US); S.E. Petersen (London, UK)

11:00	Anatomic detection of early atherosclerosis. – J.H.F. Rudd (Cambridge, UK)	5062
11:22	Endothelial function assessment for risk stratification: ready for prime time? – J.E. Deanfield (London, UK)	5063
11:45	Epicardial fat: myth or marker? – E. Baranova (St. Petersburg, RU)	5064
12:07	Retinal microvasculature: a window into the heart. – A. Flammer (Zurich, CH)	5065

11:00–12:30 | Vilnius - Village 4

HEART FAILURE IN DIABETES: PREVENTION AND MANAGEMENT

Symposium

Joint with the Japanese Circulation Society

Chairperson(s): I. Komuro (Tokyo, JP); F. Cosentino (Stockholm, SE)

11:00	Exercise and diabetes prevention. – E. Prescott (Copenhagen, DK)	5066
11:22	Pathophysiological mechanisms of heart failure in diabetes. – T. Minamino (Niigata, JP)	5067
11:45	Optimal weight in heart failure with and without diabetes. – C. Lavie (New Orleans, US)	5068
12:07	Treatment with novel agents (SGLT2i). – K. Node (Saga, JP)	5069

11:00–12:30 | Skopje - Village 5


STROKE PREVENTION IN ATRIAL FIBRILLATION: THE KNOWN KNOWNS AND THE KNOWN UNKNOWNNS

Symposium

Chairperson(s): L. Fauchier (Tours, FR); I. Savelieva (London, UK)

11:00	Patient with a CHA2DS2VASc score of 1: what to do? – P.B. Nielsen (Aalborg, DK)	5070
11:22	How to best manage atrial fibrillation patients undergoing PCI/stent? Focus on recent trials. – A. Rubboli (Bologna, IT)	5071
11:45	Patients with recent intracranial or gastrointestinal bleeds. – T.F. Chao (Taipei, TW)	5072
12:07	Stroke prevention in atrial fibrillation: should we believe in “Real World Data”? – S. Potpara (Belgrade, RS)	5073

11:00–12:30 | Valetta - Village 5

 Ask a Question

ION CHANNEL DISEASES CAUSING ARRHYTHMIAS

Case-based Symposium

Chairperson(s): J. Brugada Terradellas (Barcelona, ES); S. Viskin (Tel Aviv, IL)

11:00	A middle-aged asymptomatic man with very short QTc. – C. Giustetto (Turin, IT)	5074
11:30	Multiple genetic variations in sodium channel subunits in a case of sudden infant death syndrome. – N. Schmitt (Copenhagen, DK)	5075
12:00	When the ECG may hide a dangerous situation: practical information. – S. Ernst (London, UK)	5076

11:00–12:30 | Bishkek - Village 6

TOUGH DECISIONS AROUND TAVI

Chairperson(s): A. Finkelstein (Tel Aviv, IL); P. Suwalski (Warsaw, PL)

- | | | |
|-------|--|------|
| 11:00 | When is TAVI futile?
– C.M. Otto (Seattle, US) | 5077 |
| 11:18 | Increased gradient post TAVI: what to accept during follow-up.
– N. Ajmone Marsan (Leiden, NL) | 5078 |
| 11:36 | TAVI with atrial fibrillation: which antithrombotic regimen?
– G.M. Montalescot (Paris, FR) | 5079 |
| 11:54 | Asymptomatic leaflet thrombosis after TAVI: what to do?
– F.J. Neumann (Bad Krozingen, DE) | 5080 |
| 12:12 | Coronary artery disease in TAVI, if and when to treat?
– K. Hayashida (Tokyo, JP) | 5081 |



Symposium

11:00–12:30 | Luxembourg - Village 6

CLOTTED VEINS: PILL OR DRILL?

Chairperson(s): L. Mazzolai (Lausanne, CH); N. Meneveau (Besançon, FR)

- | | | |
|-------|---|------|
| 11:00 | Acute deep vein thrombosis: anticoagulation only?
– N. Kucher (Bern, CH) | 5082 |
| 11:22 | Acute pulmonary embolism: drugs and devices.
– N. Meneveau (Besançon, FR) | 5083 |
| 11:45 | A patient with idiopathic deep vein thrombosis: how long to anticoagulate?
– A. Bura Riviere (Toulouse, FR) | 5084 |
| 12:07 | Post-thrombotic syndrome: new hopes?
– M. Lichtenberg (Arnsberg, DE) | 5085 |



Expert Advice

11:00–12:30 | Podgorica - Village 6

STABLE ANGINA PECTORIS: TO REVASULARISE OR NOT

Joint with the Korean Society of Cardiology

Chairperson(s): F. Van de Werf (Leuven, BE); C.W. Lee (Seoul, KR)

- | | | |
|-------|---|------|
| 11:00 | Medical treatment of stable coronary artery disease.
– U. Sechtem (Stuttgart, DE) | 5086 |
| 11:22 | The challenge: stents or surgery, the evidence so far.
– C.W. Lee (Seoul, KR) | 5087 |
| 11:45 | Impact of diabetes on decision making.
– C. Macaya (Madrid, ES) | 5088 |
| 12:07 | Imaging-and function-guided PCI.
– B.-K. Koo (Seoul, KR) | 5089 |



Symposium

11:00–12:30 | Oslo - Village 7

THE TRICUSPID VALVE: NEW INSIGHTS INTO INVASIVE THERAPIES

Chairperson(s): D. Muraru (Padua, IT); O. Alfieri (Milan, IT)

- | | | |
|-------|---|------|
| 11:00 | Anatomy and pathophysiology of the tricuspid valve.
– S.Y. Ho (London, UK) | 5090 |
| 11:22 | Imaging analysis of tricuspid regurgitation.
– O.I.I. Soliman (Rotterdam, NL) | 5091 |
| 11:45 | Surgery of the tricuspid valve indications, techniques and results.
– T. Modine (Lille, FR) | 5092 |
| 12:07 | Catheter-based interventions for tricuspid regurgitation.
– G. Nickenig (Bonn, DE) | 5093 |



Symposium

11:00–12:30 | Rabat - Village 7

ANSWERS TO TOUGH QUESTIONS IN ADULT CONGENITAL HEART DISEASE


Joint with the International Society for Adult Congenital Heart Disease

Chairperson(s): H. Kaemmerer (Munich, DE); E. Oechslin (Toronto, CA)

- | | | |
|-------|--|------|
| 11:00 | Pulmonary vasodilators in ACHD: what is the evidence?
– B.J. Bouma (Amsterdam, NL) | 5094 |
| 11:22 | Management of the failing sub-aortic right ventricle.
– To be announced | 5095 |
| 11:45 | Is there a role for CRT in ACHD?
– T. Wong (London, UK) | 5096 |
| 12:07 | Fontan associated liver disease: how does it affect outcome?
– A. Egbe (Lakeville, US) | 5097 |

Symposium

11:00–12:30 | Bucharest - Village 8

 Vote & Ask a Question

BRINGING STEMI GUIDELINES TO THE BEDSIDE

Guidelines in Daily Practice

Chairperson(s): B. Ibanez (Madrid, ES); H.M. Mardikar (Nagpur, IN)

- 11:00 **STEMI and multivessel disease.** 5098
– T.P. Pilgrim (Bern, CH)
- 11:15 **STEMI and multivessel disease - What do the guidelines say?** 5099
– A. Kastrati (Munich, DE)
- 11:30 **STEMI and multivessel disease. How to implement Guidelines – Panel discussion.** 5100
– S. Halvorsen (Oslo, NO), S. Matskeplishvili (Moscow, RU)
- 11:40 **STEMI and multivessel disease - Conclusion and take home message.** 5101
– B. Ibanez (Madrid, ES)
- 11:45 **STEMI and cardiogenic shock.** 5102
– H. Thiele (Lübeck, DE)
- 12:00 **STEMI and cardiogenic shock - What do the guidelines say?** 5103
– P. Widimsky (Prague, CZ)
- 12:15 **STEMI and cardiogenic shock. How to implement Guidelines – Panel discussion.** 5104
– S. Halvorsen (Oslo, NO), S. Matskeplishvili (Moscow, RU)
- 12:25 **STEMI and cardiogenic shock - Conclusion and take home message.** 5105
– H.M. Mardikar (Nagpur, IN)

11:00–12:30 | Tripoli - Village 8

ACUTE FAILURE OF THE FORGOTTEN VENTRICLE

Symposium

Chairperson(s): R.J.M. Klautz (Leiden, NL); S.V. Konstantinides (Mainz, DE)

- 11:00 **Acute right heart failure - Pathophysiology.** 5106
– V.-P. Harjola (Helsinki, FI)
- 11:22 **Acute right heart failure - Management.** 5107
– G.M.C. Rosano (London, UK)
- 11:45 **Different phenotypes of acute right heart failure - Does one size fit all?** 5108
– M.B. Yilmaz (Sivas, TR)
- 12:07 **Panel discussion: acute failure of the forgotten ventricle.** 5109

11:00–12:30 | Lisbon - Village 9

HOW TO INTERPRET LABORATORY TESTS IN ACUTE HEART FAILURE

 Ask a Question

Expert Advice

Chairperson(s): Y.M. Lopatin (Volgograd, RU); P. Ponikowski (Wroclaw, PL)

- 11:00 **The meaning and value of inflammatory markers in acute heart failure.** 5110
– J.T. Parissis (Athens, GR)
- 11:22 **Troponin in patients with acute heart failure.** 5111
– B. Hunter (Indianapolis, US)
- 11:45 **Natriuretic peptides in heart failure patients.** 5112
– M. Richards (Christchurch, NZ)
- 12:07 **Renal function parameters in acute heart failure.** 5113
– R.A. De Boer (Groningen, NL)

11:00–12:30 | Warsaw - Village 9

NON-PHARMACOLOGICAL TREATMENT OF HEART FAILURE

Advances in Science

Chairperson(s): A.J.S. Coats (Coventry, UK); H.M.S. Kabil (Mansoura, EG)

- 11:00 **State of the Art: does steel heal heart failure?** 5114
– J.G.F. Cleland (Glasgow, UK)
- 11:15 **Prognostic impact of electrocardiographic left atrial abnormality in patients with congestive heart failure treated with resynchronization therapy: experience from MADIT-CRT trial.** 5115
– P.G. Platonov, J. Carlson, V. Kutiyfa, S. McNitt, B. Polonsky, J.P. Couderc, W. Zareba (Lund, SE; Rochester, US)
- 11:30 **Effects of adaptive servoventilation to treat central sleep apnea in heart failure patients with reduced ejection fraction on exercise capacity and mortality: the Bad Oeynhausen ASV Registry.** 5116
– O. Oldenburg, B. Wellmann, A. Buchholz, T. Bitter, H. Fox, E. Freiwald, D. Horstkotte, K. Wegscheider (Bad Oeynhausen and Hamburg, DE)
- 11:45 **Lacking treatment effect of ICD in heart failure patients lacking ischemic heart disease and age? A meta-analysis and meta-regression focusing on moderators and the DANISH trial.** 5117
– M.M. Thomsen, C. Lewinter (Herlev and Copenhagen, DK)
- 12:00 **Machine-learning characterization of myocardial deformation patterns to identify responders to resynchronization therapy.** 5118
– M. Cikes, S. Sanchez Martinez, T. Biering Sorensen, A.C. Pouleur, D. Knappe, V. Kutiyfa, A. Moss, K. Stein, B. Bijnens, S. Solomon (Zagreb, HR; Barcelona, ES; Copenhagen, DK; Brussels, BE; Hamburg, DE; Rochester, Minneapolis and Boston, US)
- 12:15 **Chronic heart failure: novel devices and interventions on the horizon.** 5119
– W.T. Abraham (Columbus, US)

08:30–12:30 | Best poster screen - Poster Area

BEST POSTERS 6

Best Posters

Discussant intervention 10:05–10:55

Best Posters are on display from 08:30 to 12:30 on the Best Posters plasma screen of the related topic. During the viewing time (10:05–10:55), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN PRIMARY AND ACUTE PCI

Discussant: Best Posters in primary and acute PCI.	P5120
– V. Kunadian (Newcastle-upon-Tyne, UK), V. Juliebo (Oslo, NO)	
Stratification of hemorrhagic risk: the ATRIA bleeding score in patients with acute coronary syndrome undergoing percutaneous coronary intervention.	P5121
– M.L. Goncalves, L. Abreu, J. Gil, B.R. Marmelo, H. Antunes, M.I. Pires, I. Cunha, I. Almeida, D. Moreira, C. Cabral (Viseu, PT)	
High bleeding risk influences the type of stent used in patients presetting with acute coronary syndrome.	P5122
– M.C. Alraies, K.D. Buchanan, A. Steinvil, T. Rogers, E. Koifman, A. Gai, R. Torguson, I. Ben-Dor, L.F. Satler, H.M. Garcia-Garcia, R. Waksman (Washington, US)	
Incidences and predictors of serious bleeding events in a contemporary STEMI population. A DANAMI-3 substudy.	P5123
– G. Sadjadieh, T. Engstroem, S. Helqvist, D.E. Hoefsten, L. Koeber, P. Clemmensen, F. Pedersen, H.H. Tilsted, H. Kelbaek, L. Holmvang (Copenhagen, Nykøbing Falster and Roskilde, DK)	
Impact of admission hyperglycemia on 3-year mortality in diabetic versus non-diabetic patients undergoing primary PCI for STEMI.	P5124
– A. Pavlovic, D. Milasinovic, Z. Mehmedbegovic, J. Dobras, S. Zaharijev, M. Stevanovic, M. Radomirovic, I. Zivkovic, A.D. Ristic, V. Vukcevic, S. Stankovic, M. Asanin, G. Stankovic (Belgrade, RS)	

BEST POSTERS IN CARDIAC COMPUTED TOMOGRAPHY

Discussant: Best Posters in cardiac computed tomography.	P5125
– D.A. Halon (Haifa, IL), F. Pugliese (London, UK)	
A systematic report on non-coronary cardiac computed tomography angiographies in 1,097 patients from the German cardiac CT registry.	P5126
– G. Gitsioudis, S. Achenbach, S. Schneider, A. Schermund, G. Korosoglou, J. Hausleiter, S. Schroeder, R. Rixe, A. Leber, O. Bruder, J. Senges, M. Marwan (Erlangen, Ludwigshafen, Frankfurt, Weinheim, Munich, Geislingen, Giessen and Essen, DE)	
On-site assessment of CT-FFR- in comparison with myocardial perfusion imaging and invasive FFR.	P5127
– K. Miyajima, S. Motoyama, M. Sarai, T. Kondo, H. Kawai, Y. Nagahara, M. Miyagi, K. Takada, H. Takahashi, T. Muramatsu, H. Naruse, J. Ishii, Y. Ozaki (Toyoake, JP)	
Imaging evaluation of transcatheter aortic valve recipients harbouring previous mitral prostheses.	P5128
– I.J. Amat-Santos, C. Cortes Villar, J.A. Suarez De Lezo, J.A. Munoz, J.A. Castrodeza, L. Nombela-Franco, P. Jimenez-Quevedo, E. Gutierrez, J.M. De La Torre, M. Larman, V. Serra, I.J. Martin-Morquero, R.A.U.L. Moreno, I. Gomez, J.A. San Roman (Valladolid, Córdoba, Málaga, Madrid, Santander, San Sebastian and Barcelona, ES)	
Left atrial appendage closure guided by 3D printed patient-specific models.	P5129
– G. Pontone, M. Guglielmo, A.I. Guaricci, D. Andreini, M. Guglielmo, S. Mushtaq, M. Conti, S. Marconi, M. Pepi, C. Tondo, G. Fassini (Milan, Bari and Pavia, IT)	

BEST POSTERS IN ACUTE HEART FAILURE

Discussant: Best Posters in acute heart failure.	P5130
– C.E. Mueller (Basel, CH), M. Tokmakova (Plovdiv, BG)	
To bleed, or to haemodilute: that is the question - haemoglobin value and haemoconcentration in acute heart failure syndrome patients -.	P5131
– T. Higashihara, K. Dote, M. Kato, S. Sasaki, N. Oda, E. Kagawa, Y. Nakano, M. Nagai, A. Yamane, S. Miyauchi, A. Tsuchiya (Hiroshima, JP)	
External validation and improvement of EHMRG risk model using a population-based cohort of patients with heart failure.	P5132
– N. Seppehrvand, E. Youngson, J.A. Bakal, F.A. McAlister, B.H. Rowe, J.A. Ezekowitz (Edmonton, CA)	
The prognostic importance of multiple nutrition screening indexes for 1-year mortality in patients hospitalized for acute decompensated heart failure.	P5133
– T. Takikawa, T. Sumi, K. Takahara, H. Mori, Y. Kawamura, S. Ohguchi, M. Oguri, H. Ishii, T. Murohara (Kasugai and Nagoya, JP)	
Adherence to beta-blocker drugs and association with long-term risk of heart failure admission and mortality among patients hospitalized for their first myocardial infarction.	P5134
– L.A. Desta, M. Khedri, J. Spaak, T. Jernberg, C. Hofman-Bang, H. Persson (Stockholm, SE)	

BEST POSTERS IN PREVENTION, INTERVENTIONS AND OUTCOMES

Discussant: Best Posters in prevention, interventions and outcomes. P5135
 – A. Abreu (Lisbon, PT), D. Baumgart (Essen, DE)

Analysis of patient characteristics as covariates potentially affecting pharmacokinetics, efficacy, or safety of bextrixaban in the APEX study. P5136

– J.M. Leeds, D.R. Wada, O. Bandman, A. Gold, A.T. Cohen, J.T. Curnutte, P.B. Conley (South San Francisco and Menlo Park, US; London, UK)

The impact of exercise volume on all-cause mortality, cardiovascular mortality and sudden cardiac arrest: a nationwide cohort study. P5137

– Y.A. Park, P.S. Yang, T.H. Kim, J.S. Uhm, J.H. Sung, J.Y. Kim, H.N. Pak, M.H. Lee, B. Joung (Seoul and Seongnam, KR)

Improvement in cardiovascular risk scores by a diet and exercise programme for obese and overweighted young adults. P5138

– R. Gascuena, L. Gomez Paredes, J. Munoz Gutierrez, J.M. Mendiguren, L. Calderon, M. Cogollos, C. Lledo (Madrid, ES)

Score of adherence to 2016 European cardiovascular prevention guidelines is an independent determinant of cardiovascular and all-cause mortality in a French general population. P5139

– E. Berard, V. Bongard, B. Haas, J. Dallongeville, M. Moitry, D. Cotel, J.B. Ruidavets, J. Ferrieres (Toulouse, Strasbourg and Lille, FR)

BEST POSTERS IN MYOCARDITIS

Discussant: Best Posters in myocarditis. P5140
 – S.B. Felix (Greifswald, DE), A.L.P. Caforio (Padua, IT)

Biopsy-based diagnosis in a large cohort of 2822 consecutive patients with unexplained heart failure. P5141

– F. Escher, U. Kuehl, D. Lassner, U. Gross, H.-P. Schultheiss (Berlin, DE)

Survival and left ventricular function changes in fulminant versus non-fulminant acute myocarditis. P5142

– E. Ammirati, M. Cipriani, P. Sormani, M. Varrenti, D. Petrella, C. Raineri, E. Bonacina, A. Garascia, M.P. Gagliardone, P. Pedrotti, A. Moreo, C.F. Russo, F. Oliva, P.G. Camici, M. Frigerio (Milan and Pavia, IT)

Continued elevation of plasma IL-4 and IL-17 predicts the progression from viral myocarditis to dilated cardiomyopathy. P5143

– J. Yuan, Y.H. Liao, X.J. Jin, Z.H. Wang, M. Yu, R.Z. Chen, D.J. Xu, J. Wei, J. Wan, D.C. Zhao, H.Y. H, B. Li, G. Tian, G. Hu, J. Xu (Wuhan, Shanghai, Nanjing, Xi'an, Harbin, Xiangyang and Jingzhou, CN)

Nationwide cohort of giant-cell myocarditis fulminant forms on mechanical circulatory support. P5144

– S.R. Montero Aradas, N. Aissaoui, R. Persichini, P. Bizouarn, V. Scherrer, F. Rolle, C. Delmas, J.M. Tadie, A. Combes, M. Schmidt (Paris, Saint-Denis, Nantes, Rouen, Limoges, Toulouse and Rennes, FR)

BEST POSTERS IN TAILORING ANTICOAGULANT THERAPY

Discussant: Best Posters in tailoring anticoagulant therapy. P5145
 – S. Blankenberg (Hamburg, DE), J.L. Tamargo (Madrid, ES)

Manifestations and outcome of severe warfarin overanticoagulation - the EWA study. P5146

– S. Jaakkola, I. Nuotio, T.O. Kiviniemi, R. Virtanen, M. Issakoff, K.E.J. Airaksinen (Turku, FI)

Direct factor Xa inhibition prevents cardiac remodeling induced by intermittent hypoxia through PAR-1/2 dual signaling pathway. P5147

– M. Shimada, H. Imano, A. Fujiwara, T. Hashimoto, R. Kato, Y. Ijiri, Y. Izumi, M. Yoshiyama, T. Hayashi (Takatsuki and Osaka, JP)

A patient-specific tailored intervention improves INR time in therapeutic range and INR variability in heart failure patients: A randomized controlled trial. P5148

– I. Gotsman, O. Ezra, B. Hirsh-Rokach, D. Admon, C. Lotan, F. Dekeyser Ganz (Jerusalem, IL)

Low TAFI level increases the risk of bleedings in a target INR during long-term warfarin therapy. P5149

– N.M. Vorobyeva, O.V. Moreva, E.P. Panchenko, A.B. Dobrovolsky, E.S. Kropacheva, O.A. Zemlyanskaya (Moscow, RU)

BEST POSTERS IN RISK PREDICTION AND ATRIAL FIBRILLATION

- Discussant: Best Posters in risk prediction and atrial fibrillation.** P5150
 – S. Levy (Marseille, FR), A. Abdellah (Ismailia, EG)
- Risk and predictors of malignancy in patients with atrial fibrillation: a nationwide population-based Study.** P5151
 – T.F. Chao, C.J. Liu, S.A. Chen (Taipei, TW)
- The prognostic potential of natriuretic peptides on the development of post-operative atrial fibrillation after elective cardiac surgery.** P5152
 – P. Sulzgruber, M. Steininger, A. Pilz, T. Fleck, R. Marculescu, B. Steinlechner, L. Koller, G. Goliasch, J. Wojta, A. Niessner (Vienna, AT)
- Net clinical benefit of oral anticoagulation in very elderly patients with atrial fibrillation: a sub-analysis from the PREFER in AF registry.** P5153
 – I. Cavallari, G. Patti, M. Lucerna, L. Pecun, J. Siller-Matula, P. Kirchhof, R. De Caterina (Rome and Chieti, IT; Munich, DE; Prague, CZ; Vienna, AT; Birmingham, UK)
- Predominant distribution of atrial fibrosis around the left inferior pulmonary vein identified by LGE-MRI in patients with atrial fibrillation.** P5154
 – E.M. Benito, N. Cabanelas, M. Nunez-Garcia, J. Cozzari, E. Guasch, F. Alarcon, R. Figueras I Ventura, S. Prat-Gonzalez, A. Berruezo, L. Mont (Barcelona, ES)

BEST POSTERS IN CAD: FROM BENCH TO BEDSIDE

- Discussant: Best Posters in CAD: from bench to bedside.** P5155
 – W.A. Wan Ahmad (Kuala Lumpur, MY), U. Sechtem (Stuttgart, DE)
- Impact of collateral filling on LVF and survival in STEMI patients with a concomitant CTO. An explorative subanalysis of the EXPLORE trial.** P5156
 – I.M. Van Dongen, J. Elias, K.G. Van Houwelingen, P. Agostoni, L.P. Hoebers, B.E.P.M. Claessen, D.M. Ouweneel, J.G.P. Tijssen, R.J. Van Der Schaaf, J.P.S. Henriques (Amsterdam, Enschede and Nieuwegein, NL)
- Adenosine stress CMR T1 mapping detects impaired perfusion and inducible myocardial ischaemia without gadolinium contrast or ionizing radiation in hypertrophic cardiomyopathy.** P5157
 – B. Raman, R. Ariga, M. Mahmood, S. Piechnik, A. Borlotti, M. Jerosch-Herold, J. Francis, E. Dall'Armellina, S. Sivalokanathan, V. Ferreira, H. Watkins, S. Neubauer (Oxford, UK; Boston, US)
- Microencapsulated insulin like growth factor 1 improves cardiac function after experimental infarction in absence of angiogenesis.** P5158
 – C. Baez Diaz, V. Blanco-Blazquez, V. Crisostomo, I. Palacios, C. Galvez-Monton, J. Maestre, M.T. Mangas-Ballester, R. Steendam, C. Hiemstra, O. Franssen, A. Bayes-Genis, F.M. Sanchez-Margallo (Caceres, Madrid, Badalona and Caceres, ES; Groningen and Oldenzaal, NL)
- Cardiac microdialysis enables us to monitor myocardial interstitial microRNA levels in an in-vivo beating rat heart during ischaemia/reperfusion.** P5159
 – S. Shimizu, S. Yamazaki, T. Akiyama, T. Kawada, J.T. Pearson, T. Shishido, M. Sugimachi (Osaka, JP)

BEST POSTERS IN ATHEROSCLEROSIS

- Discussant: Best Posters in atherosclerosis.** P5160
 – R. Madonna (Chieti, IT), C. Weber (Munich, DE)
- Deletion of multidrug resistance-associated protein 1 improves endothelial function and attenuates atherosclerosis in MRP1^{-/-} LDL^{-/-} double knockout mice.** P5161
 – J. Jehle, C.F.H. Mueller, A. Aksoy, S. Zimmer, G. Nickenig, V. Tiyerili (Bonn, DE)
- Regression of atherosclerotic plaques of cholesterol-fed rabbits by combined chemotherapy of paclitaxel and methotrexate carried in lipid core nanoparticles.** P5162
 – F.T. Torres Gomes, R.C. Maranhao, E.R. Tavares, P.O. Carvalho, F.R. Mattos, T. Machado, M.L. Higuchi, S.A. Hatab, R. Kallil Filho, C.V. Serrano Junior (Vitoria and São Paulo, BR)
- Hematopoietic PI3-kinase delta-deficiency aggravates atherosclerosis by impairment of regulatory T cells.** P5163
 – M. Zierden, C. Millarg, M. Vantler, E.M. Berghausen, S. Baldus, S. Rosenkranz (Cologne, DE)
- Protective roles of small GTP-binding protein GDP dissociation stimulator against angiotensin II-induced thoracic aortic aneurysm formation and rupture in mice -A possible novel therapeutic target-** P5164
 – M. Nogi, K. Satoh, S. Kudo, J. Omura, N. Kikuchi, T. Satoh, S. Sunamura, R. Kurosawa, E. Mamun, S. Hai, T. Ohtsuki, H. Shimokawa (Sendai, JP)

Posters are on display from 08:30 to 12:30. Presenters will be by their poster during the coffee break between 10:00 and 11:00 for posters viewing time.

AORTIC DISEASE

- Impact of TAVI on great vessels functional characteristics.** P5165
 – M. Vavuranakis, G. Siasos, E. Oikonomou, E. Kokkou, K. Kalogeras, K. Mourouzis, A.-M. Kolokathis, K. Aggeli, D. Tousoulis (Athens, GR)
- Electronic cigarette smoking increases of arterial stiffness and oxidative stress to a lesser extent than a single normal cigarette: an acute and chronic study.** P5166
 – I. Ikonomidis, D. Vlastos, G. Kostelli, K. Kourea, O. Kondylopoulou, S. Vlachos, D. Benas, M. Varoudi, G. Pavlidis, V. Dede, H. Triantafyllidi, I. Andreadou, J. Lekakis (Athens, GR)
- Influence of the Sievers type and aortic valvular dysfunction on the bicuspid aortic valve associated aortopathy.** P5167
 – G. Goudot, T. Mirault, A. Rossi, J. Albuissou, S. Zarka, P. Achouh, X. Jeunemaitre, M. Pernot, E. Messas (Paris, FR)
- Trends in the management of acute Type A aortic intramural haematoma (IMH).** P5168
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 – P.I.M. Moraes, A.M. Nicolau, C.M.R. Alves, A.H.P. Barbosa, I. Goncalves Jr, J.M.A. Sousa, J.M. Orlando, A.C. Moreno, L.P.M. Machado, H.C. Orellana, J.C. Nicolau, A.C. Carvalho (São Paulo, BR)
- Simple risk prediction model to assess hospital mortality in Chinese patients with ST elevation myocardial infarction based on a machine learning approach: from China acute myocardial infarction (CAMI).** P5582
 – J.G. Yang, H.F. Liu, H.Y. Xu, X. Li, W. Li, Y. Wang, Y.J. Yang (Beijing, CN)
- Comparison of short-term clinical outcomes of proximal versus non-proximal culprit lesion in patients treated with primary percutaneous coronary intervention for ST-elevation myocardial infarction.** P5583
 – S. Noaman, S. Vogrin, C.Y. Goh, Y. Cheng, A.L. Brennan, N. Andrianopoulos, D. Dinh, J. Lefkovits, C. Reid, A. Walton, D. Stub, N. Cox, W. Chan (Melbourne, AU)
- Oral atorvastatin treatment inhibits macrophage proliferation in atherosclerotic lesions.** P5584
 – C. Haerdtnr, J. Kornemann, A. Jander, J. Zou, B.-L. Schmidt, S. Lubojansky, C. Starz, B. Dufner, N. Hoppe, J. Rotta Detto Loria, C. Bode, A. Zirlík, I. Hilgendorf (Freiburg, DE)
- Diagnosis of acute myocardial infarction in patients presenting with left bundle branch block.** P5585
 – T. Nestelberger, L. Cullen, B. Lindahl, T. Reichlin, J. Greenslade, E. Giannitsis, M. Christ, B. Morawiec, O. Miro, J. Martin-Sanchez, J. Boeddinghaus, B. Badertscher, J. Du Fay De Lavallaz, C. Puelacher, C. Mueller (Basel and Lucerne, CH; Brisbane, AU; Uppsala, SE; Heidelberg, DE; Zabrze, PL; Barcelona and Madrid, ES)
- Association of admission anemia and renal failure on short- and long-term outcomes in patients undergoing primary percutaneous coronary intervention.** P5586
 – S. Zaharijev, D. Milasinovic, J. Dobras, Z. Mehmedbegovic, A. Pavlovic, I. Zivkovic, M. Radomirovic, M. Stevanovic, S. Stankovic, M. Asanin, V. Vukcevic, G. Stankovic (Belgrade, RS)
- Long-term effects of autologous bone marrow CD133+ cell transplantation on myocardial structure and function after acute myocardial infarction.** P5587
 – M. Kirgizova, V.V. Ryabov, T.E. Suslova, V.A. Markov (Tomsk, RU)
- Circulating markers of leukocyte activation correlate with myocardial inflammatory infiltration in a pig model of myocardial ischemia-reperfusion injury.** P5588
 – D. Veltman, M. Wu, M. Vanhaverbeke, A. Wibowo, P. Pokreisz, H. Gillijns, S. Van Soest, P. Sinnaeve, S. Janssens (Leuven, BE)
- STEMI patients transferred to cath lab facility centers: where are we now? National survey of STEMI in Argentina (ARGENT-IAM-ST).** P5589
 – A. Charask, Y.B. Castillo Costa, H. D'Imperio, E. Roque Perna, G. Zapata, C. Barrero, C.D. Tajer, G.H. Cerezo, J.A. Gagliardi (Caba, AR)
- Association of older age with 30-day and 3-year mortality in patients undergoing primary PCI for STEMI.** P5590
 – A. Milosevic, D. Milasinovic, J. Dobras, S. Zaharijev, M. Stevanovic, M. Radomirovic, A. Pavlovic, Z. Mehmedbegovic, V. Dedovic, M. Asanin, S. Stankovic, V. Vukcevic, G. Stankovic (Belgrade, RS)
- Impact of renal failure and acute kidney injury in patients with ST-segment elevation acute myocardial infarction: results from the Italian cardio-STEMI Sanremo registry.** P5591
 – M. Vercellino, V. Boasi, G. Mascelli, M. Reale, G.G. Secco, D. Perri, S. Cattunar, F.A. Sanchez (Alessandria and Sanremo, IT)
- Gender difference in mortality after acute myocardial infarction. Does later call for help in women define survival?** P5592
 – A. Komocsi, M. Simon, A. Janosi (Pécs and Budapest, HU)
- VA-ECMO in primary PCI for ST-elevation myocardial infarction.** P5593
 – F.S. Van Den Brink, A.D. Magan, P.G. Noordzij, J.A.S. Van Der Heyden, P. Agostoni, F.D. Eefting, J.M. Ten Berg, S. Rigter, M.J. Suttrop, B.J. Rensing, J.P. Van Kuijk, E. Daeter, C. Zivelonghi, E. Scholten (Nieuwegein, NL)
- ST elevation myocardial infarction network still faster saves still more lives.** P5594
 – J.P. Moura Guedes, P. Azevedo, D. Bento, D. Carvalho, J. Bispo, J. Amado, N. Marques, W. Santos, J. Mimoso, V. Brandao, I. De Jesus (Faro, PT)
- Gender and quality of life in stable chronic angina patients. Is it still a relevant variable? Results from a National Survey.** P5595
 – X. Garcia-Moll Marimon, F. Marin, V. Barrios, J.J. Alonso, X. Borrás (Barcelona, Murcia, Madrid and Getafe, ES)
- Comparison of automated quantification and semiquantitative visual analyses for detecting coronary artery disease in patients with stable angina using IQ-SPECT MPI.** P5596
 – C. Dogan, F. Cinaral, Z. Bayram, C. Onal, R. Acar, O. Akbal, F. Yilmaz, A. Hakgor, C. Kaymaz, N. Ozdemir (Istanbul, TR)
- Effect of number of connectors on vessel healing at proximal edge part after everolimus -eluting stent implantation using optical coherence tomography.** P5597
 – Y. Matsuhiro, R. Syutta, H. Nakamura, K. Yasumura, K. Yasumoto, N. Okamoto, H. Tanaka, N. Mori, D. Nakamura, M. Yano, N. Makino, Y. Egami, M. Nisino, J. Tanouti (Osaka, JP)
- Multicenter observational trial to evaluate TEG6s oral anticoagulant assay in apixaban- treated patients.** P5598
 – K. Bliden, F. Zaman, H. Taheri, L. Ilkhanoff, C. Sandesara, M. Blessy, U. Tantry, P.A. Gurbel (Falls Church and Rosemont, US)
- Effect of extended-duration thromboprophylaxis on venous thromboembolism and major bleeding among acutely ill hospitalized medical patients: a bivariate analysis.** P5599
 – G. Chi, T. Nafee, S. Korjian, Y. Daaboul, R.A. Harrington, S.Z. Goldhaber, R.D. Hull, A. Gold, A.T. Cohen, C.M. Gibson (Boston, Stanford and South San Francisco, US; Calgary, CA; London, UK)
- History of venous thromboembolism is associated with higher risk for recurrent venous thromboembolism: insights from the APEX trial.** P5600
 – M.K. Yee, G. Chi, T. Nafee, S. Korjian, Y. Daaboul, R.A. Harrington, S.Z. Goldhaber, R.D. Hull, A. Gold, A.T. Cohen, C.M. Gibson (Boston, Stanford and South San Francisco, US; Calgary, CA; London, UK)

- Polypharmacy: A reality in ST-elevation myocardial infarction.** P5601
 – J. Shavadia, Y. Zheng, F.A. McAlister, R.C. Welsh, P.W. Armstrong, P. Kaul (Durham, US; Edmonton, CA)
- In-hospital clinical outcomes of patients with ST elevation myocardial infarction undergoing pharmacoinvasive therapy 6 to 12 hours after symptoms onset.** P5602
 – P.I.M. Moraes, J.B.S. Pereira, A.H.P. Barbosa, C.H.D. Jorge, J.A. Orati, S.E. Kawakami, B.P.A. Santos, I. Goncalves Jr, E. Stefanini, A.C. Moreno, A.M. Caixeta, C.M.R. Alves, A.C. Carvalho (São Paulo, BR)
- “Stent for Life” in Portugal: balance of five years of activity.** P5603
 – H. Pereira, R. Cale, E. Pereira, S. Vitorino, S. Mello (Almada, PT)
- Impact of body mass index on outcomes after everolimus-eluting stents versus bare metal stents implantation in patients with ST-segment elevation myocardial infarction: insights the EXAMINATION trial.** P5604
 – E. Moscarella, G. Spitaleri, S. Brugaletta, A. Pernigotti, L. Ortega Paz, A. Cequier, A. Iniguez, A. Serra, P. Jimenez-Quevedo, V. Mainar, G. Campo, M. Tespili, M. Valgimigli, P. Serruys, M. Sabate (Barcelona, Vigo, Madrid and Alicante, ES; Ferrara and Serrate, IT; Bern, CH; London, UK)
- The study of myocardial deformation by the speckle tracking technique: diagnostic and prognostic value in acute myocardial infarction.** P5605
 – B. Rekek, F. Mghaieth, S. Boudiche, M.S. Mourali (Tunis, TN)
- Evolving trends in procedural characteristics and clinical outcomes in patients undergoing percutaneous coronary intervention for ST-elevation myocardial infarction.** P5606
 – S. Biswas, S.J. Duffy, J. Lefkovits, N. Andrianopoulos, A. Brennan, A. Walton, J. Shaw, W. Chan, A. Ajani, D. Clark, M. Freeman, C. Hiew, E. Oqueli Flores, C. Reid, D. Stub (Melbourne, Geelong and Ballarat, AU)

12:45–13:45 | Barcelona - Main Auditorium

PCSK9 INHIBITORS: THE EVIDENCE-BASED STORY

Satellite Symposium

Sponsored by Amgen GmbH

Chairperson(s): K.K. Ray (London, UK)

12:45	Introduction - PCSK9 inhibitors: the evidence-based story.	5607
	– K.K. Ray (London, UK)	
12:50	The LDL-C paradigm.	5608
	– B.A. Ference (Plymouth, US)	
13:00	Atherosclerosis regression and low LDL-C.	5609
	– S.J. Nicholls (Adelaide, AU)	
13:10	Evidence for CV event reduction with lower LDL-C.	5610
	– C.J. Packard (Glasgow, UK)	
13:30	Panel discussion - PCSK9 inhibitors: the evidence-based story.	5611
	– K.K. Ray (London, UK)	
13:40	What questions remain unanswered?	5612
	– K.K. Ray (London, UK)	

Complementary Satellite Symposium - Experts on the Spot session scheduled on Tuesday 29 August, 15:45–16:15 in Miro - The Hub.

12:45–13:45 | Spotlight Stage

BAROREFLEX ACTIVATION THERAPY: ITS ROLE IN THE MANAGEMENT OF HEART FAILURE AND RESISTANT HYPERTENSION

Satellite Symposium

Organised by Charité Medical School, supported with an educational grant by CVRx

Chairperson(s): S.D. Anker (Berlin, DE); F. Zannad (Vandoeuvre-lès-Nancy, FR)

12:45	Welcome and introduction - Baroreflex activation therapy: its role in the management of heart failure and resistant hypertension.	5613
	– S.D. Anker (Berlin, DE), F. Zannad (Vandoeuvre-lès-Nancy, FR)	
12:55	Why is the baroreflex a relevant target for both resistant hypertension and heart failure?	5614
	– To be announced	
13:10	Resistant hypertension: stimulating the baroreflex when drugs have failed.	5615
	– A. Pathak (Toulouse, FR)	
13:30	Heart failure with reduced ejection fraction and a narrow QRS: how can baroreflex activation therapy help?	5616
	– C. Butter (Bernau/Berlin, DE)	

12:45–13:45 | Goya - The Hub

ROUNDTABLE DISCUSSION WITH THE AMERICAN HEART ASSOCIATION EDITORS

Satellite Symposium

Sponsored by American Heart Association and Wolters Kluwer

Chairperson(s): K. Sweitzer (Tucson, US); P. Wang (Stanford, US)

12:45	Introduction - Roundtable discussion with the American Heart Association editors.	5617
	– K. Sweitzer (Tucson, US), P. Wang (Stanford, US)	
12:50	Publishing in cardiovascular medicine: tips on the manuscript submission process.	5618
	– K. Sweitzer (Tucson, US), P. Wang (Stanford, US)	

12:45–13:45 | Beirut - Village 3

STATE OF THE ART LIPID TREATMENT IN CORONARY PATIENTS IN 2017

Satellite Symposium

Sponsored by MSD

Chairperson(s): P.J. Barter (Sydney, AU); C.M. Ballantyne (Houston, US)

12:45	How can we implement recent guidelines in clinical practice?	5619
	– To be announced	
12:55	State of the art lipid lowering combination therapies.	5620
	– F. Mach (Geneva, CH)	
13:05	Emerging science: recent evidence and science on the horizon.	5621
	– M. Bonaca (Boston, US)	
13:25	Successes and challenges in clinical practice.	5622
	– C.M. Ballantyne (Houston, US)	
13:35	Q&A - State of the art lipid treatment in coronary patients in 2017.	5623

Complementary Satellite Symposium - Experts on the Spot session scheduled on Tuesday 29 August, 15:45–16:15 in Picasso - The Hub.

12:45–13:45 | Riga - Village 3

CURRENT ADVANCEMENTS IN RENAL DENERVATION AND THE SPYRAL HTN PROGRAM Satellite Symposium
Sponsored by Medtronic

Chairperson(s): C. Tsioufis (Athens, GR)

12:45	Session objectives and overview - Current advancements in renal denervation and the SPYRAL HTN program.	5624
	– C. Tsioufis (Athens, GR)	
12:50	Why is hypertension management an important clinical goal?	5625
	– R.E. Schmieder (Erlangen, DE)	
13:00	What can we do?	5626
	– M. Böhm (Homburg, DE)	
13:10	What new tools and techniques do we have?	5627
	– J.E. Davies (London, UK)	
13:20	What should you expect from the latest trials?	5628
	– F. Mahfoud (Homburg, DE)	
13:30	Panel discussion - Current advancements in renal denervation and the SPYRAL HTN program.	5629
	– C. Tsioufis (Athens, GR)	

12:45–13:45 | Podgorica - Village 6

STOPPING THE VENOUS THROMBOEMBOLISM (VTE) EPIDEMIC IN HOSPITALIZED MEDICALLY ILL PATIENTS: AN INNOVATIVE, CUTTING EDGE AND STATE-OF-THE-ART ACTION PLAN Satellite Symposium

Organised by Medscape Education, supported with an educational grant by Portola

Chairperson(s): S.Z. Goldhaber (Boston, US)

12:45	Welcome and introductions - Stopping the VTE epidemic in hospitalized medically ill patients: an innovative, cutting edge and state-of-the-art action plan.	5630
	– S.Z. Goldhaber (Boston, US)	
12:50	The critical unmet need of VTE prophylaxis in medically ill patients.	5631
	– S.Z. Goldhaber (Boston, US)	
13:00	Novel oral anticoagulants to prevent VTE and to prevent stroke during hospitalization and during the first several months after hospital discharge.	5632
	– M. Gibson (Boston, US)	
13:20	Antidotes for direct oral anticoagulants (DOACs).	5633
	– A.T. Cohen (London, UK)	
13:30	Case discussion - Stopping the VTE epidemic in hospitalized medically ill patients: an innovative, cutting edge and state-of-the-art action plan.	5634
	– A.T. Cohen (London, UK), M. Gibson (Boston, US), S.Z. Goldhaber (Boston, US)	
13:40	Summary and concluding remarks - Stopping the VTE epidemic in hospitalized medically ill patients: an innovative, cutting edge and state-of-the-art action plan.	5635
	– S.Z. Goldhaber (Boston, US)	

12:45–13:45 | Oslo - Village 7

LEADING THE WAY TO IMPROVED STROKE PREVENTION WITH NOACs: FOCUS ON AF PATIENTS UNDERGOING NON-SURGICAL PROCEDURES AND ON SUBCLINICAL AF Satellite Symposium
Sponsored by Bristol-Myers Squibb and Pfizer Alliance

Chairperson(s): H. Heidbuchel (Antwerp, BE)

12:45	Improving patient care with NOACs: where are we now?	5636
	– H. Heidbuchel (Antwerp, BE)	
12:50	How can NOACs advance care of AF patients undergoing cardioversion?	5637
	– P. Kirchhof (Birmingham, UK)	
13:05	NOACs and pulmonary vein ablation: evidence and optimal management.	5638
	– H. Heidbuchel (Antwerp, BE)	
13:20	Detection and prevention: what is the role of NOACs in subclinical AF?	5639
	– A.M.W. Alings (Breda, NL)	
13:35	Panel discussion - Leading the way to improved stroke prevention with NOACs: focus on AF patients undergoing non-surgical procedures and on subclinical AF.	5640
	– H. Heidbuchel (Antwerp, BE)	

12:45–13:45 | Bucharest - Village 8

Today on ESC TV

EXPLORING VASCULAR PROTECTION IN PATIENTS WITH CORONARY ARTERY DISEASE (CAD) OR PERIPHERAL ARTERY DISEASE (PAD) THROUGH THE POTENTIAL OF FACTOR XA INHIBITION... THE COMPASS STUDY

Satellite Symposium

Sponsored by Bayer AG

Chairperson(s): S.J. Connolly (Hamilton, CA); S. Yusuf (Hamilton, CA)

- 12:45 **Opening remarks - Exploring vascular protection in patients with CAD or PAD through the potential of factor Xa inhibition... The COMPASS study.** 5641
– S. Yusuf (Hamilton, CA)
- 12:50 **Which patients with CAD or PAD are at the highest risk of cardiovascular events... What do the registries teach us.** 5642
– P.G. Steg (Paris, FR), D.L. Bhatt (Newton, US)
- 13:15 **The COMPASS study... Vascular protection with rivaroxaban in patients with CAD or PAD.** 5643
– S.J. Connolly (Hamilton, CA), J.W. Eikelboom (Hamilton, CA)
- 13:40 **Closing remarks - Exploring vascular protection in patients with CAD or PAD through the potential of factor Xa inhibition... The COMPASS study.** 5644
– P.G. Steg (Paris, FR)

Complementary Satellite Symposium - Experts on the Spot session scheduled on Tuesday 29 August, 15:45–16:15 in Gaudi - The Hub.

12:45–13:45 | Lisbon - Village 9

Vote & Ask a Question

HOW TO IMPROVE PROGNOSIS IN HIGH CARDIOVASCULAR RISK PATIENTS

Satellite Symposium

Sponsored by SERVIER

Chairperson(s): N.R. Poulter (London, UK); C. Vlachopoulos (Athens, GR)

- 12:45 **Introduction - How to improve prognosis in high cardiovascular risk patients.** 5645
– N.R. Poulter (London, UK)
- 12:48 **1 out of 10 cardiovascular events attributable to poor adherence: is this acceptable today?** 5646
– N.R. Poulter (London, UK)
- 13:03 **The example of coronary artery disease patients with hypertension.** 5647
– A.S. Hall (Leeds, UK)
- 13:18 **The example of hypertensive patients with hypercholesterolemia.** 5648
– C. Borghi (Bologna, IT)
- 13:33 **Discussion - How to improve prognosis in high cardiovascular risk patients.** 5649
– C. Borghi (Bologna, IT), A.S. Hall (Leeds, UK), N.R. Poulter (London, UK), C. Vlachopoulos (Athens, GR)
- 13:43 **Conclusion - How to improve prognosis in high cardiovascular risk patients.** 5650
– C. Vlachopoulos (Athens, GR)

12:45–13:45 | Warsaw - Village 9

ARE WE PREPARED TO REDUCE LDL-CHOLESTEROL AT ANY COST?

Satellite Symposium

Sponsored by Mylan

Chairperson(s): L. Tokgozoglu (Ankara, TR)

- 12:45 **Challenges for reaching LDL-C goals in high and very high risk patients.** 5651
– L. Tokgozoglu (Ankara, TR)
- 12:55 **High potency statins and beyond: benefits of combination therapy.** 5652
– M. Farnier (Dijon, FR)
- 13:10 **Last step on the ladder: proprotein convertase subtilisin/kexin type 9 (PCSK9).** 5653
– L. Tokgozoglu (Ankara, TR)
- 13:25 **Cost implications of misunderstanding statin intolerance.** 5654
– E. Stroes (Amsterdam, NL)
- 13:40 **Conclusion - Are we prepared to reduce LDL-cholesterol at any cost?** 5655
– L. Tokgozoglu (Ankara, TR)

13:00–13:45 | Dublin - Village 1

STRESS ECHO OR CARDIAC COMPUTED TOMOGRAPHY ANGIOGRAPHY (CCTA) IN THE EVALUATION OF PATIENTS WITH SUSPECTED OR KNOWN CORONARY ARTERY DISEASE (CAD)

Satellite Symposium

Sponsored by GE Healthcare

Chairperson(s): J. Wehmeyer (Freiburg, DE)

- 13:00 **The role of CCTA in the evaluation of stable chest pain.** 5656
– G. Morgan-Hughes (Plymouth, UK)
- 13:22 **The role of stress echo in the evaluation of stable chest pain.** 5657
– G. Athanassopoulos (Kallithea, GR)

13:00–13:45 | Pristina - Village 2

ADVANCES IN THE MANAGEMENT OF HYPERTENSIVE PATIENTS WITH MULTIPLE RISK FACTORS Satellite Symposium**Sponsored by Novartis Pharma AG**

Chairperson(s): B. Williams (London, UK)

- | | | |
|-------|--|------|
| 13:00 | Introduction - Current challenges in treating hypertensive patients with multiple comorbidities.
– B. Williams (London, UK) | 5658 |
| 13:03 | Management of hypertensive patients with cardiovascular complications.
– E. Agabiti-Rosei (Brescia, IT) | 5659 |
| 13:15 | Treatment strategies for diabetic hypertensives to prevent or limit progression of chronic kidney disease.
– S. Del Prato (Pisa, IT) | 5660 |
| 13:27 | Treatment strategies for hypertensive patients with multiple risk factors.
– B. Williams (London, UK) | 5661 |
| 13:39 | Panel discussion - Advances in the management of hypertensive patients with multiple risk factors.
– B. Williams (London, UK), E. Agabiti-Rosei (Brescia, IT), S. Del Prato (Pisa, IT) | 5662 |

14:00–15:30 | Barcelona - Main Auditorium

HOT LINE: LATE-BREAKING REGISTRY RESULTS 2		Registry Session
Chairperson(s): F. Weidinger (Vienna, AT); M.R. Cowie (London, UK)		
14:00	Leaflet Thrombosis Following Transcatheter Aortic Valve Replacement: Insights from the MAUDE Database.	5663
– A. Kalra (Cleveland, US)		
14:15	Prevalence of serious complications related to catheter ablation of atrial fibrillation and atrial flutter: a nationwide in-hospital analysis of administrative data for Germany in 2014.	5664
– G. Steinbeck (Starnberg, DE)		
14:30	Implementation of modern treatments explains improvements in outcomes after ST-Elevation Myocardial Infarction (STEMI) over a 20-year period in Sweden from 1995 to 2014.	5665
– K. Szummer (Stockholm, SE)		
14:45	How can we explain the J curve in hypertensive patients with coronary artery disease? An analysis of 22,672 patients from the CLARIFY registry.	5666
– P.G. Steg (Paris, FR)		
15:00	Effectiveness of community atrial fibrillation screening in over 10,000 citizens using smartphone electrocardiogram- The AFinder program.	5667
– N.-Y. Chan (Kowloon, HK)		
15:15	Fibrosis as Measured by the Biomarker, Tissue Inhibitor Metalloproteinase 1, Predicts Mortality in Age Gene Environment Susceptibility Reykjavik (AGES Reykjavik) Study.	5668
– G. LaRocca (New York, US)		

14:00–15:30 | Spotlight Stage



LEFT ATRIAL APPENDAGE (LAA) CLOSURE		Live in the box
Live procedure recorded from the CardioVascular Center Frankfurt		
Chairperson(s): B. Meier (Bern, CH); S.V. Pislaru (Rochester, US); P. Presbitero (Rozzano, IT); V. Kunadian (Newcastle-upon-Tyne, UK)		
14:00	LAA closure - Introduction.	5669
– B. Meier (Bern, CH)		
14:05	To what extent do trials support LAA occlusion in the NOAC environment?	5670
– A. Bauer (Munich, DE)		
14:20	LAA occlusion – Planning the procedure for optimal outcome.	5671
– T. Lefevre (Massy, FR)		
14:35	LAA closure - Live in the box.	5672
– H. Sievert (Frankfurt, DE)		
15:15	LAA closure - Discussion.	5673
15:25	LAA closure - Conclusion.	5674
– P. Presbitero (Rozzano, IT)		

14:00–15:30 | Dali - The Hub

RAISING STANDARDS IN CARDIOVASCULAR CARE AND PLANNING		Symposium
Joint with the World Health Organization		
Chairperson(s): J. Farrington (Copenhagen, DK); P. Kearney (Cork, IE)		
14:00	Strategic planning of cardiovascular care in Europe.	5675
– P. Kearney (Cork, IE)		
14:12	Country profile of capacity and response to non-communicable diseases.	5676
– J. Farrington (Copenhagen, DK)		
14:25	Taking inspiration from oncology: national cancer control plans.	5677
– T. Albreht (Ljubljana, SI)		
14:38	Cardiac plans and strategies: views from the World Heart Federation.	5678
– D.A. Wood (London, UK)		
14:51	The Spanish cardiac plan.	5679
– A. Iniguez Romo (Vigo, ES)		
15:04	The Irish cardiovascular health policy.	5680
– I.M. Graham (Wicklow, IE)		
15:17	Panel discussion: raising standards in cardiovascular care and planning.	5681

14:00–15:30 | Gaudi - The Hub

FIRST NIGHT IN THE ICU – DON'T BE AFRAID OF THE MACHINES

Chairperson(s): J. Poess (Lübeck, DE); H. Verwey (Leiden, NL)

14:00	Non-invasive and invasive ventilation. – S. Price (London, UK)	5682
14:22	Renal replacement therapy. – C. Sitzwohl (Vienna, AT)	5683
14:45	Pulmonary artery catheter and PICCO. – P. Vranckx (Hasselt, BE)	5684
15:07	Short-term mechanical circulatory support. – S. de Waha (Lübeck, DE)	5685

Cardiologists of Tomorrow

Special Session

14:00–15:30 | Goya - The Hub

BOOSTING MITOCHONDRIA TO BETTER THE HEART

Chairperson(s): N. Voigt (Göttingen, DE); G. Vilahur Garcia (Barcelona, ES)

14:00	Calcium and regulation of the mitochondrial permeability transition. – P. Bernardi (Padua, IT)	5686
14:22	Control of NAD homeostasis and signalling in heart failure. – M. Mericksay (Chatenay-Malabry, FR)	5687
14:45	Succinate metabolism as a cardioprotective target. – T. Krieg (Cambridge, UK)	5688
15:07	Mitochondrial transplantation to rescue the ischaemic heart. – J.D. McCully (Boston, US)	5689

Scientists of Tomorrow

Symposium

14:00–15:30 | Miro - The Hub

CORONARY INTERVENTION FOR ISCHAEMIC HEART DISEASE

Joint with the Mexican Society of Cardiology

Chairperson(s): E. Alexanderson Rosas (Mexico City, MX); K. Huber (Vienna, AT)

14:00	Multivascular percutaneous coronary intervention with new generation stents. Are rules of play going to change? – A. Ricalde (Mexico City, MX)	5690
14:22	The evolving management of acute coronary syndrome: have we made any progress? – J.L. Leiva (San Luis Potosi, MX)	5691
14:45	Optimal timing of complete revascularisation in N-STEMI. – M. Maeng (Aarhus, DK)	5692
15:07	Summary of the newest data: role of FFR for revascularisation decisions in stable patients and acute coronary syndromes. – T.K. Rudolph (Cologne, DE)	5693



Symposium

14:00–15:30 | Picasso - The Hub

MYOCARDITIS MADE EASY

Rapid Fire Abstract

Chairperson(s): I. Burazor (Niš, RS); L. Cooper (Jacksonville, US)

- | | | |
|-------|---|------|
| 14:00 | Cardiac functional recovery and long-term outcome of the patients with fulminant myocarditis treated using VA-ECMO. | 5694 |
| | – K. Hirose, A. Isotani, M. Yano, T. Morinaga, N. Domei, M. Hyodo, Y. Soga, S. Shirai, K. Ando (Fukuoka, JP) | |
| 14:09 | Diagnostic yield and complications of endomyocardial biopsy in patients with congestive heart failure and reduced ejection fraction. | 5695 |
| | – M. Jimenez-Blanco Bravo, E. Garcia-Izquierdo Jaen, J.F. Oteo Dominguez, A. Garcia Touchard, J.A. Fernandez Diaz, F. Dominguez Rodriguez, P. Garcia Pavia, F.J. Goicolea Ruigomez, J. Segovia Cubero, L. Alonso Pulpon (Madrid, ES) | |
| 14:27 | Development of a recovery prediction model in patients with fulminant myocarditis supported with percutaneous veno-arterial extracorporeal membrane oxygenation: insights from the CHANGE PUMP study. | 5696 |
| | – A. Sawamura, T. Okumura, A. Hirakawa, M. Ito, Y. Ozaki, N. Ohte, T. Amano, T. Murohara (Nagoya, Tsu, Toyoake and Nagakute, JP) | |
| 14:36 | Heart transplantation in giant cell myocarditis and cardiac sarcoidosis. | 5697 |
| | – D. Velikanova, J. Lehtonen, P. Simonen, M. Kupari (Helsinki, FI) | |
| 14:45 | Parvovirus B19 in endomyocardial biopsy of patients with idiopathic dilated cardiomyopathy: foe or bystander? | 5698 |
| | – C. Hjalmarsson, J.Å. Liljeqvist, M. Lindh, K. Karason, E. Bollano, A. Oldfors, B. Andersson (Gothenburg, SE) | |
| 14:54 | Predictors of mechanical circulatory support in patients with acute cardiac failure due to fulminant myocarditis. | 5699 |
| | – A. Izquierdo, J. Gonzalez, N. Manito, J. Roca, V. Lorente, A. Ariza, F. Sbraga, A. Cequier (Barcelona, ES) | |
| 15:03 | The delayed recovery of absolute lymphocyte count after induction therapy predicts cytomegalovirus viremia in heart transplantation. | 5700 |
| | – M. Yoon, J. Oh, I.C. Kim, S.M. Kang (Seoul, KR) | |
| 15:12 | Clinical course of patients with microvascular disease with chronic heart failure secondary to Chagas cardiomyopathy. | 5701 |
| | – A.P. Otaviano, A. Cardinalli-Neto, A.M.S. Rodrigues, M.A. Nakazone, R.B. Bestetti (São José do Rio Preto, BR) | |
| 15:21 | Myocardial uptake in bone scan in the elderly population. | 5702 |
| | – L. Mohamed Salem, D. Pascual Figal, R. Reyes Marles, M ^a .V. Godoy Bravo, I. Sime Loayza, M ^a .I. Castellon Sanchez, L. Frutos Esteban, F. Nicolas Ruiz, J.L. Navarro Ferenandez, M ^a .A. Claver Valderas (Murcia, ES) | |

14:00–15:30 | Agora 1 - Agora



REVASCLARISATION IN STABLE CORONARY ARTERY DISEASE

Rapid Fire Abstract

Chairperson(s): K. Toth (Pecs, HU); P. Laanmets (Viimsi, EE)

- 14:00 **Long-term outcome of total arterial myocardial revascularization versus conventional coronary artery by-pass in diabetic and non diabetic patients: a propensity-match analysis.** 5703
– C. Muneretto, L. Di Bacco, F. Rosati, L. Giroletti, G. Bisleri, A. Repossini (Brescia, IT; Kingston, CA)
- 14:09 **Validation of the SCAI definition of periprocedural myocardial infarction for prediction of one-year mortality following elective percutaneous coronary interventions.** 5704
– K.C. Koskinas, G. Ndrepepa, L. Raeber, S. Kufner, A. Karagiannis, T. Zanchin, J. Hieber, L. Hunziker, R.A. Byrne, D. Heg, S. Windecker, A. Kastrati (Bern, CH; Munich, DE)
- 14:18 **Outcome and safety of same-day discharge after percutaneous coronary intervention: a 10 year single center experience.** 5705
– V. Rubimbura Mazimpaka, L. Rostain, A.M. Duval, S. Akakpo, M. Boukantar, P. Boiron, J.L. Dubois-Rande, E. Teiger (Créteil, FR)
- 14:27 **“Time-to-event” meta-analysis comparing CABG to PCI in contemporary era.** 5706
– O. Bockeria, Z. Kudzoeva (Moscow, RU)
- 14:36 **Prognostic value of chronic total occlusions detected on coronary computed tomographic angiography: results from the CONFIRM Study.** 5707
– M.P. Opolski, H. Gransar, L.J. Shaw, J.M. Pena, F.Y. Lin, J.K. Min (Warsaw, PL; Los Angeles, Atlanta and New York, US)
- 14:45 **Incidence and predictors of target lesion revascularization in lesions with moderate to severe calcification which underwent percutaneous coronary intervention guided by optical coherence tomography.** 5708
– H. Shibata, Y. Kijima, R. Nagoshi, M. Takami, A. Kozuki, R. Fujiwara, Y. Mochizuki, S. Nakano, Y. Fukuyama, S. Kakizaki, D. Fujimoto, H. Kurimoto, E. Masuko, J. Shite (Osaka, JP)
- 14:54 **Vessel response after sirolimus-eluting stent implantation in very long term follow up comparing with short term follow up: optical coherence tomography study.** 5709
– K. Tanaka, Y. Fujino, S. Tahara, S. Nakamura (Matsudo, JP)
- 15:03 **The patient's own perspective on coronary revascularization, the POPCORN study.** 5710
– K. Masdjedi, P.H.D. Van Domburg, D.R. Van Mieghem (Rotterdam, NL)
- 15:12 **Impact of in-stent neoatherosclerosis assessed by optical coherent tomography on cardiac troponin elevation after percutaneous coronary intervention.** 5711
– M. Kawabe, A. Sato, T. Hoshi, K. Aonuma (Tsukuba, JP)
- 15:21 **Clinical outcome of very severe calcified lesions guided by optical coherence tomography.** 5712
– H. Shibata, Y. Kijima, R. Nagoshi, M. Takami, A. Kozuki, R. Fujiwara, Y. Mochizuki, S. Nakano, Y. Fukuyama, S. Kakizaki, D. Fujimoto, H. Kurimoto, E. Masuko, J. Shite (Osaka, JP)

14:00–15:30 | Agora 2 - Agora

ANTICOAGULATION IN ATRIAL FIBRILLATION

Rapid Fire Abstract

Chairperson(s): G.P. Tatu-Chitoiu (Bucharest, RO); L. Mauri (Boston, US)

- 14:00 **Atrial fibrillation and venous thromboembolism. a Swedish nationwide registry study on 1358274 individuals.** 5713
– B. Hornestam, M. Adiels, W.G. Kok, L. Bjorck, A. Rosengren (Gothenburg, SE)
- 14:09 **Higher risk of dementia without oral anticoagulation in atrial fibrillation.** 5714
– L. Friberg, M. Rosenqvist (Stockholm, SE)
- 14:18 **Anticoagulant use and associated outcomes in patients with atrial fibrillation and advanced kidney disease.** 5715
– P. Noseworthy, X. Yao, N. Tangri, N. Shah, K. Nath (Rochester, US; Winnipeg, CA)
- 14:27 **Age and gender differences in stroke and bleeding risks in atrial fibrillation patients treated with non-vitamin K antagonist oral anticoagulants.** 5716
– P. Noseworthy, X. Yao, L.R. Sangaralingham, N.D. Shah (Rochester, US)
- 14:36 **Similar long-term risk of thromboembolic events in postoperative atrial fibrillation following coronary artery bypass grafting and non-valvular atrial fibrillation: need for anticoagulation?** 5717
– J.H. Butt, R. Rorth, A. Gundlund, J.B. Olesen, G.H. Gislason, C. Torp-Pedersen, L. Kober, E.L. Fosbol (Copenhagen, Hellerup and Aalborg, DK)
- 14:45 **Incidence, predictors and prognosis of thrombus formation on device in patients with atrial fibrillation after left atrial appendage occlusion for stroke prevention in a multicenter analysis.** 5718
– L. Fauchier, A. Cinaud, F. Brigadeau, B. Pierre, A. Lepillier, O. Paziand, M. Fatemi, P. Jacon, S. Abbey, F. Franceschi, D. Klug, J. Mansourati, J.C. Deharo, D. Gras, P. Defaye (Tours, Lille, Saint-Denis, Brest, Grenoble, Nantes and Marseille, FR)
- 14:54 **Edoxaban versus warfarin in patients with atrial fibrillation in relation to stroke risk. A subanalysis of the ENGAGE AF-TIMI 48 study.** 5719
– J.R. De Groot, C.T. Ruff, S.A. Murphy, A.J.M. Oude Ophuis, L. Grip, E. Antman, H. Lanz, M.F. Mercuri, E. Braunwald, R.P. Giugliano (Amsterdam and Nijmegen, NL; Boston and Edison, US; Munich, DE)
- 15:03 **Fatal and non-fatal secondary events in 496173 individuals with a first episode of atrial fibrillation between 1987 and 2013- a Swedish register study.** 5720
– L. Bjorck, M. Adiels, B. Hornestam, A. Rosengren (Gothenburg, SE)
- 15:12 **Comparison of stroke and major bleeding risk of treatment with apixaban vs. rivaroxaban and dabigatran among elderly nonvalvular atrial fibrillation patients in the United States.** 5721
– S. Deitelzweig, X. Luo, K. Gupta, J. Trocio, J. Mardekian, T. Curtice, M. Lingohr-Smith, B. Menges, J. Lin (New Orleans, New York, Plainsboro and Green Brook, US)
- 15:21 **Correlation of the CHADS2, CHA2DS2-Vasc and ATRIA risk scores with the presence of left atrial appendage thrombus in patients with non-valvular atrial fibrillation.** 5722
– L.E. Enriquez Rodriguez, L. Perez De Isla, A.C. Espejo Paeres, A.C. Rueda Linares, M. Jimenez Martin, A.C. Alcantar Fernandez, V. Ruiz Pizarro, J.C. Gomez Polo, J.C. Perez Villacastin, C. Macaya Miguel (Madrid and Pamplona, ES; Torreon Coahuila, MX)

14:00–15:30 | Dublin - Village 1

CARDIAC FIBROBLASTS – ESSENTIAL PLAYERS IN CARDIAC HEALTH AND DISEASE

Symposium

Joint with the International Society for Heart Research

Chairperson(s): M. Avkiran (London, UK); J.L. Balligand (Brussels, BE)

- 14:00 **Myocyte-fibroblast coupled signalling: a suitable target for therapy.** 5723
– S. Heymans (Maastricht, NL)
- 14:22 **Novel mechanisms of myocyte signalling to fibroblasts.** 5724
– P. Kohl (Freiburg, DE)
- 14:45 **Epigenetics in cardiac fibrosis.** 5725
– E. Zeisberg (Göttingen, DE)
- 15:07 **Quantifying cardiac fibrosis by MR imaging.** 5726
– S. Plein (Leeds, UK)

14:00–15:30 | Fira - Village 1

CARDIAC REGENERATION AND DISEASE MODELLING WITH INDUCED PLURIPOTENT STEM CELLS (iPSC) Advances in Science

Chairperson(s): L.W. Van Laake (Utrecht, NL); L. Badimon (Barcelona, ES)

- 14:00 **State of the Art: disease modelling with iPSC.** 5727
– P. Van Der Meer (Groningen, NL)
- 14:18 **Human embryonic stem cell derived epicardial cells advance cardiomyocyte-based heart regeneration.** 5728
– J. Bargehr, P. Hofsteen, S. Bhandari, L. Gambardella, L. Ong, D. Iyer, F. Sampaziotis, F. Weinberger, M. Martinson, W. Bernard, N. Figg, M. Bennett, C. Murry, S. Sinha (Cambridge, UK; Seattle, US)
- 14:36 **Human iPSC cell-derived cardiac tissue (HiCT) for cardiac regenerative therapy.** 5729
– H. Masumoto (Kyoto, JP)
- 14:54 **Initiation of the first heart beat and its role in cardiomyocyte differentiation.** 5730
– R. Tyser, A. Miranda, S. Davidson, S. Srinivas, P. Riley (Oxford and London, UK)
- 15:12 **Opportunities and limitations of iPSC technology in cardiovascular disease.** 5731
– R. Zweigerdt (Hannover, DE)

14:00–15:30 | Astana - Village 2

 Vote & Ask a Question

HYPERTENSION AND HEART FAILURE IN VALVULAR DISEASE Guidelines in Daily Practice

Chairperson(s): S. Taddei (Pisa, IT); B. Tomlinson (Shatin, HK)

- 14:00 **A hypertensive patient with heart failure and reduced ejection fraction.** 5732
– A. Jumar (Erlangen, DE)
- 14:15 **A hypertensive patient with heart failure and reduced ejection fraction - What do the guidelines say?** 5733
– P. Ponikowski (Wroclaw, PL)
- 14:30 **A hypertensive patient with heart failure and reduced ejection fraction. How to implement Guidelines – Panel discussion.** 5734
– E. Gerdts (Bergen, NO), T. Kuznetsova (Leuven, BE)
- 14:40 **A hypertensive patient with heart failure and reduced ejection fraction - Conclusion and take home message.** 5735
– S. Taddei (Pisa, IT)
- 14:45 **Hypertension and aortic stenosis.** 5736
– R. Rosenhek (Vienna, AT)
- 15:00 **Hypertension and aortic stenosis - What do the guidelines say?** 5737
– T.H. Marwick (Melbourne, AU)
- 15:15 **Hypertension and aortic stenosis. How to implement Guidelines – Panel discussion.** 5738
– E. Gerdts (Bergen, NO), T. Kuznetsova (Leuven, BE)
- 15:25 **Hypertension and aortic stenosis - Conclusion and take home message.** 5739
– B. Tomlinson (Shatin, HK)

14:00–15:30 | Pristina - Village 2

HOW TO MAKE ORAL ANTICOAGULATION SAFE Advances in Science

Chairperson(s): D. Atar (Oslo, NO); I. Simkova (Bratislava, SK)

- 14:00 **State of the Art: oral anticoagulation in the challenging patient.** 5740
– P. Kirchhof (Birmingham, UK)
- 14:18 **Use of aspirin and impact of quality of anticoagulation control on outcomes in patients with atrial fibrillation: an analysis from the SPORTIF trials.** 5741
– M. Proietti, G.Y.H. Lip (Birmingham, UK)
- 14:36 **Increased bleeding events in patients co-administered rivaroxaban and either cyp3A4 or p-gp inhibitors.** 5742
– W. Momin, J. Goble, S. Thotakura, J.B.M. Michel (Dallas and Temple, US)
- 14:54 **Clinical determinants of time in therapeutic range and the role of SAME-TT2R2 score in atrial fibrillation patients receiving oral anticoagulation: data from FANTASIA registry.** 5743
– M.A. Esteve Pastor, I. Roldan Rabadan, J. Muniz, A. Cequier, V. Bertomeu-Martinez, L. Badimon, P. Rana Miguez, M. Anguita, G.Y.H. Lip, F. Marin (Murcia, Madrid, A Coruña, Barcelona, Alicante and Córdoba, ES; Birmingham, UK)
- 15:12 **The future of oral anticoagulation.** 5744
– J. Weitz (Hamilton, CA)



Symposium

14:00–15:30 | Beirut - Village 3
ROLE OF IMAGING IN COMMON CLINICAL SCENARIOS – UPDATE ON PRACTICE RECOMMENDATIONS
European Association of Cardiovascular Imaging

Chairperson(s): T. Edvardsen (Oslo, NO); G. Habib (Marseille, FR)

- | | | |
|-------|--|------|
| 14:00 | The role of imaging in atrial fibrillation.
– E. Donal (Rennes, FR) | 5745 |
| 14:22 | Left ventricular diastolic function assessment.
– B.A. Popescu (Bucharest, RO) | 5746 |
| 14:45 | Aortic stenosis.
– V. Delgado (Leiden, NL) | 5747 |
| 15:07 | Imaging of prosthetic heart valves.
– P. Lancellotti (Liège, BE) | 5748 |

14:00–15:30 | Riga - Village 3

THREE DIMENSIONAL ECHOCARDIOGRAPHY

Advances in Science

Chairperson(s): J.K. Kisslo (Durham, US); A.A.M. Farrag (Cairo, EG)

- | | | |
|-------|--|------|
| 14:00 | State of the Art: 3D echocardiography.
– F.F. Faletra (Lugano, CH) | 5749 |
| 14:18 | Echocardiographic predictors of midterm outcome after mitralclip implantation.
– I. Kapos, L.R. Rebellius, S. Obeid, S. Kuwata, O. Gaemperli, F. Maisano, F.C. Tanner (Zurich, CH) | 5750 |
| 14:36 | Tricuspid valve geometry in patients with Barlow type mitral valve prolapse: a three-dimensional transesophageal echocardiography study.
– K. Hirasawa, M. Izumo, K. Suzuki, T. Harada, M. Isobe, Y. Akashi (Tokyo and Kawasaki, JP) | 5751 |
| 14:54 | Hybrid 3D printing based on fusion of multi-modality imaging in simulation of catheter-based transapical mitral valve artificial chordae implantation.
– W.P. Zhao, X.H. Shu, Y.L. Chen, N.W. Zhou, C.Z. Pan, J.B. Ge (Shanghai, CN) | 5752 |
| 15:12 | 3D: added value of the new dimension in echocardiography.
– H.P. Kuehl (Munich, DE) | 5753 |

14:00–15:30 | Chisinau - Village 4

THE YEAR IN PREVENTION: SCIENTIFIC HIGHLIGHTS

Symposium

European Association of Preventive Cardiology (EAPC)

Chairperson(s): D.E. Grobbee (Utrecht, NL); J.-P. Schmid (Barmelweid, CH)

- | | | |
|-------|---|------|
| 14:00 | Cardiac rehabilitation in Europe, highlights and comparisons.
– A. Abreu (Lisbon, PT) | 5754 |
| 14:22 | Emerging trends in prevention, epidemiology and population science.
– M. Verschuren (Bilthoven, NL) | 5755 |
| 14:45 | Sports cardiology highlights.
– E.E. Solberg (Oslo, NO) | 5756 |
| 15:07 | Exercise, basic and translational research: what is new?
– P. Leeson (Oxford, UK) | 5757 |

14:00–15:30 | Vilnius - Village 4
INTEGRATION OF OLD AND NEW PROGNOSTIC BIOMARKERS IN PATIENTS WITH CARDIOVASCULAR DISEASE

Advances in Science

Chairperson(s): C. Gieger (Munich, DE); M. Kayikcioglu (Izmir, TR)

- | | | |
|-------|--|------|
| 14:00 | State of the art: integration of old and new prognostic biomarkers in patients with cardiovascular disease.
– M. Kavousi (Rotterdam, NL) | 5758 |
| 14:18 | Iron deficiency independently and strongly predicts adverse outcome in patients with acute coronary syndrome - first report on the prospective relevance of iron deficiency.
– S. Schaefer, T. Zeller, C. Waldeyer, F. Ojeda, R. Schnabel, A. Atay, K. Lackner, S. Anker, D. Westermann, S. Blankenberg, M. Karakas (Hamburg, Mainz and Göttingen, DE) | 5759 |
| 14:36 | The impact of serum amyloid A on long term mortality (12 years) in patients with carotid atherosclerosis.
– M. Hoke, M. Schillinger, W.M. Mlekusch, E. Minar, M. Exner, O. Wagner (Vienna, AT) | 5760 |
| 14:54 | Relation of gut microbiota-dependent TMAO with aortic atherosclerosis: prognostic implication for patients with stroke.
– A. Haghikia, X.S. Li, T. Liman, N. Bledau, C. Widera, K. Sonnenschein, A. Haghikia, K. Weissenborn, J. Bauersachs, Z. Wang, W. Zhu, U. Bavendiek, S.L. Hazen, M. Endres, U. Landmesser (Berlin, Hannover, Oldenburg and Bochum, DE; Cleveland, US) | 5761 |
| 15:12 | Evidence-based medicine: challenges in implementation of new prognostic tools.
– M.F. Piepoli (Piacenza, IT) | 5762 |

Today on ESC TV  

Symposium


14:00–15:30 | Skopje - Village 5

FIGHTING SUDDEN CARDIAC DEATH: CHALLENGES AND NEW STRATEGIES
European Heart Rhythm Association

Chairperson(s): A.J. Camm (London, UK); G. Hindricks (Leipzig, DE)

- 14:00 **The burden of SCD across Europe: the EHRA perspective.** 5763
– J. Kautzner (Prague, CZ)
- 14:22 **ICD utilisation across Europe – Trends, inequalities and challenges. The EHRA White Book.** 5764
– B. Merkely (Budapest, HU)
- 14:45 **Primary prevention of SCD after myocardial infarction: the RESET SCD Trail.** 5765
– J.C. Nielsen (Aarhus, DK)
- 15:07 **Can cell phones save lives? The EHRA First Responder App and serious gaming.** 5766
– C. Elsner (Lübeck, DE)

14:00–15:30 | Valetta - Village 5

 Ask a Question

STROKE RISK PREDICTION IN ATRIAL FIBRILLATION

Advances in Science

Chairperson(s): N. Ozer (Ankara, TR); G. Renda (Chieti, IT)

- 14:00 **State of the Art: stroke risk prediction in atrial fibrillation.** 5767
– I. Savelieva (London, UK)
- 14:18 **Female sex is a risk modifier - not a risk factor - for stroke risk assessment in atrial fibrillation: Using a CHA2DS2-VA score rather than CHA2DS2-VASc.** 5768
– P.B. Nielsen, F. Skjoeth, T.F. Overvad, T.B. Larsen, G.Y.H. Lip (Aalborg, DK; Birmingham, UK)
- 14:36 **Changes in thromboembolic risk profile and antithrombotic therapy use over a decade: a comparison of Euro Heart Survey on AF and EURObservational research programme AF pilot registry.** 5769
– M. Proietti, P.E. Bouvet, C. Laroche, R. Nieuwlaet, H.J.G.M. Crijns, A.P. Maggioni, D.A. Lane, G. Boriani, G.Y.H. Lip (Rome and Modena, IT; Lyon and Sophia Antipolis, FR; Hamilton, CA; Maastricht, NL; Birmingham, UK)
- 14:54 **A novel biomarker-based risk score to predict death in patients with atrial fibrillation: Insights from the ARISTOTLE and RE-LY trials.** 5770
– Z. Hijazi, J. Oldgren, J. Lindback, J.H. Alexander, S.J. Connolly, J.W. Eikelboom, M.D. Ezekowitz, E.M. Hylek, R.D. Lopes, S. Yusuf, C.B. Granger, A. Siegbahn, L. Wallentin (Uppsala, SE; Durham, Wynnewood and Boston, US; Hamilton, CA)
- 15:12 **Biomarkers for stroke risk prediction in atrial fibrillation.** 5771
– J. Oldgren (Uppsala, SE)

14:00–15:30 | Bishkek - Village 6

PREVENTION AND MANAGEMENT OF ACUTE STROKE

Advances in Science

Chairperson(s): W. Doehner (Berlin, DE); P. Widimsky (Prague, CZ)

- 14:00 **State of the Art: antithrombotic therapy in cerebrovascular disease.** 5772
– H.C. Diener (Essen, DE)
- 14:18 **Anticoagulant and antithrombotic therapy is associated with intraplaque hemorrhage in the carotid artery: the rotterdam study.** 5773
– B. Mujaj, D. Bos, T. Muka, A. Van Der Lugt, M.A. Ikram, M. Vernooij, B. Stricker, O. Franco (Rotterdam, NL)
- 14:36 **A novel clinical risk score to identify people with asymptomatic carotid artery stenosis with a higher risk of stroke.** 5774
– D.R. Morris, R. Bulbulia, H. Pan, P. Rothwell, Z. Mehta, R. Peto, A. Halliday (Oxford, UK)
- 14:54 **Efficacy and safety of left atrial appendage closure with WATCHMAN in patients with or without contraindication to oral anticoagulation: 1 year follow-Up data from the Real-World EWOLUTION Study.** 5775
– L.V.A. Boersma, B. Schmidt, T. Betts, H. Sievert, H. Ince, S. Kische, E. Pokushalov, T. Schmitz, K. Stein, M. Bergmann (Nieuwegein, NL; Frankfurt, Berlin, Essen and Hamburg, DE; Oxford, UK; Novosibirsk, RU; Minneapolis, US)
- 15:12 **Intervention in acute stroke.** 5776
– M. Mazighi (Paris, FR)

14:00–15:30 | Luxembourg - Village 6

 Ask a Question

INVASIVE SUPPORT IN CRITICAL HAEMODYNAMICS

Case-based Symposium

Chairperson(s): H. Thiele (Lübeck, DE); G. Gerosa (Padua, IT)

- 14:00 **A case of out of hospital cardiac arrest.** 5777
– P.A. MacCarthy (London, UK)
- 14:30 **A case of low output despite treatment.** 5778
– J. Hausleiter (Munich, DE)
- 15:00 **Mechanical circulatory support - State of the Art.** 5779
– J.F. Gummert (Bad Oeynhausen, DE)

14:00–15:30 | Podgorica - Village 6

WOMEN'S VESSELS: ANOTHER MYSTERY

Symposium

Chairperson(s): L. Cho (Cleveland, US); C. Espinola-Klein (Mainz, DE)

- 14:00 **Thoracic aortic aneurysms and pregnancy.** 5780
– G. Teixido Tura (Barcelona, ES)
- 14:22 **Aortic aneurysms in women: same story as in men?** 5781
– R.S. von Allmen (St. Gallen, CH)
- 14:45 **Lower extremity artery disease: women are special.** 5782
– M. Brodmann (Graz, AT)
- 15:07 **Contraception and thromboembolic risk.** 5783
– L. Mazzolai (Lausanne, CH)

14:00–15:30 | Oslo - Village 7



Ask a Question

SEPTAL REDUCTION THERAPIES IN HYPERTROPHIC OBSTRUCTIVE CARDIOMYOPATHY

Expert Advice

Chairperson(s): W.J. McKenna (London, UK); U. Sigwart (Geneva, CH)

- 14:00 **The role of imaging to plan septal reduction.** 5784
– H. Rakowski (Toronto, CA)
- 14:25 **Septal myectomy: indications, methods, risks and outcome.** 5785
– P. Ferrazzi (Monza, IT)
- 14:50 **Trancatheter septal ablation: what you need to know.** 5786
– A.G. Rigopoulos (Schweinfurt, DE)
- 15:15 **Panel discussion: indications and techniques for septal reduction in hypertrophic obstructive cardiomyopathy.** 5787

14:00–15:30 | Rabat - Village 7

CORONARY ARTERIES AFTER THE ARTERIAL SWITCH OPERATION

Symposium

Joint with the Association for European Paediatric Cardiology

Chairperson(s): W. Budts (Leuven, BE); F. Berger (Berlin, DE)

- 14:00 **Transposition of the great arteries - From atrial switch to arterial switch operation.** 5788
– V.T. Tsang (London, UK)
- 14:22 **Which problems may occur at coronary arterial transfer during the arterial switch operation?** 5789
– J.I. Fragata (Alges, PT)
- 14:45 **How to assess coronary arterial dysfunction long term after arterial switch operation?** 5790
– F.J. Meijboom (Utrecht, NL)
- 15:07 **Long-term results and surveillance of adults after arterial switch operation.** 5791
– M. Ladouceur (Paris, FR)

14:00–15:30 | Bucharest - Village 8

Ask a Question

BETA-BLOCKERS IN ACUTE CORONARY SYNDROMES: THE END OF A DOGMA?

Advances in Science

Chairperson(s): K. Malmberg (Basel, CH); A. Chaib (Rabat, MA)

- 14:00 **State of the Art: beta blockade following acute coronary syndromes.** 5792
– K. Swedberg (Gothenburg, SE)
- 14:18 **Beta-blockers in patients with preserved left ventricular systolic function after acute myocardial infarction did not improve clinical outcomes.** 5793
– S.-J. Joo, J.-G. Lee, H.-Y. Kim, J.-H. Choi, S.-Y. Kim, K.-S. Kim, S.-W. Rha, J.-O. Kim, S.-C. Chae, D.-J. Choi, Y.-J. Kim, K.-B. Kim, J.-G. Chae, M.-H. Jeong (Jeju, Seoul, Daejeon, Daegu, Seongnam, Jeonju and Gwangju, KR)
- 14:36 **Intravenous beta-blocker therapy in ST-segment elevation myocardial infarction.** 5794
– E. Omerovic (Gothenburg, SE)
- 14:54 **Effect of beta-blocker dose on mortality after acute coronary syndrome.** 5795
– R. Cobas Paz, S. Raposeiras-Roubin, E. Abu-Assi, B. Caneiro Queija, C. Garcia Rodriguez, L. Rioboo Leston, I. Perez Martinez, C. Giraldez, J.A. Baz Alonso, F.E. Calvo-Iglesias, A. Iniguez-Romo (Vigo, ES)
- 15:12 **Pharmacological treatment of angina: beta blockers and beyond.** 5796
– J.L.L. Lopez-Sendon (Madrid, ES)

14:00–15:30 | Tripoli - Village 8

ASSESSMENT OF CORONARY MICROCIRCULATION

Advances in Science

Chairperson(s): L. Galiuto (Rome, IT); I. Tritto (Perugia, IT)

- 14:00 **State of the Art: assessment of coronary microcirculation.** 5797
 – N.H.J. Pijls (Eindhoven, NL)
- 14:18 **Diagnostic value of global myocardial perfusion reserve assessment based on two different non-invasive CMR techniques: coronary sinus flow measurements vs. first-pass myocardial perfusion imaging.** 5798
 – A. Florian, M. Bietenbeck, Z. Shomanova, B. Mannefeld, A. Yilmaz (Münster, DE)
- 14:36 **Prognostic value of the index of microcirculatory resistance after percutaneous coronary intervention for non-ST-segment elevation acute coronary syndrome.** 5799
 – T. Murai, T. Yonetsu, Y. Kanaji, E. Usui, M. Hoshino, M. Yamaguchi, T. Niida, M. Hada, S. Ichijo, R. Hamaya, Y. Kanno, T. Kakuta (Tsuchiura, JP)
- 14:54 **The association of left ventricular mass index with coronary collateral circulation.** 5800
 – M.S. Cetin, E.H. Ozcan Cetin, A. Temizhan, D. Aras, S. Aydogdu (Ankara, TR)
- 15:12 **Prognostic implications and therapeutics options for microvascular angina.** 5801
 – C.N. Bairey Merz (Los Angeles, US)

14:00–15:30 | Warsaw - Village 9

INNOVATIVE TREATMENT STRATEGIES IN ADVANCED HEART FAILURE

Advances in Science

Chairperson(s): A. Stromberg (Linköping, SE); M. Cikes (Zagreb, HR)

- 14:00 **State of the Art: advanced heart failure - The rise of the machines.** 5802
 – M. Mehra (Boston, US)
- 14:18 **Contemporary trends of incidence, management and outcomes of non-acute coronary syndrome associated cardiogenic shock: data from 2003 to 2011.** 5803
 – M. Agarwal, L. Garg, S. Aggarwal, G. Reed (Memphis, Allentown and Bethlehem, US)
- 14:36 **Predictive value of right heart hemodynamics on the development of acute kidney injury early after heart transplantation.** 5804
 – G. Guven, O. Manintveld, M. Brankovic, J. Brugts, A.A. Constantinescu, S. Akin, D.A. Hesselink, O. Birim, K. Caliskan (Rotterdam, NL)
- 14:54 **Longterm follow up after extracorporeal membrane oxygenation therapy in adult patients for refractory cardiogenic shock in over 1000 patients.** 5805
 – S. Lehmann, A. Meyer, A. Hoyer, K. Jawad, A.K. Funkat, S. Feder, M. Misfeld, J. Garbade (Leipzig, DE)
- 15:12 **Ultrafiltration: a bridge over troubled water.** 5806
 – M.R. Costanzo (Naperville, US)

Moderated Posters are on display from 14:00 to 18:00 on the plasma screen of the topic related Moderated Poster station.

During the moderated poster session (15:35–16:25), from a large plasma screen, Presenters will summarise their research within 3 minutes and then address questions from the Chairpersons and Audience.

15:35–16:25 | Moderated poster station - Poster Area

CARDIOVASCULAR SURGERY

Moderated Posters

Chairperson(s): M. Weyand (Erlangen, DE); J. Magne (Limoges, FR)

- Clinical and biological predictors of early vein graft failure: The SAFINOUS-CABG collaborative group.** P5807
– E.K. Oikonomou, A. Odutayo, I. Akoumianakis, A.S. Antonopoulos, S. Thomas, L. Herdman, M. Trivella, G. Collins, M. Petrou, A. Kardos, K.M. Channon, C. Antoniadis (Oxford and Milton Keynes, UK; Athens, GR)
- Impact of SYNTAX score on release of cardiac biomarkers in post-revascularization procedures among patients with stable multivessel disease: MASS-V insights.** P5808
– D.F.C. Azevedo, W. Hueb, E.G. Lima, P.C. Rezende, C.L. Garzillo, C.M.C. Strunz, C.H. Nomura, C.A.W. Segre, D. Favarato, T.L. Scudeler, A.C. Hueb, E.E.R. Silva, R.M.R. Garcia, J.A.F. Ramires, R. Kalil Filho (São Paulo, BR)
- Hypoxic-hyperoxic preconditioning: a novel technique for myocardial protection against ischemia-reperfusion injury in coronary surgery.** P5809
– I.A. Mandel, S.L. Mikheev, Y.K. Podoksenov, Y.S. Svirko, I.V. Suhodolo, V.M. Shipulin (Moscow and Tomsk, RU)
- Concordance with heart team recommendations - clinical follow up in a retrospective cohort study.** P5810
– B. Guzik, M. Fila, E. Szczepanek, L. Niewiara, P. Skorek, K. Stepień, A. Ilnicka, T. Witaszek, K. Zmudka (Krakow, PL)
- Real-life management of mitral regurgitations. Lesson from a European survey.** P5811
– B. lung, V. Delgado, S. Murray, S. Hayes, M. De Bonis, R. Rosenhek, M. Haude, G. Hindricks, P. Lazure, J. Bax, A. Vahanian (Paris, FR; Leiden, NL; Brossard, CA; Milan, IT; Vienna, AT; Neuss and Leipzig, DE)
- Acquired von willebrand factor defect under continuous-flow ventricular assist devices: modulation by dynamic changes of pulsatility.** P5812
– F. Vincent, A. Rauch, V. Loobuyck, H. Spillemaeker, C. Nix, A. Vincentelli, M. Moussa, G. Lemesle, C. Paris, A. Dupont, M. Richardson, B. Staels, P.J. Lenting, E. Van Belle, S. Susen (Lille and Le Kremlin-Bicêtre, FR; Aachen, DE)
- Early graft patency and clinical outcomes in patients undergoing off-pump coronary artery bypass grafting with perioperative continuation of statin therapy.** P5813
– S.L. Chen, H.C. Wu, H.S. Sun (Beijing, CN)

15:35–16:25 | Moderated poster station - Poster Area

CORONARY CTA: PLAQUE IMAGING

Moderated Posters

Chairperson(s): E.L. Grove (Aarhus, DK); A. Hamdan (Petah Tikva, IL)

- Impact of Diabetes on coronary artery disease burden and subsequent adverse cardiac events.** P5814
– S.D.C. Deseive, R. Straub, M. Kupke, M. Hadamitzky, P. Kitslaar, S. Massberg, J. Hausleiter (Munich, DE; Leiden, NL)
- Association of low-attenuation Plaque Volume with cardiovascular risk factors.** P5815
– S.D.C. Deseive, R. Straub, M. Kupke, M. Hadamitzky, P. Kitslaar, A. Broersen, S. Massberg, J. Haus (Munich, DE; Leiden, NL)
- Coronary Artery Disease Burden in Patients with Stable Angina and Symptoms of Heart Failure: A Coronary Computed Tomography Angiography Study from the German Cardiac CT Registry.** P5816
– G. Gitsioudis, S. Achenbach, S. Schneider, A. Schermund, G. Korosoglou, J. Hausleiter, S. Schroeder, J. Rixe, A. Leber, O. Bruder, J. Senges, M. Marwan (Erlangen, Ludwigshafen, Frankfurt, Weinheim, Munich, Geislingen, Giessen and Essen, DE)
- Effect of introducing an imaging based rule out strategy for coronary artery disease in patients with intermediate risk on the utilization of invasive coronary angiography.** P5817
– L. Nissen, S. Winther, L. Frost, H.E. Boetker, M. Boettcher (Herning, Silkeborg and Aarhus, DK)
- Coronary calcium subtraction CT angiography may be helpful for the evaluation of patients with severe coronary calcification suspected of significant coronary artery disease.** P5818
– A. Fuchs, J.T. Kuhl, M.Y. Chen, D. Vilades, X. Alomar, S.M. Shanbhag, S. Henqvist, K.F. Kofoed (Copenhagen, DK; Bethesda, US; Barcelona, ES)
- Changes in coronary plaque components over time assessed by serial coronary computed tomographic angiography.** P5819
– C. Marisch, S. Deseive, G. Brim, M. Hadamitzky, A. Broersen, P. Kitslaar, S. Massberg, J. Hausleiter (Munich, DE; Leiden, NL)
- Real world experience of novel on-site coronary CT derived fractional flow reserve algorithm for the assessment of intermediate stenoses.** P5820
– P. Maurovich-Horvat, P.M. Donnelly, M. Kolossvary, J. Karady, P.A. Ball, S. Kelly, D. Fitzsimons, M.S. Spence, C. Celleng, T. Horvath, B. Szilveszter, H.W. Van Es, M.J. Swaans, B. Merkely (Budapest, HU; Belfast, UK; Nieuwegein, NL)

15:35–16:25 | Moderated poster station - Poster Area

COMORBIDITIES IN HEART FAILURE

Moderated Posters

Chairperson(s): D. Vinereanu (Bucharest, RO); G. Bajraktari (Prishtina, XK)

Ischemic versus dilated cardiomyopathy - differences in clinical characteristics and prognosis depending on heart failure etiology. P5821

– A. Tyminska, A. Kaplon-Cieslicka, P. Balsam, K. Ozieranski, A. Wancercz, M. Peller, M. Marchel, M. Crespo-Leiro, A.P. Maggioni, J. Drozd, K.J. Filipiak, G. Opolski (Warsaw and Lodz, PL; La Coruña, ES; Florencia, IT)

Empagliflozin can improve exercise tolerance in heart failure without diabetes mellitus (experimental study). P5822

– A. Kulikov, S.V. Okovityi, D.Y. Ivkin, A.A. Karpov, A.S. Ivkina, A.V. Smirnov, I.G. Kayukov (St. Petersburg, RU)

Atrial fibrillation or rapid ventricular response in patients with left ventricular dysfunction: which is relevant to the long-term clinical outcome? P5823

– G. Benfari, C. Antoine, W.L. Miller, H. Michelena, V.T. Nkomo, A. Rossi, M. Enriquez-Sarano (Rochester, US; Verona, IT)

HYChEF: a risk score to predict congestive heart failure incidence in hypertension. (based on 18795 individual patient data). P5824

– H. Le, H. Ottomani, G. Sitruck, F. Subtil, F. Gueyffier (Lyon, FR)

Intravenous iron therapy in acute decompensated heart failure patients with iron deficiency anaemia. P5825

– G. Youssef, A. Kamal, R. Diab, M. Abdel Hamid (Cairo, EG)

Lectin-like oxidized LDL receptor-1 (LOX-1) in cardiomyocytes (CMs) is involved in the pathogenesis of doxorubicin (DOX)-induced cardiomyopathy. P5826

– T. Aoyama, C. Yokoyama, T. Ido, A. Kakino, T. Shiraki, T. Tanaka, T. Sawamura, S. Minatoguchi (Minokamo, Gifu and Matsumoto, JP)

Elevated potassium levels in patients with congestive heart failure: incidence and clinical outcomes. A Danish population based cohort study. P5827

– R.W. Thomsen, S.K. Nicolaisen, P. Hasvold, H.T. Sorensen (Aarhus, DK; Södertälje, SE)

15:35–16:25 | Moderated poster station - Poster Area

OUTCOMES IN ATRIAL FIBRILLATION: ROOM FOR IMPROVEMENT?

Moderated Posters

Chairperson(s): N.M.S. de Groot (Beinsdorp, NL); B.J.J.M. Brundel (Amsterdam, NL)

Stroke and cardiovascular outcomes for patients with atrial fibrillation in the community - an opportunity for improvement? P5828

– K.K. Poppe, R.N. Doughty, M. Harwood, P.A. Barber, J. Harrison, R.T. Jackson, S. Wells (Auckland, NZ)

Use of multiple biomarkers to improve CHA2DS2-VASc and HAS-BLED scores in the prediction of thromboembolic and bleeding events. P5829

– V. Roldan, M.A. Esteve Pastor, J.M. Rivera-Caravaca, A. Shantsila, A. Garcia Fernandez, M. Valdes, V. Vicente, F. Marin, G.Y.H. Lip (Murcia and Alicante, ES; Birmingham, UK)

Thoracoscopic left atrial appendectomy can prevent patients with atrial fibrillation from thromboembolism without anticoagulants. P5830

– T. Inoue, T. Ohtsuka, Y. Suematsu (Tsukuba and Tokyo, JP)

Evaluation of ABC-stroke and CHA2DS2-VASc ischemic scores in real-world atrial fibrillation patients receiving oral anticoagulation treatment. P5831

– J.M. Rivera-Caravaca, V. Roldan, M.A. Esteve Pastor, M. Valdes, V. Vicente, G.Y.H. Lip, F. Marin (Murcia, ES; Birmingham, UK)

Impact of atrial fibrillation on quality of life and clinical outcomes: the EURObservational research programme in atrial fibrillation (EORP-AF) general pilot registry. P5832

– M. Proietti, D.A. Lane, C. Laroche, A.P. Maggioni, G. Boriani, G.Y.H. Lip (Birmingham, UK; Sophia Antipolis, FR; Modena, IT)

Predictive value of the CHA2DS2-VASc score for cardiovascular death in comparison with stroke in patients with atrial fibrillation: The Fushimi AF Registry. P5833

– Y. An, M. Ishii, M. Iguchi, N. Masunaga, Y. Tezuka, K. Doi, M. Esato, Y. Chun, H. Wada, K. Hasegawa, H. Tsuji, H. Ogawa, M. Abe, M. Akao (Kyoto, JP)

Performance of the CHA2DS2-VASc score in patients with atrial fibrillation and recent cancer. P5834

– M. D'Souza, N. Carlson, M. Lamberts, L. Smedegaard, E. Loldrup Fosboel, D. Nielsen, C. Jakobsen, C. Torp-Pedersen, G. Gislason, M. Schou (Gentofte, Holbæk, Copenhagen, Herlev and Aalborg, DK)

15:35–16:25 | Moderated poster station - Poster Area

CELLULAR AND MOLECULAR ELECTROPHYSIOLOGY

Moderated Posters

Chairperson(s): K. Pilichou (Padua, IT); C.A. Remme (Amsterdam, NL)

- Characterization of a novel genetic variant associated with Brugada syndrome: beta-2-syntrophin mutation impairs interaction with SCN5A and reduces Na⁺ current in human cardiomyocytes.** P5835
 – C. Schmidt, F. Wiedmann, I. El-Batrawy, M. Fritz, A. Ratte, S. Lang, B. Rudic, M. Karck, M. Borggreffe, H. Katus, X.B. Zhou, D. Thomas (Heidelberg and Mannheim, DE)
- A mutation in the gene encoding the tbx5 transcription factor is associated with the Brugada Syndrome.** P5836
 – R. Caballero, S. Alfayate, R.G. Utrilla, P. Nieto-Marín, D. Tinaquero, M. Perez-Hernández, M. Matamoros, T.J. Herron, K. Campbell, J.L. Lopez-Sendon, R. Peinado, J. Jalife, J. Tamargo, E. Delpon (Madrid, ES; Ann Arbor, US)
- Optogenetic cardioversion terminates atrial fibrillation in wild-type mice after gene transfer.** P5837
 – T. Beiert, T. Bruegmann, C. Vogt, G. Nickenig, J.W. Schrickel, P. Sasse (Bonn, DE)
- Local epicardial light pulse terminates ventricular arrhythmias in the adult rat heart upon optogenetic modification: towards biological shockless defibrillation.** P5838
 – E.C.A. Nyns, A. Kip, C.I. Bart, K. Zeppenfeld, M.J. Schalij, A.A.F. De Vries, D.A. Pijnappels (Leiden, NL)
- Patient-specific iPSC-derived cardiomyocytes reveal a disease-causing role of an ACTN2 mutation in HCM and an unexpected LQT phenotype.** P5839
 – M.D. Lemoine, M. Prondzinski, G. Mearini, E. Kraemer, C. Redwood, M. Patten, S. Willems, A. Hansen, T. Eschenhagen, T. Christ, L. Carrier (Hamburg, DE; Oxford, UK)
- Structural and functional plasticity of myocardial slices in response to prolonged mechanical loading and unloading in vitro.** P5840
 – S.A. Watson, F. Perbellini, S.E. Harding, C.M. Terracciano (London, UK)
- PP1 activation as novel antiarrhythmic approach in human heart failure.** P5841
 – J. Eiringhaus, T.H. Fischer, M. Kohn, Y. Wang, L.S. Maier, G. Hasenfuss, S.T. Sossalla (Göttingen, Heidelberg and Regensburg, DE)

15:35–16:25 | Moderated poster station - Poster Area

CARDIAC AMYLOIDOSIS

Moderated Posters

Chairperson(s): M. Arad (Ramat Gan, IL); A.L.P. Caforio (Padua, IT)

- Comparison of various non-invasive tools for diagnosing AL cardiac amyloidosis.** P5842
 – M. Nicol, B. Assous, M. Baudet, A. Cescau, R. Dautry, A. Cohen Solal, B. Arnulf, D. Logeart (Paris, FR)
- Investigation of left ventricular function and biomarkers following treatment in patients with light-chain cardiac amyloidosis.** P5843
 – J. Wang, F. Yang, L. Zuo, C. Lei, J. Sheng, C. Sun, L. Liu (Xi'an, CN)
- Predictors of progression of light-chain cardiac amyloidosis.** P5844
 – A.S. Rameeva, K.V. Vedanova, V.V. Rameev, A.F. Safarova, I.N. Bobkova, L.V. Kozlovskaya, S.V. Moiseev (Moscow, RU)
- Prognosis of patients with cardiac amyloidosis referred in the French cardiac amyloidosis expert center.** P5845
 – T. Damy, A. Galat, S. Rouffiac, S. Guendouz, M. Kharoubi, K. Ayad, N. De Nadai, V. Plante-Bordeneuve, F. Lebras, A. Amiot, C. Radu, J.L. Dubois-Rande, D. Bodez (Créteil, FR)
- AG10, an orally available, novel transthyretin (TTR) stabilizer: integrated preclinical evaluation predicts a highly effective treatment for TTR amyloid cardiomyopathy.** P5846
 – M. Alhamadsheh, M. Miller, A. Pal, W. Albusairi, I. Graef, U. Sinha, J. Fox, R. Zamboni, N. Kumar (Stockton and Palo Alto, US)
- Long-term evolution of longitudinal myocardial deformation in the natural history of familial amyloid polyneuropathy.** P5847
 – G. Lima Da Silva, N. Cortez-Dias, T. Guimaraes, M. Nobre Menezes, L. Santos, S. Goncalves, I. Conceicao, F. Pinto, M.C. Azevedo Coutinho (Lisbon, PT)
- Different features of cardiac involvement in patients with AL vs. TTR amyloidosis.** P5848
 – V. Chubuchnyy, E. Pasanisi, C. Petersen, A. Giannoni, A. Barison, C. Taddei, E. Poggianti, A. Valleggi, G. Mirizzi, M. Emdin (Pisa, IT)

15:35–16:25 | Moderated poster station - Poster Area

INTERVENTIONS IN HYPERTENSION MANAGEMENT

Moderated Posters

Chairperson(s): I. Petrov (Sofia, BG); I. Sudano (Zurich, CH)

Some possible mechanisms for the antihypertensive efficacy of renal sympathetic denervation in patients with resistant hypertension and type 2 diabetes mellitus. P5849

– A. Falkovskaya, V. Mordovin, S. Pekarskiy, A. Baev, G. Semke, T. Ripp, I. Zyubanova, V. Lichikaky, A. Gusakova (Tomsk, RU)

Renal nerve stimulation identifies aorticorenal innervation and prevents inadvertent ablation of parasympathetic nerves during renal sympathetic denervation. P5850

– M.R. De Jong, A.F. Hoogerwaard, A. Adiyaman, J.J.J. Smit, J.E. Heeg, B.A.A.M. Van Hasselt, A.R. Ramdat Misier, A. Elvan (Zwolle, NL)

Renal sympathetic denervation induces changes in heart rate variability and is associated with a lower sympathetic tone. P5851

– A.F. Hoogerwaard, M.R. De Jong, A. Adiyaman, J.J.J. Smit, P.P.H.M. Delnoy, A.R. Ramdat Misier, A. Elvan (Zwolle, NL)

Cerebral blood flow and cognitive function in patients with resistant arterial hypertension: before and after sympathetic nervous denervation of renal arteries. P5852

– N. Y.U. Efimova, I. Y.U. Efimova, V.A. Lichikaki, V.F. Mordovin, Y.U.B. Lishmanov (Tomsk, RU)

Long-term follow up of a pacemaker-mediated programmable hypertension control therapy. P5853

– B. Merkely, P. Neuzil, G. Marinkis, J.R. Groot, A. Erglis, T. Pezawas, M. Voskuil, M.R. Venegas, T. Sturmberger, I. Osztheimer, M. Crujisen, A. Aidietis, J. Petru, L. Geller, K.H. Kuck (Budapest, HU; Prague, CZ; Vilnius, LT; Amsterdam and Utrecht, NL; Riga, LV; Vienna and Linz, AT; Santiago, CL; Hamburg, DE)

Barostimulation for drug-resistant arterial hypertension: mid-term results in 40 patients. P5854

– T. Madej, M. Knaut, K. Hemker (Dresden, DE)

Infiltration of the sphenopalatine ganglion decreases blood pressure in newly diagnosed and never treated patients with essential hypertension. P5855

– H. Triantafyllidi, C. Arvaniti, A. Schoinas, S. Vlachos, D. Benas, L. Palaiodimos, I. Ikonomidis, G. Kostopanagiotou, J. Lekakis (Athens, GR)

15:35–16:25 | Moderated poster station - Poster Area

GENETIC BASIS

Moderated Posters

Chairperson(s): S. Kaab (Munich, DE); E. Behr (London, UK)

Identification of genetic etiology of malignant arrhythmia in dilated cardiomyopathy. P5856

– D. Wang, Z. Li, M.S. Link, A.A.M. Wilde, D.W. Wang (Nanjing and Wuhan, CN; Dallas, US; Amsterdam, NL)

Study of pharmacodynamic and pharmacokinetic-mediated genetic susceptibility to drug-induced arrhythmia and sudden cardiac death. P5857

– M. Martinez-Matilla, A. Blanco-Verea, M. Torres, E. Ramos-Luis, R. Gil, A. Bermejo, M. H Hirata, F. Brisighelli, M. Paramo, A. Carracedo, M. Brion (Santiago de Compostela, ES; São Paulo, BR; Rome, IT)

Risk and prognosis of mutations in different regions of the KCNQ1 gene. P5858

– M. Cicerchia, A. Lamounier Junior, J. Salazar Mendiguchia, J.P. Ochoa, D. Garcia, I. Cardenas Reyes, M. Ortiz Genga, J. Rodriguez Garrido, L. Monserrat Iglesias (A Coruña, ES)

Genotype-phenotype correlation of novel KV7.1 mutations identified in patients with Long QT syndrome. P5859

– M. Refaat, S. Bomholtz, A. Steffensen, J. David, K. Espinosa, B. Bentzen, R. Nussbaum, J. Wojciak, M. Scheinman, N. Schmitt (Beirut, LB; Copenhagen, DK; San Francisco, US)

Novel RYR2 mutations causative for long QT syndromes. P5860

– M. Fukuyama, S. Ohno, M. Ichikawa, K. Takayama, D. Fukumoto, M. Horie (Otsu, JP)

High frequency of CACNA1C mutations among genotyped LQTS patients. P5861

– S. Ohno, J. Ozawa, M. Fukuyama, M. Horie (Otsu and Niigata, JP)

Catecholaminergic polymorphic ventricular tachycardia and sudden cardiac death in the context of a novel deletion in the CASQ2 gene affecting the last three exons. P5862

– M. Brion, A. Blanco-Verea, E. Ramos-Luis, M. Alvarez-Barredo, B. Lopez-Abel, J. Garcia-Seara, M. Rodriguez-Manero, J.L. Martinez-Sande, A. Fernandez-Lopez, A. Carracedo, J.R. Gonzalez-Juanatey (Santiago de Compostela, ES)

15:35–16:25 | Moderated poster station - Poster Area

DIAGNOSTIC MODALITIES IN STABLE CAD

Moderated Posters

Chairperson(s): L. Raber (Bern, CH); Y. Ozaki (Toyoake, JP)

Diagnostic accuracy of hyperemic instantaneous wave-free ratio for obstructive coronary artery disease based on lesion location. P5863

– S. Furuya, H. Takahashi, K. Kikushima, S. Tani, K. Iida, T. Washio, S. Niizuma, K. Kawauchi, M. Kobori, T. Ashida, S. Yagyu, N. Matsumoto, A. Hirayama (Tokyo, JP)

Prediction of standard of care guided coronary revascularisation by FFRct is preserved across a broad range of coronary calcification. P5864

– D. Akkan, L.O. Jensen, K. Veien, M. Husain, L. Deibjerg, A.B. Junker, K.K. Thomsen, A. Rohold, S. Hess, B.L. Norgaard, N.P.R. Sand (Esbjerg, Odense and Aarhus, DK)

The new biomarkers in coronary artery disease - the diagnostic and prognostic value of insulin like growth factor binding protein 7 (IGFBP 7) and galectin 3 (Gal 3). P5865

– A. Lisowska, M. Knapp, A. Tycinska, P. Swiecki, K. Kaminski, W.J. Musial (Bialystok, PL)

Economic outcomes of the CAT-CAD randomised trial assessing coronary artery computed tomography as the first-choice anatomic test for individuals with suspected significant coronary artery disease. P5866

– P.N. Rudzinski, M. Kruk, C. Kepka, U.J. Schoepf, T. Duguay, Z. Dzielinska, J. Pregowski, A. Witkowski, W. Ruzyllo, M. Demkow (Warsaw, PL; Charleston, US)

COMBINE OCT and FFR assessment of non culprit lesions to better predict adverse event outcomes in diabetes mellitus patients. Rationale, design and initial OCT results. P5867

– E. Kedhi, B. Berta, T. Roleder, M.W. Kennedy, E. Fabris, A.J. Ijsselmuiden, H. Nef, S. Reith, J. Escaned, F. Alfonso, N. Van Royen, W. Wojakowski, J.P. Ottervanger, H. Suryapranata (Zwolle, Dordrecht and Amsterdam, NL; Katowice, PL; Giessen and Aachen, DE; Madrid, ES)

FFRct to predict coronary revascularisation - a real-world experience. P5868

– D. Akkan, L. Deibjerg, M. Husain, K. Veien, L.O. Jensen, A.B. Junker, K.K. Thomsen, A. Rohold, S. Hess, B.L. Norgaard, N.P.R. Sand (Esbjerg, Odense and Aarhus, DK)

CCTA-guided invasive coronary angiography in symptomatic patients with positive ischemia test. P5869

– P. Modas Daniel, R. Ramos, L.A. Morais, G. Portugal, S. Aguiar Rosa, A.V. Monteiro, M. Selas, C. Leal, R. Santos, H. Marques, L. Figueiredo, R.C. Ferreira (Lisbon, PT)

15:40–16:00 | Spotlight Stage

Today on ESC TV

ESC Clinical Practice Guidelines

MEET THE GUIDELINES TASK FORCE – DIAGNOSIS AND TREATMENT OF PERIPHERAL ARTERIAL DISEASES

Special Session

Chairperson(s): V. Aboyans (Limoges, FR); M. Bjorck (Uppsala, SE)

15:40 **Diagnosis and treatment of peripheral arterial diseases.** 5870

– V. Aboyans (Limoges, FR)

15:50 **Panel discussion: diagnosis and treatment of peripheral arterial diseases.** 5871

– M. Czerny (Freiburg, DE), I. Desormais (Limoges, FR), C. Espinola-Klein (Mainz, DE), S. Kownator (Thionville, FR), M. Roffi (Geneva, CH), M.G. Sprynger (Liège, BE), M. Venermo (Helsinki, FI)

15:40–16:20 | Dali - The Hub

FROM SUBMISSION TO SHARING: HOW TO PUBLISH YOUR BEST ARTICLES IN THE EUROPEAN HEART JOURNAL AND THE NEW ENGLAND JOURNAL OF MEDICINE

Special Session

Joint with the European Heart Journal

Chairperson(s): T.F. Luscher (Zurich, CH); M. Metra (Brescia, IT)

15:40 **New digital impact scores beyond IF: ALTMETRIC score and the success of NEJM's Social Media/Twitter tools for your best content.** 5872

– J. Jarcho (Boston, US)

15:53 **How to successfully convince your peers?** 5873

– T.F. Luscher (Zurich, CH)

16:06 **Big Data has arrived! Are you ready to think inside the black box?** 5874

– R.E. Carter (Rochester, US)

15:45–16:15 | Gaudi - The Hub

VASCULAR PROTECTION IN CORONARY ARTERY DISEASE (CAD) AND PERIPHERAL ARTERY DISEASE (PAD) THROUGH FACTOR XA INHIBITION... THE COMPASS STUDY Satellite Symposium - Experts on the Spot

Sponsored by Bayer AG

Chairperson(s): S.J. Connolly (Hamilton, CA); S. Yusuf (Hamilton, CA)

- | | | |
|-------|--|------|
| 15:45 | Opening remarks - Vascular protection in CAD and PAD through factor Xa inhibition... The COMPASS study. | 5875 |
| | – S. Yusuf (Hamilton, CA) | |
| 15:50 | The COMPASS study... From start to stop. | 5876 |
| | – S.J. Connolly (Hamilton, CA), J.W. Eikelboom (Hamilton, CA) | |
| 16:00 | Interactive discussions and questions - Vascular protection in CAD and PAD through factor Xa inhibition... The COMPASS study. | 5877 |
| | – D.L. Bhatt (Newton, US), P.G. Steg (Paris, FR), J.W. Eikelboom (Hamilton, CA), S.J. Connolly (Hamilton, CA), S. Yusuf (Hamilton, CA) | |
| 16:14 | Closing remarks - Vascular protection in CAD and PAD through factor Xa inhibition... The COMPASS study. | 5878 |
| | – S.J. Connolly (Hamilton, CA), J.W. Eikelboom (Hamilton, CA) | |

Please refer to the Satellite Symposium scheduled on Tuesday 29 August, 12:45–13:45 in Bucharest - Village 8.

15:45–16:15 | Goya - The Hub

CARDIOVASCULAR RISK IN TYPE 2 DIABETES & RECENT OUTCOME TRIALS: HOW WILL THEY INFLUENCE CLINICAL DECISION MAKING? Satellite Symposium - Experts on the Spot

Sponsored by Novo Nordisk

Chairperson(s): N.R. Poulter (London, UK)

- | | | |
|-------|---|------|
| 15:45 | Introduction - Management of CV disease in type 2 diabetes. | 5879 |
| | – J.E. Deanfield (London, UK) | |
| 15:50 | Brief update on the LEADER cardiovascular outcomes trial. | 5880 |
| | – N.R. Poulter (London, UK) | |
| 16:00 | Interactive discussion - Results from CVOTs in type 2 diabetes: how will they inform clinical decision making? | 5881 |
| | – J.E. Deanfield (London, UK), N.R. Poulter (London, UK) | |

Please refer to the Satellite Symposium scheduled on Saturday 26 August, 15:30–16:30 in Pristina - Village 2.

15:45–16:15 | Miro - The Hub

PCSK9 INHIBITORS: THE EVIDENCE-BASED STORY Satellite Symposium - Experts on the Spot

Sponsored by Amgen GmbH

Chairperson(s): C.J. Packard (Glasgow, UK)

- | | | |
|-------|--|------|
| 15:45 | PCSK9 inhibitors: the story retold. | 5882 |
| | – C.J. Packard (Glasgow, UK) | |
| 15:55 | PCSK9 inhibitors: panel discussion. | 5883 |
| | – C.J. Packard (Glasgow, UK), S.J. Nicholls (Adelaide, AU) | |
| 16:10 | PCSK9: the story unfolds. | 5884 |
| | – C.J. Packard (Glasgow, UK) | |

Please refer to the Satellite Symposium scheduled on Tuesday 29 August, 12:45–13:45 in Barcelona - Main Auditorium.

15:45–16:15 | Picasso - The Hub

RECENT RESULTS IN CLINICAL TRIALS OF BLOOD CHOLESTEROL LOWERING Satellite Symposium – Experts on the Spot

Sponsored by MSD

Chairperson(s): H. Drexel (Feldkirch, AT)

- | | | |
|-------|---|------|
| 15:45 | Recent results in clinical trials of blood cholesterol lowering. | 5885 |
| | – R.E. Collins (Oxford, UK), E. Braunwald (Boston, US) | |
| 15:55 | Q&A - Recent results in clinical trials of blood cholesterol lowering. | 5886 |

Please refer to the Satellite Symposium scheduled on Tuesday 29 August, 12:45–13:45 in Beirut - Village 3.

16:00–16:20 | **Spotlight Stage**

Today on ESC TV

ESC Clinical Practice Guidelines

MEET THE GUIDELINES TASK FORCE – VALVULAR HEART DISEASE

Special Session

Chairperson(s): H. Baumgartner (Münster, DE); V. Falk (Berlin, DE)

- | | | |
|-------|--|------|
| 16:00 | Valvular heart disease.
– H. Baumgartner (Münster, DE) | 5887 |
| 16:10 | Panel discussion: valvular heart disease.
– B. Lung (Paris, FR), A.P. Kappetein (Rotterdam, NL), P. Tornos Mas (Barcelona, ES), A. Vahanian (Paris, FR), O. Wendler (London, UK) | 5888 |

16:30–18:00 | **Spotlight Stage**

Today on ESC TV

ESC CARDIOLOGY QUIZ

Special Session

Chairperson(s): J.L. Gutierrez-Chico (Berlin, DE); S. Matskeplishvili (Moscow, RU)

- | | | |
|--|--|------|
| | ESC Cardiology Quiz introduction. | 5889 |
| | Score Keepers. | 5890 |
| | Supreme Court. | 5891 |
| | Russian team from Saint Petersburg. | 5892 |
| | German team from Heidelberg. | 5893 |
| | Spanish team from Barcelona. | 5894 |

16:30–18:00 | **Dali - The Hub**

CLINICAL TRIAL UPDATE 2

Clinical Trial Update

Chairperson(s): S.D. Anker (Berlin, DE); B. Merkely (Budapest, HU)

- | | | |
|-------|---|------|
| 16:30 | Prospective Randomized Evaluation of Celecoxib Integrated Safety vs. Ibuprofen or Naproxen.
– S.E. Nissen (Cleveland, US) | 5895 |
| 16:45 | Effect of the PCSK9 Inhibitor, Evolocumab, on the Composition of Coronary Atherosclerosis: Insights from the GLAGOV trial.
– S.J. Nicholls (Adelaide, AU) | 5896 |
| 17:00 | Further Cardiovascular Outcomes Research with PCSK9 Inhibition in Subjects With Elevated Risk.
– T.R. Pedersen (Oslo, NO) | 5897 |
| 17:15 | Empagliflozin reduces mortality in patients with type 2 diabetes after coronary artery bypass graft surgery: A sub-analysis of the EMPA-REG OUTCOME trial.
– S. Verma (Toronto, CA) | 5898 |
| 17:30 | Blood Pressure Levels for Initiation of Antihypertensive Drug Therapy and Targets of Blood Pressure Lowering in Intermediate Risk People without Cardiovascular Disease: Insights from the HOPE-3 Trial.
– E. Lonn (Hamilton, CA) | 5899 |
| 17:45 | One year clinical outcome of Early Administration of intravenous Beta blockers in patients with ST-elevation myocardial infarction before primary percutaneous coronary intervention.
– V. Roolvink (Nieuwegein, NL) | 5900 |

16:30–18:00 | **Gaudi - The Hub**

ACUTE CARDIAC CARE: EXPECT THE UNEXPECTED!

Clinical Cases

Chairperson(s): I. Kindermann (Homburg, DE); A. Viana Tejedor (Madrid, ES)

- | | | |
|-------|--|------|
| 16:30 | A pheochromocytoma-induced takotsubo syndrome case treated by venoarterial extracorporeal membrane oxygenation.
– S. Loizos (Athens, GR) | 5901 |
| 16:42 | Bacterial infection and thrombosis of a single functioning Blalock-Taussig shunt in a patient with unrepaired tetralogy of Fallot with pulmonary atresia.
– C. Gabriels (Korbeek-Dijle, BE) | 5902 |
| 16:55 | Fulminant Myocarditis treated with combined implantation of left and right percutaneous ventricular assist devices.
– A.G. Pavon (Milan, IT) | 5903 |
| 17:08 | An unusual case of recurrent large pericardial effusion with pre-tamponade.
– S. Palacio Restrepo (Turin, IT) | 5904 |
| 17:21 | Chain of unfortunate events in a patient with familial hypercholesterolemia.
– S. Akturk (Ankara, TR) | 5905 |
| 17:34 | Successful use of ultrasound-assisted, catheter-directed, low-dose thrombolysis (UACDT) for massive pulmonary embolism in a post-operative patient with extreme risk of bleeding.
– J. He (Exeter, UK) | 5906 |
| 17:47 | Not every fulminant lymphocytic myocarditis fully recovers.
– G. Veronese (Milan, IT) | 5907 |

16:30–18:00 | Goya - The Hub

NOVEL MOLECULAR TARGETS IN ATRIAL FIBRILLATION

Symposium

Chairperson(s): L. Fabritz (Birmingham, UK); J. Fauconnier (Montpellier, FR)

- 16:30 **Atrial selective potassium channels: novel drug targets?** 5908
– D. Thomas (Heidelberg, DE)
- 16:52 **Targeting ion-channel trafficking: a novel therapeutic approach?** 5909
– E. Balse (Paris, FR)
- 17:15 **Phosphodiesterases: do we need atrial selective Viagra?** 5910
– C. Molina (Essen, DE)
- 17:37 **MicroRNAs: biomarker or therapeutic target in atrial fibrillation?** 5911
– S.N. Reilly (Oxford, UK)

16:30–18:00 | Miro - The Hub

EUROPEAN CERTIFICATION IN CARDIOLOGY: PRESENT & FUTURE

Symposium

Joint with the European Union of Medical Specialists

Chairperson(s): R. Krajewski (Warsaw, PL); F.J. Pinto (Lisbon, PT)

- 16:30 **European medical certification - Rules & responsibilities.** 5912
– To be announced
- 16:52 **European exams - MCQs production, MCQs review and standard settings (general cardiology).** 5913
– S. Price (London, UK)
- 17:15 **Why do we need certification (and re-certification) in cardiology?** 5914
– Z. Fras (Ljubljana, SI)
- 17:37 **The ESC vision on training and certification.** 5915
– P. Kirchhof (Birmingham, UK)

16:30–18:00 | Picasso - The Hub

REMODELLING AND CARDIOPROTECTION

Rapid Fire Abstract

Chairperson(s): E.K. Iliodromitis (Athens, GR); C.A. Remme (Amsterdam, NL)

- 16:30 **Mitochondrial translocation of DUSP5 and PHLPP-1, protein phosphatases targeting ERK and Akt, cancels cell-protective signals of mitochondrial protective kinases under oxidative stress.** 5916
– W. Ohwada, M. Tanno, A. Kuno, T. Yano, T. Miki, Y. Tatekoshi, K. Abe, T. Sato, S. Ishikawa, T. Miura (Sapporo, JP)
- 16:39 **Role of fibroblastic AMP-activated protein kinase alpha1 in left ventricular remodeling after myocardial infarction.** 5917
– C. Dufey, E.P. Daskalopoulos, G. Noppe, C. Bouzin, S.J. Conway, A. De Pauw, J.L. Balligand, L. Bertrand, C. Beauloye, S. Horman (Brussels, BE; Indianapolis, US)
- 16:48 **Ischemia-driven exosome release of human iPSC-CM-derived cardiomyocytes increase viability of endothelial cells via pro-survival factors.** 5918
– S. Malepu, H. Renikunta, N. Kraenkel, A. Kratzer, H. Giral, G. Hasenfuss, H. Stachelscheid, K. Streckfuss-Boemeke, U. Landmesser, P. Jakob (Berlin and Göttingen, DE)
- 16:57 **Sirtuin 5 deletion confers cerebral protection by attenuating blood brain barrier disruption in mice following middle cerebral artery occlusion.** 5919
– C. Diaz-Canestro, M. Merlini, N.R. Bonetti, P. Wuest, S. Briand, G.A. Kullak-Ublick, A. Akhmedov, T.F. Luscher, G.G. Camici (Zurich, CH; San Francisco, US)
- 17:06 **Dipeptidyl peptidase-4 inhibitor markedly enhances the cardioprotective efficacy of Sodium-glucose cotransporter-2 inhibitor in pre-diabetic rats with cardiac ischemia-reperfusion injury.** 5920
– P. Tanajak, P. Sa-Nguanmoo, S. Sivasinprasasn, S. Thummasorn, K. Intachai, N. Siri-Angkul, S.C. Chattipakorn, N. Chattipakorn (Chiang Mai, TH)
- 17:15 **miR-19a-3p containing exosomes improve cardiac function in ischemic myocardium.** 5921
– C. Tepekoylu, L. Poelzl, M. Graber, J. Hirsch, D. Lobenwein, J. Zipperle, M. Blumer, E. Kirchmair, R. Kirchmair, P. Paulus, S. Davidson, M. Grimm, J. Hofeld (Innsbruck, Vienna and Linz, AT; London, UK)
- 17:24 **A novel APJ ligand, ELABELA/Apela/Toddler, protects from pressure overload- and Angiotensin II-induced cardiac hypertrophy and fibrosis.** 5922
– T. Sato, C. Sato, A. Kadowaki, H. Watanabe, L. Ho, J. Ishida, T. Yamaguchi, A. Kimura, A. Fukamizu, J. Penninger, B. Reversade, H. Ito, Y. Imai, K. Kuba (Akita, Ibaraki and Tokyo, JP; Singapore, SG; Vienna, AT)
- 17:33 **Real-time cellular imaging of the beating heart in rat by using two-photon microscopy with an original stabilizer.** 5923
– R. Matsuura, S. Miyagawa, A. Harada, K. Toda, J. Kikuta, M. Ishii, Y. Sawa (Osaka, JP)
- 17:42 **Lack of the extracellular matrix proteoglycan lumican in mice exacerbates left ventricular dilatation and contractile dysfunction upon pressure overload.** 5924
– N. Mohammadzadeh, I.G. Lunde, K. Andenas, M.E. Strand, J.M. Aronsen, B. Skrbic, H.S. Marstein, C. Bandlien, S. Nygard, I. Sjaastad, S. Chakravarti, G. Christensen, K.V. Engebretsen, T. Tonnessen (Oslo, NO; Baltimore, US)

16:30–18:00 | Agora 1 - Agora

CORONARY MICROCIRCULATION

Rapid Fire Abstract

Chairperson(s): L. Galiuto (Rome, IT); B. Beleslin (Belgrade, RS)

- 16:30 **Novel diagnostic reference standard for microcirculatory dysfunction using perfusion cardiovascular magnetic resonance: validation against prognostic invasive markers of coronary physiology.** 5925
 – A. Liu, R.W. Wijesurendra, J.M. Liu, J.C. Forfar, K.M. Channon, S.K. Piechnik, S. Neubauer, R.K. Kharbanda, V.M. Ferreira (Oxford, UK)
- 16:39 **Long-term follow-up of patients with primary stable microvascular angina.** 5926
 – M. Filice, P. Lamendola, G. Russo, A. De Vita, L. Manfredonia, A. Villano, F.R. Spera, A. Argiro', E. Rota, M. Golino, G.A. Lanza, F. Crea (Rome, IT)
- 16:48 **Separate assessment of hyperaemic epicardial and microvascular conductance using coronary pressure and flow velocity.** 5927
 – N.W. Van Der Hoeven, G.A. De Waard, A. Quiros, A. De Hoyos, C. Broyd, S.S. Nijjer, R.S. Driessen, H. Mejia-Renteria, P.M. Van De Ven, P. Knaapen, J.J. Piek, J.E. Davies, N. Van Royen, J. Escaned (Amsterdam, NL; Madrid, ES; London, UK)
- 16:57 **Higher serum pleiotrophin levels are associated with better developed coronary collateral circulation.** 5928
 – P. Turker Duyuler, S. Duyuler, M. Gok, H. Kundi, C. Topcuoglu, U. Guray (Ankara, TR)
- 17:06 **Microvascular ischemia in patients with successful percutaneous coronary intervention: effects of ranolazine and isosorbide-5-mononitrate.** 5929
 – M. Golino, F.R. Spera, A. De Vita, G. Russo, L. Manfredonia, A. Di Franco, P. Lamendola, M. Filice, E. Rota, A. Argiro', G.A. Lanza, F. Crea (Rome, IT)
- 17:15 **Correlation of brachial flow-mediated vasodilatation and erectile dysfunction severity and association with coronary artery disease among CAD patients undergoing coronary angiography.** 5930
 – B.J. Calinawagan, A.T. Junia, E.K. Tiempo (Cebu City, PH)
- 17:24 **Hemorheological variables affect reperfusion injury and clinical outcome after elective or urgent percutaneous coronary intervention.** 5931
 – V. Vetrugno, F. Fracassi, A. Mandurino Mirizzi, M. Russo, F. Vergni, C. Trani, S. Panicale, P. Caprari, G. Niccoli, F. Crea (Rome, IT)
- 17:33 **Few protein biomarkers are related to coronary microvascular dysfunction assessed by RB82-PET in patients with no obstructive coronary artery disease.** 5932
 – J. Schroder, R. Zetner, K.B. Bove, N.D. Mygind, P. Hasbak, M.M. Michelsen, E. Prescott (Copenhagen, DK)
- 17:42 **Cutaneous microcirculatory function in patients with coronary artery disease and IL-6.** 5933
 – V. Boiko, G. Soboleva, A. Fedorovich (Moscow, RU)
- 17:51 **Impact of concordance or discordance between fractional low reserve and coronary flow reserve on coronary physiological indices and microvascular resistance after percutaneous coronary intervention.** 5934
 – E. Usui, T. Yonetsu, T. Lee, T. Murai, Y. Kanaji, M. Hoshino, M. Yamaguchi, T. Niida, M. Hada, S. Ichijo, R. Hamaya, Y. Kanno, T. Kakuta (Tsuchiura, JP)

16:30–18:00 | Agora 2 - Agora

OPTIMISING CARDIOVASCULAR PHARMACOTHERAPY

Rapid Fire Abstract

Chairperson(s): M.A. Alonso Garcia (London, UK); J.L. Tamargo (Madrid, ES)

- 16:39 **Effects of empagliflozin on cardiac and vascular hemodynamic markers by subgroups of age, sex and hypertension in patients with T2DM and high CV risk: EMPA-reg outcome.** 5935
 – R.J. Chilton, L. Gullestad, D. Fitchett, S.E. Inzucchi, M. Mattheus, H.J. Woerle, O.E. Johansen (San Antonio and New Haven, US; Oslo and Asker, NO; Toronto, CA; Ingelheim am Rhein, DE)
- 16:48 **Beneficial effect of beta-blockers on clinical outcomes persist after discontinuation in patients with ST elevation myocardial infarction?** 5936
 – J.-S. Park, K.-W. Seo, H.-M. Yang, H.-S. Lim, B.-J. Choi, S.-Y. Choi, M.-H. Yoon, G.-S. Hwang, S.-J. Tahk, J.-H. Shin (Suwon, KR)
- 16:57 **Monocyte chemoattractant protein-1 level and (-75)G/A polymorphism of APOA1 gene predict response and resistance to intensive statin therapy in very high cardiovascular risk patients.** 5937
 – M. Vorobyeva, O. Gigani, S. Villevalde, M. Azova, Z. Kobalava (Moscow, RU)
- 17:06 **Efficacy of evinacumab in homozygous familial hypercholesterolemia patients with null or non-null LDL-receptor mutations and on various background therapies.** 5938
 – G.K. Hovingh, D.A. Gipe, Z. Ahmad, M. Cuchel, P. Shah, K.Y. Chyu, R. Pordy, W.J. Sasiela, K.C. Chan, E. Khoury, D. Gaudet (Amsterdam, NL; Tarrytown, Dallas, Philadelphia and Los Angeles, US; Chicoutimi and Quebec, CA)
- 17:15 **Cardioprotective drugs in breast cancer treated with trastuzumab: a systematic review and meta-analysis.** 5939
 – H. Mustafic, K. Hasni, A. Celebic, N. Mansencal, F. Mach, H. Mueller (Geneva, CH; Podgorica, ME; Boulogne-Billancourt, FR)
- 17:24 **Riociguat ameliorates right ventricular function in patients with pulmonary hypertension.** 5940
 – M. Murata, T.K. Kawakami, M.K. Kataoka, Y.M. Minakata, J.E. Endo, H.T. Tsuruta, Y.I. Itabashi, Y.M. Maekawa, K.F. Fukuda, M.M. Murata (Tokyo, JP)
- 17:33 **The beneficial effects of renin angiotensin system blockades on two years outcomes in coronary artery ectasia patients.** 5941
 – Y.T. Wang, W.H. Song, Y.J. Wu (Beijing, CN)
- 17:42 **Stroke rate after long-term antiplatelet medication strategy in percutaneous coronary intervention patients using Korean National Health Insurance Service (NHIS) customized health information database.** 5942
 – K.M. Lee, M.H. Kim, S.Y. Choi, S.J. Kim, J.S. Park, S.Y. Kang, V. Serebruanu (Busan and Daegu, KR; Towson, US)
- 17:51 **Clinical efficacy of the combination of atorvastatin and perindopril in prevention of cardiovascular outcomes and mortality among high-risk hypertensive patients randomized to the ASCOT-LLA trial.** 5943
 – A.K. Gupta, N. Poulter, C. Ariti (London, UK)

16:30–18:00 | Dublin - Village 1

MICROVESICLES: NOVEL COMMUNICATORS IN VASCULAR BIOLOGY

Symposium

Chairperson(s): C.M. Boulanger (Paris, FR); C. Emanuelli (Bristol, UK)

- 16:30 **Role of platelet-derived microvesicles as crosstalk mediators in atherothrombosis.** 5944
 – L. Badimon (Barcelona, ES)
- 16:52 **Neutrophil microvesicles: novel players in atherogenesis.** 5945
 – V. Ridger (Sheffield, UK)
- 17:15 **The ambivalent role of microvesicles in haemostasis.** 5946
 – R. Lacroix (Marseille, FR)
- 17:37 **Microvesicles as biomarkers for coronary heart disease.** 5947
 – D. De Kleijn (Utrecht, NL)

16:30–18:00 | Fira - Village 1

VASCULAR SMOOTH MUSCLE IN DEVELOPMENT AND GENETIC DISEASE

Advances in Science

Chairperson(s): C. Weber (Munich, DE); P. Evans (Sheffield, UK)

- 16:30 **State of the Art: vascular smooth muscle in development and genetic disease.** 5948
– G. Owen (Washington, US)
- 16:48 **Modeling Loeys-Dietz syndrome vascular pathological features with patient specific iPSC-derived vascular smooth muscle cells.** 5949
– K. Hu, J. Li, Y. Wan, K. Zhu, J.M. Chen, D.Q. Liu, Y.L. Wang, S.Y. Lu, Y.X. Sun, H. Lai, T. Hong, C.S. Wang (Shanghai and Guiyang, CN)
- 17:06 **Mechanisms of smooth muscle cell differentiation are differently altered in BAV and TAV associated thoracic aneurysms.** 5950
– A. Malashicheva, E. Ignatieva, D. Kostina, A. Kostina, O. Irtyuga, A. Shishkova, O. Moiseeva, A. Kostareva (St. Petersburg, RU)
- 17:24 **Insight in vascular fragility induced by collagen structural change using ultrafast ultrasound imaging in a col3a1 knock-in gly183arg mutation mouse model mimicking vascular Ehlers-Danlos syndrome.** 5951
– G. Goudot, T. Mirault, V. Baudrie, I. Ferreira, M. Tanter, X. Jeunemaitre, M. Pernot, E. Messas (Paris, FR)
- 17:42 **What is new in diagnostic and treatment of inherited arteriopathies.** 5952
– E. Arbustini (Pavia, IT)

16:30–18:00 | Astana - Village 2



CARDIOVASCULAR CHALLENGES OF ANTICANCER THERAPY

Case-based Symposium

Chairperson(s): T. Lopez Fernandez (Madrid, ES); F. Mookadam (Scottsdale, US)

- 16:30 **70 year old female with pancreatic cancer and syncope.** 5953
– S.R. Ulmoen (Rud, NO)
- 17:00 **60 year old male with previous acute myocardial infarction and mild heart failure in need of chemotherapy for lymphoma.** 5954
– S. Muscoli (Rome, IT)
- 17:30 **Anticancer therapy and cardiac toxicity - State of the Art.** 5955
– T.M. Suter (Bern, CH)

16:30–18:00 | Pristina - Village 2

LOWER TARGETS FOR HYPERTENSION?

Advances in Science

Chairperson(s): A.J. Manolis (Voula and Athens, GR); M. Viigimaa (Tallinn, EE)

- 16:30 **State of the Art: is it blood pressure target or quality of control that counts?** 5956
– M. Böhm (Homburg, DE)
- 16:48 **Target of blood pressure treatment for the general elderly population: a systematic review and meta-analysis.** 5957
– C.J. Huang, C.E. Chiang, K. Kario, T.D. Wang, S.H. Sung, C.H. Chen, W.T. Wang, Y.L. Cheng, W.M. Huang, Y.J. Chen, H.M. Cheng (Taipei, TW; Tochigi, JP)
- 17:06 **The relation between systolic blood pressure and mortality in hypertensive patients with different blood pressure targets: the J-curve revisited.** 5958
– T.F. Brouwer, J.T. Vehmeijer, D.N. Kalkman, W.R. Berger, B.J. Van Den Born, R.J. Peters, R.E. Knops (Amsterdam, NL)
- 17:24 **Changes in systolic blood pressure over time as predictor of major cardiovascular events: a joint model analysis of the SPRINT trial.** 5959
– O.L. Rueda-Ochoa, L.Z. Rojas Sanchez, O.H. Franco, D. Rizopoulos, M. Kavousi (Rotterdam, NL; Bucaramanga, CO)
- 17:42 **Do we really know how common hypertension is?** 5960
– A.E. Schutte (Potchefstroom, ZA)

16:30–18:00 | Beirut - Village 3

ADVANCED ECHOCARDIOGRAPHY – WHEN TO USE WHICH TECHNOLOGY?

Symposium

Chairperson(s): W. Kong (Singapore, SG); J. Gorcsan (Pittsburgh, US)

- 16:30 **Handheld echo devices.** 5961
– J.D. Thomas (Chicago, US)
- 16:52 **Strain imaging.** 5962
– B. Griffin (Cleveland, US)
- 17:15 **Contrast echocardiography.** 5963
– S. Mulvagh (Rochester, US)
- 17:37 **3D echocardiography.** 5964
– D. Leung (Liverpool, AU)



16:30–18:00 | Chisinau - Village 4

CHOLESTEROL-LOWERING THERAPY FOR PRIMARY AND SECONDARY PREVENTION

Advances in Science

Chairperson(s): L. Bowman (Oxford, UK); R.G. Xuereb (Ta' Xbiex, MT)

- 16:30 **State of the Art: cholesterol-lowering therapy for primary and secondary prevention.** 5965
– J. Robinson (Iowa City, US)
- 16:48 **Proprotein convertase subtilisin/kexin type 9 (PCSK9) inhibitors and incident type 2 diabetes mellitus: a systematic review and meta-analysis with over 10,000 patients.** 5966
– L.S.F. Carvalho, A.M. Campos, A.C. Sposito (Campinas and Brasilia, BR)
- 17:06 **Effect of the magnitude of LDL lowering on the incidence of cataract among patients treated with statins or PCSK9 antibodies.** 5967
– J.B. Kostis, J.M. Dobrzynski, W.J. Kostis, D. Sargsyan (New Brunswick, US)
- 17:24 **Comparison of the low-density lipoprotein cholesterol target value and the preventive effect of statins in elderly patients and younger patients.** 5968
– A. Endo, T. Okada, Y. Kagawa, M. Pak, S. Ito, T. Ouchi, N. Watanabe, K. Yamaguchi, H. Yoshitomi, K. Tanabe (Izumo, JP)
- 17:42 **Lipid-lowering therapy in primary prevention: where will we be 10 years from now.** 5969
– A. Catapano (Milan, IT)

16:30–18:00 | Vilnius - Village 4

MAXIMISING THE BENEFITS OF CARDIAC REHABILITATION

Advances in Science

Chairperson(s): I. Frederix (Rotselaar, BE); M. Mendes (Carnaxide, PT)

- 16:30 **State of the Art: cardiac rehabilitation: maximising benefits.** 5970
– L.E.M. Vanhees (Leuven, BE)
- 16:48 **Effect of cardiac rehabilitation dose on mortality and morbidity: how low can we go - a systematic review and meta-regression.** 5971
– C. Santiago De Araujo Pio, S. Marzolini, M. Pakosh, S.L. Grace (Toronto, CA)
- 17:06 **Impact of age and gender on cardiac rehabilitation uptake in percutaneous coronary intervention patients.** 5972
– A. Al Quait, P. Doherty (York, UK)
- 17:24 **Randomised clinical trial of comprehensive rehabilitation for patients treated for atrial fibrillation with ablation: long-term impact on quality of life and physical capacity.** 5973
– S.S. Risom, A.D. Zwisler, T.B. Rasmussen, K.L. Sibillitz, T.L.S. Madsen, J.H. Svendsen, R.S. Taylor, S.K. Berg (Copenhagen, Odense and Gentofte, DK; Exeter, UK)
- 17:42 **Cardiac rehabilitation and exercise training for cardiomyopathies.** 5974
– S. Saberli (Michigan, US)

16:30–18:00 | Skopje - Village 5

ADVANCES IN ABLATION FOR ATRIAL FIBRILLATION

Advances in Science

Chairperson(s): J.-C. Deharo (Marseille, FR); K.-H. Kuck (Hamburg, DE)

- 16:30 **State of the Art: when, who and how of atrial fibrillation ablation.** 5975
– C. Piorkowski (Dresden, DE)
- 16:48 **Very long-term outcome following transcatheter ablation of atrial fibrillation. Are results maintained after 10 years of follow up?** 5976
– A. Battaglia, M. Matta, M. Scaglione, C. Gallo, M. Galata', D. Caponi, P. Di Donna, M. Anselmino, F. Gaita (Turin and Asti, IT)
- 17:06 **The interplay between left ventricular function and diffuse fibrosis in patients with atrial fibrillation undergoing ablation: insights from a prospective longitudinal cardiac magnetic resonance study.** 5977
– R. Wijesurendra, A. Liu, C. Eichhorn, T.D. Karamitsos, Y. Bashir, M. Ginks, K. Rajappan, T. Betts, S.K. Piechnik, V.M. Ferreira, S. Neubauer, B. Casadei (Oxford, UK)
- 17:24 **Critical role of non-pulmonary vein triggers in patients with atrial fibrillation referred after two or more failed catheter ablations.** 5978
– S. Mohanty, P. Mohanty, C. Trivedi, C. Gianni, J.D. Burkhardt, J. Sanchez, R. Horton, G.J. Gallinghouse, P. Hranitzky, R. Hongo, S. Beheiry, A. Natale (Austin and San Francisco, US)
- 17:42 **Ablation for atrial fibrillation: can we do any better?** 5979
– L. Di Biase (New York, US)

16:30–18:00 | Valetta - Village 5



CLINICALLY IMPORTANT ASPECTS OF CARDIOMYOPATHY

Symposium

Chairperson(s): M. Arad (Ramat Gan, IL); P. Garcia-Pavia (Majadahonda, ES)

- 16:30 **Hypertrophic cardiomyopathy in the guidelines and recent trials - Who needs an ICD?** 5980
– P.M. Elliott (London, UK)
- 16:52 **How to stratify the risk of sudden death in dilated cardiomyopathy.** 5981
– Y. Pinto (Amsterdam, NL)
- 17:15 **Rare treatable cardiomyopathies - Current knowledge.** 5982
– A. Linhart (Prague, CZ)
- 17:37 **Cardiac sarcoidosis - State of the Art.** 5983
– L. Blauwet (Rochester, US)

16:30–18:00 | Luxembourg - Village 6



TREATING VALVES CORRECTLY

Guidelines in Daily Practice

Chairperson(s): S. Baldus (Cologne, DE); B.D. Prendergast (London, UK)

- 16:30 **An intermediate-risk patient with symptomatic severe aortic stenosis.** 5984
– H. Eltchaninoff (Rouen, FR)
- 16:45 **An intermediate-risk patient with symptomatic severe aortic stenosis - What do the guidelines say?** 5985
– To be announced
- 17:00 **An intermediate-risk patient with symptomatic severe aortic stenosis. How to implement Guidelines – Panel discussion.** 5986
– R. Asteggiano (Turin, IT), C.M. Otto (Seattle, US)
- 17:10 **An intermediate-risk patient with symptomatic severe aortic stenosis - Conclusion and take home message.** 5987
– S. Baldus (Cologne, DE)
- 17:15 **A frail elderly patient with primary mitral regurgitation.** 5988
– J. Kempfert (Berlin, DE)
- 17:30 **A frail elderly patient with primary mitral regurgitation - What do the guidelines say?** 5989
– V. Delgado (Leiden, NL)
- 17:45 **A frail elderly patient with primary mitral regurgitation. How to implement Guidelines – Panel discussion.** 5990
– J. Magne (Limoges, FR), F. Maisano (Zurich, CH)
- 17:55 **A frail elderly patient with primary mitral regurgitation - Conclusion and take home message.** 5991
– B.D. Prendergast (London, UK)

16:30–18:00 | Podgorica - Village 6



OPTIMISATION OF PRIMARY PCI

Advances in Science

Chairperson(s): T. Engstrom (Copenhagen, DK); A. Iniguez Romo (Vigo, ES)

- 16:30 **State of the Art: primary PCI.** 5992
– M. Sabate Tenas (Barcelona, ES)
- 16:48 **Radial vs. Ulnar artery anomalies in STEMI patients: 6 year results from routine Wrist artery angiography.** 5993
– B. Zafirovska Taleska, D. Petkoska, I. Vasilev, A. Jovkovski, H. Taravari, M. Boshev, D. Kitanovski, S. Kedev (Skopje, MK)
- 17:06 **Use of drug eluting stents compared to bare metal stents in ST segment elevation myocardial infarction is associated with reduced mortality and cardiovascular outcomes: results from the TOTAL trial.** 5994
– S. Lavi, J. Iqbal, J. Cairns, W.J. Cantor, A. Chema, R. Moreno, B. Meeks, R. Welsh, S. Kedev, S. Chowdhary, G. Stankovic, J. Schwalm, Y. Liu, S. Jolly, V. Dzavik (London, Vancouver, Newmarket, Toronto, Hamilton and Edmonton, CA; Sheffield and Manchester, UK; Madrid, ES; Skopje, MK; Belgrade, RS)
- 17:24 **How important is the anticoagulant strategy in primary percutaneous coronary intervention? Insights from the ATLANTIC study.** 5995
– M. Kerneis, A. Bagai, K. Huber, J. Silvain, C.W. Hamm, F. Lapostolle, J.F. Lassen, A. Tsatsaris, A. Diallo, E. Vicaut, W.J. Cantor, S.G. Goodman, A.W. Van' T Hof, G. Montalescot (Paris and Bobigny, FR; Toronto, CA; Vienna, AT; Bad Nauheim, DE; Aarhus, DK; Luton, UK; Zwolle, NL)
- 17:42 **Primary PCI in multivessel disease patients.** 5996
– R. Kornowski (Petah Tikva, IL)

16:30–18:00 | Rabat - Village 7

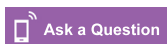
INTERVENTIONS IN THE PULMONARY CIRCULATION

Advances in Science

Chairperson(s): T. Ogo (Suita, JP); G. Simonneau (Clamart, FR)

- 16:30 **State of the Art: catheter-directed techniques in acute and chronic thromboembolic pulmonary disease.** 5997
– E. Mahmud (San Diego, US)
- 16:48 **Echocardiographic improvement after short-duration, low-dose tPA regimens for ultrasound-facilitated, catheter-based fibrinolysis in submassive PE: OPTALYSE-PE.** 5998
– G. Piazza, A. Sharp, K. Sterling, V. Tapson, S.Z. Goldhaber (Boston, Alexandria and Los Angeles, US; Exeter, UK)
- 17:06 **Comprehensive evaluation of the effectiveness and safety of balloon pulmonary angioplasty for inoperable chronic thromboembolic pulmonary hypertension - long-term effects and complications.** 5999
– T. Aoki, K. Sugimura, S. Tatebe, M. Miura, S. Yamamoto, N. Yaoita, H. Suzuki, H. Sato, K. Kozu, R. Konno, K. Nochioka, K. Satoh, H. Shimokawa (Sendai, JP)
- 17:24 **Lesion morphology, not hemodynamic parameters, is an independent predictor of complications of balloon pulmonary angioplasty.** 6000
– N. Ikeda, H. Takenaka, N. Kogame, S. Kubota, T. Okazaki, R. Iijima, H. Hara, Y. Hiroi, M. Nakamura (Tokyo, JP)
- 17:42 **Catheter-directed treatment of CTEPH: the future gold standard?** 6001
– I.M. Lang (Vienna, AT)

16:30–18:00 | Bucharest - Village 8



ACUTE CORONARY SYNDROMES IN CHALLENGING SITUATIONS

Meet the Experts case discussions

Chairperson(s): A. Bhagwat (Aurangabad, IN); M. Roffi (Geneva, CH)

- 16:30 **Acute coronary syndromes in challenging situations - Introduction to the session.** 6002
– M. Roffi (Geneva, CH)
- 16:35 **NSTEMI in a very old patient: anything different?** 6003
– D. Perera (London, UK)
- 16:45 **NSTEMI in a very old patient: anything different? Panel discussion and questions from the audience.** 6004
– D.J. Angiolillo (Jacksonville, US), K.K. Yeo (Singapore, SG)
- 17:00 **NSTEM after non-cardiac surgery.** 6005
– G. Ducrocq (Paris, FR)
- 17:10 **NSTEM after non-cardiac surgery - Panel discussion and questions from the audience.** 6006
– D.J. Angiolillo (Jacksonville, US), K.K. Yeo (Singapore, SG)
- 17:25 **STEMI patient at very high risk of bleeding.** 6007
– O. Mendiz (La Lucila, AR)
- 17:35 **STEMI patient at very high risk of bleeding - Panel discussion and questions from the audience.** 6008
– D.J. Angiolillo (Jacksonville, US), K.K. Yeo (Singapore, SG)
- 17:50 **Acute coronary syndromes in challenging situations - Take home message on the cases presented.** 6009
– A. Bhagwat (Aurangabad, IN)

16:30–18:00 | Tripoli - Village 8

P2Y12 INHIBITORS IN ACUTE CORONARY SYNDROMES

Advances in Science

Chairperson(s): D. Capodanno (Catania, IT); Y. Han (Shenyang, CN)

- 16:30 **State of the Art: P2Y12 inhibitors in acute coronary syndromes.** 6010
– D.L. Bhatt (Newton, US)
- 16:48 **Outcomes in patients treated with ticagrelor versus clopidogrel after acute myocardial infarction in relation to renal function: 1-year SWEDEHEART registry data.** 6011
– R. Edfors, A.S. Sahlen, K.S. Szummer, H.R. Renlund, M.E. Evans, J.J. Carrero, J.S. Spaak, B.L. Lagerqvist, S.J. James, C.V. Varenhorst, T.J. Jernberg (Stockholm and Uppsala, SE; Singapore, SG)
- 17:06 **Comparative efficacy and safety of ticagrelor vs. prasugrel in patients undergoing PCI for NSTEMI-ACS. Results of the prospective ALKK-Registry.** 6012
– P. Riedmaier, M. Hochadel, H. Ince, H. Darius, T. Hoffmeister, R. Zahn, U. Zeymer (Ludwigshafen, Berlin and Solingen, DE)
- 17:24 **The efficacy of early versus delayed P2Y12 inhibition in percutaneous coronary intervention for ST-elevation myocardial infarction: a systematic review and meta-analysis.** 6013
– A. Bellemain-Appaix, C. Begue, D.L. Bhatt, K. Ducci, R.A. Harrington, M.T. Roe, S.D. Wiviott, M. Cucherat, J. Silvain, J.P. Collet, F. Bemasconi, G. Montalescot (Antibes, Paris and Lyon, FR; Boston, Stanford and Durham, US; Arezzo, IT)
- 17:42 **Future perspectives for antithrombotic strategy after acute coronary syndromes.** 6014
– R.F. Storey (Sheffield, UK)

■ 16:30–18:00 | Warsaw - Village 9

DRUG TREATMENT OF ACUTE HEART FAILURE**Symposium**

Chairperson(s): J.T. Parissis (Athens, GR); T.A. Schmidt (Holbæk, DK)

- | | | |
|-------|--|-------------|
| 16:30 | Drugs in acute heart failure: what do the ESC Guidelines say? | 6015 |
| | – E.A. Jankowska (Wrocław, PL) | |
| 16:52 | New drugs for the treatment of acute heart failure. | 6016 |
| | – A.A. Voors (Groningen, NL) | |
| 17:15 | Heart failure medication: considerations in diabetes. | 6017 |
| | – G.M.C. Rosano (London, UK) | |
| 17:37 | Learning from failed drug and failed concepts: looking into the future of drug treatment for acute heart failure. | 6018 |
| | – J.-S. Hulot (Paris, FR) | |

BEST POSTERS 7

Best Posters

Discussant intervention 15:35–16:25

Best Posters are on display from 14:00 to 18:00 on the Best Posters plasma screen of the related topic. During the viewing time (15:35–16:25), a discussant will visit the presenters to animate discussions, the screen will be shared in 4 parts and each poster will take, in turns, full screen to allow time for Poster discussion.

BEST POSTERS IN AORTIC DISEASE

- Discussant: Best Posters in aortic disease.** P6019
– A. Evangelista Masip (Barcelona, ES), B. Rylski (Freiburg, DE)
- Histopathologic substrates and clinical correlations in type A acute aortic syndromes.** P6020
– A. Foa', A. Corsini, G. Norscini, V. Agostini, D. Pacini, G. Melandri, R. Di Bartolomeo, O. Leone, C. Rapezzi (Bologna, IT)
- Rule-out of acute aortic syndrome by integration of the aortic dissection detection risk score plus d-dimer: preliminary data from the ADVISED prospective multicenter study.** P6021
– F. Morello, P. Nazerian, C. Mueller, A. Soeiro, B.A. Leidel, S. Salvadeo, F. Giachino, S. Vanni, K. Grimm, M. Tavares De Oliveira, M.G. Veglio, S. Gualtieri, S. Grifoni, E. Lupia (Turin, Florence and Pavia, IT; Basel, CH; São Paulo, BR; Berlin, DE)
- Aortic geometry in marfan syndrome in relation to age: a 4D-flow CMR-derived study.** P6022
– A. Guala, L. Dux-Santoy, G. Teixido-Tura, J. Rodriguez-Palomares, G. Maldonado, N. Villalba, F. Valente, L. Galian, F. Huguet, L. Gutierrez, T. Gonzalez-Alujas, R. Fernandez, A. Sao-Aviles, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)
- Fluoroquinolone use and risk of aortic aneurysm: nationwide cohort study in Sweden.** P6023
– B. Pasternak, M. Inghammar, H. Svanstrom (Stockholm and Lund, SE; Copenhagen, DK)

BEST POSTERS IN STRESS ECHOCARDIOGRAPHY

- Discussant: Best Posters in stress echocardiography.** P6024
– D. Klettas (London, UK), R. Senior (London, UK)
- A management strategy based on exercise echocardiography is more cost-effective than exercise ecg in patients presenting with suspected angina during long term follow up: a randomised study.** P6025
– S. Gurunathan, K. Zacharias, M. Akhtar, A. Ahmed, V. Mehta, N. Karogiannis, A. Vamvakidou, R. Khattar, R. Senior (Harrow and London, UK)
- Diagnostic concordance and clinical outcomes in patients undergoing fractional flow reserve and stress echocardiography for the assessment of coronary stenosis of intermediate severity.** P6026
– S. Gurunathan, A. Ahmed, N. Karogiannis, I.S. Ramzy, A. Vamvakidou, G. Young, S. Zidros, M. Akhtar, A. Elghamaz, R. Senior (Harrow and London, UK)
- Ergonovine stress echocardiography for the diagnosis of vasospastic angina and its prognostic implications in 3094 consecutive patients.** P6027
– Y.J. Song, S.Y. Yoo, S.J. Ha, W.D. Bang, W.K. Lee, S.S. Cheong, H. Samady (Gangneung, KR; Atlanta, US)
- The role of mitral regurgitation of either primary and secondary origin on left atrial dynamics during exercise: insights from exercise echocardiography combined with gas exchange analysis.** P6028
– T. Sugimoto, F. Bandera, G. Generati, E. Alfonzetti, V. Tufaro, M. Guazzi (Milan, IT)

BEST POSTERS IN ADVANCED HEART FAILURE

- Discussant: Best Posters in advanced heart failure.** P6029
– G. Ertl (Würzburg, DE), P. Seferovic (Belgrade, RS)
- Levels of various microRNAs are altered in endomyocardial biopsies during acute cellular rejection in patients after heart transplantation.** P6030
– J. Novak, T. Machackova, J. Sana, T. Kafunkova, J. Godava, P. Hude, V. Zampachova, P. Nemeč, H. Bedanova, O. Slaby, J. Bienertova-Vasku, J. Krejci, L. Spinarova (Brno, CZ)
- Impact of symptomatic peripheral arterial disease on adverse outcomes, poor graft survival and length of hospital stay following heart transplantation: insights from the UNOS database (1988-2014).** P6031
– P. Gunasekaran, T. Bickel, S. Nadella, D. Parashara, B. Dawn (Kansas City, US)
- Personalized risk prediction for wait-list and post-transplant mortality in cardiac transplantation: machine learning using predictive clusters.** P6032
– A. Banerjee, J. Yoon, W.R. Zame, M. Cadeiras, A.M. Alaa, M. Van Der Schaar (London, UK; Los Angeles, US)
- Impaired myocardial mitochondrial function correlates with inflammatory cell burden in humans following heart transplantation.** P6033
– D. Scheiber, T. Jelenik, P. Horn, H.-P. Schultheiss, D. Lassner, U. Boeken, D. Saeed, M. Kelm, M. Roden, J. Szendroedi, R. Westenfeld (Düsseldorf and Berlin, DE)

BEST POSTERS IN PREVENTION

Discussant: Best Posters in prevention.	P6034
– D.E. Grobbee (Utrecht, NL), E. Di Angelantonio (Cambridge, UK)	
The long-term prognostic value of radiofrequency intravascular ultrasound for major adverse cardiovascular events in patients with coronary artery disease during 4.7-years follow-up.	P6035
– A. Schuurman, M. Vroegindewey, I. Kardys, R.M. Oemrawsingh, H.M. Garcia-Garcia, R.J. Van Geuns, E.S. Regar, N. Van Mieghem, W. Koenig, P.W. Serruys, E. Boersma, K.M. Akkerhuis (Rotterdam, NL; Washington, US; Ulm, DE; London, UK)	
Physical exercise- mediated effects on left ventricular diastolic function outweigh other modifiable risk factors in coronary artery disease patients.	P6036
– A. Boscheri, B. Haller, J. Christle, M. Guazzi, M. Halle (Munich, DE; Stanford, US; Milan, IT)	
Beta-blocker dose is associated with mortality after myocardial infarction - a nationwide study.	P6037
– S.B. Pedersen, J.C. Nielsen, H.E. Botker, A. Udupi, J.J. Goldberger (Aarhus, DK; Miami, US)	
Treatment gaps and potential cardiovascular risk reduction from expanded statin use in the US and England.	P6038
– P. Ueda, T.W.C. Lung, Y. Lu, J. Salomon, K. Rahimi, P. Clarke, G. Danaei (Stockholm, SE; Sydney and Melbourne, AU; New Haven and Boston, US; Oxford, UK)	

BEST POSTERS IN PLATELETS

Discussant: Best Posters in platelets.	P6039
– S. Massberg (Munich, DE), S. Fateh-Moghadam (Tübingen, DE)	
Extracellular cyclophilin a augments platelet-dependent thrombosis and thrombo-inflammation without affecting physiological hemostasis.	P6040
– S. Von Ungern-Sternberg, S. Vogel, B. Walker-Allgaier, S. Geue, D. Heinzmann, M. Chatterjee, E. Kremmer, O. Borst, P. Loughran, A. Zernecke, M. Neal, T. Billiar, A. May, M. Gawaz, P. Seizer (Tübingen, Munich and Würzburg, DE; Pittsburgh, US)	
Dose dependent inhibitory and stimulatory effects of sphingosine-1-phosphate on platelet adhesion to endothelium.	P6041
– B. Knoop, B. Levkau, A. Ayhan, A. Mohring, K. Playda, L. Dannenberg, M. Kelm, T. Zeus, A. Polzin (Düsseldorf and Essen, DE)	
Establishing Syto 13 as an alternative dye for the cytometric evaluation of RNA-rich immature platelets.	P6042
– M. Cederqvist, C. Stratz, T. Nuhrenberg, L. Hille, F.-J. Neumann, D. Trenk (Bad Krozingen, DE)	
Single cell transcriptome analysis in living human platelets from healthy subjects and CAD patients.	P6043
– C. Zara, R. D'Alessandro, M. Brambilla, M. Chiesa, E. Tremoli, M. Camera (Milan, IT)	

BEST POSTERS IN CONGENITAL HEART DISEASES

Discussant: Best Posters in congenital heart diseases.	P6044
– E. Orchard (Oxford, UK), To be announced	
Improved outcome in critical congenital heart disease by use of alternative to palliative arterial shunts.	P6045
– Z. Drobni, C. Costache, P. Walker-Smith, A. Parry, S. Stoica, M. Caputo, R. Tulloh (Bristol, UK)	
The hemodynamic effect of oral pulmonary vasodilator therapy on fenestrated fontan circulation and fenestration closure.	P6046
– T. Dagan, E. Bruchheimer, G. Amir, G. Frenkel, E. Birk (Petah Tikva, IL)	
Comparison of different anticoagulation regimens in pregnant patients with mechanical prosthetic heart valves.	P6047
– M. Kalcik, E. Bayam, M. Yesin, S. Gunduz, M.O. Gursoy, S. Karakoyun, S. Cersit, A. Kilicgedik, A. Guner, S. Kalkan, A. Erdem, R. Demirbag, M. Ozkan (Çorum, Istanbul, Kars, Izmir, Sanliurfa and Ardahan, TR)	
Pregnancy in women with ventricular dysfunction: data from the European Society of Cardiology Registry of Pregnancy and Cardiac Disease (ROPAC).	P6048
– L. Baris, A. Shotan, I.M. Van Hagen, M.R. Johnson, R. Hall, J.W. Roos-Hesselink (Rotterdam, NL; Hadera, IL; London and Norwich, UK)	

BEST POSTERS IN HYPERTENSION BASIC RESEARCH

Discussant: Best Posters in hypertension basic research. P6049
– S. Padmanabhan (Glasgow, UK), F. Mahfoud (Homburg, DE)

Progression of vascular changing and hypertensive retinopathy during bradykinin B1 receptor antagonist treatment in SHR rats. P6050

– L. Deres, K. Szabadfi, K. Eros, M. Wilhelm, C.S. Cseko, J. Matuz, S. Farkas, R. Gabriel, K. Toth, R. Halmosi (Pécs and Budapest, HU)

Associations of microRNAs gene expression and left ventricular global longitudinal peak strain in patients with essential hypertension. P6051

– M. Marketou, J. Kontaraki, F. Parthenakis, J. Konstantinou, A. Patrianakos, M. Stavroulaki, H. Nakou, D. Papadopoulos, K. Roufas, J. Logakis, D. Vougia, M. Vernardos, K. Fragiadakis, P. Vardas (Heraklion, GR)

Long non coding RNA levels in hypertensive patients and their relation to left ventricular hypertrophy. P6052

– J. Kontaraki, M. Marketou, F. Parthenakis, G. Kochiadakis, J. Konstantinou, M. Stavroulaki, M. Vernardos, D. Lempidakis, E. Kouvidis, O. Theodosaki, P. Tsiverdis, J. Logakis, P. Vardas (Heraklion, GR)

Increased alpha2B-adrenergic receptors gene expression in platelets from patients with not adequately controlled essential hypertension. P6053

– M. Marketou, J. Kontaraki, F. Parthenakis, K. Roufas, A. Patrianakos, G. Kochiadakis, P. Tsiverdis, D. Lempidakis, E. Zacharis, K. Fragiadakis, A. Daskalakis, G. Mpantouvakis, P. Vardas (Heraklion, GR)

BEST POSTERS IN IN ATRIAL FIBRILLATION SCREENING - MANAGEMENT AND PROGNOSIS

Discussant: Best Posters in atrial fibrillation screening - Management and prognosis. P6054
– B. Gorenek (Eskisehir, TR), To be announced

Impact of atrial fibrillation in pregnancy: an analysis from the nationwide inpatient sample. P6055

– V.R. Vaidya, D. Padmanabhan, K. Kancharla, S. Bhatia, A.O. Badheka, A.J. Deshmukh (Rochester, US)

Electrogram mapping of human atria at sites where localized ablation terminates persistent atrial fibrillation. P6056

– J.A.B. Zaman, M. Alhuseini, C.A.B. Kowalewski, T. Baykaner, R.T. Borne, S. Busch, M.V. Viswanathan, P.J. Wang, J. Brachmann, W.H. Sauer, J.M. Miller, D.E. Krummen, W.J. Rappel, S.M. Narayan, N.S. Peters (Stanford, Denver, Indianapolis and San Diego, US; Coburg, DE; London, UK)

Increased yield for repeated handheld ECG screening at 6-12 month intervals to detect atrial fibrillation during outpatient clinic reviews. P6057

– B.P.Y. Yan, L.L.Y. Chan, W. Sun, G. Tse, O.T.L. To, V.W.Y. Lee, B. Freedman (Hong Kong, HK; Sydney, AU)

Incidence and prognosis of atrial fibrillation in Denmark from 1995-2012. P6058

– M.N. Christiansen, L. Koeber, C. Torp-Pedersen, C. Andersson (Copenhagen and Aalborg, DK)

BEST POSTERS IN STABLE CAD

Discussant: Best Posters in stable CAD. P6059
– M.-E. Estensen (Oslo, NO), U. Sechtem (Stuttgart, DE)

Diagnostic and prognostic efficacy of coronary flow capacity obtained using pressure-temperature wire-derived physiological indices. P6060

– R. Hamaya, T. Yonetsu, T. Murai, Y. Kanaji, E. Usui, M. Hoshino, M. Yamaguchi, M. Hada, T. Niida, S. Ichijo, Y. Kanno, T. Kakuta (Tsuchiura, JP)

Prognosis of multi-vessel vasospastic angina: results from VA-KOREA (Vasospastic angina in Korea) registry. P6061

– S.H. Han, D.I. Shin, S.H. Her, Y.K. Ahn, K.H. Park, D.S. Kim, T.H. Yang, D.J. Choi, J.W. Seo, H.M. Kwon, B.K. Lee, H.C. Gwon, S.W. Rha, S.H. Jo, S.H. Baek (Incheon, Daejeon, Gwangju, Busan, Seongnam, Seoul, Anyang-si and Gyeonggi-do, KR)

Predicting outcome with normal-range high-sensitivity troponin i and heart-type fatty acid-binding protein in stable patients with suspected coronary artery disease. P6062

– J.S. Wolter, S. Kriebbaum, N. Osman, C. Trold, U. Fischer-Rasokat, L. Gaede, H. Moellmann, H. Nef, T. Keller, A. Berkowitsch, A. Rolf, K.J. Lackner, C.W. Hamm, C. Liebetrau (Bad Nauheim, Giessen and Mainz, DE)

Kinetics of circulating microRNAs in response to cardiac stress in patients with coronary artery disease. P6063
– F. Jansen, L. Schaefer, G. Nickenig, J.M. Sinning, N. Werner (Bonn, DE)

Posters are on display from 14:00 to 18:00. Presenters will be by their poster during the coffee break between 15:30 and 16:30 for posters viewing time.

INTERVENTIONS, PERIPHERAL CIRCULATION, STROKE, SURGERY – MISCELLANEOUS

- Steroids in cardiac surgery (SIRS): infection substudy.** P6064
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CONGRESS CONDENSED – ESC CLINICAL PRACTICE GUIDELINES 2017

Special Session

Chairperson(s): M. Roffi (Geneva, CH); S. Windecker (Bern, CH)

09:00	Valvular heart disease. – M. Roffi (Geneva, CH)	6503
09:15	Focused update on dual antiplatelet therapy. – P. Vranckx (Hasselt, BE)	6504
09:30	Peripheral arterial diseases. – P. Widimsky (Prague, CZ)	6505
09:45	AMI-STEMI. – J.-P. Collet (Paris, FR)	6506

09:00–10:00 | Dali - The Hub



CONGRESS CONDENSED – INTERVENTIONAL CARDIOLOGY

Special Session

Chairperson(s): A. Baumbach (London, UK); R. Mehran (New York, US)

09:00	Aortic stenosis and transcatheter treatment. – C. Tamburino (Catania, IT)	6507
09:15	Multivessel coronary artery disease and revascularisation. – A. Kastrati (Munich, DE)	6508
09:30	Biomarkers to guide the management of coronary artery disease. – S. Blankenberg (Hamburg, DE)	6509
09:45	Dual antiplatelet therapy for coronary artery disease. – M. Gilard (Brest, FR)	6510

09:00–10:00 | Gaudi - The Hub

CONGRESS CONDENSED – GENERAL CARDIOLOGY

Special Session

Chairperson(s): R. Asteggiano (Turin, IT); M. Guenoun (Plan-de-Cuques, FR)

09:00	Hypertension and prevention. – D.L. Clement (Ghent, BE)	6511
09:15	Arrhythmias and devices. – G. Baron Esquivias (Seville, ES)	6512
09:30	Heart failure. – D.J. Richter (Athens, GR)	6513
09:45	Coronary artery diseases. – S. Silber (Munich, DE)	6514

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CONGRESS CONDENSED – BASIC SCIENCE

Special Session

Chairperson(s): L. Badimon (Barcelona, ES); J.D. Pearson (London, UK)

09:00	Cardiovascular development and regeneration. – F.B. Engel (Erlangen, DE)	6515
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10:15–12:15 | Barcelona - Main Auditorium

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ESC CONGRESS HIGHLIGHTS

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10:20	Arrhythmias. – A.J. Camm (London, UK)	6522
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11:20	Hypertension. – G. de Simone (Naples, IT)	6527
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11:44	Imaging. – V. Delgado (Leiden, NL)	6529
11:56	Preventive cardiology. – E. Prescott (Copenhagen, DK)	6530
12:08	Conclusion.	6531



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**Monday
28 August
15:40 - 16:30
in Agora 1**



Chaipersons: F. Consentino (Stockholm, SE); J. Morais (Leiria, PT)

- 15:40 Modeling the Individual Risk of Thrombosis in Oncology (MIRTO)**
J.M. Soria Fernandez (Sant Pau, ES)
- 15:50 The importance of type of antithrombotic treatment after aortic valve replacement for the risk of future thromboembolic and bleeding events in aortic stenosis - Comparison of mechanical - bio prosthetic and trans-catheter (TAVI) aortic valve replacement.**
C. Christersson (Uppsala, SE)
- 16:00 Dual approach cardiac MRI for molecular assessment and interventional treatment of vulnerable coronary plaques in a porcine model.**
T. Heidt (Freiburg, DE)
- 16:10 Systemic versus site targeted treatment of neoatherosclerosis.**
M. Joner (Muenchen, DE)
- 16:20 Identification of mirRNA profiles associated with venous thromboembolism and recurrent events (IMPROVEMENTS).**
D. Tregouet (Paris, FR)

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BARCELONA 2017

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& JUDGES, SPEAKERS
& DISCUSSANTS / AUTHORS**



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29 September 2017

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HR	Croatia	LT	Lithuania
CU	Cuba	LU	Luxembourg
CY	Cyprus	MO	Macau SAR People's Republic of China
CZ	Czech Republic	MK	Macedonia The Former Yugoslav Republic of
ZR	Democratic Republic of Congo	MG	Madagascar
DK	Denmark	MW	Malawi
DJ	Djibouti	MY	Malaysia
DM	Dominica (Commonwealth of Dominica)	MV	Maldives
DO	Dominican Republic	ML	Mali
TP	East Timor	MT	Malta
EC	Ecuador	MH	Marshall Islands
EG	Egypt	MQ	Martinique
SV	El Salvador	MR	Mauritania
GQ	Equatorial Guinea	MU	Mauritius
ER	Eritrea	YT	Mayotte
EE	Estonia	MX	Mexico
ET	Ethiopia	FM	Micronesia (Federated States of)
FK	Falkland Islands (Malvinas)	MD	Moldova Republic of
FO	Faeroe Islands	MC	Monaco

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MN	Mongolia	SL	Sierra Leone
ME	Montenegro	SG	Singapore
MS	Montserrat	SK	Slovak Republic
MA	Morocco	SI	Slovenia
MZ	Mozambique	SB	Solomon Islands
MM	Myanmar	SO	Somalia
NA	Namibia	ZA	South Africa
NR	Nauru	GS	South Georgia And The South Sandwich Islands
NP	Nepal	ES	Spain
NL	Netherlands	LK	Sri Lanka
AN	Netherlands Antilles	SD	Sudan
NC	New Caledonia	SR	Suriname
NZ	New Zealand	SJ	Svalbard And Jan Mayen Islands
NI	Nicaragua	SZ	Swaziland
NE	Niger	SE	Sweden
NG	Nigeria	CH	Switzerland
NU	Niue	SY	Syrian Arab Republic
NF	Norfolk Island	TW	Taiwan ROC
MP	Northern Mariana Islands	TJ	Tajikistan
NO	Norway	TZ	Tanzania United Republic of
OM	Oman	TH	Thailand
PK	Pakistan	TG	Togo
PW	Palau	TK	Tokelau
PS	Palestine Territories	TO	Tonga
PA	Panama	TT	Trinidad & Tobago
PG	Papua New Guinea	TN	Tunisia
PY	Paraguay	TR	Turkey
PE	Peru	TM	Turkmenistan
PH	Philippines	TC	Turks & Caicos Islands
PN	Pitcairn	TV	Tuvalu
PL	Poland	UG	Uganda
PT	Portugal	UA	Ukraine
PR	Puerto Rico	AE	United Arab Emirates
QA	Qatar	UK	United Kingdom
RE	Reunion	UM	United States Minor Outlying Islands
RO	Romania	US	United States of America
RU	Russian Federation	UY	Uruguay
RW	Rwanda	UZ	Uzbekistan
SH	Saint Helena	VU	Vanuatu
KN	Saint Kitts & Nevis	VA	Vatican City State (Holy See)
LC	Saint Lucia	VE	Venezuela
PM	Saint Pierre And Miquelon	VN	Vietnam
VC	Saint Vincent & the Grenadines	VG	Virgin Islands (British)
SM	San Marino Republic of	VI	Virgin Islands (U.S.)
ST	Sao Tome and Principe	WF	Wallis and Futuna Islands
SA	Saudi Arabia	EH	Western Samoa
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Non-member Registration/Housing Opens:

Thursday, June 22

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Deadline for Advanced Registration Rate:

Tuesday, October 10



SCIENTIFIC 20
SESSIONS 17

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Date

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Late Breaking Clinical Trials /

Late Breaking Cohort Studies

Deadline for Submission: 17:00 October 25 (Wed.), 2017 (JST)

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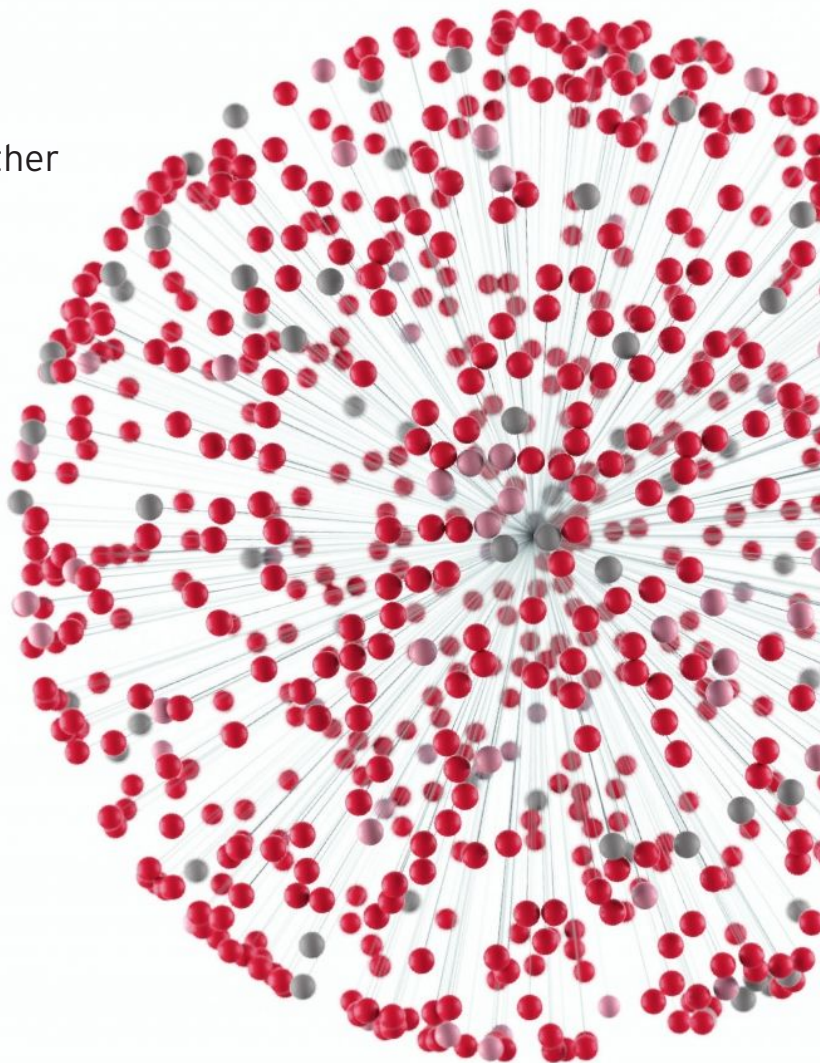


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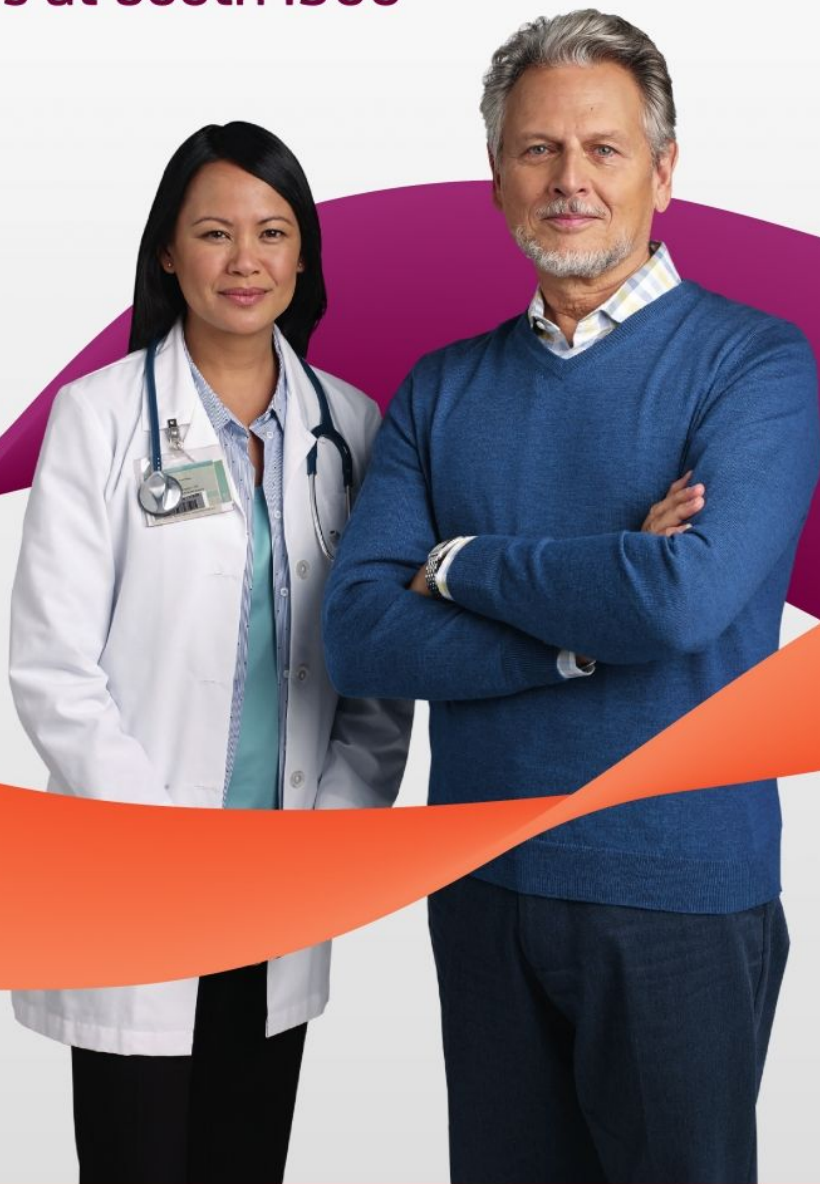


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‡ Secondary end point that measured the change from baseline to 8 months in the clinical summary score on the Kansas City Cardiomyopathy Questionnaire (KCCQ).

References: 1. Fala L. Entresto (sacubitril/valsartan): First-in-class angiotensin receptor neprilysin inhibitor FDA approved for patients with heart failure. *Am Health Drug Benefits*. 2015;8(6):330-334. 2. Volpe M, Carnovale M, Mastromarino V. The natriuretic peptides system in the pathophysiology of heart failure: from molecular basis to treatment. *Clin Sci*. 2016;130(2):57-77. 3. ENTRESTO Summary of Product Characteristics. European Medicines Agency, 2017. <http://www.ema.europa.eu>. 4. McMurray JJ, Packer M, Desai AS, et al. Angiotensin–neprilysin inhibition versus enalapril in heart failure. *N Engl J Med*. 2014;371(11):993-1004.