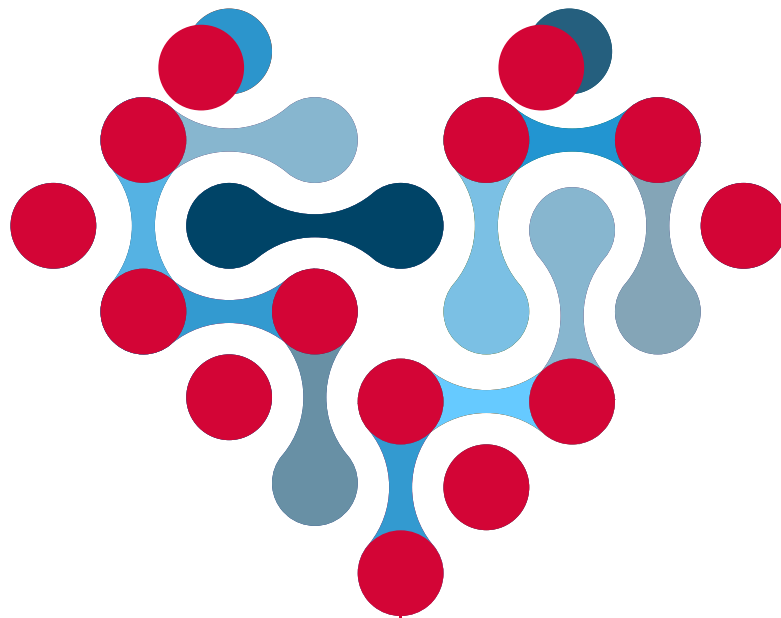


FINAL PROGRAMME

EUROPACE EHRM 2017

18-21 June
CARDIOSTIM Vienna, Austria



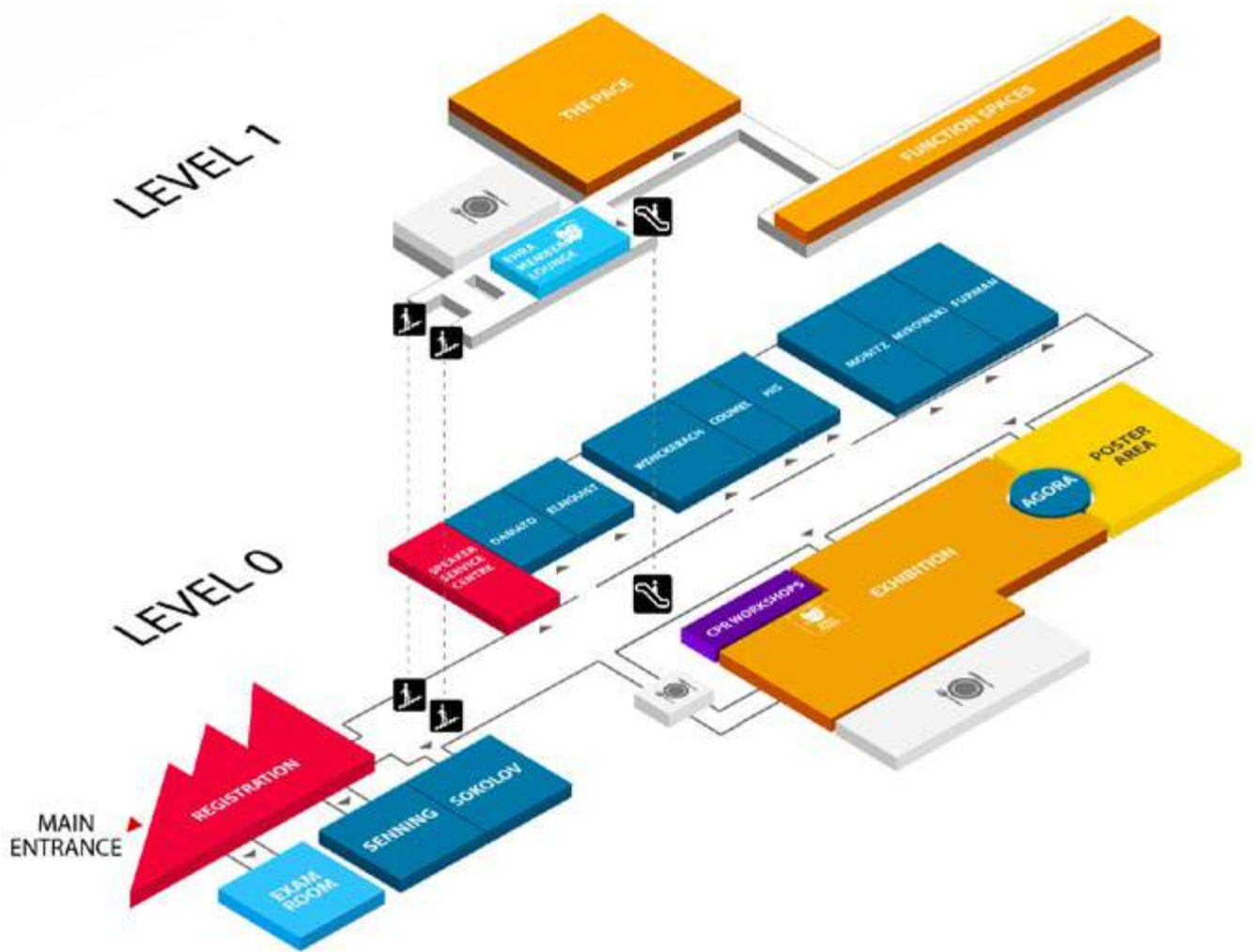
Connect

www.escardio.org/EUROPACE #ehraeuropace

With the participation of the ESC Working Groups on e-Cardiology and Grown-up Congenital Heart Disease and in conjunction with the 41st Annual Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology.



Building Overview



Welcome Address

EHRA EUROPACE - CARDIOSTIM 2017 promises to be a highly successful congress!

The EHRA Scientific Programme Committee has developed a compelling programme designed to provide attendees with the latest in science and education in the field of cardiac rhythm disorders and therapies.

During this four days congress, highly acclaimed scientific sessions will cover all aspects of pacing and electrophysiology. Delegates will also have the chance to discover new research, learn from world renowned experts and exchange with colleagues and peers.

Dedicated sessions for allied professionals, young electrophysiologists, and women in electrophysiology will be delivered and once again, the congress will be joined by colleagues from the ESC Working Groups on e-Cardiology and on Grown-up Congenital Heart Disease as well as the 41st Annual Meeting on Cardiac Cellular Electrophysiology.

We look forward to welcoming you to the beautiful city of Vienna, and making this congress another success!

Prof. Michael Glikson (IS)

EHRA Scientific Programme Chairperson

Prof. Helmut Pürerfellner (AT)

EHRA Scientific Programme Vice-Chairperson

Dr. Arnaud Lazarus (FR)

Cardiostim Scientific Programme Chairperson

Prof. Pierre Jais (FR)

Cardiostim Scientific Programme Vice-Chairperson



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Prof. Christian Wolpert (DE)

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Prof. Vincent Probst (FR)

Prof. Mark O'Neill (GB)

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Dr. Laurent Pison (NL)
Prof. Richard Schilling (GB)
Prof. Isabel Deisenhofer (DE)
E-cardiology WG rep - Prof. Goran Krstacic (HR)

Heart Failure

Prof. Giuseppe Boriani (IT)
Ass. Prof. Carsten Israel (DE)
Dr. Giuseppe Stabile (IT)
Dr. Eyal Nof (IL)

Innovation

Prof. Frits Prinzen (NL)

e-Health Summit

Prof. Martin Cowie (UK)

Lead and Device Management Summit

Dr. Maria Grazia Bongiorno (IT)

Pediatric / Adult Congenital Heart Disease

Prof. Jan Janousek (CZ)
Dr. Joachim Hebe (DE)
Dr. Nico Blom (ML)
GUCH WG rep - G. Diller (DE)

Regulatory /Health Politics / Education

Dr. Francisco Leyva (GB)
Prof. Giovanni Fattore (IT)
Prof. Paulus Kirchhof (GB)
Dr. Angel Moya (SP)

Scientific documents

Prof. Gregory Y. H. Lip (GB)

VT/VF Summit

Prof. Antonio Beruezzo (SP)

Women in EP

Prof. Andrea Sarkozy (BE)

Young EP

Assist. Prof. Valentina Kutiyifa (USA)



Read about the scientific highlights of the day, find exclusive scientific articles and other daily news.

Internet connection

Free Wi-Fi is available at the congress center however please note that connectivity is subject to the volume of user Wi-Fi SSID

Wi-Fi Name : ehra-congress

Wi-Fi Password : ehra-congress

Certificates

- For attendance – available from the registration desks as of Tuesday 20 June
- For presentation – available for abstract presenters at the poster assistance desk in the poster area



Continuing medical education (CME)

EHRA EUROPACE – CARDIOSTIM 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.

EHRA EUROPACE – CARDIOSTIM 2017 is designated for a maximum of 20 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 I Credits™. Information on the process to convert EACCME credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.

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

Language

The official language during the congress is English. All lectures & presentations (apart from four sessions in German, on Sunday, in the Nurse and Allied Professionals track) will be held in English. No translation is available.

Programme Changes / Date of print

The date of print is 17 May 2017. For the most updated version of the programme, visit the Scientific Programme & Planner or download the Mobile App.

Security

Please ensure your badge is visible at all times and comply with security controls that you may be subject to within the congress venue.

Information points

For any other information (medical care, lost & found...) please address the organisers at the registration.

Cloakroom

Leave your belongings (free of charge) at the cloakroom.

Catering

Refreshments are provided during official coffee breaks and at the Networking Reception. Cash bars are available throughout the venue.

INDUSTRY @ EHRA EUROPACE - CARDIOSTIM ACKNOWLEDGEMENTS

The European Heart Rhythm Association wishes to express its sincere appreciation to all exhibitors, industry partners and sponsors mentioned below, who have contributed to the success of EHRA EUROPACE - CARDIOSTIM 2017 in a variety of ways and initiatives.

Abbott

Access Point Technologies EP

ACUTUS MEDICAL

American College of Cardiology

Arrhythmia Alliance

Asia Pacific Heart Rhythm Society

Atricure

Bardy Diagnostics

Baylis Medical

Biosense Webster

BIOTRONIK

Bittium

Boehringer Ingelheim International GmbH

Boston Scientific International

Cardiac Rhythm News

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Cascade Refining Inc

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CNSystems Medizintechnik AG

Cook Medical

Daiichi Sankyo Europe GmbH

EBR Systems Inc

FibriCheck

Finapres

Galgo Medical. S.L.

Health in Code SL

HealthWatch LTD

Heart Rhythm Society

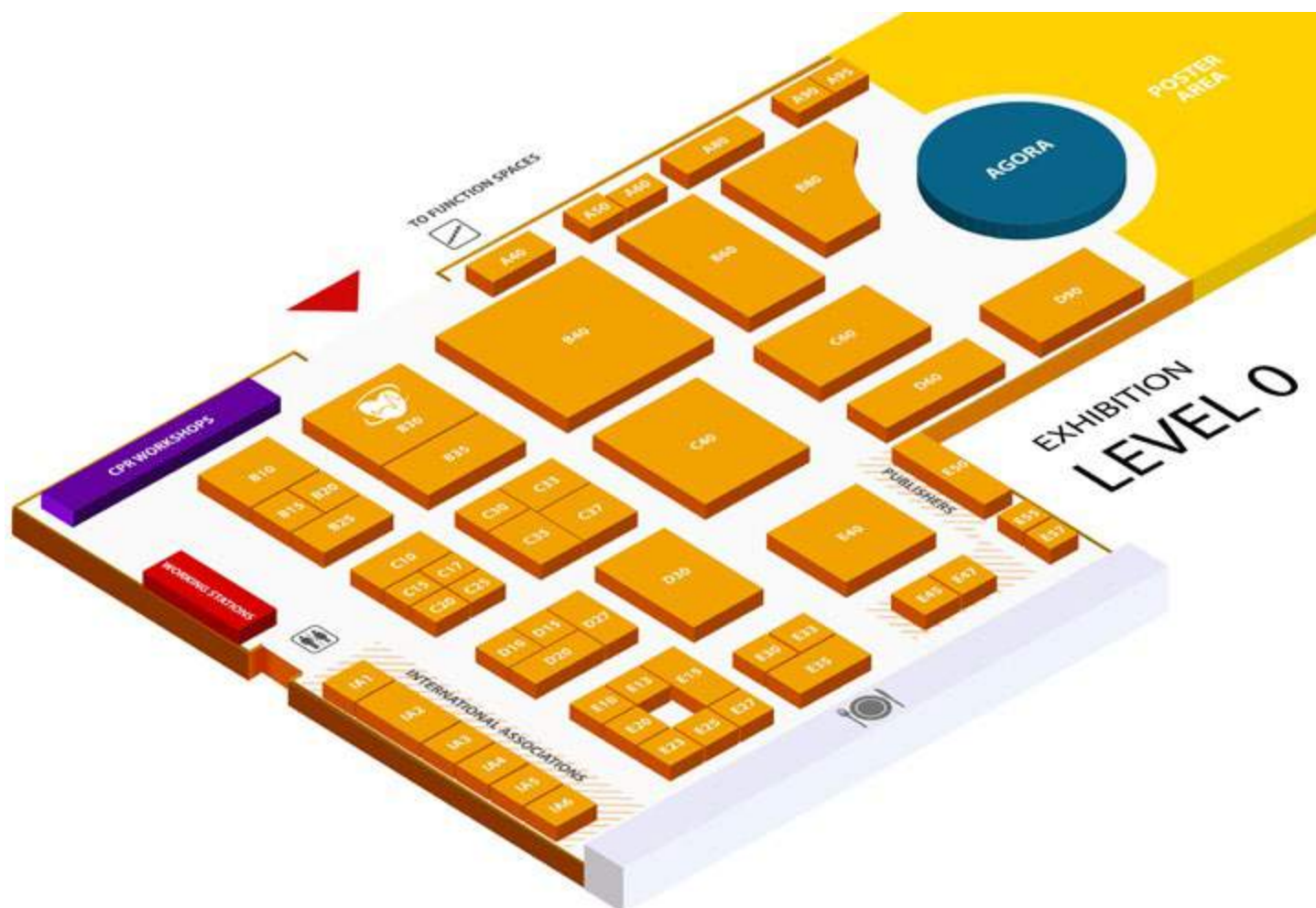


Impulse Dynamics
Imricor
Lindacare
LivaNova (formerly Sorin Group)
MedFact engineering GmbH
MEDICO SPA
Medtronic
Merit Medical
MicroPort EP
National Manufacturing Co., Inc.
NUUBO
OSYPKA AG
Oxford University Press
PREVENTICUS GmbH

Radcliffe Cardiology
Rooti
Schwarzer Cardiotek
Siemens Healthineers
Spectranetics International b.v.
St. Jude Medical is now Abbott
Stereotaxis
Synaptic Medical
Vitatron
Wisepress Online Bookshop
World Society of Arrhythmias (WSA)
ZOLL LifeVest

Exhibition

At the heart of the congress centre, the exhibition will be a central hub for scientific discussion and exchange to have the opportunity to interact with key industry experts on critical areas of development and research in cardiovascular products and therapies. The exhibition will provide you with a unique opportunity to catch a glimpse of the continuous therapeutic and technological developments in the electrophysiological discipline.



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.

Exhibitors (as of 12/06/2017)

Abbott	C40	Heart Rhythm Society	IA2
Access Point Technologies EP	E23	Impulse Dynamics	E25
ACUTUS MEDICAL	A90	Imricor	C37
American College of Cardiology	IA6	Lindacare	A60
Arrhythmia Alliance	IA3	LivaNova (formerly Sorin Group)	C60
Asia Pacific Heart Rhythm Society	IA5	MedFact engineering GmbH	C20
Atricure	E35	MEDICO SPA	B25
Bardy Diagnostics	A80	Medtronic	B40
Baylis Medical	C10	Merit Medical	E15
Biosense Webster	D90	MicroPort EP	A50
BIOTRONIK	B60	National Manufacturing Co., Inc.	C30
Bittium	E13	NUUBO	D15
Boehringer Ingelheim International GmbH	B10	OSYPKA AG	E27
Boston Scientific International	B80	Oxford University Press	E45
Cardiac Rhythm News	C15	PREVENTICUS GmbH	C25
CardioFocus, Inc.	D20	Radcliffe Cardiology	E47
CARDIOSTIM 2018/Reed Expositions France	IA1	Rooti	B20
Cascade Refining Inc	D10	Schwarzer Cardiotek	A40
CIRCA Scientific, LLC	A95	Siemens Healthineers	D30
CNSystems Medizintechnik AG	E33	Spectranetics International b.v.	D60
Cook Medical	B35	St. Jude Medical is now Abbott	C40
EBR Systems Inc	D27	Stereotaxis	E40
European Heart Rhythm Association (EHRA) –	B30	Synaptic Medical	E20
European Society of Cardiology (ESC)	C17	Vitatron	C35
FibriCheck	B15	Wisepress Online Bookshop	E50
Finapres	E30	World Society of Arrhythmias (WSA)	IA4
Galgo Medical. S.L.	E10	ZOLL LifeVest	C33
Health in Code SL	E55		
HealthWatch LTD			

Satellite Symposia

Delegates are cordially invited to attend a series of Satellite Symposia included in the EHRA EUROPACE-CARDIOSTIM 2017 scientific programme. These sessions will offer pertinent data on the latest scientific development in cardiovascular imaging from the 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.

The PACE

The PACE provides delegates with an opportunity to interact with clinical experts in their field, acquire new techniques, improve current knowledge and ask all they need to know on procedures essential to daily practice. For details on The PACE activities, please visit The PACE ROOMS or the supporting company on their booths.

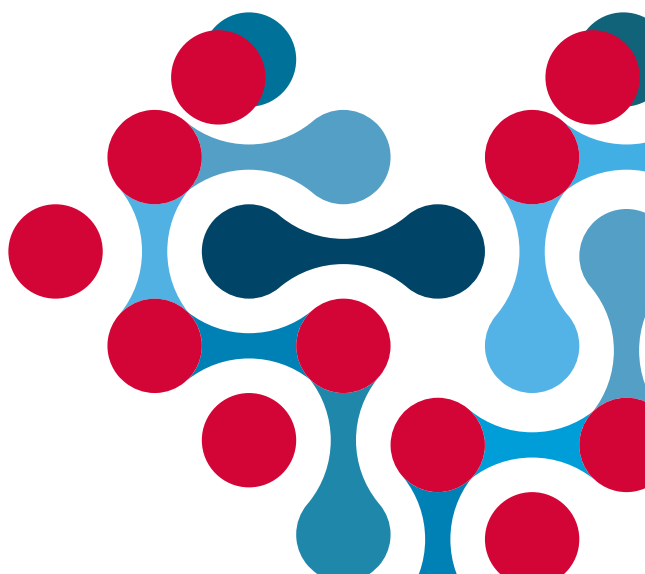
Sponsorship

The European Heart Rhythm Association (EHRA) and Cardiostim gratefully acknowledged sponsors which have contributed to the success of EHRA EUROPACE-CARDIOSTIM 2017 via educational grant and support of advertisements and other sponsorship opportunities.

Sponsors (as of 12/06/2017)

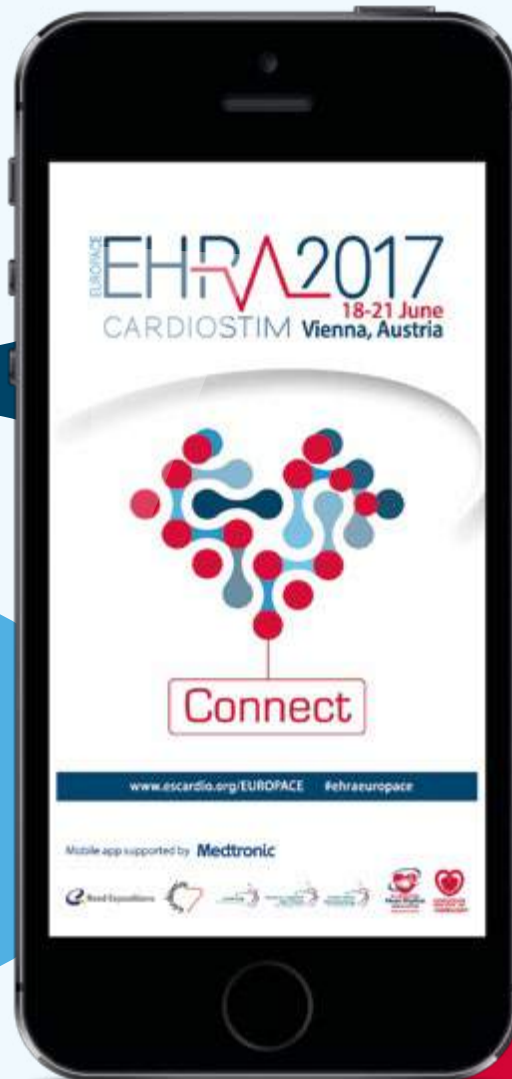
- Abbott
- Biosense Webster
- BIOTRONIK
- Boehringer Ingelheim
- Boston Scientific
- Daiichi Sankyo Europe GmbH
- EPIC Alliance / BIOTRONIK
- LivaNova
- Medtronic
- Spectranetics
- St. Jude Medical is now Abbott
- ZOLL CMS GmbH

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





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EUROPEAN HEART RHYTHM ASSOCIATION



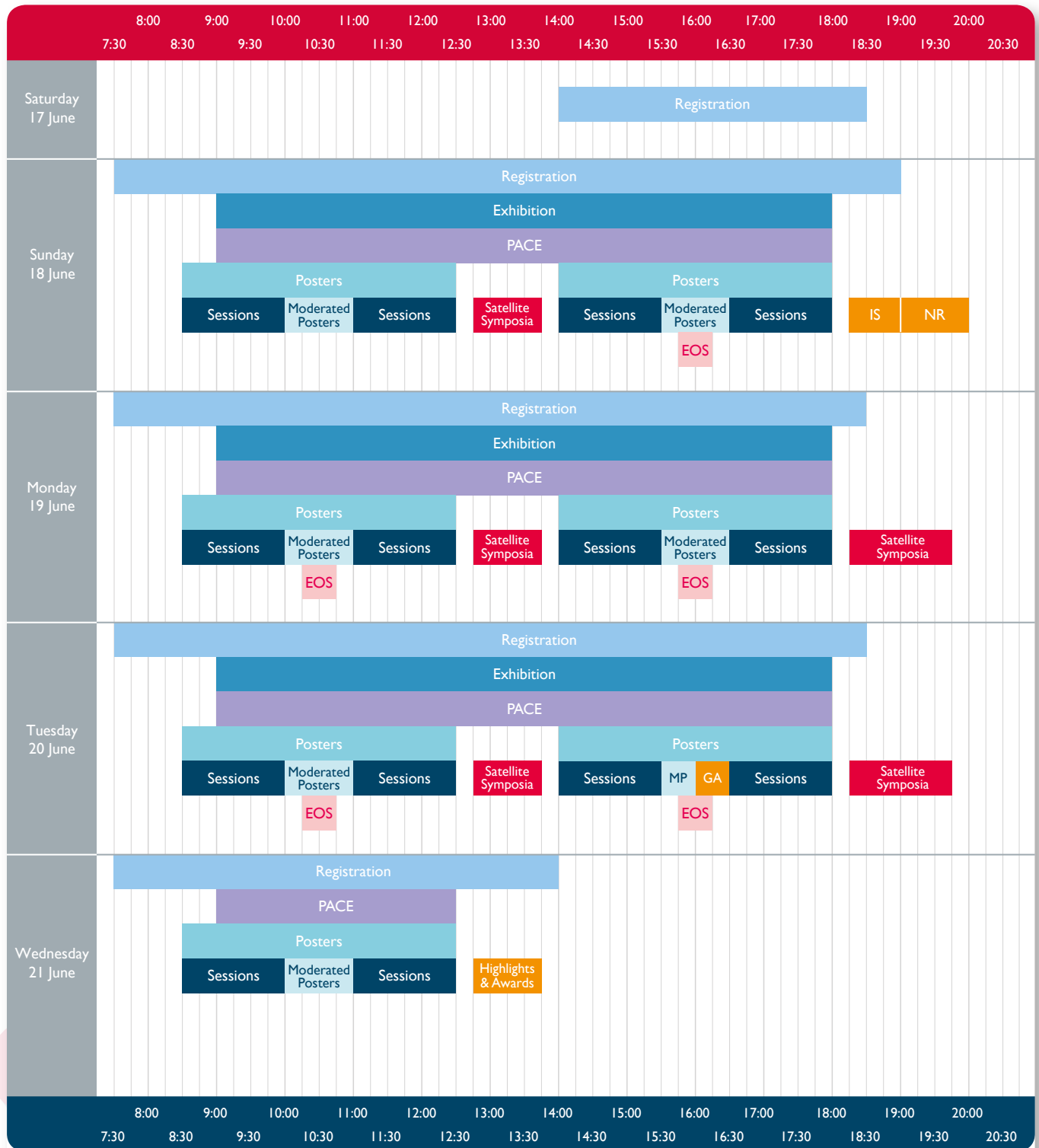
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www.escardio.org/EHRA-membership



Congress Timetable



- IS Inaugural Session
- NR Networking Reception
- GA EHRA General Assembly
- EOS Experts On the Spot sessions
- MP Moderated Posters



Sunday 18 June 2017

For more information, check the most up to date programme on
The Scientific Programme & Planner
www.escardio.org/EUROPACE

THE PACE

09:00 - 11:00

THE PACE

THE PACE ROOM 1

Cardiac Resynchronisation Therapy (CRT) implant and MultiPoint Pacing (MPP) optimization

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. Sommer (Leipzig, DE)

This session will allow you to utilize VR to implant quadripolar and learn how to optimize the patient with MPP.

09:00 - 18:00

THE PACE

THE PACE ROOM 1

Atrial Fibrillation (AF) and contact force

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): L. Tanghe (Waregem, BE); L. Lehman (Brussels, BE)

This session will allow you to:

- Learn about Contact Force
- Understand the biophysics of ablation
- Perform a PVI on Virtual Reality

11:00 - 12:30

THE PACE

THE PACE ROOM 1

SecureSense algorithm

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): M.L. Hendriks (Zaandam, NL)

This session will allow you to:

- Review SecureSense Algorithm
- Learn how review SecureSense EGMs
- Discuss possible programming solutions to overcoming RV oversensing issues.

14:00 - 16:00

THE PACE

THE PACE ROOM 1

Insertable cardiac monitor

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): L. Lehman (Brussels, BE); L. Tanghe (Waregem, BE); V. Antonakos (Athens, GR)

Get with the guidelines, learn about the clinical evidence, practice an implant, discover the app and how to best educate your patients.

17:00 - 18:00

THE PACE

THE PACE ROOM 1

Electrocardiogram (ECG) corner

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): V. Antonakos (Athens, GR)

Discuss how to use the ECG Corner to help in clinical practice and how to navigate the website.

11:00 - 12:00

THE PACE

THE PACE ROOM 2

Detecting & monitoring sleep apnea to improve Atrial Fibrillation (AF) treatment success

Sponsored by LivaNova

Chairperson(s): P. Defaye (Grenoble, FR); S. Venier (Grenoble, FR)

Severe sleep apnea is highly prevalent in patients with atrial fibrillation. There is a direct impact of this comorbidity on the outcome of AF treatment. How can cardiologists improve management of these patients by earlier detection and closer monitoring of sleep apnea? New tools like Holterpolygraphs and diagnostic features in implantable devices can be used within the cardiology department. This session will cover the practical application of these novel solutions in a multidisciplinary environment with the ultimate aim of increasing the success of AF treatment.

THE PACE

12:45 - 13:30

THE PACE

THE PACE ROOM 2

Sleep apnea matters for cardiologists: time for a wakeup call

Sponsored by LivaNova

Chairperson(s): D. Linz (Adelaide, AU)

Sleep apnea has a direct impact on the cardiovascular system and can be detrimental for patients at risk. Come to this educational session to really "experience" Sleep Apnea and learn more about the deleterious outcomes it has when associated with Atrial Fibrillation or Heart Failure. Get an overview of the existing tools for screening and monitoring Sleep Apnea that are available to cardiologists.

09:00 - 10:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management
- New S-ICD lead, two incision technique, new implant tools
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

09:00 › Managing cardiac resynchronization therapy patients from implant to clinical follow-up. 1

E.M. Avila Mayor (Madrid, ES)

09:00 › S-ICD system evolution. 2

J. Flandorfer (Wien, AT)

09:00 › High definition mapping, signal clarity, innovative portfolio. 3

F. Guerrero (Madrid, ES)

10:00 - 11:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management with quadripolar leads
- The two incision technique shown through the technology of 3D projection mapping
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

10:00 › Focus on quadripolar leads: implanting technique and device setting before hospital discharge. 4

J. Fouhy (Clonmel, IE)

10:00 › S-ICD two-incision technique - 3D projection mapping. 5

A. M. van Beek (Amsterdam, NL)

10:00 › High definition mapping, signal clarity, innovative portfolio. 6

F. Guerrero (Madrid, ES)

THE PACE

11:00 - 12:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

During this session you will get an overview of:

- Prediction of HF events.
- Two incision technique, intermuscular technique, serratus plane block.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

11:00 › Proactive management of heart failure patients: the next step in preventive technology. 7

T. Rae (Clonmel, IE)

11:00 › S-ICD implant evolution: new implant techniques and trends. 8

M. Laarakker (Nieuwegein, NL)

11:00 › High definition mapping, signal clarity, innovative portfolio. 9

N. Hillier (London, GB)

12:00 - 15:00

THE PACE

THE PACE ROOM 3

Hands-on sessions

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

These small group sessions will give you an overview of Boston Scientific technology on HF, S-ICD evolution, implanting technique, modular combination of S-ICD with leadless pacing, and the impact of high resolution mapping on signal clarity and new technologies for ablation.

12:00 › Heart failure: hands-on sessions. 10

E.M. Avila Mayor (Madrid, ES)

12:00 › Subcutaneous defibrillator: hands-on sessions. 11

S. Accinelli (Genova, IT); A. M. van Beek (Amsterdam, NL); M. Laarakker (Nieuwegein, NL)

12:00 › High definition mapping, signal clarity, innovative portfolio. 12

N. Hillier (London, GB); B. Holmes (Cheshire, GB)

15:00 - 16:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management.
- The two incision technique shown through the technology of 3D projection mapping.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

15:00 › Managing cardiac resynchronization therapy patients from implant to clinical follow-up. 13

J. Fouhy (Clonmel, IE)

15:00 › S-ICD two-incision technique - 3D projection mapping. 14

A. M. van Beek (Amsterdam, NL)

15:00 › High definition mapping, signal clarity, innovative portfolio. 15

A. Belligoli (Villafranca Verona, IT)

THE PACE

16:00 - 17:00 THE PACE THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management with quadripolar leads.
- Modular combination of S-ICD with leadless pacing.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

16:00 › Focus on quadripolar leads: implanting technique and device setting before hospital discharge. **16**

E.M. Avila Mayor (Madrid, ES)

16:00 › Modular solutions for patients implanted with S-ICD: the next frontier of leadless technology. **17**

M. Laarakker (Nieuwegein, NL)

16:00 › High definition mapping, signal clarity, innovative portfolio. **18**

A. Belligoli (Villafranca -Verona, IT)

17:00 - 18:00 THE PACE THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): J. Fouhy (Clonmel, IE)

During this session you will get an overview of:

- Prediction of HF events.
- New lead, two incision technique and new implant tools.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

17:00 › Proactive management of heart failure patients: the next step in preventive technology. **19**

T. Rae (Clonmel, IE)

17:00 › S-ICD system evolution. **20**

J. Flandorfer (Wien, AT)

17:00 › High definition mapping, signal clarity, innovative portfolio. **21**

F. Guerrero (Madrid, ES)

09:00 - 18:00 THE PACE THE PACE ROOM 4

Learn more about our innovations

Sponsored by Abbott (St. Jude Medical is now Abbott)

09:00 - 10:00 THE PACE THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

THE PACE

10:00 - 11:00

THE PACE

THE PACE ROOM 5

Voice of the expert: « a novel way of mapping complex tachycardias»

Sponsored by Biosense Webster

To learn about a new concept of mapping tachycardias that may lead to better outcomes. This session will be highly interactive with Q&A sessions.

11:00 - 12:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

12:45 - 13:45

THE PACE

THE PACE ROOM 5

Voice of the expert: « a novel way of mapping complex tachycardias»

Sponsored by Biosense Webster

To learn about a new concept of mapping tachycardias that may lead to better outcomes. This session will be highly interactive with Q&A sessions.

14:00 - 15:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

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To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

15:00 - 16:00

THE PACE

THE PACE ROOM 5

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Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

16:00 - 17:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

08:30 - 10:00 HOW-TO SESSION SOKOLOV

LAA occlusion workshop – How to sessions Part I Background

This programme is supported by Boston Scientific & Abbott in the form of educational grants. The scientific programme has not been influenced in any way by its sponsors

Chairperson(s): X. To be announced (X, FR); M. Glikson (Ramat Gan, IL)

- 08:30 › 2017 - Update on LAA studies. 22
J. Werner (Villingen-Schwenningen, DE)
- 08:48 › LAAO indications in the NOAC era. 23
T.L. Lewalter (Munich, DE)
- 09:06 › Incomplete evidence, gaps and uncertainties. 24
P. Kirchhof (Birmingham, GB)
- 09:24 › It is all about imaging (with recorded cases). 25
T. J. R. De Potter (Aalst, BE)
- 09:42 › The use of ICE in LAAO (Recorded case). 26
P. Neuzil (Praha, CZ)

08:30 - 10:00 MAIN SESSION SENNING

Atrial fibrillation and ablation or devices: what do registries tell us?

Chairperson(s): R. De Ponti (Varese, IT); J. Kornej (Leipzig, DE)

To appraise the role of registries in AF ablation and device management. To explore whether registries can guide further developments in AF ablation or device features.

- 08:30 › EORP registry: what determines a good outcome from atrial fibrillation ablation in the 'real world'. 27
N. Dagues (Leipzig, DE)
- 08:48 › European Atrial Fibrillation Ablation Registry: do outcomes in the realworld compare with trials ? 28
J. Kautzner (Prague, CZ)
- 09:06 › Epicardial/hybrid atrial fibrillation ablation registry (EHAFAR): how does a hybrid approach compare to a transcatheter approach ? 29
C. Blomstrom-Lundqvist (Uppsala, SE)
- 09:24 › Practice in perspective: can registry data guide future developments in atrial fibrillation ablation? 30
J. P. de Bono (Birmingham, GB)
- 09:42 › Preventing progression of atrial fibrillation: a realworld analysis of a reactive atrialantitachycardia pacing feature in CIEDs 31
G. Boriani (Castenaso (Bo), IT)

08:30 - 10:00 MEET THE EXPERTS WENCKEBACH

The 12 lead ECG as a daily, indispensable, companion Part I



Mobile App Interactive session.

Chairperson(s): H. J. Wellens (Maastricht, NL); J. Farre (Madrid, ES)

The audience will discuss, interactively with a voting system, ECGs selected by Prof. Wellens and Prof. Farré illustrating the current impact of electrocardiography in patients with different arrhythmic heart disorders

- 08:31 › The 12 lead ECG as a daily, indispensable, companion. Part I.1. 32
H. J. Wellens (Maastricht, NL)
- 09:15 › The 12 lead ECG as a daily, indispensable, companion. Part I.2. 33
J. Farre (Madrid, ES)

08:30 - 10:00

MAIN SESSION

MOBITZ

Recent advances in VT ablation: any effect on outcome?

Joint Session with the Sociedade Brasileira de Arritmias Cardiacas (SOBRAC)

VT and VF Summit



Chairperson(s): E. Saad (Rio De Janeiro, BR); A. Berruezo Sanchez (Barcelona, ES)

Learn about the most recent developments, techniques and research in VT ablation

An important advance in ablation techniques and new concepts and approaches has occurred in last years, with a measurable impact in outcomes after ventricular arrhythmia ablation. During the Summit the most recent advances in VT ablation for the different types of arrhythmogenic substrates will be deeply reviewed. In addition, how to deal with specific difficult substrates and how to avoid complications will also be discussed during the sessions. The management of electrical storm and its impact in improving the outcomes will be presented by leading electrophysiologists.

- 08:30 › Image integration for improvement of success of VT ablation. 34
K. Zeppenfeld (Leiden, NL)
- 08:52 › Pace mapping guided VT ablation. 35
C. de Chillou (Vandoeuvre Les Nancy, FR)
- 09:15 › Endo/epicardial ablation for ischemic diseases. 36
To be announced
- 09:37 › Endo/epicardial ablation in non-ischemic diseases. 37
M. Scanavacca (Sao Paulo, BR)

08:30 - 10:00

SYMPOSIUM

MIROWSKI

Atrial fibrillation, individual patients, individual therapies

Atrial Fibrillation Summit



Chairperson(s): G. Steinbeck (Starnberg, DE); C. Tondo (Milan, IT)

Uptodate review of the therapeutic approached for distinct subgroups of patients with atrial fibrillation

- 08:30 › Atrial fibrillation in the channelopathies. 38
A. M. Baranchuk (Kingston, CA)
- 08:52 › Atrial fibrillation in hypertrophic cardiomyopathy. 39
P. M. Elliott (London, GB)
- 09:15 › Atrial fibrillation and heart failure. 40
R. Hunter (Berkshire, GB)
- 09:37 › Atrial fibrillation: value of personalised therapy and integrated care. 41
J. M. L. Hendriks (Sittard, NL)

08:30 - 10:00

MEET THE EXPERTS

FURMAN

Effective and safe lead extraction: meet the experts

Lead and Device Management Summit



Chairperson(s): P. Mabo (Rennes, FR); A. Kutarski (Lublin, PL)

- 08:30 › Powered or non-powered lead extraction: does it make a difference? 42
A. Kypta (Linz, AT)
- 09:00 › How do I proceed with lead extraction when a stylet can not be introduced? 43
L. Segreti (Vecchiano, IT)
- 09:30 › When do I propose elective surgical lead extraction procedure? 44
C. Butter (Bernau/Berlin, DE)

08:30 - 10:00 SYMPOSIUM COUMEL

Gender issues in ICD and CRT therapy

Chairperson(s): F. D. Murgatroyd (London, GB); N.M.S. de Groot (Beinsdorp, NL)

- 08:30 › Electrophysiologic differences by gender. 45
F.W. Prinzen (Maastricht, NL)
- 08:52 › Differential susceptibility to ventricular arrhythmias by gender: clinical data. 46
A. Barsheshet (Kiryat Ono, IL)
- 09:15 › Differential effects of ICD and CRT in Women. 47
V. Kutyifa (Rochester, US)
- 09:37 › Why women don't get it? 48
J. Poole (Seattle, US)

08:30 - 10:00 MAIN SESSION HIS

Inherited arrhythmogenic diseases: genetics, risk stratification and sudden cardiac death

Chairperson(s): P. Brugada Terradellas (Brussels, BE); P. Lambiase (London, GB)

This session will provide an update of the most important issues emerging in the field of inherited arrhythmia and their practical implications. The session is directed towards a general audience.

- 08:30 › How to interpret Lab results in genetic arrhythmias counseling? 49
S. Zumhagen (Muenster, DE)
- 08:52 › Novel risk stratification tools for inherited arrhythmias. 50
V. Probst (Nantes, FR)
- 09:15 › What is new in early repolarisation? 51
A. Zaza (Milan, IT)
- 09:37 › Genetics of SCD and idiopathic VF: the clinical value of molecular autopsy and family screening. 52
S. Chugh (Los Angeles, US)

08:30 - 10:00 ABSTRACT PRESENTATION DAMATO

Regulation of cardiac ion channels

41st Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology

Chairperson(s): M. E. Mangoni (Montpellier, FR); C. Studenik (Wien, AT)

- 08:30 › Regulation and targeting of ion channels: novel observations in human iPSCderived cardiomyocytes. 53
A. Barbuti (Milano, IT)
- 08:48 › Atrial and ventricular invitro and invivo function › in a rat model of heart failure with preserved ejection fraction 56
F. Hohendanner, D. Bode, U. Primessnig, T. Guthof, S. Jeuthe, V. Adams, N. Rolim, U. Wisloff, B. Pieske, F. Heinzel (Berlin and Leipzig, DE; Trondheim, NO)
- 09:06 › PA6 inhibits gainoffunction KIR2.1 channels associated with short QT syndrome type 3 and congenital atrial fibrillation 57
M.A.G. Van Der Heyden, M. Veldhuis, J. Zandvoort, M.J.C. Houtman, K. Duran, G. Van Haafte, E.M. ZangerlPlessl, H. Takanari, A. StaryWeinzinger, Y. Ji (Utrecht, NL; Vienna, AT)
- 09:24 › Role of Ltype Cav1.3 Ca²⁺ channels in Ca²⁺ handling and sinoatrial node pacemaker activity altered by external 55 conditions. 55
A. Torrente, P. Mesirca, I. Bidaud, C. Barrere, J. Striessnig, M.E. Mangoni (Montpellier, FR; Innsbruck, AT)
- 09:42 › Changes in miRNA profile is associated with remodelling of ECcoupling and electrophysiology 54
T. Stolen, M.A. Hoydal, M.S. Ahmed, K. SolvangGarten, M. Hortigon, K. Jorgensen, A.M. Ornbostad, N. Scrimgeour, V.Z. Rodriguez, H. Attramadal, G.L. Smith, O. Ellingsen, U. Wisloff (Trondheim and Oslo, NO; Glasgow, GB)

10:00 - 11:00

SPECIAL EVENT

EHRA MEMBERS LOUNGE

Speed mentoring I



10:00 > Introduction

10:30 > Interview 1: 10:00 - 10:30 Interview 2: 10:30 - 11:00

C. Blomstrom Lundqvist (Uppsala, SE); J. Kautzner (Prague, CZ); G. Hindricks (Leipzig, DE); G. Breithardt (Munster, DE); J. J. Bax (Leiden, NL)

10:00 - 11:00

MODERATED POSTERS

POSTER AREA

Moderated Poster session I CIED complications

Chairperson(s): J.C. Deharo (Marseille, FR); M. Gwechenberger (Wien, AT)

- Implantable cardiac defibrillator infection is associated with repeated procedures on the generator pocket** 58
B. Jauregui Garrido, E. Arana Rueda, M. Frutos Lopez, J. Acosta Martinez, L. Garcia Riesco, E. Gutierrez Carretero, A. De Alarcon Gonzalez (Seville, ES)
- Manufacturer change and risk of system related complications after ICD replacement: data from the DECODE registry** 59
M. Biffi, E. Menardi, A. Campana, M. Iori, P. De Filippo, M. L. Narducci, C. Ferretti, D. Saporito, M. Zoni Berisso, G. Licciardello, P. Sabbatani, A. Del Rosso, V. Bonfantino, M. Malacrida, Q. Parisi (Bologna, Cuneo, Salerno, Reggio Emilia, Bergamo, Rome, Manerbio, Rimini, Genoa Sestri Ponente, Augusta, Cesena, Empoli, Bari, Milan and Campobasso, IT)
- Complications with conventional VVI pacing: an analysis of a complete, contemporary cohort in Denmark** 60
R. Kirkfeldt, J. B. Johansen, J. C. Nielsen (Aarhus and Odense, DK)
- The incidence of bleeding complication associated with pacemaker and implantable cardioverter defibrillator lead extraction without reversal of anticoagulation** 61
F. Khan, S. Ahmed, D. Humber, T. Pollema, U. Birgersdotter Green, V. Pretorius (San Diego, US)
- Increased complexity of transvenous lead removals with unaltered effectivity: promising results will benefit device patients** 62
D. Yilmaz, R. Bakker, M. J. Schalij, L. Van Erven (Leiden, NL)
- Influence of abandoned leads on the outcome of lead extraction in CIED infection.** 63
F. A. L. E. Bracke, N. Verberkmoes, A. Ouss, L. M. Van Gelder (Eindhoven, NL)
- Percutaneous aspiration of large lead vegetations and subsequent transvenous lead extraction in a single step procedure** 64
C. T. Starck, J. J. Eulert-Grehn, F. Schoenrath, V. Falk (Berlin, DE)
- Deployment of an occlusion balloon significantly decreases the mortality of superior vena cava tears during laser lead extractions** 65
D. Tsang, R. Azarrafy, T. Boyle, C. Kennergren, R. Carrillo (Miami, US; Göteborg, SE)
- Hybrid minimally invasive approach for transvenous lead extraction: a feasible technique in high risk patients** 66
F. Vassanelli, L. Bontempi, M. Cerini, L. Inama, F. Salghetti, G. Bisleri, A. Repossini, D. Liberto, D. Giacomelli, C. Muneretto, A. Curnis (Brescia and Milan, IT)
- S-ICD implantation in the young: low BMI as a predictor of surgical complications.** 67
V. Pazzano, M. S. Silvetti, L. Verticelli, I. Battipaglia, G. Grifoni, F. Saputo, R. Remoli, F. Drago (Rome, IT)

11:00 - 12:30 HOW-TO SESSION SOKOLOV

LAA occlusion workshop - How to sessions - Part II - Cases

This programme is supported by Boston Scientific & Abbott in the form of educational grants. The scientific programme has not been influenced in any way by its sponsors.

Chairperson(s): W. Jung (Villingen-Schwenningen,DE); A. J. Camm (London, GB)

11:00 › Tips and tricks in Watchman implantation (recorded case). **68**

C. Tondo (Milan, IT)

11:22 › Tips and tricks in Amulet implantation (recorded case). **69**

B. Schmidt (Frankfurt, DE)

11:45 › 2 Nightmare cases. **70**

T. J. R. De Potter (Aalst, BE)

12:07 › What is the best device for my patient? (with recorded cases). **71**

B. Schmidt (Frankfurt, DE)

11:00 - 12:30 MAIN SESSION SENNING

Cardiac devices: insights from registries

Chairperson(s): M. Gasparini (Rozzano, IT); I. Goldenberg (Ramat Gan, IL)

To appraise to what extent registries in cardiac devices influences clinical practice

To explore whether guideline indicated patients are receiving device therapy in the real world

11:00 › Co-morbidity and outcomes from device therapy: Insights from the Registry of Emilia Romagna on Arrhythmia Interventions (RERAI). **72**

G. Boriani (Castenaso (Bo), IT)

11:18 › Does gender influence the outcome of device or are clinical characteristics different in women? The Multicentre French Registry. **73**

R. Providencia (London, GB)

11:36 › Is practice in device therapy changing? The pacemaker implantable cardioverterdefibrillator Registry of the Italian Association of Arrhythmology and Cardiac Pacing (AIAC). **74**

A. Proclemer (Udine, IT)

11:54 › Are heart failure patients receiving guideline-indicated device therapy: the european heart failure registry. **75**

L. Tavazzi (Cotignola, IT)

12:12 › CRT Survey II. **76**

C. Normand (Stavanger, NO)

11:00 - 12:30 MEET THE EXPERTS WENCKEBACH

The 12 lead ECG as a daily, indispensable, companion Part 2



Mobile App Interactive session.

Chairperson(s): H. J. Wellens (Maastricht, NL); J. Farré (Madrid, ES)

The audience will discuss, interactively with a voting system, ECGs selected by Prof. Wellens and Prof. Farré illustrating the current impact of electrocardiography in patients with different arrhythmic heart disorders

11:01 › The 12 lead ECG as a daily, indispensable, companion. Part 2.1. **77**

H. J. Wellens (Maastricht, NL)

11:30 › The 12 lead ECG as a daily, indispensable, companion. Part 2.2. **78**

J. Farré (Madrid, ES)

11:00 - 12:30 SYMPOSIUM MOBITZ

VT-Ablation: how to deal with difficult substrates

VT and VF Summit



Chairperson(s): R.G. Vatasescu (Bucharest, RO); L. A. Geller (Budapest, HU)

To learn indepth about difficult substrates and how to improve mapping and energy delivery.

An important advance in ablation techniques and new concepts and approaches has occurred in last years, with a measurable impact in outcomes after ventricular arrhythmia ablation. During the Summit the most recent advances in VT ablation for the different types of arrhythmogenic substrates will be deeply reviewed. In addition, how to deal with specific difficult substrates and how to avoid complications will also be discussed during the sessions. The management of electrical storm and its impact in improving the outcomes will be presented by leading electrophysiologists.

- 11:00 › Ablation of papillary muscle tachycardia. 79
P. Santangeli (Philadelphia, US)
- 11:22 › Ablation in sarcoidosis and ARVC: the need for the epicardial approach. 80
T. Deneke (Bad Neustadt, DE)
- 11:45 › Ablation of trigger PVC in idiopathic VF and in post AMI. 81
S. Knecht (Brugge, BE)
- 12:07 › Septal VT ablation. 82
U. Tedrow (Boston, US)

11:00 - 12:30 SYMPOSIUM MIROWSKI

New technologies in catheter ablation of atrial fibrillation: toy or tool?

Atrial Fibrillation Summit



Chairperson(s): M. Duytschaever (Gent, BE); E. Wissner (Chicago, US)

To learn about the impact of different new technologies for the understanding of AF and the efficacy of ablation in different settings

- 11:00 › The impact of contact force on procedure outcome. 83
D. Gupta (Liverpool, GB)
- 11:22 › Rotor ablation: any proven indication? 84
J.M. Kalman (Victoria, AU)
- 11:45 › Ablation of autonomic ganglia: hope or hype? 85
J. R. De Groot (Amsterdam, NL)
- 12:07 › High density mapping: toy or tool? 86
H. Puererfellner (Linz, AT)

11:00 - 12:30 SYMPOSIUM FURMAN

How to get it done safely: lead extraction cases

Lead and Device Management Summit



Chairperson(s): A. Rao (Warrington, GB); M. Czajkowski (Lublin, PL)

- 11:00 › Predicting lead extraction peri-procedural complications? 87
C. Love (New York, US)
- 11:22 › Optimal preparation of the patient when lead extraction is planned. 88
D. Klug (Lille, FR)
- 11:45 › Optimal preparation of a lead extracting center. 89
C.A. Rinaldi (London, GB)
- 12:07 › One year after lead extraction: lessons from the ELECTRa Registry. 90
M. G. Bongiorni (Pisa, IT)

MORNING SESSIONS

11:00 - 12:30 DEBATE SESSION COUMEL

This house believes that health care workers should subspecialise in either EP or Device management

Chairperson(s): J. Tagney (Bristol, GB); J. Elders (Nijmegen, NL)

Case study based session on whether it is enough to specialize in one field of devices or electrophysiology.

- 11:05 › Health care workers should subspecialise in either EP or Device management: the case FOR subspecialism PRO. 92
D. J. Orenstein (Efrat, IL)
- 11:27 › Health care workers should subspecialise in either EP or Device management: the case AGAINST subspecialism CONTRA. 93
P. Nolan (Galway, IE)
- 11:48 › Health care workers should subspecialise in either EP or Device management Rebuttle PRO. 94
C. Linde (Stockholm, SE)
- 12:00 › Health care workers should subspecialise in either EP or Device management rebuttal CONTRA. 95
G. Hindricks (Leipzig, DE)
- 12:12 › Questions and Answers. 96

11:00 - 12:30 SYMPOSIUM HIS

The multiple facets of arrhythmogenic ventricular cardiomyopathy

Chairperson(s): V. Probst (Nantes, FR); H. Calkins (Baltimore, US)

This session will cover the latest news on pathogenesis, risk stratification and management of arrhythmogenic right ventricular cardiomyopathy (ARVC)

- 11:00 › The role of genetics for probands patients and family members. 98
R. N. W. Hauer (Utrecht, NL)
- 11:22 › Molecular pathogenesis of ARVC. 99
A. Asimaki (London, GB)
- 11:45 › What's needed for diagnosis and risk stratification? 100
F. Duru (Zurich, CH)
- 12:07 › Current therapeutic concepts - A summary of the 2015 international task force consensus statement. 101
D. Corrado (Padova, IT)

11:00 - 12:30 ABSTRACT PRESENTATION DAMATO

Intracellular ion homeostasis in the heart

41st Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology

Chairperson(s): C. Molina (Essen, DE); F. R. Heinzel (Berlin, DE)

- 11:00 › Nanoscale regulation of calcium signaling in atria. 102
S.E. Lehnart (Goettingen, DE)
- 11:18 › Properties of the sodiumcalcium exchanger and the Na⁺/K⁺ATPase in human induced pluripotent stem cell derived cardiomyocytes 103
A. Horvath, K. Gurr, D. Ismaili, I. Mannhardt, B. Ulmer, A. Hansen, T. Eschenhagen, T. Christ (Hamburg, DE)
- 11:36 › Contribution of small conductance K⁺ channels to sinoatrial node pacemaker activity of control and atrial specific Na⁺/Ca²⁺ exchange knock out mice. 105
A. Torrente, R. Zhang, H. Wang, A. Zaini, X. Yue, B. Kim, K.D. Philipson, J.I. Goldhaber (Los Angeles, US)

11:00 - 12:30 ABSTRACT PRESENTATION (CONTINUED) DAMATO

Intracellular ion homeostasis in the heart

- 11:54 › Exploring atrial action potential responses to changes in calcium window current characteristics **106**
P. Saxena, J. Dempster, G.L. Smith, A.J. Workman (Glasgow, GB)
- 12:12 › Early-diastolic Ca²⁺ sparks alter repolarisation via the calcium activated chloride current **104**
P. Saxana, S. Kettlewell, C. Blair, A. Rankin, G.L. Smith, N. Macquaide (Glasgow, GB)

11:00 - 12:30 MAIN SESSION ELMQUIST

Single ventricle and transposition of great arteries: challenges for the electrophysiologist

Chairperson(s): L. Kornyei (Budapest, HU); R. Fogelman (Petah Tikva, IL)

- 11:00 › Post-surgical anatomy. **107**
Y. Buber (Raanana, IL)
- 11:22 › Arrhythmias and catheter ablation in single ventricle patients. **108**
T. Paul (Gottingen, DE)
- 11:45 › Arrhythmias and catheter ablation in TGA patients. **109**
J. Hebe (Bremen, DE)
- 12:07 › Role of surgical ablation and implantation techniques for cardiac resynchronisation therapy. **110**
J. Janousek (Prague, CZ)

11:00 - 12:30 RAPID FIRE ABSTRACT AGORA

Rapid Fire session 7 Arrhythmogenesis and antiarrhythmia in experimental models

Chairperson(s): U. Ravens (Freiburg, DE); A. Zienciuk (Gdansk, PL)

- 11:00 › Cardiac connexin 43 modulates susceptibility of the heart to lifethreatening arrhythmias in various experimental models. **111**
N. Tribulova, T. Egan Benova, B. Szeiffova Bacova, C. Viczenczova, L.H. Kurahara, V. Knezl, V. Nagibin, J. Slezak (Bratislava, SK; Fukuoka, JP; Kiev, UA)
- 11:10 › Transmural conduction time in early repolarization model **112**
N. Yoon, S.N. Hong, K.H. Lee, H.W. Park, J.G. Cho (Gwangju, KR)
- 11:20 › Ectopic activity from optogenetically spaped oxidative stress pattern contradicts conventional sinksource mismatch theory. **113**
A. Teplenin, A.A.F. De Vries, D.A. Pijnappels, A.V. Panfilov (Leiden, NL; Ghent, BE)
- 11:30 › An insilico analysis of the effect of changing activation wavefronts on voltage amplitudes in patients with heart failure **114**
U. C. Nguyen, M. Potse, K. Vernoooy, R. Krause, A. Auricchio, F.W. Prinzen (Maastricht, NL; Bordeaux, FR; Lugano, CH)
- 11:40 › Two independent methods show rotational drivers at sites where ablation terminates persistent atrial fibrillation prior to pulmonary vein isolation **115**
M. Alhusseini, D. Vidmar, G. Meckler, C. Kowalewski, F. Shenasa, T. Baykaner, J. Zaman, D. Krummen, P. Zei, M. Viswanathan, P. Wang, J. Brachmann, J. Miller, W.J. Rappel, S. Narayan (Stanford, San Diego and Indianapolis, US; Coburg, DE)
- 11:50 › LEDbased termination of ventricular arrhythmias in the adult rat heart upon optogenetic engineering: Towards biological shockless defibrillation **116**
E.C.A. Nyns, A. Kip, C.I. Bart, K. Zeppenfeld, M.J. Schalij, A.F. De Vries, D.A. Pijnappels (Leiden, NL)

11:00 - 12:30

RAPID FIRE ABSTRACT (CONTINUED)

AGORA

Rapid Fire session 7 Arrhythmogenesis and antiarrhythmia in experimental models

- 12:00 › Investigation of the transmural APD properties of scar borderzone in patients undergoing ventricular tachycardia ablation 117
N.T. Srinivasan, M. Orini, R. Providencia, C. Martin, M. Dhinoja, R. Hunter, M.D. Lowe, F. Khan, P.D. Taggart, R.J. Schilling, P.D. Lambiase (London, GB)
- 12:10 › Dysfunction of the pacemaker of the heart in the rat model of streptozotocininduced type I diabetes mellitus 118
Y. Zhang, Y.W. Wang, J. Yanni, X. Cai, M.A. Qureshi, N. Gardiner, F.C. Howarth, H. Dobrzynski (Manchester, GB; Al Ain, AE)
- 12:20 › Antazolinew antiarrhythmic agent and its interactions with human etheragorelated gene channels 119
B. Badyra, B. Lisowski, M. Borusewicz, R. Piotrowski, P. Kulakowski, B. Wisniowska, S. Polak (Krakow and Warsaw, PL)

LUNCHTIME SESSIONS

12:45 - 13:45

SATELLITE SYMPOSIUM

WENCKEBACH

Latest developments in pacemaker therapy

Sponsored by Medtronic

Chairperson(s): F. Leyva (Birmingham, GB); W. Jung (Villingen-Schwenningen, DE)

Learn about the results of Transcatheter Pacing in clinical study as well as in a real life setting.

Learn about new technologies enabling more patient involvement in pacing therapy.

Learn how a monitoring center can save time and hospital resources while ensuring optimal outcomes

12:45 › Introduction - Latest developments in pacemaker therapy.	120
<i>F. Leyva (Birmingham, GB)</i>	
12:50 › Clinical results with a transcatheter pacing system.	121
<i>J. Steffel (Zurich, CH)</i>	
13:05 › From remote monitoring to patient engagement: latest innovations	122
<i>S. Themistoclakis (Venice-Mestre, IT)</i>	
13:20 › A monitoring and triaging center: what are the benefits for pacemaker patients?	123
<i>I. C. Van Gelder (Groningen, NL)</i>	
13:35 › Conclusions - Latest developments in pacemaker therapy.	124
<i>W. Jung (Villingen-Schwenningen, DE)</i>	

12:45 - 13:45

SATELLITE SYMPOSIUM

MOBITZ

Addressing the impact of mitral regurgitation in heart failure: the growing value of Transcatheter Mitral Valve Repair (TMVR)

Sponsored by Abbott

Chairperson(s): K.H. Kuck (Hamburg, DE); J. J. Bax (Leiden, NL)

This session will allow you to:

- Raise awareness and update on Transcatheter Mitral Valve Repair for optimizing the treatment of Mitral Regurgitation in Heart Failure patients
- Discuss guidelines and clinical practice

12:45 › Introduction - Addressing the impact of mitral regurgitation in heart failure: the growing value of TMVR.	125
<i>K.H. Kuck (Hamburg, DE); J. J. Bax (Leiden, NL)</i>	
12:50 › Interplay between heart failure and mitral regurgitation and treatment impact.	126
<i>M. Metra (Brescia, IT)</i>	
13:05 › Why should I consider TMVR for my patient?	127
<i>A. Vahanian (Paris, FR)</i>	
13:22 › Who are the patients to refer to TMVR?	128
<i>C. Butter (Bernau/Berlin, DE)</i>	
13:40 › Take home messages.	129
<i>K.H. Kuck (Hamburg, DE)</i>	

12:45 - 13:45

SATELLITE SYMPOSIUM

COUMEL

Beat as one: do you have everything in Cardiac Resynchronization Therapy (CRT)?

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. P. H. M. Delnoy (Zwolle, NL); N. Varma (USA)

Cardiac resynchronization therapy has gone through a significant evolution. During this symposium you will get an overview of all technology that really has an effect on the outcome of CRT.

We will have a look in the current and future state of CRT, not only pure but also in combination with monitoring systems for the Pulmonary Artery

12:45 › Welcome and introduction. 130

P.P.H.M. Delnoy (Zwolle, NL); N.Varma (USA)

12:50 › Cardiac resynchronization therapy: getting the best out of the machine! 131

P.P.H.M. Delnoy (Zwolle, NL)

13:10 › What tools we have at the moment: from BiVentricular (BiV) to MultiPoint Pacing (MPP) and Left Ventricular (LV) only/or not? 132

N.Varma (USA)

13:25 › Continuous pulmonary artery pressure monitoring for the treatment of heart failure. Also in combination with CRT? 133

J.T. Heywood (La Jolla, US)

13:40 › Conclusion and closing remarks. 134

P.P.H.M. Delnoy (Zwolle, NL); N.Varma (USA)

AFTERNOON SESSIONS

14:00 - 15:30 DEBATE SESSION SOKOLOV

Indications for ICDs in 2017

Chairperson(s): D. Duplyakov (Samara, RU); A. Capucci (Bologna, IT)

14:00 › After DANISH: primary prevention of SCD with the ICD in NICM is dead! 135

J. C. Nielsen (Aarhus N, DK)

14:22 › After DANISH: primary prevention of SCD with the ICD in NICM is still alive! 136

M. R. Gold (Charleston, US)

14:45 › SC ICD for most patients without pacing indication PRO. 137

P. Neuzil (Praha, CZ)

15:07 › SC ICD for most patients without pacing indication CONTRA. 138

M. Munger (Rochester, US)

14:00 - 15:30 SYMPOSIUM SENNING

Innovative cardiac devices: do registries help innovation ?

Chairperson(s): A. S. Revishvili (Moscow, RU); F. W. Prinzen (Maastricht, NL)

To review registries on innovative cardiac devices

To explore whether registries can help innovation

14:00 › How does the S-ICD compare with a transvenous ICD? The EFFORTLESS registry. 139

P. Lambiase (London, GB)

14:18 › The MICRA registry: prime time for the leadless pacemaker? 140

N. Clementy (Tours, FR)

14:36 › How does a registry influence innovation? The Kaiser Permanente-Cardiac Device Registry. 141

N. Gupta (Los Angeles, US)

14:54 › Are registries for regulation or for innovation? 142

A. J. Camm (London, GB)

15:12 › Primary safety results from the LEADLESS observational study 143

J. Sperzel (Bad Nauheim, DE)

14:00 - 15:30 SYMPOSIUM WENCKEBACH

Interactive ECG interpretation of tachycardias

Chairperson(s): J. Brugada Terradellas (Barcelona, ES); B. Belhassen (Tel Aviv, IL)

ECG discussion and interaction with the audience

14:00 › ECG 1. Supraventricular tachycardia narrow QRS complex. 144

J. Brugada Terradellas (Barcelona, ES)

14:30 › ECG 2. Ventricular tachycardia. 145

M. Borggrefe (Mannheim, DE)

15:00 › ECG 3. Tachycardia with wide QRS complex. 146

J. L. R. M. Smeets (Gronsveld, NL)

AFTERNOON SESSIONS

14:00 - 15:30

SYMPOSIUM

MOBITZ

Treatment of electrical storm: how to improve outcome

VT and VF Summit



Chairperson(s): S. Fichtner (Muenchen, DE); To be announced

The Treatment of electrical storm is very challenging. The presentations will Focus on endpoints, strategies and the differences between variuos substrates.

An important advance in ablation techniques and new concepts and approaches has occurred in last years, with a measurable impact in outcomes after ventricular arrhythmia ablation. During the Summit the most recent advances in VT ablation for the different types of arrhythmogenic substrates will be deeply reviewed. In addition, how to deal with specific difficult substrates and how to avoid complications will also be discussed during the sessions. The management of electrical storm and its impact in improving the outcomes will be presented by leading electrophysiologists.

- 14:00 › Electrical storm: what is the best timing for intervention? 147
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- 14:22 › Ablation strategy in eletrical storm. 148
C. Carbucicchio (Milan, IT)
- 14:45 › Drugs or ablation: Is there a difference in recurrence rate and survival? 149
R. Parkash (Halifax, CA)
- 15:07 › Failed ablation: what is next? 150
P. Della Bella (Milan, IT)

14:00 - 15:30

SYMPOSIUM

MIROWSKI

How to prevent and handle complications in catheter ablation of atrial fibrillation

Atrial Fibrillation Summit



Chairperson(s): R. Cappato (Rozzano, IT); L. Perrotta (Frankfurt Am Main, DE)

To learn about the potential complications, their prevention and if they occur how to handle them from leading experts

- 14:00 › Introduction: the most important complications of catheter ablation. 151
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- 14:05 › Tamponade: recognition and treatment. 152
B. Schmidt (Frankfurt, DE)
- 14:26 › Phrenic nerve palsy: how to avoid? 153
J.M. Kalman (Victoria, AU)
- 14:47 › PV stenosis: still an issue! 154
D. L. Packer (Rochester, US)
- 15:08 › Atrial esophageal fistula: prevention and treatment. 155
C. Piorkowski (Dresden, DE)

14:00 - 15:30

SYMPOSIUM

FURMAN

The nightmare of devices infections: best strategies

Lead and Device Management Summit



Chairperson(s): P.G. Golzio (Torino, IT); L. Saghy (Szeged, HU)

The Treatment of electrical storm is very challenging. The presentations will Focus on endpoints, strategies and the differences between variuos substrates.

- 14:00 › Is it an early pocket infection? incisional infection? Early post implantation inflammation? 156
E. Nof (Tel Hashomer, IL)
- 14:22 › What to do with contralateral leads in case of ipsilateral infection? 157
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- 14:45 › How do you "bridge" your patients before reimplantation? 158
S. Boveda (Toulouse, FR)
- 15:07 › Reimplantation epicardial? endocardial? subcutaneous? lead less? 159
C.A. Rinaldi (London, GB)

14:00 - 15:30

SYMPOSIUM

COUMEL

Developing knowledge in Austrian Nurses and AHPs PART I

German speaking stream for local nurses and AHPs

Chairperson(s): S. Yamuti (Wien, AT); F. Geyrhofer (Linz, AT)

- 14:00 › Trans septal puncture, what's the nurses role: complications that can arise. 160
 Transseptal punktion, die rolle der krankenschwester: komplikationen das auftreten kann.
B. Strohmer (Salzburg, AT)
- 14:22 › EPU: what are all those lines on the monitor? Making sense of what, where and how to look and interpret. 161
 EPU: was sind alle diese Linien auf dem Monitor?
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F. Danmayr (Salzburg, AT)
- 14:45 › Mapping systems for beginners: tips and tricks for best results 162.
 Mappingsysteme für anfänger: tipps und tricks für die besten ergebnisse.
B. Haidinger (Linz, AT)
- 15:07 › Telemonitoring: nurseled telemonitoring 163.
 Telemonitoring: krankenschwester geführten telemonitoring.
L. Hinterbuchner (Bergheim, AT)

14:00 - 15:30

SYMPOSIUM

HIS

Gene and molecular therapies for cardiac arrhythmias and SCD

Chairperson(s): K. E. Odening (Freiburg, DE); A. Zaza (Milan, IT)

In this session, a panel of distinguished scientists will report on the latest development in innovative molecular therapies for genetic diseases and cardiac arrhythmias in general.

- 14:00 › Gene therapy calcium handling dysfunction in heart failure. 164
O.J. Mueller (Heidelberg, DE)
- 14:22 › Gene therapy of inherited arrhythmias. 165
C. Napolitano (Pavia, IT)
- 14:45 › Molecular strategies to treat post MI arrhythmias. 166
L. Gepstein (Haifa, IL)
- 15:07 › Gene therapy: the future of personalised atrial fibrillation management? 167
D. Thomas (Heidelberg, DE)

AFTERNOON SESSIONS

14:00 - 15:30 MAIN SESSION ELMQUIST

Repaired tetralogy of Fallot An evidence based approach to arrhythmias

Chairperson(s): J. R. De Groot (Amsterdam, NL); R.A. Gebauer (Leipzig, DE)

- 14:00 › Postsurgical anatomy. 168
S. Asirvatham (Rochester, US)
- 14:22 › Catheter and surgical ablation strategies. 169
K. Zeppenfeld (Leiden, NL)
- 14:45 › Prevention of sudden cardiac death. 170
G. P. Diller (Muenster, DE)
- 15:07 › Pacing approach to right heart failure. 171
J. Janousek (Prague, CZ)

14:00 - 15:30 RAPID FIRE ABSTRACT AGORA

Rapid Fire session 2 Cardiac pacing, syncope and monitoring

Chairperson(s): A. Garlitski (Boston, US); I E.Ovsyshcher (Beer-Sheva, IL)

- 14:00 › Pacemaker therapy after cardiac valve replacement surgery: impact on heart failure hospitalizations 172
A. Zegard, T. Qiu, D. McNulty, F. Evison, H. Marshall, M. Gasparini, F. Leyva (Birmingham, GB; Milan, IT)
- 14:10 › Pacing QRS duration is a major determinant for occurrence of pacing induced cardiomyopathy in the complete AV block over 15 year periods: multicenter study 173
K.W. Kang, J.H. Kim, T.S. Kim, Y.J. Choi (Deajeon and Daejeon, KR)
- 14:20 › Quality of life in patients with sick sinus node receiving pacemaker treatment: a comparison between AAIR and DDDR pacemakers in the DANPACE trial 174
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- 14:40 › Chronic apical and nonapical right ventricular pacing in patients with high grade atrioventricular block: results of the right pace study 176
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- 14:50 › Direct his bundle pacing in cardiac resynchronization therapy. 177
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- 15:00 › Long term results of the leadless CRT (WiSECRT) in patients with failed implantation of a conventional CRT device 178
S.F. Fehrendt, M.S. Seifert, V.M. Moeller, C.G. Georgi, C.B. Braesel, M.N. Neuss, C.B. Butter (Bernau bei Berlin, DE)
- 15:10 › Predicting vasovagal syncope from heart rate and blood pressure: a prospective study in 140 subjects 179
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- 15:20 › Validation of a new smartphone application for the diagnosis of atrial fibrillation in primary care 180
C. Mortelmans, R. Van Haelst, J. Van Der Auwera, L. Grieten, P. Vandervoort, B. Vaes (Leuven, Hasselt and Genk, BE)

Moderated Poster session 2 CRT, indications and outcome

Chairperson(s): A. Lazarus (Neuilly Sur Seine, FR); To be announced

Left ventricular pacing polarity and survival following cardiac resynchronization therapy 181

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Comprehensive economic analysis of automatic optimization algorithms in cardiac resynchronization defibrillators (CRTDs): Markov modelling under the Italian, Spanish and UK healthcare settings 182

A. Maan, S. Tsintzos, T. Goss, B. Bruggenjürgen, K.E. Heist (Providence and Boston, US; Toloche naz, CH; Berlin, DE)

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Echocardiographic definitions of response are not appropriate as surrogates for clinical response in ischemic cardiomyopathy patients. 189

A. M.W. Van Stipdonk, I.A.H. Ter Horst, M. Kloosterman, M. Rienstra, F.W. Prinzen, M. Meine, A.H. Maass, K. Vernooij (Maastricht, Utrecht and Groningen, NL)

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AFTERNOON SESSIONS

15:45 - 16:15 SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT AGORA

Future perspectives of patient optimization in heart failure

Sponsored by Boston Scientific

Chairperson(s): B. Merkely (Budapest, HU)

Many patients treated for sudden death prevention also receive therapies for heart failure. Optimization of such therapies is key for patient survival and quality of life.

15:45 › Can we deliver economically valuable therapies for heart failure patients in clinical practice? **191**

D.J. Wright (Liverpool, GB)

16:00 › Heart failure optimization - Smart options in today's devices. **192**

A. Auricchio (Lugano, CH)

16:30 - 18:00 SYMPOSIUM SOKOLOV

Predicting ICD therapies in the real world

Chairperson(s): F. D. Murgatroyd (London, GB); A. Garlitski (Boston, US)

16:30 › New data on the incidence and predictors of ICD therapy and survival Lesson from the Israeli ICD registry. **193**

M. Suleiman (Haifa, IL)

16:52 › The role of imaging in risk stratification. **194**

Speaker: J. Bax (Leiden, NL)

17:15 › Autonomic markers of arrhythmic risk. **195**

G. Schmidt (Munich, DE)

17:37 › Risk stratification and mortality in 2016: implications for ICD implantation? **196**

N. Dagues (Leipzig, DE)

16:30 - 18:00 SPECIAL SESSION SENNING

Honorary Lecture

Chairperson(s): A. J. Camm (London, GB); B. Casadei (Oxford, GB)

16:30 › Intercontinental lecture in memory of Dr Mark Josephson. Atrial Fibrillation: what went wrong? What went right? What do we need to do next? **197**

E. N. Prystowsky (Indianapolis, US)

17:15 › Einthoven Lecture: 50 years of clinical electrophysiology. **198**

H. J. Wellens (Maastricht, NL)

16:30 - 18:00 HOW TO SESSION WENCKEBACH

Focal atrial tachycardia: how to find the "hot spot"

Mobile App Interactive session.

Chairperson(s): H. Estner (Munich, DE); J.M. Kalman (Victoria, AU)

16:31 › Lessons from the surface ECG **199**

S. Asirvatham (Rochester, US)

16:52 › Conventional fluoroscopically-guided mapping and pace mapping of focal atrial tachycardia. **200**

A. Metzner (Hamburg, DE)

17:15 › 3D non-fluoroscopic mapping and ablation of focal atrial tachycardia. **201**

N. Szegedi (Budapest, HU)

17:37 › Multifocal atrial tachycardia. **202**

M. Chen (Nanjing, CN)



AFTERNOON SESSIONS

16:30 - 18:00

SYMPOSIUM

MOBITZ

How to avoid complication in VT ablation?

VT and VF Summit



Chairperson(s): C. Tondo (Milan, IT); L. E. Aguinaga Arrascue (Tucuman, AR)

An important advance in ablation techniques and new concepts and approaches has occurred in last years, with a measurable impact in outcomes after ventricular arrhythmia ablation. During the Summit the most recent advances in VT ablation for the different types of arrhythmogenic substrates will be deeply reviewed. In addition, how to deal with specific difficult substrates and how to avoid complications will also be discussed during the sessions. The management of electrical storm and its impact in improving the outcomes will be presented by leading electrophysiologists.

- 16:30 › Access site, material and technique for epicardial puncture. 203
M. Scanavacca (Sao Paulo, BR)
- 16:52 › How to avoid embolism, phrenic palsy and erosion of the coronary arteries. 204
J. L. Merino (Madrid, ES)
- 17:15 › When to use retrograde, antegrade, epicardial or robotic in VT ablation? 205
S. Ernst (London, GB)
- 17:37 › Management of complications: what do we all need to know? 206
C. de Chillou (Vandoeuvre Les Nancy, FR)

16:30 - 18:00

SYMPOSIUM

MIROWSKI

The best strategy for ablation of persistent atrial fibrillation: who makes the race?

Atrial Fibrillation Summit



Chairperson(s): C. BlomstromLundqvist (Uppsala, SE); A. Verma (Newmarket, CA)

- 16:30 › Solid PVI only is still enough. 207
E. Arbelo (Barcelona, ES)
- 16:52 › Mapping in sinus rhythm: substrate modification makes the difference. 208
S. Rolf (Berlin, DE)
- 17:15 › Mapping AF in AF: rotors and termination strategies. 209
S. Knecht (Brugge, BE)
- 17:37 › Non PV trigger ablation and LAA isolation. 210
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16:30 - 18:00

SYMPOSIUM

FURMAN

CIEDs and Lead technology: failures and fears

Lead and Device Management Summit



Chairperson(s): F. A. L. E. Bracke (Eindhoven, NL); A. Lubinski (Lodz, PL)

- 16:30 › Sprint Fidelis lead advisory: nearly 10 years. 211
C. E. H. Kennergren (Goteborg, SE)
- 16:52 › Riata leads: 6 years after the advisory. 212
C. Love (New York, US)
- 17:15 › Batterie issues: how to handle? 213
J. Steffel (Zurich, CH)
- 17:37 › Quadripolar left ventricular pacing leads: safe technology? 214
R. Providencia (London, GB)

16:30 - 18:00 SYMPOSIUM COUMEL

Developing knowledge in Austrian Nurses and AHPs PART II

German speaking stream for local nurses and AHPs

Chairperson(s): **L. Hinterbuchner (Bergheim, AT); S. Yamuti (Wien, AT)**

- 16:30 › Update CPR guidelines, are we retraining often enough? Aktualisiert CPRrichtlinien werden umschulung oft genug? **215**
F. Geyrhofer (Linz, AT)
- 16:52 › Sudden cardiac death in sports « help people learn how they can save lives” Plötzlichen herztod im sport „ Menschen helfen zu lernen, wie sie Leben retten können“! **216**
G. Fink (Graz, AT)
- 17:15 › Defibrillators, AEDs, life vests and ICDs “ not all shocks are created equal”; Defibrillatoren; AED, life vests und ICDs «nicht alle schocks sind gleich». **217**
T. Odeneg (Graz, AT)
- 17:37 › Ist CIED control after implant: optimised programming. Erste CIED kontrolle nach der implantation: optimierte programmierung. **218**
F. Danmayr (Salzburg, AT)

16:30 - 18:00 SYMPOSIUM HIS

Genetic discoveries to improve arrhythmia treatment

Chairperson(s): **H. V. Huikuri (Oulu, FI); A. A. M. Wilde (Amsterdam, NL)**

This session discusses the role of population genetics in the diagnosis and management of the risk of sudden cardiac death.

- 16:30 › Genetics, GWAS, and sudden cardiac death: an update. **219**
E. Behr (London, GB)
- 16:48 › Advances in using iPSC modeling for the study and treatment of cardiac arrhythmias **220**
L. Gepstein (Haifa, IL)
- 17:06 › Systematic family screening to reduce the burden of SCD in the young. **221**
C. Van Der Werf (Amsterdam, NL)
- 17:24 › What have we learned about AF mechanisms from GWAS? **222**
M. S. Olesen (Copenhagen, DK)
- 17:42 › Whole population screening for genetic mutations that cause inherited arrhythmia syndromes in Iceland. Is it realistic (and useful)? **223**
D.O. Arnar (Reykjavik, IS)

16:30 - 18:00 ABSTRACT PRESENTATION DAMATO

Ion channel trafficking in the heart

41st Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology

Chairperson(s): F. Charpentier (Nantes, FR); M. Stengl (Pilsen, CZ)

This session discusses the role of population genetics in the diagnosis and management of the risk of sudden cardiac death.

- 16:30 › Mechanisms of trafficking and targeted delivery of ion channels in heart 224
R. Shaw (Los Angeles, US)
- 16:48 › Combined application of the IKr blocker dofetilide and the allosteric modulator LUF7244 rescues congenital and acquired Kv1.1 trafficking defects and functional current 225
Y. Ji, M.J.C. Houtman, F. Romunde, D. Fransen, A.P. Ijzerman, L.H. Heitman, M.A. Vos, M.A.G. Van Der Heyden (Utrecht and Leiden, NL)
- 17:06 › A Rad GTPase variant related to Brugada syndrome 226
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- 17:24 › hERG potassium channel modulation by P127T KCNE1 227
Y. Zhang, N. Marrion, S. Harmer, R. Mohamed, A. Tinker, J. Hancox (Bristol and London, GB)
- 17:42 › Angiotensin II mediated oxidative stress increased the vulnerability of ventricular arrhythmia in cardiac hypertrophy rabbit model, which is suppressed by CaMKII inhibitor 228
Y.S. Lee, H. Park, B. Joung, B.C. Jung, D. Shin (Daegu and Seoul, KR)

16:30 - 18:00 MAIN SESSION ELMQUIST

Antibradycardia pacing in children

Chairperson(s): J.M. Happonen (Espoo, FI); G. Sarquella Brugada (Esplugues De Llobregat, ES)

This session discusses the role of population genetics in the diagnosis and management of the risk of sudden cardiac death.

- 16:30 › Evolving indications: what is new? 229
N. Blom (Leiden, NL)
- 16:52 › Pacing system survival: things to improve. 230
M. S. Silveti (Roma, IT)
- 17:15 › Lead implantation and extraction issues. 231
E. Rosenthal (St Albans, GB)
- 17:37 › Hemodynamic optimisation and CRT. 232
P. Kubus (Prague, CZ)

16:30 - 18:00

RAPID FIRE ABSTRACT

AGORA

Rapid Fire session 3 CRT and novel devices.

Chairperson(s): **G. Stabile (Napoli, IT); G. Z. Duray (Budapest, HU)**

- 16:30 › Activation delay vector and response to cardiac resynchronization therapy 233
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- 16:40 › A multi centre UK experience with optimal site implantation of a wireless intracardiac LV endocardial electrode (WiCSLV) for delivery of cardiac resynchronisation therapy. 234
J. M. Behar, S. James, T.R. Betts, B. Sieniewicz, A. Turley, D. Webster, S. Claridge, J. Gould, C.A. Rinaldi (London, Middlesborough and Oxford, GB)
- 16:50 › QRS vector amplitude in the transversal plane quantifies the electrical substrate favorable for response to cardiac resynchronization therapy 235
S.C. Wijers, I. Ter Horst, K. Vernooy, A.H. Maass, F.J. De Lange, C.P. Allaart, M. Rienstra, B. Geelhoed, H.J. Ritsema Van Eck, M.A. Vos, M. Meine (Utrecht, Maastricht, Groningen, Amsterdam and Rotterdam, NL)
- 17:00 › Electrical ventricular dyssynchrony parameter able to predict CRT response, MADIT-CRT trial 236
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- 17:40 › Left ventricular endocardial pacing: novel transmural approaches 240
I. Karpenko, A.A. Abramova, A. Goriachiy, M. Chanafi, D.E. Volkov (Odessa and Kharkiv, UA)
- 17:50 › Chronic performance of communicating leadless antitachycardia pacemaker and subcutaneous implantable cardioverter defibrillator 241
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18:00 - 19:05

SPECIAL EVENT

SOKOLOV

Inaugural Session



Chairperson(s): To be announced

18:15 › Welcome address by the EHRA President.

G. Hindricks (Leipzig, DE)

18:20 › Welcome address by the ESC President.

J. J. Bax (Leiden, NL)

18:25 › Welcome address by the Local host.

H. Puererfellner (Linz, AT)

18:30 › EHRA EUROPACE CARDIOSTIM 2017 Highlights from the Chairperson Scientific Programme Committee.

M. Glikson (Ramat Gan, IL)

18:35 › EHRA EUROPACE CARDIOSTIM 2017 Highlights from the Cardiostim Chairperson.

A. Lazarus (Neuilly Sur Seine, FR)

18:40 › EHRA EUROPACE CARDIOSTIM 2017 Keynote Lecture: Cardiac Regeneration.

J. M. Penninger (Vienna, AT)

19:00 › Opening Address.

G. Hindricks (Leipzig, DE)



Young EP Poster Session - Young Meets Experienced

- Young EP Poster Discussant.** **P242**
 T. J. R. De Potter (Aalst, BE); H. Heidbuchel (Antwerp, BE); E. Arbelo (Barcelona, ES); J. Kosiuk (Leipzig, DE);
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 J. Brugada Terradellas (Barcelona, ES)
- Asymptomatic cerebral embolism in ablation with the Second generation PVAC gold** **P243**
Novel oral anticoagulants vs warfarin to prevent asymptomatic cerebral lesions during ablation of atrial fibrillation **P247**
 M. Dendorfer, M. Martinek, E. Sigmund, G. Kollias, W. Jauker, M. Gschwendtner, J.
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- Percutaneous LAA closure without contrast media application **P489**
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- Zero-fluoroscopy radiofrequency and cryo-ablation of accessory pathway mediated tachycardias in the pediatric population **P494**
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- Midterm results of left ventricular apical pacing in pediatric patients with complete atrioventricular block. **P496**
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- Recovery of the ejection fraction on the left ventricle after cryoablation of junctional ectopic tachycardia diagnosed from gestation **P498**
C.O. Breton Pinto, S.R. Nava Townsend, P. Iturralde (Mexico City, MX)

08:30 - 18:30

LATE BREAKING SCIENCE POSTER SESSION

POSTER AREA

Late Breaking Science - Poster Session

These Late Breaking Science abstracts will be available for presentation in the Poster Area for the entire duration of the Clinical trial of the SonRtip

- | | |
|---|------|
| Lead and Automatic AVVV optimisation algorithm in the PARADYM RF SonR CRT-D
<i>J. Brugada Terradellas (Barcelona, ES)</i> | P500 |
| Advanced image supported left ventricular lead placement in cardiac resynchronisation therapy
<i>H.T. van den Broek (Utrecht, NL)</i> | P501 |
| New insight into the clinical polymorphism of SCNArelated arrhythmic syndromes revealed by deep phenotyping
<i>E. Zaklyazminskaya (Moscow, RU)</i> | P502 |
| Reduction of thromboembolic events during ablation using the laserballoon
<i>M. Eichenlaub (Munich, DE)</i> | P503 |

41st EWGCCE Meeting - Poster Session I

Sponsored by Boston Scientific

- Arrhythmogenesis is tempered by combined CaMKII inhibition with antifibrotic eplerenone treatment in a model of chronic pressure overload. **504**
H.E. Driessen, M. Fontes, M. Brans, M.A. Vos, T.A.B. Van Veen (Utrecht, NL)
- The effects of ageing and adrenergic challenge on electrocardiographic phenotypes in a murine model of long QT syndrome type 3 **505**
K.R. Chadda, S. Ahmad, H. Valli, I. Den Uijl, A. AlHaithi, S.C. Salvage, A. Grace, C.L.H. Huang, K. Jeevaratnam (Cambridge and Guildford, GB)
- Actions potentials, resting membrane potential instability and automaticity in the rat caval and azygos veins myocardium **506**
A.D. Ivanova (Moscow, RU)
- The expression of key small noncoding microRNAs in the human sinus node **507**
M. Petkova, J. Yanni, Y. Zhang, B. Borbas, A. Morris, A. Dsouza, A. Atkinson, Y. Wang, D. Oceandy, P. Molenaar, F. Perde, H. Dobrzynski (Manchester and Cambridge, GB; Brisbane, AU; Bucharest, RO)
- Comparing open versus closed thorax approach in studying ventricular fibrillation in a porcine model of acute myocardial infarction **508**
A.F. Lubberding, S.M. Sattler, M. Flethoj, J. Tfelt Hansen, T. Jespersen (Copenhagen, DK)
- Amiodarone in the prevention of ventricular fibrillation during first acute myocardial infarction results from a porcine model **509**
S.M. Sattler, A.L. Lubberding, L. Skibsbye, M. Flethoj, R. Jabbari, T. Jespersen, J. Tfelt Hansen (Copenhagen, DK)
- Whole atria mechanisms of inducibility and persistence of atrial arrhythmias by depletion of nNOS in human **510**
A. Muszkiewicz, X. Liu, A. BuenoOrovio, J.F. Rodriguez, B. Casadei, B. Rodriguez (Oxford, GB; Milan, IT)
- In silico trials in human ventricular and Purkinje cell models predict safety and efficacy of 10 antiarrhythmic drugs **511**
C. Trovato, E. Passini, A. Tissier, N. Nagy, A. Varro', S. Severi, B. Rodriguez (Oxford, GB; Szeged, HU; Bologna, IT)
- A new antiarrhythmic drug niferidil prolongs action potentials in guinea pig atrial myocardium via inhibition of potassium currents **512**
D. Abramochkin, V. Kuzmin, L. Rosenshtraukh (Moscow, RU)
- Enhanced expression and PKC dysregulation underlie the proarrhythmic Na⁺Ca²⁺ exchanger activity in patients with chronic atrial fibrillation **513**
S. Ghezelbash, C. Molina, M. Kamler, J. Heijman, D. Dobrev (Essen and Gottingen, DE; Maastricht, NL)
- Endocardial tissue architecture influences stimulus threshold for ventricular electrical excitation **514**
A. Kelly, A. Connolly, R.C. Myles, M.J. Bishop, G.L. Smith (Glasgow and London, GB)
- Light strike induced arrhythmia, A cause of syncope and death, recorded on spot by loop recorder for first time ever Case report **515**
N.A.I.F. Alqweai (Riyadh, SA)



Monday 19 June 2017

For more information, check the most up to date programme on
The Scientific Programme & Planner
www.escardio.org/EUROPACE

THE PACE

09:00 - 11:00

THE PACE

THE PACE ROOM I

Cardiac Resynchronisation Therapy (CRT) implant and MultiPoint Pacing (MPP) optimization

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): L. Tanghe (Waregem, BE); L. Lehman (Brussels, BE)

This session will allow you to utilize VR to implant quadripolar and learn how to optimize the patient with MPP.

09:00 - 18:00

THE PACE

THE PACE ROOM I

Ventricular Tachycardia (VT) and epicardial substrate mapping

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. Della Bella (Milan, IT)

This session will allow you to:

- Learn about Epicardial Access and Substrate ablation of VT
- Perform Epicardial Access and Substrate Ablation on Virtual Reality

11:00 - 12:30

THE PACE

THE PACE ROOM I

SecureSense algorithm

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): M.L. Hendriks (Zaandam, NL)

This session will allow you to:

- Review SecureSense Algorithm
- Learn how review SecureSense EGMs
- Discuss possible programming solutions to overcoming RV oversensing issues.

14:00 - 16:00

THE PACE

THE PACE ROOM I

Insertable cardiac monitor

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): L. Lehman (Brussels, BE); L. Tanghe (Waregem, BE); V. Antonakos (Athens, GR)

Get with the guidelines, learn about the clinical evidence, practice an implant, discover the app and how to best educate your patients.

17:00 - 18:00

THE PACE

THE PACE ROOM I

Electrocardiogram (ECG) corner

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): V. Antonakos (Athens, GR)

Discuss how to use the ECG Corner to help in clinical practice and how to navigate the website.

THE PACE

10:00 - 11:00

THE PACE

THE PACE ROOM 2

The art of personalized pacing: practical cases for therapy optimization

Sponsored by LivaNova

Chairperson(s): J. L. Merino (Madrid, ES); S. Boveda (Toulouse, FR)

This educational session will cover two topics linked with pacing personalization:

1. AV and VV delay optimization in CRT patients

To overcome the high percentage of non-responders to CRT new solutions exist. The first part of this session will present novel technology using a cardiac contractility sensor for optimizing the AV and VV delays. We will review case reports and a practical demonstration will show how this unique technology can be used in daily practice.

2. AV management for pacemaker patients

Current guidelines recommend the use of AV Management algorithms for pacemaker patients. However, not all of these algorithms are the same in terms of how they manage Long PR. This session will address the question of whether reducing right ventricular pacing should come at the cost of ignoring the risk associated with long PR? We will review current solutions illustrated by practical patient cases.

11:00 - 12:00

THE PACE

THE PACE ROOM 2

Detecting & monitoring sleep apnea to improve Atrial Fibrillation (AF) treatment success

Sponsored by LivaNova

Chairperson(s): P. Defaye (Grenoble, FR); S. Venier (Grenoble, FR)

Severe sleep apnea is highly prevalent in patients with atrial fibrillation. There is a direct impact of this co-morbidity on the outcome of AF treatment. How can cardiologists improve management of these patients by earlier detection and closer monitoring of sleep apnea? New tools like Holter-polygraphs and diagnostic features in implantable devices can be used within the cardiology department. This session will cover the practical application of these novel solutions in a multidisciplinary environment with the ultimate aim of increasing the success of AF treatment.

14:30 - 15:00

THE PACE

THE PACE ROOM 2

Lateral Vein Introducer (LVI) system: making the unreachable reachable

Sponsored by LivaNova

Chairperson(s): M. Meine (Utrecht, NL)

This workshop aims to familiarize participants with a combination of tools and techniques that allow implanters to simplify their straightforward CRT cases as well as provide them with advanced options for challenging anatomies. Interventional CRT utilizes interventional cardiology techniques for the implantation of LV leads. This session will cover techniques that utilize an injection system and specially designed tools to facilitate CS cannulation and LV lead placement. Come to this educational session and discover Interventional CRT.

15:00 - 15:30

THE PACE

THE PACE ROOM 2

Advanced Left Ventricular (LV)-lead implant procedures: snare techniques and subclavian venoplasty

Sponsored by LivaNova

Chairperson(s): S. Worley (Earleville, US)

There is an increasing need to add LV leads despite subclavian/ innominate obstruction and tortuous anatomies. Venoplasty, as it is performed by the electrophysiologist, could be a better way to manage lead placement. The objective is to highlight the procedural details, the results and the safety of venoplasty for physicians who manage many implants.

THE PACE

09:00 - 10:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management.
- New lead, two incision technique and new implant tools.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

09:00 › Managing cardiac resynchronization therapy patients from implant to clinical follow-up. 516

J. Fouhy (Clonmel, IE)

09:00 › S-ICD system evolution. 517

S. Accinelli (Genova, IT)

09:00 › High definition mapping, signal clarity, innovative portfolio. 518

B. Holmes (Cheshire, GB)

10:00 - 11:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management with quadripolar leads.
- The two incision technique shown through the technology of 3D projection mapping.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

10:00 › Focus on quadripolar leads: implanting technique and device setting before hospital discharge. 519

T. Rae (Clonmel, IE)

10:00 › S-ICD two-incision technique - 3D projection mapping. 520

A. M. van Beek (Amsterdam, NL)

10:00 › High definition mapping, signal clarity, innovative portfolio. 521

B. Holmes (Cheshire, GB)

11:00 - 12:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

During this session you will get an overview of:

- Prediction of HF events.
- Two incision technique, intermuscular technique, serratus plane block.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

11:00 › Proactive management of heart failure patients: the next step in preventive technology. 522

M. Schwarz-Wagner (Wien, AT)

11:00 › S-ICD implant evolution: new implant techniques and trends. 523

J. Flandorfer (Wien, AT)

11:00 › High definition mapping, signal clarity, innovative portfolio. 524

N. Hillier (London, GB)

THE PACE

12:00 - 15:00

THE PACE

THE PACE ROOM 3

Hands-on sessions

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

These small group sessions will give you an overview of Boston Scientific technology on HF, S-ICD evolution, implanting technique, modular combination of S-ICD with leadless pacing, and the impact of high resolution mapping on signal clarity and new technologies for ablation.

12:00 › Heart failure: hands-on sessions. 525

F. Hlauschka (Wien, AT)

12:00 › Subcutaneous defibrillator: hands-on sessions. 526

*A. Paschero (Clonmel, IE); A. M. van Beek (Amsterdam, NL); S. Accinelli (Genova, IT);
M. Laarakker (Nieuwegein, NL)*

12:00 › High definition mapping, signal clarity, innovative portfolio. 527

N. Hillier (London, GB); M. Alcantara (Altdorf, DE)

15:00 - 16:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management.
- The two incision technique shown through the technology of 3D projection mapping.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

15:00 › Managing cardiac resynchronization therapy patients from implant to clinical follow-up. 528

J. Fouhy (Clonmel, IE)

15:00 › S-ICD two-incision technique - 3D projection mapping. 529

A. M. van Beek (Amsterdam, NL)

15:00 › High definition mapping, signal clarity, innovative portfolio. 530

A. Belligoli (Villafranca - Verona, IT)

16:00 - 17:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

During this session you will get an overview of:

- CRT patient management with quadripolar leads.
- Modular combination of S-ICD with leadless pacing.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

16:00 › Focus on quadripolar leads: implanting technique and device setting before hospital discharge. 531

T. Rae (Clonmel, IE)

16:00 › Modular solutions for patients implanted with S-ICD: the next frontier of leadless technology. 532

A. Paschero (Clonmel, IE)

16:00 › High definition mapping, signal clarity, innovative portfolio. 533

A. Belligoli (Villafranca - Verona, IT)

THE PACE

17:00 - 18:00 THE PACE THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): T. Rae (Clonmel, IE)

During this session you will get an overview of:

- Prediction of HF events.
- Two incision technique, intermuscular technique, serratus plane block.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

17:00 › Proactive management of heart failure patients: the next step in preventive technology. 534

M. Schwarz-Wagner (Wien,AT)

17:00 › S-ICD implant evolution: new implant techniques and trends. 535

J. Flandorfer (Wien,AT)

17:00 › High definition mapping, signal clarity, innovative portfolio. 536

F. Guerrero (Madrid, ES)

09:00 - 18:00 THE PACE THE PACE ROOM 4

Learn more about our innovations

Sponsored by Abbott (St. Jude Medical is now Abbott)

09:00 - 10:00 THE PACE THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

11:00 - 12:00 THE PACE THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

14:00 - 15:00 THE PACE THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

15:00 - 16:00 THE PACE THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

16:00 - 17:00 THE PACE THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

08:30 - 10:00

SPECIAL SESSION

SOKOLOV

Late Breaking Trial Session



Chairperson(s): C. Leclercq (Rennes, FR); G. Hindricks (Leipzig, DE); A. J. Camm (London, GB); A. Lazarus (Neuilly Sur Seine, FR)

Learn about the results of Transcatheter Pacing in clinical study as well as in a real life setting.
Learn about new technologies enabling more patient involvement in pacing therapy.
Learn how a monitoring center can save time and hospital resources while ensuring optimal outcomes

Left atrial appendage occlusion

08:30 › The Influence of postimplant antithrombotic drug therapy on the incidence of device thrombus and stroke in the AMULET Registry Study. **537**

B. Schmidt (Frankfurt, DE)

08:40 › Thrombus formation on device in patients with atrial fibrillation after left atrial appendage occlusion for stroke prevention in a multicenter analysis **538**

L. Fauchier (Tours, FR)

08:50 › Left atrial appendage occlusion Discussion **539**

T.L. Lewalter (Munich, DE)

Atrial fibrillation ablation

09:00 › Impact of radiofrequency power and target LSI on oesophageal temperature alerts and acute procedure success during atrial fibrillation ablation: results from the PiLOTAF study **540**

M. Leo (Oxford, GB)

09:10 › Outcomes of ablation for persistent atrial fibrillation using a fiber optic contact force catheter: observations from the realworld ABLATOR Regi **541**

A. Verma (Newmarket, CA)

09:20 › Atrial fibrillation ablation – Discussion. **542**

D. Shah (Geneva, CH)

Leadless pacing

09:30 › Realworld experience with a leadless pacemaker: a comparison to the initial experience with the micra transcatheter pacemaker **543**

P.R. Roberts (Southampton, GB)

09:40 › The nanostim leadless pacemaker: battery failures and worldwide chronic device retrieval **544**

R. Knops (Amsterdam, NL)

09:50 › Leadless pacing – Discussion. **545**

V. Reddy (New York, US)

08:30 - 10:00

SYMPOSIUM

SENNING

Best research by young electrophysiologists

Chairperson(s): B. Merkely (Budapest, HU); V. Kutyifa (Rochester, US); S. N. Bogdan (Bucharest, RO)

In this session young EPs will present their best published research papers in 2016 / 2017.

08:30 › Arguments to Apply Epinephrine for Pocket Hematoma Reduction. The MAITRE Study **546**

N. Ilov (Astrakhan, RU)

08:43 › Arguments to Apply Epinephrine for Pocket Hematoma Reduction. The MAITRE Study Discussion **547**

08:50 › Impact of remote monitoring on reducing the burden of inappropriate shocks related to implantable cardioverter defibrillators lead fractures: insights from a French monocentric registry. **548**

Z.S. Souissi (Croix, FR)

MORNING SESSIONS

08:30 - 10:00 SYMPOSIUM (CONTINUED) SENNING

Best research by young electrophysiologists

- 09:03 › Impact of remote monitoring on reducing the burden of inappropriate shocks related to implantable cardioverterdefibrillators lead fractures: insights from a French monocentric registry. Discussion **549**
- 09:00 › Substrate modification or ventricular tachycardia induction, mapping, and ablation as the first step? A randomized study. **550**
J. FernandezArmenta Pastor (Sevilla, ES)
- 09:13 › Substrate modification or ventricular tachycardia induction, mapping, and ablation as the first step? A randomized study Discussion **551**
- 09:20 › Cluster Individuals Based on Phenotype and Determine the Risk for Atrial Fibrillation in the PREVEND 5 and Framingham Heart Study Populations **52**
M. Rienstra (Groningen, NL)
- 09:33 › Cluster Individuals Based on Phenotype and Determine the Risk for Atrial Fibrillation in the PREVEND and Framingham Heart Study Populations Discussion. **553**

08:30 - 10:00 HOW-TO SESSION WENCKEBACH

Atrial flutter: more than one of a kind

Mobile App Interactive session.



Chairperson(s): **B. Pezo Nikolic (Zagreb, HR); J.M. Kalman (Victoria, AU)**

- 08:31 › Understanding the surface ECG in atrial macroreentrant tachycardia. **554**
N. Saoudi (Monaco, MC)
- 08:52 › Electrophysiologic assessment, activation and entrainment mapping. **555**
T. Gaspar (Dresden, DE)
- 09:15 › Scar related atrial macroreentrant tachycardia in the right atrium. **556**
R. Schilling (London, GB)
- 09:37 › Atrial macroreentrant tachycardia after atrial fibrillation ablation. **557**
P. Jais (Bordeaux, FR)

08:30 - 10:00 HOW-TO SESSION MOBITZ

How to ablate PVCs: From the RVOT to the aortic cusp and beyond

Joint session with the Japanese Heart Rhythm Society (JHRS)



Chairperson(s): **P. Peichl (Prague, CZ); K. Hirao (Tokyo, JP)**

How to learn to ablate PVS in different anatomical substrates. In depth learning about risks, energy sources and ECG criteria and algorithms

- 08:30 › Localisation of the source. **558**
M. Goya (Tokyo, JP)
- 08:52 › RVOT and LVOT. **559**
R. Tilz (Luebeck, DE)
- 09:15 › Ablation at uncommon sites. **560**
Y. Yamauchi (Yokohama, JP)
- 09:37 › Ablation of epicardial origine. **561**
F. Marchlinski (Philadelphia, US)

08:30 - 10:00

SYMPOSIUM

MIROWSKI

Sinus rhythm is better than atrial fibrillation: the “rate vs. rhythm” studies revisited in the era of ablation**Chairperson(s): A. Natale (Austin, US); D. Kotecha (Birmingham, GB)***Critical review of the rate vs. rhythm studies of antiarrhythmic drugs and their implications for ablation of paroxysmal atrial fibrillation*08:30 › What do the “rate vs. rhythm control” studies really tell us? **562***E. N. Prystowsky (Indianapolis, US)*08:52 › Ablate atrial fibrillation to improve quality of life. **563***I. Deisenhofer (Munich, DE)*09:15 › Ablate atrial fibrillation to improve CHF and prevent ICD shocks. **564***J. Kosiuk (Leipzig, DE)*09:37 › Ablate atrial fibrillation to prevent stroke. **565***D. L. Packer (Rochester, US)*

08:30 - 10:00

SYMPOSIUM

FURMAN

CIED infections: emerging issues, diagnostic and therapeutic modalities**Chairperson(s): A. Polewczyk (Kielce, PL); C. Gerdes (Aarhus N, DK)***Critical review of the rate vs. rhythm studies of antiarrhythmic drugs and their implications for ablation of paroxysmal atrial fibrillation*08:30 › Infection of subcutaneous ICD: not an issue? **566***P. Lambiase (London, GB)*08:52 › Leadless pacemaker infection: does it exist and how to manage? **567***P. Defaye (Grenoble, FR)*09:15 › The antibiotic envelope: shall we use it for all implants? **568***C. E. H. Kennergren (Goteborg, SE)*09:37 › PET Scan: does it help? **569***P.A. Erba (Pisa, IT)*

08:30 - 10:00

SYMPOSIUM

COUMEL

Arrhythmias and heart failure**Chairperson(s): K. M. Smith (Dundee, GB); K. Wood (Atlanta, US)***To gain an understanding of the complexities involved in caring for patients with arrhythmias and heart failure*08:30 › Atrial fibrillation and heart failure – Which condition comes first and does it affect management? **570***J. G. F. Cleland (Glasgow, GB)*08:52 › Devices in heart failure: ethics and decision making at device implant. **571***J. Tagney (Bristol, GB)*09:15 › VT ablation in patients with heart failure and ICD storm Which patients are appropriate and should we deliver a 24/07 service? **572***H. Hag Yighe (Ramat Gan, IL)*09:37 › Let's talk about death: end of life management in patients with devices. **573***L.M. Hill (Co.Antrim, GB)*

08:30 - 10:00

ABSTRACT PRESENTATION

HIS

Translation of cardiac cellular electrophysiology

41st Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology

Chairperson(s): C. A. Remme (Amsterdam Z0, NL); D. Thomas (Heidelberg, DE)

08:30 › SK channels as putative antiarrhythmic targets.

574

T. Jespersen (Copenhagen N, DK)

08:48 › T309IKv7.1 mutation as a feasible founder LQT1 mutation: clinical, genetic and biophysical anal

575

M. Bebarova, A. Vejmelek, J. Hosek, I. Andrsova, I. Valaskova, R. Gaillyova, P. Vit, T. Novotny (Brno, CZ)

09:06 › Chronic endurance exercise induces ion channel remodelling and dysfunction of the atrioventricular node

576

A. D'souza, S. Nakao, M. Zi, O.J. Monfredi, Y. Wang, C. Cox, E. Gill, E.J. Cartwright, H. ~Dobrzynski, M.R. Boyett (Manchester, GB)

09:24 › Hamamy syndrome: Deciphering the role of IRX5 transcription factor in the regulation of human cardiac electrical conduction

578

Z. Reda Al Sayed, E.D. Harkous, N. Jacob, C. Bonnard, B. Reversade, K. Zibara, P. Lemarchand, N. Gaborit (Nantes, FR; Singapore, SG; Beirut, LB)

08:30 - 10:00

MAIN SESSION

DAMATO

Screening for atrial fibrillation and device detected subclinical atrial tachyarrhythmias: EHRA position document

Chairperson(s): G. H. Mairesse (Arlon, BE); G. Y. H. Lip (Birmingham, GB)

08:30 › Rationale for screenin

579

A. Banerjee (London, GB)

08:48 › Tools for screening.

580

G. H. Mairesse (Arlon, BE)

09:06 › Screening strategies.

581

J. Brachmann (Coburg, DE)

09:24 › Role of the GP, healthcare costs and patient acceptance

582

N. Claes (Stevoort, BE)

09:42 › What the consensus document says?

583

G. Boriani (Castenaso (Bo), IT)

08:30 - 10:00

SYMPOSIUM

ELMQUIST

Remote monitoring of implantable devices: disease management or just device management?

With the contribution of the ESC WG ecardiology and the EHRA Study Group ehealth and digital rhythm

Chairperson(s): J. M. Morgan (Southampton, GB); A. LaishFarkash (Haifa, IL)

To ensure audience are aware of the most recent randomised trial evidence for remote monitoring of patients with implanted devices; and where this field might be going in Europe in the next 510 years.

08:30 › OptiLink: disease management using optivol.

584

H.H. Oswald (Oldenburg, DE)

08:52 › REMHF: Is weekly monitoring worthwhile?

585

M. R. Cowie (London, GB)

09:15 › TRUST and INTIME: Hope for the future?

586

N. Varma (Cleveland, US)

09:37 › Implantable monitoringonly technologies: Cardio MEMS and LAPTOP.

587

R. Passman (Chicago, USA)

08:30 - 10:00

ORAL ABSTRACT SESSION

AGORA

Best graded abstracts

Chairperson(s): R. Beinart (Ramat Gan, IL); A. Proclemer (Udine, IT)

08:30 › The international, multicentre, dilated cardiomyopathyVT ablation registry (DCMVT) : acute outcome and followup

588

A. P. Wijnmaalen, M. Ebert, S. Baldinger, D. Andeu, V. Catto, M. Vashegi, T. Deneke, C. Piorkowski, K. Soejima, K. Shivkumar, C. Carbucicchio, A. Berruezo, G. Hindricks, W. Stevenson, K. Zeppenfeld (Leiden, NL; Leipzig, Bad Neustadt a.d. Saale and Dresden, DE; Boston and Los Angeles, US; Barcelona, ES; Milan, IT; Tokyo, JP)

08:45 › Cardiac resynchronization therapy using quadripolar versus nonquadripolar left ventricular leads programmed to singlesite left ventricular pacing impact on survival and heart failure hospitalization

589

A. Zegard, T. Qiu, E. Acquaye, H. Marshall, F. Leyva (Birmingham, GB)

09:00 › Development of a patientspecific computational fluid dynamics model of the LA in AF for stroke risk assessment

590

A. Masci, D. Forti, M. Alessandrini, F. Menghini, L. Dede, C. Corsi, A. Quarteroni, C. Tomasi (Bologna and Ravenna, IT; Lausanne, CH)

09:15 › Incidence and risk factors for infection related to cardiac implanted electronic devices. Data from the Danish Pacemaker and ICD Register on 83,974 patients

591

T. Olsen, O.D. Joergensen, J.C. Nielsen, A.M. Thoegersen, B.T. Philbert, J. Haarbo, J.B. Johansen (Odense, Aarhus, Aalborg and Copenhagen, DK)

09:30 › Intensive recreational vs. competitive athletes in the prospective multinational ICD Sports Safety Registry results from the European recreational cohort

592:

H. Heidbuchel, B. Olshansky, D. Cannom, L. Jordaens, R. Willems, F. Carre, I. Fernandez Lozano, M. Wilhelm, A. Mussigbrodt, W. Huybrechts, J. Morgan, O.G. Anfinson, D. Prior, L. Mont, R. Lampert (Antwerp and Leuven, BE; Iowa City, Los Angeles and New Haven, US; Rotterdam, NL; Rennes, FR; Madrid and Barcelona, ES; Bern, CH; Leipzig, DE; Southampton, GB; Oslo, NO; Melbourne, AU)

09:30 › Rate of pulmonary vein stenosis after radiofrequency ablation referred to mapping system

593

K. Schoene, A. Arya, C. Jahnke, I. Paetsch, A. Bollmann, G. Hindricks, P. Sommer (Leipzig, DE)

10:00 - 10:00

SPECIAL EVENT

EHRA MEMBERS LOUNGE

Speed mentoring 2



10:00 › Introduction.

T. Jespersen (Copenhagen N, DK)

10:30 › Interview 1: 10:00 10:30 Interview 2: 10:30 11:00

C. Leclercq (Rennes, FR); C. Linde (Stockholm, SE); C. Wolpert (Ludwigsburg, DE)

10:00 - 10:00

MODERATED POSTERS

POSTER AREA

Moderated Poster session 3 Arrhythmias in congenital heart disease and inherited disorders

Chairperson(s): K. H. Haugaa (Oslo, NO); Y. Buber (Raanana, IL)Ventricular dysfunction in wolffparkinsonwhite syndrome worry only in septal pathways? **594***H. Asakai, E.A. Stephenson (Tokyo, JP; Toronto, CA)*Fluorless transeptal puncture for catheter ablation of leftsided tachycardias in pediatric popula **595***M. Jan, D. Zizek, B. Antolic, U. Mazic, D. Kuhelj, T. Prolic Kalinsek, D. Jug (Ljubljana, SI)*Making a choice in management of challenging tachyarrhythmias in early childhood **596***J.S. Krivolapov, R. Batalov, S. Popov, L. Svintsova, O. Dzaffarova, I. Plotnikova (Tomsk, RU)*Zero fluoroscopy use during ablation of cardiac arrhythmias in a paediatric population **597***E. Franco, I. Sanchez, D. RodriguezMunoz, R. Matia, A. HernandezMadrid, J.L. Zamorano, J. Moreno (Madrid, ES)*Outcome of transvenous lead extraction in young children sixteen year paediatric case series. **598***A. Kontogeorgis, L. Starling, L. Wong, S. Chivers, F. RosesNoguer, J. Till, J. Clague (London, Bristol and Liverpool, GB; Barcelona, ES)*Longterm prognosis of Brugada syndrome patients with syncope **599***J. Hernandez Ojeda, E. Arbelo, S. Vidorreta, G. Sarquella Brugada, O. Campuzano, R. Brugada, L. Mont, J. Brugada (Barcelona and Girona, ES)*Incidence, clinical features and management of arrhythmias during ajmaline challenge in patients with suspected Brugada Syndrome **600***M. Toniolo, E. Dametto, S. Poli, F. Del Bianco, L. Neglia, L. Rebellato, E. Daleffe, G. ~Bernardi, A. Proclemer (Udine and Pordenone, IT)*Genetic testing identified arrhythmogenic cardiomyopathy with predominant left ventricular involvement in a cohort of patients with clinical diagnosis of familial dilated cardiomyopathy **601***A. Krebsova, M. Kubanek, L. Piherova, P. Norambuena, P. Peichl, S. Kmoch, M. Macek Sr, M. Macek Jr, J. Kautzner (Prague, CZ)*Sudden death risk in carriers of KCNH2 mutations. Influence of gender, location and type of mutation. **602***D.A. GarciaGiustiniani, J.P. Ochoa, M. OrtizGenga, R. BarrialesVilla, J. SalazarMendiguchia, M. Cicerchia, A. Lamounier Junior, J. RodriguezGarrido, J. BarrazaGarcia, I. CardenasReyes, X. FernandezFernandez, J.P. TrujilloQuintero, L. Monserrat (A Coruña and A Coruna, ES)*Videoassisted thoracoscopic cardiac sympatectomy in children and adolescents First experience. **603***K. Bieganowska, M. MiszczakKnecht, K. Pregowska, L. Grzywacz, A. Kaszuba, M. Stefanowicz (Warsaw, PL)*

10:15 - 10:45

SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT

AGORA

How can I get more than 90% success rate in Pulmonary Vein Isolation (PVI) for my atrial fibrillation patients

Sponsored by Biosense Webster

Chairperson(s): **M. Duytschaever (Gent, BE)**

During this session you will get an overview of:

- The integration of Ablation Index (AI) into a sequence of standard steps (Optimized Workflow) aims to reproduce a successful ablation strategy in a STANDARD and SIMPLE way
- Reproducibility of success ablation strategy with AI: same improved results for any Patient/Physician; effective & efficient Pulmonary Vein Isolation (PVI)

10:15 › How I can get more than 90% success rate in Pulmonary Veins Isolation (PVI) for my atrial fibrillation patients. **604**

M. Duytschaever (Gent, BE)

11:00 - 12:30

SYMPOSIUM

SOKOLOV

Moderated Poster session 3 Arrhythmias in congenital heart disease and inherited disorders

Strong statements and controversies in EP

Chairperson(s): **P. E. Vardas (Heraklion, GR); G. Hindricks (Leipzig, DE)**

Understand the results of clinical trials on new technologies; recognise the benefits but also the limitations of new technologies; improve the implementation of new technologies in clinical practice.

11:00 › LAAocclusion does not reduce ischemic stroke! **605**

A. Bollmann (Leipzig, DE)

11:05 › LAAocclusion does not reduce ischemic stroke! Panel discussion **606**

V. Reddy (New York, US); J. Brugada Terradellas (Barcelona, ES); C. BlomstromLundqvist (Uppsala, SE); K.H. Kuck (Hamburg, DE); M. R. Gold (Charleston, US); M. J. Schalij (Voorschoten, NL); T.L. Lewalter (Munich, DE); C.W. Israel (Bielefeld, DE)

11:30 › Remote device monitoring does not improve outcome **607**

M. R. Cowie (London, GB)

11:35 › Remote device monitoring does not improve outcome! Panel discussion. **608**

J. Brugada Terradellas (Barcelona, ES); K.H. Kuck (Hamburg, DE); M. R. Gold (Charleston, US); C. BlomstromLundqvist (Uppsala, SE); V. Reddy (New York, US); T.L. Lewalter (Munich, DE); C.W. Israel (Bielefeld, DE)

12:00 › VT ablation does not reduce mortality! **609**

L. M. Fiedler (Brunn Am Geb., AT)

12:05 › VT ablation does not reduce mortality! Panel discussion. **610**

V. Reddy (New York, US); P. Jais (Bordeaux, FR); J. Brugada Terradellas (Barcelona, ES); C. BlomstromLundqvist (Uppsala, SE); M. J. Schalij (Voorschoten, NL); K.H. Kuck (Hamburg, DE); T.L. Lewalter (Munich, DE); C.W. Israel (Bielefeld, DE)

11:00 - 12:30

MEET THE EXPERTS

SENNING

Young meets experienced – A case based session by the EHRA Young EP



Mobile App Interactive session.

Chairperson(s): T. J. R. De Potter (Aalst, BE); A. Sarkozy (Edegem, BE)

This session will encompass intriguing cases moderated by experienced EPs.

- 11:01 › A “FirstTimeSeen” Wide QRS Complex Tachycardia 611
B. Andrea (Rio De Janeiro, BR)
- 11:13 › A “FirstTimeSeen” Wide QRS Complex Tachycardia Discussion 612
H. Heidbuchel (Antwerp, BE)
- 11:20 › Catheter ablation of epicardial ventricular tachycardia from the coronary venous system: is endocardial mapping always required? 613
S. Boule (Lille, FR)
- 11:33 › Catheter ablation of epicardial ventricular tachycardia from the coronary venous system: is endocardial mapping always required? Discussion 614
K. Zeppenfeld (Leiden, NL)
- 11:40 › Epicardial radiofrequency catheter ablation for premature ventricular complexes :Sweet dream or nightmare? 615
S. Chatzikyriakou (Anavissos, GR)
- 11:53 › Epicardial radiofrequency catheter ablation for premature ventricular complexes: Sweet dream or nightmare? Discussion 616
C. Leclercq (Rennes, FR)
- 12:00 › Frequent arrhythmia in an unusual condition 617
E. E. Ozcan (Izmir, TR)
- 12:13 › Frequent arrhythmia in an unusual condition Discussion. 618
C. Wolpert (Ludwigsburg, DE)

11:00 - 12:30

HOW-TO SESSION

WENCKEBACH

AVnodalreentrant tachycardia: effective and safe modification AVnodal conduction



Mobile App Interactive session.

Chairperson(s): D. Katritsis (Athens, GR); H. Estner (Munchen, DE)

Understand the results of clinical trials on new technologies; recognise the benefits but also the limitations of new technologies; improve the implementation of new technologies in clinical practice.

- 11:01 › Understanding the AVnode: anatomy, fluoroscopic anatomy and catheter positions. 619
J. L. R. M. Smeets (Gronsveld, NL)
- 11:22 › Basic assessment of AVnodal conduction properties and of different input mechanisms into the AV node. 620
R. Cappato (Rozzano, IT)
- 11:45 › Target sites for AVnode modification 621
P. Peichl (Prague, CZ)
- 12:07 › Catheter ablation of atypical AVNRT. 622
J. L. Merino (Madrid, ES)

11:00 - 12:30 SYMPOSIUM MOBITZ

Antiarrhythmic therapy in patients on ventricular assist devices

Joint session with Acute Cardiovascular Care Association (ACCA) 

Chairperson(s): P. Della Bella (Milan, IT); E. De Maria (Carpi, IT)

To learn about therapy in this very challenging setting

11:00 > Acute mechanical support as part of arrhythmia management 623

E. Nof (Tel Hashomer, IL)

11:22 > LVAD technologies now and in the future. 624

C.T. Starck (Berlin, DE)

11:45 > Ablation in LVAD patients. 625

F. Sacher (Pessac, FR)

12:07 > CIEDs and LVAD patient. 626

JH. Garan (New York, US)

11:00 - 12:30 DEBATE SESSION MIROWSKI

Controversities in ablation therapy: asymptomatic atrial fibrillation and atrial fibrillation in heart failure

Chairperson(s): A. J. Camm (London, GB); A. Goette (Paderborn, DE)

Critical review of the evidence in favor and against proposing radiofrequency ablation of atrial fibrillation for the specific purpose of avoiding longterm complications from anticoagulation or stroke

11:00 > Patients with paroxysmal atrial fibrillation should undergo ablation, even if asymptomatic, to prevent stroke and lifelong anticoagulation PRO 627

D. L. Packer (Rochester, US)

11:22 > Patients with paroxysmal atrial fibrillation should undergo ablation, even if asymptomatic, to prevent stroke and lifelong anticoagulation CONTRA. 628

F. Braunschweig (Stockholm, SE)

11:45 > Ablation of atrial fibrillation should be used frequently in heart failure PRO 629

L. Di Biase (New York, US)

12:07 > Atrial fibrillation ablation is rarely needed in heart failure CONTRA. 630

F. Ruschitzka (Zurich, CH)

11:00 - 12:30 SYMPOSIUM FURMAN

Carmeliet-Coraboeuf-Weidmann lecture

41st Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology

Chairperson(s): D. Dobrev (Essen, DE)

11:00 > Funny current and cardiac rhythm 631

D. DiFrancesco (Milano, IT)

11:00 - 12:30 SYMPOSIUM COUMEL

Management of patients with atrial fibrillation: role of nurses and AHPs

Chairperson(s): J. Mudd (Middlesbrough, GB); H. Hag Yighe (Ramat Gan, IL)

To understand developments in care of patients with atrial fibrillation from several perspectives

11:00 › The ESC 2016 guidelines on the management of atrial fibrillation: what's in it for nurses and AHPs? **632**

J. M. L. Hendriks (Sittard, NL)

11:22 › Atrial fibrillation and ablation therapy: who gains most benefit: the electrophysiologist or the patient? **633**

K. Wood (Atlanta, US)

11:45 › Postdischarge ECG Holter monitoring in recently hospitalised individuals with chronic atrial fibrillation to enhance therapeutic monitoring and identify potentially predictive phenotypes **634**

S. Stewart (Melbourne, AU)

12:07 › What do patients with atrial fibrillation want from services? The patient perspective. **635**

T. Lobban (Chipping Norton, GB)

11:00 - 12:30 SYMPOSIUM HIS

Alternative pacing sites to prevent heart failure

Chairperson(s): M. Santini (Rome, IT); K. Vernooy (Maastricht, NL)

11:00 › His bundle pacing rationale technique and results. **636**

F. Zanon (Rovigo, IT)

11:22 › RV outflow tract and RV septal pacing. **637**

C. Kolb (Muenchen, DE)

11:45 › CRTP in brady indications **638**

J. N. Koneru (., US)

12:07 › How to avoid tricuspid damage by pacing. **639**

P. Friedman (Rochester, US)

11:00 - 12:30 MAIN SESSION DAMATO

Antithrombotic therapy in valvular atrial fibrillation: joint position document from EHRA and WG thrombosis

Chairperson(s): G. Y. H. Lip (Birmingham, GB); E. N. Prystowsky (Indianapolis, US); B. Rocca (Rome, IT)

11:00 › Epidemiology of valvular atrial fibrillation and implications for stroke/thromboembolism. **640**

G. Boriani (Castenaso (Bo), IT)

11:18 › Evidence for antithrombotic therapy from trials. **641**

S. Potpara (Belgrade, RS)

11:36 › Evidence for antithrombotic therapy from observational cohorts. **642**

L. Fauchier (Tours, FR)

11:54 › Mechanical heart valves, bioprostheses, TAVI. **643**

J. A. C. Morais (Leiria, PT)

12:12 › What the consensus document says **644**

G. Y. H. Lip (Birmingham, GB)

11:00 - 12:30 SYMPOSIUM ELMQUIST

The power of electronic health records and computational technologies

With the contribution of the ESC WG ecardiology and the EHRA Study Group ehealth and digital rhythm

Chairperson(s): G. Krstacic (Zagreb, HR); G. Schmidt (Munich, DE)

Discuss and review the opportunities for investigation and prediction of arrhythmic risk in long QT syndrome from genetics to proarrhythmic mechanisms

- 11:00 > Genetics of Long QT and electronic health records.. 645
E. Behr (London, GB)
- 11:22 > Computational prediction of acquired Long QT and druginduced Torsades de Pointes. 646
B. Rodriguez (Oxford, GB)
- 11:45 > Long QT in digital ECG of general population: significance and genetics 647
J. Juntila (Oulu, FI)
- 12:07 > In silico assessment of cardiac safety of antiarrhythmic drugs 648
J. Heijman (Maastricht, NL)

11:00 - 12:30 RAPID FIRE ABSTRACT AGORA

Rapid Fire session I ICD and prevention of sudden death

Chairperson(s): I. Mavrakis (Heraklion, GR); J. Tasic (Brezice, SI)

- 11:00 > Reappraisal of the value of electrophysiological study in sudden cardiac death risk stratification in hypertrophic cardiomyopathy 649
C.K. Antoniou, K. Gatzoulis, S. Georgopoulos, A. Anastasakis, A. Theopistou, S. Sideris, P. Dilaveris, P. Arsenos, D. Tsiachris, D. Tousoulis (Athens, GR)
- 11:10 > Implanted cardioverter defibrillator (ICD) therapy in patients with suspected myocarditis time of implantation and occurrence of ventricular arrhythmias 650:
V. Pavlicek, J. Wintrich, F. Mahfoud, K. Klingel, R. Kandolf, M. Boehm, I. Kindermann, C. Ukena (Homburg and Tübingen, DE)
- 11:20 > Six year followup of the initial dutch subcutaneous implantable cardioverterdefibrillator cohort: Long term complications and battery longevity. 651
A.B.E. Quast, S.C. Yap, V.F. Van Dijk, A.H. Maass, L.V.A. Boersma, D.A. Theuns, R.E. Knops (Amsterdam, Rotterdam, Nieuwegein and Groningen, NL)
- 11:30 > Longterm followup of elderly implantable cardioverterdefibrillator patients. 652
D. Yilmaz, S.M. Krips, L. Van Erven (Leiden, NL)
- 11:40 > A comparison of clinical outcomes of subcutaneous and transvenous implantable defibrillator therapy in the SIMPLE and EFFORTLESS studies 653
T. F. Brouwer, R.E. Knops, V. Kutyifa, C. Barr, B. Mondesert, L.V. Boersma, P.D. Lambiasi, N. Wold, P.W. Jones, J.S. Healey (Amsterdam and Nieuwegein, NL; Rochester and Minneapolis, US; Dudley and London, GB; Montreal and Hamilton, CA)
- 11:50 > Scar characterization to predict lifethreatening Arrhythmic events and sudden cardiac death in cardiac resynchronization therapy patients. The GAUDICRT study. 654
J. Acosta Martinez, J. Fernandez Armenta, R. Borrás, I. Anguera, F. Bisbal, J.M. Tolosana, D. Penela, M. Linhart, M. Cabrera, T.M. De Caralt, R.J. Perea, J. Ortiz, X. Bosch, L. Mont, A. Berruezo (Seville, Barcelona and Badalona (Barcelona), ES)

11:00 - 12:30

RAPID FIRE ABSTRACT (**CONTINUED**)

AGORA

Rapid Fire session I ICD and prevention of sudden death

12:00 › Safety and efficacy of the subpleural ICD lead placement in pediatric patients longterm followup da. **655**

*L. Grzywacz, M. MischakKnecht, A. Kaszuba, S. Karczarewicz, M. Posadowska,
K. Pregowska, M. Birbach, W. Lipinski, K. Bieganowska (Warsaw and Otwock, PL)*

12:20 › Reduction of inappropriate shocks of ICDs with enhanced SVT discriminators. First results from the ReduceIT study **657**

*C. Veltmann, A. Woehle, M. Busch, A. Elsaesser, T. Kleemann, J.C. Geller
(Hannover, Esslingen, Greifswald, Oldenburg, Ludwigshafen and Bad Berka, DE)*

12:45 - 13:45

SATELLITE SYMPOSIUM

SENNING

An evolving landscape: non-vitamin K antagonist oral anticoagulants in atrial tachyarrhythmias

Organised by Atrial Fibrillation Network (AFNET), supported by an unrestricted educational grant from Daiichi Sankyo Europe GmbH

Chairperson(s): A. J. Camm (London, GB); E. Simantirakis (Heraklion, GR)

This session will allow you to:

- Review current guideline recommendations for the management of patients with atrial high rate episodes
- Explore the use of anticoagulation in patients with atrial high rate episodes
- Evaluate existing data on adverse clinical outcomes including risk of stroke, death and subsequent Atrial Fibrillation (AF) in patients with atrial high rate episodes lasting at least 5 min
- Discuss ESC recommendations for the management of patients with device-detected atrial tachyarrhythmia occurring in the absence of clinically recognised AF

12:45 › Welcome and introduction. 658

A. J. Camm (London, GB); E. Simantirakis (Heraklion, GR)

12:50 › Management of patients with high atrial rate episodes: an update. 659

A. J. Camm (London, GB)

13:00 › Anticoagulation in patients with atrial high rate episodes: an update on the NOAH-AFNET 6 trial. 660

A. Goette (Paderborn, DE)

13:10 › Atrial high rate episodes in unselected stroke survivors. 661

K.G. Haeusler (Berlin, DE)

13:20 › Interactive Case study and Q&A: a patient presenting with subclinical atrial tachyarrhythmias monitored with a pacemaker. 662

F. Barbieri (Innsbruck, AT)

13:30 › Panel discussion / Q&A. 663

A. J. Camm (London, GB); E. Simantirakis (Heraklion, GR)

13:40 › Summary and meeting close. 664

A. J. Camm (London, GB); E. Simantirakis (Heraklion, GR)

12:45 - 13:45

SATELLITE SYMPOSIUM

WENCKEBACH

Establishing a new standard in AF ablation

Sponsored by Medtronic

Chairperson(s): G. Hindricks (Leipzig, DE); C. Blomstrom-Lundqvist (Uppsala, SE)

- Learn about the pros and cons of different ablation strategies for atrial fibrillation.
- Learn how to organize the ElectroPhysiology (EP) laboratory for efficient patient care.
- Learn about the strategies to ablate persistent Atrial Fibrillation (AF) patients.

12:45 › Introduction - Establishing a new standard in AF ablation. 665

C. Blomstrom-Lundqvist (Uppsala, SE)

12:50 › Latest evidence on cryoballoon compared radiofrequency catheter ablation of atrial fibrillation. 666

F. Straube (Munich, DE)

13:05 › Focusing beyond the EP: empowering the lab team to combat AF. 667

R. Schilling (London, GB)

13:20 › Ablation strategy in patients with persistent AF. 668

K.H. Kuck (Hamburg, DE)

13:35 › Conclusions - Establishing a new standard in AF ablation. 669

G. Hindricks (Leipzig, DE)

12:45 - 13:45 SATELLITE SYMPOSIUM MOBITZ

Are S-ICD clinical trial results matching up with real world practice?

Sponsored by Boston Scientific

Chairperson(s): G. L. Botto (Como, IT); L. Guedon-Moreau (Lille, FR)

During this session you will get an overview of:

1. New standard of care for Sudden Death Prevention.
2. Risks and Benefits of defibrillation therapy.
3. State-of-the-art practices for the implantation of a subcutaneous defibrillator.
4. Evolution of the screening process and discrimination algorithms for rhythm classification.

12:45 › Subcutaneous defibrillation: is it really a new standard of care? 670

G. L. Botto (Como, IT)

12:50 › Implantable cardioverter defibrillator therapy: nightmare or dream come true
How do S-ICDs and TV-ICDs compare? 671.

N. Clementy (Tours, FR)

13:06 › Latest advances in the S-ICD implantation procedure. 672

J. Winter (Dusseldorf, DE)

13:22 › Reducing inappropriate therapies with evolved S-ICD screening and discrimination algorithms. 673

D.A.M.J. Theuns (Rotterdam, NL)

13:38 › What you should know now. 674

L. Guedon-Moreau (Lille, FR)

12:45 - 13:45 SATELLITE SYMPOSIUM MIROWSKI

How can I get more than 90% success rate in Pulmonary Vein Isolation (PVI) for my atrial fibrillation patients

Sponsored by Biosense Webster

Chairperson(s): H. Kottkamp (Zurich, CH); P. Jais (Bordeaux, FR)

During this session you will get an overview of:

- The integration of Ablation Index (AI) into a sequence of standard steps (Optimized Workflow) aims to reproduce a successful ablation strategy in a STANDARD and SIMPLE way
- Long-term outcome in Afib patients: overview of all publications
- AI and Optimized WF to standardize and simplify PVI: results
- Reproducibility of success ablation strategy with AI: same improved results for any Patient/Physician; efficiency/short learning curve for young physicians

12:45 › Introduction - How can I get more than 90% success rate in Pulmonary Vein Isolation (PVI) for my atrial fibrillation patients. 675

H. Kottkamp (Zurich, CH); P. Jais (Bordeaux, FR)

12:50 › Efficacy and long-term outcome with contact force: a critical look at the literature. 676

M. O'neill (London, GB)

13:05 › Closing the gap in obtaining effective and efficient lesions formation in PVI. 677

M. Duytschaever (Gent, BE)

13:20 › Why and how a reproducible and standard Radiofrequency (RF) ablation strategy makes the difference for my patients in my lab. 678

M.M. Martinek (Linz, AT)

13:35 › Discussion/Q&A. 679

*H. Kottkamp (Zurich, CH); P. Jais (Bordeaux, FR); M. O'neill (London, GB);
M. Duytschaever (Gent, BE); M.M. Martinek (Linz, AT)*

LUNCHTIME SESSIONS

12:45 - 13:45 SATELLITE SYMPOSIUM FURMAN

Sensor-based Cardiac Resynchronization Therapy (CRT) optimization: new results from the RESPOND-CRT clinical trial

Sponsored by LivaNova

Chairperson(s): F. Zannad (Vandoeuvre Les Nancy, FR); J. Brugada Terradellas (Barcelona, ES)

RESPOND-CRT is a multicenter, randomized trial, assessing a number of clinical outcomes in CRT optimization. The study assessed the efficacy of device-based continuous CRT optimization using a sensor of contractility. This session will reveal the long-term results after a 2-year follow up period and deep dive into the benefits of this technology for typical poor responders to CRT.

12:45 › Introduction - Sensor-based Cardiac Resynchronization Therapy (CRT) optimization: new results from the RESPOND-CRT clinical trial. **680**

F. Zannad (Vandoeuvre Les Nancy, FR); J. Brugada Terradellas (Barcelona, ES)

12:45 › Sensor-based continuous optimization after two years. **681**

K. J. Gutleben (Bad Oeynhausen, DE)

13:05 › Turning the tide for poor responders to CRT. **682**

J. Singh (Boston, US)

13:25 › What really drives hospitalizations and re-admissions? **683**

K.K. Witte (Leeds, GB)

13:45 › Conclusion - Sensor-based Cardiac Resynchronization Therapy (CRT) optimization: new results from the RESPOND-CRT clinical trial. **684**

F. Zannad (Vandoeuvre Les Nancy, FR); J. Brugada Terradellas (Barcelona, ES)

12:45 - 13:45 SATELLITE SYMPOSIUM COUMEL

Insertable Cardiac Monitors (ICM): clinical evidence and new technologies

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. Della Bella (Milan, IT); R. Tilz (Luebeck, DE)

During this session you will get an overview of the clinical evidence and indications for Implantable Cardiac Monitors (ICM). We will also have a look at the latest technology in the field of ICM, integrating the aspect of remote monitoring.

12:45 › Indications and clinical evidence for ICM. **685**

L. Calo' (Marino, IT)

13:05 › What's new in the field of ICM. **686**

R. Tilz (Luebeck, DE)

13:25 › Patient engagement and compliance to remote monitoring with ICM. **687**

C. Piorkowski (Dresden, DE)

12:45 - 13:45 SATELLITE SYMPOSIUM HIS

Cardiac Resynchronisation Therapy (CRT) in 2017 - Remaining challenges and new opportunities in heart failure management

Sponsored by BIOTRONIK

Chairperson(s): C. Sticherling (Basel, CH) - T.L. Lewalter (Munich, DE)

Get insights into risk stratification of Cardiac Resynchronisation Therapy-Defibrillators (CRT-D) replacement patients, learn about new technologies for CRT in patients with chronotropic incompetence, and get a better understanding about the apparently conflicting evidence and the possible reasons about the role of remote monitoring for the management of CRT patients.

12:45 › CRT-D replacement in primary prevention patients with improved hemodynamics – can we omit the Implantable Cardioverter Defibrillator (ICD)? **688**

J. Mansourati (Brest Cedex, FR)

13:05 › Is there a need for rate adaptive pacing in CRT patients with chronotropic incompetence? **689**

M.R. Roser (Berlin, DE)

13:25 › Remote monitoring to improve CRT patient outcome - How to transfer the clinical evidence into practice? **690**

H. Burri (Geneva, CH)

LUNCHTIME SESSIONS

12:45 - 13:45

SATELLITE SYMPOSIUM

DAMATO

Increased safety of lead extraction

Sponsored by Spectranetics

Chairperson(s): C. E. H. Kennergren (Goteborg, SE) - A. Rinaldi (London, GB)

Lead extraction has changed during the last years and especially in 2017. With better tools, extractors achieve high success rates and safety. Please join us learning about latest data, technologies and when to refer patients.

12:45 › Lead extraction: a planned procedure with high success rate. 691

C. Butter (Bernau, Berlin, DE)

13:05 › Saving lives: use of an occlusion ballon for the Superior Vena Cava (SVC). 692

R. G. Carrillo (Miami, US)

13:25 › Indications. When in doubt: refer! 693

J-B. Le Polain de Waroux (Brussels, BE)

12:45 - 13:45

SATELLITE SYMPOSIUM

ELMQUIST

RE-CIRCUIT: uninterrupted dabigatran as a new strategy in atrial fibrillation ablation²¹⁴

Sponsored by Boehringer Ingelheim

Chairperson(s): G. Y. H. Lip (Birmingham, GB)

Following this session delegates will:

- Be informed about latest recommendations from international guidelines and expert consensus on the use of NOACs in patients with AF undergoing ablation.
- Understand the latest data from the RE-CIRCUIT study of uninterrupted dabigatran in patients with AF undergoing ablation.
- Appreciate the potential benefits of having a specific reversal agent available if complications arise.

12:45 › Anticoagulation care in the electrophysiology lab: what do we know so far? 694

G. Y. H. Lip (Birmingham, GB)

12:55 › New evidence on periprocedural strategies for atrial fibrillation ablation: the RE-CIRCUIT trial. 695

S. Willems (Hamburg, DE)

13:15 › RE-CIRCUIT and reversal: how will our practice change? 696

H. Calkins (Baltimore, US)

13:35 › Audience Q&A. 697

G. Y. H. Lip (Birmingham, GB)

AFTERNOON SESSIONS

14:00 - 15:30 SYMPOSIUM SOKOLOV

ICD therapy in inherited cardiac disorders: indications and identification of the best system for the appropriate patient

Chairperson(s): M. Chudzik (Lodz, PL); M. Didenko (Saint Petersburg, RU)

- 14:00 › ICD therapy in JWave syndrome. 698
G. Conte (Lugano, CH)
- 14:22 › ICD therapy in LQTS. 699
C.D.A. De Asmundis (Brussels, BE)
- 14:45 › ICD therapy in ARVC. 700
C. Wolpert (Ludwigsburg, DE)
- 15:07 › ICD in athletes Special consideration. 701
R. Lampert (New Haven, US)

14:00 - 15:30 SYMPOSIUM SENNING

The future is just ahead: young electrophysiologist initiatives of the world

A joint session with EHRA – HRS – SOLEACE APHRS



Chairperson(s): V. Kutyifa (Rochester, US); C. Leclercq (Rennes, FR)

Participants will be able to get an overview on the young EP initiatives across the globe, EHRA, HRS, SOLAECE, Brazil, and APHRS.

- 14:00 › EHRA: our view on AF ablation. 702
T. J. R. De Potter (Aalst, BE)
- 14:15 › EHRA: our view on AF ablation discussion. 703
G. Hindricks (Leipzig, DE)
- 14:20 › HRS: our view on heart failure implants. 704
G. Upadhyay (Chicago, US)
- 14:35 › HRS: our view on heart failure implants discussion. 705
M. R. Gold (Charleston, US)
- 14:40 › SOLEACE: our view on VT ablation. 706
D. Benhayon (Hollywood, US)
- 14:55 › SOLEACE: our view on VT ablation discussion. 707
M. Scanavacca (Sao Paulo, BR)
- 15:00 › APHRS: our view on stroke prevention. 708
M.T. Takigawa (Bordeaux, FR)
- 15:15 › APHRS: our view on stroke prevention discussion. 709
S. Zhang (Beijing, CN)
- 15:20 › Questions and Answers. 710

14:00 - 15:30 HOW-TO SESSION WENCKEBACH

WPW Syndromes revisited: from the ECG to AP potentials



Mobile App Interactive session.

Chairperson(s): **M. Munger (Rochester, US); B. Goronja (Banjaluka, BA)**

14:01 › Where is the pathway: precise AP localization from the surface ECG. 711

M. Shenasa (San Jose, US)

14:22 › Electrophysiologic assessment of accessory pathway conduction properties. 712

F. G. Cosio (Getafe, ES)

14:45 › Identification of successful ablation sites: AP potentials and other criteria. 713

K.H. Kuck (Hamburg, DE)

15:07 › Variants of preexcitation: the wired and tough stuff. 714

H. Kottkamp (Zurich, CH)

14:00 - 15:30 HOW-TO SESSION MOBITZ

Innovative implants for heart failure patients



Mobile App Interactive session.

Chairperson(s): **J. Akar (New Haven, US); A. Alonso Martin (Barcelona, ES)**

14:01 › Spinal cord neuromodulation. 715

P. Neuzil (Praha, CZ)

14:22 › Vagal stimulation devices. 716

P.J. Schwartz (Milan, IT)

14:45 › Intracardiac shunt devices. 717

I. Daehnert (Leipzig, DE)

15:07 › Leadless technology for CRT. 718

A. Auricchio (Lugano, CH)

14:00 - 15:30 HOW-TO SESSION MIROWSKI

Subclinical atrial fibrillation: how much is too much?

Chairperson(s): **P. E. Vardas (Heraklion, GR); T. Glotzer (Tenaflly, US)**

Uptodate review of the different methods for detecting subclinical atrial fibrillation and the decision trees to decide appropriate therapy.

14:00 › Multiple APCs as precursors of atrial fibrillation. 719

To be announced

14:22 › How to screen for atrial fibrillation in high risk population. 720

J. Healey (Hamilton, CA)

14:45 › Device detected atrial fibrillation: how much is too much? 721

C.W. Israel (Bielefeld, DE)

15:07 › Subclinical atrial fibrillation in cryptogenic stroke. 722

A. Rabinstein (Rochester, US)

AFTERNOON SESSIONS

14:00 - 15:30 SYMPOSIUM FURMAN

Pacing indications - State of art 2016

Joint Session with the Cardiac Arrhythmia Society of Southern Africa (CASSA) 

Chairperson(s): G. Baron Esquivias (Sevilla, ES); A. Chin (Cape Town, ZA)

14:00 › Carotid sinus and vasovagal syncope. 723

A. Moya I Mitjans (Barcelona, ES)

14:22 › Sinus node dysfunction. 724

A. Chin (Cape Town, ZA)

14:45 › Bundle branch block. 725

I.W.P. Obel (Johannesburg, ZA)

15:07 › Mode Selection and the role of different pacing minimisation algorithms. 726

J. C. Nielsen (Aarhus N, DK)

14:00 - 15:30 SYMPOSIUM COUMEL

Allied health professional role development in arrhythmia diagnosis and management

Chairperson(s): D. J. Orenstein (Efrat, IL); J. M. L. Hendriks (Sittard, NL)

To learn about international role developments in arrhythmia diagnosis and management

14:00 › Nurseled palpitations diagnostic clinics: the middlesbrough experience. 727

J. Mudd (Middlesbrough, GB)

14:22 › Remote monitoring: getting the best out of your remote clinics. 728

P. Nolan (Galway, IE)

14:45 › Novel interventions to improve the arrhythmia patient pathway: do we have evidence of effectiveness? 729

L. Hinterbuchner (Bergheim, AT)

15:07 › Post ablation followup and the importance of risk factor management: a job for a doctor or an advanced nurse practitioner? 730

D.H. Lau (Norwood, AU)

14:00 - 15:30 SYMPOSIUM HIS

New technologies in arrhythmias

This programme is supported by Abbott in the form of an educational grant. The scientific programme has not been influenced in any way by its sponsor.

Chairperson(s): X. To be announced (X, FR); P. Sommer (Leipzig, DE)

Up-to-date review of the different methods for detecting subclinical atrial fibrillation and the decisiontrees to decide appropriate therapy.

14:00 › New technologies in atrial fibrillation ablation. 731

C. Piorkowski (Dresden, DE)

14:18 › Advanced 3D mapping using Mediguide technology. 732

To be announced

14:36 › Novel AF monitoring tools. 733

R. Passman (Chicago, US)

14:54 › CRT Optimisation. 734

W. Hua (Beijing, CN)

15:12 › New perspectives on atrial fibrillation management. 735

To be announced

15:20 › Clinical trends in China: high voltage therapy

To be announced

AFTERNOON SESSIONS

14:00 - 15:30 MAIN SESSION DAMATO

Scientific documents from EHRA

Chairperson(s): G. Y. H. Lip (Birmingham, GB); K. H. Haugaa (Oslo, NO)

- 14:00 › Women in EP: radiation exposure during pregnancy. 736
A. Sarkozy (Edegem, BE)
- 14:18 › Management of arrhythmias in hypertension. 737
S. Potpara (Belgrade, RS)
- 14:36 › Arrhythmias in grown up congenital heart disease. 738
A. H. Madrid (Madrid, ES)
- 14:54 › Device detected subclinical atrial tachyarrhythmias: what's the evidence. 739
G. L. Botto (Como, IT)
- 15:12 › Device detected subclinical atrial tachyarrhythmias: what the consensus document says. 740
B. Gorenek (Eskisehir, TR)

14:00 - 15:30 SPECIAL SESSION ELMQUIST

The role of the ever growing amount of data: smart data will improve the quality of care

With the contribution of the ESC WG ecardiology and the EHRA Study Group ehealth and digital rhythm

Chairperson(s): M.C. Finlay (London, GB); M. M. Gulizia (Catania, IT)

- 14:00 › Data derived from wearables. 741
To be announced
- 14:22 › Deriving clinically relevant information from big data. 742
E. Morley-Fletcher (Rome, IT)
- 14:45 › Google's deep mind and innovation in healthcare. 743
G. Schmidt (Munich, DE)
- 15:07 › IBM's Watson: Innovation to improve innovation. 744
J. Rice (Yorktown Heights, US)

14:00 - 15:30 YOUNG INVESTIGATOR AWARDS ABSTRACTS AGORA

Young Investigator Award: Basic and Translational Science

Chairperson(s): A. J. Camm (London, GB); H. Puererfellner (Linz, AT)

Judge(s): P.G.A. Volders (Maastricht, NL); D. Dobrev (Essen, DE); C. Napolitano (Pavia, IT)

- 14:00 › High risk of heart failure in desmoglein-2 mutation carriers in arrhythmogenic right ventricular dysplasia/cardiomyopathy 745
P. Friedman (Rochester, US) A. Hermida, V. Fressart, F. Hidden-Lucet, E. Donal, V. Probst, J.C. Deharo, P. Chevalier, D. Klug, N. Mansencal, E. Delacretaz, P. Cosnay, P. Scanu, F. Extramiana, P. Charron, E. Gandjbakhch (Paris, Rennes, Marseille, Lyon, Lille, Boulogne-Billancourt, Tours and Caen, FR; Lausanne, CH)
- 14:15 › The antiarrhythmic effects of melatonin in different pathological conditions. 746
T. Egan-Benova, C. Viczenczova, V. Knezl, B. Szeiffova Bacova, N. Tribulova (Bratislava, SK)
- 14:30 › Integration of noninvasive imaging of repolarization and cellular modelling for personalized medicine in primary ventricular fibrillation 747
M. J. M. Cluitmans, J. Heijman, P.G.A. Volders (Maastricht, NL)

14:00 - 15:30

YOUNG INVESTIGATOR AWARDS ABSTRACTS (CONTINUED)

AGORA

Young Investigator Award: Basic and Translational Science

- 14:45 › Sex hormones affect outcome in arrhythmogenic right ventricular cardiomyopathy/dysplasia: from a stem cell derived cardiomyocyte-based model to clinical biomarkers of disease outcome **748**
D.Akdis, A.M. Saguner, K. Shah, C. Wei, A. Medeiros-Domingo, A. Von Eckardstein, T.F. Luescher, C. Brunckhorst, H.S.V. Chen, F. Duru (Zurich and Bern, CH; La Jolla, US)
- 15:00 › Optogenetic ablation of spiral wave arrhythmias by creating light lesions **749**
I. Feola, L. Volkers, R. Majumder, A.A.F. De Vries, D.A. Pijnappels (Leiden, NL)
- 15:15 › Percutaneous partially insulated epicardial tool allows low defibrillation thresholds and prevents extracardiac stimulation **750**
M. Pesl, Z. Starek, A. Killu, N. Naksuk, C. Desimone, F. Syed, F. Lehar, J. Wolf, M. Crha, P. Gaba, D. Ladewig, C. Bruce, T. Kara, P. Friedman, S. Asirvatham (Brno, CZ; Rochester, US)

15:30 - 16:30

MODERATED POSTERS

POSTER AREA

Moderated Poster session 4 - Ablation strategies for AF and VT

- Chairperson(s): L. E. Aguinaga Arrascue (Tucuman, AR); R. Beinart (Ramat Gan, IL)**
- Quantitative comparisons of different approaches for rotor identification in AF **751**
E. G. Tolkacheva, E.M. Annoni (Minneapolis, US)
- Longterm outcome of LAVA elimination in ablation of postmyocardial infarction ventricular tachycardia. **752**
M. Wolf, T. Kitamura, F. Sacher, H. Cochet, K. Vlachos, G. Cheniti, A. Frontera, M. Takigawa, R. Martin, N. Thompson, N. Derval, A. Denis, M. Hocini, M. Haissaguerre, P. Jais (BordeauxPessac, FR)
- The role of the 12leadVT ECG in patients with repaired tetralogy of Fallot: noninvasive identification of VT related anatomic isthmuses **753**
C. Brouwer, G.F.L. Kapel, M.J. Schlij, M. De Riva Silva, K. Zeppenfeld (Leiden, NL)
- Safety and feasibility of a minimally fluoroscopic approach for patients with congenital heart disease undergoing catheter ablation **754**
O. Cano Perez, P. Alonso, J. Osca, A. Andres, J. Rueda, D. Plaza, M. Ferre, M.J. SanchoTello, A. Osa, L. Martinez-Dolz (Valencia, ES)
- Nonfluoroscopic approach in atrial fibrillation ablation **755**
S. Mironovich, E. Lyan, A. Tsyganov, A. Abdrahmanov (Moscow and Sain Petersburg, RU; Astana, KZ)
- Use of novel global ultrasound imaging and continuous dipole density mapping to guide ablation in macroreentrant tachycardias **756**
C.A. Martin, S. Honarbakhsh, A. Mclean, P.D. Lambiase (London, GB)
- Role of durable isolation of the left atrial appendage: data from remapping procedures **757**
S. Bordignon, L. Perrotta, F. Bologna, A. Konstantinou, M. Hilbert, K. R. J. Chun, B. Schmidt (Frankfurt a.M., DE)
- Man vs. Maschine for ablation of ventricular arrhythmias: a direct comparison of remote magnetic navigation versus manual-guided ablation of ventricular arrhythmias **758**
E. Rexha, A. Metzner, E. Wissner, B. Reissmann, T. Maurer, C. Heeger, C. Lemes, L. Rottner, T. Fink, J. Riedl, F. Santoro, S. Mathew, F. Ouyang, K. Kuck, C. Sohns (Hamburg, DE)
- A substrate targeted ablation strategy improves outcomes in patients with persistent atrial fibrillation **759**
G. Ciconte, J. Mangual, W. Li, L. Mcspadden, M. Conti, M. Saviano, A. Cuko, R. Vitale, F. ~Lipartiti, G. Vicedomini, C. Pappone (San Donato Milanese, IT; Sylmar, CA, US)
- The correlation between excessive transmural injury after pulmonary vein isolation and bonus freeze protocol using the secondgeneration 28 mm cryoballoon for paroxysmal atrial fibrillation **760**
Y. Yoshiga, A. Shimizu, T. Ueyama, M. Ono, H. Ishiguchi, M. Yano (Ube, JP)

15:45 - 16:15 SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT AGORA

Multifactorial prediction of HF decompensation and potential impact on patient outcome

Sponsored by Boston Scientific

Chairperson(s): C. Leclercq (Rennes, FR)

Many patients at risk of Sudden Death and treated with ICD/S-ICD are also patients suffering of Heart Failure (HF) and specific tools for remote monitoring can help managing the disease and prevent hospitalizations. A Multiparametric approach, based on multiple sensors implemented in the implanted devices, is key for early detection of HF exacerbation.

15:45 › How can we predict and successfully prevent heart failure events in daily practice? 761

M. R. Cowie (London, GB)

16:00 › New HF diagnostic tools in clinical practice (HF sensor suite). 762

A. Capucci (Bologna, IT)

16:30 - 18:00 SYMPOSIUM SOKOLOV

Learning from the expert: CRT implantation techniques

Chairperson(s): E. Nof (Tel Hashomer, IL); J. M. Tolosana (Barcelona, ES)

16:30 › How to perform peripheral and coronary venoplasty for LV lead implantation. 763

S. Worley (Earleville, US)

16:52 › The use of snaring techniques in CRT. 764

J. B. Johansen (Odense M, DK)

17:15 › How to minimise fluoroscopy in CRT implantation. 765

M. Doering (Leipzig, DE)

17:37 › Techniques for LV endocardial implantation. 766

N. Lopez-Cabanillas (Buenos Aires, AR)

16:30 - 18:00 SYMPOSIUM SENNING

Practical approaches in the catheter ablation of complex arrhythmias

Chairperson(s): A. Sarkozy (Edegem, BE); Y.M. Cha (Rochester, US)

Leading female experts are going to discuss catheter ablation of complex arrhythmias and their own practical approaches of these procedures

16:30 › Current approaches of persistent atrial fibrillation ablation: my preferred approach. 767

I. Deisenhofer (Munich, DE)

16:52 › Catheter ablation in congenital heart disease: my preferred approach. 768

S. Ernst (London, GB)

17:15 › Epicardial catheter ablation of ventricular arrhythmias: my preferred approach. 769

U. Tedrow (Boston, US)

17:37 › Current approaches of ischemic ventricular tachycardia ablation: my preferred approach. 770

K. Zeppenfeld (Leiden, NL)

16:30 - 18:00 SYMPOSIUM WENCKEBACH

The ECG and the risk of sudden death



Mobile App Interactive session.

Chairperson(s): J. Brugada Terradellas (Barcelona, ES); G. Van Hare (Saint Louis, US)

ECG and clinical cases discussion and interaction with the audience

I. Deisenhofer (Munich, DE)

16:31 › Case 1. Preexcitation syndromes. 771

C. Pappone (San Donato Milanese, IT)

17:00 › Case 2. Abnormal repolarization syndromes. 772

I. Fernandez Lozano (Madrid, ES)

17:30 › Case 3. ECG in structural heart disease and high risk of sudden death. 773

S. Richter (Leipzig, DE)

16:30 - 18:00 MAIN SESSION MOBITZ

Newer devices: coming soon in the arena of clinical practice?

Chairperson(s): P. Friedman (Rochester, US); F. Prinzen (Maastricht, NL)

16:30 › Combined subcutaneous ICD and leadless VVI pacemaker: coming soon? 774

L.V.A. Boersma (Nieuwegein, NL)

16:48 › Leadless VDD pacemaker: coming soon? 775

J. Sperzel (Bad Nauheim, DE)

17:24 › Leadless LV pacing: coming soon? 777

C. Butter (Bernau/Berlin, DE)

17:42 › Pulmonary pressure monitoring: coming soon? 778

C. Butter (Bernau/Berlin, DE)

16:30 - 18:00 SYMPOSIUM MIROWSKI

New strategies for prediction, prevention and treatment of atrial fibrillation

Joint Session with the Asia Pacific Heart Rhythm Society (APHRS)



Chairperson(s): I. C. Van Gelder (Groningen, NL); S. Zhang (Beijing, CN)

Uptodate review of the treatment of atrial fibrillation with emphasis on contemporaneous therapy

16:30 › Drugs for atrial fibrillation in 2017: what's new? 779

S. H. Hohnloser (Frankfurt, DE)

16:52 › Life style changes and sleep apnoea treatment. 780

P.S. Sanders (Adelaide, AU)

17:15 › Ablation therapy in 2017 – Any major breakthrough? 781

S.A. Chen (Taipei, TW)

17:37 › Genetic risk prediction of atrial fibrillation. 782

E. Arbelo (Barcelona, ES)

AFTERNOON SESSIONS

16:30 - 18:00 SYMPOSIUM FURMAN

Conduction and pacing induced cardiomyopathy

Chairperson(s): **G. L. Botto (Como, IT); M. Stockburger (Nauen, DE)**

16:30 › Overt anteroseptal accessory pathway induced heart failure. 783

M. Stuehlinger (Innsbruck, AT)

16:52 › Mechanisms and Pathophysiology of RV pacing induced CMP. 784

A. Bank (St. Paul, US)

17:15 › Prevention of CMP by RV septal pacing, RVOT pacing, his bundle pacing. 785

L. Padeletti (Firenze, IT)

17:37 › Treatment Results of upgrade to CRTD or CRTD? 786

K. Dickstein (Stavanger, NO)

16:30 - 18:00 SYMPOSIUM COUMEL

Tips for service development presentations and publishing results – Potential abstract development

Chairperson(s): **S. Stewart (Melbourne, AU); K. Wood (Atlanta, US)**

16:30 › Identifying a need for development: the importance of data. 787

C. E. Shepherd (Bristol, GB)

16:52 › Service evaluation: The Dundee arrhythmia service experience. 788

K. M. Smith (Dundee, GB)

17:15 › Presenting your project: how to choose which meeting and which journal to submit to. 789

E. Kletsiou (Athens, GR)

17:37 › Why bother? Impact of sharing your results both on other services and to patients. 790

L.M. Hill (Co. Antrim, GB)

16:30 - 18:00 ABSTRACT PRESENTATION HIS

Novel avenues for cardiac cellular electrophysiology

41st Meeting of the ESC Working Group on Cardiac Cellular Electrophysiology

Chairperson(s): **G. Antoons (Maastricht, NL); G. L. Smith (Glasgow, GB)**

16:30 › Circadian regulation of ion channel expression and function 791

B. Delisle (Lexington, US)

17:06 › A novel approach to cardiac repolarization memory through dynamic restitution portraits: a single-cell computational study 792

M. Zaniboni (Parma, IT)

17:24 › Validation of cardiac optogenetics against patch clamp electrophysiology in human cardiomyocyte drug efficacy and safety studies 793

S. Bjork, E. Ojala, T. Nordstrom, E. Kankuri, E. Mervaala (Helsinki, FI)

16:48 › Correcting PRKAG2 mutation in induced pluripotent stem cells using CRISPR/Cas9 eliminates arrhythmic firing patterns in the derived cardiomyocytes 794

R. Ben Jehuda, B. Eisen, Y. Shemer, M. Gherghiceanu, M. Arad, O. Binah (Haifa and Tel Hashomer, IL; Bucharest, RO)

17:42 › A novel molecular approach to correct L-type calcium channel dysfunction associated with Brugada syndrome 795

D. Catalucci, P. Ceriotti, F. Lodola, V. Novelli, M.L. Bang, C. Napolitano, S.G. Priori (Milan and Pavia, IT)

AFTERNOON SESSIONS

16:30 - 18:00 MAIN SESSION DAMATO

Atrial fibrillation ablation update, joint document with HRS

Chairperson(s): H. Calkins (Baltimore, US); G. Hindricks (Leipzig, DE)

16:30 › Indications for catheter ablation. 796

C. Tondo (Milan, IT)

16:48 › Strategies, techniques, and endpoints. 797

K.-H. Kuck (Hamburg, DE)

17:06 › Procedural aspects, antithrombotic treatment and complications. 798

E. Saad (Rio De Janeiro, BR)

17:24 › Clinical trial design. 799

A. Verma (Newmarket, CA)

17:42 › Key take home messages and general discussions. 800

G. Hindricks (Leipzig, DE); H. Calkins (Baltimore, US)

16:30 - 18:00 SYMPOSIUM ELMQUIST

The asymptomatic athlete with abnormal ECG: all sports forbidden?

Joint Session with the European Association for Cardiovascular Prevention & Rehabilitation (EACPR) 

Chairperson(s): L. Mont (Barcelona, ES); F. Bianchi (Turin, IT)

Rational and evidenced based risk assessment in athletes with asymptomatic heart disease unraveled by screening

16:30 › Asymptomatic athlete with mild hypertrophic cardiomyopathy: unanimous disqualification? 801

N. Sheikh (London, GB)

16:52 › Athlete with asymptomatic ARVD: any sports? 802

H. Estner (Munich, DE)

17:15 › Athlete with significant bradycardia. 803

G. Stix (Vienna, AT)

17:37 › Athlete with asymptomatic ventricular arrhythmias. 804

H. Heidbuchel (Antwerp, BE)

16:30 - 18:00 YOUNG INVESTIGATOR AWARDS ABSTRACTS AGORA

Young Investigator Award: Clinical

Chairperson(s): M. Glikson (Ramat Gan, IL); C. Napolitano (Pavia, IT)

Judge(s): S. Viskin (Tel Aviv, IL); C. Wolpert (Ludwigsburg, DE); M. Brignole (Lavagna, IT)

Ten-year clinical outcome after circumferential pulmonary vein isolation utilizing the Hamburg approach in patients with symptomatic drug-refractory paroxysmal atrial fibrillation 805

C. Heeger, R.R. Tilz, A.M. Saguner, A. Wick, A. Metzner, A. Rillig, B. Reissmann, C. Lemes, T. Maurer, F. Santoro, J. Riedl, C. Sohns, S. Mathew, K.H. Kuck, F. Ouyang (Hamburg, Luebeck and Berlin, DE; Zurich, CH)

Implantable loop recorders and short episodes of rapid atrial rate: relevant in the medical work-up of patients with embolic strokes of unknown source. 806

S.I. Llerena Butron, J.A. San Roman Calvar, M. Sandin Fuentes, L.R. Bulnes Garcia, G. Largaespada Perez, S. Bombin Gonzalez, I. Gomez Salvador, R. Barrera Paredes, J. Arenillas, J.A. Rubio Sanz (Valladolid, ES)

16:30 - 18:00

YOUNG INVESTIGATOR AWARDS ABSTRACTS (CONTINUED)

AGORA

Young Investigator Award: Clinical

- Identifying the optimal location for LV endocardial pacing: results from a multicentre international registry **807**
B. Sieniewicz, J. Behar, M. Sohal, J. Gamble, T. R. Betts, P. Jais, N. Derval, D. Spragg, P. Steendijk, B. Van Gelder, F. Bracke, A. Rinaldi (London and Oxford, GB; BordeauxPessac,FR; Baltimore, US; Leiden and Eindhoven, NL)
- Scar composition and transmuralità derived from LGE MRI predicts VT in post-infarct patients **808**
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)
- QRS area as superior electrocardiographic predictor of response to CRT **809**
A. M. W. Van Stipdonk, I.A.H. Ter Horst, M. Kloosterman, M. Rienstra, F.W. Prinzen, M. Meine, A.H. Maass, K. Vernooij (Maastricht, Utrecht and Groningen, NL)
- A minimal-invasive method for chronic epicardial pacing: acute and longterm results **810**
F. Gross, M. Bartosch, L. Ghaeni, M. Sigler, B. Schmitt, F. Berger, B. Peters (Berlin and Gottingen, DE)

18:15 - 19:30

SATELLITE SYMPOSIUM

WENCKEBACH

Diagnosis of atrial fibrillation in high risk patients

Sponsored by Medtronic

Chairperson(s): **A. Ungar (Florence, IT); J. H. Svendsen (Copenhagen, DK)**

Learn which tools and technologies are available to reliably detect atrial fibrillation in patients at high risk for stroke. Learn which clinical evidence exists for the use of monitoring tools.

Learn how a monitoring and triaging center may reduce hospital resources, ensure a fast response to clinical important events and potentially improve patient's outcome

18:15 › Introduction - Diagnosis of Atrial Fibrillation (AF) in high risk patients. 811

J. H. Svendsen (Copenhagen, DK)

18:25 › AF detection in Implantable Cardioverter Defibrillator (ICD) patients. 812

G. Boriani (Castenaso (Bo), IT)

18:40 › AF detection in patients at high risk for stroke. 813

R. Wachter (Goettingen, DE)

18:55 › AF detection in cryptogenic stroke. 814

K. Santos (Lisboa, PT)

19:10 › A monitoring and triaging center: what are the benefits for Insertable Cardiac Monitor (ICM) patients? 815

A. Zaidi (Manchester, GB)

19:25 › Conclusions - Diagnosis of AF in high risk patients. 816

A. Ungar (Florence, IT)

Poster Session 2

Nursing and Allied Professions

- Effect of individualised education sessions on the knowledge level of patients with atrial fibrillation. **P817**
L. Desteghe, L. Engelhard, J. Vijgen, P. Koopman, D. DillingBoer, J. Schurmans, P. Dendale, H. Heidbuchel (Hasselt and Edegem, BE)
- The utility of ^{99m}TcPyrophosphate SPECTMDCT in diagnosis of myocarditis in patients with atrial fibrillation **P818**
Y. Ilyushenkova, S.I. Sazonova, R.E. Batalov, Y.U.V. Rogovskaya (Tomsk, RU)
- Outcome of a streamlined care pathway for patients with previously undetected atrial fibrillation (AF) in surgical pre admission clinics (PAC) with dedicated cardiac rhythm management **P819**
J. Mudd, A. Hall, A. Rice, A. Theakston, A. Iglesias, J. Owen, C. Wyatt, A.J. Turley, N.J. Linker (Middlesbrough, GB)
- The lateral dorsal peripheral vein for vascular access of axillary vein location during CIED lead implantation **P820**
S. H. Moon, J.H. Kwon, J. Kim, G.B. Nam, K.J. Choi, Y.H. Kim (Seoul, KR)
- Initial experience of cardiovascular implantable electronic devices management using the onview crm system vs the hospital electronic medical records: a headtohead comparison **P821**
D. J. Orenstein, M. Afifi, Y. Elitzur, Y. Gotsman, Z. Sharon, D. Luria (Jerusalem, IL)
- Patients with atrioventricular blocks and frailty syndrome do not have advantages from pacemaker implantation **P822**
A. Mlynarska, R. Mlynarski, K. Golba (Katowice, PL)
- Depression in ICD patients: is it all about treatment expectations? **P823**
S.S. Pedersen, J. Denollet, B. Van Veen, M. Habibovic (Odense, DK; Tilburg, NL)
- Real Care: minimising diagnostic time in the implantable loop recorder population **P824**
G. Pounds, J. J. Murphy, A. P. S. Hungin, D. W. Wilson, J. K. Curry (Darlington and Durham, GB)
- Remote monitoring of implantable loop recorders, when is more too much? **P825**
G. Pounds, J. J. Murphy, D. W. Wilson, A. P. S. Hungin (Darlington and Durham, GB)
- Atrial Fibrillation Clinical and epidemiological aspects**
- Rhythm versus rate control in patients with atrial fibrillation combined with left ventricular systolic dysfunction: a metaanalysis **P826**
J. Ahn, M.J. Cho, H.J. Kim, Y.H. Kim (Busan and Seoul, KR)
- Experience using interventional epicardial left atrial appendage ligation **P827**
K. M. Nentwich, P. Halbfass, F. Fochler, E. Ene, K. Sonne, S. Kerber, T. Deneke (Bad Neustadt an der Saale, DE)
- Optimal dose of dabigatran for the prevention of thromboembolism with minimal bleeding risk in patients with atrial fibrillation: from asian perspectives **P828**
K. H. Lee, H.W. Park, J.G. Cho, N.S. Yoon, H.S. Mun (Gwangju and Seongnam, KR)
- Modified application of SAMETTR score in Asian patients with atrial fibrillation for choice of oral anticoagulants **P829**
K. H. Lee, H.W. Park, N.S. Yoon, J.G. Cho, H.S. Mun, S.J. Jun (Gwangju, Seongnam and Gunsan, KR)
- Which factors recorded during routine care predict treatment discontinuation of novel oral anticoagulants in patients with nonvalvular atrial fibrillation? **P830**
M. Johnson, C. Lefevre, D. Evans, L. Lacoïn, E. Ridha, A. Maguire, G. Stynes, S. Collings (London, GB; Paris, FR)
- Association between the epicardial adipose tissue and coronary artery vasospasm during pulmonary vein isolation **P831**
K. Minami, K.K. Kumagai, Y.S. Sugai, S.O. Oshima (Maebashi, JP)

- Persistence after initiation of oral anticoagulant for atrial fibrillation in France P832
L. Fauchier, F. Mouquet, D. Duhot, G. Stynes, V. Vannier, C. Lefevre, J. Asmar, G. Bizouard, A. Maguire, M. Johnson, S. Collings (Tours, FR)
- Progression of left atrial fibrosis in atrial fibrillation according late gadolinium enhancement magnetic resonance imaging: a three year prospective follow up P833
O. Aparina, O. Stukalova, N. Mironova, S. Ternovoy, S. Golitsyn (Moscow, RU)
- Long term monitoring for atrial fibrillation in patients with transient ischemic attack P834
K.B. Pedersen, C.M. Madsen, N.C.F. Sandgaard, S. Bak, A. Brandes (Odense, DK)
- Prognosis in patients with atrial fibrillation and sinus node disease in a community based cohort study. P 835
L. Fauchier, A. Bodin, A. Bisson, C. Andre, N. Clementy, B. Pierre, G. Lip, D. Babuty (Tours, FR; Birmingham, GB)
- Net clinical benefit of oral anticoagulation in very elderly patients with atrial fibrillation: something better than vitamin k antagonists needed? P836
L. Fauchier, A. Bisson, N. Clementy, C. Andre, B. Pierre, D. Angoulvant, D. Babuty, G. Lip (Tours, FR; Birmingham, GB)
- Gender related differences in management of nonvalvular atrial fibrillation: analysis of multicenter registry (An observational prospective cohort for COmparison study of Drugs for symptom control an P837
J. M. Lee, T.H. Kim, M.J. Cha, J.B. Park, J.K. Park, J. Shim, K.W. Kang, J.S. Uhm, J. Kim, H.W. Park, Y.S. Lee, E.K. Choi, J.B. Kim, C.S. Kim, B. Joung (Seoul, Gwangju and Daegu, KR)
- The impact of early recurrence of atrial tachyarrhythmias after pulmonary antrum isolation for nonparoxysmal atrial fibrillation P838
K. Kaitani, A. Kobori, K. Inoue, T. Kurotobi, I. Morishima, H. Yamaji, K. Satomi, Y. Nakazawa, K. Kusano, S. Shizuta (Tenri, Kobe, Osaka, Ogaki, Okayama, Shiga and Kyoto, JP)
- The Association between atrial fibrillation related traits and low skeletal muscles P839
K. Irie, M. Fukata, K. Fujita, H. Noda, S. Moriyama, T. Yokoyama, T. Arita, K. Odashiro, K. Akashi, T.O.R.U. Maruyama (Fukuoka, JP)
- Understanding the incidence of AF in single chamber ICD patients: a real world analysis P840
G. Boriani, A. Deshmukh, M.L. Brown, J. Koehler, P.A. Friedman (Modena, IT; Rochester, MN and Mounds View, US)
- Clinical profile and outcomes in octogenarians with atrial fibrillation: a community based study in a specific European health care area. P841
M. Rodriguez Manero, D. Alvarez Iglesias, E. Lopez Pardo, A. Cordero, J.L. Martinez Sande, J. Garcia Seara, C. Pena Gil, X.A. Fernandez Lopez, A. Varela Roman, J.R. Gonzalez Juantey (Santiago de Compostela, ES)
- Warfarin versus direct oral anticoagulants before pulmonary vein isolation for nonvalvular atrial fibrillation P842
M. Yamada, T. Harada, M. Takano, I. Nakajima, Y. Akashi (Kawasaki, JP)
- Poor quality oral anticoagulation with vitamin K antagonists accelerates decline in renal function in patients with atrial fibrillation P843
M. Polovina, D. Djikic, A. Vlajkovic, M. Vilotijevic, I. Petrovic, M.C. Ostojic (Belgrade, RS)
- Atrial fibrillation is an Independent predictor of mortality in patients undergoing coronary angiography. P844
N. Teodorovich, Y. Kogan, M. Jonas, G. Gandelman, J. George, M. Swissa (Rehovot, IL)
- Assessment of pulse wave pressure changes for detection of arrhythmia and comorbidities using a wrist worn wearable device P845
M. G. Chelu, N.F. Marrouche (Salt Lake City, US)

- Length of hospital stay to longterm mortality in patients with atrial fibrillation: evidence from the AFFIRM trial
M. Proietti, B. Olshansky, G.Y.H. Lip (Birmingham, GB; Iowa City, US) P846
- Diagnostic yield of 7day holter ECG monitoring for new AF and association with comorbidities. Outcomes in an allcomer cohort from a large teaching trust.
M. Jawad Ul Qamar, Y. Purmah, M. Nawaz, P. Kirchhof (Birmingham, GB) P847
- How multinational community pharmacists used af association pulse rhythm check campaign (know your pulse) to raise awareness of and identify people at risk of af
T. Lobban, N. E. Breakwell, S. Antoniou (Stratford Upon Avon and London, GB) P848
- Relationship between time in therapeutic range and studylevel factors in patients treated with vitamin k antagonists: a systematic review and metaregression
P. Cheli, M. Proietti, A. Farcomeni, C. Ferri, G.Y.H. Lip (Birmingham, GB; Rome and L'Aquila, IT) P849
- Atrial Fibrillation Mechanisms**
- LA size and ANP predict electroanatomical substrate in AF patients undergoing radiofrequency catheter ablation
J. Kornej, P. Buettner, D. Husser, G. Hindricks, A. Bollmann (Leipzig, DE) P850
- Female gender is an independent determinant of left atrial fibrosis assessed by cardiovascular magnetic resonance
J. Mesquita, A. M. Ferreira, S. Guerreiro, J. Abecasis, C. Saraiva, G. Rodrigues, M. Goncalves, D. Bento, F. M. Costa, P. Carmo, F. Morgado, D. Cavaco, P. Adragao, M. Mendes (Carnaxide and Faro, PT) P851
- Impact of ischemic and valvular heart disease on atrial excitation: a highresolution epicardial mapping study
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A. Naimushin, D. Bar Lev, E. Naimushin, I. Lipchenka, O. Gurevich, R. Beinart, E. Nof, M. Glikson (Ramat Gan and Jerusalem, IL)
- Prevalence of pulmonary embolism among patient with intermediate risk syncope, evaluated in syncope unit P1027
A. Naimushin, D. Bar Lev, G. Rozen, M. Abu Hadba, S. Laufer, R. Mahaina, J. Or, M. Glikson (Ramat Gan, IL)
- Accuracy of algorithms in locating overt accessory pathways based on electrocardiograms from adult patients with Wolff-Parkinson-White syndrome P1028
J. B. Augusto, M. Faustino, J. Simoes, N. Cabanelas, F. Madeira, C. Morais (Amadora, PT)
- Respiratory variability of sinus node activation in humans: insights from ultra high density mapping. P1029
G. Garret, D.G. Latcu, S.S. Bun, A.A. Amoura, B. Enache, T. Delassi, N. Saoudi (Monaco, MC)

- Chronic application of electrical microcurrent is safe and does not impair cardiac function P1030
J. Mueller, T. Giesel, T. Toellner, K. Brandes, B. Kapeller, A. Strautmman, A. Prehn, R. Alnajjar, B. K. Podesser, A.M. Kramer, P. Goettel, K. Macfelda (Berlin, DE; Vienna, AT)
- ECG and eCardiology**
- Elevated brain natriuretic peptide level can predict the clinical course of paroxysmal atrioventricular block P1031
H. Mori, R. Kato, Y. Ikeda, K. Goto, S. Asano, S. Tanaka, Y. Shiki, S. Iwanaga, S. Nishimura, T. Muramatsu, K. Matsumoto (Hidaka, JP)
- Evaluation of Tpe Interval, Tpe/QT Ratio, and Tpe/QTc Ratio in Patients with Acute Myocarditis P1032
F.M. Ucar (Edirne, TR)
- Decreased stroke volume during postectopic beat is associated with ventricular premature complex-related symptom in patients with idiopathic ventricular premature complexes P1033
H. B. Gwag, E.K. Kim, J.K. Hwang, S.J. Park, Y.K. On, J.S. Kim, K.M. Park (Seoul, KR)
- Frequency domain analysis of surface ECG enables distinction of patients with brugada syndrome P1034
D. Garcia Iglesias, E. Jove Perez, P. Penayafiel Verdu, I. Valverde, M. Gonzalez Vasserot, J.M. Rubin Lopez, D. Perez Diez, A. Garcia Alberola, C. Moris De La Tassa, J.L. Calvo Rolle, J. De Cos Juez, D. Calvo Cuervo (Oviedo, A Coruña, Murcia and Gijon, ES)
- Increased aortic stiffness is a strong risk factor for the development of stroke in patients with atrial fibrillation P1035
H.M. Tsao, W.C. Hu, S.A. Chen (YiLan, ChungLi and Taipei, TW)
- Association between genotype and longterm outcome of ventricular involvement patterns in arrhythmogenic right ventricular cardiomyopathy/dysplasia P1036
D. Akdis, A.M. Saguner, A. MedeirosDomingo, S.H. Baldinger, H. Burri, T.F. Luescher, C. Brunckhorst, F. Duru (Zurich, Bern and Geneva, CH)
- Postablation mahaim accessory pathway automaticity: a rare cause of recurrent symptoms P1037
L. Leung, C. GonzalezMatos, A. Bajpai, M. Saba (London, GB; Seville, ES)
- Evaluation of atrial conduction time in relation to p wave dispersion in patients with different degree of hypertension arterialis with no history of paroxysmal atrial fibrillation P1038
D. Djikic, N. Mujovic, B. Dejanovic, A. Kocijancic, N. Jankovic, M. Marinkovic, V. Kovacevic, B. Orbovic, S. Lazic, D. Simic (Belgrade and Pristina, RS)
- Routine ECG in asymptomatic subjects might be a clue for early cardiovascular structural and functional abnormalities P1039
A. Sabatini, M. El Shahawy (Florence, IT; Sarasota, FL, US)
- The Impact of testosterone levels on early repolarization patterns observed in healthy Turkish males P1040
B. Hunuk, O. Cagac, C. Coskun, O. Kaya (Istanbul and Antalya, TR)
- The results of the pharmacological treatment in children with chronic sinus tachycardia and focal atrial tachycardia P1041
I. Pushkareva, T. Kruchina, A. Adrianov, O. Gordeev, D. Egorov, O. Laur, P. Savelyev (Saint Petersburg, RU)
- Type D personality and psychopathology in patients with a cardioverter defibrillator P1042
J.J. Sanchez Munoz, C. Godoy Fernandez, S. Alcaraz Andreu, E. Fernandez Ros, M.D. Hidalgo Montesinos, F. Costa Moreno, A. Garcia Alberola (Murcia, ES)
- Implantable cardioverterdefibrillator generator replacement: same benefit for all patients? P1043
M. Madeira, N. Antonio, M. Costa, M. Ventura, J. Cristovao, J. Nascimento, L. Elvas, L. Goncalves, M. Pego (Coimbra, PT)
- Low dose amiodarone should be continued even after successful catheter ablation of ventricular tachycardia in patients with structural heart disease P1044
M. Igarashi, A. Nogami, Y. Sekiguchi, K. Yamao, T. Kajiyama, T. Watanabe, S. Kusa, S. Miyazaki, H. Nakamura, H. Hachiya, K. Aonuma, Y. Iesaka (Tsuchiura and Ibaraki, JP)

- Impact of stroke events in Japanese patients with atrial fibrillation detected by implantable cardioverter defibrillator P1045
M. Nakano, Y. Kondo, M. Nakano, K. Miyazawa, T. Hayashi, Y. Kobayashi (Chiba, JP)
- Electrocardiographic features of Arrhythmogenic Right Ventricular Dysplasia in followup P1046
I. Zemskov, A. Obydennikova, T. Kurylenko, E. Parmon, E. Shlyakto (St.Petersburg, RU)
- Prognosis of cardiac sarcoidosis in Japanese patients with implantable cardioverter defibrillator with versus without other organ involvement P1047
M. Nakano, Y. Kondo, K. Miyazawa, Y. Kobayashi, M. Nakano, T. Hayashi (Chiba, JP)
- Detecting abnormal dynamics of cardiac repolarization during ischemia from surface electrocardiogram by cardiodynamicsgrambased method P1048
M. Deng, L. Shan, M. Tang, C. Wang, B. Zhou (Guangzhou and Beijing, CN)
- ECG characteristics differentiating epicardial outflow tract ventricular arrhythmias originating from the left coronary cusp and the cardiac veins P1049
H. Hachiya, H. Nakamura, M. Igarashi, S. Miyazaki, S. Kusa, T. Kajiyama, K. Yamao, K. Hirao, Y. Iesaka (Tsuchiurashi, Ibarakiken and Tokyo, JP)
- Tpeak to Tend dispersion as a marker for ventricular arrhythmia P1050
H. Matsuda, P. Attanasio, M. Huemer, A.S. Parwani, F. Blaschke, L.H. Boldt, W. Haverkamp, A. Wutzler (Yokohama, JP; Berlin and Bochum, DE)
- P wave morphology during pacing inside pulmonary veins and prevalence of m wave pattern on 12 lead surface ECG. P1051
F. Santoro, C.H. Heeger, P. Zhang, O. Inaba, B. Reissmann, T. Maurer, C. Lemes, J. Riedl, T. Fink, S. Mathew, A. Metzner, K.H. Kuck, F. Ouyang (Hamburg, DE)
- Prognostic value of simple standard 12lead electrocardiographic parameters for predicting clinical outcomes in hospital survivors after acute myocardial infarction P1052
H. J. Cho, J. Y. Yoon, M. H. Bae (Daegu, KR)
- Electrocardiographic analysis in Fabry's disease P1053
G. Fazanaro, H. Maia, R.E.N.A.T.O. David, A. Perez, L. Del Sarto, M.A.R.I.A. Barcelos, J.A.I.R.O. Rocha, R. Miranda, R. Filho, C. Septimio, B.R.A.S.I.L. Caiado (BRASILIA, BR)
- Ventricular tachycardia ablation**
- Antegrade transseptal approach for left ventricular tachyarrhythmia in patients with previous mitral clip implantation P1054
K. Hayashi, C.H. Heeger, A.M. Saguner, S. Mathew, T. Maurer, C. Lemes, J. Riedl, C. Sohns, F. Santoro, B. Reissmann, R.R. Titz, A. Metzner, K.H. Kuck, F. Ouyang (Sapporo, JP; Hamburg, DE)
- The aortic dissection and cardiac tamponade caused by catheter manipulation in the left coronary cusp P1055
K. Kuroki, T. Adachi, D. Hanaoka, R. Ieki, F. Yamagami, T. Machino, H. Yamasaki, D. Xu, N. Murakoshi, Y. Sekiguchi, K. Kuga, A. Nogami, K. Aonuma (Kamisu and Tsukuba, JP)
- Contact force as a predictor of complete lesion formation in patients with ischemic scar-related ventricular tachycardia P1056
I. Elsokkari, J. Sapp, R. Parkash, C. Gray, M. Gardner, A. Abdelwahab (Halifax, CA)
- Relationship between middiastolic activity during ventricular tachycardia and late potentials during sinus rhythm P1057
S. Magnani, F. Calore, C.M. Barbaro, G. D'angelo, C. Bisceglia, P. Vergara, G. Paglino, N. Trevisi, P. Della Bella (Milan, IT)
- Safety of performing radiofrequency catheter ablation and endomyocardial biopsy in the same setting P1058
J. Schleifer, K. Manocha, S. Asirvatham, P. Noseworthy, P. Friedman, M. Madhavan, R. Gulati, T. Munger, L. Cooper, S. Kapa (Rochester and New York, US)

- Survival and predictors of mortality after substrateguided ventricular tachycardia ablation P1059
J. FernandezArmenta Pastor, D. Sotolglesias, F. Bisbal, J. Acosta, D. Penela, M. Fernandez, F. Vassanelli, M. Martinez, M. Cabrera, R. Villuendas, L. Cano, L. Mont, A. Berruezo (Cadiz, Barcelona, Badalona and Seville, ES; Piacenza, IT)
- Predictors of successful catheter ablation of ventricular arrhythmias in pediatric patients: 12 years experience in 532 pediatric patients P1060
S. Termosesov, I. Khamnagadaev, R. Garipov, Y. Volkova, I. Ilich, I. Kovalev, M. Shkolnikova (Moscow, RU)
- Long term PVC ablation success varies by source location P1061
D.E. Krummen, D. Lee, T. Pasek, G. Ho, C. Villongco, G. Feld, A.A. Schrickler, J. Hsu, K.S. Hoffmayer (San Diego, US)
- Remote monitoring**
- Daily home monitoring transmissions reduce heart failure hospitalization in ICD patients: a single center experience. P1062
D. Dugo, S. Ingala, D. Trovato, C. Cardi, F. Platania, V. Calvi (Catania, IT)
- Activation of remote monitoring for cardiac implantable electronic devices: small dog, tall weeds P1063
G. D'ancona, E. Safak, J. Senges, T. Ouarrak, C. Perings, W. Jung, D. Spitzer, L. Eckardt, J. Brachmann, K.H. Seidl, H.U. Hink, H. Ince, J. Ortak (Berlin, Ludwigshafen, Lünen, Villingen Schwenningen, Dresden, Münster, Coburg, Ingolstadt, Frankfurt am Main and Rostock, DE)
- Longterm safety and performance of a novel permanently implanted wireless left atrial pressure monitoring system (VLAP in sheep) P1064
W.T. Abraham, Y. Levi, O. Goldshtein, D. Erdheim, L. Perl (Columbus and Stanford, US; Tel Aviv, IL)
- Home monitoring implantable devices in heart failure patients: economic analysis of our experience. P1065
D. Spaziani, L. Striuli, P. Gancitano, S. Zadorozhnaya, M. D'urbano (Magenta, IT; Saratov, RU)
- Predictors of atrial fibrillation detection in patients with implantable loop recorders for cryptogenic stroke P1066
B. Yeneneh, J. Munro, S. Wilansky, J. Behai, L. Scott (Scottsdale, US)
- AF detection using smartphone apps P1067
N. Karim, M. Aral, S. Eduawor, M. Finlay (London, GB)
- Registries and Surveys**
- Implantable cardioverter defibrillator in ischemic cardiomyopathy: appropriate therapies and mortality in real life P1068
A. Tronconi, N. Galizio, J. Gonzalez, F. Robles, A. Palazzo, G. Carnero, M. Mysuta, C. D Amico, G. Lizarraga, F. Figueroa, H. Fraguas (Buenos Aires, AR)
- Mortality after ICD replacement: 2 years data from the DECODE registry P1069
P. De Filippo, G. Nigro, E. Menardi, Q. Parisi, M. L. Narducci, M. Zoni Berisso, F. Zanon, D. Potenza, M. Iori, V. Zaca', C. Tomasi, M. Bertini, F. Lissoni, M. Malacrida, M. Biffi (Bergamo, Naples, Cuneo, Campobasso, Rome, Genoa Sestri Ponente, Rovigo, San Giovanni Rotondo, Reggio Emilia, Siena, Ravenna, Ferrara, Lodi, milan and Bologna, IT)
- Early results with an ECM envelope for use with cardiac implantable devices P1070
T.F. Deering, S.K. Goyal, S.A. Shah, B.L. Mock Muhammad, B.A. Foley, L. Siddoway (Atlanta, Raleigh, Jackson, MS, Alexander City, AL and York, PA, US)
- Clinical impact of asymptomatic presentation status in patients with paroxysmal and sustained atrial fibrillation: the fushimi af registry. P1071
M. Esato, Y.H. Chun, Y. An, H. Wada, K. Hasegawa, H. Ogawa, M. Abe, M. Akao (Kyoto, JP)

- Strategies for antimicrobial prophylaxis at ICD/CRTD Replacement/Upgrade in current italian clinical practice: Insights from the DECODE Registry P1072
M. Bertini, A. Vado, M.L. Narducci, A. Rago, A. Campana, M. Santamaria, G. Stabile, D. Potenza, D. Saporito, C. La Rosa, C. Baiocchi, V. Carinci, M. Malagu', M. Malacrida, M. Biffi (Ferrara, Cuneo, Rome, Naples, Salerno, Campobasso, San Giovanni Rotondo, Rimini, Taranto, Siena, Bologna and Milan, IT)
- Epidemiology of sudden cardiac death in subsaharan africa: a populationbased cohort survey in cameroon P1073
A. Ngantcha, S. Mbouh, K. Tibarzawa, C. Saka, J. Wa, R. Fonga, A. Bonny (Douala and Yaounde, CM; Dar es Saalam, TZ)
- Managing arrhythmias in africa: the pan african society of cardiology (PASCAR) survey on the use of cardiac electronic devices and electrophysiological procedures from 2011 to 2014 in 31 countries P1074
M. Ngantcha, E. Okello, K. Tibarzawa, R. Houndolo, K. Bundhoo, F. Goma, M. Ouankou, A. Chin, A. Bonny (Douala and Yaounde, CM; kampala, UG; Dar es Saalam, TZ; Dakar, SN; Mauritius, MU; Lusaka, ZM; Cape Town, ZA)
- Scientific documents and Guidelines**
- Risk classification for sudden cardiac death in japanese hypertrophic cardiomyopathy patients with implantable cardioverterdefibrillator in comparison between aha, jcs and esc guideline. P1075
M. Nakano, Y. Kondo, M. Nakano, K. Miyazawa, T. Hayashi, Y. Kobayashi (Chiba, JP)
- Validation of a score to predict the need for permanent pacemaker in the emergency department in patients with atrioventricular blocking drugs. P1076
H. Ferreira, J. B. Augusto, M. Santos, N. Martins, C. Santos, D. Faria, D. Roque, J. Urzal, M. Faustino, N. Cabanelas, F. Madeira, C. Morais (Amadora and Leiria, PT)

41st EWGCCE Meeting - Poster session 2

- Identification of a PEST domain in the inward rectifier channel KIR2.1 involved in protein stability **1077**
M. Qile, Y. Ji, M.J.C. Houtman, F. Romunde, M. Veldhuis, B. Kok, M.A. Vos, M.A.G. Van Der Heyden (Utrecht, NL)
- Correlation between magnitude of cardiac ionic currents and cell membrane capacity: always positive? **1078**
R. Kula, M. Bebarova, J. Simurda, M. Pasek (Brno, CZ)
- A versatile tool for measuring contraction of adult and human pluripotent stem cell derived cardiomyocytes in vitro and cardiac muscle in situ **1079**
L. Sala, B.J. Van Meer, F.L. Burton, L.G.J. Tertoolen, E. Giacomelli, C.D. Koopman, I. ~Mannhardt, M.C. Ribeiro, R. Passier, Members Of The Crackit Inpulse Consortium, J. Bakkers, T. Eschenhagen, M. Bellin, G.L. Smith, C.L. Mummery (Leiden, Utrecht and Twente, NL; Glasgow, GB; Hamburg, DE)
- Hypothermia induced differential effects on cardiac depolarisation and repolarisation in vivo **1080**
E. S. Dietrichs, K. Mcglynn, T. Kondratiev, G. Smith, T. Tveita (Tromsø, NO; Glasgow, GB)
- Introduction of external IK1 expressing HEK293 to human induced pluripotent stem cell derived cardiomyocytes culture **1081**
A. Costa, M.P. Hortigón Vinagre, F.L. Burton, M.A.G. Van Der Heyden, G.L. Smith (Glasgow, GB; Utrecht, NL)
- The role of rapidly and slowly activating components of delayed rectifier K current in the action potential generation in mouse, guinea pig and porcine sinoauricular node. **1082**
V. Golovko, M. Gonotkov (Syktyvkar, RU)
- Heart automaticity in mice lacking pacemaker L type Cav1.3 and T type Cav3.1 channels. **1083**
M. Baudot, P. Mesirca, A.G. Torrente, I. Bidaud, J. Roussel, S. Laaraoui, J. Striessnig, H. S. Shin, J. Nargeot, S. Barrere Lemaire, M.E. Mangoni (Montpellier, FR; Innsbruck, AT; Seoul, KR)
- Pacemaker properties and adrenergic regulation of the rat coronary sinus myocardium **1084**
S.V. Leonidova, K.B. Pustovit, V.S. Kuzmin (Moscow, RU)
- Regulation of hERG cardiac potassium channels by exogenous peptides **1085**
O.A. Malak, Z. EsSalah Lamoureux, G. Loussouarn (Nantes, FR)
- Arterial pH and hemoglobin regardless of amiodarone and emergent intervention is a major determinant for survival on the return of spontaneous circulation of the out of hospital cardiac arrest **1086**
K.W. Kang, H.J. Park, Y.J. Choi (Daejeon and Daejeon, KR)
- New method for determination of tubular membrane capacity in intact cardiomyocytes **1087**
O. Svecova, M. Bebarova, M. Simurdova, J. Simurda (Brno, CZ)
- Acute heat stress effects on heart electrical activity in European sculpin (*Myoxocephalus scorpius*) in vivo and in vitro **1088**
T. S. Filatova, D.V. Abramochkin (Moscow, RU)



Tuesday 20 June 2017

For more information, check the most up to date programme on
The Scientific Programme & Planner
www.escardio.org/EUROPACE

THE PACE

09:00 - 11:00

THE PACE

THE PACE ROOM I

Cardiac Resynchronisation Therapy (CRT) implant and MultiPoint Pacing (MPP) optimization

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): L. Tanghe (Waregem, BE); L. Lehman (Brussels, BE)

This session will allow you to utilize VR to implant quadripolar and learn how to optimize the patient with MPP.

09:00 - 10:00

THE PACE

THE PACE ROOM I

Left atrial appendage occlusion

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): D. Chilvers (Newbury, GB)

This session will allow you to:

- Discuss setting up a center and patient selection.
- Get introduced to the technology of left atrial appendage occlusion.
- Understand the technical components of the procedure through virtual reality.

10:00 - 11:00

THE PACE

THE PACE ROOM I

Left atrial appendage occlusion

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): D. Chilvers (Newbury, GB)

This session will allow you to:

- Discuss setting up a center and patient selection.
- Get introduced to the technology of left atrial appendage occlusion.
- Understand the technical components of the procedure through virtual reality.

11:00 - 12:30

THE PACE

THE PACE ROOM I

SecureSense algorithm

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): M.L. Hendriks (Zaandam, NL)

This session will allow you to:

- Review SecureSense Algorithm
- Learn how review SecureSense EGMs
- Discuss possible programming solutions to overcoming RV oversensing issues

11:00 - 12:00

THE PACE

THE PACE ROOM I

Left atrial appendage occlusion

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): D. Chilvers (Newbury, GB)

This session will allow you to:

- Discuss setting up a center and patient selection.
- Get introduced to the technology of left atrial appendage occlusion.
- Understand the technical components of the procedure through virtual reality.

THE PACE

12:00 - 13:00 THE PACE THE PACE ROOM I

Left atrial appendage occlusion

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): D. Chilvers (Newbury, GB)

This session will allow you to:

- Discuss setting up a center and patient selection.
- Get introduced to the technology of left atrial appendage occlusion.
- Understand the technical components of the procedure through virtual reality.

14:00 - 16:00 THE PACE THE PACE ROOM I

Insertable cardiac monitor

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): L. Tanghe (Waregem, BE); L. Lehman (Brussels, BE); V. Antonakos (Athens, GR)

Get with the guidelines, learn about the clinical evidence, practice an implant, discover the app and how to best educate your patients.

14:00 - 14:30 THE PACE THE PACE ROOM I

30 min to discover transcatheter mitral valve repair therapy

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. Romitelli (Roma, IT)

This session will allow you to:

- Understand how TMVR technology works
- Discuss patient eligibility and therapy value.

15:00 - 15:30 THE PACE THE PACE ROOM I

30 min to discover transcatheter mitral valve repair therapy

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. Romitelli (Roma, IT)

This session will allow you to:

- Understand how TMVR technology works
- Discuss patient eligibility and therapy value.

16:00 - 16:30 THE PACE THE PACE ROOM I

30 min to discover transcatheter mitral valve repair therapy

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): P. Romitelli (Roma, IT)

This session will allow you to:

- Understand how TMVR technology works
- Discuss patient eligibility and therapy value.

17:00 - 18:00 THE PACE THE PACE ROOM I

Electrocardiogram (ECG) corner

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): V. Antonakos (Athens, GR)

Discuss how to use the ECG Corner to help in clinical practice and how to navigate the website.

THE PACE

10:00 - 11:00

THE PACE

THE PACE ROOM 2

The art of personalized pacing: practical cases for therapy optimization

Sponsored by LivaNova

Chairperson(s): J. L. Merino (Madrid, ES); J. Moreno Planas (Madrid, ES)

This educational session will cover two topics linked with pacing personalization

1. AV and VV delay optimization in CRT patients

To overcome the high percentage of non-responders to CRT new solutions exist. The first part of this session will present novel technology using a cardiac contractility sensor for optimizing the AV and VV delays. We will review case reports and a practical demonstration will show how this unique technology can be used in daily practice.

2. AV management for pacemaker patients

Current guidelines recommend the use of AV Management algorithms for pacemaker patients. However, not all of these algorithms are the same in terms of how they manage Long PR. This session will address the question of whether reducing right ventricular pacing should come at the cost of ignoring the risk associated with long PR? We will review current solutions illustrated by practical patient cases.

11:00 - 12:00

THE PACE

THE PACE ROOM 2

Detecting & monitoring sleep apnea to improve Atrial Fibrillation (AF) treatment success

Sponsored by LivaNova

Chairperson(s): P. Defaye (Grenoble, FR); S. Venier (Grenoble, FR)

Severe sleep apnea is highly prevalent in patients with atrial fibrillation. There is a direct impact of this comorbidity on the outcome of AF treatment. How can cardiologists improve management of these patients by earlier detection and closer monitoring of sleep apnea? New tools like Holter-polygraphs and diagnostic features in implantable devices can be used within the cardiology department. This session will cover the practical application of these novel solutions in a multidisciplinary environment with the ultimate aim of increasing the success of AF treatment.

12:45 - 13:30

THE PACE

THE PACE ROOM 2

Sleep apnea matters for cardiologists: time for a wake-up call

Sponsored by LivaNova

Chairperson(s): D. Linz (Adelaide, AU)

Sleep apnea has a direct impact on the cardiovascular system and can be detrimental for patients at risk. Come to this educational session to really "experience" Sleep Apnea and learn more about the deleterious outcomes it has when associated with Atrial Fibrillation or Heart Failure. Get an overview of the existing tools for screening and monitoring Sleep Apnea that are available to cardiologists.

14:30 - 15:00

THE PACE

THE PACE ROOM 2

Lateral Vein Introducer (LVI) system: making the unreachable reachable

Sponsored by LivaNova

Chairperson(s): M. Meine (Utrecht, NL)

This workshop aims to familiarize participants with a combination of tools and techniques that allow implanters to simplify their straightforward CRT cases as well as provide them with advanced options for challenging anatomies. Interventional CRT utilizes interventional cardiology techniques for the implantation of LV leads. This session will cover techniques that utilize an injection system and specially designed tools to facilitate CS cannulation and LV lead placement. Come to this educational session and discover Interventional CRT.

THE PACE

15:00 - 15:30

THE PACE

THE PACE ROOM 2

Advanced Left Ventricular (LV)-lead implant procedures: snare techniques and subclavian venoplasty

Sponsored by LivaNova

Chairperson(s): S. Worley (Earleville, US)

There is an increasing need to add LV leads despite subclavian/ innominate obstruction and tortuous anatomies. Venoplasty, as it is performed by the electrophysiologist, could be a better way to manage lead placement. The objective is to highlight the procedural details, the results and the safety of venoplasty for physicians who manage many implants.

09:00 - 10:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

During this session you will get an overview of:

- CRT patient management.
- New lead, two incision technique and new implant tools.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

09:00 › Managing cardiac resynchronization therapy patients from implant to clinical follow-up. 1089

F. Hlauschka (Wien, AT)

09:00 › S-ICD system evolution. 1090

S. Accinelli (Genova, IT)

09:00 › High definition mapping, signal clarity, innovative portfolio 1091

B. Holmes (Cheshire, GB)

10:00 - 11:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

During this session you will get an overview of:

- CRT patient management with quadripolar leads.
- The two incision technique shown through the technology of 3D projection mapping.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

10:00 › Focus on quadripolar leads: implanting technique and device setting before hospital discharge. 1092

C. Martins (Santiago Da Guarda, PT)

10:00 › S-ICD two-incision technique - 3D projection mapping. 1093

A. M. van Beek (Amsterdam, NL)

10:00 › High definition mapping, signal clarity, innovative portfolio 1094

B. Holmes (Cheshire, GB)

THE PACE

11:00 - 12:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

During this session you will get an overview of:

- Prediction of HF events.
- Two incision technique, intermuscular technique, serratus plane block.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

11:00 › Proactive management of heart failure patients: the next step in preventive technology. 1095

M. SchwarzWagner (Vienna, AT)

11:00 › S-ICD implant evolution: new implant techniques and trends. 1096

S. Accinelli (Genova, IT)

11:00 › High definition mapping, signal clarity, innovative portfolio. 1097

N. Hillier (London, GB)

12:00 - 15:00

THE PACE

THE PACE ROOM 3

Hands-on sessions

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

These small group sessions will give you an overview of Boston Scientific technology on HF, S-ICD evolution, implanting technique, modular combination of S-ICD with leadless pacing, and the impact of high resolution mapping on signal clarity and new technologies for ablation.

12:00 › Heart failure: hands-on sessions. 1098

C. Martins (Santiago Da Guarda, PT)

12:00 › Subcutaneous defibrillator: hands-on sessions. 1099

A. Paschero (Clonmel, IE); A. M. van Beek (Amsterdam, NL); S. Accinelli (Genova, IT); J. Flandorfer (Wien, AT)

12:00 › High definition mapping, signal clarity, innovative portfolio. 1100

N. Hillier (London, GB); M. Alcantara (Altdorf, DE)

15:00 - 16:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

During this session you will get an overview of:

- CRT patient management.
- The two incision technique shown through the technology of 3D projection mapping.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

15:00 › Managing cardiac resynchronization therapy patients from implant to clinical follow-up. 1101

M. Schwarz-Wagner (Wien, AT)

15:00 › S-ICD two-incision technique - 3D projection mapping 1102

A. M. van Beek (Amsterdam, NL)

15:00 › High definition mapping, signal clarity, innovative portfolio. 1103

F. Guerrero (Madrid, ES)

THE PACE

16:00 - 17:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

During this session you will get an overview of:

- CRT patient management with quadripolar leads.
- Modular combination of S-ICD with leadless pacing.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

16:00 › Focus on quadripolar leads: implanting technique and device setting before hospital discharge.

1104

C. Martins (Santiago Da Guarda, PT)

16:00 › Modular solutions for patients implanted with S-ICD: the next frontier of leadless technology.

1105

A. Paschero (Clonmel, IE)

16:00 › High definition mapping, signal clarity, innovative portfolio.

1106

F. Guerrero (Madrid, ES)

17:00 - 18:00

THE PACE

THE PACE ROOM 3

Innovative technologies for heart failure, sudden death prevention, and ablation

Sponsored by Boston Scientific

Chairperson(s): M. Mirigian (Carrick-On-Suir, IE)

During this session you will get an overview of:

- Prediction of HF events.
- Modular combination of S-ICD with leadless pacing.
- The impact of high resolution mapping on signal clarity and new technologies for ablation.

17:00 › Proactive management of heart failure patients: the next step in preventive technology.

1101

E. M. Avila Mayor (Madrid, ES)

17:00 › Modular solutions for patients implanted with S-ICD: the next frontier of leadless technology.

1102

M. Laarakker (Nieuwegein, NL)

17:00 › High definition mapping, signal clarity, innovative portfolio.

1103

F. Guerrero (Madrid, ES)

09:00 - 18:00

THE PACE

THE PACE ROOM 4

Learn more about our innovations

Sponsored by Abbott (St. Jude Medical is now Abbott)

09:00 - 10:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

THE PACE

10:00 - 11:00

THE PACE

THE PACE ROOM 5

Voice of the expert: «how to increase the efficiency in high density mapping»

Sponsored by Biosense Webster

To learn about the high density mapping tools that may lead to faster and better identification of the tachycardia mechanisms and therefore improve the procedure outcomes. This session will be highly interactive with Q&A sessions

11:00 - 12:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

12:45 - 13:45

THE PACE

THE PACE ROOM 5

Voice of the expert: « a novel way of mapping complex tachycardias»

Sponsored by Biosense Webster

To learn about a new concept of mapping tachycardias that may lead to better outcomes. This session will be highly interactive with Q&A sessions.

14:00 - 15:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

15:00 - 16:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

16:00 - 17:00

THE PACE

THE PACE ROOM 5

Practical workshop: «how to use the latest mapping and ablation technologies»

Sponsored by Biosense Webster

To learn how to best use the latest tools to improve the efficiency, safety and the outcomes of the ablation procedures.

MORNING SESSIONS

08:30 - 10:00 HOW TO SESSION THE PACE ROOM 6

How to manage advanced technologies for patients with implantable devices ?

Organised by Boston Scientific

Chairperson(s): M. Laarakker (Nieuwegein, NL)

08:30 › SMART features for CRT optimization at implant and follow-up. **1110**

F. Hlauschka (Wien, AT)

09:00 › Managing patients implanted with Subcutaneous Defibrillators. **1111**

J. Flandorfer (Wien, AT)

09:30 › The most advanced combination of sensors for detecting heart failure exacerbation. **1112**

M. Schwarz-Wagner (Wien, AT)

08:30 - 10:00 MAIN SESSION SOKOLOV

How to improve the benefits of CRT?

Chairperson(s): S. M. Rafla (Alexandria, EG); M. Gwechenberger (Wien, AT)

08:30 › By use of MRI for selection of candidates. **1113**

F. Leyva (Birmingham, GB)

08:48 › By AV and VV intervals optimisation. **1114**

D. Francis (London, GB)

09:06 › By multisite or multipoint pacing. **1115**

F. Anselme (Rouen, FR)

09:24 › By endocardial LV pacing. **1116**

H. Burri (Geneva, CH)

09:42 › By extending device longevity. **1117**

G. Boriani (Castenaso (Bo), IT)

08:30 - 10:00 SPECIAL SESSION SENNING

LIVE SESSION I : Focus on AF ablation

Chairperson(s): H. Puererfellner (Linz, AT); H. J. G. M. Crijns (Maastricht, NL)

08:30 › Live Case from Linz:AT post AF ablation **1118**

C. Meyer (Hamburg, DE)

09:00 › Live Case from Leipzig:AF ablation. **1119**

A. Bollmann (Leipzig, DE)

09:30 › New technologies for AF ablation. **1120**

V. Reddy (New York, US)



08:30 - 10:00

SYMPOSIUM

WENCKEBACH

SVT ablation: from the rare to the difficult: a case based tutorial



Mobile App Interactive session.

Chairperson(s): R. Schilling (London, GB); B. Schaeffer (Hamburg, DE)

To learn about differential pacing and maneuvers for diagnosis rare SVt and to hear about the pitfalls. Since some of These substrates are infrequent, learning from the experienced ones is very important.

08:31 › Ablation of PJRT and MahaimFibers: still a challenge. 1121

J. M. Almendral Garrote (Madrid, ES)

09:00 › When ablation of AVNRT becomes difficult: This is what you need to know. 1122

P. Geelen (Aalst, BE)

09:30 › Paraseptal pathways: tips and tricks how to avoid AVblock. 1123

M. Stuehlinger (Innsbruck, AT)

08:30 - 10:00

SYMPOSIUM

MOBITZ

Left atrial appendage occlusion: state of the art 2017

Chairperson(s): G. Patti (Roma, IT); R. Rosso (Tel Aviv, IL)

Learn how experts approach the occlusion of the left atrial appendage to prevent stroke in non-valvular atrial fibrillation with emphasis on the pros and cons of the different technologies available in 2017

08:52 › Endocardial left atrial appendage occlusion is as effective as warfarin to prevent ischemic stroke. 1124

T.L. Lewalter (Munich, DE)

08:30 › Endocardial left atrial appendage occlusion is not as effective as warfarin to prevent ischemic stroke. 1125

H. Heidbuchel (Antwerp, BE)

09:15 › Surgical approaches preventing stroke. 1126

M. La Meir (Brussels, BE)

09:37 › Lariat suture delivery device: not only for stroke prevention. 1127

R. Lee (San Francisco, US)

08:30 - 10:00

SPECIAL SESSION

MIROWSKI

Innovations for better patient care: reports from the EHRA Innovation Forum



Chairperson(s): F. W. Prinzen (Maastricht, NL); M. Eldar (RamatGan, IL)

08:30 › The near future potential of genetics. 1128

D.O. Arnar (Reykjavik, IS)

08:52 › The near future developments in pharmacological therapies. 1129

M. Michel (Ingelheim, DE)

09:15 › The near future of precision medicine. 1130

P. Kirchhof (Birmingham, GB)

09:37 › The near future applications of computer modeling. 1131

J. Lumens (Maastricht, NL)

08:30 - 10:00 SYMPOSIUM FURMAN

Device programming for pacing in special scenarios and populations

Chairperson(s): M. Haim (Beer Sheva, IL); M. Tomaino (Bolzano, IT)

08:30 › Neuromuscular diseases. I 132

V. Russo (Casoria, IT)

08:52 › When is pacing indicated in hypertrophic CMP? I 133

C. Linde (Stockholm, SE)

09:15 › Pacing in 1st degree AV Block. I 134

W.K. Shen (Phoenix, US)

09:37 › Pacing in patients with unexplained syncope. I 135

M. Brignole (Lavagna, IT)

08:30 - 10:00 SYMPOSIUM COUMEL

Anticoagulation for non-valvular atrial fibrillation in 2017

Joint session with the Heart Rhythm Society (HRS)



Chairperson(s): G. Breithardt (Munster, DE); T. Deering (Atlanta, US)

Review of contemporaneous data on novel oral anticoagulation and its clinical implications for the treatment of patients with atrial fibrillation.

08:30 › What is the correct definition of “nonvalvular” atrial fibrillation? I 136

S. Potpara (Belgrade, RS)

08:52 › Permanent atrial fibrillation with CHADSVASC score= 1: nothing, aspirin or anticoagulate? I 137

A. Niessner (Vienna, AT)

09:15 › Anticoagulant should be prescribed for Atrial fibrillation in stage IV-V kidney disease. I 138

M. Chelu (Salt Lake City, US)

09:37 › Anticoagulant should NOT be prescribed for Atrial fibrillation in stage IV-V kidney disease. I 139

To be announced

08:30 - 10:00 SYMPOSIUM HIS

New technologies for prolonged ECG monitoring: how, when and for whom?

Chairperson(s): S. Lobodzinski (Long Beach, US); R. Sheldon (Calgary, CA)

Discuss the different new methodologies of prolonged ECG monitoring and their clinical indications.

08:30 › Multiday and multiweek ECG recording systems. I 140

E. T. Locati (Milano, IT)

08:52 › Implantable Loop recorders. I 141

A. Moya I Mitjans (Barcelona, ES)

09:15 › Mobile phone ECG applications and wearables. I 142

P. Guzik (Poznan, PL)

09:37 › Novel characteristic of ECG morphology for arrhythmia prediction. I 143

M. Malik (Purley, GB)

MORNING SESSIONS

08:30 - 10:00 SYMPOSIUM DAMATO

Medical treatment of channelopathies: effective and safe?

Chairperson(s): G. Hessling (Munich, DE); K. E. Odening (Freiburg, DE)

Update on drug therapy for medical prevention of VF in channelopathies.

08:30 › Quinidine for Brugada and what to do with Quinidine intolerance. 1144

W. Shimizu (Tokyo, JP)

08:52 › Ranolazine for LQT3: s treatment that found it's disease? 1145

S. Viskin (Tel Aviv, IL)

09:15 › Betablockers for LQT3: Contraindicated, acceptable or the drug of choice? 1146

A. A. M. Wilde (Amsterdam, NL)

09:37 › LQT3 – the role of Ajmaline challenge and of Flecainide and mexiletine in treatment. 1147

P. J. Schwartz (Milan, IT)

08:30 - 10:00 MAIN SESSION ELMQUIST

Hypertrophic cardiomyopathy genetics and clinical management

Chairperson(s): E. Behr (London, GB); L. Di Biase (New York, US)

This session will outline the impact of the major discoveries of genetics and how to use these information for a better clinical practice. The sessions is directed to a general audience.

08:30 › Diagnostic and prognostic role of genotyping in HCM. 1148

P. Charron (Paris, FR)

08:52 › Risk stratification of HCM in 2017: the European approach. 1149

P. M. Elliott (London, GB)

09:15 › Atrial fibrillation and outcome in HCM: the American vs. European approach to risk stratification 1150

E. Arbustini (Pavia, IT)

09:37 › Ablation in HCM. 1151

L. Di Biase (New York, US)

08:30 - 10:00 RAPID FIRE ABSTRACT AGORA

Rapid Fire session 5 - Catheter ablation: tools and technologies

Chairperson(s): K. J. Chun (Frankfurt, DE); N. Rueb (Tubingen, DE)

Update on drug therapy for medical prevention of VF in channelopathies.

08:30 › Second generation cryoballoon ablation in paroxysmal atrial fibrillation patients: 24 month safety and efficacy from the STOPAF post approval study 1152

B.P. Knight, P.G. Novak, R. Sangrigoli, J. Champagne, M. Dubuc, S.W. Adler, J.T. Svinarich, V. Essebag, R.B. Hokanson, F. Kueffer, S.K. Jain, R.M. John, M. Mansour (Chicago, Doylestown, St. Paul, Denver, Mounds View, Pittsburgh and Boston, US; Victoria, Quebec and Montreal, CA)

08:40 › Esophageal thermal injury with contact force radiofrequency and cryoballoon ablation for atrial fibrillation 1153

N. Akoum, J. Ho, S. Rane, B. Woodbury, B. Smith, S. Mangene (Seattle, US)

08:50 › Clinical validation of automatic local activation time annotation during idiopathic ventricular tachycardia ablation procedures 1154

J. Acosta Martinez, D. Sotolglesias, M. Frutos Lopez, B. Jauregui Garrido, E. Arana Rueda, A. Pedrote, A. Berruezo (Seville and Barcelona, ES)

08:30 - 10:00

RAPID FIRE ABSTRACT (CONTINUED)

AGORA

Rapid Fire session 5 - Catheter ablation: tools and technologies

- 09:00 › Assessment of transmuralty during lesion formation with electrograms 1155
A. Porta Sanchez, S. Haldar, K. Magtibay, S. Masse, M. Kusha, M.A. Azam, J. Asta, P.F.H. Lai, D.C. Deno, K. Nanthakumar (Toronto, CA; Minneapolis, US)
- 09:10 › Early feasibility results evaluating a multielectrode radiofrequency ablation balloon catheter system in patients with symptomatic paroxysmal atrial fibrillation 1156
I. Crozier, M.G. Daly, A. Al Ahmad, A. Natale, A. Ebner, P. Neuzil, R. Lee, N. Badhwar, B.K. Lee, I. Melton, V. Reddy (Christchurch, NZ; Austin, San Francisco and New York, US; Asuncion, PY; Prague, CZ)
- 09:20 › Sequential ultrahigh density contact mapping shows increase of left atrial organization during persistent atrial fibrillation ablation 1157
D.G. Latcu, A. Amourha, B. Enache, S.S. Bun, T. Delassi, G. Garret, N. Saoudi (Monaco, MC)
- 09:30 › Unipolar and bipolar RF ablation: the impact of tip load, RF duration, power and indifferent electrode size on transmuralty of the lesion. 1158
A. Baszko, W. Telec, P. Kalmucki, K. Kochman, S. Ozegowski, T. Siminiak, A. Szyszka (Poznan, PL)
- 09:40 › Electrical isolation by electroporation of right ventricular myocardium in an ex vivo beating porcine heart: a potential novel use of the alert internal cardioversion catheter 1159
G. O. Furniss, I. Rankin, G.A. Haywood (Plymouth and Manchester, GB)
- 09:50 › Early experience with ablation index-guided pulmonary vein isolation compared with forctime integral-guided ablation using surround flow catheter tip irrigation for ablation of atrial fibrillation 1160
V. Weberndoerfer, S. Toggweiler, T. Schefer, I. Russi, M. Brinkert, R. Kobza (Lucerne, CH)

10:00 - 11:00

MODERATED POSTERS

POSTER AREA

Moderated Poster session 5 - Treatment strategies and ablation outcome

- Chairperson(s): M. Grecu (Iasi, RO); H. J. G. M. Crijns (Maastricht, NL)**
- Efficacy of non-vitamin k antagonist oral anticoagulants for perioperative complication in patients with atrial fibrillation undergoing catheter ablation. 1161
T. Iseda, K. Hiroshima, M. Nagashima, J. Morita, S. Tohoku, K. Ando, K. Ando (Kitakyushu, JP)
- Predictors of serious complications during and immediately after catheter ablation of atrial fibrillation in 8302 procedures: J-CARAF Study 1162
Y. Murakawa, T. Yamane, K. Inoue, S. Naito, K. Kumagai, Y. Miyauchi, N. Morita, A. Nogami, M. Shoda, K. Okumura, M. Goya, K. Hirao (Kawasaki, Tokyo, Osaka, Maebashi, Fukuoka, Hachioji, Tsukuba and Kumamoto, JP)
- Is the transesophageal echocardiography mandatory in patients undergoing atrial fibrillation ablation with uninterrupted novel anticoagulants? 1163
A. Shapieva, A. Tsyganov, E. Lyan, S. Fedulova, S. Mironovich, E. Fetisova, M. Chaykovskaya, A. Dzeranova, A. Karshieva, V. Sandrikov (Moscow and Saint Petersburg, RU)
- Early recurrence and longterm results of additional ganglionated plexi ablation for paroxysmal atrial fibrillation 1164
S. Mito, Y. Muraoka, Y. Fujii, Y. Ueda, Y. Morita, M. Fujiwara, Y. Nagamoto, Y. Hayashi (Hiroshima, JP)
- The incidence of complications in the setting of second-generation cryoballoon ablation of atrial fibrillation: a comparison between vitamin K antagonists and novel oral anticoagulants 1165
G. Mugnai, C. De Asmundis, S. Iacopino, E. Stroker, M. Longobardi, V. De Regibus, H.E. Coutino Moreno, K. Takarada, R. Choudhury, J.P. Abugattas De Torres, C. Storti, P. Brugada, G.B. Chierchia (Pavia and Cotignola, IT; Brussels, BE)
- Long-term outcomes of supraventricular tachycardia ablation in congenital heart disease: single centre uk experience 1166
V. Sawhney, A. McLellan, D. Perera, D. Izquierdo, D. Babra, R.J. Schilling, P. Lambiase, V. Ezzat, M. Lowe (London, GB)

Long-term outcomes after catheter ablation of ventricular tachycardia in patients with structural heart disease: a Multicentre UK Study 1168

A. Breitenstein, V. Sawhney, S. Honarbakhsh, R. Providencia, A. Chow, K. Rajappan, M. Kalla, M. Cassar, M. Hall, I.P. Temple, S. Bartoletti, S. Panikker, A. Kontogeorgis, T. Wong, R.J. Hunter (London, Oxford and Liverpool, GB)

Contact force ablation catheters do not significantly reduce the rate of adenosine and spontaneous pulmonary vein reconnection in patients undergoing ablation for atrial fibrillation 1169

M. Brunelli, T. Baldauf, L. VitaliSerdos, D. Bastian, S. Ngoli, Y. Doroshenko, J. Walaschek, H. Schmidt, H. Rittger, J.C. Geller (Magdeburg, Fürth and Bad Berka, DE)

Ablation of atrial fibrillation: does age matters? 1170

C. Arantes, N. CortezDias, G. Lima Da Silva, J. Agostinho, I.S. Goncalves, T. Guimaraes, S. Cota, S. Neto, C. Barreiros, L. Carpinteiro, F. Pinto, J. Sousa (BRAGA and Lisboa, PT)

10:15 - 10:45 SATELLITE SYMPOSIUM - EXPERTS ON THE SPOT AGORA

PV connection - Substrate in the left atrium: how to explain continuing high recurrence rates after apparently successful AF ablation?

Sponsored by Boston Scientific

Chairperson(s): W. Ullah (Hornchurch, GB); C. Jilek (Starnberg, DE)

Atrial Fibrillation (AF) ablation and recurrences after apparently successful first procedure: added value of high resolution mapping to identify Pulmonary Vein (PV) connections. Crosstalk between Dr. Ullah and Dr. Jilek.

10:15 › PV connections Substrate in the left atrium: how to explain continuing high recurrence rates after apparently successful AF ablation? 1171

W. Ullah (Hornchurch, GB); C. Jilek (Starnberg, DE)

11:00 - 12:30 HOW TO SESSION THE PACE ROOM 6

How to manage patients with a pacemaker, an ICD, or a CRT device?

Sponsored by BIOTRONIK

Chairperson(s): T. Brueggemann (Berlin, DE)

11:00 › Pacemaker Features, Troubleshooting, and Quiz. 1172

D. Mannaplakel (Berlin, DE)

11:30 › ICD Features, Troubleshooting, and Quiz. 1173

T. Brueggemann (Berlin, DE)

12:00 › CRT Features, Troubleshooting, and Quiz. 1174

D. Muo' (Berlin, DE)

11:00 - 12:30 DEBATE SESSION SOKOLOV

Strenuous fights on CRT

Chairperson(s): J. C. Nielsen (Aarhus N, DK); E. Occhetta (Novara, IT)

11:00 › Cardiac resynchronization therapy in the next years: CRT-P will be the preferred device. 1175

M. R. Cowie (London, GB)

11:22 › Cardiac resynchronization therapy in the next years: CRTD will be the preferred device. 1176

A. Auricchio (Lugano, CH)

11:45 › Only LBBB is eligible to CRT. 1177

I. Goldenberg (Ramat Gan, IL)

12:07 › Improving the criteria of candidacy for CRT: Wide QRS only for eligibility to CRT. 1178

V. Delgado (Leiden, NL)

11:00 - 12:30 SPECIAL SESSION SENNING

LIVE SESSION II : MRI interventional suites and MRI-guided ablation



Chairperson(s): **G. Hindricks (Leipzig, DE); N. Marrouche (Salt Lake City, US)**

Atrial Fibrillation (AF) ablation and recurrences after apparently successful first procedure: added value of high resolution mapping to identify Pulmonary Vein (PV) connections. Crosstalk between Dr. Ullah and Dr. Jilek.

11:00 › Live Case from Leipzig: MRI interventional suites: catheter ablation in the MRI. 1179

P. Sommer (Leipzig, DE)

11:30 › Live Case from Leipzig: VT ablation guided by MRI-based channel detection 1179

A. Berruezo Sanchez (Barcelona, ES)

12:00 › Lecture: MRI applications in arrhythmia patients. 1181

R.M. Manka (Zurich, CH)

12:15 › Lecture: MRI applications in AF patients. 1182

N. Marrouche (Salt Lake City, US)

11:00 - 12:30 HOW-TO SESSION WENCKEBACH

Ablation of atrial macroreentrant tachycardia: tips and tricks

Chairperson(s): **T. J. R. De Potter (Aalst, BE); E. Arbelo (Barcelona, ES)**

Learn the different anatomical barriers and the various strategies for typical, atypical and scar related atrial flutter

11:00 › What to know about atrial anatomy for atrial flutter ablation. 1183

J.A. Cabrera (Madrid (Pozuelo), ES)

11:22 › How to ablate scarrelated flutter after cardiac surgery. 1184

To be announced

11:45 › How to prove reentry circuits and ablate post-PVI macroreentrants. 1185

S. Knecht (Brugge, BE)

12:07 › Ablation of postMaze arrhythmias. 1186

D. Luria (Jerusalem, IL)

11:00 - 12:30 SYMPOSIUM MOBITZ

Approach to atrial fibrillation patients: highlights from Central-Eastern Europe

Special session of the Eastern European group

Chairperson(s): **G. Milasinovic (Belgrade, RS); I. Karpenko (Odessa, UA)**

11:00 › Radiofrequency ablation with with 3D electroanatomical mapping in pts with atrial fibrillation, 1187

why and when is always my first approach: clinical recommendations.

A. Romanov (Novosibirsk, RU)

11:22 › Vein isolation by cryoballoon: how to read electrical signals from pulmonary veins? 1188

Z. Csanadi (Debrecen, HU)

11:45 › Atrial fibrillation in patients with ICD/CRTD: therapy issues and programming recommendations. 1189

A. Lubinski (Lodz, PL)

12:07 › ICD for prevention of SCD: lessons learned from ICD for life initiative. 1190

J. Kautzner (Prague, CZ)

MORNING SESSIONS

11:00 - 12:30 SPECIAL SESSION MIROWSKI

Crash course for inventors

Chairperson(s): **A. Metzner (Hamburg, DE); G. Rackauskas (Vilnius, LT)**



11:00 › From professor to professional in inventing.

1191

R. Lee (San Francisco, US)

11:18 › Strategical thinking for inventors.

1192

S. Asirvatham (Rochester, US)

11:36 › How to get your innovation to be taken seriously.

1193

N.W. F. Linton (London, GB)

11:54 › From concept to certification of an ablation catheter.

1194

K. U. Markus (Eschweiler, DE)

12:12 › Is my invention worth pursuing? A beginners guide.

1195

Z. Malchano (Stanford, US)

11:00 - 12:30 MAIN SESSION FURMAN

Leadless Pacemaker: the future of cardiac pacing?

Chairperson(s): **J.C. Deharo (Marseille, FR); M. Lunati (Milano, IT)**

11:00 › Where do we stand: update on clinical trials and registries.

1196

N. Clementy (Tours, FR)

11:22 › Who are the ideal candidates for current Leadless Pacemaker technology?

1197

C.W. Israel (Bielefeld, DE)

11:45 › Implantation Techniques: tips and avoiding common complications.

1198

C. Steinwender (Linz, AT)

12:07 › From VVI to DDD and CRT: what's in the pipeline of leadless pacing?

1199

P. Neuzil (Praha, CZ)

11:00 - 12:30 SYMPOSIUM COUMEL

State of the art on anticoagulation

Chairperson(s): **A. Raviele (Mestre, IT); I. C. Van Gelder (Groningen, NL)**

State of the art review of the use of anticoagulation by leading experts.

11:00 › Choosing the right anticoagulant for the right patient.

1200

G.Y. H. Lip (Birmingham, GB)

11:22 › Using longterm ECG monitor to start and stop anticoagulation.

1201

J. Healey (Hamilton, CA)

11:45 › Antidotes to anticoagulation: state of the art.

1202

W.J. Comuth (Herning, DK)

12:07 › Choosing the anticoagulant as part of triple therapy.

1203

A. Rubboli (Bologna, IT)

MORNING SESSIONS

11:00 - 12:30 SYMPOSIUM HIS

12-lead ECG: diagnostic and prognostic value

Chairperson(s): **A. J. Bayes De Luna (Barcelona, ES); K. Jubele (Riga, LV)**

Review of contemporaneous data on the diagnostic and prognostic use of the electrocardiogram.

- 11:00 › The ECG in Brugada syndrome: predicting VF. 1204
L. Calo' (Marino, IT)
- 11:22 › The ECG in AV block: predicting torsade de pointes. 1205
R. Rosso (Tel Aviv, IL)
- 11:45 › Short QT: predicting (or guessing?) VF. 1206
A. Mazzanti (Pavia, IT)
- 12:07 › ECG before and after TAVI: predicting AV block. 1207
S. Toggweiler (Lucerne, CH)

11:00 - 12:30 SYMPOSIUM DAMATO

Pharmacological therapy in AF

Chairperson(s): **To be announced; P. Avraamides (Nicosia, CY)**

Update on drug genotype specific therapy with focus on LQT3.

- 11:00 › The current role of Dronedarone. 1208
S. H. Hohnloser (Frankfurt, DE)
- 11:22 › Ranolazine – mechanism and clinical results in AF. 1209
To be announced
- 11:45 › Atrialspecific antiarrhythmic agents. 1210
S. Nattel (Montreal, CA)
- 12:07 › Non anti arrhythmic pharmacological therapy for maintenance of sinus rhythm. 1211
I. Savelieva (London, GB)

11:00 - 12:30 SYMPOSIUM ELMQUIST

Back to nature? The rise of biologicals to replace catheters, drugs and devices in antiarrhythmic therapy

Chairperson(s): **P.G.A. Volders (Maastricht, NL); B. Rodriguez (Oxford, GB)**

In this session, a panel of transnational scientists will try to shed light on the future of molecular approaches for the treatment of cardiac arrhythmia

- 11:00 › The biopacemaker Ready for application in humans? 1212
G.J.J. Boink (Amsterdam, NL)
- 11:22 › Biological ablation of atrial and ventricular arrhythmias. 1213
C. Napolitano (Pavia, IT)
- 11:45 › Decyphering arrhythmia mechanisms using human iPSC-derived cardiomyocytes. 1214
D. Sinnecker (Muenchen, DE)
- 12:07 › Electrically active antibodies: emerging roles in pathophysiology and antiarrhythmic therapy. 1215
J. Li (Bern, CH)

11:00 - 12:30

RAPID FIRE ABSTRACT

AGORA

Rapid Fire session 6 - Mechanisms and strategies for catheter ablation

Chairperson(s): M. O'neill (London, GB); L. Di Biase (New York, US)

- 11:00 › Zerofluoroscopy catheter ablation for treatment of atrial fibrillation 1216
M. Jan, B. Antolic, T. Prolic Kalinsek (Ljubljana, SI)
- 11:10 › Longterm outcomes of catheter ablation of monomorphic ventricular tachycardia in repaired tetralogy of Fallot 1217
M. Laredo, R. Frank, X. Waintraub, E. Gandjbakhch, L. Iserin, S. Hascoet, C. Himbert, Y. Gallais, F. HiddenLucet, G. Duthoit (Paris and Le Plessis Robinson, FR)
- 11:20 › Targeting the hidden substrate unmasked by right ventricular extrastimulation improves ventricular tachycardia ablation outcome after myocardial infarction 1218
M. De Riva, Y. Naruse, M. Watanabe, A.P. Wijnmaalen, J. Venlet, A.F. Androulakis, C. Brouwer, M.J. Schalij, K. Zeppenfeld (Leiden, NL)
- 11:30 › Comparison of procedural endpoints for ablation of postmyocardial infarction ventricular tachycardia 1219
M. Wolf, T. Kitamura, F. Sacher, H. Cochet, K. Vlachos, G. Cheniti, A. Frontera, M. Takigawa, R. Martin, N. Thompson, N. Derval, A. Denis, M. Hocini, M. Haissaguerre, P. Jais (BordeauxPessac, FR)
- 11:40 › Electroanatomical voltage mapping validated by full human heart histology in nonischemic cardiomyopathy 1220
C.A. Glashan, A. F. Androulakis, Q. Tao, R. N. Glashan, S. R. Piers, L. J. Wisse, K. Zeppenfeld (Leiden, NL; San Francisco, US)
- 11:50 › Imagebased criteria to identify the presence of epicardial arrhythmic substrate in patients with transmural myocardial infarction 1221
D. Sotolglesias, J. Acosta, M. Cabrera, M. Martinez, F. Vassanelli, M. Linhart, D. Penela, J. FernandezArmenta, L. Mont, A. Berruezo (Barcelona, ES)

LUNCHTIME SESSIONS

12:45 - 13:45

SATELLITE SYMPOSIUM

WENCKEBACH

Latest developments in Cardiac Resynchronization Therapy (CRT)

Sponsored by Medtronic

Chairperson(s): M. Glikson (Ramat Gan, IL); N. Clementy (Tours, FR)

Learn how new technologies and device algorithms may lead to an improved CRT response.

Learn how a monitoring and triaging center improves response time to important clinical events, reduces hospital resources and could lead to better patient outcome.

- 12:45 › Introduction - Latest developments in CRT. I225
M. Glikson (Ramat Gan, IL)
- 12:50 › Effective algorithms to improve CRT response. I226
M. Meine (Utrecht, NL)
- 13:05 › Quadripolar left ventricular leads: from passive to active fixation. I227
A. Kloppe (Bochum, DE)
- 13:20 › A monitoring and triaging center: what are the benefits for CRT patients? I228
G. Giannola (Palermo, IT)
- 13:35 › Conclusions - Latest developments in CRT. I229
N. Clementy (Tours, FR)

12:45 - 13:45

SATELLITE SYMPOSIUM

MOBITZ

New therapy opportunities thanks to advanced mapping capabilities - What does the real world's data tell us ?

Sponsored by Boston Scientific

Chairperson(s): S. Willems (Hamburg, DE); S. Ernst (London, GB)

During this session you will get an overview of:

1. Ablation strategies in 2017.
2. Scar Identification, Quantification and Characterization in Complex Atrial Tachycardias (CAT).
3. «Difficult to identify» Pulmonary Vein (PV) connections can explain continuing high recurrence rates after Atrial Fibrillation (AF) ablation.
4. «Targeted ablation» of Ventricular Tachycardia (VT) circuits with better understanding of isthmus anatomy and conduction characteristics.

- 12:45 › Mapping @ 2017 - Rethinking ablation strategies. I230
S. Willems (Hamburg, DE)
- 12:50 › Scar identification, quantification and characterization in complex atrial tachycardias - A path to targeted ablation? I231
D.G. Lactu (Monaco, MC)
- 13:06 › Do «difficult to identify» pulmonary vein connections explain continuing high recurrence rates after atrial fibrillation ablation? I232
J. I. Garcia-Bolao (Pamplona, ES)
- 13:22 › Is it feasible to offer «targeted ablation» of ventricular tachycardia circuits with better understanding of isthmus anatomy and conduction characteristics? I233
F. Sacher (Pessac, FR)
- 13:38 › Are we working towards more personalized ablation strategies? I234
S. Ernst (London, GB)

LUNCHTIME SESSIONS

12:45 - 13:45

SATELLITE SYMPOSIUM

COUMEL

Innovations in Mapping Complex Arrhythmias (MCA) - Persistent Atrial Fibrillation (AF) to Ventricular Tachycardia (VT)

Sponsored by Abbott (St. Jude Medical is now Abbott)

Chairperson(s): G. Hindricks (Leipzig, DE); J. Kautzner (Prague, CZ)

New tools and techniques enable physicians to tackle complex ablations such as persistent AF and VT. During this session experts will share their approaches and best practices of using innovative technologies during complex ablations.

12:45 › Welcome and introduction. 1235

G. Hindricks (Leipzig, DE); J. Kautzner (Prague, CZ)

12:50 › Approach for mapping and ablation in persistent AF patients. 1236

K. Rajappan (Oxford, GB)

13:10 › The learning curve of VT ablation. 1237

B. Pierre (Tours, FR)

13:25 › VT mapping: an assessment of high density mapping and substrate analysis. 1238

C. Bisceglia (Milan, IT)

13:40 › Conclusion and closing remarks. 1239

G. Hindricks (Leipzig, DE); J. Kautzner (Prague, CZ)

12:45 - 13:45

SATELLITE SYMPOSIUM

HIS

What is the state of the art in sudden cardiac death prevention?

Sponsored by ZOLL

Chairperson(s): G. L. Botto (Como, IT); D. Scherr (Graz, AT)

This program will include discussion of the recent data from the PROLONG and DANISH trials and will discuss the implications of these data in clinical practice. The faculty will also discuss the utility of patient management monitoring systems to effect better outcomes. Case reports will also be shared in order to show patient treatment pathways in practice.

12:45 › Introduction - What is the state of the art in sudden cardiac death prevention? 1240

G. L. Botto (Como, IT)

12:50 › What do the actual data mean to the electrophysiologists? 1241

T. Deneke (Bad Neustadt, DE)

13:05 › Utility of remotely managed patient clinical and diagnostic markers to effect better outcomes. 1242

J. Steffel (Zurich, CH)

13:20 › Patient treatment pathways. 1243

S. Boveda (Toulouse, FR)

13:35 › Panel discussion and summary. 1244

D. Scherr (Graz, AT)

12:45 - 13:45

SATELLITE SYMPOSIUM

ELMQUIST

Clinical decision making in electrophysiology / Arrhythmias

Sponsored by EPIC Alliance / BIOTRONIK

Chairperson(s): C. Linde (Stockholm, SE); J. Poole (Seattle, US)

The session will foster the clinical decision making process for MRI in patients with Cardiac Implantable Electronic Devices in an interactive format allowing for discussion and audience participation.

12:45 › Cardiac Magnetic Resonance Imaging (MRI) to determine Left Ventricular (LV) lead positioning, worth the effort? **1245**

L. Vitali Serdoz (Nuremberg, DE); E. Hoffmann (Munich, DE)

13:00 › Extracting abandoned leads: is need for an MRI scan a good enough reason? **1246**

M. G. Bongiorni (Pisa, IT); U. Birgersdotter-Green (La Jolla, US)

13:15 › How do we manage our patients with non-MRI conditional devices? **1247**

M. Gleva (St. Louis, US); A. Schade (Erfurt, DE)

13:30 › MRI scanning: establishing a practical and safe system in your hospital. **1248**

A. Russo (Moorestown, US); J. Poole (Seattle, US)

AFTERNOON SESSIONS

14:00 - 15:30 HOW-TO SESSION THE PACE ROOM 6

New clinical evidences and daily programming of implantable cardiac devices/memory interpretation

Organised by LivaNova

Chairperson(s): C. Deniaud (Clamart, FR)

- 14:00 › AV conduction management with SafeR: diagnostic data and programming. 1249
A. Amblard (Le Plessis Robinson, FR)
- 14:22 › Sleep Apnea screening and monitoring in Cardiology. 1250
S. Pradere (Le Plessis Robinson, FR)
- 14:45 › Improving AV and VV automatic optimization using the SonR contractility sensor. Programming and interpretation of the memories. 1251
S. Thareau (Gloucester, UK)
- 15:07 › Practical cases at patient follow-up. 1252
C. Deniaud (Clamart, FR)

14:00 - 15:30 MAIN SESSION SOKOLOV

CRT implants: nightmares in the lab

Chairperson(s): A. Curnis (Brescia, IT); C. A. Rinaldi (London, GB)

- 14:00 › Impossible coronary sinus cannulation and coronary sinus dissection: what to do? 1253
S. Worley (Earleville, US)
- 14:18 › Indication and technical aspects of epicardial LV Implantation. 1254
A. Romanov (Novosibirsk, RU)
- 14:36 › Left persistent superior vena cava: what to do? 1255
To be announced
- 14:54 › Instability of the LV lead and phrenic nerve stimulation : what to do? 1256
F. Gadler (Stockholm, SE)

14:00 - 15:30 SPECIAL SESSION SENNING

LIVE SESSION III : Focus on VT ablation

Chairperson(s): C. de Chillou (Vandoeuvre Les Nancy, FR); M. Glikson (Ramat Gan, IL)



- 14:00 › Live Case from Linz: High density mapping for ablation of post MIVT. 1257
P. Della Bella (Milan, IT)
- 14:30 › Live Case from Leipzig: Epi-endocardial mapping and ablation of VT in NICM. 1258
A.A. Arya (Leipzig, DE)
- 15:00 › New techniques and technologies for VT ablation. 1259
M. Saba (New Malden, GB)
- 15:29 › Discussion panel. 1260
J. Atie (Rio De Janeiro, BR); F. Arribas (Madrid, ES)

AFTERNOON SESSIONS

14:00 - 15:30 HOW-TO SESSION WENCKEBACH

Hybrid ablation in persistent atrial fibrillation: the ultimate heart team approach

Chairperson(s): M. Borggreffe (Mannheim, DE); L. Mont (Barcelona, ES)

To make Young fellow acquainted with the fundamental of EP. Especially for those who do only the Basic VT this session should be extremely helpful

- 14:00 › The world of entrainment: a must for everyone. 1261
A. Moya I Mitjans (Barcelona, ES)
- 14:22 › Stimulation manoeuvres for differentiation between SVTs. 1262
S. Asirvatham (Rochester, US)
- 14:45 › Stimulation manoeuvres for differentiation of SVT from VT. 1263
D. Shah (Geneva, CH)
- 15:07 › Differential pacing and other modes to prove conduction block: how does it work? 1264
P. Jais (Bordeaux, FR)

14:00 - 15:30 SYMPOSIUM MOBITZ

Hybrid ablation in persistent atrial fibrillation: the ultimate heart team approach

Joint Session with Chinese Society of EP 

Chairperson(s): D. Huang (Chengdu, CN); M. La Meir (Brussels, BE)

To introduce and discuss surgical and interventional Treatment of AF as a staged procedure to improve outcomes in AF

- 14:00 › Pathophysiological aspects of persistent atrial fibrillation relevant to ablation. 1265
M. Chen (Nanjing, CN)
- 14:22 › Evolution of surgical ablation of atrial fibrillation. 1266
M. La Meir (Brussels, BE)
- 14:45 › Rationale for a hybrid surgical and catheter ablation approach for persistent AF. 1263
H. He (Renmin, CN)
- 15:07 › Long-term outcome in hybrid ablation of atrial fibrillation. 1268
P. Brugada Terradellas (Brussels, BE)

14:00 - 15:30 SPECIAL SESSION MIROWSKI

Finals of EHRA inventors award and Cardiostim innovators award

Chairperson(s): F. W. Prinzen (Maastricht, NL); A. Lazarus (Neuilly Sur Seine, FR) 

- 14:00 › EHRA Inventor Award: Guide CRT. 1269
J. M. Behar (London, GB)
- 14:10 › EHRA Inventor Award: Tailor-CRT: optimising AV-delay for LV-pacing using electrogram signals 1270
E. B. Engels (Maastricht, NL)
- 14:20 › EHRA Inventor Award: KINO-cardiograph. 1271
P.F. Migeotte (Bruxelles, BE)
- 14:30 › Finalist I Cardiostim Innovation Award. 1272
To be announced

AFTERNOON SESSIONS

14:00 - 15:30

SPECIAL SESSION (CONTINUED)

MIROWSKI

Finals of EHRA inventors award and Cardiostim innovators award



- 14:40 › Finalist 2 Cardiostim Innovation Award. 1273
To be announced
- 14:50 › Finalist 3 Cardiostim Innovation Award. 1274
To be announced
- 15:00 › The long and winding road of an invention: the LINQ-reveal story. 1275
B. Lee (Mounds View, US)
- 15:10 › Presentation of EHRA inventors award. 1276
F.W. Prinzen (Maastricht, NL)
- 15:20 › Presentation of cardiostim innovation award. 1277
A. Lazarus (Neuilly Sur Seine, FR)
- 15:29 › Referees Panel discussion. 1278
*H. Heidbuchel (Antwerp, BE); G. Hindricks (Leipzig, DE);
A. Lazarus (Neuilly Sur Seine, FR); M. O'neill (London, GB)*

14:00 - 15:30

SYMPOSIUM

FURMAN

CIEDs after cardiac procedures

- Joint session with the European Association of Percutaneous Cardiovascular Interventions (EAPCI)**
- Chairperson(s): F. Weidinger (Vienna, AT); S. Windecker (Bern, CH)**
- 14:00 › Predictors and timing of pacemaker implantation after surgical valvular procedures. 1279
A. Oto (Ankara, TR)
- 14:22 › CIEDs following tricuspid surgical procedures. 1280
R.P. Martins (Rennes, FR)
- 14:45 › Pacing after TAVI: the interventional view point. 1281
S. Stortecky (Bern, CH)
- 15:07 › Pacing after TAVR: the electrophysiologist view point. 1282
R. Beinart (Israel, IL)

14:00 - 15:30

SYMPOSIUM

COUMEL

Stroke and bleeding in atrial fibrillation: difficult management issues

- Chairperson(s): F.X. Roithinger (Moedling, AT); I. Savelieva (London, GB)**
- 14:00 › Acute bleeding in an AF patient on NOAC: how to use reversal agents appropriately? 1283
I. Savelieva (London, GB)
- 14:22 › Anticoagulation after catheter ablation: is stopping anticoagulation really a good idea in CADsVASc >2? 1284
H. Calkins (Baltimore, US)
- 14:45 › Acute ischaemic stroke in AF patient on a NOAC: Thrombolysis, thrombectomy or pray? And what to do next ? 1285
H.P. Haring (Linz, AT)
- 15:07 › High CHADsVASc and NO AF: any indication for anticoagulation? 1286
S. Potpara (Belgrade, RS)

AFTERNOON SESSIONS

14:00 - 15:30 HOW-TO SESSION HIS

Electrocardiogram, Holter recordings and remote monitoring for preventing malignant ventricular arrhythmias

Chairperson(s): P.J. Schwartz (Milan, IT); D. BurkartKuettner (Wien, AT)

A practical session on "how to" optimize electrocardiography to detect and prevent ventricular arrhythmias.

14:00 › How to detect and prevent drug induced long QT syndrome. 1287

To be announced

14:30 › How to detect and prevent drug induced Brugada syndrome. 1288

P.G. Postema (Amsterdam, NL)

15:00 › How to perform a QT study for new drugs. 1289

M. Malik (Purley, GB)

14:00 - 15:30 SYMPOSIUM DAMATO

Is it worth the money? Costeffectiveness in electrophysiology

Chairperson(s): A. J. Camm (London, GB); J. Singh (Boston, US)

To explore the cost effectiveness of atrial fibrillation ablation accross Europe

To identify targets in commissioning and reimbursement that may facilitate an uniform practice in Europe

14:00 › Comparative costeffectiveness of atrial fibrillation ablation versus pharmacological therapy. 1290

J.C. Caldwell (Hull, GB)

14:22 › Patient compliance and outcomes of pharmacological therapy and atrial fibrillation ablation. 1291

S. Saksena (Warren, US)

14:45 › Commissioning and reimbursement of atrial fibrillation ablation in Europe. 1292

F. Braunschweig (Stockholm, SE)

15:07 › The role of the ESC Health Policy: relevance to electrophysiology and cardiac device practice. 1293

P.E.Vardas (Heraklion, GR)

14:00 - 15:30 MAIN SESSION ELMQUIST

Late sodium current and cardiac arrhythmias: a basic and translational update

Chairperson(s): G. L. Smith (Glasgow, GB); M. Gomez (ChatenayMalabry, FR)

This translational session deals with the new advancements in the use od late sodium current inhibitors in the treatment of cardiac arrhythmias

14:00 › Molecular and biophysical mechanisms underlying late sodium current. 1294

To be announced

14:22 › Late sodium current and atrial fibrillation. 1295

J. R. Ehrlich (Frankfurt, DE)

14:45 › Late sodium current and arrhythmogenesis during heart failure. 1296

E. Cerbai (Florence, IT)

15:07 › Pharmacological late INa inhibition in inherited arrhythmias. 1297

C.A. Remme (Amsterdam Z0, NL)

14:00 - 15:30

RAPID FIRE ABSTRACT

AGORA

Rapid Fire session 9 - Electrocardiography and ecardiology

Chairperson(s): S. Kaab (Munich, DE); G. Krstacic (Zagreb, HR)

- 14:00 › Incidence rate and its prognostic implication of serious arrhythmia in patients with acute myocarditis 1298
M. H. Bae, H.J. Cho, J.Y. Yoon, N.K. Kim (Daegu, KR)
- 14:10 › Late gadolinium enhancement was associated with fragmented QRS of inferior ECG leads, which could predict ventricular arrhythmia in patients with dilated cardiomyopathy 1299
J. Park (Seoul, KR)
- 14:20 › Sudden cardiac death in patients with end stage renal disease on hemodialysis and the serial change of ECG. Multicenter prospective study could predict ventricular arrhythmia in patients with dilated cardiomyopathy 1300
J. Park (Seoul, KR)
- 14:30 › Prognostic value of J (Osborne) waves on ECG tracing during mild therapeutic hypothermia in survivors after out of hospital cardiac arrest (JOW trial) 1301
A. Feldman, N.A. Freedberg, D. Antonelli, E. Rosner, Y. Turgeman (Afula, IL)
- 14:40 › Are cardiologists the better coroners? in survivors after out of hospital cardiac arrest (JOW trial) 1302
P. Lacour, M. Huemer, A. S. Parwani, L.H. Boldt, P. Attanasio, B. Pieske, W. Haverkamp, C. Buschmann, F. Blaschke (Berlin, DE)
- 14:50 › 12-lead ECG algorithm to differentiate between ARVC and cardiac sarcoidosis 1303
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)
- 15:00 › Coexistence of atrial and ventricular tachyarrhythmias in patients with tetralogy of fallot 1304
E. M. J. P. Mouws, A.J.J.C. Bogers, N.M.S. De Groot (Rotterdam, NL)
- 15:10 › Heart Rate Variability by mobile app 'ELITE HRV' is not the same as computed from an ECG 1305
P. Guzik, C. Piekos, N. Fenech, O. Pierog, T. Krauze, J. Piskorski, A. Wykretowicz (Poznan and Zielona Gora, PL)
- 15:20 › Fast simulation of standard 12-lead ECG and 3d ventricular activation 1306
S. Pezzuto, P. Kalavsky, M. Potse, F.W. Prinzen, A. Auricchio, R. Krause (Lugano, CH; Bratislava, SK; Talence, FR; Maastricht, NL)

15:30 - 16:30

MODERATED POSTERS

POSTER AREA

Moderated Poster session 6 - Atrial fibrillation mechanisms and atrial fibrillation surgery

Chairperson(s): M. La Meir (Brussels, BE); H. M. Zeljko (Warrington, GB)

- Thorascopic ligation of the left atrial appendage in patients with atrial fibrillation who are at high risk of stroke using the atriclip ligation system 1307
K.R. Nilsson, C.D. Morris, K.R.N. Pohlel, S. Everett, B. Holland, J.R. Murrow, C.P. Murrah (Augusta and Atlanta, US)
- Coagulation cascade as a central pathway for electroanatomical remodeling in atrial fibrillation: a pilot proteomics study 1308
J. Kornej, P. Buettner, E. Hammer, B. Engelmann, D. Husser, K. Schumacher, G. Hindricks, U. Voelker, A. Bollmann (Leipzig and Greifswald, DE)
- Dipole density versus voltagebased mapping in AF: what can be uncovered? 1309
A. Verma, S. Willems (Newmarket, CA; Hamburg, DE)
- Electrophysiological findings after surgical treatment of atrial fibrillation using minimally invasive epicardial RF ablation 1310
A. Bulava, A. Mokracek, M. Eisenberger, J. Hanis, V. Kurfirist (Ceske Budejovice, CZ)

AFTERNOON SESSIONS

15:30 - 16:30

MODERATED POSTERS (**CONTINUED**)

MODERATED POSTER

Moderated Poster session 6 - Atrial fibrillation mechanisms and atrial fibrillation surgery

- Rotational drivers for persistent atrial fibrillation identified in the same location by independent mapping approaches **1311**
T. Baykaner, M. Alhousseini, G. Meckler, A.J. Rogers, F. Shenasa, C. Kowalewski, M. Tamboli, D.E. Krummen, P. Zei, D. Vidmar, W.J. Rappel, S.M. Narayan (Stanford and San Diego, US)
- Detection of atrial fibrillation in patients with permanent pacemakers **1312**
Y. Sazonova, M.V. Serova, D.A. Andreev, I.V. Samoilenko (Moscow, RU)
- The length but not the number of late-enhanced gadolinium MRI gaps were associated with increased risk of recurrences of atrial fibrillation (AF) after pulmonary vein isolation in paroxysmal AF **1313**
M. Linhart, E.M. Benito, F. Alarcon, A. Carlosena, F. Chipa, J. Cozzari, J.M. Tolosana, E. Arbelo, E. Guasch, A. Berruezo, J.L. Mont (Barcelona, ES)
- Endothelial progenitor cells and apoptotic endothelial cell-derived microparticle ratio predicts atrial fibrillation in chronic heart failure **1314**
A. E. Berezin, A. Kremzer (Zaporozhye, UA)
- Effectiveness of a reactive atrial antitachycardia pacing feature in patients with ICDs: A large database analysis **1315**
G. Boriani, S.L. Zweibel, L. Padeletti, H. Hudnall, Y.X. Zhang, G.H. Crossley (Modena, IT; Hartford, Mounds View and Nashville, US)
- Local left atrial conduction velocity and rate-dependent slowing and its relationship with bipolar voltage and drivers in atrial tachycardia and fibrillation **1316**
S. Honarbakhsh, W. Ullah, E. Keating, G. Dhillon, M. Finlay, M.J. Earley, R.J. Schilling, R.J. Hunter (London, GB)

15:35 - 16:25

SPECIAL EVENT

ELMQUIST

EHRA General Assembly



Chairperson(s): To be announced

15:35 › Welcome address.

G. Hindricks (Leipzig, DE)

15:41 › EHRA activities' report.

H. Heidbuchel (Antwerp, BE)

15:47 › Financial update.

K. Zeppenfeld (Leiden, NL)

15:43 › Changes in the Constitution & vote.

G. Hindricks (Leipzig, DE)

16:00 › Parting salutation of EHRA 2015-2017 Board Chairs.

G. Hindricks (Leipzig, DE)

16:06 › Election results of the new EHRA Board 2017-2018.

A. Auricchio (Lugano, CH)

16:12 › Words of the new EHRA 2017-2018 President.

A. J. Camm (London, GB)

16:18 › Questions & answers



AFTERNOON SESSIONS

16:30 - 18:00 HOW-TO SESSION THE PACE ROOM 6

Relevance of a 3D mapping system for AF ablation

Organised by Abbott

Chairperson(s): R. Schoenbauer (Vienna, AT)

16:30 › Patient Preparation, Sedation and Patient Follow Up in patients undergoing AF ablation.

A. Nahler (Linz, AT)

17:00 › Devices in the EP lab – Hints and Pitfalls for AF Ablation.

M. Lassnig (Plesching, AT)

17:30 › Relevance of a 3D mapping system for AF ablation.

R. Schoenbauer (Vienna, AT)

1317

16:30 - 18:00 MAIN SESSION SOKOLOV

CRT: widening of the QRS or widening of the indications?

Joint Session with the Heart Failure Association of the ESC (HFA)



Chairperson(s): F. Ruschitzka (Zurich, CH); B. Merkely (Budapest, HU)

16:30 › CRT in NYHA IV: never? sometimes?

C. Leclercq (Rennes, FR)

1318

16:52 › CRT in patients with valvular heart disease: when? what results?

R. Hatala (Bratislava, SK)

1319

17:15 › CRT in diastolic dysfunction: never? sometimes?

B. Pieske (Berlin, DE)

1320

17:37 › CRT in special situation NYHA I / at first detection of heart failure.

K. Dickstein (Stavanger, NO)

1321

16:30 - 18:00 SYMPOSIUM SENNING

Practical management approaches of female patients with challenging arrhythmias



Mobile App Interactive Session.

Chairperson(s): R. Ter Bekke (Maastricht, NL); S. Ouali (Tunis, TN)

Females are underrepresented in clinical studies. In some conditions there are specific issues related to different hormonal or body constitution. Leading female experts discuss their management adjustments in these conditions.

16:31 › My practical approach to treatment of female patients with Brugada syndrome.

A. Mazzanti (Pavia, IT)

1322

16:52 › My practical approach to catheter ablation of atrial fibrillation in female patients.

C. Herrera Siklody (Ilfeld, DE)

1323

17:15 › My practical approach of PM/ICD implantation in female patients.

U. BirgersdotterGreen (La Jolla, US)

1324

17:37 › My practical approach of lead extraction in female patients.

M. G. Bongiorni (Pisa, IT)

1325

AFTERNOON SESSIONS

16:30 - 18:00

SYMPOSIUM

WENCKEBACH

Burning issues in catheter ablation in 2017

Chairperson(s): S. Riahi (Aalborg, DK); A. Sarkozy (Edegem, BE)

To learn about indication, Radiation exposure, Ablation Tools in detail

16:30 › How to reduce or eliminate radiation exposure.

I326

T. J. R. De Potter (Aalst, BE)

16:52 › Cryoablation or radiofrequency: what is best for AVNRT and paraseptal pathways?

I327

C. Sticherling (Basel, CH)

17:15 › Ablation of asymptomatic accessory pathways: is it really necessary?

I328

C. Pappone (San Donato Milanese, IT)

17:37 › Is there any role for typical isthmus flutter ablation without PVI?

I329

A. Natale (Austin, US)

16:30 - 18:00

DEBATE SESSION

MOBITZ

Controversies in Afib ablation

[Mobile App Interactive Session.](#)



Chairperson(s): L. Mont (Barcelona, ES); J. Kautzner (Prague, CZ)

To learn about the pros and cons of cryoablation and RF ablation in atrial fibrillation

16:31 › Cryoablation should be first choice in persistent atrial fibrillation - PRO.

I330

E. Hoffmann (Munich, DE)

16:52 › Cryoablation should be first choice in persistent atrial fibrillation - CONTRA.

I331

D. Gupta (Liverpool, GB)

16:30 - 18:00

SPECIAL SESSION

MIROWSKI

Innovation Parade

Chairperson(s): F. W. Prinzen (Maastricht, NL); M.C. Finlay (London, GB)



16:30 › How to achieve quick and durable pulmonary vein isolation using remote magnetic navigation

I334

T. SziliTorok (Rotterdam, NL)

16:41 › Apama Irrigated Multi Electrode RF Balloon Ablation System

I335

K.H. Kuck (Hamburg, DE)

16:52 › CardioFocus - HeartLight Endoscopic Ablation.

I336

B. Barrett (Marlborough, US)

17:03 › EBR Systems Second generation wireless pacemaker.

I337

A. Shute (London, GB)

17:15 › A dedicated solution for superior transseptal access

I338

J.P. Urbanski (Mississauga, CA)

17:26 › The NewPace implantable subcutaneous string defibrillator (ISSDTM) - Concept and first-in-man results

I339

G. Strommer (Caesarea, IL)

AFTERNOON SESSIONS

16:30 - 18:00 SPECIAL SESSION (CONTINUED) MIROWSKI

Innovation Parade 

- 17:37 › EPD - Real time tissue characterization during ablation I 340
Y. Schwartz (Haifa, IL)
- 17:48 › RealView - Holographic cardiac imaging. I 341
E. Bruckheimer (ZichronYaakov, IL)

16:30 - 18:00 MAIN SESSION FURMAN

Syncope management: now and future

- Chairperson(s): W.K. Shen (Phoenix, US); M. Brignole (Lavagna, IT)**
- 16:30 › Recurrent vasovagal syncope: pacemaker revisited. I 342
R. Sutton (Monte Carlo, MC)
 - 16:52 › Who should be admitted to hospital: risk stratification and syncope management unit. I 343
H. Koller (Linz, AT)
 - 17:15 › Recent advances in ambulatory hemodynamic and rhythm monitoring. I 344
F. Lombardi (Milan, IT)
 - 17:37 › Syncope: who is fit to drive? I 345
R. Sheldon (Calgary, CA)

16:30 - 18:00 SYMPOSIUM COUMEL

Cancer therapy and arrhythmias

- Chairperson(s): S. H. Hohnloser (Frankfurt, DE); N.M.S. de Groot (Beinsdorp, NL)**
Up-date on arrhythmia monitoring devices for the detection and treatment of out-of-hospital cardiac arrest.
- 16:30 › Highlights of ESC position paper on cardiooncology. I 346
M. L. Moonen (Liege, BE)
 - 16:52 › Arrhythmias induced by Chemotherapy and biological treatment. I 347
A. B. Curtis (Buffalo, US)
 - 17:15 › Radiotherapy and the heart. I 348
T. Lopez Fernandez (Madrid, ES)
 - 17:37 › Anticoagulation in patients with blood dyscrasias and advanced cancer. I 349
C. Eitel (Luebeck, DE)

16:30 - 18:00 SYMPOSIUM HIS

Arrhythmic substrate characterisation in the ventricles 

- Joint session with the European Association of Cardiovascular Imaging (EACVI) Incollaboration with the ESC Working Group on eCardiology**
- Chairperson(s): B. A. Popescu (Bucharest, RO); V. Delgado (Leiden, NL)**
What are the roles of new electrocardiographic and deformation imaging and modelling technologies for arrhythmic risk prediction and treatment in patients with ventricular arrhythmia.
- 16:30 › Non-invasive electrocardiographic imaging for arrhythmic substrate mapping. I 350
M. Hocini (Pessac, FR)

AFTERNOON SESSIONS

16:30 - 18:00 SYMPOSIUM (CONTINUED) HIS

Arrhythmic substrate characterisation in the ventricles

- 16:52 › Myocardial deformation imaging for arrhythmic substrate mapping. **I351**
E. Donal (Rennes, FR)
- 17:15 › Simulationbased differentiation between electrical and structural substrates of arrhythmogenic right ventricular cardiomyopathy. **I352**
J. Lumens (Maastricht, NL)
- 17:37 › Exerciseinduced damage to the right ventricle: the role of MRI. **I353**
S. E. Petersen (London, GB)

16:30 - 18:00 SYMPOSIUM DAMATO

Improving efficacy in the EP lab: work flow, process optimisation and economical balance

Chairperson(s): A. Proclemer (Udine, IT); R. Schilling (London, GB)

*To explore whether centralisation of cardiac hardware purchasing is cost-effective
 To explore whether it also allows for clinician's choice of therapy*

- 16:30 › The value of improved work flow: process optimization medicine. **I354**
G. Trojandt (Leipzig, DE)
- 16:52 › Understanding economics in EP: benchmarks, costs and reimbursement. **I355**
C. Elsner (Luebeck, DE)
- 17:15 › A view from the Industry. **I356**
To be announced
- 17:37 › Cost impact and cost-effectiveness of ablation and device therapy compared to other medical therapies. **I357**
F. Leyva (Birmingham, GB)

16:30 - 18:00 DEBATE SESSION ELMQUIST

Data and evidence in ICD and CRT patients: what's the value?

Chairperson(s): M. Lunati (Milano, IT); V. Ardashev (Moscow, RU)

*To explore whether subanalyses of randomized, controlled trials yield sound scientific evidence
 To determine whether guidelines based on subanalyses are being applied in clinical practice*

- 16:30 › Subanalyses in CRT: should they be trusted? PRO. **I358**
F. Zannad (Vandoeuvre Les Nancy, FR)
- 16:52 › Subanalyses in CRT: should they be trusted ? CONTRA. **I359**
I. Goldenberg (Ramat Gan, IL)
- 17:15 › It is time to reassess current ICD indications by controlled studies PRO. **I358**
N. Dagues (Leipzig, DE)
- 17:37 › It is time to reassess current ICD indications by controlled studies CONTRA. **I359**
S. Levy (Marseille, FR)

16:30 - 18:00

RAPID FIRE ABSTRACT

AGORA

Rapid Fire session 4 Catheterablation of atrial fibrillation: Predictors and outcome

Chairperson(s): **D. Shah (Geneva, CH); P. Sanchez Borque (Madrid, ES)**

- 16:30 › Surveillance of AF recurrence post AF ablation using implantable cardiac monitor: 3 year follow up I360
J. Ip, M. Vigar, D. Grimes, Y. Xie, D. Gandhi, J. Cheng (East Lansing, US)
- 16:40 › Does zero atrial fibrillation burden after atrial fibrillation ablation mean that patients are free of symptoms? I361
A. Bjorkenheim, A. Brandes, A. Magnuson, A. Chemnitz, L. Svedberg, N. Edvardsson, D. Poci (Örebro, Örebro and Göteborg, SE; Odense, DK)
- 16:50 › Prospective use of ablation index targets improves clinical outcomes following ablation for atrial fibrillation I362
A. Hussein, M. Das, V. Chaturvedi, I. Asfour, M. Morgan, C. Ronayne, M. Shaw, R. ~Snowdon, D. Gupta (Liverpool and Newcastle upon Tyne, GB)
- 17:00 › Incidence of major complications during electrophysiological studies and ablation procedures I363
S. Herczeg, N. Szegedi, T. Tahin, V.K. Nagy, P. Abraham, I. Osztheimer, B. Merkely, G. ~Szeplaki, L. Geller (Budapest, HU)
- 17:10 › LGE-MRI atrial fibrosis predicts 5 year outcome of atrial fibrillation ablation I364
M. G. Chelu, J.B. King, E.G. Kholmovski, J. Ma, P. Gal, G. Kaur, M.A. Silver, K.A. ~Johnson, P. Suksaranjit, B.D. Wilson, F.T. Han, E. Arif, N.F. Marrouche (Salt Lake City and Aurora, US; Zwolle, NL)
- 17:20 › Which patients develop recurrent atrial tachycardia but not atrial fibrillation after catheter ablation for atrial fibrillation? I365
Y.A. Park, T.H. Kim, B. Joung, M.H. Lee, H.N. Pak (Seoul, KR)
- 17:30 › Comparison of radiofrequency catheter ablation for paroxysmal atrial fibrillation between patients with and without sick sinus syndrome: Insights from Kansai Plus Atrial Fibrillation (KPAF) registry I366
I. Morishima, H. Tsuboi, Y. Morita, K. Takagi, R. Yoshida, Y. Kanzaki, H. Nagai, Y. Ikai, K. ~Furui, N. Yoshioka, A. Kobori, K. Kaitani, K. Inoue, T. Kurotobi, S. Shizuta (Ogaki, Kobe, Tenri, Osaka and Kyoto, JP)
- 17:40 › Acquired pulmonary vein stenosis after radiofrequency ablation: is surgical repair an option? I367
K. Schoene, A. Arya, M. Kostelka, F.W. Mohr, M. Misfeld, G. Hindricks, P. Sommer, J. ~Seeburger (Leipzig, DE)
- 17:50 › Can catheter ablation treat atrial fibrillation in adults with congenital heart disease? Lessons learned from more than 10 years following a sequential ablation approach I367
C. Sohns, J.H. Nuernberg, J.H. Siebels, K.H. Langes, R. Ventura, G. Buchwalsky, C. Heuser, A. Asche, A. Wegg, W. Duckeck, J.H. Hebe, M. Volkmer (Bremen, DE)

Poster Session 3

Atrial Fibrillation Clinical and epidemiological aspects

- Anticoagulant use and associated outcomes in patients with atrial fibrillation and advanced kidney disease PI 369
P. Noseworthy, X. Yao, N. Tangri, N.D. Shah, K.A. Nath (Rochester, US; Winnipeg, CA)
- Age and gender differences in stroke and bleeding risks in atrial fibrillation patients treated with non-vitamin K antagonist oral anticoagulants PI 370
P. Noseworthy, X. Yao, L.R. Sangaralingham, N.D. Shah (Rochester, US)
- The impact of age on the effectiveness and safety of the NOACs versus warfarin for stroke prevention in atrial fibrillation PI 371
P. Noseworthy, X. Yao, N.D. Shah (Rochester, US)
- Prognostic impact of persistent atrial fibrillation in heart failure patients with preserved ejection fraction a prospective observational study PI 372
R. Schoenbauer, F. Duca, A.A. Kammerlander, S. Aschauer, C. Binder, C. Zotter-Tufaro, M. Koschutnik, L. Fiedler, F.X. Roithinger, D. Bondermann, J. Mascherbauer (Wiener Neustadt and Vienna, AT)
- Left atrial appendage and atrial fibrillation: Is there any good or only bad and ugly? PI 373
S. Chatzikyriakou, E. Silva Garcia, P. Geelen, T. De Potter (Aalst, BE)
- Atrial fibrillation and physical function decline in an Italian elderly population: the InCHIANTI Study experience PI 374
S. Fumagalli, V. Del Panta, S. Bandinelli, S. Pupo, I. Giannini, N. Marchionni, L. Ferrucci (Florence, IT; Baltimore, US)
- Real life experience in anticoagulation management after left atrial appendage closure PI 375
P. Jacon, S. Venier, A. Tabane, F. Dugenet, N. Dayal, P. Defaye (Grenoble, FR)
- Impact of frequency and change of exercise on risk of atrial fibrillation PI 376
S.H. Lee, B.S. Kim, B.J. Kim, K.C. Sung (Seoul, KR)
- The effects of sinus rhythm restoration on physical performance of elderly patients with persistent atrial fibrillation. Does it matter? PI 377
S. Fumagalli, S. Pupo, A. Scardia, I. Giannini, S. Boni, M. Migliorini, C. Fumagalli, M. Di Bari, T. Potpara, N. Dagnes, L. Padeletti, N. Marchionni (Florence, IT; Belgrade, RS; Leipzig, DE)
- Cardioembolic and non-cardioembolic risk factors for ischemic stroke in patients with non-valvular atrial fibrillation PI 378
P.S. Yang, T.H. Kim, J.S. Uhm, B. Jung, M.H. Lee, H.N. Pak (Seoul, KR)
- Atrial fibrillation, bone marrow density and the risk of fracture in patients with osteoporosis PI 379
P.S. Yang, T.H. Kim, J.S. Uhm, J.Y. Kim, H.N. Pak, B. Jung, M.H. Lee (Seoul, KR)
- Gender differences in the progression of atrial fibrillation in lowrisk paroxysmal AF patients with hypertension: the role of left ventricular hypertrophy PI 380
O. Erkuner, R. Nieuwlaat, A.J. Camm, A. Capucci, J.Y. Le Heuzey, G.Y. Lip, H.J.G.M. Crijns, J.G.L.M. Lermans (Maastricht, NL; Hamilton, CA; London and Birmingham, GB; Ancona, IT; Paris, FR)
- Incidence of atrial fibrillation detection in patients with an implantable loop recorder; implications for investigating patients with unexplained ischaemic stroke PI 381
P.A. Chousou, R. Bellanti, K. Sanders, S. Houghton, M.R.D. Belham, P.J. Pugh (Cambridge, GB)
- Age dependent patient characteristics and outcome of 2nd and 3rd generation cryoballoon AF ablation: large center experience PI 382
S. Hartl, U. Dorwarth, F. Straube, M. Wankerl, J. Krieg, B. Bunz, E. Hoffmann (Munich, DE)

- OCULUS study: threedimensional movie as a new weapon against poor compliance P 1383
S. Borodzicz, P. Balsam, K. Malesa, D. Puchta, L. Koltowski, M. Peller, M. Grabowski, G. Opolski (Warsaw, PL)
- Pr interval prolongation as intermediate phenotype for atrial fibrillation: association with left atrial diameter, troponin t und ntprobnp (the lifeadultstudy) P1384
S. Zeynalova, J. Kornej, M. Loeffler, S. Tautenhahn, S. Stoebe, C.H. Engel, J. Thiery, K. Wirkner, R. Burkhardt, R. Baber, D. Husser, A. Hagendorff (Leipzig, DE)
- Atrial Fibrillation Mechanisms**
- Effective atrial conducting size does not predict human AF vulnerability P1385
S. Williams, L. O'neill, C. Sohns, A. Metzner, B. Reissmann, J. Whitaker, R. Mukherjee, J. Harrison, M. Wright, S. Niederer, M. O'neill (London, GB; Hamburg, DE)
- Typical atrial flutter circuit characterization using ultrahigh density mapping P1386
S.S. Bun, D.G. Latcu, T. Delassi, A. Al Amoura, B. Enache, N. Saoudi (Monaco, MC; Troyes, FR)
- Development of an independent approach to detect electrical rotors in atrial fibrillation based on the phase mapping of the electrograms P1387
M. Valinoti, R. Mantovan, S. Severi, C. Corsi (Bologna and Cesena, IT)
- Characteristics of left atrial remodelling in patients with atrial fibrillation and hypertrophic cardiomyopathy in comparison to patients without hypertrophy. P1388
S. Nedios, B. Dinov, N. Dages, N. Sommer, M. Doering, S. Richter, A. Arya, A. Bollmann, G. Hindricks, A. Muessigbrodt (Leipzig, DE)
- Role of FDGPET/CT in patients with atrial fibrillation P1389
M. Miyauchi, Y. Miyauchi, Y. Miyatake, S. Yasuda (Tokyo and Chiba, JP)
- The effects of valvular heart disease on atrial conduction during sinus rhythm P1390
L. Van Der Does, E.A.H. Lanfers, C.P. Teuwen, A. Yaksh, E.M.J.P. Mouws, P. Knops, C. Kik, A.J.J.C. Bogers, N.M.S. De Groot (Rotterdam, NL)
- Atrial Fibrillation Catheter ablation**
- Creation of firm lines made by left atrial voltage map and pace and ablate after atrial fibrillation ablation decreased recurrence of atrial fibrillation in persistent atrial fibrillation patients P1391
N. Watanabe, Y. Nakamura, K. Ogawa, K. Inokuchi, A. Ochi, M. Oonuma, H. Ito, T. Onuki, Y. Minoura, T. Adachi, M. Kawamura, Y. Kobayashi (Tokyo, JP)
- Effects of minimally interrupted direct oral anticoagulants on the intensity of anticoagulation during atrial fibrillation ablation; A singlecenter retrospective study. P1392
M. Mizobuchi, Y. Ito, M. Tanaka, A. Funatsu, T. Kobayashi, S. Nakamura (Kyoto, JP)
- Pattern and timing of coronary sinus activation in complex atrial tachycardia. P1393
M. Wolf, M. Takigawa, N. Derval, K. Vlachos, T. Kitamura, A. Frontera, G. Cheniti, R. Martin, N. Thompson, A. Denis, T. Pambrun, F. Sacher, M. Haissaguerre, P. Jais, M. Hocini (BordeauxPessac, FR; Antwerp, BE)
- Early and delayed alteration of local atrial electrograms around single radiofrequency ablation lesion in pulmonary vein ostium P1394
S. Havranek, H.A. Alfredova, Z.F. Fingrova, V.B. Bulkova, T.B. Boucek, L.S. Souckova, D.W. Wichterle (Prague, CZ)

- Role of PVAC therapy in the setting of recurrent atrial fibrillation PI 395
O. Sultan, Z. Rana (Regina, CA; Cambridge, GB)
- Incidence and significance of early AF recurrences with the second generation cryoballoon: insights from the STOP AF post approval study PI 396
N.Verma, B.P.Knight, P.G. Novak, R. Sangrigoli, J. Champagne, M. Dubuc, S.W.Adler, J.T. Svinarich, V. Essebag, R. Hokanson, F. Kueffer, S.K. Jain, R.M. John, M. Mansour (Chicago, Doylestown, St. Paul, Denver, Mounds View, Pittsburgh and Boston, US; Victoria, Quebec and Montreal, CA)
- Pulmonary vein stenosis after pulmonary vein isolation lessons from invasive repeat studies comparing irrigated radiofrequency current, big cryoballoon, and visually guided laser balloon ablation PI 397
T. Nagase, S. Bordignon, L. Perrotta, F. Bologna, F. Weise, A. Konstantinou, B. Schmidt, J. Chun (Frankfurt am Main, DE)
- The impact of coronary artery disease on electrophysiological properties of atrial myocardium and atrial fibrillation ablation results PI 398
F.G. Rzaev, O.V. Makarycheva, S.V. Petelko, M. Gorev, A.V. Shpektor (Moscow, RU)
- Atrial fibrillation ablation: efficacy and safety in longterm follow up of nMARQ and ThermocoolR catheters PI 399
N. Vitulano, A. Di Monaco, F. Quadrini, F. Troisi, T. Langialonga, M. Grimaldi (Acquaviva Delle Fonti, IT)
- Inadvertently achieved bidirectional conduction block of the lateral mitral isthmus by cryoballoon applications applied at the left atrial appendage and left superior pulmonary vein CASE REPORT PI 400
N. Nishiyama, S. Takatsuki, T. Fujisawa, K. Nakajima, S. Kashimura, A. Kunitomi, Y. Katsumata, T. Nishiyama, T. Kimura, K. Fukumoto, Y. Aizawa, K. Fukuda (Tokyo, JP)
- Distributions and correlation of left atrial low voltage zone detected by high density multielectrode catheter during atrial fibrillation and sinus rhythm. PI 401
S. Iwai, K. Higuchi, C. Toya, H. Muramoto, H. Tsunamoto, S. Matsumoto, T. Ozawa, K. Araki, T. Onishi, I. Kobayashi, Y. Onishi, S. Umezawa, A. Niwa, K. Hirao (Kanagawa and Tokyo, JP)
- An effective therapeutic technique of hot balloon ablation in atrial fibrillation regarding contact force concept PI 402
M. Fukata, Y. Mukai, K. Fujita, K. Irie, S. Kawai, S. Inoue, H. Tsutusi, K. Akashi (Fukuoka, JP)
- Pulmonary vein isolation using laser balloon as compared to standard radiofrequency catheter ablation PI 403
P. Koopman, S. Vanhentenrijk, J. Schurmans, D. DillingBoer, J. Vijgen (Hasselt, BE; Maastricht, NL)
- Contact force implementation in routine clinical practice: results from a french national survey PI 404
S.S. Bun, D.G. Latcu, F. Anselme, S. Boveda, J.C. Deharo, P. Defaye, L. Fauchier, D. Gras, D. Klug, J. Mansourati, E. Marijon, P. Maury, P. Taghji, N. Saoudi, J. Taieb (Monaco, MC; Rouen, Toulouse, Marseille, Grenoble, Tours, Nantes, Lille, Brest, Paris, Marseilles and Aix en Provence, FR)
- Minimal fluoroscopy atrial fibrillation catheter ablation: a prospective multicenter registry PI 405
P. Zei, A. Thosani, R. Mitra, J. Ferguson, C. Brodt, C. Sakarovitch, G. O'riordan (Stanford, Pittsburgh, South Bend and Charlottesville, US)
- A nocontrast lowradiation protocol for cryoballoon ablation of atrial fibrillation PI 406
M. Kuhne, S. Knecht, T. Reichlin, B. Schaer, S. Osswald, C. Sticherling (Basel, CH)
- Does the length of time between directcurrent cardioversion and radiofrequency ablation affect procedural outcomes? PI 407
S. Vanderمولen, E. Stachnik, J. Whitaker, M. O'neill, M. Wright (London, GB)

- Initial experience with a novel contact force sensing system Results of BIOCONCEPT AICath Force study P1408
S. G. Healy, E. Kotschet, D. Adam, L. Bittinger, B. Hunt, P. Gould, M. Barlow, R. Weerasooriya, S. Thomas, P. Jais, J. Alison (Melbourne, Gold Coast, Brisbane, Newcastle, Perth and Sydney, AU; Bordeaux, FR)
- New approach for persistent and long persistent atrial fibrillation: Early Area Defragmentation (EADF) P1409
J. Kumanomido, M. Ohe, G. Haraguchi, A. Obuchi, S. Ito, S. Ueno, Y. Fukumoto (Kurume, JP)
- Comparison of the relative radiation reduction of collimation and open settings during radiofrequency ablation procedures as assessed by realtime radiation detectors P1410
S. Pollak, G. Monir, A. Arnold, C. Santiago, B. Egolf, J. Pepe, A. Moses (Orlando, US)
- Safety and efficacy of the anatomicalguided isolation technique for the superior vena cava in paroxysmal atrial fibrillation patients P1411
M.I. Masayuki Ishimura, Y.H. Yoshiyuki Hama, M.Y. Masashi Yamamoto, Y.H. Yoshiharu Himi (Kisarazu, JP)
- Predictor of instant pulmonary vein isolation using cryoballoon a new method and the practical implication P1412
M. Wu, M. Green, J. Kerlan, D. Lan (Memphis, US)
- A new improved 3D mapping system for left atrial ablation procedures: initial evaluation P1413
M. Moltrasio, G. Fassini, S. Riva, F. Tundo, A. Dello Russo, M. Casella, E. Romanelli, S. Pala, C. Tondo (Milan, IT)
- Preprocedural shortlasting symptomatic atrial fibrillation is associated with multiple procedure success rate after pulmonary vein isolation P1414
S. Knecht, M. Pradella, T. Reichlin, F. Spies, B. Stieltjes, J. Bremerich, S. Osswald, C. Sticherling, M. Kuhne (Basel, CH)
- Should radiofrequency power be titrated according to BMI in order to reduce esophageal injury during atrial fibrillation ablation? P1415
M. Leo, M. Pedersen, R. Bowers, D. Webster, M. Kalla, M. Ginks, Y. Bashir, R. Hunter, K. Rajappan, T.R. Betts (Oxford and London, GB)
- Cardiac tamponade after catheter ablation of atrial fibrillation: a single center experience on 5178 procedures P1416
R. Hamaya, S. Miyazaki, T. Kajiyama, K. Yamao, S. Kusa, T. Watanabe, M. Igarashi, H. Nakamura, H. Hachiya, Y. Iesaka (Tsuchiura, JP)
- Ablation lesions from laser and radiofrequency pulmonary vein isolation compared by magnetic resonance imaging P1417
R.M. Figueras I Ventura, E. Benito, F. Alarcon, S. Prat, R.J. Perea, F. Chipa, J. Cozzari, A. Berruezo, L. Mont (Barcelona, ES)
- Predictive value of the fibrosis index evaluated by voltage mapping during AF ablation: Longterm Results P1418
O. Sapelnikov, U. Shuvalova, D. Cherkashin, A. Krupnov, I. Grishin, A. Partigulova, O. Nikolaeva, A. Chapurnikh, R. Akchurin (Moscow, RU)
- Effect of pulmonary vein isolation on drivers of persistent atrial fibrillation: a prospective study using non-invasive panoramic mapping P1419
P. Peichl, D. Wichterle, R. Cihak, K. Yamagata, B. Aldhoon, J. Kautzner (Prague, CZ)
- Selecting persistent atrial fibrillation patients for pulmonary vein isolation based on the response to amiodarone: efficacy of the onestepback strategy P1420
A. Benak, M. Kohari, A. Herczeg, G. Bencsik, A. Makai, L. Saghy, R. Pap (Szeged, HU)
- Comparison of longterm thromboembolic complication rate between patients after successful and unsuccessful catheter ablation for atrial fibrillation P1421
M. Martirosyan, Z. Kis, T. Geczy, T. SziliTorok (Rotterdam, NL)
- Impact of left atrial electroanatomical scar on outcome after an index pulmonary vein isolation procedure: the scar AF study P1422
S. Bordignon, L. Perrotta, F. Bologna, A. Konstantinou, F. K. Weise, M. Hilbert, B. Schmidt, K. R. J. Chun (Frankfurt a.M., DE)

- PVI non responder: who are them? An analysis of repeat procedures P1423
S. Bordignon, L. Perrotta, F. Bologna, A. Konstantinou, D. Dugo, K. R. J. Chun, B. Schmidt (Frankfurt a.M., DE)
- Safety and efficacy of ablation of paroxysmal atrial fibrillation in elderly patients P1424
M. Nagashima, T. Iseda, Y. Tanaka, S. Tohoku, K. Ando, J. Morita, K. Hiroshima, K. Ando (Kitakyushu, JP)
- Is it safe to perform atrial fibrillation ablation without preprocedural transesophageal echocardiogram in patients on uninterrupted anticoagulation? P1425
M. Afzal, R. Augostini, H. Godara, D. Patel, A. Badin, T. Okabe, J. Tyler, M. Houmsse, E. Daoud, S. Kalbfleisch, R. Weiss, J. Hummel (Columbus, US)
- Clinical utility of forcepower time index for catheter ablation of atrial fibrillation P1426
P. Muenkler, N. Sawan, A. Jobs, A. Abdin, C. Eitel, S. Rausch, H. Thiele, R.R. Tilz (Lübeck, DE)
- Unmasking left atrial electrical remodeling burden in patients with long standing persistent AF P1427
R.M. Kiedrowicz, M. Wielusinski, J. Kazmierczak, A. Wojtarowicz, Z. Kornacewicz Jach (Szczecin, PL)
- Long term outcome after cryoballoon ablation of atrial fibrillation in a single center. P1428
E. Laurent, P. Jacon, S. Venier, F. Dugenet, N. Dayal, A. Tabane, P. Defaye (Grenoble, FR)
- Is the second generation cryoballoon really better than the previous one? longterm results of a large cohort study. P1429
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E. Simeonidou, C. Vlami, K. Ntai, C. Koniari, S. Papiris, J. Lekakis (Athens, GR)
- Bivariate PRSA: a novel tool for detection of functional respiration triggered SAblocks P1612
A. Steger, A. Mueller, M. Toifl, D. Sinnecker, M. Dommasch, P. Barthel, P.P. Pramstaller, G. Schmidt (Munich, DE; Bolzano, IT)
- Variant anatomy of arteries and atrial atriomegaly in patients with different forms of atrial fibrillation. P1613
N.L. Sharikov, S.S.H. Gasyмова (KHANTYMANSIYSK, RU)
- T wave alternans in patients with an implanted cardioverter defibrillator: results of spectral and modified moving average method differ considerably P1614
P. Flevari, A. Katsimardos, D. Katsaras, A. Dunnink, D. Leftheriotis, C. Roever, A. Tuinenburg, M. Vos, M. Zabel (Athens, GR; Utrecht, NL; Goettingen, DE)
- Exercise induced atrioventricular block in athletes: a rare but alarming finding P1615
N. M. Panhuyzen Goedkoop, F.K. Hendriks, H.T. Jorstad, J.L.R.M. Smeets, R.J. Peters (Amsterdam, Arnhem and Nijmegen, NL)
- Clinical profile and intermediate term outcome of 50 consecutive patient of ventricular tachycardia storm managed at a tertiary care center in india P1616
V. Shah, P. Barwad, A. Vyas, A. Dedhia, R. Shah, N. Bachani, Y. Lokhandwala (Mumbai and Chandigarh, IN)
- Detection of premature beats using smartphone based pulse wave recordings P1617
S. Weber, J. Eckstein, N. Koenig, A. Seeck, R. Birkemeyer (Regensburg, Jena and Ulm, DE; Basel, CH)
- Left atrial (LA) fibrosis: a predictor for supraventricular tachycardia P1618
M. Kheirkhahan, P.N. Azadani, N.F. Marrouche (Salt Lake City, US)
- Relationship between the risk of atrial fibrillation and paced P wave in the patients received pacemakers with sick sinus syndrome. P1619
M. Terasawa, S. Nishihara, Z. Kanayama, Y. Saito, Y. Yazaki, K. Satomi, N. Tanaka, T. Chikamori (Hachioji and Tokyo, JP)
- Automatic Brugada pattern detection on continuous electrocardiographic monitoring P1620
M. Calvo, J. Hernandez, S. Vidorreta, J. Brugada, P. Gomis, E. Arbelo (Rennes, FR; Barcelona, ES)

POSTER SESSIONS

Left axis deviation is expected to provide additional benefit to prolonged QRS duration in predicting congestive heart failure in patients with LBBB P1621

J.H. Kim, J.K. O.H. Oh (Daejeon, KR)

Assessment of expiration-triggered sinus arrhythmia from high-resolution ECG recordings for risk prediction in patients after acute myocardial infarction P1622

M. Dommasch, D. Sinnecker, A. Steger, P. Barthel, A. Mueller, R. Ubrich, K.L. Laugwitz, G. Schmidt (Munich, DE)

Association between P wave and PR interval prolongation with cardiac biomarkers: insights from the LIFEAdult Study P1623

J. Kornej, M. Loeffler, J. Thiery, R. Burkhardt, R. Baber, A. Bollmann, C. Engel, D. Husser (Leipzig, DE)

Elevated risk of ventricular tachyarrhythmia and appropriate ICD therapy in patients with hypertrophic cardiomyopathy and a prolonged Tpeak to Tend interval P1624

L. Dinshaw, J. Muench, J. Dickow, S. Willems, M. Patten, B.A. Hoffmann (Hamburg, DE)

Ventricular tachycardia ablation

Delayed efficacy of radiofrequency catheter ablation on ventricular arrhythmias originating from the left ventricular anterobasal wall P1625

L. G. Ding, B.I.N.G.B.O. Hou, L.I.N.G.M.I. Wu, J.I.N.R.U.I. Guo, L.I.H.U.I. Zheng, G.A.N.G. Chen, S.H.U. Zhang, Y.A.N. Yao (Beijing, CN)

Fast and nonclinical ventricular tachycardia inducible after catheter ablation in patients with ischemic and nonischemic dilated cardiomyopathy: definition and clinical implications P1626

M. Watanabe, M. De Riva, S.D. Piers, O.M. Dekkers, J. Venlet, S.A. Trines, M.J. Schalij, D.A. Pijnappels, K. Zeppenfeld (Leiden, NL)

Successful bipolar ablation for hypertrophic cardiomyopathy-related ventricular tachycardia with deep intramural circuits P1627

N. Sakamoto, K. Otsu, Y. Sekiguchi, E. Sugiyama, Y. Tanabe, N. Sato, Y. Kawamura, A. Nogami, K. Aonuma, N. Hasebe (Asahikawa and Tsukuba, JP)

Acute and long-term results of bipolar radiofrequency catheter ablation of refractory ventricular arrhythmias with deep intramural origins P1628

M. Igarashi, A. Nogami, Y. Sekiguchi, J. Nitta, N. Sakamoto, K. Kurosaki, Y. Takahashi, Y. Komatsu, T. Machino, K. Kuroki, H. Yamasaki, Y. Iesaka, K. Aonuma (Tsuchiura, Ibaraki, Saitama, Asahikawa, Yokohama and Tachikawa, JP)

Predictors of mortality in patients undergoing ischaemic or nonischaemic VT ablation P1629

K.V. Nagy, N. Szegedi, G. Szeplaki, T. Tahin, I. Oszthemer, Z. Sallo, S. Herczeg, L. Geller, B. Merkely (Budapest, HU)

Catheter ablation of ventricular tachycardia in patients with MitraClip device: preliminary findings P1630

L. M. Haegeli, G. D'angelo, N. Trevisi, S. Stella, A. Breitenstein, F. Duru, C. Brunckhorst, P. Della Bella (Zurich, CH; Milano, IT)

Ventricular tachycardia confined to the septal mitral isthmus: a new entity in the reperfusion era diagnosed by the 12 lead VT ECG P1631

M. Watanabe, M. De Riva, Y. Naruse, A.P. Wijnmaalen, J. Venlet, S.A. Trines, M.J. Schalij, K. Zeppenfeld (Leiden, NL)

Remote monitoring

Clinical value of the implantable loop recorder in a tertiary referral center P1632

R. Sakhi, D.A.M.J. Theuns, R.E. Bhagwandien, J.W. Roos-Hesselink, T. Szili Torok, S.C. Yap (Rotterdam, NL)

Ease of use and acceptance of remote monitoring of subcutaneous implantable cardioverter defibrillators P1633

P. De Filippo, A. D'onofrio, A. Capucci, M. G. Bongiorno, G. Nigro, A. Vado, P. Ferrari, V. Bianchi, M. Luzi, S. Viani, A. Rago, E. Menardi, M. T. Lucciola, M. Lovecchio, M. Giammaria (Bergamo, Naples, Ancona, Pisa, Cuneo, Turin and Milan, IT)

POSTER SESSIONS

- Clinical significance of the incidental detection of nonsustained ventricular tachycardia with remote monitoring of the pacemaker P1634
S. Poli, D. Facchin, F. Rizzetto, S. Indrigo, L. Rebellato, E. Daleffe, A. Proclemer (Udine, IT)
- Early detection and anticoagulant therapy for atrial fibrillation guided by remote monitoring systems of cardiac implantable electrical devices P1635
T. Sato, K. Soejima, A. Maeda, M. Nagaoka, Y. Momose, N. Matsushita, K. Hoshida, Y. Miwa, I. Togashi, A. Ueda, H. Yoshino (Mitaka, JP)
- Incidence and predictors of atrial arrhythmias in patients with a dual chamber implantable cardioverter-defibrillator followed by remote monitoring P1636
J.O.S. Schwab, H.N. Naegele, H.O. Oswald, G.K. Klein, O.G. Gunkel, A.L. Lang, W.R.B. Bauer, P.K. Korb, T.H. Hauser (Bonn, Reinbek, Hannover, Frankfurt/Oder, Erfurt, Würzburg and Berlin, DE)
- Comparison of Kardia Mobile (one lead ECGs records) with 12lead ECGs in 100 consecutive patients with various cardiovascular disorders. P1637
L. Koltowski, P. Balsam, R. Glowczynska, M. Peller, J. Maksym, L. Blicharz, M. Niedziela, K. Maciejewski, G. Opolski, M. Grabowski (Warsaw, PL)
- Design of an alerts regrouping and management tool for CIED remote monitoring P1638
L. GuedonMoreau, L. Finat, X. Bour, S. Boule, F. Brigadeau, C. Kouakam, D. Lacroix, C. Marquie, D. Klug (Lille, FR)
- Outcomes and costs of remote patient monitoring among patients with implanted cardiac defibrillators: an economic model based on the PREDICT RM database P1639
J.P. Hummel, R.J. Leipold, S.A. Amorosi, H. Bao, K.A. Deger, P. Jones, T.M. Stivland, A.R. Kansal, L.S. Ott, S. Stern, K.A. Stein, J.P. Curtis, J.G. Akar (Chapel Hill, Washington, Saint Paul and New Haven, US)



Wednesday 21 June 2017

For more information, check the most up to date programme on
The Scientific Programme & Planner
www.escardio.org/EUROPACE

MORNING SESSIONS

08:30 - 10:00 HOW-TO SESSION MOBITZ

Keep cool: expert approaches for atrial fibrillation cryo ablation



Mobile App Interactive session.

Chairperson(s): **S. Boveda (Toulouse, FR); L. Chinitz (New York, US)**

08:31 › Patients election for atrial fibrillation cryo ablation. **1640**

G. B. Chierchia (Jette, BE)

08:52 › Procedural aspects: how to place the balloon best in difficult anatomies? **1641**

R. Providencia (London, GB)

09:15 › Safety aspects: how to avoid complications. **1642**

U. Dorwarth (Munchen, DE)

09:37 › Cryo ablation in persistent atrial fibrillation: where do we stand? **1643**

K.H. Kuck (Hamburg, DE)

08:30 - 10:00 HOW-TO SESSION MIROWSKI

What's the future of ICD therapy

Chairperson(s): **I. E. Ovsyshcher (BeerSheva, IL); A. Oto (Ankara, TR)**

08:30 › New technologies: smaller devices, novel implantation strategies, better longevity and less complications? **1644**

S. Saksena (Warren, US)

08:52 › Implantable assist devices will supplement or replace the ICD? **1645**

H. Garan (New York, US)

09:15 › Ablation technology will supplement or replace the ICD? **1646**

M. O'neill (London, GB)

09:37 › New indications for primary prevention at the horizon? **1647**

H. U. Klein (Hannover, DE)

08:30 - 10:00 SYMPOSIUM FURMAN

Falling down: Asystolic syncope

Chairperson(s): **R. Sutton (Monte Carlo, MC); A. Ungar (Florence, IT)**

08:30 › Seizure and asystole: the hen and egg dilemma. **1648**

J. G. van Dijk (Leiden, NL)

08:52 › Pacing for ictal asystole. **1649**

H. Abe (Kitakyushu, JP)

09:15 › Asystole in reflex syncope. **1650**

J.C. Deharo (Marseille, FR)

09:37 › Asystole caused by conduction disturbances. **1651**

M. Tomaino (Bolzano, IT)

MORNING SESSIONS

08:30 - 10:00 SYMPOSIUM COUMEL

Athlete with abnormal ECG: the experts' approach in 2017

Joint Session with the Sociedad Latinoamericana de Estimulacion Cardiaca y Electrofisiologia (SOLAECE) 

Chairperson(s): R. Keegan (Bahia Blanca, AR); H. Heidbuchel (Antwerp, BE)

Learn how experts approach specific ECG abnormalities in athletes in 2017.

08:30 › Athlete with ventricular arrhythmia. 1652

M. J. O. Figueiredo (Campinas, BR)

08:52 › Athlete with borderline, short or long QT. 1653

C. Wolpert (Ludwigsburg, DE)

09:15 › Athlete with AF, SVT and WPW. 1654

M. Scanavacca (Sao Paulo, BR)

09:37 › Athlete with J wave syndromes. 1655

E. Behr (London, GB)

08:30 - 10:00 SYMPOSIUM HIS

Cost effectiveness of device telemonitoring is it worth it ?

In collaboration with the ESC Working Group on eCardiology

Chairperson(s): C. E. Chronaki (Heraklion, GR); W. Jung (VillingenSchwenningen, DE)

08:30 › Tele-rehabilitation strategy after acute coronary syndromes. 1656

D. J. Slotwiner (Pelham, US)

08:52 › Remote management of patients with chronic heart failure: nurse or device? 1657

E. Piotrowicz (Warsaw, PL)

09:15 › Remote monitoring of pacemakers / ICDs to detect clinically important silent atrial fibrillation episodes. 1658

P. E. Dilaveris (Athens, GR)

09:37 › Remote diagnosis of previously undocumented palpitations: is it feasible? 1659

E. T. Locati (Milano, IT)

08:30 - 10:00 HOW-TO SESSION DAMATO

New frontiers and indications for catheter ablation

Chairperson(s): F. Aliyev (Baku, AZ); L. Di Biase (New York, US)

08:30 › Sinus node modification in heart failure patients. 1660

A. Bollmann (Leipzig, DE)

08:52 › Ablation in or of brugada syndrome? 1661

C. Pappone (San Donato Milanese, IT)

09:15 › Ablation of ventricular fibrillation. 1662

M. Hocini (Pessac, FR)

09:37 › Transcutaneous ablation of arrhythmias 1663

D. L. Packer (Rochester, US)

MORNING SESSIONS

08:30 - 10:00

RAPID FIRE ABSTRACT

AGORA

Rapid Fire session 8 Atrial fibrillation and stroke prevention

Chairperson(s): V. Weberndoerfer (Bern, CH); F. Arribas (Madrid, ES)

- 08:30 › Combined risk factors of an impaired fasting glucose and prehypertension are related to new onset atrial fibrillation in a healthy Asian population without underlying disease: A nationwide cohort study
I 664
J. Park (Seoul, KR)
- 08:40 › Patterns and predictors of anticoagulant prescribing for stroke prevention in patients with nonvalvular atrial fibrillation: results from the GARFIELDAF registry
I 665
A. J. Camm, S. Haas, G. Ambrosio, G. Kayani, Y. Koretsune, J. Y. Le Heuzey, F. Misselwitz, A. Parkhomenko, K. Pieper, J. Stepinska, M. Van Eickels, A. K. Kakkar (London, GB; Munich and Berlin, DE; Perugia, IT; Osaka, JP; Paris, FR; Kiev, UA; Durham, US; Warsaw, PL)
- 08:50 › The longterm risk of atrial fibrillation and associated outcomes after carotid endarterectomy
I 666
A. Zegard, M. Stoodley, A. Banerjee, F. Umar, R. J. Taylor, I. Begaj, D. McNulty, M. Griffith, D. Ray, D. Pagano, P. M. Rothwell, F. Leyva (Birmingham and Oxford, GB)
- 09:00 › Systematic screening for atrial fibrillation in 65yearolds with risk factors for stroke. Data from the ACE I 950 Study
I 667
T. Berge, J. Brynildsen, H. K. N. Larssen, S. Onarheim, G. R. Jenssen, H. IhleHansen, I. E. Christophersen, M. Myrstad, P. Smith, H. Rosjo, A. Tveit (Bærum, Lorenskog and Oslo, NO)
- 09:10 › Body fat distribution as risk factor of newonset atrial fibrillation in The European Prospective Investigation Into Cancer and Nutrition in Norfolk Study
I 668
J. Neefs, S. M. Boekholdt, K. T. Khaw, R. Luben, R. Pfister, N. J. Wareham, J. R. De Groot (Amsterdam, NL; Cambridge, GB; Cologne, DE)
- 09:20 › Increased rate of previous stroke in asymptomatic/minimally symptomatic versus symptomatic patients with newly detected atrial fibrillation in western Europe results from the GLORIAAF registry
I 669
S. Christow, K. Seidl, H. C. Diener, M. V. Huisman, G. Y. H. Lip, U. RauchKroenert, S. Schuster, J. Brachmann, A. Muegge, P. L. Schwimmbeck, C. Teutsch, J. Senges (Ingolstadt, Essen, Berlin, Kleve, Coburg, Bochum, Leverkusen, Ingelheim and Ludwigshafen, DE; Leiden, NL; Birmingham, GB)
- 09:30 › Antiarrhythmic drugs in blanking period after catheter ablation of atrial fibrillation do not change effectiveness of the procedure but add clinical benefit
I 670
A. V. Tarasov, O. Reynbakh, K. V. Davtyan, S. Y. Martsevich (Moscow, RU; New York, US)
- 09:40 › The 2MACE score predicts major adverse cardiovascular outcomes in patients with atrial fibrillation without overt coronary artery disease
I 671
M. Polovina, D. Djikic, A. Vlajkovic, M. Vilotijevic, I. Petrovic, M. C. Ostojic (Belgrade, RS)
- 09:50 › Atrial premature complexes during cardiac stress test and their association with the risk of atrial fibrillation development in patients undergoing cardiac rehabilitation
I 672
A. Younis, E. Nof, A. Israel, I. Goldenberg, M. Glikson, R. Klempfner, R. Beinart (Ramat Gan, IL)

10:00 - 11:00

MODERATED POSTERS

POSTER AREA

Moderated Poster session 7 Electrocardiography and computerised models

Chairperson(s): J. Lumens (Maastricht, NL); S. Levy (Marseille, FR)

- Postablative perimitral atrial flutter. Extrapolation of arrhythmia simulation data to ablation clinical results
I 673
E. Zhelyakov, A. Ardashev, M. Mazurov, I. Kaluzhny, Y. Belenkov (Moscow, RU)
- A new use for maximum deflection index: detection of intraventricular dyssynchrony
I 674
D. Y. Sahin, O. Kaypakli, G. Gozubuyuk, M. Koc (Adana, TR)
- The number of QT prolonging drugs correlates to all cause mortality
I 675
C. G. Gibbs, J. Thalamus, J. Hysing, K. H. Haugaa (Oslo and Skien, NO)

MORNING SESSIONS

10:00 - 11:00 MODERATED POSTERS (CONTINUED) POSTER AREA

Moderated Poster session 7 Electrocardiography and computerised models

- Global longitudinal strain predicts ventricular arrhythmias in ICD patients with structural heart disease** 1676
F. Guerra, A. Malagoli, E. Baiocco, D. Contadini, A. Menditto, P. Bonelli, L. Rossi, C. Sticozzi, A. Zanni, G.Q. Villani, A. Capucci (Ancona and Piacenza, IT)
- TpeakTend is not associated with increased risk of arrhythmic events in Brugada syndrome** 1677
G. Mugnai, B. Hunuk, J. HernandezOjeda, E. Stroker, V. Velagic, V. De Regibus, J. Czaplá, J. Nijs, M. La Meir, G. Pappaert, G.B. Chierchia, P. Brugada, C. De Asmundis (Brussels, BE)
- Is pacemaker therapy essential in all patients with ictal asystole?** 1678
R. Kohno, H. Abe, Y. Oginosawa, H. Ohe, M. Takahashi, D. Benditt (Kitakyushu, JP; Minneapolis, US)
- Antitachycardia pacing reduces hospitalization costs for implantable cardioverter defibrillator patients** 1679
P. Sanders, A. T. Connolly, Y. Nabutovsky, M. Saeed (Adelaide, AU; Sylmar, CA and Houston, US)
- The assessment of left atrial appendage flow by computed tomography using serial snapshots method** 1680
C. Toya, H. Muramoto, S. Iwai, K. Higuchi, H. Tsunamoto, S. Matsumoto, T. Ozawa, K. Araki, T. Ohnishi, I. Kobayashi, Y. Ohnishi, S. Umezawa, A. Niwa, K. Hirao (Hiratsuka and Bunkyo, JP)
- Information for 3D image integration from nuclear scans: the role of multiplexed functional imaging for EP procedures** 1681
U. Voss, J. Stirrup, S. Gregg, S. Ernst (London, GB)
- Notched R pattern in V5R is a sign of difficulty during radiofrequency catheter ablation of ventricular arrhythmias originating from the ventricular outflow tract** 1682
M. Igarashi, A. Nogami, T. Watanabe, R. Hamaya, S. Ichijo, K. Yamao, T. Kajiyama, S. Kusa, S. Miyazaki, H. Nakamura, H. Hachiya, K. Aonuma, Y. Iesaka (Tsuchiura and Ibaraki, JP)

11:00 - 12:30 SPECIAL SESSION MOBITZ

Congress Highlights

Chairperson(s): M. Glikson (Ramat Gan, IL); H. Puererfellner (Linz, AT); R. Beinart (Ramat Gan, IL)



- 11:00 > Atrial Fibrillation.** 1683
P. Sommer (Leipzig, DE)
- 11:12 > Devices and Syncope.** 1684
M. Brignole (Lavagna, IT)
- 11:25 > Cardiac resynchronisation therapy.** 1685
G. Boriani (Castenaso (Bo), IT)
- 11:38 > Basic and genetics.** 1686
C. Napolitano (Pavia, IT)
- 11:51 > Catheter ablation.** 1687
C. Wolpert (Ludwigsburg, DE)
- 12:04 > Overview of recent EHRA scientific documents.** 1688
G. Y. H. Lip (Birmingham, GB)
- 12:17 > Innovation.** 1689
F. W. Prinzen (Maastricht, NL)

Poster session 4

Atrial Fibrillation Clinical and epidemiological aspects

- Prolonged Pwave duration is associated with atrial fibrillation recurrence after radiofrequency catheter ablation P1690
Y.S. Wang, G.Y. Chen, X.H. Li, X. Zhou, Y.G. Li (Shanghai, CN)
- Clinical and electrocardiographic characteristics for prediction of newonset atrial fibrillation in asymptomatic patients with atrial premature complexes P1691
S. I. Im (Busan, KR)
- Clinical implications of atrial fibrillation development and progression in patients with permanent pacemakers P1692
Y.K. On, D.H.L. Da Hyon Lee, H.B.G. Hye Bin Gwag, K.M.P. Kyoung Min Park, J.S.K. June Soo Kim (Seoul, KR)
- The results of screen of atrial fibrillation event in Taiwan: the SAFETaiwan study P1693
T.F. Chao, S.A. Chen (Taipei, TW)
- The impact of incident atrial fibrillation on the risk of adverse events for patients with endstage renal disease undergoing dialysis: a timedependent analysis P1694
T.F. Chao, G.Y.H. Lip, S.A. Chen (Taipei, TW; Birmingham, GB)
- Atrial stunning was frequently observed just after electrical cardioversion in the patients with atrial fibrillation: who is more susceptible? P1695
Y. Ito, M. Igarashi, M. Igawa, A. Nogami, K. Aonuma (Ibaraki, JP)
- Utility of the plasma human atrial natriuretic peptide for predicting the left atrial reverse remodeling after the catheter ablation in patients with atrial fibrillation P1696
T. Yoshiyama, K. Simeno, K. Akamatsu, S. Kagawa, T. Matsushita, M. Matsuo, R. Matsumoto, Y. Matsumura, Y. Abe, K. Kamimori, T. Naruko (Osaka, JP)
- Consistently stable body mass index and atrial fibrillation: national health insurance servicehealth screening cohort study in Korea P1697
Y.M. Lim, P.S. Yang, T.H. Kim, J.S. Uhm, J.H. Sung, J.Y. Kim, H.N. Pak, M.H. Lee, B.Y. Joung (Seoul and Seongnam, KR)
- Late postoperative atrial fibrillation in patients with corrected tetralogy of Fallot P1698
T.T.T.K. Ramdjan, E.M.J.P. Mouws, C.P. Teuwen, G.S. Sitorus, C.A. Houck, A.J.J.C. Bogers, N.M.S. De Groot (Rotterdam, NL)
- Detection of subclinical atrial fibrillation in highrisk patients using implantable loop recorder P1699
T. Philippsen, L.S. Christensen, M.G. Hansen, A. Brandes (Odense and Aabenraa, DK)
- Selfadjustment to atrial fibrillation in patients with persistent atrial fibrillation determines the suitability of aggressive sinus maintenance therapy. P1700
T. Haruna, M. Funasako, K. Nakasone (Osaka, JP)
- Cardiac MRI can potentially differentiate atrial fibrillationinduced cardiomyopathy from preexisting left ventricular dysfunction complicated by atrial fibrillation. P1701
T. Haruna, M. Funasako, K. Nakasone (Osaka, JP)
- Left atrial volume index significantly correlated with reverse remodeling of left atrium after atrial fibrillation ablation P1702
T. Murakami, H. Yamaji, S. Higashiya, S. Kamikawa, H. Kawamura, M. Murakami, S. Kusachi, K. Hina (Okayama, JP)

Atrial Fibrillation Mechanisms

- P wave duration and spectral analysis of signal averaged p wave: can this guide us in deciding the extent of af ablation required beyond pulmonary vein isolation? A prospective study P1703
S. Varanasi, G. S. Chu, M. S. Siddiqui, S.H.W. Man, R. Somani, A.J. Sandilands, P.J. Stafford, G.A. Ng (Leicester, GB)

POSTERS SESSIONS

- Circulating adiponectin levels and epicardial fat in patients with atrial fibrillation P1704
S.N. Psychari, D.Varvarousis, D.Tsoukalas, A. Papaspyropoulos, A. Kotsakis, E. Gkika, K. Paravolidakis, I. Paraskevaidis, E.K. Iliodromitis (Athens, GR)
- Increased epicardial fat thickness is differently related to left atrial size in paroxysmal and permanent atrial fibrillation P1705
S.N. Psychari, D.Tsoukalas, A. Papaspyropoulos, D.Varvarousis, E. Gkika, A. Kotsakis, I. Paraskevaidis, E.K. Iliodromitis (Athens, GR)
- Stability and instability of mechanisms at sites where ablation terminates persistent atrial fibrillation prior to pulmonary vein isolation P1706
T. Baykaner, G. Meckler, C.A.B. Kowalewski, F. Shenasa, J.A.B. Zaman, M.Alhousseini, S. Hossainy, D.E. Krummen, P.J. Wang, S.M. Narayan (Stanford and San Diego, US)
- Interatrial differences in AF remodelling P1707
S. Scheruebel, C. Koyani, P. Lang, E. Bernhart, S. Hallstroem, H. Maechler, G. Plank, K. ZornPauly, B. Pelzmann (Graz, AT)
- New insights of voltage characterization between baseline and reinduced atrial fibrillation and sinus rhythm in persistent AF patients P1708
Y. Huo, W. Li, J.C. Bush, C.D. Markovitz, L.C. Mcspadden, T. Gaspar, C. Piorkowski (Dresden, DE; Sunnyvale, St Paul and Sylmar, CA, US)
- Effect of electrogram lengths on AF substrate characterization using a novel AF voltage mapping algorithm in persistent AF patients P1709
Y. Huo, W. Li, L. Ruetz, L.C. Mcspadden, T. Gaspar, C. Piorkowski (Dresden, DE; Sunnyvale, St Paul and Sylmar, CA, US)
- Atrial Fibrillation Catheter ablation**
- Effectiveness of additional substrate modification for recurrent paroxysmal atrial fibrillation patients. P1710
T. Iseda, K. Hiroshima, M. Nagashima, J. Morita, S. Tohoku, K. Ando, K. Ando (Kitakyushu, JP)
- Significant reduction in procedure duration in remote magneticguided catheter ablation of atrial fibrillation using the thirdgeneration magnetic navigation system P1711
T. Maurer, C. Sohns, S. Deiss, L. Rottner, P.Wohlmuth, B. Reissmann, C.H. Heeger, C. Lemes, J. Riedl, F. Santoro, S. Mathew, A. Metzner, F. Ouyang, K.H. Kuck, E.Wissner (Hamburg, DE; Chicago, US)
- A novel design for the mitral isthmus line reducing the need for epicardial ablation P1712
T. Maurer, A. Metzner, P.Wohlmuth, B. Reissmann, C.H. Heeger, C. Lemes, T. Fink, K. Hayashi, A.M. Saguner, J. Riedl, C. Sohns, S. Mathew, E.Wissner, K.H. Kuck, F. Ouyang (Hamburg, DE; Chicago, US)
- A balancing act contact force along the anterior aspect of the lateral pulmonary veins during catheter ablation of atrial fibrillation P1713
T. Maurer, C. Sohns, A. Metzner, L. Rottner, J. Riedl, B. Reissmann, C.H. Heeger, C. Lemes, T. Fink, F. Santoro, S. Mathew, K.H. Kuck, F. Ouyang (Hamburg, DE)
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