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.
Welcome Address

Join EHRA in Vienna for EHRA EUROPACE – CARDIOSTIM 2017

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  
EHRA Scientific Programme Chairperson

Prof. Helmut Puererfellner  
EHRA Scientific Programme Vice-Chairperson

Dr. Arnaud Lazarus  
Cardiostim Scientific Programme Chairperson

Prof. Pierre Jais  
Cardiostim Scientific Programme Vice-Chairperson

Dr. Philippe Ritter  
Cardiostim Past President
Scientific Programme Committees

Abstract Chairs
Dr. Alessandro Proclemer (IT)
Dr. Roy Beinart (IL)

AF Summit
Dr. Christopher Piorkowski (DE)

Allied Professionals
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Prof. Donna Fitzsimonds (GB)
Mrs. Lynne Hinterbuchner (AT)

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Prof. Joachim Ehrlich (DE)
Dr. David Arnar (IS)

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Prof. Win Shen (USA)
Dr. Pierre Bordachar (FR)
Dr. Frederic Sacher (FR)
Prof. Vincent Probst (FR)
Prof. Mark O’Neill (GB)

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

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

Innovation
Prof. Frits Prinzen (NL)

Lead and Device Management Summit
Dr. Maria Grazia Bongiorni (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 Kutyifa (USA)
The Congress Programme Committee has selected the best presentations among a broad topic list submitted.

The programme will feature new research discoveries:
• Four Summits included in the registration fee: VT, AF, Lead Management and eHealth Summit.
• Access cath labs through LIVE Sessions.
• Get updated with the Late Breaking Trial Session.

This year, we anticipate a record number of abstract submissions: Get updated on the latest researches by attending our various abstract sessions.

Target audience:
Electrophysiologists, Cardiologists, Basic scientists, Cardiac nurses, Intensivists, Anaesthesiologists, Internists, General physicians, Epidemiologists, Industry affiliates, Cardiac physiologists, Physicians-in-training, Medical students, Cardiac technicians…

Key figures:
4 Days of scientific exchange
140+ Scientific sessions
5 720+ Healthcare professionals
2000 m²+ Exhibition showcase
450+ International expert faculty members
1 500+ Abstracts and clinical cases submitted
20+ Industry sponsored sessions
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<tr>
<th>Time</th>
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<tr>
<td>08:30</td>
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<td>Best research by young electrophysiologists</td>
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<td>Screening for atrial fibrillation: joint position document from EHRA and WG thrombosis</td>
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<td>Strong statements and controversies in EP</td>
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<td>Conduction and pacemaker induced cardiomyopathy</td>
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<td>Tips for service development presentations and publishing results - Potential abstract development</td>
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<td>ICD therapy in inherited cardiac disorders: indications and identification of the best system for the appropriate patient</td>
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<td>The asymptomatic athlete with abnormal ECG: all sports forbidden?</td>
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<td>Special Session</td>
<td>ICD and CRT</td>
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<td>EP Educational Track</td>
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How to improve the benefits of CRT?

LIVE SESSION I: Focus on AF ablation

10:00

Coffee Break

11:00

Sustained fights on CRT

LIVE SESSION II: MRI interventional suites and MRI-guided ablation

12:45

LUNCH BREAK / SATELLITE SYMPOSIA

14:00

CRT implants: nightmares in the lab

LIVE SESSION III: Focus on VT ablation

15:30

Coffee Break

16:30

CRT: widening of the QRS or widening of the indications?

Practical management approaches of female patients with challenging arrhythmias

Burning issues in catheter ablation in 2017

Controversies in AF ablation

EP fundamentals: what everyone should know

Hybrid ablation in persistent atrial fibrillation: the ultimate heart team approach

Finals of EHRA inventors award and Cardiostim innovators award

CIEDs after cardiac procedures

Stroke and bleeding in atrial fibrillation: difficult management issues

Echo cardiology, Holter recordings and remote monitoring for preventing malignant ventricular arrhythmias

Is it worth the money? Cost-effectiveness in electrophysiology

Late sodium current and cardiac arrhythmias: a basic and translational update

Back to nature? The rise of biologicals to replace catheters, drugs and devices in antiarrhythmic therapy

16:30

18:00
Registration fees

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<tr>
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<th>STANDARD</th>
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<th>NURSE &amp; ALLIED PROFESSIONALS***</th>
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**Non members**

- Early fee - 17 April 2017: €780
- Late fee - 18 May 2017: €850
- Last minute - 12 June 2017: €970

**EHRA members**

- Early fee - 17 April 2017: €600
- Late fee - 18 May 2017: €650
- Last minute - 12 June 2017: €750

**SPECIAL RATES**

- ESC Working Group on Cardiac Cellular Electrophysiology, e-Cardiology, Grown-up Congenital Heart Disease Members**: standard registration at €320
- Nurse: day ticket at €100

Day Tickets

- Sunday, Monday and Tuesday: €480
- Wednesday (morning only): €360

The registration fees include 20% Austrian VAT. Please read the General Conditions.

If you are contacted by any other company or agency offering housing for this congress, please note that these companies are not authorised to represent the ESC in any way, nor do they have access to the officially contracted ESC room blocks or rates. Please be aware that unauthorised companies might not deliver what they promise in terms of quality and location. Rates and extra charges can be inflated or hefty fees placed on credit cards. If you are contacted by any such agency or have any questions regarding their legitimacy please don’t hesitate to contact us at EPHotels@escardio.org or by telephone +33 492947623

Book your hotel

The ESC has appointed Mondial GmbH in Vienna as its official housing agency for hotel reservations for EHRA EUROPACE-CARDIOSTIM 2017.

Mondial has selected a number of hotels with negotiated rates either close to the congress centre or in the city centre with easy access.

**BOOK NOW**

You will be transferred to the online booking system of Mondial.
Telephone requests cannot be accepted.
For group reservation requests please contact Mondial directly by email: ehra.housing@mondial-congress.com

If you are contacted by any other company or agency offering housing for this congress, please note that these companies are not authorised to represent the ESC in any way, nor do they have access to the officially contracted ESC room blocks or rates. Please be aware that unauthorised companies might not deliver what they promise in terms of quality and location. Rates and extra charges can be inflated or hefty fees placed on credit cards. If you are contacted by any such agency or have any questions regarding their legitimacy please don’t hesitate to contact us at EPHotels@escardio.org or by telephone +33 492947623

* The EHRA member fees are reserved for members of the European Heart Rhythm Association (EHRA) for 2017. The 2017 EHRA Membership renewal will open mid November. Find out more about all the benefits of the EHRA membership on the EHRA Web Site.

** The ESC Working Groups member fees are reserved for members of the ESC Working Groups on Cardiac Cellular Electrophysiology - e-Cardiology and Grown-up Congenital Heart Disease with membership validated before 15 October 2016 (Midnight GMT+1)

*** Reduced fees:
- Nurses, Allied Professionals and Basic Scientists non-clinician: a statement on official letterhead proving your status, both signed and stamped by your Head of Department, must be uploaded during the registration process.
- Born after 01.01.1981: please provide a copy of your identity card or passport.
Download the EHRA 2017 Mobile App

Search for 'EHRA 2017' in App Store® / Google play

EHRA EUROPACE - CARDIOSTIM 2017 Mobile App is supported by Medtronic in the form of an unrestricted educational grant.

www.escardio.org/EUROPACE
VT AND VF SUMMIT, ATRIAL FIBRILLATION SUMMIT, LEAD AND DEVICE MANAGEMENT SUMMIT

EDUCATIONAL TRACK

LOCAL LANGUAGE TRACK

41ST MEETING OF THE ESC WORKING GROUP ON CARDIAC CELLULAR ELECTROPHYSIOLOGY

Sunday 18 June 2017

DON'T MISS

VT AND VF SUMMIT, ATRIAL FIBRILLATION SUMMIT, LEAD AND DEVICE MANAGEMENT SUMMIT

EDUCATIONAL TRACK

LOCAL LANGUAGE TRACK

41ST MEETING OF THE ESC WORKING GROUP ON CARDIAC CELLULAR ELECTROPHYSIOLOGY

Sunday 18 June 2017

8:30 - 10:00

MAIN SESSION

SENNING

Atrial fibrillation ablation: what do registries tell us?

- EORP registry: what determines a good outcome from atrial fibrillation ablation in the 'real world'.
- European Atrial Fibrillation Ablation Registry: do outcomes in the real-world compare with trials?
- Epicardial/hybrid atrial fibrillation ablation registry (EHAFAR): how does a hybrid approach compare to a transcatheater approach?
- Practice in perspective: can registry data guide future developments in atrial fibrillation ablation?

08:30 - 10:00

MEET THE EXPERTS

WENCKEBACH

The 12 lead ECG as a daily, indispensable companion - Part 1

Educational Track

08:30 - 10:00

MAIN SESSION

MOBITZ

Recent advances in VT ablation: any effect on outcome?

Joint Session with the Sociedade Brasileira de Arritmias Cardíacas

VT and VF Summit

- Image integration for improvement of success of VT ablation.
- Pace-mapping guided VT ablation.
- Endo-/epicardial ablation for ischemic diseases.
- Endo-/epicardial ablation in non-ischemic diseases.

8:30 - 10:00

SYMPOSIUM

MIROWSKI

Atrial fibrillation, individual patients, individual therapies

Atrial Fibrillation Summit

- Atrial fibrillation in the channelopathies.
- Atrial fibrillation in hypertrophic cardiomyopathy.
- Atrial fibrillation and heart failure.
- Atrial fibrillation: value of personalised therapy and integrated care.

8:30 - 10:00

MEET THE EXPERTS

FURMAN

Effective and safe lead extraction: meet the experts

Lead and Device Management Summit

- Powered or non-powered lead extraction: does it make a difference?
- How do I proceed with lead extraction when a stylet cannot be introduced?
- When do I propose elective surgical lead extraction procedure?

8:30 - 10:00

SYMPOSIUM

COUMEL

Gender issues in ICD and CRT therapy

- Electrophysiologic differences by gender.
- Differential susceptibility to ventricular arrhythmias by gender: clinical data.
- Differential effects of ICD and CRT in Women.
- Why women don't get it?

8:30 - 10:00

MAIN SESSION

HIS

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

- How to interpret Lab results in genetic arrhythmias counseling?
- Novel risk stratification tools for inherited arrhythmias.
- What is new in early repolarisation?
- Genetics of SCD and idiopathic VF: the clinical value of molecular autopsy and family screening.

8:30 - 10:00

SYMPOSIUM

SOKOLOV

Predicting ICD therapies in the real word

- New data on the incidence and predictors of ICD therapy and survival - Lesson from the Israeli ICD registry.
- The role of imaging in risk stratification.
- Autonomic markers of arrhythmic risk.
- Risk stratification and mortality in 2016: implications for ICD implantation?

8:30 - 10:00

MAIN SESSION

SENNING

Cardiac devices: insights from registries

- Co-morbidity and outcomes from device therapy: Insights from the Registry of Emilia Romagna on Arrhythmia Interventions (RERAI).
- Does gender influence the outcome of device or are clinical characteristics different in women? The Multicentre French Registry.
- Is practice in device therapy changing? The pacemaker implantable cardioverter-defibrillator Registry of the Italian Association of Arrhythmology and Cardiac Pacing (AIAC).
- Are heart failure patients receiving guideline-indicated device therapy: the european heart failure registry.
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<td>VT-Ablation: how to deal with difficult substrates</td>
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<td>DEBATE SESSION COUMEL</td>
<td>This house believes that health care workers should sub-specialise in either EP or Device management</td>
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<td>14:00 - 15:30</td>
<td>SYMPOSIUM HIS</td>
<td>The multiple facets of arrhythmogenic ventricular cardiomyopathy</td>
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<td>Interactive ECG interpretation of tachycardias</td>
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**Educational Track**

- Educational Track
- Interactive ECG discussion and interaction with the audience
- ECG 1. Supraventricular tachycardia narrow QRS complex.
- ECG 2. Ventricular tachycardia.
- ECG 3. Tachycardia with wide QRS complex.
### Treatment of electrical storm: how to improve outcome

**VT and VF Summit**
- Electrical storm: what is the best timing for intervention?
- Ablation strategy in electrical storm.
- Drugs or ablation: Is there a difference in recurrence rate and survival?
- Failed ablation: what is next?

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

**Atrial Fibrillation Summit**
- Introduction: the most important complications of catheter ablation.
- Phrenic nerve palsy: how to avoid?
- PV stenosis: still an issue!

### The nightmare of devices infections: best strategies

**Lead and Device Management Summit**
- Is it an early pocket infection? incisional infection? Early post implantation inflammation?
- What to do with contra-lateral leads in case of ipsi-lateral infection?
- How do you “bridge” your patients before reimplantation?
- Reimplantation epicardial? endocardial? subcutaneous? lead less?

### Gene and molecular therapies for cardiac arrhythmias and SCD

**Gene and molecular therapies for cardiac arrhythmias and SCD**
- Gene therapy calcium handling dysfunction in heart failure.
- Gene therapy of inherited arrhythmias.
- Molecular strategies to treat post MI arrhythmias.
- Gene therapy: the future of personalised atrial fibrillation management.
16:30 - 18:00 SYMPOSIUM FURMAN

CIEDs and Lead technology: failures and fears

Lead and Device Management Summit

- Sprint Fidelis lead advisory: nearly 10 years.
- Riata leads: 6 years after the advisory.
- Batterie issues: how to handle?
- Quadripolar left ventricular pacing leads: safe technology?

16:30 - 18:00 SYMPOSIUM COUMEL

Developing knowledge in Austrian Nurses and AHPs PART II.
German speaking stream for local nurses and AHPs

Local language session - Presentation will be given in German with slides in English.

- Update CPR guidelines, are we retraining often enough?
- Sudden cardiac death in sports « help people learn how they can save lives »!
- Defibrillators, AEDs, life vests and ICDs « not all shocks are created equal ».
- 1st CIED control after implant: optimised programming.

16:30 - 18:00 SYMPOSIUM HIS

Genetic discoveries to improve arrhythmia treatment

- Genetics, GWAS, and sudden cardiac death: an update.
- Advanced in using IPS modeling...
- Systematic family screening to reduce the burden of SCD in the young.
- What have we learned about AF mechanisms from GWAS?
- Whole population screening for genetic mutations that cause inherited arrhythmia syndromes in Iceland.
- Is it realistic (and useful)?

16:30 - 18:00 FEATURED SYMPOSIUM DAMATO

Ion channel trafficking in the heart

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

16:30 - 18:00 MAIN SESSION ELMQUIST

Antibradycardia pacing in children

- Evolving indications: what is new?
- Pacing system survival: things to improve.
- Lead implantation and extraction issues.
- Hemodynamic optimisation and CRT

18:15 - 19:15 SPECIAL EVENT SOKOLOV

Inaugural Session

Followed by a Networking Reception in the exhibition
DON'T MISS

E-HEALTH SUMMIT
EDUCATIONAL TRACK
41ST MEETING OF THE ESC Working Group on Cardiac Cellular Electrophysiology

Monday 19 June 2017

8:30 - 10:00
SPECIAL SESSION
SOKOLOV

Late Breaking Trial Session

Presidents from around the world will share the very results of their trials.

8:30 - 10:00
SYMPOSIUM
SENNING

Best research by young electrophysiologists

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

8:30 - 10:00
HOW-TO SESSION
WENCKEBACH

Atrial flutter: more than one of a kind

Educational Track

- Understanding the surface ECG in atrial macro-re-entrant tachycardia.
- Electrophysiologic assessment, activation and entrainment mapping.
- Scar related atrial macro-re-entrant tachycardia in the right atrium.
- Atrial macro-re-entrant tachycardia after atrial fibrillation ablation.

8:30 - 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)

- Localisation of the source.
- RVOT and LVOT.
- Ablation at uncommon sites.
- Ablation of epicardial origine

8:30 - 10:00
SYMPOSIUM
MIROWSKI

Sinus rhythm is better than atrial fibrillation: the “rate vs. rhythm” studies revisited in the era of ablation

- What do the “rate vs. rhythm control” studies really tell us?
- Ablate atrial fibrillation to improve quality of life.
- Ablate atrial fibrillation to improve CHF and prevent ICD shocks.
- Ablate atrial fibrillation to prevent stroke.

Monday 19 June 2017

08:30 - 10:00
SYMPOSIUM
FURMAN

CIED infections: emerging issues, diagnostic and therapeutic modalities

- Infection of subcutaneous ICD: not an issue?
- Leadless pacemaker infection: does it exist and how to manage?
- The antibiotic envelope: shall we use it for all implants?
- PET Scan: does it help?

08:30 - 10:00
SYMPOSIUM
COUMEL

Arrhythmias and heart failure

- Atrial fibrillation and heart failure - Which condition comes first and does it affect management?
- Devices in heart failure: ethics and decision making at device implant.
- VT ablation in patients with heart failure and ICD storm - Which patients are appropriate and should we deliver a 24/07 service?
- Let’s talk about death: end of life management in patients with devices.

11:00 - 12:30
FEATURED SYMPOSIUM
HIS

Translation of cardiac cellular electrophysiology

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

08:30 - 10:00
MAIN SESSION
DAMATO

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

- Rationale for screening.
- Tools for screening.
- Screening strategies.
- Role of the GP, healthcare costs and patient acceptance.
- What the consensus document says?

08:30-10:00
SPECIAL SESSION
ELMQUIST

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

e-Health Summit

With the contribution of the ESC WG e-cardiology and the EHRA Study Group e-health and digital rhythm

- OptiLink: disease management using optirol.
- REM-HF: Is weekly monitoring worthwhile?
- TRUST and IN-TIME: Hope for the future?
- Implantable monitoring-only technologies: CardioMEMS and LAPTOP.
Monday 19 June 2017

11:00 - 12:30 SPECIAL SESSION SOKOLOV

Strong statements and controversies in EP

- LAA-occlusion does not reduce ischemic stroke!
- Panel discussion.
- Remote device monitoring does not improve outcome!
- Panel discussion.
- VT ablation does not reduce mortality!
- Panel discussion.

11:00 - 12:30 MEET THE EXPERTS SENNING

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

This session will encompass intriguing cases moderated by experienced EPs

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

AV-nodal-re-entrant tachycardia: effective and safe modification

AV-nodal conductio

Educational Track

- Understanding the AV-node: anatomy, fluoroscopic anatomy and catheter positions.
- Basic assessment of AV-nodal conduction properties and of different input mechanisms into the AV node.
- Target sites for AV-node modification.
- Catheter ablation of atypical AVNRT.

11:00 - 12:30 SYMPOSIUM MOBITZ

Antiarrhythmic therapy in patients on ventricular assist devices

Joint Session with Acute Cardiovascular Care Association (ACCA)

- Acute mechanical support as part of arrhythmia management.
- LVAD technologies now and in the future.
- Ablation in LVAD patients.
- CIEDs and LVAD patient.

11:00 - 12:30 DEBATE SESSION MIROWSKI

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

- Patients with paroxysmal atrial fibrillation should undergo ablation, even if asymptomatic, to prevent stroke and life-long anticoagulation - PRO.
- Patients with paroxysmal atrial fibrillation should undergo ablation, even if asymptomatic, to prevent stroke and life-long anticoagulation - CONTRA.
- Ablation of atrial fibrillation should be used frequently in heart failure - PRO.
- Atrial fibrillation ablation is rarely needed in heart failure - CONTRA.

11:00 - 12:30 FEATURED SYMPOSIUM FURMAN

Carmeliet-Coraboeuf-Weidmann lecture

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

11:00 - 12:30 SYMPOSIUM COUMEL

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

- The ESC 2016 guidelines on the management of atrial fibrillation: what’s it for nurses and AHPs?
- Atrial fibrillation and ablation therapy: who gains most benefit: the electrophysiologist or the patient?
- Post-discharge ECG Holter monitoring in recently hospitalised individuals with chronic atrial fibrillation to enhance therapeutic monitoring and identify potentially predictive phenotypes.
- What do patients with atrial fibrillation want from services? The patient perspective.

11:00 - 12:30 SYMPOSIUM HIS

Alternative pacing sites to prevent heart failure

- His bundle pacing rationale technique and results.
- RV outflow tract and RV septal pacing.
- CRT-P in brady indications.
- How to avoid tricuspid damage by pacing.

11:00 - 12:30 SYMPOSIUM DAMATO

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

- Epidemiology of valvular atrial fibrillation and implications for stroke/thromboembolism.
- Evidence for antithrombotic therapy from trials.
- Evidence for antithrombotic therapy from observational cohorts.
- Mechanical heart valves, bioprostheses, TAVI.
- What the consensus document says.

11:00 - 12:30 SYMPOSIUM ELMQUIST

The power of electronic health records and computational technologies

e-Health Summit

With the contribution of the ESC WG e-cardiology and the EHRA Study Group e-health and digital rhythm

- Genetics of Long QT and electronic health records.
- Computational prediction of acquired Long QT and drug-induced Torsades de Pointes.
- In silico assessment of cardiac safety of anti-arrhythmic drugs
- Long QT in digital ECG of general population: significance and genetics
### Monday 19 June 2017

**SYMPOSIUM SOKOLOV**

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

- ICD therapy in J Wave syndrome.
- ICD therapy in LQTS.
- ICD therapy in ARVC.
- ICD in athletes - Special consideration.

**SYMPOSIUM SENNING**

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

*Joint Session with EHRA – HRS – SOLEACE – Brazil - APHRS*

- EHRA: our view on AF ablation. Discussion.
- HRS: our view on heart failure implants. Discussion.
- SOLEACE: our view on VT ablation. Discussion.
- APHRS: our view on stroke prevention. Discussion.
- Questions and Answers.

**SYMPOSIUM MIROWSKI**

**Subclinical atrial fibrillation: how much is too much?**

- Multiple APCs as precursors of atrial fibrillation.
- How to screen for atrial fibrillation in high risk population.
- Device detected atrial fibrillation: how much is too much?
- Subclinical atrial fibrillation in cryptogenic stroke.

**SYMPOSIUM FURMAN**

**Pacing indications – State of the art 2016**

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

- Carotid sinus and vasovagal syncope.
- Sinus node dysfunction.
- Bundle branch block.
- Mode Selection and the role of different pacing minimisation algorithms.

**SYMPOSIUM COUMEL**

**Allied health professional role development in arrhythmia diagnosis and management**

- Nurse-led palpitations diagnostic clinics: the middlesbrough experience.
- Remote monitoring: getting the best out of your remote clinics.
- Novel interventions to improve the arrhythmia patient pathway: do we have evidence of effectiveness?
- Post ablation follow-up and the importance of risk factor management: a job for a doctor or an advanced nurse practitioner?

**HOW-TO SESSION WENCKEBACH**

**WPW Syndromes revisited: from the ECG to AP-potentials**

*Educational Track*

- Where is the pathway: precise AP localization from the surface ECG.
- Electrophysiologic assessment of accessory pathway conduction properties.
- Identification of successful ablation sites: AP potentials and other criteria.
- Variants of pre-excitation: the wired and tough stuff.

**HOW-TO SESSION MOBITZ**

**Innovative implants for heart failure patients**

*Mobile App - Voting session*

- Spinal cord neuromodulation.
- Vagal stimulation devices.
- Intracardiac shunt devices.
- Leadless technology for CRT.

**MAIN SESSION DAMATO**

**Scientific documents from EHRA**

- Management of arrhythmias in hypertension.
- Arrhythmias in grown up congenital heart disease.
- Device detected subclinical atrial tachyarrhythmias: what’s the evidence.
- Device detected subclinical atrial tachyarrhythmias: what the consensus document says.
Monday 19 June 2017

14:00 - 15:30
SPECIAL SESSION

ELMQUIST

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

**e-Health Summit**

With the contribution of the ESC W6 e-cardiology and the EHRA Study Group e-health and digital rhythm

- Data derived from wearables.
- Deriving clinically relevant information from big data.
- Google’s deep mind and Innovation in healthcare.
- IBM’s Watson: Innovation to improve Innovation.

16:30 - 18:00
SYMPOSIUM

SOKOLOV

Learning from the expert: CRT implantation techniques

- How to perform peripheral and coronary venoplasty for LV lead implantation.
- The use of snaring techniques in CRT.
- How to minimise fluoroscopy in CRT implantation.
- Techniques for LV andocardial implantation.

16:30 - 18:00
SYMPOSIUM

SENNING

Practical approaches in the catheter ablation of complex arrhythmias

- Current approaches of persistent atrial fibrillation ablation: my preferred approach.
- Catheter ablation in congenital heart disease: my preferred approach.
- Epicardial catheter ablation of ventricular arrhythmias: my preferred approach.
- Current approaches of ischemic ventricular tachycardia ablation: my preferred approach.

16:30 - 18:00
SYMPOSIUM

WENCKEBACH

The ECG and the risk of sudden death

**Educational Track**

- Case 1. Preexcitation syndromes.
- Case 2. Abnormal repolarization syndromes.
- Case 3. ECG in structural heart disease and high risk of sudden death.

16:30 - 18:00
MAIN SESSION

MOBITZ

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

- Combined subcutaneous ICD and leadless VVI pacemaker: coming soon?
- Leadless VDD pacemaker: coming soon?
- Thoracoscopic access to LV epicardial pacing: coming soon?
- Leadless LV pacing: coming soon?
- Pulmonary pressure monitoring: coming soon?

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)**

- Drugs for atrial fibrillation in 2017: what's new?
- Life style changes and sleep apnoea treatment.
- Ablation therapy in 2017 – Any major breakthrough?
- Genetic risk prediction of atrial fibrillation.

16:30 - 18:00
SYMPOSIUM

FURMAN

Conduction and pacing induced cardiomyopathy

- Overt anteroseptal accessory pathway induced heart failure.
- Mechanisms and Pathophysiology of RV pacing induced CMP.
- Prevention of CMP by- RV septal pacing, RVOT pacing, his bundle pacing.
- Treatment- Results of upgrade to CRTP or CRTD?

16:30 - 18:00
SYMPOSIUM

COUMEL

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

- Identifying a need for development: the importance of data.
- Service evaluation: The Dundee arrhythmia service experience.
- Presenting your project: how to choose which meeting and which journal to submit to.
- Why bother? Impact of sharing your results both on other services and to patients.

16:30 - 18:00
FEATURED SYMPOSIUM

HIS

Novel avenues for cardiac cellular electrophysiology

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

16:30 - 18:00
MAIN SESSION

DAMATO

Atrial fibrillation ablation update, joint document with HRS

- Indications for catheter ablation.
- Strategies, techniques, and endpoints.
- Procedural aspects, anticalgulation and complications.
- Clinical trial design.
- Key take home messages and general discussions.
Monday 19 June 2017

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)

- Asymptomatic athlete with mild hypertrophic cardiomyopathy: unanimous disqualification?
- Athlete with asymptomatic ARVD: any sports?
- Athlete with significant bradycardia.
- Athlete with asymptomatic ventricular arrhythmias.

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Tuesday 20 June 2017

SCIENTIFIC PROGRAMME

For more information, check the most up to date programme on:

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The ‘EHRA 2017’ Mobile App
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EDUCATIONAL TRACK

INNOVATION TRACK

8:30 - 10:00 MAIN SESSION SOKOLOV

How to improve the benefits of CRT?
- By use of MRI for selection of candidates.
- By AV and VV intervals optimisation.
- By multisite or multipoint pacing.
- By extending device longevity.

8:30 - 10:00 SPECIAL SESSION SENNING

LIVE SESSION I: Focus on AF ablation
- Live Case from Linz: AT post AF ablation.
- Live Case from Leipzig: AF ablation.
- New technologies for AF ablation.

8:30 - 10:00 SYMPOSIUM WENCKEBACH

SVT ablation: from the rare to the difficult: a case based tutorial
Educational Track
- Ablation of PJRT and Mahaim-Fibers: still a challenge.
- When ablation of AVNRT becomes difficult: This is what you need to know.
- Paraseptal pathways: tips and tricks how to avoid AV-block.

8:30 - 10:00 SYMPOSIUM MOBITZ

Left atrial appendage occlusion: state of the art 2017
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
- Endocardial left atrial appendage occlusion is not as effective as warfarin to prevent ischemic stroke.
- Endocardial left atrial appendage occlusion is as effective as warfarin to prevent ischemic stroke.
- Surgical approaches preventing stroke.
- Lariat suture delivery device: not only for stroke prevention.

8:30 - 10:00 SPECIAL SESSION MIROWSKI

Innovations for better patient care: reports from the EHRA Innovation Forum
Innovation Track
- The near future potential of genetics.
- The near future developments in pharmacological therapies.
- The near future of precision medicine.
- The near future applications of computer modeling.

8:30 - 10:00 SYMPOSIUM FURMAN

Device programming for pacing in special scenarios and populations
- Neuro-muscular diseases.
- When is pacing indicated in hypertrophic CMP?
- Pacing in 1st degree AV Block.
- Pacing in patients with unexplained syncope.

8:30 - 10:00 SYMPOSIUM COUMEL

Anticoagulation for non-valvular atrial fibrillation in 2017
Joint Session with the Heart Rhythm Society (HRS)
- What is the correct definition of "non-valvular" atrial fibrillation?
- Permanent atrial fibrillation with CHADS-VASC score ≥ 1: nothing, aspirin or anticoagulate?
- Anticoagulant should be prescribed for Atrial fibrillation in stage IV-V kidney disease.
- Anticoagulant should NOT be prescribed for Atrial fibrillation in stage IV-V kidney disease.

8:30 - 10:00 SYMPOSIUM HIS

New technologies for prolonged ECG monitoring: how, when and for whom?
- Multi-day and multi-week ECG recording systems.
- Implantable Loop recorders.
- Mobile phone ECG applications and wearables.
- New characteristic of ECG morphology for arrhythmia prediction.

8:30 - 10:00 SYMPOSIUM DAMATO

Medical treatment of channelopathies: effective and safe?
- Quinidine for Brugada and what to do with Quinidine intolerance.
- Ranolazine for LQT3: Treatment that found it’s disease?
- Beta-blockers for LQT3: Contraindicated, acceptable or the drug of choice?
**Tuesday 20 June 2017**

### Hypertrophic cardiomyopathy genetics and clinical management

- Diagnostic and prognostic role of genotyping in HCM.
- Atrial fibrillation and outcome in HCM: the American approach.
- Ablation in HCM.

### Strenuous fights on CRT

- Cardiac resynchronization therapy in the next years: CRT-P will be the preferred device.
- Cardiac resynchronization therapy in the next years: CRT-D will be the preferred device.
- Only LBBB is eligible to CRT.
- Improving the criteria of candidacy for CRT: Wide QRS only for eligibility to CRT.

### Leadless Pacemaker: the future of cardiac pacing?

- From professor to professional in inventing.
- Strategical thinking for inventors.
- How to get your Innovation to be taken seriously.
- From concept to certification of an ablation catheter.
- Is my invention worth pursuing? A beginners guide.

### State of the art on anticoagulation

- Choosing the right anticoagulant for the right patient.
- Using long-term ECG monitor to start and stop anticoagulation.
- Antidotes to anticoagulation: state of the art.
- Choosing the anticoagulant as part of triple therapy.

### 12-lead ECG: diagnostic and prognostic value

- The ECG in Brugada syndrome: predicting VF.
- The ECG in AV block: predicting torsade de pointes.
- Short QT: predicting (or guessing?) VF.
- ECG before and after TAVI: predicting AV block.

### Pharmacological therapy in AF

- The current role of Dronedarone.
- Ranolazine – mechanism and clinical results in AF.
- Atrial-specific antiarrhythmic agents.
- Non anti arrhythmic pharmacological therapy for maintenance of sinus rhythm.
T uesday 20 June 2017

11:00 - 12:30 SYMPOSIUM ELMQUIST

**Back to nature? The rise of biologicals to replace catheters, drugs and devices in antiarrhythmic therapy**

- The biopacemaker - ready for application in humans?
- Biological ablation of atrial and ventricular arrhythmias.
- Deciphering arrhythmia mechanisms using human iPSC-derived cardiomyocytes.
- Electrically active antibodies: emerging roles in pathophysiology and antiarrhythmic therapy.

14:00 - 15:30 MAIN SESSION SOKOLOV

**CRT implants: nightmares in the lab**

- Impossible coronary sinus cannulation and coronary sinus dissection: what to do?
- Indication and technical aspects of epicardial LV Implantation.
- Left persistent superior vena cava: what to do?
- Instability of the LV lead and phrenic nerve stimulation: what to do?

14:00 - 15:30 SPECIAL SESSION SENNING

**LIVE SESSION III: Focus on VT ablation**

- Live Case from Linz: high density mapping for ablation of post MI VT.
- Live Case from Leipzig: Epi-endocardial mapping and ablation of VT in NICM.
- New techniques and technologies for VT ablation.
- Discussion panel.

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

**EP fundamentals: what everyone should know**

*Educational Track*

- The world of entrainment: a must for everyone.
- Stimulation manoeuvres for differentiation between SVTs.
- Stimulation manoeuvres for differentiation of VT from VT.
- Differential pacing and other modes to prove conduction block: how does it work?

14:00 - 15:30 SYMPOSIUM MOBITZ

**Hybrid ablation in persistent atrial fibrillation: the ultimate heart team approach**

*Joint Session with Chinese Society of EP*

- Pathophysiological aspects of persistent atrial fibrillation relevant to ablation.
- Evolution of surgical ablation of atrial fibrillation.
- Rationale for a hybrid surgical and catheter ablation approach for persistent AF.
- Long-term outcome in hybrid ablation of atrial fibrillation.

14:00 - 15:30 SYMPOSIUM FURMAN

**CIEDs after cardiac procedures**

*Joint session with the European Association of Percutaneous Cardiovascular Interventions (EAPCI)*

- Predictors and timing of pacemaker implantation after surgical valvular procedures.
- CIEDS following tricuspid surgical procedures.
- Pacing after TAVI: the interventional view point.
- Pacing after TAVR: the electrophysiologist view point.

14:00 - 15:30 SYMPOSIUM COUMEL

**Stroke and bleeding in atrial fibrillation: difficult management issues**

- Acute bleeding in an AF patient on NOAC: how to use reversal agents appropriately?
- Anticoagulation after catheter ablation: is stopping anticoagulation really a good idea in CADsVASc ≥2?
- Acute ischaemic stroke in AF patient on a NOAC: Thrombolysis, thrombectomy or pray? And what to do next?
- High CHADSVASc and NO AF: any indication for anticoagulation?

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

**Electrocardiogram, Holter recordings and remote monitoring for preventing malignant ventricular arrhythmias**

- How to detect and prevent drug induced long QT syndrome.
- How to detect and prevent drug induced Brugada syndrome.
- How to perform a QT study for new drugs.

14:00 - 15:30 SYMPOSIUM DAMATO

**Is it worth the money? Cost-effectiveness in electrophysiology**

- Comparative cost-effectiveness of atrial fibrillation ablation versus pharmacological therapy.
- Patient compliance and outcomes of pharmacological therapy and atrial fibrillation ablation.
- Commissioning and reimbursement of atrial fibrillation ablation in Europe.
- The role of the ESC Health Policy: relevance to electrophysiology and cardiac device practice.
Tuesday 20 June 2017

**14:00 - 15:30 MAIN SESSION ELMQUIST**

**Late sodium current and cardiac arrhythmias: a basic and translational update**
- Molecular and biophysical mechanisms underlying late sodium current.
- Late sodium current and atrial fibrillation.
- Late sodium current and arrhythmogenesis during heart failure.
- Pharmacological late INa inhibition in inherited arrhythmias.

**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)*
- CRT in NYHA IV: never? sometimes?
- CRT in patients with valvular heart disease: when? what results?
- CRT in diastolic dysfunction: never? sometimes?
- CRT in special situation NYHA I / at first detection of heart failure.

**16:30 - 18:00 SYMPOSIUM SENNING**

**Practical management approaches of female patients with challenging arrhythmias**
*Mobile App - Voting session*
- My practical approach to treatment of female patients with Brugada syndrome.
- My practical approach to catheter ablation of atrial fibrillation in female patients.
- My practical approach of PM/ICD implantation in female patients.
- My practical approach of lead extraction in female patients.

**16:30 - 18:00 SYMPOSIUM COUMEL**

**Cancer therapy and arrhythmias**
- Highlights of ESC position paper on cardio-oncology.
- Arrhythmias induced by Chemotherapy and biological treatment.
- Radiotherapy and the heart.
- Anticoagulation in patients with blood dyscrasias and advanced cancer.

**16:30 - 18:00 SYMPOSIUM HIS**

**Arrhythmic substrate characterisation in the ventricles**
*Joint Session with the European Association of Cardiovascular Imaging (EACVI)*
- Non-invasive electrocardiographic imaging for arrhythmic substrate mapping.
- Myocardial deformation imaging for arrhythmic substrate mapping.
- Simulation-based differentiation between electrical and structural substrates of arrhythmogenic right ventricular cardiomyopathy.
- Exercise-induced damage to the right ventricle: the role of MRI.

**16:30 - 18:00 DEBATE SESSION MOBITZ**

**Controversies in Afib ablation**
- Cryoablation should be first choice in persistent atrial fibrillation - PRO.
- Cryoablation should be first choice in persistent atrial fibrillation - CONTRA.
- NOACs should not be interrupted for Afib ablation - PRO.
- NOACs should not be interrupted for Afib ablation - CONTRA.

**16:30 - 18:00 SPECIAL SESSION MIROWSKI**

**Innovation Parade**
*Innovation Track*
- Recurrent vasovagal syncope: pacemaker revisited.
- Who should be admitted to hospital: risk stratification and syncope management unit.
- Recent advances in ambulatory hemodynamic and rhythm monitoring.
- Syncope: who is fit to drive?
Tuesday 20 June 2017

16:30 - 18:00 SYMPOSIUM DAMATO

**Improving efficacy in the EP lab: work flow, process optimisation and economical balance**

- The value of improved work flow: process optimization medicine.
- Understanding economics in EP: benchmarks, costs and reimbursement.
- A view from the Industry.
- Cost impact and cost-effectiveness of ablation and device therapy compared to other medical therapies.

16:30 - 18:00 DEBATE SESSION ELMQUIST

**Data and evidence in ICD and CRT patients: what's the value?**

- Subanalyses in CRT: should they be trusted? - PRO.
- Subanalyses in CRT: should they be trusted? - CONTRA.
- It is time to reassess current ICD indications by controlled studies - PRO.
- It is time to reassess current ICD indications by controlled studies - CONTRA.

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Wednesday 21 June 2017

**SCIENTIFIC PROGRAMME**

For more information, check the most up to date programme on:

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  www.escardio.org/EUROPACE
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**EDUCATIONAL TRACK**

**INNOVATION TRACK**

### Keep cool: expert approaches for atrial fibrillation cryo ablation

**Educational Track, Mobile App - Voting session**

- Patient selection for atrial fibrillation cryo ablation.
- Procedural aspects: how to place the balloon best in difficult anatomies?
- Safety aspects: how to avoid complications.
- Cryo ablation in persistent atrial fibrillation: where do we stand?

### What’s the future of ICD therapy

**Innovation Track**

- New technologies: smaller devices, novel implantation strategies, better longevity and less complications?
- Implantable assist devices will supplement or replace the ICD?
- Ablation technology will supplement or replace the ICD?
- New indications for primary prevention at the horizon?

### Cost effectiveness of device telemonitoring is it worth it?

**SYMPOSIUM HIS**

- Tele-rehabilitation strategy after acute coronary syndromes.
- Remote management of patients with chronic heart failure: nurse or device?
- Remote monitoring of pacemakers / ICDs to detect clinically important silent atrial fibrillation episodes.
- Remote diagnosis of previously undocumented palpitations: is it feasible?

### New frontiers and indications for catheter ablation

**SYMPOSIUM DAMATO**

- Sinus node modification in heart failure patients.
- Ablation in or of brugada syndrome?
- Ablation of ventricular fibrillation.
- Transcutaneous ablation of arrhythmias.

### Fallen down: Asystolic syncope

**SYMPOSIUM FURMAN**

- Seizure and asystole: the hen and egg dilemma.
- Pacing for ictal asystole.
- Asystole in reflex syncope.
- Asystole caused by conduction disturbances.

### Athlete with abnormal ECG: the experts’ approach in 2017

**SYMPOSIUM COUMEL**

- Athlete with ventricular arrhythmia.
- Athlete with borderline, short or long QT.
- Athlete with AF, SVT and WPW.
- Athlete with J wave syndromes.
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