Final Programme

The Congress’ scientific programme is officially endorsed by:

4th EUROPEAN CONGRESS ON eCARDIOLOGY & eHEALTH

Connecting clinicians and technology to implement eHealth in daily practice

8 - 10 November 2017
Berlin, Germany
The potential of eHealth to provide innovative solutions to health problems is enormous. This has raised high expectations by the public, by politicians and by healthcare professionals. Many see eHealth solutions as the “magic bullet” to solve the numerous unsolved problems related to healthcare, particularly in times of constrained healthcare funding. Information and communication technologies are expected to reduce the burden of disease, to improve healthcare delivery and the experience of care for those living with chronic diseases, to facilitate more personalized and person-centered care at the right time and in the right place, and all this at reduced, or at least not increased, cost.

The 4th European Congress on eCardiology and eHealth is dedicated to the use of eHealth solutions in every aspect of cardiovascular care such as prevention, diagnosis, risk assessment, monitoring, education, counselling and treatment.

Join us in Berlin, on 8th-10th November 2017, to exchange, learn or present your technological platforms, products and/or services in eHealth, focusing on eCardiology, and, thereby, partnering with us to build a stronger bridge, connecting clinicians and developers.

We look forward to having you with us, during the 4th edition of the European Congress on eCardiology and eHealth for what we believe will be a thought-provoking and stimulating exchange forum amongst all active stakeholders in this fast developing field.

Sincerely,
Professor Hugo Saner, Congress Director

Core Faculty members

Hugo Saner
Department of Cardiology, Swiss Cardiovascular Centre, University Hospital, Bern, Switzerland

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Thoraxcenter, Department of Cardiology, Erasmus MC, Rotterdam, The Netherlands

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Institute of Cardiology, Warsaw, Poland

Jonathan Rawstorn
Institute for Physical Activity and Nutrition, School of Exercise and Nutrition Sciences, Melbourne, Australia

Georg Schmidt
Technische Universität München, Germany

Roderick Treskes
Leids Universitair Medisch Centrum, Leiden, The Netherlands

William Wijns
The Lambe Institute for Translational Medicine and Curam, Galway, Ireland

20+ pre-arranged scientific sessions - 75+ abstracts - 33+ countries - 9 CME credits - 30+ exhibitors - 5 new cross sessions
Case-based discussions - hands-on demonstrations - daily startup showcases

The event “Fourth European Congress on eCardiology and eHealth” has been granted 9 European CME credits (ECMEC®s) by the European Accreditation Council for Continuing Medical Education (EACCME®).

BERLINER CHAMBER OF PHYSICIAN
The Berliner Ärztekammer evaluated the Fourth European Congress on eCardiology and eHealth with 12 CME credits (6 points for 9th and 6 for the 10th).
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<td>Charité Centre for Cardiovascular Telemedicine Site Visit</td>
<td>Telemedicine: safety, quality and reimbursement. Where do we stand today?</td>
<td>eHealth in primary and secondary prevention of cardiovascular disease</td>
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<td>Poster presentations</td>
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Details on www.e-cardiohealth.com
PROGRAMME

Wednesday, November 8th

15:00-16:30
Charité Centre for Cardiovascular Telemedicine Site Visit

- 30 min visit x 3 slots
- WARNING: limited to 10 persons per time slot

Thursday, November 9th

09:00-10:00
Hall C - Inaugural Session
Chairpersons: Hugo SANER (Switzerland) - Enrico Gianluca CAIANI (Italy)

- 09:00-09:15 - Welcome and introduction - Hugo SANER (Switzerland)
- 09:15-09:30 - eHealth in Berlin 2017 - Markus MÜSCHENICH (Germany)
- 09:30-10:00 - Best practices and challenges for conducting and publishing eHealth research - Gunther EYSENBACH (Canada)

10:00-10:30
Coffee break - Visit of the exhibition

10:30-12:00
Hall C - Advances in mobile health in healthcare delivery
Chairpersons: Marlien VARNFIELD (Australia) - Maurice MARS, (South Africa)

- 10:30-10:52 - Instant messaging and selfies: the future of telemedicine - Maurice MARS, (South Africa)
- 10:52-11:15 - Innovative cardiac service in regional areas - Marlien VARNFIELD (Australia)
- 11:15-11:37 - Virtual cardiac emergency unit: the use of mobile technologies in acute cardiology - Ed DE KLIUIVER (Netherlands)
- 11:37-12:00 - Novel mHealth prevention services within integrated care models - Julie REDFERN (Australia)

Hall A - eImaging: next generation of cardiovascular imaging
Chairpersons: Nico BRUINING (Netherlands) - Roderick TRESKES (Netherlands)

- 10:30-10:52 - Cardiovascular imaging: Teraflips or Teraflops? - Okan EKINCI (Germany)
- 10:52-11:15 - Patient-specific computer simulations for planning cardiovascular interventions - Matthieu DE BEULE (Belgium)
- 11:15-11:37 - The heart in your hands: recent developments and use of a patient-specific 3D printed models for cardiology applications - Veronica CECCATO (Germany)
- 11:37-12:00 - Mobile imaging: is the cloud ready to handle cardiologic imaging? - Nico BRUINING (Netherlands)

Hall B - Beyond the pills - Drug therapy and digitalization
Chairpersons: Friedrich KÖHLER (Germany) - Martin MIDDEKE (Germany)

- 10:30-10:45 - The ADAM-Project - IT support to make drug therapy more safe - Daniel GRANDT (Germany)
- 10:45-11:00 - Nokia Tech - Patient solutions for hypertension: business models, go-to-market strategies and case studies - Matthieu VEGREVILLE (France)
- 11:00-11:15 - Novartis - Digital (R)evolution beyond the pill: an industry perspective - Thomas HACH (Switzerland)
- 11:15-11:30 - The patient perspective: current issues of adoption and effectiveness of digital patient interventions - Alexander SCHACHINGER (Germany)
- 11:30-12:00 - Discussion
Thursday, November 9th

**12:00-12:45**

**Industry Sponsored Session**
(See details on page 9)

**12:45-13:30**

**Lunch break - Visit of the exhibition**

**13:30-15:00**

**Hall A - Young Investigator Awards**
Chairpersons: Enrico Gianluca CAIANI (Italy) - Paul DENDALE (Belgium)
Jury: Nico BRUINING (Netherlands) - Friedrich KÖHLER (Germany)

- **13:30-13:45**
  - O-1 A proposal for a German nation-wide vaccination system: empowering patients through digital involvement - Constanze KNAHL (USA)

- **13:45-14:00**
  - O-2 Occlusion in anomalous coronary arteries: a parametric computer-based simulation - Michele CONTI (Italy)

- **14:00-14:15**
  - 0-3 Effects of interne-based exercise training compared with supervised group exercise training in patients with type 2 diabetes: a randomized controlled study - Buket AKINCI (Turkey)

- **14:15-14:30**
  - O-4 ECG-derived expiration-triggered sinus arrhythmia is a strong risk predictor in survivors of acute myocardial infarction - Alexander STEGER (Germany)

- **14:30-14:45**
  - O-5 Exploring physical activity behavior, needs for and interest in a technology-delivered home-based exercise program among patients with intermittent claudication - Nils CORNELIS (Belgium)

- **14:45-15:00**
  - O-6 PPG versus single lead ECG for the diagnose of atrial fibrillation - Thijs VANDENBERK (Belgium)

**Hall B - Who owns my data?**
Chairpersons: Hugo SANER (Switzerland) - Enno T. VAN DER VELDE (Netherlands)

- **13:30-13:50**
  - The legal position of data ownership in EU countries - Jennifer CRAMA (Netherlands)

- **13:50-14:10**
  - Who owns the data? Open data for healthcare - Jenny KRUTZINNA (United Kingdom)

- **14:10-14:30**
  - Patient data and the patient journey: who owns what? - Douwe ATSMA (Netherlands)

- **14:30-14:50**
  - The standpoint of the European Society of Cardiology (ESC) on personal data protection - Alan FRASER (United Kingdom)

- **14:50-15:00**
  - Discussion

**Hall C - Multidisciplinary models of telecare** *(A joint session with ESC CCNAP)*
Chairpersons: Marlien VARNFIELD (Australia) - Lis NEUBECK (United Kingdom)

- **13:30-13:52**
  - Home hospitalisation for heart failure patients: first experiences from the Netherlands - Astrid VAN DER VELDE (Netherlands)

- **13:52-14:15**
  - Text messaging system for medication adherence in cardiac rehabilitation patients in Iran - Sahar KHONSARI (United Kingdom)

- **14:15-14:37**
  - Telemonitoring: the role of the heart failure nurse - Oliver DECKWART (Germany)

- **14:37-15:00**
  - Impact of at home telemonitoring of patients with cardiac disease on healthcare expenditure, admissions to hospital and length of stay - The CSIRO Australian National Telehealth Trial - Branko CELLER (Australia)

**15:00-15:30**

**Coffee break - Visit of the exhibition**
Thursday, November 9th

15:30-17:00

**Hall C - Telemedicine: safety, quality and reimbursement. Where do we stand today?**

Chairpersons: Frank LIEVENS (Belgium) - Alexandru MISCHIE (France)

- **15:30-15:52** - Ways to make the healthcare "Euro" go further - With digital - Jos KRAAL (Netherlands)
- **15:52-16:15** - Legal framework for the use of telemedical care in Europe - Raf VAN GOETHEM (Belgium)
- **16:15-16:37** - The impact of telehealthcare on the quality & safety of care - Susannah MCLEAN (United Kingdom)
- **16:37-17:00** - The Capstone project: applying the Safety, Quality, Informatics and Leadership (SQIL) principles to assure successful implementation of telemedical care - Ines FREDERIX (Belgium)

**Hall A - eHealth and cyber security**

Chairpersons: Enno T. VAN DER VELDE (Netherlands) - Roderick TRESKES (Netherlands)

- **15:30-15:52** - Cyber security of medical devices - Stefano ZANERO (Italy)
- **15:52-16:15** - Safety and privacy issues in using freely downloadable health care apps - Zeki ERKIN (Netherlands)
- **16:15-16:37** - Cybersecurity and cyber resilience, practical insights and measures for hospitals - Wilhelm DOLLE (Germany) and Salo VAN BERG (Netherlands)
- **16:37-17:00** - Homeland security speaker: European level - Athanasios DROUGKAS (Greece)

**Hall B - eRhythm contribution to the selection of patients for primary ICD prophylaxis**

Chairpersons: Marek MALIK (United Kingdom) - Georg SCHMIDT (Germany)

- **15:30-15:45** - Remote HRV assessment - Heikki HUIKURI (Finland)
- **15:45-16:00** - Digital assessment of cardiac repolarization - Axel BAUER (Germany)
- **16:00-16:15** - Respiration monitoring - Georg SCHMIDT (Germany)
- **16:15-16:30** - Strength of combining digital signals - Marek MALIK (United Kingdom)
- **16:30-16:45** - Present practice and e-cardiology advances - Federico LOMBARDI (Italy)
- **16:45-17:00** - Discussion

17:00-18:00

**Poster presentations - “Walk through with Host”**

18:00-20:00

**Networking buffet cocktail on the exhibition**

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**SYMPOSIUM bewell® connect by Visiocheck**

Creating contextualized and actionable data in “real-life” is one the keys to e-health’s success. Without a proper analysis of the problems that patients and doctors face, the usual techno-push strategy is bound to conflict with usability. Through its unique Gateway Suite, bewell® proposes different experiences to match different situations: from home-telemonitoring for seniors, through ambulatory surgery to the newest ideas like the Point of Care, each case introduces its own constraints, risks and incentives...

COME AND LISTEN ROOM C THE 10th OF NOVEMBER FROM 12H TO 12H45.
Friday, November 10th

08:30-10:00

**Hall C - Innovations in telemonitoring for heart failure patients**
Chairpersons: Hugo SANER (Switzerland) - Ulf LANDMESSER (Germany)

- **08:30-08:52** - The growing role of eHealth in the management of patients with chronic heart failure - Ewa PIOTROWICZ (Poland)

- **08:52-09:15** - Telemonitoring based on atrial pressure - Friedrich KÖHLER (Germany)

- **09:15-09:35** - Requirements for telemedical centres aimed for the remote patient management of cardiovascular patients - The certification concept of the German Society of Cardiology - Thomas HELMS (Germany)

- **09:35-10:00** - New diagnostic parameter derived from standard software for telemonitoring of HF-patients - Gerd HASENFUS (Germany)

**Hall A - eIntervention and acute cardiac care: developments and applications**
Chairpersons: Nico BRUINING (Netherlands) - Joost DAEMEN (Netherlands)

- **08:30-08:52** - A self-examination device to shorten the patient’s delay during STEMI: from idea to the first-in-men clinical trial - Peter GHEERAERT (Belgium)

- **08:52-09:15** - 3D-camera assisted detection of ECG electrode (“dis”)-placement, can this help to detect ischemia in the ambulance? - Peter VAN DAM (Netherlands)

- **09:15-09:37** - A novel municipal networked cathlab data sharing system - Joost DAEMEN (Netherlands)

- **09:37-10:00** - Robot-assisted telestenting: a combination of robotics and telecommunicative percutaneous coronary interventions - Paul CUMMINS (Netherlands)

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**Zur Schlafanfallprophylaxe bei Vorhofflimmer-Patienten**

„ELIQUIS®: WEIL MIR 1-FACH ZU WENIG IST.“

**ÜBERLEGEN: Bessere Wirksamkeit vs. Warfarin**

**ÜBERLEGEN: Weniger Blutungen vs. Warfarin**

**ELIQUIS® VERBINDET BEIDES**

"ELIQUIS® bietet gleichzeitig eine signifikant überlegene Reduktion von Schlafanfällen/ systemischen Embolien und schwernen Blutungen vs. Warfarin."*2

* Patienten mit nicht-valvulärem Vorhofflimmern und einem oder mehreren Risikofaktoren.
* Schwere Blutung war ein wichtiger sekundärer Endpunkt in der ARISTOTLE-Studie und wurde entsprechend einer vorab festgelegten hier-archischen Test-Strategie getestet, um den Typ-I-Fehler in der Studie möglichst niedrig zu halten.

Friday, November 10th

**Hall B - Business models and solutions**
Chairpersons: Paul DENDALE (Belgium) - Ines FREDERIX (Belgium)
- **08:30-08:45** - Expert tool as example for a business case - Karin CONINX (Belgium)
- **08:45-09:00** - Teleconsultation as a service - Mario HUYGHE (Belgium)
- **09:00-09:15** - COMARCH - Experiences throughout various implementations of projects in different fields and different countries - Michal PRUSKI (Switzerland)
- **09:15-09:30** - IMPLICITY - New business models based on regular refunds of the medical devices or services such as telesurveillance - Arnaud ROSIER (France)
- **09:30-09:45** - Discussion

**10:00-10:30**
Coffee break - Visit of the exhibition

**10:30-12:00**
**Hall C - Session 10 - Update on studies for remote patient management for heart failure patients**
Chairpersons: Ewa PIOTROWICZ (Poland) - Thomas HELMS (Germany)
- **10:30-10:45** - The MEMS-HF study - Stephan ROSENKRANZ (Germany)
- **10:45-11:00** - The TIM-HF II study - Friedrich KÖHLER (Germany)
- **11:00-11:15** - The REM-HF study - John M. MORGAN (United Kingdom)
- **11:15-11:30** - The CARDIOBBEAT study - Heinz VÖLLER (Germany)
- **11:30-12:00** - Discussion

**Hall A - How to successfully design and deploy an eHealth solution?**
Supported by an unrestricted educational grant from WeHealth by Servier
Chairpersons: Enrico Gianluca CAIANI (Italy) - Britta BÖCKMANN (Germany)
- **10:30-10:52** - How to design an eHealth solution? - Julia VAN GEMERT-PIJNEN (Netherlands)
- **10:52-11:14** - Patient perspective on eHealth solutions: how to really benefit - Henk DUINKERKEN (Netherlands)
- **11:14-11:36** - Business models for eHealth, how to succeed - Ruben CASADO ARROYO (Belgium)
- **11:36-12:00** - Health technology assessment for eHealth solutions - Francesco PETRACCA (Italy)

**Hall B - ePublishing: navigating the expanding knowledge arena: new frontiers in science**
Chairpersons: Nico BRUINING (Netherlands) - Paul CUMMINS (Netherlands)
- **10:30-10:45** - Don't wait – Making the move from the old in-print to the novel online platforms of accessible science - Pascal MEIER (Switzerland)
- **10:45-11:00** - How to maximize the highest visibility and impact of your scientific output - Paul CUMMINS (Netherlands)
- **11:00-11:15** - How to publish and maximize the impact of your eHealth research - Gunther EYSENBACH (Canada)
- **11:15-11:30** - Fundraising in the digital era - Mark SCHUURING (Netherlands)
- **11:30-12:00** - Discussion

**12:00-12:45**
Industry Sponsored Session
(See details on page 10)

**12:45-13:30**
Lunch break - Visit of the exhibition
Friday, November 10th

13:30-15:00

**Hall C - eHealth in primary and secondary prevention of cardiovascular disease**
Chairpersons: Ines FREDERIX (Belgium) - Gianfranco PARATI (Italy)

- 13:30-13:52 - Can we have confidence in oscillometric methods for non invasive measurement of blood pressure? - Branko CELLER (Australia)
- 13:52-14:15 - Telerehabilitation in hypertension: the TRIHYP study - Véronique CORNELISSEN (Belgium)
- 14:15-14:37 - Exercise-based cardiac telerehabilitation: can we have our cake and eat it too? - Jonathan Charles RAWSTORN (Australia)
- 14:37-15:00 - Cardiac telerehabilitation: the new kid on the block - Hareld KEMPS (Netherlands)

**Hall A - How big data could enhance clinical performance in cardiology?**
Chairpersons: Paul DENDALE (Belgium) - Mamas MAMAS (United Kingdom)

- 13:30-13:52 - Big data analytics and artificial intelligence for cardiology: where we stand? - John CRAWFORD (United Kingdom)
- 13:52-14:15 - Using big data to measure and improve cardiovascular health and healthcare services - Jack TU (Canada)
- 14:15-14:37 - Big data and CMR: opportunities and challenges - Steffen PETERSEN (United Kingdom)
- 14:37-15:00 - Big data analytics from health records - Mamas MAMAS (United Kingdom)

**Hall B - Smartphones for cardiac monitoring: gadgets or clinical tools?**
Chairpersons: Enrico Gianluca CAIANI (Italy) - Roderick TRESKES (Netherlands)

- 13:30-13:45 - Could accelerometers and gyroscopes detect changes in cardiac strain? - Philippe VAN DE BORNE (Belgium)
- 13:45-14:00 - Early detection of diseases using breath analysis: a myth or reality? - Morad K. NAKHLEH (France)
- 14:00-14:15 - Preventicus - Smartphone based and highly cost-effective structured AF screening programs for stroke prevention - Thomas HUEBNER (Germany)
- 14:15-14:30 - Visiomed - François TEOUL (France)
- 14:30-15:00 - Discussion
**INDUSTRY SPONSORED SESSIONS**

**Thursday, November 9th**

**COMARCH – SYMPOSIUM  12:00-12:45  (Hall C)**

**NOMED AF: prevention and treatment of modern age heart disease**  
Chairperson: Piotr PIATOSA (Poland)  
- 12:00-12:15 - Prevalence and significance of “silent atrial fibrillation” - Adam SOKAL (Poland)  
- 12:15-12:30 - Non-invasive monitoring for early detection of atrial fibrillation: aims of the study, general structure, and validation phase (NOMED-AF) - Beata SREDNIAWA (Poland)  
- 12:30-12:45 - How to transform a doctor’s vision into a real product on the example of the NOMED-AF project - Marcin NOCZYNSKI (Poland)

**NOKIA TECH – SYMPOSIUM  12:00-12:45  (Hall B)**

**Revolutionizing the prevention and the treatment of cardiovascular diseases with connected health devices**  
Chairperson: Reda ATTAHRI (France)  
- 12:00-12:23 - Bundling patient digital programs, connected devices and medication to improve patient engagement and outcomes - Matthieu VEGREVILLE (France)  
- 12:23-12:45 - How can connected devices be used in chronic care management & prevention? - Matthieu VEGREVILLE (France)

**MEDTRONIC – SYMPOSIUM  12:00-13:00  (Hall A)**

**Management of implantable cardiac devices in the digital era**  
Chairperson: Friedrich KÖHLER (Germany)  
- 12:00-12:30 - Improved detection and a triaging and monitoring center for implantable cardiac monitors - Stuart ALLEN (United Kingdom)  
- 12:30-13:00 - Improving outcomes by increased patient involvement in pacemaker therapy - Giulio MOLON (Italy)

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INDUSTRY SPONSORED SESSIONS

Friday, November 10th

**VI SI O M E D – SYMPOSIUM  12:00-12:45  (Hall C)**

e-health : beyond technology, a usability-centric experience

*Speaker:*
- François TEOUL (France)

Analysis of different experiences to match different situations: From home-telemonitoring for seniors, through ambulatory surgery to the newest ideas like the Point of Care, each case introduces its own constraints, risks and incentives...

**P F I Z E R – SYMPOSIUM  12:00-12:45  (Hall A)**

AF detection: supportive approaches and tools

*Chairperson: Mathias MAHN (Germany)*

- 12:00-12:15 - How new ECG-devices might shape diagnostic and therapeutic pathways: the big pharma perspective - Mathias MAHN (Germany)
- 12:15-12:30 - Predictive algorithms as a tool to detect patients with high AFib risk - Edin BASIC (Germany)
- 12:30-12:45 - Optimization of atrial fibrillation diagnosis: from patient to payer - Erik S. POULSEN (Denmark)

**H I L B E R T P A R A D O X – SYMPOSIUM  12:00-12:45  (Hall B)**

A global digital platform for cardiology professionals: demo and discussion

*Chairperson: Marcell DE VRIES (Belgium)*

- 12:00-12:45 - A global digital platform for cardiology professionals: demo and discussion - Ivan JURETA (Belgium)

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**eCARDIOLOGY & eHEALTH CONGRESS  Nov. 9th 12:00 Hall C**

**NOMED AF: Prevention and treatment of modern age heart diseases**

Comarch Healthcare, official Gold sponsor at the eCardiology & eHealth Congress, is looking forward to welcome you on the 9th of November at 12.00 in Hall C. For further questions, meet our experts at the symposium entitled “NOMED AF: Prevention and treatment of modern age heart diseases”

- **Prevalence and significance of “silent atrial fibrillation”**
  Adam Sokal MD  
  Silesian Park of Medical Technology Kardio-Med Silesia, Zabrze, Poland

- **Non-invasive monitoring for early detection of atrial fibrillation – aims of the study, general structure and validation phase (NOMED-AF)**
  Professor Beata Sredniawa MD  
  Silesian Park of Medical Technology Kardio-Med Silesia, Zabrze, Poland  
  Department of Cardiology Medical University of Silesia, SMDZ Zabrze, Poland

- **How to transform a doctor’s vision into a real product on the example of the NOMED-AF project**
  Marcin Noczyński  
  Director of R&D Department, Comarch Healthcare, Cracow, Poland

The NOMED-AF project is carried out in the framework of strategic programme of research and development called “Prevention and treatment of modern age diseases” - STRATEGMED, 2nd tender.
PRACTICAL INFORMATION

WHERE
Maritim proArte Hotel Berlin
Friedrichstraße 151 10117 Berlin (Germany)

WHEN
Wed. 8 November afternoon – eHEALTH AT CHARITÉ (pre-registration required)
Visit 3 sites to experience eHealth in Daily Practice

Thursday 9 November .... 09:00 to 18:00 ........................... CONGRESS AND EXHIBITION
Thursday 9 November .... 18:00 to 20:00 ...... NETWORKING BUFFET COCKTAIL ON THE EXHIBITION
Friday 10 November .......... 08:30 to 15:00 ........................... CONGRESS AND EXHIBITION

MOBILE APP
Download the official Mobile App of the European Congress on eCardiology and eHealth and get :

- All the latest info about the programme, the speakers, the partners, and more
- Exclusive access to the abstracts
- Exclusive contact opportunity with fellow participants – contact them now to network and optimize your experience of the Congress
- NEW: ask your questions and interact with speakers

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NOW AVAILABLE FOR ALL MEDTRONIC IMPLANTABLE DEVICES: IPGs, CRTs, ICMs, ICDs
European patent application pending


See the device manual for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative or consult the Medtronic website at www.medtronic.com
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