



eCardiology
eHealth

Valid as of 02/10/17

4th EUROPEAN CONGRESS ON eCARDIOLOGY & eHEALTH

Connecting cardiovascular clinicians and technology to deliver improved patient care

8th - 10th November 2017
Berlin, Germany



Preliminary Programme

The Congress' scientific programme is officially endorsed by:



Deutsche Gesellschaft
für Innere Medizin e.V. ®

DGTelemed 



DGK.
German Cardiac Society

EHTEL
EUROPEAN HEALTH TELEMATICS ASSOCIATION

ISfTeH
International Society for
Telemedicine & eHealth



PCR
innovators day

WELCOME

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

MEMBERS

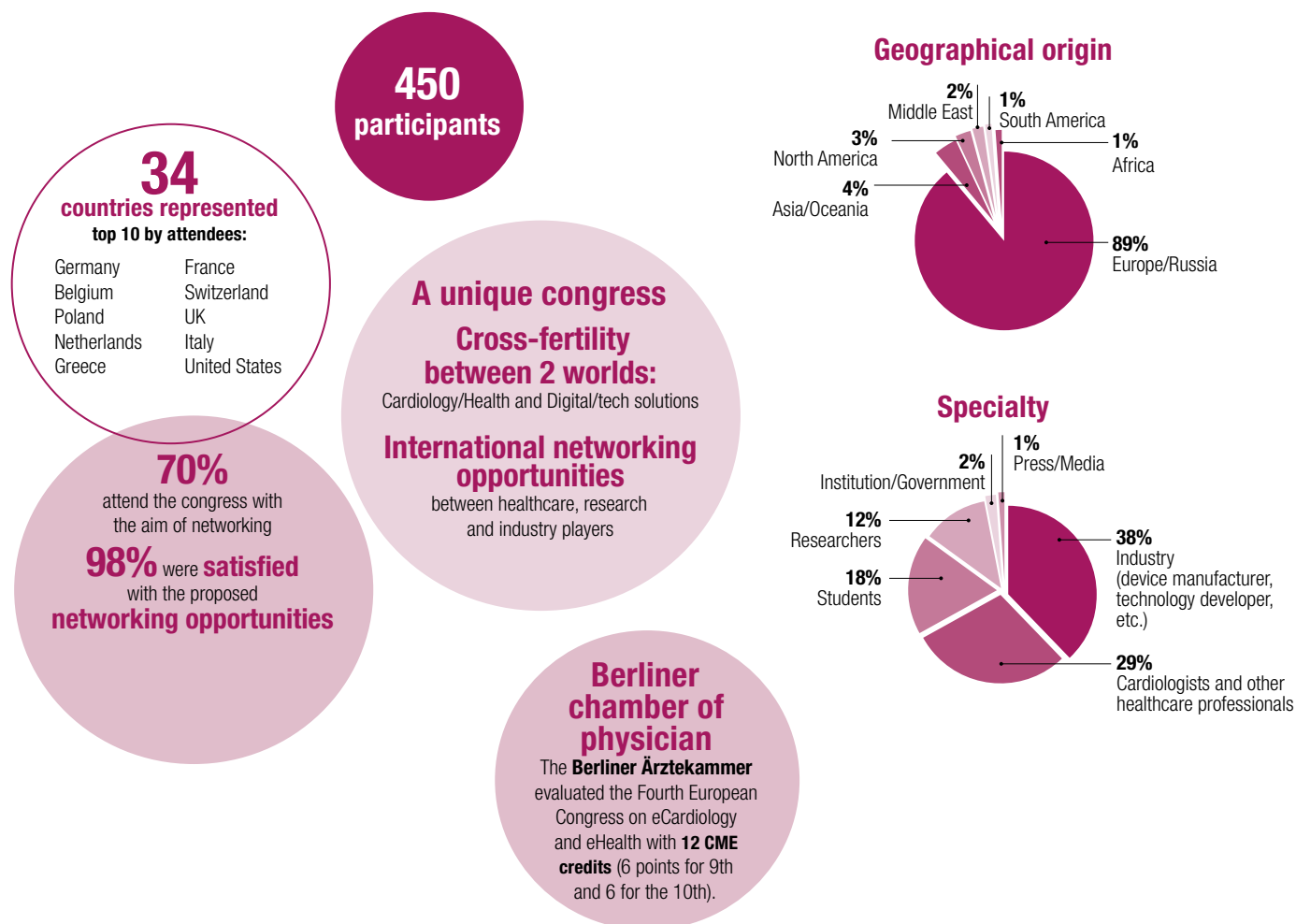
CORE FACULTY MEMBERS

Hugo Saner	Department of Cardiology, Swiss Cardiovascular Centre, University Hospital, Bern, Switzerland
Nico Bruining	Thoraxcenter, Department of Cardiology, Erasmus MC, Rotterdam, The Netherlands
Enrico Caiani	Electronics, Information and Bioengineering Department, Politecnico di Milano, Italy
Paul Dendale	Faculty of Medicine and Life Sciences, Hasselt University, Belgium
Friedrich Köhler	Medical Department of Cardiology and Angiology, Centre for Cardiovascular Telemedicine, Charité Universitätsmedizin, Berlin, Germany
Enno van der Velde	Department of Cardiology, Leiden University Medical Center (LUMC), The Netherlands
Marlien Varnfield	The Australian e-Health Research Centre, Health and Biosecurity, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia

FACULTY MEMBERS

Douwe Atsma	Leids Universitair Medisch Centrum, Leiden, The Netherlands
Martin Cowie	Imperial College London, United Kingdom
Paul Cummins	Erasmus MC University Medical Center, Rotterdam, The Netherlands
Joost Daemen	Erasmus MC University Medical Center, Rotterdam, The Netherlands
Ines Frederix	Jessa Hospital, Rotselaar, Belgium
Maurice Mars	University of Kwazulu-Natal, Durban, South Africa
Gianfanco Parati	University of Milano-Bicocca, Italy
Eva Piotrowicz	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

WHO ATTENDED THE 2016 CONGRESS ?



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 - Keynote lecture by Gunther EYSENBACH (Canada)

Chairpersons: Hugo SANER (Switzerland) - Enrico CAIANI (Italy)

INAUGURAL SESSION

Best practices and challenges for conducting and publishing eHealth research

10:00-10:30

Coffee break - Visit of the exhibition

10:30-12:00

Hall C - Advances in mobile health in healthcare delivery

MAIN SESSION

Chairpersons: Marlien VARNFIELD (Australia) - Maurice MARS (South Africa)

- ➔ Instant messaging and selfies: the future of telemedicine - Maurice MARS (South Africa)
- ➔ Innovative cardiac service in regional areas - Marlien VARNFIELD (Australia)
- ➔ Virtual cardiac emergency unit: the use of mobile technologies in acute cardiology - Ed DE KLUIVER (Netherlands)
- ➔ Novel mHealth prevention services within integrated care models - Julie REDFERN (Australia)

Hall A - elmaging: next generation of cardiovascular imaging

MAIN SESSION

Chairpersons: Nico BRUINING (Netherlands) - Roderick TRESKES (Netherlands)

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

Hall B - Beyond the pills - Drug therapy and digitalization

CROSS SESSION

Chairpersons: Friedrich KOEHLER (Germany) - Martin SCHULZ (Germany)

Representatives from:

- NOKIA TECH: Matthieu VEGREVILLE (France)
- NOVARTIS: Thomas HACH (Switzerland)
- ➔ The ADAM-Project - IT support to make drug therapy more safe - Daniel GRANDT (Germany)
- ➔ The patient perspective: current issues of adoption and effectiveness of digital patient interventions - Alexander SCHACHINGER (Germany)
- ➔ Discussion

12:00-12:45

Hall B - NOKIA TECH - Revolutionizing the prevention and the treatment of cardiovascular diseases with connected health devices

SYMPOSIUM

Hall C - COMARCH - NOMED AF: prevention and treatment of modern age heart diseases

SYMPOSIUM

12:00-13:00

Hall A - MEDTRONIC - Management of implantable cardiac devices in the digital era

SYMPOSIUM

12:45-13:30

Lunch break - Visit of the exhibition

13:30-15:00

Hall C - Multidisciplinary models of telecare - A joint session with



MAIN SESSION

Chairpersons: Marlien VARNFIELD (Australia) - Lis NEUBECK (United Kingdom)

- ➔ **Models of care that are personalized, integrated and synergize healthcare delivery** - Astrid VAN DER VELDE (Netherlands)
- ➔ **Text messaging system for medication adherence in cardiac rehabilitation patients in Iran** - Sahar KHONSARI (United Kingdom)
- ➔ **Telemonitoring: the role of the heart failure nurse** - Oliver DECKWART (Germany)
- ➔ **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)

Hall A - Young Investigator Awards

MAIN SESSION

Chairpersons: Enrico CAIANI (Italy) - Paul DENDALE (Belgium)

- ➔ **A proposal for a German nation-wide vaccination system: empowering patients through digital involvement** - Constanze KNAHL (USA)
- ➔ **Occlusion in anomalous coronary arteries: a parametric computer-based simulation** - Michele CONTI (Italy)
- ➔ **Effects of internet-based exercise training compared with supervised group exercise training in patients with type 2 diabetes: a randomized controlled study** - Buket AKINCI (Turkey)
- ➔ **ECG-derived expiration-triggered sinus arrhythmia is a strong risk predictor in survivors of acute myocardial infarction** - Alexander STEGER (Germany)
- ➔ **Exploring physical activity behavior, needs for and interest in a technology-delivered home-based exercise program among patients with intermittent claudication** - Nils CORNELIS (Belgium)
- ➔ **PPG versus single lead ECG for the diagnose of atrial fibrillation** - Thijs VANDENBERK (Belgium)

Hall B - Who owns my data?

MAIN SESSION

Chairpersons: Hugo SANER (Switzerland) - Enno T. VAN DER VELDE (Netherlands)

- ➔ **The legal position of data ownership in EU countries** - Jennifer CRAMA (Netherlands)
- ➔ **Who owns the data? Open data for healthcare** - Pending speaker
- ➔ **Patient data and the patient journey: who owns what?** - Douwe ATSMAN (Netherlands)
- ➔ **The standpoint of the European Society of Cardiology (ESC) on personal data protection** - Alan FRASER (United Kingdom)
- ➔ **Discussion**

15:00-15:30

Coffee break - Visit of the exhibition

15:30-17:00

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

MAIN SESSION

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

- ➔ **Ways to make the healthcare "Euro" go further - With digital** - Jos KRAAL (Netherlands)
- ➔ **Legal framework for the use of telemedical care in Europe** - Raf VAN GOETHEM (Belgium)
- ➔ **The impact of telehealthcare on the quality & safety of care** - Susannah McLEAN (United Kingdom)
- ➔ **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

MAIN SESSION

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

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



Thursday, November 9th

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

MAIN SESSION

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

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

17:00-18:00

Poster presentations - "Walk through with Host"

18:00-19:00

Networking cocktail on the exhibition

Friday, November 10th

08:30-10:00

Hall C - Innovations in telemonitoring for heart failure patients

MAIN SESSION

Chairpersons: Hugo SANER (Switzerland) - Ulf LANDMESSER (Germany)

- ➔ How to design a randomized controlled trial for telemonitoring in heart failure patients - Bridget-Anne KIRWAN (Switzerland)
- ➔ Telemonitoring based on atrial pressure - Friedrich KOEHLER (Germany)
- ➔ Requirements for telemedical centres aimed for the remote patient management of cardiological patients - the certification concept of the German Society of Cardiology - Thomas HELMS (Germany)
- ➔ New diagnostic parameter derived from standard smartphone for telemonitoring of HF-patients - Gerd HASENFUS (Germany)

Hall A - eIntervention and acute cardiac care: developments and applications

MAIN SESSION

Chairpersons: Nico BRUINING (Netherlands) - Joost DAEMEN (Netherlands)

- ➔ A self-examination device to shorten the patient's delay during STEMI: from idea to the first-in-men clinical trial - Peter GHEERAERT (Belgium)
- ➔ 3D-camera assisted detection of ECG electrode ("dis")-placement, can this help to detect ischemia in the ambulance? - Peter VAN DAM (Netherlands)
- ➔ A novel municipal networked cathlab data sharing system - Joost DAEMEN (Netherlands)
- ➔ Robot-assisted telestenting: a combination of robotics and telecommunicative percutaneous coronary interventions - Paul CUMMINS (Netherlands)

Hall B - Business models and solutions

CROSS SESSION

Chairpersons: Paul DENDALE (Belgium) - Ines FREDERIX (Belgium)

Representatives from:

- COMARCH: Bartosz PAMPUCH (Poland)
- IMPLICIT: Arnaud ROSIER (France)
- ➔ Expert tool as example for a business case - Karin CONINX (Belgium)
- ➔ Teleconsultation as a service - Mario HUYGHE (Belgium)
- ➔ Discussion

Friday, November 10th

10:00-10:30

Coffee break - Visit of the exhibition

10:30-12:00

Hall C - Update on studies for remote patient management for heart failure patients

MAIN SESSION

Chaipersons: Thomas HELMS (Germany) - Ewa PIOTROWICZ (Poland)

- ➔ **The MEMS-HF study** - Stephan ROSENKRANZ (Germany)
- ➔ **The TIM-HF II study** - Friedrich KOEHLER (Germany)
- ➔ **The REM-HF study** - John M. MORGAN (United Kingdom)
- ➔ **The CARDIOBBEAT study** - Heinz VOELLER (Germany)
- ➔ **Discussion**

Hall A - How to successfully design and deploy an eHealth solution?

MAIN SESSION

Chaipersons: Enrico CAIANI (Italy) - Britta BOECKMANN (Germany)

- ➔ **How to design an eHealth solution?** - Julia VAN GEMERT-PIJNEN (Netherlands)
- ➔ **Patient perspective in the design of an eHealth solution** - Trudie LOBBAN (United Kingdom)
- ➔ **Business models for eHealth, how to succeed** - Ruben CASADO ARROYO (Belgium)
- ➔ **Health technology assessment for eHealth solutions** - Francesco PETRACCA (Italy)

Hall B - ePublishing: navigating the expanding knowledge arena: new frontiers in science

CROSS SESSION

Chairpersons: Nico BRUINING (Netherlands) - Paul CUMMINS (Netherlands)

- ➔ **Don't wait. Making the move from the old in-print to the novel online platforms of accessible science** - Pascal MEIER (Switzerland)
- ➔ **How to maximize the highest visibility and impact of your scientific output** - Paul CUMMINS (Netherlands)
- ➔ **How to publish and maximize the impact of your ehealth research** - Gunther EYSENBACH (Canada)
- ➔ **Fundraising in the digital era** - Mark SCHUURING (Netherlands)
- ➔ **Discussion**

12:00-12:45

Hall A - PFIZER - AF detection: supportive approaches and tools

SYMPOSIUM

Hall B - HILBERT PARADOX - A global digital platform for cardiology professionals: demo and discussion

SYMPOSIUM

Hall C - VISIOMED - eHealth: beyond technology, a usability-centric experience

SYMPOSIUM

12:45-13:30

Lunch break - Visit of the exhibition

13:30-15:00

Hall C - eHealth in primary and secondary prevention of cardiovascular disease

MAIN SESSION

Chairpersons: Ines FREDERIX (Belgium) - Gianfranco PARATI (Italy)

- ➔ **Can we have confidence in oscillometric methods for non invasive measurement of blood pressure?** - Branko CELLER (Australia)
- ➔ **Telerehabilitation in hypertension: the TRiHYP study** - Véronique CORNELISSEN (Belgium)
- ➔ **Exercise-based cardiac telerehabilitation: can we have our cake and eat it too?** - Jonathan Charles RAWSTORN (Australia)
- ➔ **Cardiac telerehabilitation: the new kid on the block** - Harel KEMPS (Netherlands)



Friday, November 10th

13:30-15:00

Hall A - How big data could enhance clinical performance in cardiology?

MAIN SESSION

Chairpersons: Paul DENDALE (Belgium) - Mamas MAMAS (United Kingdom)

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

Hall B - Smartphones for cardiac monitoring: gadgets or clinical tools?

CROSS SESSION

Chairpersons: Enrico CAIANI (Italy), Roderick TRESKES (Netherlands)

Representatives from:

- VISIONED: François TEBOUL (France)
- PREVENTICUS: Thomas HUBNER (Germany)
- ➔ **Could accelerometers and gyroscopes detect changes in cardiac strain?** - Philippe VAN DE BORNE (Belgium)
- ➔ **Early detection of diseases using breath analysis: a myth or reality?** - Morad K. NAKHLEH (France)
- ➔ **Discussion**

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