European Congress on e-Cardiology & e-Health
Kursaal Bern | Switzerland
29 - 31 October 2014
www.e-cardiohealth.org

CONGRESS PROGRAMME

The e-Cardiohealth programme at your fingertips: www.e-cardiohealth.org - programme

Find the speaker list under: www.e-cardiohealth.org speaker list

THIS CONGRESS IS OFFICIALLY ENDORSED BY:

Meeting endorsed by EHRA, a Registered Branch of the ESC
Prof. Hugo Saner, MD - Congress Director
Preventive Cardiology & Sports Medicine at the University Clinic for Cardiology, University Hospital of Bern, Switzerland.

Ass. Prof. Nico Bruining, PhD
Erasmus Medical Center, Thoraxcenter / Cardiology, Rotterdam, The Netherlands, Member of the Nucleus of the ESC Working Group on e-Cardiology

Ass. Prof. Enrico Caiani, PhD
Researcher at the Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB), Milano, Italy

Catherine E. Chronaki
Secretary General, HL7 Foundation, Belgium; Member of the Nucleus of the ESC Working Group on e-Cardiology

Prof. Paul Dendale, MD
Head of the Department of Cardiology at the Jessa Hospital and Professor at the University of Hasselt, Belgium

Prof. Friedrich Koehler, MD
Head of the Centre for Cardiovascular Telemedicine, Charité - Universitätsmedizin Berlin, Germany

Prof. Goran Krstacic MD, PhD
Director of the Institute for Cardiovascular Diseases and Rehabilitation, Zagreb, Croatia. Professor of Cardiology at the University of Osijek; Chairperson-elect of the ESC Working Group on e-Cardiology

Prof. Marek Malik, MD, PhD, DSc, DSc (Med)
Professor of Cardiac Electrophysiology, Senior Research Investigator at Imperial College, London, UK. Chairperson of the ESC Working Group on e-Cardiology

Ewa Piotrowicz, MD
Head of the Telecardiology Center at the Institute of Cardiology in Warsaw, Poland

Panos Stafylas, MD, MSc, PhD
Cardiologist/Medical Coordinator of European eHealth projects

Enno T. van der Velde, PhD
Medical Physicist at the department of Cardiology, Leiden University Medical Center, Leiden, The Netherlands. Member (past chairman) of the nucleus of the ESC Working Group on e-Cardiology.

Ass. Prof. Matthias Wilhelm, MD
Head of Preventive Cardiology & Sports Medicine at the University Clinic for Cardiology, University Hospital of Bern, Switzerland.

Detlev Willemsen, MD
Schüchtermann-Klinik Bad Rothenfelde, Germany, Head of the Cardiac Rehabilitation

Univ. Prof. Dr. rer. nat. Bernhard Wolf
Head of the Heinz-Nixdorf-Chair of Medical Electronics, Department of Electrical Engineering and Information Technology, Munich, Germany
### PROGRAMME AT A GLANCE

#### WEDNESDAY - SWISSDAY 29/10/14

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>1. Chronic disease management with telemedicine &amp; e-Health</td>
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<tr>
<td></td>
<td>2. e-Health: The view of the clinicians</td>
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<tr>
<td>11:00 - 12:30</td>
<td>3. e-Health and telemedicine: Chances and challenges for the pharmacist</td>
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<td>4. e-Health and telemedicine in clinical practice</td>
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<tr>
<td>13:15 - 14:45</td>
<td>5. Mobile health - towards clinical application</td>
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<tr>
<td>15:15 - 16:45</td>
<td>6. Mobile health and its potential for prevention and health promotion</td>
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<td>(Health Promotion Switzerland)</td>
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<tr>
<td>17:00 - 18:30</td>
<td>7. How to use telemedicine to keep elderly people independent</td>
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<td>8. e-Health and telemedicine: The role of the government</td>
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#### THURSDAY 30/10/14

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>9. Inaugural Session International Congress</td>
</tr>
<tr>
<td>11:00 - 12:30</td>
<td>10. Telerehabilitation in cardiovascular care</td>
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<td>11. Remote electrocardiographic recordings and analysis</td>
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<tr>
<td>13:15 - 14:45</td>
<td>12. Telemedicine in chronic disease management</td>
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<td>13. Contributions of telemedicine to reduce the burden of stroke</td>
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<td>Start-up presentations 1</td>
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<tr>
<td>15:15 - 16:45</td>
<td>14. Telemedicine in chronic disease management - various applications</td>
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<td>15. Telemonitoring in cardiac device therapy</td>
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<td>Start-up presentations 2</td>
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<tr>
<td>17:00 - 18:00</td>
<td>16. Big data in healthcare: A computer science perspective?</td>
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<td>17. New developments in remote monitoring of patients with devices</td>
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<td>Discussion Forum: Safety &amp; privacy in telerehabilitation</td>
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#### FRIDAY 31/10/14

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>18. Challenges in e-Cardiology</td>
</tr>
<tr>
<td></td>
<td>19. Emerging role of telemedicine in cardiac rehabilitation - oral</td>
</tr>
<tr>
<td></td>
<td>abstract presentations</td>
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<td></td>
<td>20. Telemedicine and mobile / online health application - Cardiac Imaging</td>
</tr>
<tr>
<td>11:00 - 12:30</td>
<td>21. Telemedicine and mobile / online health applications: Evaluation</td>
</tr>
<tr>
<td></td>
<td>of mobile apps for cardiology</td>
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<tr>
<td></td>
<td>22. Research &amp; Methodology in Telemedicine</td>
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<tr>
<td>13:15 - 14:45</td>
<td>23. Joint Session with HFA: Overcoming barriers in implementing exercise</td>
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<td>training in HF: is e-Health a solution?</td>
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<td></td>
<td>24. Telemedicine - clinical applications</td>
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<td>15:15 - 16:45</td>
<td>25. Transforming the patient experience with telehealth in Europe:</td>
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<td>focus on new health care service models</td>
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<td>26. Towards interoperable health record summaries</td>
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</tbody>
</table>
From 08:00 - 13:30 REGISTRATION

2 parallel sessions 9:00 - 10:30:

09:00 - 10:30 Bellavista 5

SESSION 1: CHRONIC DISEASE MANAGEMENT WITH TELEMEDICINE & e-HEALTH
Chairpersons: M. Wilhelm, A. Hoffmann

09:00 Swiss Heart Coach - current state and expectations
A. Hoffmann, University of Basel | Switzerland

09:20 Chronic Care Management - promises and challenges
M. Bethke, Medgate, Basel | Switzerland

09:40 The 5 pitfalls to be avoided when implementing an e-Health solution for diabetes management - an industry view
P. Jäggi, Roche Diagnostics, Rotkreuz | Switzerland

10:00 eMedication and Shared Care Plan for complex patients
U. Stromer, Business Unit eHealth, CH Post AG | Switzerland

10:30 - 11:00 COFFEE BREAK Bellavista 2/3

SESSION 2: e-HEALTH: THE VIEW OF THE CLINICIANS
Chairpersons: D. Aronsky, H. Saner

09:00 Interoperability and connectivity: Essential components in e-Health and telemedicine
J. Bleuer, Healthevidence GmbH, Bern | Switzerland

09:20 Public Health and Telemedicine: The view of the Canton Bern
J. von Overbeck, Gesundheits- und Fürsorgedirektion des Kanton Bern | Switzerland

09:40 Added value of computer-based decision support
D. Aronsky, ii4sm, Basel | Switzerland

10:00 Big Data: Time to Remodel Diagnostic Paths
A. Leichtle, University Hospital Bern, Bern | Switzerland

10:30 - 11:00 COFFEE BREAK Bellavista 2/3

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS
### SESSION 3: e-HEALTH & TELEMEDICINE: CHANCES AND CHALLENGES FOR THE PHARMACIST

**Chairpersons:** H. Saner, G. Spinas

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
<th>Country</th>
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</thead>
<tbody>
<tr>
<td>11:00</td>
<td>e-Prescription - a building block long overdue</td>
<td>C. Köpe, Galenica AG, Bern</td>
<td>Switzerland</td>
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<tr>
<td>11:40</td>
<td>Diabetes &amp; e-Health</td>
<td>S. Mougiakakou, ARTORG, University of Bern</td>
<td>Switzerland</td>
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<tr>
<td>12:00</td>
<td>Diabetes, arterial hypertension and lifestyle control: just around the corner?</td>
<td>D. Rhyner, University of Bern</td>
<td>Switzerland</td>
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<tr>
<td>12:15</td>
<td>Keep In Touch – mHealth Solutions for the Management of Chronic Diseases</td>
<td>D. Hayn, AIT Austrian Institute of Technology, Graz</td>
<td>Austria</td>
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#### 11:00 - 12:30

**SESSION 4: e-HEALTH & TELEMEDICINE IN CLINICAL PRACTICE**

**Chairperson:** C. Brockes

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
<th>Country</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Teleconsultation in vascular surgery: a 13 year single centre experience</td>
<td>C. Schmidt, University Hospital Zürich</td>
<td>Switzerland</td>
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<tr>
<td>11:25</td>
<td>Online-Consultation for psychiatric problems</td>
<td>S. Weidt, University Hospital Zürich</td>
<td>Switzerland</td>
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<tr>
<td>11:50</td>
<td>LILA - long independent living assistant</td>
<td>S. Schmidt-Weitmann, University Hospital Zürich</td>
<td>Switzerland</td>
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<tr>
<td>12:15</td>
<td>Panel Discussion</td>
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#### 12:30 - 13:15 LUNCH BREAK

### SESSION 5: MOBILE HEALTH - TOWARDS CLINICAL APPLICATION

**Chairpersons:** H. Saner, A. Hoffmann

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>13:15</td>
<td>Introduction</td>
<td>H. Saner, University Hospital Bern</td>
<td>Switzerland</td>
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<tr>
<td>13:20</td>
<td>Swisscom and mobile health in the Swiss healthcare system</td>
<td>S. Santinelli, Head of Health Swisscom AG, Zürich</td>
<td>Switzerland</td>
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<tr>
<td>13:50</td>
<td>Mobile health in the pharmacy</td>
<td>S. Wild, CEO TopPharm, Münchenstein</td>
<td>Switzerland</td>
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<tr>
<td>14:15</td>
<td>Mayo Clinic research shows cardiac rehab patients who use smartphone app recover better</td>
<td>A. Lerman, Mayo Clinic Minnesota</td>
<td>USA</td>
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<tr>
<td>14:40</td>
<td>Panel Discussion</td>
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WEDNESDAY 29 OCT. 2014

14:45 - 15:15 COFFEE BREAK

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

15:15 - 16:45

SESSION 6: MOBILE HEALTH AND ITS POTENTIAL FOR PREVENTION AND HEALTH PROMOTION

Chairpersons: T. Mattig, M. Brauchbar

15:15 Current trends in mobile health and prevention - market drivers and business models
S. Frey, Institute for Communication and Leadership, Lucerne | Switzerland

15:40 Mobile health applications in integrated primary health care setting
M. Denz, Swiss Association for Telemedicine and eHealth, Lucerne | Switzerland

16:05 Improving health through citizen participation and citizen control
E. Hafen, Institut für Molekulare Systembiologie, ETH Zurich | Switzerland

16:30 Panel Discussion

2 parallel sessions 17:00 - 18:30:

17:00 - 18:30

SESSION 7: HOW TO USE TELEMEDICINE TO KEEP ELDERLY PEOPLE INDEPENDENT

Chairpersons: P. Friedrich, S. Schmidt-Weitmann

17:00 Cost savings and ethical concern in a monitoring system in private home environment
G. Du Pasquier, Domo Safety, Lausanne | Switzerland

17:25 Activity of daily living recognition in the patient’s home
T. Nef, ARTORG Center for Biomedical Engineering Research, Bern | Switzerland

17:55 Third Age Online
T. Gehrig, Bern University of Applied Sciences | Switzerland

18:20 Panel Discussion

SESSION 8: e-HEALTH AND TELEMEDICINE - THE ROLE OF THE GOVERNMENT

Chairperson: S. von Greyerz

17:00 The e-Health agenda of the Swiss government
S. von Greyerz, Federal Office of Public Health, Bern | Switzerland

17:25 The future of mHealth in Switzerland
D. Wickinghoff, FHS St. Gallen | Switzerland

17:50 Panel Discussion

15:15 - 16:45

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D. Wickinghoff, FHS St. Gallen | Switzerland

17:50 Panel Discussion
THURSDAY 30 OCT. 2014

FROM 08:00 - 13:30 REGISTRATION

09:00 - 10:30

SESSION 9: INAUGURAL SESSION INTERNATIONAL CONGRESS
Chairpersons: H. Saner (CH), M. Malik (UK)

09:05  The physics behind the art
G. Aeppli, Center for Nanotechnology, London | UK; Prof. EPFL Lausanne; Director of
SYN - Paul Scherrer Institute | Switzerland

09:25  Don't be a memory stick: Programming learning for school children
A. Repenning, Prof. for Informatics at the University of Colorado | USA;
First Professor for Informatics in Schools of the PH - FHNW Switzerland

09:50  Potential of big data for e-Health and telemedicine
M. Grossglauser, Prof. School for Computer Sciences, EPFL Lausanne | Switzerland

10:10  e-Health and telemedicine: Current situation and future challenges
H. Saner, Prof. Clinic for Cardiology, University Hospital Bern | Switzerland

10:30 - 11:00 COFFEE BREAK

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

2 parallel sessions 11:00 - 12:30:

11:00 - 12:30

SESSION 10: TELEREHABILITATION IN CARDIOVASCULAR CARE
Chairpersons: P. Dendale (B), F. Köhler (DE)

11:00  Telerehabilitation in heart failure
E. Piotrowicz, Institute for Cardiology, Warsaw | Poland

11:20  Telerehabilitation in hypertension treatment
V. Cornelissen, KU Leuven | Belgium

11:40  Telerehabilitation in patients with coronary artery disease
H. Kemps, Maxima Medisch Centrum, Eindhoven | The Netherlands

12:00  Telerehabilitation: state-of-the-art
I. Frederix, University of Hasselt | Belgium

12:20  Panel Discussion

11:00 - 12:30

SESSION 11: REMOTE ELECTROCARDIOGRAPHIC RECORDINGS AND ANALYSIS
Chairpersons: M. Malik (UK), E. Caiani (I)

11:00  Present use of ambulatory holter recordings
R. Sassi, University of Milano, Milano | Italy

11:20  ECG recording by smartphone applications
E. Caiani, Polytechnic University of Milano, Milano | Italy

11:40  Wearable ECG patch
L. Grieten, Ziekenhuis Oost-Limburg, Genk | Belgium

12:00  A miniature MEMS only based method of detecting atrial fibrillation
T. Koivisto, University of Turku, Turku | Finland

12:20  Panel Discussion
THURSDAY 30 OCT. 2014

12:30 - 13:15 LUNCH BREAK

POSTER SESSION

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

3 parallel sessions 13:15 - 14:45:

13:15 - 14:55 Mezzo 1

SESSION 12: TELEMEDICINE IN CHRONIC DISEASE MANAGEMENT
Chairpersons: E. Piotrowicz (PL), G. Krstacic (HR)

13:15 Rehabilitation’s aftercare by COMES©
B. Neumann, Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich | Germany

13:35 Telemedicine System for the Early Recognition of Lung Infections in COPD Patients
M. Gül, Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich | Germany

13:55 A compact all-in-one medical device of telemonitoring
J. Clauss, Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich | Germany

14:15 SmartSenior - Intelligent services for senior citizens
M. Balasch, Deutsche Telekom AG, Berlin | Germany

14:40 Panel Discussion

13:15 - 14:45 Bellavista 5

SESSION 13: CONTRIBUTIONS OF TELEMEDICINE TO REDUCE THE BURDEN OF STROKE
Chairpersons: C. Chronaki (GR), E. van der Velde (NL)

13:15 Importance of early recognition of atrial fibrillation for stroke prevention
H. Saner, University Hospital Bern | Switzerland

13:40 Remote monitoring of cardiac devices; today and in the future
H. Westendorp, Medtronic, Tolochenaz | Switzerland

14:05 The use of Reveal Linq and Carelink in clinical practice
J. Steffel, University Hospital Zurich | Switzerland

14:30 Panel Discussion

13:15 - 14:45 Bellavista 4

START-UP PRESENTATIONS 1
Chairperson: M. Grossglauser (CH)

13:15 seantis gmbh
F. Reinhard, seantis gmbh, Lucerne | Switzerland

13:45 DermoSafe SA
P. Held, DermoSafe SA, Coreseaux | Switzerland

14:15 1Drop Diagnostics
L. Gervais, 1Drop Diagnostics, Neuchâtel | Switzerland
SESSION 14: TELEMEDICINE IN CHRONIC DISEASE MANAGEMENT - VARIOUS APPLICATIONS
Chairpersons: D. Willemsen (DE), P. Dendale (B)

15:15 A teledental tooth splint for therapy of tooth grinding
J. Clauss, Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich | Germany

15:35 Hypertension and teledental feedback therapy
P. Friedrich, University of Applied Sciences Kempten | Germany

15:55 Long-term apoplexy therapy with telematics rehabilitation
K. Hinderer, University of Applied Sciences Kempten | Germany

16:10 PUMA - Prevention and motivation in obesity
P. Friedrich, University of Applied Sciences Kempten | Germany

16:35 Panel Discussion

SESSION 15: TELEMONITORING IN CARDIAC DEVICE THERAPY
Chairpersons: J. Fuhrer (CH), M. Wilhelm (CH)

15:15 Remote monitoring of patients with cardiac implantable devices: Technical considerations
E. van der Velde, Leiden University Medical Center, Leiden | The Netherlands

15:40 Remote monitoring of cardiac implantable devices: Is the clinical benefit worth the investment?
H. Burri, University Hospital of Geneva | Switzerland

16:05 Remote monitoring of cardiac implantable devices: What advances might be proposed?
M. Malik, Imperial College London | United Kingdom

16:30 Panel Discussion

START-UP PRESENTATIONS 2
Chairperson: H. Saner (CH)

15:00 Diabird GmbH
D. Vasanthan, Diabird GmbH, Zürich | Switzerland

15:30 E-Medicus GmbH
Y. Nordmann, E-Medicus GmbH, Basel | Switzerland

16:00 Domo Safety
G. Du Pasquier, Domo Safety SA, Lausanne | Switzerland

16:30 Qloudlab
A. Queval, Qloudlab, Lausanne | Switzerland
THURSDAY 30 OCT. 2014

3 parallel sessions 17:00 - 18:00:

17:00 - 18:00  Mezzo 1

SESSION 16: BIG DATA IN HEALTHCARE: A COMPUTER SCIENCE PERSPECTIVE?
Chairpersons: M. Grossglauser (CH), H. Saner (CH)

17:00  Big Data: Opportunities and limitations
M. Grossglauser, EPFL, Lausanne | Switzerland

17:20  Privacy challenges in personalized medicine
J.-P. Hubaux, EPFL, Lausanne | Switzerland

17:40  Difficulties in dealing with stroke in India and what can we do about it?
E. Khan, EPFL, Lausanne | Switzerland

17:00 - 18:00  Bellavista 5

SESSION 17: NEW DEVELOPMENTS IN REMOTE MONITORING OF PATIENTS WITH DEVICES
Chairpersons: C. Chronaki (GR), E. van der Velde (NL)

17:00  New insights into the logistic process around remote monitoring of patients with implantable devices
M. J. Schalij, Leiden University Medical Center, Leiden | The Netherlands

17:20  Workflow, time and patient acceptance and satisfaction - The role of allied professionals
L. Morichelli, San Filippo Neri Hospital, Rome | Italy

17:40  Data exchange between remote monitoring systems, programmers and the Electronic Health Record: standards and present status of implementation
E. van der Velde, Leiden University Medical Center, Leiden | The Netherlands

17:00 - 18:00  Bellavista 4

DISCUSSION FORUM

SAFETY AND PRIVACY IN TELEREHABILITATION, HOW AND WHAT TO MONITOR, HOW TO GIVE FEED-BACK
Chairpersons / Moderators: E. Piotrowicz (PL), P. Dendale (B)

17:00 - 18:00 Discussion Forum

18:00  Szenario

NETWORKING & SOCIAL EVENT

THE NETWORKING GET-TOGETHER IS FREE TO ATTEND AND OPEN TO ALL CONGRESS PARTICIPANTS. ENJOY A DRINK AND LISTEN TO JAZZ MUSIC BY OLTEN SÜDWEST JAZZBAND WITH CONGRESS DIRECTOR PROF. HUGO SANER AT THE DRUMS.
### Session 18: Challenges in e-cardiology

**Chairpersons:** C. Chronaki (GR), G. Krstacic (HR)

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution and Location</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Assessing health by complexity analysis of cardiovascular signals</td>
<td>P. Castiglioni, IRCCS Fondazione Don Carlo Gnocchi, Milano</td>
<td>Italy</td>
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<tr>
<td>09:20</td>
<td>Asymmetry of cardiovascular time series and its clinical value</td>
<td>P. Guzik, Poznan University of Medical Sciences, Poznan</td>
<td>Poland</td>
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<tr>
<td>09:40</td>
<td>Beat-to-beat assessment of cardiac intervals by wearable seismography in sleep and ambulant subjects</td>
<td>M. Di Rienzo, IRCCS Fondazione Don Carlo Gnocchi, Milano</td>
<td>Italy</td>
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<tr>
<td>10:00</td>
<td>Acute coronary syndrome register - future challenges</td>
<td>I. Heim, Institute for Cardiovascular Prevention and Rehabilitation, Zagreb</td>
<td>Croatia</td>
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<tr>
<td>10:20</td>
<td>Panel Discussion</td>
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### Session 19: Emerging role of telemedicine in cardiac rehabilitation - oral abstract presentations

**Chairpersons:** P. Dendale (B), M. Willemsen (DE)

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<tr>
<td>09:00</td>
<td>Remote physical activity coaching in patients with coronary artery disease</td>
<td>J. Kraal, Academisch Medisch Centrum, Amsterdam</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>09:20</td>
<td>Telerehabilitation in coronary artery disease (TRIC-Study), 3 Months Data</td>
<td>K. Wallner, SKA-RZ Grossgmain PVA, Grossgmain</td>
<td>Austria</td>
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<tr>
<td>09:40</td>
<td>A technological solution for cardiac rehabilitation and secondary prevention</td>
<td>S. Guillén, Technologies for Health and Wellbeing S.A., Paterna, Valencia</td>
<td>Spain</td>
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<tr>
<td>10:00</td>
<td>Skype and Tele-ECG in Control of Home-based Exercise Training after planned PCI - a useful tool?</td>
<td>A. Doletsky, I.M. Sechenov First Moscow State Medical University, Moscow</td>
<td>Russia</td>
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<tr>
<td>10:20</td>
<td>Panel Discussion</td>
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### Session 20: Telemedicine and mobile online health application - cardiac imaging

**Chairpersons:** N. Bruining (NL), C. Deluigi (CH)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution and Location</th>
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</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Cardiovascular imaging on mobile devices - Is it feasible?</td>
<td>N. Bruining, Erasmus Medical Center, Rotterdam</td>
<td>Netherlands</td>
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<tr>
<td>09:25</td>
<td>Which cardiovascular images do we need to access everywhere?</td>
<td>F. Plank, Innsbruck Medical University, Innsbruck</td>
<td>Austria</td>
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<tr>
<td>09:50</td>
<td>What do we need to create a cloud-based cardiovascular imaging environment?</td>
<td>S. de Winter, Erasmus Medical Center, Rotterdam</td>
<td>Netherlands</td>
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<tr>
<td>10:15</td>
<td>Panel Discussion</td>
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FRIDAY 31 OCT. 2014

10:30 - 11:00 COFFEE BREAK

POSTER SESSION

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

2 parallel sessions 11:00 - 12:30:

11:00 - 12:30  Mezzo 1

SESSION 21: TELEMEDICINE AND MOBILE / ONLINE HEALTH APPLICATIONS:
EVALUATION OF MOBILE APPS FOR CARDIOLOGY

Chairpersons: E. Caiani (I), H. Saner (CH)

11:00  Traffic light-based classification of mobile apps in cardiology
       F. Pinciroli, Polytechnic University of Milano, Milano | Italy

11:15  Measuring usability of mobile applications
       U. Albrecht, Hannover Medical School, Hannover | Germany

11:30  A review and framework for development and evaluation of mobile technology for
       cardiac rehabilitation
       M. Varnfield, Australian e-Health Research Centre / CSIRO Brisbane | Australia

11:45  The EU regulatory framework for mHealth
       F. Cantone, Italy Legal Focus - Studio legale Bernascone & Soci, Milano | Italy

12:00  Regulation for mHealth applications: the developers point of view
       M. Wrigley, Application Developers Alliance, London | United Kingdom

12:15  Panel Discussion

11:00 - 12:30  Bellavista 5

SESSION 22: RESEARCH & METHODOLOGY IN TELEMEDICINE

Chairpersons: F. Köhler (DE), G. Krstacic (HR)

11:00  Specific methodological problems in the design of RCT for telemedicine
       F. Köhler, Charité Universitätsmedizin Berlin | Germany

11:25  Practical Aspects of cost assessment in telemedicine
       S. Resch, Siemens, Erlangen | Germany

11:50  Research from health status in a changing climate - implications for telemedicine
       C. Witt, Charité Universitätsmedizin Berlin | Germany

12:15  Panel Discussion

12:30 - 13:15 LUNCH BREAK

POSTER SESSION

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS
FRIDAY 31 OCT. 2014

2 parallel sessions 13:15 - 14:45:

13:15 - 14:45                  Mezzo 1

JOINT SESSION WITH HFA
SESSION 23: OVERCOMING BARRIERS IN IMPLEMENTING EXERCISE TRAINING IN HF: IS e-HEALTH A SOLUTION?
Chairpersons: H. Saner (CH), F. Köhler (DE)

13:15  Exercise training in HF: Opportunities and limitations
M. Piepoli, Guglielmo da Saliceto Hospital, Piacenza | Italy

13:35  What is the potential for e-Health? Evidence from Clinical Trials
E. Piotrowicz, Institute of Cardiology Warsaw | Poland

13:55  What are the main obstacles to e-Health: Patients, clinicians, managers or judges?
P. Dendale, University of Hasselt | Belgium

14:15  Major technical advances in developing e-Health practice
S. Zannoli, SparkBio, Bologna | Italy

14:35  Panel Discussion

13:15 - 14:45                  Bellavista 5

SESSION 24: TELEMEDICINE - CLINICAL APPLICATIONS
Chairpersons: N. Bruining (NL), P. Stafylas (B)

13:15  Evaluation of an individual heart rate model to estimate heart rate during outdoor walking, based on stress test result and measurable context information such as GEO position and barometric pressure
F. Müller-von Aschwege, OFFIS - Institute for Information Technology, Oldenburg | Germany

13:35  Gamification in endurance sports - Possible use in coronary secondary prevention to increase motivation and compliance
H. Simsek and M. Pantförder, TU Dortmund University, Dortmund | Germany

13:55  MART Munich Arterial Hypertension Register Telemedicine
M. Middeke, Hypertension Centre Munich, Munich | Germany

14:15  Clinical experiences with a mobile diet logging application
I. Kosa, University of Pannonia, Veszprém | Hungary

14:35  Panel Discussion

14:45 - 15:15 COFFEE BREAK                  Szenario

POSTER SESSION

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS
SESSION 25: Transforming the patient experience with telehealth in Europe: Focus on new health care service models
Chairpersons: I. Findlay (UK), P. Stafylas (B)

15:15 From evidence to decision making
P. Stafylas, United4Health, HiM SA, Belgium

15:35 Scaling up good practices in the management of patients with chronic heart failure
M. Taborsky, Palacky University, Olomouc, Czech Republic

15:55 Diabetes: Applying evidence-based medicine in telehealth
G. Dafoulas, e-Trikala SA, Greece

16:15 The past and the future of telemedicine in patients with chronic obstructive pulmonary disease
C. Zamarron, University of Santiago de Compostella | Spain

16:35 Panel Discussion

SESSION 26: TOWARDS INTEROPERABLE ELECTRONIC HEALTH RECORD SUMMARIES
Chairpersons: C. Chronaki (GR), R. Vander Stichele (B)

15:15 High quality clinical documentation and audit of patients summaries in heart failure
S. Hardman, The Whittington Hospital NHS Trust, London | United Kingdom

15:30 Ontological brokers between alternative representations of EHR summaries in HF
C. Martinez, Medical University of Graz | Austria

15:45 Importance of clinical engagement in good practice content for health record in cardiovascular shared care
R. Vander Stichele, SemanticHealthNet, Gent | Belgium

16:00 Cost benefit assessment for investments in interoperable HF representations
V. Stroetmann, empirica Communication & Technology Research, Bonn | Germany

16:15 Bridging electronic health record summaries across health systems and countries: Is it feasible?
C. Chronaki, HL 7 Foundation, Brussels | Belgium

16:30 Panel Discussion
Abstracts are published and can be downloaded from the congress website www.e-cardiohealth.org

The e-Cardiology & e-Health Congress Committee congratulates all authors of the accepted abstracts for the congress.

**EXERCISE TRAINING / CARDIAC REHABILITATION**

1. Effects of Home-Based Training with Telemonitoring Guidance in Low to Moderate Risk Patients Entering Cardiac Rehabilitation; preliminary results of the FIT@Home Study
J Kraal, N.Peek, M.E. van den Akker-Van Marle, H.M.C. Kemps | Academisch Medisch Centrum, Amsterdam, The Netherlands

2. MART Munich Arterial Hypertension Register Telemedicine
M Middeke, G Eisele, F Goss, E Neiböck-Huber | Hypertension Centre Munich, Germany

C Suchy (1), L Massen (1), S Schwarz (1), M Dinic (1), A Duvinage (1), A Pressler (1), C Vrints (2), A Linke (3), V Adams (3), B Pieske (4), U Wisløff (5), M Halle (1,6,7) | (1) Department of Prevention, Rehabilitation and Sports Medicine, Technische Universität München, Munich, Germany | (2) Department of Cardiology, University Hospital Antwerp, Antwerp, Belgium | (3) Department of Cardiology, Heart Center Leipzig, Leipzig, Germany | (4) Department of Cardiology, Medical University of Graz, Graz, Austria | (5) Department of Circulation and Medical Imaging and KG Jebsen Center for Exercise in Medicine Norwegian University of Science and Technology, Trondheim, Norway | (6) Munich Heart Alliance, Deutsches Zentrum für Herz-Kreislauf-Forschung e. V., Munich, Germany | (7) Else Kröner-Fresenius-Zentrum, Klinikum rechts der Isar, Technische Universität München, Munich, Germany

4. Skype and Tele-ECG in Control of Home-based Exercise Training After Planned PCI – a Useful Tool?
A Doletsky, DA Andreev, VV Martynova, AV Svet | First Moscow State Medical University, Russia

5. A technological solution for cardiac rehabilitation and secondary prevention
S Guillén (1), I Basagoiti (1), E Dalli (2), R Serafin (1) | (1) TSB S.A., Valencia, Spain | (2) Hospital Arnau de Vilanova, Valencia, Spain

6. Gamification in Endurance Sports - Possible Use in Coronary Secondary Prevention to Increase Motivation and Compliance
H Krumm (1), Hasan Simsek (1), Michael Pantförder (1), Benjamin Dirkes (1), Krystian Kensy (1), Evgenij Kremer (1), Lukas Pradel (1), Michael Freimuth (1), Patrick Baron (1), Sebastian Drabik (1), Theo Schnitzler (1), Thomas Richter (1), Wetscheslaw Lipp (1), Oliver Dohndorf (1), Heiko Krumm (1), Jan-Dirk Hoffmann (2), Anke Wookowski (2), Detlev Willemens (2) | (1) Lehrstuhl Informatik IV, TU Dortmund University, Otto-Hahn-Straße 16, 44227 Dortmund, Germany | (2) SchUCHtermann-Schiller'sche Kliniken, 49214 Bad Rothenfelde, Germany

7. Home based telemonitoring using mobile phone technology as an alternative to face-to-face rehabilitation approaches
E Vataman (1), V Anestiadi (2), A Railean (2) | (1) Institute of Cardiology, Chisinau, Republic of Moldova | (2) Dekart ATM, Chisinau, Republic of Moldova

8. Integrative Telerehabilitation Strategy after Acute Coronary Syndrome
E Dalli (1), S Guillén (2), I Basagoiti (2), J Horta (1), L Penalver (1), J L Marqués (3), C Bonanad (4) | (1) Hospital Arnau de Vilanova, Valencia, Spain | (2) TSB S.A., Valencia, Spain | (3) Hospital Universitario La Fe, Valencia, Spain | (4) Hospital Clínico Universitario, Valencia, Spain
9. Telerehabilitation In Coronary Artery Disease (TRIC-Study), 3 Months Data
K Wallner, J Altenberger, S Klausriegler, B Kogler, I Mairinger, R Müller, R Rieder, H Zauner | SKA-RZ Großgmain PVA, Germany

10. Rehabilitation's Aftercare by COMES®
T Spittler, D Potlterauer, P Friedrich, B Wolf | Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich, Germany

11. Long-term Apoplexy Therapy with Telematic Rehabilitation
KU Hinderer, P Friedrich, O Höbel, B Wolf | University of Applied Sciences Kempten, Germany

12. A Patient-Specific Cloud-Based Application for Post-Discharge Assistance for Patients with Myocardial Infarction
B Kirn, S Kokalj, A Mlekuz | Research and development, Primarius curando instructio d.o.o, Ljubljana, Slovenia

LIFESTYLE / CARDIOVASCULAR RISK FACTOR INTERVENTIONS

13. Predictors of Coronary Heart Disease Patients' Usage of a Web-based Intervention Aimed at Lifestyle Change. Results from lebensstil-aendern.de
R Schweier (1), M Romppel (2), C Richter (3), G Grande (2) | (1) Leipzig University of Applied Sciences (HTWK Leipzig) | (2) Institute for Public Health and Nursing Research, Department Prevention and Health Promotion, Faculty 11: Human and Health Sciences, University of Bremen, Germany | (3) Faculty of Architecture and Social Sciences, Leipzig University of Applied Sciences (HTWK Leipzig), Germany

14. Smartphones, Computer Vision, Artificial Intelligence, and their Application to Carbohydrate Counting
S Mougiakakou, M Anthimopoulos, J Dehais, S Shevchik, R Botwey, PA Fiave, D Duke, A Greenburg, P Diem | ARTORG Center for Biomedical Engineering Research, University of Bern, Switzerland

15. Clinical Experiences with a Mobile Diet Logging Application
I Kósa, I Vassányi, B Pintér, M Nemes, R Tamás, L Kohut | University of Pannonia, Veszprém, Hungary

16. Integrating Telemedicine Systems with Active Learning Solutions
L Lorenzi (1), F Mattivi (1), J Malacarne (1), F Melgani (2) | (1) Keynet, Italy | (2) University of Trento, Italy

ECG / ARRHYTHMIA DETECTION / SURVEILLANCE

17. The Revealing timely ECG changes Decreases the Likelihood of Undesirable Cardiac Events-Trial (REDUCE-Trial)
M Deeg, N Govinder, M Riemenschneider, B Schwagten, G van Langenhove | Personal MedSystems GmbH, Germany

18. A Miniature MEMS Only Based Method of Detecting Atrial Fibrillation
T Koivisto, M Pänkälä, T Hurnanen, T Vasankari, T Kiviniemi, A Saraste, J Airaksinen | University of Turku, Finland

19. ECG-Home Project
A Noack, R Göricke | Fraunhofer Institut for Photonic Microsystems, Dresden, Germany

20. Cardiometry: New Capabilities in Telecardiology
M Rudenko, V A Zemov, O K Voronova | Russian New University, Moscow, Russia

21. Microvoltage Variability Of Isoelectric Segments In High Resolution 3-Axial ECG Recording Of Healthy Volunteers: Age & Gender Characteristics
V Baraban, S Calosevic, S Kurbel, R Steiner, S Maric | Osijek University Hospital & Osijek Medical Faculty, Osijek, Croatia
22. ECG Signal Transmission via GSM Channel: Assessment of the GMSK Modulation Effects

S A Chouakri, S E Arous, A Taleb-Ahmed | Laboratoire de Télécommunications et Traitement Numérique du Signal, University of Sidi Bel Abbes, Algeria

23. Development of TeleECG in Indonesia Health Services: Urban Area

A Setiawan, L Goerimanto, N Utami, R Mengko | Research Division on Biomedical Engineering, School of Electrical Engineering & Informatics, Institut Teknologi Bandung, Indonesia

TELEMEDICINE IN CHRONIC DISEASE

24. A Compact All-in-One Medical Device for Telemonitoring

J Clauss, B Wolf | Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, TU-München, Germany

25. A Telemedical Tooth Splint for Therapy of Tooth Grinding

J Clauss, B Wolf | Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, TU-München, Germany

26. Telemedicine in Chronic Heart Failure: Patient Selection is a Prerequisite for Success

M Middeke, F Goss | Hypertoniezentrum und Herzzentrum Alter Hof, München, Germany

27. Disease Specific Requirements for Telehealth in Chronic Diseases – Experiences from 10 Years of Mobile Health (mHealth) in Austria

D Hayn, R Modre-Osprian, P Kastner, J Morak, G Schreier | AIT Austrian Institute of Technology, Graz, Austria

MISCELLANEOUS TOPICS

28. Big Data: Time to Remodel Diagnostic Paths; A Leichtle (1), Z Liniger (2), G Lindner (3), GM Fiedler (2) | (1) Center of Laboratory Medicine, University Institute of Clinical Chemistry, Inselspital - Bern University Hospital, Bern, Switzerland | (2) University Center of Laboratory Medicine, Inselspital - Bern University Hospital, Bern, Switzerland | (3) Clinic for Emergency Medicine, Inselspital - Bern University Hospital, Bern, Switzerland

29. Telemedicine Network for Collaborative Diagnosis and Care of Heart Malformations

A Taddei | Fondazione Toscana Gabriele Monasterio, Italy

30. Is the Russian populace ready for the mobile health (mHealth) based services implementation?

D Komkov, I Zhmakin, V Krasnenkov, I Petrukhin, N Kirilenko, S Boytsov | State Research Center for Preventive Medicine, Moscow, Russia

31. Patients awareness level of the present telemedical opportunities in a Cardiology Department from Romania; M Raileanu, S Busnatu, C Sinescu | University of Medicine and Pharmacy “Carol Davila” Bucharest, “Bagdasar Arseni” Emergency Clinical Hospital, Romania

32. Operation of therapeutic hypothermia protocol in patients after reversal of cardiac arrest with support teleconsultation from a referral hospital

A Vellozo Caluza, A H Vicente Andrade, C A Cordeiro de Abreu Filho, R Albaladejo Morbeck, R Guilherme Rodrigues Cal, M Steinman, J C Terra | HIAE- Hospital Israelita Albert Einstein, Sao Paulo, Brasil

33. Stairclimbing Wheelchair and its Possibilities for Telematic Monitoring

M Häcker, P Friedrich, B Wolf | University of Applied Sciences Kempten, Germany

34. Telemonitoring of Patients using Machine to Machine Connectivity Aware Solution

A Corici, S Busnatu, C Chera, C Sinescu, A Elmangosh, A Al-Hezmi | Fraunhofer FOKUS Institut, Berlin, Germany

35. Atrial Fibrillation & Bleeding Risk Calculator; R. Fernandes Branco, S Wismann, I Diaz Ramirez, C Melzer, G Baumann, F Köhler | Charité Universitätsmedizin Berlin, Germany