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

ADVANCE PROGRAMME
As of June 2014

THIS CONGRESS IS OFFICIALLY ENDORSED BY:

Meeting endorsed by
EHRA,a Registered
Branch of the ESC

EUROPEAN
Heart Rhythm
ASSOCIATION

HEART FAILURE
ASSOCIATION OF THE ESC

EACPR

The scientific programme of
the meeting is endorsed by:
e-Cardiology
ESC Working Group
EUROPEAN
SOCIETY OF
CARDIOLOGY

International Society for
Telemedicine & eHealth

United4Health

Health Promotion
Switzerland

INSELSPITAL
UNIVERSITÄTSSPITAL BERN
HOSPITAL UNIVERSITAIRE DE BERNE
BERN UNIVERSITY HOSPITAL

UniversitätsSpital Zürich

EPFL
ECOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE
## 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>e-Health platforms and data security</td>
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<tr>
<td>11:00 - 12:30</td>
<td>Chronic disease management with telemedicine &amp; e-Health</td>
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<tr>
<td>13:15 - 14:45</td>
<td>Telemonitoring in cardiac device therapy</td>
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<td>e-Health and telemedicine in clinical practice</td>
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<td>15:15 - 16:45</td>
<td>Organized Session by Health Promotion Switzerland</td>
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<td>Mobile health and its potential for prevention and health promotion</td>
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<td>17:00 - 18:30</td>
<td>Mobile health in cardiac rehabilitation</td>
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### THURSDAY 30/10/14

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>Current situation and challenges in e-Cardiology &amp; e-Health</td>
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<tr>
<td>11:00 - 12:30</td>
<td>Telerehabilitation in cardiovascular care</td>
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<td>United4Health telehealth session</td>
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<td>ECG Standards for Data Exchange</td>
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<tr>
<td>13:15 - 14:45</td>
<td>Telemedicine in chronic disease management - Organizational Aspects</td>
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<td>New developments in remote monitoring of patients with devices</td>
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<tr>
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<td>Oral abstract presentations</td>
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<tr>
<td>15:15 - 16:45</td>
<td>Telemedicine in chronic disease management - various applications</td>
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<td>How to use telemedicine to keep elderly people independent</td>
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<td>Oral abstract presentations</td>
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<tr>
<td>17:00 - 18:30</td>
<td>Discussion Forum: Safety &amp; privacy in telerehabilitation</td>
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<td>Remote electrocardiographic recordings and analysis</td>
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<td>Big data management - News from EPFL</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>Clinical evidence for telemedicine in heart failure</td>
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<td>Telemedicine and mobile / online health application - Cardiac Imaging</td>
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<td>Start-up presentations</td>
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<tr>
<td>11:00 - 12:30</td>
<td>Joint Session with HFA: Overcoming barriers in implementing exercise training in HF: is e-Health a solution?</td>
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<td>Telemedicine and mobile / online health applications: Evaluation of mobile apps for cardiology</td>
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<td>Oral abstract presentations</td>
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<tr>
<td>13:15 - 14:45</td>
<td>Towards interoperable health record summaries</td>
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<td>Business Cases, Cost efficiency and reimbursement of e-Health and telemedical programmes: International Experience</td>
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<td>Challenges in e-Cardiology</td>
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<tr>
<td>15:15 - 16:45</td>
<td>Research &amp; Methodology in Telemedicine</td>
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<td>Validation &amp; regulation of mobile apps for cardiology</td>
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<td>Business speed dating</td>
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From 08:00 - 13:30 REGISTRATION

<table>
<thead>
<tr>
<th>09:00 - 10:30</th>
<th>Bellavista 5</th>
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<tbody>
<tr>
<td><strong>e-HEALTH PLATFORMS AND DATA SECURITY</strong></td>
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<tr>
<td><strong>Chairpersons:</strong></td>
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<tr>
<td>09:00</td>
<td>Data security</td>
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<td></td>
<td>F. Schneuwly</td>
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<td>09:25</td>
<td>electronic patient dossier</td>
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<td>J. Bleuer</td>
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<td>09:50</td>
<td>Practical aspects - the view of the provider</td>
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<td>Speaker’s name</td>
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<td>10:15</td>
<td>Panel Discussion</td>
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10:30 - 11:00 COFFEE BREAK

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<tr>
<th>11:00 - 12:30</th>
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<tbody>
<tr>
<td><strong>CHRONIC DISEASE MANAGEMENT WITH TELEMEDICINE &amp; e-HEALTH</strong></td>
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<tr>
<td><strong>Chairpersons:</strong></td>
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<tr>
<td>11:00</td>
<td>Swiss Heart Coach - current state and expectations</td>
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<td>Prof. Dr. A. Hoffmann, University of Basel</td>
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<td>11:20</td>
<td>Telemedicine centers - promises and challenges</td>
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<td>Dr. A. Fischer, Basel</td>
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<td>11:40</td>
<td>Patient platforms and their implementation in clinical practice</td>
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<td></td>
<td>Speaker</td>
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<tr>
<td>12:00</td>
<td>e-Health &amp; telemedicine - the clinical view in preventive cardiology</td>
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<td>PD Dr. M. Wilhelm, University Hospital Bern</td>
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<td>12:20</td>
<td>Panel Discussion</td>
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12:30 - 13:15 LUNCH BREAK

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<thead>
<tr>
<th>13:15 - 14:45</th>
<th>Bellavista 5</th>
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<tbody>
<tr>
<td><strong>TELEMONITORING IN CARDIAC DEVICE THERAPY</strong></td>
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<tr>
<td><strong>Chairpersons:</strong></td>
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<tr>
<td>13:15</td>
<td>Remote Monitoring of Patients with Cardiac Implantable Devices: Technical Considerations</td>
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<td>Speaker's name</td>
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<tr>
<td>13:40</td>
<td>Remote Monitoring of Cardiac Implantable Devices: Clinical Aspects</td>
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<td>Speaker's name</td>
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<tr>
<td>14:05</td>
<td>Remote Devices Management; is it worth the Investment?</td>
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<td>Speaker's name</td>
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<td>14:30</td>
<td>Panel Discussion</td>
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WEDNESDAY 29 OCT. 2014

13:15 - 14:45  Bellavista 4

**e-HEALTH & TELEMEDICINE IN CLINICAL PRACTICE**  
Chairpersons: PD Dr. C. Brockes, University Hospital Zurich

- **13:15**  
  Teleconsultation in vascular surgery: a 13 year single centre experience  
  Dr. med. C. Schmidt

- **13:40**  
  Online-Consultation for psychiatric problems  
  Dr. med. S. Weidt

- **14:05**  
  LILA - long independent living assistant  
  Dr. med. S. Schmidt-Weitmann

- **14:30**  
  Panel Discussion

**14:45 - 15:15 COFFEE BREAK**

15:15 - 16:45  Bellavista 5

**MOBILE HEALTH AND ITS POTENTIAL FOR PREVENTION AND HEALTH PROMOTION**  
Chairpersons: T. Mattig, Director Health Promotion Switzerland

- **15:15**  
  Current trends in mobile health and prevention - market drivers and business models  
  Silvio Frey, Institute for Communication and Leadership, Lucerne

- **15:40**  
  Mobile health applications in integrated primary health care setting  
  Dr. med. M. Denz, Head Santé24

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

- **16:30**  
  Panel Discussion

**17:00 - 18:30**  Bellavista 5

**MOBILE HEALTH - TOWARDS CLINICAL APPLICATION**  
Chairpersons:

- **17:00**  
  Introduction  
  Prof. H. Saner

- **17:10**  
  Swisscom and eHealth  
  Stefano Santinelli

- **17:30**  
  Economics of Healthcae Apps  
  Maja Zulauf

- **17:50**  
  Mayo Clinic Research Shows Cardiac Rehab Patients Who Use Smartphone App Recover Better  
  Dr. A. Lerman, Mayo Clinic Minnesota, USA

- **18:20**  
  Panel Discussion
FROM 08:00 - 13:30 REGISTRATION

09:00 - 10:30 Mezzo 1

CURRENT SITUATION AND CHALLENGES IN e-CARDIOLOGY & e-HEALTH
Chairpersons: Prof. H. Saner

09:00 e-Health and Telemedicine: Current Situation and Future Challenges
Speaker’s name
09:20 The View of the ESC e-Cardiology Working Group: Problems & Chances
Prof. M. Malik
09:40 Medicine at a Distance - Is Telemedicine the Solution?
Speaker’s name
10:00 Improvement of Lifestyle with Health Applications - From Theory to Practical Application
Speaker’s name
10:20 Panel Discussion

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30 Mezzo 1

TELEREHABILITATION IN CARDIOVASCULAR CARE
Chairpersons: Prof. P. Dendale

11:00 Telerehabilitation in heart failure
Dr. E. Piotrowicz, Poland
11:20 Telerehabilitation in hypertension treatment
V. Cornelissen, Belgium
11:40 Short term results of telerehabilitation of increase exercise in CAD
Harelid Kemp, the Netherlands
12:00 Telerehabilitation: state-of-the-art
I. Frederix, Belgium
12:20 Panel Discussion

11:00 - 12:30 Bellavista 5

UNITED4HEALTH TELEHEALTH SESSION
Chairpersons:

11:00 Title
Speaker’s name
11:20 Titel
Speaker’s name
11:40 Titel
Speaker’s name
12:00 Titel
Speaker’s name
12:20 Panel Discussion
### THURSDAY 30 OCT. 2014

**11:00 - 12:30**  
**Bellavista 4**

**ECG STANDARDS FOR DATA EXCHANGE**  
Chairpersons: Prof. M. Malik

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Compatibility and Differences of Different ECG Acquisition Equipment</td>
<td>M. Scherf</td>
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<td>11:20</td>
<td>Formats of ECG Storage</td>
<td>F. Badilini</td>
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<td>11:40</td>
<td>FDA ECG Warehouse Example of Multi-Source ECG Database</td>
<td>M. Marek</td>
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<td>12:00</td>
<td>Holter Data Exchanges</td>
<td>P. Maison-Blanche</td>
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<td>12:20</td>
<td>Panel Discussion</td>
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**12:30 - 13:15 LUNCH BREAK**

**13:15 - 14:45**  
**Mezzo 1**

**TELEMEDICINE IN CHRONIC DISEASE MANAGEMENT - ORGANIZATIONAL ASPECTS**  
Chairpersons: Prof. Wolf,

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<tr>
<td>13:15</td>
<td>COMES as telemedical concept</td>
<td>J. Clauss</td>
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<td>13:40</td>
<td>Asthma and telemedicine</td>
<td>A. Scholz</td>
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<tr>
<td>14:05</td>
<td>Hypertension and telemedical feedback therapy</td>
<td>P. Friedrich</td>
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<td>14:30</td>
<td>Panel Discussion</td>
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**13:15 - 14:45**  
**Bellavista 5**

**NEW DEVELOPMENTS IN REMOTE MONITORING OF PATIENTS WITH DEVICES**  
Chairpersons: Dr. E. van der Velde

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<tr>
<td>13:15</td>
<td>Socio-economic effects and cost saving potential of remote patient monitoring. Results from the SAVE-HM trial.</td>
<td>S. Perl</td>
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<td>13:35</td>
<td>Quarterly vs. yearly clinical follow-up of remotely monitored recipients of prophylactic implantable cardioverter-defibrillators: Results of the REFORM trial.</td>
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<td>13:55</td>
<td>The experiences of patients with remote monitoring systems</td>
<td>Speaker’s name</td>
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<td>14:15</td>
<td>Data exchange between remote monitoring systems, programmers and the Electronic Health Record: standards and present status of implementation</td>
<td>E. van der Velde</td>
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<td>14:35</td>
<td>Panel Discussion</td>
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THURSDAY 30 OCT. 2014

13:15 - 14:45          Bellavista 4

ORAL ABSTRACT PRESENTATION
Chairpersons:

13:15  Title
       Speaker’s name
13:35  Titel
       Speaker’s name
13:55  Titel
       Speaker’s name
14:15  Titel
       Speaker’s name
14:35  Panel Discussion

14:45 - 15:15 COFFEE BREAK

15:15 - 16:45          Mezzo 1

TELEMEDICINE IN CHRONIC DISEASE MANAGEMENT - VARIOUS APPLICATIONS
Chairpersons: Prof. B. Wolf

15:15  Telematic therapy of apoplex rehabilitation
       K. Hinderer
15:35  Bruxism in telemedicine
       J. Clauss
15:55  Connection to telemedical center
       J. van Overbeck
16:10  General Practitioner and Telemedicine
       Dr. Elsässer
16:35  Panel Discussion

15:15 - 16:45          Bellavista 5

HOW TO USE TELEMEDICINE TO KEEP ELDERLY PEOPLE INDEPENDENT
Chairpersons: Orange

15:15  Title
       Speaker’s name
15:40  Title
       Speaker’s name
16:05  Title
       Speaker’s name
16:30  Title
       Speaker’s name
16:45  Panel Discussion
ORAL ABSTRACT PRESENTATION
Chairpersons:

15:15  Title
Speaker's name
15:35  Title
Speaker's name
15:55  Title
Speaker's name
16:10  Title
Speaker's name
16:30  Panel Discussion

17:00 - 18:30  Mezzo 1

DISCUSSION FORUM

SAFETY AND PRIVACY IN TELEREHABILITATION, HOW AND WHAT TO MONITOR, HOW TO GIVE FEED-BACK
Chairpersons / Moderators: Prof. P. Dendale, Dr. E. Piotrowicz

17:00 - 18:30  Discussion Forum

17:00 - 18:30  Bellavista 5

REMOTE ELECTROCARDIOGRAPHIC RECORDINGS AND ANALYSIS
Chairpersons: Prof. M. Malik

17:00  Present use of ambulatory holter recordings
Frederico Lombardi
17:20  Implantable loop recorders
Heikki Huikuri
17:40  ECG recording by smartphone applications
Enrico Caiani
18:00  Wearable ECG patch
Lars Grieten
18:20  Panel Discussion
# BIG DATA MANAGEMENT - NEWS FROM EPFL

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<td>17:50</td>
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FROM 08:00 - 13:30 REGISTRATION

09:00 - 10:30 Mezzo 1

CLINICAL EVIDENCE FOR TELEMEDICINE IN HEART FAILURE
Chairpersons: Prof. S. Anker, Dr. E. van der Velde

09:00 The whole System demonstrator Project - Lessons to learn for upcoming trials
S. Newman, London
09:20 The INTIME-HF - HF Management with implanted devices only
Speaker
09:40 Telemedicine not only for the rural areas
Prof. P. Vardas, Heraklion
10:00 ESC Heart Failure Association and Telemedicine - The long way from trials to guidelines
Prof. S. Anker, Berlin - altern. Prof. P. Ponikowski, Wroclaw
10:20 Panel Discussion

09:00 - 10:30 Bellavista 5

TELEMEDICINE AND MOBILE ONLINE HEALTH APPLICATION - CARDIAC IMAGING
Chairpersons: N. Bruining

09:00 Cardiovascular imaging on mobile devices Is it feasible?
N. Bruining, Netherlands
09:25 Which cardiovascular images do we need to access everywhere?
Speaker
09:50 What do we need to create a cloud-based cardiovascular imaging environment?
S. de Winter, Netherlands
10:15 Panel Discussion

09:00 - 10:30 Bellavista 4

START-UP PRESENTATIONS
Chairpersons:

09:00 Titel
Speaker's name
09:20 Titel
Speaker's name
09:40 Titel
Speaker's name
10:00 Titel
Speaker's name
10:20 Panel Discussion
FRIDAY 31 OCT. 2014

10:30 - 11:00 COFFEE BREAK

11:00 - 12:30     Mezzo 1

JOINT SESSION WITH HFA
OVERCOMING BARRIERS IN IMPLEMENTING EXERCISE TRAINING IN HF: IS e-HEALTH A SOLUTION?
Chairpersons: M. Piepoli, z.B. F. Köhler

11:00    Exercise training in HF: Opportunities and limitations
         B. Pieske or M. Piepoli
11:20    What is the potential for e-Health? Evidence from Clinical Trials
         E. Piotrowicz, Poland
11:40    What are the main obstacles to e-Health: Patients, clinicians, managers or judges?
         C. Zugck, Germany
12:00    Major technical advances in developing e-Health practice
         S. Zannoli, Italy
12:20    Panel Discussion

11:00 - 12:30     Bellavista 5

TELEMEDICINE AND MOBILE / ONLINE HEALTH APPLICATIONS: EVALUATION OF MOBILE APPS FOR CARDIOLOGY
Chairpersons: Dr. Enrico Caiani

11:00    Mobile applications in Cardiology: state-of-the-art
         B. Martinez-Perez
11:20    Traffic light-based classification of mobile apps in cardiology
         F. Pinciroli
11:40    A review and framework for development and evaluation of mobile technology for cardiac rehabilitation
12:00    Measuring usability of mobile applications
12:20    Panel Discussion

11:00 - 12:30     Bellavista 3

ORAL ABSTRACT PRESENTATION
Chairpersons:

11:00    Company's name
         Speaker's name
11:20    Company's name
         Speaker's name
11:40    Company's name
         Speaker's name
12:00    Company's name
         Speaker's name
12:20    Panel Discussion
FRIDAY 31 OCT. 2014

12:30 - 13:15 LUNCH BREAK

13:15 - 14:45 Mezzo 1

TOWARDS INTEROPERABLE ELECTRONIC HEALTH RECORD SUMMARIES
Chairpersons: C. Chronaki, D. Kalra

13:15 High quality clinical documentation and audit of patients summaries in heart failure
Dr. S. Hardman
13:30 Ontological brokers between alternative representations of EHR summaries in HF
S. Schulz & C. Martinez
13:45 Importance of clinical engagement in good practice content for health record in cardiovascular shared care
Prof. D. Kalra
14:00 Cost benefit assessment for investments in interoperable HF representations
V. Stroetmann
14:15 Bridging electronic health record summaries across health systems and countries: Is it feasible?
C. Chronaki
14:30 Panel Discussion

13:15 - 14:45 Bellavista 5

Telemedicine - clinical applications
Chairpersons:

13:15 Hypertension and telemedical Feedback therapy
Speaker’s name
13:35 PUMA - Prevention and motivation in obesity
Speaker’s name
13:55 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
Speaker’s name
14:10 Gamification in endurance sports - Possible use in coronary secondary prevention to increase motivation and compliance
Speaker’s name
14:30 Panel Discussion

13:15 - 14:45 Bellavista 4

CHALLENGES IN e-CARDIOLOGY
Chairpersons: C. Chronaki, G. Krstacic

13:15 Assessing health by complexity analysis of cardiovascular signals
P. Castiglioni
13:35 Asymmetry of cardiovascular time series and its clinical value
P. Guzik
13:55 Beat-to-beat assessment of cardiac intervals by wearable seismography in sleep and ambulant subjects
M. Di Rienzo
14:10 Catheter ablation of atrial fibrillation - at the edge of order and chaos
R. Bernat
14:30 Panel Discussion
14:45 - 15:15 COFFEE BREAK

15:15 - 16:45 Mezzo 1

RESEARCH & METHODOLOGY IN TELEMEDICINE
Chairpersons: F. Köhler

15:15 Specific methodological problems in the design of RCT for telemedicine
Prof. F. Köhler
15:35 Research in Pharmacology using telemedical Technologies
PD K. Leineweber, Bayer Healthcare (oder jemand aus CH)
15:55 Cost Benefit Assessments for Telemedicine
Prof. Müller-Riemenschneider, Singapore
16:15 Research von Health Status in a changing climate - implications for telemedicine
C. Witt, Germany
16:35 Panel Discussion

15:15 - 16:45 Bellavista 5

VALIDATION & REGULATION OF MOBILE APPS FOR CARDIOLOGY
Chairpersons: Dr. Enrico Caiani

15:15 The importance of scientific evaluation in mobile health technologies
W. Riley
15:35 Validation of a cardiology-related mobile application
B. Freedman
15:55 The EU and FDA regulatory framework for mHealth
T. Philips
16:15 Regulation for mHealth applications: the developers point of view
J. Ward
16:35 Panel Discussion

15:15 - 16:45 Bellavista 3

BUSINESS SPEED DATING
Chairpersons:

15:15 Company's name
Speaker's name
15:35 Company's name
Speaker's name
15:55 Company's name
Speaker's name
16:15 Company's name
Speaker's name
16:35 Panel Discussion
CONGRESS PARTNERS

Heinz Nixdorf Stiftung

Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik
Prof. Dr. rer. nat. Bernhard Wolf
Technische Universität München

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