

European Congress on e-Cardiology & e-Health

Kursaal Bern | Switzerland


29 - 31 October 2014

www.e-cardiohealth.org



CONGRESS PROGRAMME

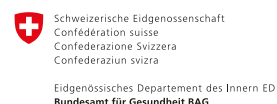
The e-Cardiohealth programme at your fingertips: www.e-cardiohealth.org - programme

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



UniversitätsSpital Zürich



CONGRESS PARTNERS



European Congress on e-Cardiology & e-Health 2014, Bern | Switzerland

Organized by Preventive Cardiology & Sports Medicine, University Hospital, Inselspital Bern, Switzerland

Congress Director: Prof. Dr. med. Hugo Saner, hugo.saner@insel.ch

Congress Manager: Julia Lambrecht, julia.lambrecht@insel.ch

FACULTY e-CARDIOLOGY & e-HEALTH CONGRESS

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

Eramus 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

09:00 - 10:30

- 1. Chronic disease management with telemedicine & e-Health
- 2. e-Health: The view of the clinicians

11:00 - 12:30

- 3. e-Health and telemedicine: Chances and challenges for the pharmacist
- 4. e-Health and telemedicine in clinical practice

13:15 - 14:45

- 5. Mobile health - towards clinical application

15:15 - 16:45

- 6. Mobile health and its potential for prevention and health promotion (Health Promotion Switzerland)

17:00 - 18:30

- 7. How to use telemedicine to keep elderly people independent
- 8. e-Health and telemedicine: The role of the government

THURSDAY 30/10/14

09:00 - 10:30

- 9. Inaugural Session International Congress

11:00 - 12:30

- 10. Telerehabilitation in cardiovascular care
- 11. Remote electrocardiographic recordings and analysis

13:15 - 14:45

- 12. Telemedicine in chronic disease management
- 13. Contributions of telemedicine to reduce the burden of stroke
- Start-up presentations 1

15:15 - 16:45

- 14. Telemedicine in chronic disease management - various applications
- 15. Telemonitoring in cardiac device therapy
- Start-up presentations 2

17:00 - 18:00

- 16. Big data in healthcare: A computer science perspective?
- 17. New developments in remote monitoring of patients with devices
- Discussion Forum: Safety & privacy in telerehabilitation

FRIDAY 31/10/14

09:00 - 10:30

- 18. Challenges in e-Cardiology
- 19. Emerging role of telemedicine in cardiac rehabilitation - oral abstract presentations
- 20. Telemedicine and mobile / online health application - Cardiac Imaging

11:00 - 12:30

- 21. Telemedicine and mobile / online health applications: Evaluation of mobile apps for cardiology
- 22. Research & Methodology in Telemedicine

13:15 - 14:45

- 23. Joint Session with HFA: Overcoming barriers in implementing exercise training in HF: is e-Health a solution?
- 24. Telemedicine - clinical applications

15:15 - 16:45

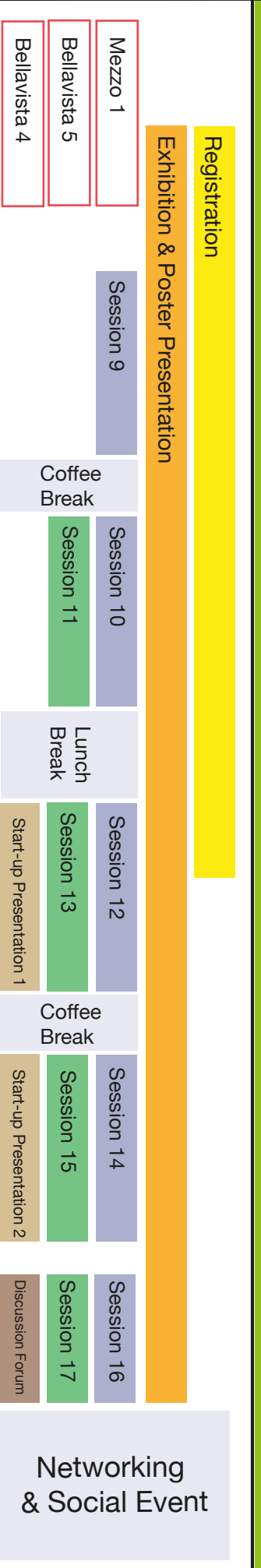
- 25. Transforming the patient experience with telehealth in Europe: focus on new health care service models
- 26. Towards interoperable health record summaries

CONGRESS TIMETABLE

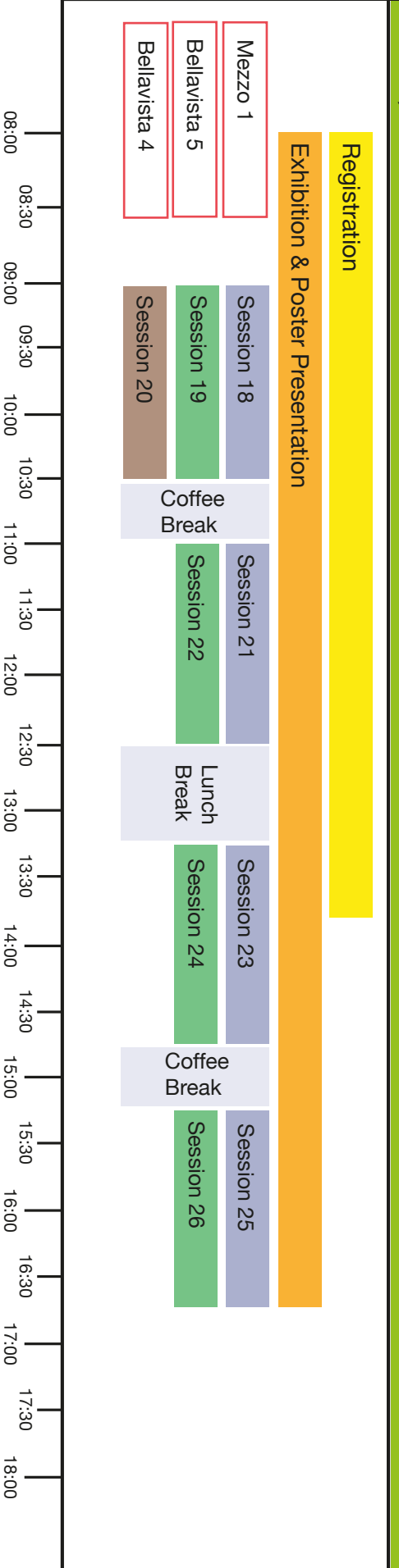
WEDNESDAY, 29 October 2014 - SWISSDAY



THURSDAY, 30 October 2014



FRIDAY, 31 October 2014



WEDNESDAY 29 OCT. 2014

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



09:00 - 10:30

Bellavista 4

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, Healthvidence 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

WEDNESDAY

THURSDAY

FRIDAY

WEDNESDAY 29 OCT. 2014

2 parallel sessions 11:00 - 12:30:

11:00 - 12:30

Bellavista 5

SESSION 3: e-HEALTH & TELEMEDICINE: CHANCES AND CHALLENGES FOR THE PHARMACIST

Chairpersons: H. Saner, G. Spinaz



- 11:00 e-Prescription - a building block long overdue
C. Köpe, Galenica AG, Bern | Switzerland
- 11:15 e-Prescription networks: A success story from Estland
K. Sepp, Estonian pharmacies Association | Estonia
- 11:40 Diabetes & e-Health
S. Mougialakou, ARTORG, University of Bern | Switzerland
- 12:00 Diabetes, arterial hypertension and lifestyle control: just around the corner?
D. Rhyner, University of Bern | Switzerland
- 12:15 Keep In Touch – mHealth Solutions for the Management of Chronic Diseases
D. Hayn, AIT Austrian Institute of Technology, Graz | Austria

11:00 - 12:30

Bellavista 4

SESSION 4: e-HEALTH & TELEMEDICINE IN CLINICAL PRACTICE



UniversitätsSpital Zürich

Chairperson: C. Brockes

- 11:00 Teleconsultation in vascular surgery: a 13 year single centre experience
C. Schmidt, University Hospital Zürich | Switzerland
- 11:25 Online-Consultation for psychiatric problems
S. Weidt, University Hospital Zürich | Switzerland
- 11:50 LILA - long independent living assistant
S. Schmidt-Weitmann, University Hospital Zürich | Switzerland
- 12:15 Panel Discussion

12:30 - 13:15 LUNCH BREAK

Bellavista 2/3

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

13:15 - 14:45

Bellavista 5

SESSION 5: MOBILE HEALTH - TOWARDS CLINICAL APPLICATION

Chairpersons: H. Saner, A. Hoffmann

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



WEDNESDAY

THURSDAY

FRIDAY

WEDNESDAY 29 OCT. 2014

14:45 - 15:15 COFFEE BREAK

Bellavista 2/3

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

15:15 - 16:45

Bellavista 5

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



Health Promotion
Switzerland

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

Bellavista 5

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

17:00 - 18:30

Bellavista 4

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



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Eidgenössisches Departement des Innern EDI
Bundesamt für Gesundheit BAG

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

WEDNESDAY

THURSDAY

FRIDAY

THURSDAY 30 OCT. 2014

FROM 08:00 - 13:30 REGISTRATION

09:00 - 10:30

Mezzo 1

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

Szenario

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

2 parallel sessions 11:00 - 12:30:

11:00 - 12:30

Mezzo 1

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

Bellavista 5

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

WEDNESDAY

THURSDAY

FRIDAY

THURSDAY 30 OCT. 2014

12:30 - 13:15 LUNCH BREAK

Szenario

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

 Heinz Nixdorf Stiftung

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

sponsored by:


13:15 - 14:45

Bellavista 5

SESSION 13: CONTRIBUTIONS OF TELEMEDICINE TO REDUCE THE BURDEN OF STROKE

sponsored by:


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

WEDNESDAY

THURSDAY

FRIDAY

THURSDAY 30 OCT. 2014

14:45 - 15:15 COFFEE BREAK

Szenario

POSTER SESSION

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

3 parallel sessions 15:15 - 16:45:

15:15 - 16:45

Mezzo 1

SESSION 14: TELEMEDICINE IN CHRONIC DISEASE MANAGEMENT - Heinz Nixdorf Stiftung VARIOUS APPLICATIONS

Chairpersons: D. Willemsen (DE), P. Dendale (B)

- 15:15 A telemedical tooth splint for therapy of tooth grinding
J. Clauss, Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich | Germany
- 15:35 Hypertension and telemedical feedback therapy
P. Friedrich, University of Applied Sciences Kempten | Germany
- 15:55 Long-term apoplex 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

15:15 - 16:45

Bellavista 5

SESSION 15: TELEMONITORING IN CARDIAC DEVICE THERAPY

sponsored by:



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

15:15 - 16:45

Bellavista 4

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

WEDNESDAY

THURSDAY

FRIDAY

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. Schaliij, 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.

FRIDAY 31 OCT. 2014

FROM 08:00 - 13:30 REGISTRATION

3 parallel sessions 09:00 - 10:30:

09:00 - 10:30

Mezzo 1

SESSION 18: CHALLENGES IN e-CARDIOLOGY

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

- 09:00 Assessing health by complexity analysis of cardiovascular signals
P. Castiglioni, IRCCS Fondazione Don Carlo Gnocchi, Milano | Italy
- 09:20 Asymmetry of cardiovascular time series and its clinical value
P. Guzik, Poznan University of Medical Sciences, Poznan | Poland
- 09:40 Beat-to-beat assessment of cardiac intervals by wearable seismography in sleep and ambulant subjects
M. Di Rienzo, IRCCS Fondazione Don Carlo Gnocchi, Milano | Italy
- 10:00 Acute coronary syndrome register - future challenges
I. Heim, Institute for Cardiovascular Prevention and Rehabilitation, Zagreb | Croatia
- 10:20 Panel Discussion

09:00 - 10:30

Bellavista 5

SESSION 19: EMERGING ROLE OF TELEMEDICINE IN CARDIAC REHABILITATION - ORAL ABSTRACT PRESENTATIONS

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

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

09:00 - 10:30

Bellavista 4

SESSION 20: TELEMEDICINE AND MOBILE ONLINE HEALTH APPLICATION - CARDIAC IMAGING

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

- 09:00 Cardiovascular imaging on mobile devices - Is it feasible?
N. Bruining, Erasmus Medical Center, Rotterdam | Netherlands
- 09:25 Which cardiovascular images do we need to access everywhere?
F. Plank, Innsbruck Medical University, Innsbruck | Austria
- 09:50 What do we need to create a cloud-based cardiovascular imaging environment?
S. de Winter, Erasmus Medical Center, Rotterdam | Netherlands
- 10:15 Panel Discussion

WEDNESDAY

THURSDAY

FRIDAY

FRIDAY 31 OCT. 2014

10:30 - 11:00 COFFEE BREAK

Szenario

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. Pincioli, 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

Szenario

POSTER SESSION

TECHNICAL DEMONSTRATIONS & PRESENTATIONS AT THE EXHIBITION STANDS

WEDNESDAY

THURSDAY

FRIDAY

FRIDAY 31 OCT. 2014

2 parallel sessions 13:15 - 14:45:

13:15 - 14:45

Mezzo 1

JOINT SESSION WITH HFA

endorsed by:



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

WEDNESDAY

THURSDAY

FRIDAY

2 parallel sessions 15:15 - 16:45:

15:15 - 16:45

Mezzo 1

SESSION 25: Transforming the patient experience with telehealth in Europe: Focus on new health care service models

endorsed by:



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

15:15 - 16:45

Bellavista 5

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

European Congress on e-Cardiology & e-Health

29 - 31 October 2014, Bern | Switzerland

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.

EXECISE 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 Nelböck-Huber | Hypertension Centre Munich, Germany

3. Optimizing Exercise Training in Prevention and Treatment of Heart Failure with Preserved Ejection Fraction (OptimEx-Clin) – Study Design and Telemedical Approach to Home-based Training

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 University, Germany | (4) Department of Cardiology, Medical University of Graz, Graz, Austria | (5) Department of Circulation and Medical Imaging and KG Jepsen 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 I.M. Sechenov | 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 Workowski (2), Detlev Willemsen (2) | (1) Lehrstuhl Informatik IV, TU Dortmund University, Otto-Hahn-Straße 16, 44227 Dortmund, Germany | (2) Schüchtermann-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 H 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

ACCEPTED ABSTRACTS

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 Polterauer, P Friedrich, B Wolf | Heinz Nixdorf-Lehrstuhl für Medizinische Elektronik, Munich, Germany

11. Long-term Apoplex 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 Mlekuž | 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 Pänkäälä, T Hurnanen, T Vasankari, T Kiviniemi, A Saraste, J Airaksinen | University of Turku, Finland

19. ECG-Home Project

A Noack, R Görlicke | 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

ACCEPTED ABSTRACTS

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 Goeirmanto, 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

CONGRESS PARTNERS



European Congress on e-Cardiology & e-Health 2014, Bern | Switzerland

Organized by Preventive Cardiology & Sports Medicine, University Hospital, Inselspital Bern, Switzerland

Congress Director: Prof. Dr. med. Hugo Saner, hugo.saner@insel.ch

Congress Manager: Julia Lambrecht, julia.lambrecht@insel.ch