

Content

<b><u>Opening Session</u></b>	<b>1</b>
<b>Converging Bio-Technologies to Implement eHealth Knowledge Sharing</b> , Giuseppe Tritto	2
<b>Telemedicine in India: The Apollo Story</b> , Krishnan Ganapathy	6
<b><u>Session 1: eHealth: Essential Support to Surgery and Traumatology</u></b>	<b>14</b>
<b>A Telediagnosics of Fracture Healing Progress</b> , W. Glinkowski, J. Żyłkowski, A. Wojciechowski et al.	15
<b>An Out-patient Survey of Plastic Surgery Patients</b> , M Nayeemuddin, M A Majeed, A Muneer, A Misra	21
<b>Colour Fidelity of Digital Skin Images: Subjective Estimation by Dermatologists</b> , N. V. Matveev	26
<b>Inexpensive Telemedicine Applications and Trauma System Development in Latin America: Ecuador's Experience</b> , M. Aboutanos, F. Mora, M. Duong et al.	28
<b>Telescreening of the Posture and Spinal Deformations followed by Telerehabilitation project - Current Status</b> , W. Glinkowski, R. Sitnik, K. Mąkosa et al.	33
<b>The Feasibility of Remotely Supported Myofeedback Treatment (RSMT) in Women with Neck-shoulder Pain due to Computerwork</b> , M. H. A Huis in 't Veld, B. C. H Huijgen, L. Schaake et al.	40
<b>Tools for Global Healthcare for All, Any Time, Anywhere: Ubiquitous Healthcare</b> , G. Graszew, T. Roelofs, S. Rakowsky, P. Schlag	44
<b>Visualization of Multidimensional Biomedical Data using GRID Technologies</b> , G. Varoneckas, J. Zilinskas, A.	48

Martinkėnas et al.

**Session 2: Mobile eHealth Solutions** **52**

**A Telemedical Therapy-management System with Rule-based Active Patient Feedback**, M. Pinsker, P. Kastner, G. Schreier **53**

**Concepts and Strategies for Personalized Biofeedback-Therapies**, P. Friedrich, A. Scholz, J. Clauss et al. **57**

**Contex-aware Mobile Teletreatment for Patients with Chronic Pain**, M. M. R. Vollenbroek-Hutten, M. van Weering, M. H. A Huis in 't Veld , H. J. Hermens **61**

**Mobile and Wireless Technologies for eHealth Provision in Africa: Opportunities for GSM-Based Patient Centric Services**, A. Ilyemi, C. Fitch, D. T. Parry **64**

**Mobile ECG – A New eHealth Solution for Telecardiology based on eHIT Health Gateway Platform**, F. Galbiati, K. Takizawa, A. Holopainen **73**

**Telemedicine in a Complex of Socially Important Services to the Population in Russia and CIS countries**, M. Ya. Natenzon, B. V. Kristalny **77**

**The Mobile Doctor: Ambient Medicine® through Sensor-aided Personalized Telemedical Devices**, P. Friedrich, A. Scholz, J. Clauss et al. **83**

**Session 3: eHealth for Developing Countries: Lessons Learned** **87**

**An Electrodermal Activity Psychophysiologic Model**, H. Gamboa, A. Fred **88**

**An Introduction to Next Generation Digital Healthcare Services**, Z. H. Yao, L. Androuchko **92**

**Creating an Eco System for Delivery of Healthcare to the Rural and Remote Hospitals using SATCOM Technology:** **95**

<b>The Indian Experiences</b> , R. L. N. Murthy, L. S. Satyamurthy, A. Bhaskaranaryana	
<b>EHAS Program: Exitoso project in Telecommunications or in Telemedicine?</b> R. Medeiros, J. Wainer	99
<b>E-Health in Iran: Obstacles and Solutions</b> , A. Golchin	108
<b>Personal Electronic Health Diary for Developing Countries (PeHD)</b> , S. A. Shabbir	111
<b>Role of International Organization in the Promotion and Marketing of eHealth Services for Developing Countries</b> , V. Androuchko, P. Nuq	116
<b>The Role of Telecommunication in eHealth Services for Developing Countries</b> , L. Androuchko	122
<b><u>Session 4: Advanced Systems Strategies for e-Hospitals</u></b>	<b>130</b>
<b>A Framework to Support Intelligent Hospital Information System</b> , N. Koutsouris, K. Tsagkaris, F. Malamateniou, P. Demestichas	131
<b>Automatic Microbiological Laboratory Based Surveillance: The Micronet Project</b> , F. D’Ancona, C. Rizzo, S. Gamberini	135
<b>Simulations and Usability in the Evaluation of Pre-hospital Emergency Care: A Case Study</b> , S. Turunen, J. Holopainen, H. Jäntti et al.	140
<b>The Romanian-Italian Telemedicine Project</b> , V. D. Moga, M. Moga, L. Stoicu-Tivadar et al.	146
<b><u>Session 5: Efficiency in eHealth</u></b>	<b>150</b>
<b>Improving eHealth Quality and Safety</b> , A. C. M. Dumay	151
<b>Methods for Estimation of Efficiency of Telemedical</b>	160

**Consultation**, A. V. Vladzimirskyy

**Qualitative study: Evolution of the Model in Teleassistance and Healthcare**, L. C. Fernández, I. de Andrés, L. del Arbol 164

**Session 6: Successes in Telecardiology** 168

**A Geo-eHealth System for Large Scale Epidemiological Blood Pressure Assessment**, G. Schreier, S. Welte, Hayn, P. Kastner 169

**A Telecardiology Service Quality Model**, A. N. Kastania, S. Demarias, S. Kossida 173

**Applicability of Lead V2 ECG Measurement in Biometrics**, H. Silva, H. Gamboa, A. Fred 177

**Design of Online ECG Measurement System using Lab View Software**, N. P. Chowdhry, A. Ali, B. S Chowdhry, A. Q. K Rajput 181

**Minas Telecardio: Telecardiology in the Public Health System of Minas Gerais, Brazil**, M .B .M. Alkmim, A. L. P. Ribeiro, C. S. Cardoso et al. 187

**Telecardiology for Developing Country: Is it Feasible to Arrange?** V. Androuchko, M. Nashi 191

**Telemonitoring by Congestive Heart Failure: Predictive Value of Blood Pressure and Weight Instability in the Early Detection of Pending Cardial Decompensation**, D. Baden, J. Fleck, M. Klingelberg et al. 196

**Session 7: Best Practices of European eHealth Expertise** 201

**ACUBASE - On-line System for High Quality Acute Toxicity Data Acquisition and Management**, R. Rzepka, R. Rudowski, A. Kinsner, D. Sladowski 202

**Connected Health: Delivering Safe, Affordable and Accessible** 205

**Healthcare, T. Stroemsnes**

**Financing Opportunities Available at EU and National Level to Support and Boost Investment in eHealth, L. Botifoll** 207

**Snomed CT Standard in e-Health: Is it Really Needed? R. Rudowski, M. Grabowski, J. Michalik, B. Kaczynski** 212

**Study of the Expediency of Implantation of National Systems of Medical and Pharmaceutical Information via the Internet in Ukraine and Russia, which is Made on the Base of Ukrainian Project DOCTOR.UA, A. A. Lendyak** 215

**Telemedicine at Sea, Communicational Challenges, F. Amenta, A. Tveito, D. Terning** 219

**Telepsychiatry in Denmark, D. Mucic** 223

**Session 8: International Telemedicine and eHealth Initiatives and Developments** 228

**A Need for Internationall Ethical and Medico-legal Guidelines for Telemedicine in Africa , M. Mars** 229

**Applications of Information Technologies for Research in Clinical Ophtalmology, A. Paunksnis, S. Kurapkienė, V. Barzdžiukas et al.** 233

**E-Health in Polish Local Hospitals: Present State, Requirements and Possibilities, M. Karlinska, R. Rudowski** 236

**ePathology – Virtual Pathology Center in Georgia, E.T. Kldiashvili** 240

**The Evolution of Telemedicine in India, K. Ganapathy** 246

**Session 9: Homecare Applications: Maintaining Quality of Life for Elderly, Disabled and People with Special Needs (Business Models, Experiences, and Solutions)** 252

<b>Ambient Assisted Living: Preparation of a New European Funding Programme</b> , M. Huch, H. Strese	253
<b>Forecasts for Consumers' Purchase of Integrated Home Healthcare Systems in the US</b> , Rob Scheschareg	257
<b>Medical Monitoring for Independent Living: User-centered Smart Home Technologies for Older Adults</b> , O. A. Blanson Henkemans, K. E. Caine, W. A. Rogers, A. D. Fisk	263
<b>The Patient Home Assistance Application Based on Telemedicine Service</b> , S. Ionita, P. Anghelescu, S. Puscoci, M. M. Ionita	269
<b>Video-Communication in Home Care: The Application and the Business Model</b> , Thomas Pfeller	273
<b><u>Session 10: Telepaediatrics: Telemedicine and Child Health Experiences and Success Factors</u></b>	277
<b>Eight Years of Experience in Telepaediatrics</b> , B. Kobrinsky, N. Matveev	278
<b>Pediatric Electronic Health Record in Hospital Information System “Svogija”</b> , J. Vinarova , P. Mihova, I. Penjurov	280
<b>Telemedical Videoconferencing: The Russian Experience</b> , B. A. Kobrinsky	284
<b>Telepediatrics: The University of California, Davis Children’s Hospital Experience</b> , J .P. Marcin, K. Parsapour	288
<b><u>Session 11: e-Learning</u></b>	290
<b>Camerino University (UNICAM) E-Health and Telemedicine Courses: A New Area for University Education</b> , F. Amenta, S. K. Tayebati,D. Tomassoni	291

<b>Evaluating the use of an Internet Course with Video Demonstration for Training Medical Students in Lifesaving Procedures in Trauma Care</b> , F. S. Collet e Silva, N. D. Mori, A. C. Antunes et al.	295
<b>The Organization and Implementation of Distance Education in Georgia</b> , E. T. Kldiashvili	300
<b>Virtual Man, Cybertutor: A Project in Dentistry</b> , S. Soares, D. Castilio, C. A. P. P. Sgaviolli et al.	307
<b><u>Session 12: eHealth Solutions for Diabetes Management</u></b>	<b>311</b>
<b>A Complete Mobile Phone Based eHealth Solution for Diabetes Management</b> , A. Holopainen, F. Galbiati, K. Voutilainen	312
<b><u>Session 13: eHealth in Daily Practice</u></b>	<b>316</b>
<b>An Electronic Health Records for Scotland: Legal Problems Regarding Access and Maintenance</b> , R. Gertz	317
<b>Brazilian National Telehealth Program</b> , A. E. Haddad, M. B. M. Alkmim, C. L. Wen, S. Roschke	321
<b>Consumer Attitude towards eHealth in Greece</b> , C. E. Chronaki	324
<b>Design Guidelines for the Improvement of Telemedicine Acceptance by Medical Professionals</b> , P. E. Esser, R. H. M. Goossens, M. R. M. Crul	328
<b>Providing after Hours Workforce Support to Rural General Practitioners in Tasmania, Australia: A Practical Application of ICT in Primary Care</b> , J. A. Davis, D. J. W. Law	332
<b>Reporting of a Telemedicine Centre to Involved Integrated Care Players</b> , M. Klingelberg, D. Baden, M. Wähler et al.	336
<b>Telecenters Networks for Complex Medical Services – TELMES</b> , S. Puscoci, S. Ionita, F. Bajan, F. Șerbanescu	341

<b><u>Session 14: The Carinthian Notarzt (Emergency Physician) Information System (CANIS) Workshop</u></b>	<b>346</b>
<b>CANIS – Quality Enhancement in Emergency Medicine through Wireless Wearable Computing, S. Grasser, J. Thierry, C. Stingl, C. Hafner</b>	<b>347</b>
<b>The Emergency Physician A Best or Burden? C. Hafner, J. Thierry, S. Grasser</b>	<b>351</b>