Contents

Preface
Anthony C. Smith, Nigel R. Armfield and Robert H. Eikelboom v

International Expert Review Panel vii

Virtual Simulation Training Using the Storz C-HUB to Support Distance Airway Training for the Spanish Medical Corps and NATO Partners
Alberto H. Abadia de Barbara, Thomas A. Nicholas IV, Antonio Del Real Colomo, David Boedeker, Mary A. Bernhagen, Laura Hillan Garcia, Fernando Setién and Ben H. Boedeker 1

Personal Health Records: Retrieving Contextual Information with Google Custom Search
Mahmud Ahsan, H. Lee Seldon and Shohel Sayeed 10

Successes and Failures of Using the Cell Phone as a Main Mode of Communication Between Participants and Facilitators from a Distance: An Innovative Method of Training Rural Health Facility Managers in Papua New Guinea
Lucy Au 19

Telemedicine Support of Maternal and Newborn Health to Remote Provinces of Mongolia
Tsedmaa Baatar, Narmandakh Suldsuren, Shinetugs Bayanbileg and Khishgee Seded 27

Can a Novel Smartphone Application Detect Periodic Limb Movements?
Rashmi Bhopi, David Nagy and Daniel Erichsen 36

Randomised Controlled Trial of an In-Home Monitoring Intervention to Improve Health Outcomes for Type 2 Diabetes: Study Protocol
Karen Carlisle, Robin Warren, Paul Scuffham and Tracy Cheffins 43

Targeting Zero Non-Attendance in Healthcare Clinics
Ka C. Chan and David B. Chan 52

Design of a Large Scale Community-Based Self-Management System for Diabetes Mellitus
Ka C. Chan, Lucia Wong and David B. Chan 58

The Telegraph and the Beginnings of Telemedicine in Australia
Robert H. Eikelboom 67

Delivering Healthcare Cost-Effectively Using Available Technology
Henry R. Glennie 73
A Proposal to Design a Location-Based Mobile Cardiac Emergency System (LMCES) 83
Pantea Keikhosrokiani, Norlia Mustaffa, Nasriah Zakaria and Muhammad Imran Sarwar

Using Twitter for Prenatal Health Promotion: Encouraging a Multivitamin Habit Among College-Aged Females 93
Michael Mackert, Eunice Kim, Marie Guadagno and Erin Donovan-Kicken

Automated NFC Enabled Rural Healthcare for Reliable Patient Record Maintainance 104
Divyashikha Sethia, Shantanu Jain and Himadri Kakkar

The Effect of Post Traumatic Stress Disorders on Rehabilitation Among Combat-Wounded Veterans 114
Kris Siddharthan

Personal Health Records: Mobile Biosensors and Smartphones for Developing Countries 125
Sternly K. Simon and H. Lee Seldon

High Definition 3D Telemedicine: The Next Frontier? 133
Andrew Stranieri, Richard Collmann and Ann Borda

Home Care and Technology: A Case Study 142
Eleni Stroulia, Ioanis Nikolaidisa, Lili Liua, Sharla King and Lysanne Lessard

Towards an International Electronic Repository and Virtual Laboratory of Open Data and Open-Source Software for Telehealth Research: Comparison of International, Australian and Finnish Privacy Policies 153
Hanna Suominen

An SMS-Based HIV/AIDS Education and Awareness Model for Rural Areas in Papua New Guinea 161
Joseph Kim Suwamaru

Viability of Healthcare Service Delivery Alternatives for the Australian Mining Sector 170
Patricia A.H. Williams and Margaret Giles

A Videoconferencing Tool Acting as a Home-Based Healthcare Monitoring Robot for Elderly Patients 180
Zamikhaya Mapundu, Thierry Simonnet and J.S. van der Walt

Telemonitoring of Medication Adherence in Patients with Major Mental Illness: Watching the Patient as Well as the Pills 189
Norman Zimmerman

Subject Index 197
Author Index 199