In this publication, e-health is defined as the use of advanced telecommunications such as the Internet, portable and other sophisticated devices, advanced networks and new design approaches aiming to support healthcare delivery and education. Thus, e-health refers to a fundamental redesign of healthcare processes based on the use and integration of electronic communication at all levels. It aims to lead to patient empowerment which describes the transition from a passive role where the patient is the recipient of care services to an active role where the patient is informed, has choices and is involved in the decision making process.

e-Health has the potential to improve efficiency on a global level when patients cross national boundaries to seek treatment in other countries and to enable medical facilities and services across countries to be linked and accessible to citizens. Discussion topics focus on the use of mobile technologies in health care, “smart home” technologies, telemedicine applications that cross national borders, transatlantic collaborations in bioinformatics and the use of the Internet in health care. Furthermore, legislative efforts and ethical concerns associated with the diffusion of e-health are discussed and policies in the EU and the US reviewed and compared.
Contents

Message from James K. Scott, Director of the European Union Center at the University of Missouri/ James K. Scott

A Comprehensive Model for Evaluating Telemedicine/ Lanis L. Hicks and Keith E. Boles

Home Based E-Health Applications/ George Demiris

Mr. Young’s Doctor: How Must Physicians Be Prepared for Practice?/ Linda A. Headrick

E-Health Tools and Social Workers/ Debra Parker Oliver and George Demiris

Telework for Persons with Disabilities in the EU and the USA: What Can We Learn from Each Other?/ Laura H. Schopp

Evidence-Based Retrieval in E-Health/ Timothy B. Patrick, George Demiris and Lillian C. Folk

The Impact of Genomics on E-Health/ Joyce A. Mitchell

Privacy Enhancing Techniques in E-Health: An Overview/ Georges J.E. De Moor and Brecht Claerhout

Health Captology – Application of Persuasive Technologies to Health Care/ Albert S. Chan

Speak-ER: An Audible Web-Based Medical Record for Emergency Patients/ Francesco Pinciroli, Emanuela Corbetta, Matteo F. Tamburini, Andrea Mattasoglio, Stefano Bonacina, Marco Masseroli, Giovanni Meloni and Piergiorgio Spaggiari

MobiHealth: Ambulant Patient Monitoring Over Next Generation Public Wireless Networks/ Aart van Halteren, Dimitri Konstantas, Richard Bulits, Katarzyna Wac, Nicolai Dokovsky, George Koprinkov, Val Jones and Ing Widya

Service Level Web Monitoring in the Field Management of Emergencies/ Felice Catania, Cesare Colombo, Maurizio Marzegalli, Gabriella Borghi and Francesco Pinciroli

E-Health in the Scandinavian Countries/ Claus Duedal Pedersen

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