



IRM PRESS

701 E. Chocolate Avenue, Suite 200, Hershey PA 17033-1240, USA
Tel: 717/533-8845; Fax 717/533-8661; URL-<http://www.irm-press.com>

ITB14106

This chapter appears in the book, *Web Mobile-Based Applications for Healthcare Management*
by L. Al-Hakim © 2007, IGI Global

Chapter IV

An e-Healthcare Mobile Application: A Stakeholders' Analysis Experience of Reading

Niki Panteli, University of Bath, UK

Barbara Pitsillides, Nicosia, Cyprus

Andreas Pitsillides, University of Cyprus, Cyprus

George Samaras, University of Cyprus, Cyprus

Abstract

This chapter presents a longitudinal study on the implementation of an e-health mobile application, DITIS, which supports network collaboration for home healthcare. By adopting the stakeholders' analysis, the study explores the various groups that have directly or indirectly supported the system during its implementation. The system was originally developed with a view to address the difficulties of communication and continuity of care between the members of a home healthcare multidisciplinary team and between the team and oncologists often hundreds of kilometers away. DITIS evolved to be much more than that and even though it was introduced 5 years ago, it is considered a novel application. Despite this, its implementation has been slow, and several challenges, including the system's sustainability, have to be faced. This chapter aims to understand these challenges and the results of the study point to a diversity of interests and different degrees of support.

Introduction

Healthcare is an environment that has been experiencing dramatic progress in computing technology in order to process and distribute all relevant patient information electronically and overall to improve the quality of care. In particular, mobile e-health involves a spectrum of information and telecommunication technologies to provide healthcare services to patients who are at some distance from the provider and also to provide supporting tools for the mobile healthcare professional. The benefits of such mobile applications are numerous, with the main one being improvements in access to medical resources and care.

Recently, the healthcare and related sectors have been found to embrace mobile technology in e-healthcare applications. Though there have also been cases of mobile workstations being implemented at small medical units to facilitate easier access to specialist medical advice (e.g., Salmon, Brint, Marshall, & Bradley, 2000), most of the applications have been introduced to support patients at home. These could either be patient centered where patients and/or caretakers are given direct access to a mobile phone for communicating with the provider (e.g., nurse, doctor, counselor, etc.), or nurse centered where nurses who visit and care for patients at home have direct access to mobile applications for communicating with other medical staff.

It follows that the practice of e-health projects is often a collaborative activity requiring extensive and interactive communication within and between members of specialized occupational groups to coordinate patient care services. This becomes necessary when dealing with patients requiring a multidisciplinary team approach to their care, and who are treated outside the hospital environment. In such a case, the team is mostly geographically dispersed and rarely sees the patient together. This requires the creation of virtual multidisciplinary teams of care whose management and coordination can be supported by technology. In the study, we aim to explore the role of diverse stakeholders in an e-health application involving virtual multidisciplinary teams of care. Diverse stakeholders get involved at different stages of the project implementation and may experience different degrees of knowledge about the system itself, its significance, and its novelty. These along with their different backgrounds, interests, and expectations may contribute to different meanings and understanding about the system, its role, and its significance, which will ultimately affect system implementation.

15 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/chapter/healthcare-mobile-application/31153

Related Content

Emerging Trends in User-Driven Healthcare: Negotiating Disclosure in Online Health Community Organizations

Handan Victan (2013). *User-Driven Healthcare: Concepts, Methodologies, Tools, and Applications* (pp. 1589-1606).

www.irma-international.org/chapter/emerging-trends-user-driven-healthcare/73904

A Survey of Routing Protocols in Wireless Body Area Networks for Healthcare Applications

Hadda Ben Elhadj, Lamia Chaariand Lotfi Kamoun (2012). *International Journal of E-Health and Medical Communications* (pp. 1-18).

www.irma-international.org/article/survey-routing-protocols-wireless-body/66415

A Conceptual Framework of Smart Home Context: An Empirical Investigation

Ahmad Al-Aiad, Khalid Alkhatib, Muhammad Al-Ayyadand Ismail Hmeidi (2016). *International Journal of Healthcare Information Systems and Informatics* (pp. 42-56).

www.irma-international.org/article/a-conceptual-framework-of-smart-home-context/163440

RFID Applications in E-Healthcare

Mohamed K. Watfa, Manprabhjot Kaurand Rashida Firoz Daruwala (2012). *E-Healthcare Systems and Wireless Communications: Current and Future Challenges* (pp. 70-98).

www.irma-international.org/chapter/rfid-applications-healthcare/60186

The Role of Average Health Status - Health Inequalities Matrix for Assessing Impacts on Population Health in Health in All Policies

Jordan Panayotov (2015). *International Journal of User-Driven Healthcare* (pp. 1-15).

www.irma-international.org/article/role-average-health-status-health/140241