THE IMPACT OF MOBILE E-HEALTH IN THE HEALTHCARE SYSTEM NOWADAYS

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Abstract

Mobile eHealth is a growing up issue which is improving everyday life of patients, in elderly, disabled and chronically illness. The mobile devices introduced in the 90s (PDA) enabled the download of medical records and images, analysis results, and drug information. Patients used their mobile devices, which accompany them anywhere, to be aware of their condition, also monitor and control their disease. In the last years, the improvement of technology in communication, information along with mobile internet, which offers anywhere and anytime connectivity, play a key role on modern healthcare solutions. Hospitals and healthcare systems rely on these latest technology improvements to improve their healthcare service quality, safety and productivity. In this context, mobile health applications, delivers a barrier free healthcare service. According to the most recent researches, from 2010 to 2016 the telemedicine market is expected to grow up to nearly 27.3 billion dollars. The increasing number of chronic diseases related to lifestyle, the high costs of healthcare services, the need to provide direct access to health services without concerning about the time and location, are some of the emerging problems which mobile eHealth solution addresses. Healthcare is a fast-changing environment which prospers on new learning and discoveries. Medical education and continuing medical education are key issues in taking forward revolutionary new treatments and care programs. Information technology-based systems combined with new communication tools are an effective, efficient and cost-effective means to ensure that medical personnel everywhere have fast and reliable access to this.

This paper surveys the most significant researches and presents a deep analysis of eHealth services and applications proposed by industry. It also proposes some open and challenging issues on emerging eHealth solutions for further works, like data privacy and security, which is one of the major issues on managing the information that public health needs.

Keywords: mobile, eHealth, healthcare, disease, technology, application

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