

University Students' Opinions On Mobile Health And Personal Health Record Management

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Abstract

The main objective of the study is to explore the opinions of university students regarding mobile health and personal health records. On the other hand, the study also aims to determine whether these relationships vary based on personal characteristics. The data collected based on the questionnaires were analyzed using SPSS 20.0 software. Arithmetic mean, frequency, factor analysis, reliability test, independent sample test and ANOVA analyzes were used for data analysis. Analyzing the research results, it was determined that the opinion regarding the management of mobile and personal health records is generally positive. As a result, due to the positive attitude towards technology and the wide application of mobile technologies, it is understood that mobile communication technologies will be used more in providing access to healthcare services in the near future.

Keywords: Mobile health, personal health records, mobile communication technologies

In modern times, the latest changes and developments in technology have a great impact in the field of healthcare as well as in all fields. These developments are changing the traditional model of medical care to some extent. One of the technologies influencing the development is mobile technologies. The application of mobile technologies shows its effect in solving a number of problems experienced in healthcare services.

Mobile technologies play an active role in many areas of human life. With the rapid development of wireless mobile communication technologies, their increased use also affects business processes in the healthcare sector (Kim, Daim, & Anderson, 2010, pp. 925-926). The rapid adoption and widespread use of mobile devices encourages healthcare institutions and organizations to integrate these capabilities to provide safe and high-quality healthcare (Burke ve ark., 2012; Poissant, Pereira, Tamblyn, & Kawasumi, 2005, p. 505).

There are concerns about ensuring the safety of healthcare services worldwide, and ways to minimize these concerns are being sought. Recent developments in healthcare have resulted in the introduction of mobile technology in the payment of services.

The future of technology is based on the expectations, demands, thoughts, attitudes, etc. Of users. Depends on many factors such as, and of course, this is also related to the management of mobile and personal health records. Based on this, it can be said that users are one of the most important factors influencing the success of mobile and personal health record management. For this reason, this study aims to examine university students' perceptions of mobile and personal health record management and examine whether these perceptions differ according to various individual characteristics.

Mobile health. Mobile technologies are wireless devices and sensors that people can use, wear or carry in their daily lives. The development of the healthcare field in this aspect, the replacement of the traditional structure with a patient-centered structure, is defined as mobile health. Mobile health is also defined as the use of computing and communication technologies in healthcare.

Weak monitoring of patients after treatment and insufficient care can have a negative impact on the patient's condition. Mobile health provides intensive solutions for such problems. Facilitates face-to-face communication with patients, manages patient-health status, and facilitates access to health services. Mobile technologies are especially useful for the treatment of chronic diseases and the post-treatment stages. Even in the treatment of cancer, the effect is very great.

Mobile communication technologies have the ability to provide a very large amount of information. Mobile technologies have an important role to play in storing, analyzing and predicting data related to healthcare services.

In order to provide effective health services, it is necessary to determine the health profiles of different regions, and it may be important for decision-makers to identify which health requirements for which diseases come from which region. Mobile health care is an effective tool to overcome regional access restrictions and barriers to service delivery and provide health services at affordable prices.

Following are some of the positive outcomes expected from the implementation of mobile health services:

- Increasing the possibilities of using mobile health programs in the field of healthcare,
- Increasing the efficiency of doctors applying technology,
- Increasing the satisfaction of patients and their relatives,
- Increasing health-related knowledge of patients and their relatives,
- Adding a compensation section to the service, thus reducing health care costs and ensuring their financing,
- Ensuring privacy and security and finding permanent solutions to this issue.

In addition, the following are the requirements for mobile health apps:

- User-friendly interface, durability and accessibility
- Accuracy, data security, efficiency, quality, reliability
- Data loading and visualization
- Generalization

It is important to create the necessary infrastructure for the implementation of mobile health. In this regard, it can be said that governments should develop a financing model for the provision of health services based on mobile technology.

Personal health. Paper documents related to the provision of services in health services cause certain limitations for the institution and the patient. Health records management, which affects the quality, efficiency and costs of health care services, has begun to take a very different form today. Centralized patient records in healthcare facilities are linked to the rapid development of mobile technologies.

With the use of information technology in the field of health care, the management of information related to patient records has become more efficient. It is possible to say that this efficiency will increase, especially as a result of the research conducted on the integration of mobile technologies into the healthcare system.

There is a term used in the healthcare field, electronic health records, which is a slightly different concept than personal health records. Electronic health records are the electronic storage of patient information by a healthcare provider. Personal health records, on the other hand, are described as the ability for patients to monitor, manage, and share their personal health information with others in a safe and secure environment. In other words, personal health records are created by patients, not by institutions. Electronic health records are created by the enterprise.

The benefits of personal health records for patients are as follows (Endsley et al., 2006):

- Empowering the patient to manage their own health condition
- Improving communication between the patient and the institution
- Minimizing errors to increase patient safety
- Providing service quality improvement
- Better health information security measures
- Cost reduction

The possibilities and advantages offered by communication technologies in recording and storing patient data are many. However, along with the benefits offered, there are certain risks. The risks associated with protecting the security of patient records are particularly important. Negative aspects include the incorrect entry of patient data, the fact that this data becomes a systematic error, that it is very difficult to see these errors, and that unauthorized persons can access the patient's data.

Conclusion

Mobile communication technologies are considered as a potential tool in the provision of services in the

field of healthcare in modern times. About 80% of healthcare managers believe that the use of mobile communication technologies in healthcare is important. Another concept entering the healthcare field with mobile technologies is personal health records. Personal health records allow patients to access information about their health status, review health history, and manage information. The provision of health services to patients in need through new technologies is becoming prominent on a global scale. Based on this understanding, it can be said that it is extremely important that patients manage their health conditions and have the ability to live independently in terms of their intended health goals.

Mobile technologies provide many advantages in healthcare delivery. Nevertheless, it is important to conduct large-scale research on the benefits of health services and mobile health technologies.

References

- [1] Burke, L. E., Styn, M. A., Sereika, S. M., Conroy, M. B., Ye, L., Glanz, K., Sevick M.A., & Ewing L.J. (2012).
- [2] Using Mhealth technology to enhance self-monitoring for weight loss: a randomized trial. *Am J Prev-Med* 43 (1), 20-26. doi: 10.1016/j.amepre.2012.03.016.
- [3] Chaudhry, B., Wang, J., Shinyi, W., Margaret, M., Walter, M., Elizabeth, R., Morton, S. C. & Shekelle, P. G. (2006). Systematic review: impact of health information technology on quality, efficiency, and costs of medical care. *Annals Of internal medicine*, 144, 742-752.
- Endsley, S., Kibbe, D. C., Linares, A., & Colorafi, K. (2006).
- [4] An introduction to personal health records, 57-62, www.Aafp.Org/Fpm, Erişim Tarihi: 5.5.2016.
- [5] Gökay, G., Yavuz, E., Tokdemir, G., Çağiltay, N. Ve Aykac, Y. E. (2015). Kişisel sağlık kaydı sistemleri kullanılabilirlik durum çalışması. *Tıp Teknolojileri Ulusal Kongresi* 18-15 Ekim 60-57 ,2015.
- [6] Kim, J., Daim, T., & Anderson, T. (2010). A look into the future of wireless mobile communication technologies. *Technology Analysis & Strategic Management*, 22, 925-43.
- Poissant, L., Pereira, J., Tamblyn, R. & Kawasumi, Y. (2005). The impact of electronic health records on time efficiency of physicians and nurses: a systematic review. *Journal of the American Medical Informatics Association*, 12, 505-516.