

Effects of Security and Privacy on Applying Personal Mobile Health Record System: Patients' Perspective

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Abstract

Objectives: This study was carried out to identify the effects of security and privacy concerns on patients' perception in applying personal mobile health record system.

Methods: This was a cross-sectional study, in which 120 patients, who were referred to the teaching hospital affiliated with Tehran University of Medical Sciences (TUMS), were randomly selected. The Patients' perception concerning security and privacy concerns on applying personal mobile health record system was surveyed by conceptual path model of theory of planned behavior (TPB). Collected data were analyzed by using regression analysis. To test the final model, structural equation modeling (SEM) was applied. Finally, the authorized model presented by analysis of moment structures (AMOS).

Results: Results indicate that the TPB model has considerable potential in explaining the patients' perception regarding mobile health record system adoption. The findings also show that security and privacy have a strongly significant effect on the patients' perception towards applying personal mobile health record system.

Conclusions: The results of this study clearly supported that privacy and security concerns are important factors in applying new comer technologies such as mobile health record system. This study acknowledged that mobile health record system should guarantee the patients' privacy and security concerns, and this fact should be considered by health care managers and policy makers.

Keywords: Mobile Health Record System (PACS); Theory of Planned Behavior (TPB); Patients; Structural Equation Modeling (SEM)