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## A literature review on factors influencing electronic health record adoption

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The benefits of electronic health record (EHR) system in healthcare organization cannot be fully realized without nurses' adoption. Recently there has been a growing interest in exploring determining factors of nurses' EHR adoption. The aims of this review are to examine the current literature on their effectiveness of explaining nurses' intention of using EHR as well as the revealed determinants. We searched three databases in January 2015: CINAHL, MEDLINE, and Pubmed for studies reporting data on factors associated with nurses' intention of using EHR by using the unified theory of acceptance and use of technology (UTAUT) model. A total of seven studies were reviewed after database searching and subsequent screening. Results of this study concluded that UTAUT was a valid theoretical model for understanding nurses' EHR adoption which explained 28 to 72.8 percent variances in nurses' intention of using EHR. This review identified six factors associated with nurses' behavioral intention of using EHR. We ranked each factor in order by weight of overall evidence: social influence, performance expectancy, effort expectancy, facilitating conditions, trust, and self-efficacy. Developers and hospital managers should be aware of these determining factors of EHR adoption. Targeted interventions should be developed to establish if addressing the identified factors leads to greater EHR adoption. In conclusion, this review not only contributes to a better understanding of contemporary literature but also provides useful implications for nurses, researchers, system developers, and hospital managers.

### Biography

KK MAK completed his Master Degree (Health Informatics) in 2010 with dean's honor from Hong Kong Polytechnic University. He is now a doctoral student in health science at the Hong Kong Polytechnic University. He works in a Queen Elizabeth Hospital as a nurse manager who participates in nursing informatics projects.

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