

APPLICATION OF HEALTH BELIEF MODEL IN REINFORCING PREVENTION OF HIV INFECTION IN PERSON OF REPRODUCTIVE AGE

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ABSTRACT

Background: The increasing rate of HIV infections is particularly worrying. Perception of HIV as a health threat has been suggested as determinants of sexual risk behaviors among person of reproductive age. Studies have suggested that perceived susceptibility plays a critical role in improving several health outcomes. If an individual perceives susceptible to a disease, they may adopt risk reduction behaviors. The purpose of this study was to investigate perceived susceptibility in reinforcing HIV prevention behavior among person of reproductive age.

Subjects and Method: This was a systematic review and meta-analysis conducted using PICO search guide: Population (P)= person of reproductive age, Intervention (I)= strong perceived susceptibility, Comparison (C)= low perceived susceptibility, and Outcome (O)= HIV prevention. The electronic databases of PubMed, Google Scholar, and ScienceDirect were systematically searched. Keywords used the terms “Health Belief Model” OR “perceived susceptibility” OR “perceived risk” OR “risk perception” OR “perception of risk” AND “HIV” OR “HIV prevention”. The inclusion criteria were cross sectional study, English-language, full text, published between 2012 and 2022, and reported adjusted odds ratio (aOR). I² statistic tests were used to evaluate the heterogeneity between studies. Meta analysis conducted using RevMan 5.3.

Results: 9 studies involved for meta analysis. This study showed that strong perceived susceptibility increased HIV prevention behavior 1.88 time compared to low perceived susceptibility (aOR=1.88; 95% CI=1.20 to 2.96; p=0.006), with I²= 96%; p=0.001.

Conclusion: Strong perceived susceptibility increases HIV prevention behavior compared to low perceived susceptibility.

Keywords: health belief model, perceived susceptibility, HIV prevention

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