

The Impact of Simulation-based Learning on the Clinical Self-efficacy and Adherence to Infection Control Practices of Nursing Students

Authors : Raeed Alanazi

Abstract : Introduction: Nursing students have a crucial role to play in the inhibition of infectious diseases and, therefore, must be trained in infection control and prevention modules prior to entering clinical settings. Simulations have been found to have a positive impact on infection control skills and the use of standard precautions. Aim: The purpose of this study was to use the four sources of self-efficacy in explaining the level of clinical self-efficacy and adherence to infection control practices in Saudi nursing students during simulation practice. Method: A cross-sectional design with convenience sampling was used. This study was conducted in all Saudi nursing schools, with a total number of 197 students participated in this study. Three scales were used simulation self- efficacy Scale (SSES), the four sources of self-efficacy scale (SSES), and Compliance with Standard Precautions Scale (CSPS). Multiple linear regression was used to test the use of the four sources of self-efficacy (SSES) in explaining level of clinical self-efficacy and adherence to infection control in nursing students. Results: The vicarious experience subscale ($p = .044$) was statistically significant. The regression model indicated that for every one unit increase in vicarious experience (observation and reflection in simulation), the participants' adherence to infection control increased by .13 units ($\beta = .22$, $t = 2.03$, $p = .044$). In addition, the regression model indicated that for every one unit increase in education level, the participants' adherence to infection control increased by 1.82 units ($\beta = .34 = 3.64$, $p < .001$). Also, the mastery experience subscale ($p < .001$) and vicarious experience subscale ($p = .020$) were shared significant associations with clinical self-efficacy. Conclusion: The findings of this research support the idea that simulation-based learning can be a valuable teaching-learning method to help nursing students develop clinical competence, which is essential in providing quality and safe nursing care.

Keywords : simulation-based learning, clinical self-efficacy, infection control, nursing students

Conference Title : ICN 2023 : International Conference on Nursing

Conference Location : New York, United States

Conference Dates : May 15-16, 2023