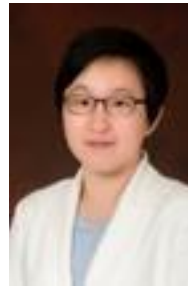# Nursing research on using simulation for undergraduate education

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Nursing is a practicing profession. Nursing students have to acquire clinical decision making and various psychomotor skills in laboratory and clinical settings. Thus, the cessation of face-to-face laboratory and clinical teaching induced significant challenges for nursing students during the COVID-19 pandemic. Nonetheless, this serves an opportunity to advance and adopt alternative teaching modes for clinical training.

Simulation-based teaching is a teaching strategy that applies simulation technique to replace and amplify real experiences with guided ones in a fully interactive fashion (Lateef, 2010). Through the support of the Teaching Development and Language Enhancement Grant, we developed and evaluated the effects of real-time online simulation module on students' capabilities and perceptions of teaching and learning.

In the real-time online simulation, case scenarios were simulated in a ward setting which was equipped with high simulation device and was delivered online. Students were actively engaged via a small group discussion on the nursing process and formulated management plans for the simulated clients, as well as making decisions upon the change of condition of the stimulated clients. In this presentation, students' and teachers' experience, as well as the effectiveness of this real-time online stimulation module will be discussed.