

25th World Congress on

NURSING CARE

July 24-26, 2017 Melbourne, Australia

Comparison of effects of face-to-face, e-learning and blended learning on children's pain management for nursing students**Ying-Mei Liu**

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E-learning and blended learning are modern innovative teaching strategies and widely used in nursing education, but their effectiveness is limited. Previous studies indicate that gaps remain in nurses' knowledge about pain in children and most teaching is delivered face to face. It is estimated that pain has affected as many as 21% to 49% of hospitalized children. Pain assessment and management is a very important aspect of nursing care of the pediatric patients. The need for implementation of effective and innovative teaching strategies is clear to examine the effectiveness among face-to-face, e-learning and blended learning paradigm on knowledge, attitude and skills in undergraduate nursing. It is an intervention study used as comparison design. 296 participants were the first year nursing students from a two-year baccalaureate nursing program at university in Taiwan. Students were randomly assigned to face-to-face, e-learning and blended learning groups. The knowledge test, attitude questionnaire and objective structured clinical examination were applied to all participants after teaching strategies. No significant differences were found among the face-to-face (n=96), e-learning (n=99) and blended learning groups (n=101) on the knowledge test, attitude scores and objective structured clinical examination. Gender was not correlated with learning effectiveness. The results of this study showed that e-learning, blended learning and classroom instruction have similar attainment outcomes for students. A more flexible pain management module should mean increasing the number of students and providing learning opportunities for those who are distant from educational institutions.

Biography

Ying-Mei Liu has completed her PhD from Chang Gung University and is actively involved in HSCT-related research initiatives. She is the Director of Division of Nursing, the largest Nursing School in Taiwan. She has received the Outstanding Teacher Award from Taiwan Association of Nursing Education.

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