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Exploring the effectiveness of using of videotaped practical exam method in nursing skill assessment and its relevant interrater reliability

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Introduction & Aim: In nursing education, evaluating students' learning outcome on the ability to perform nursing skills is an essential but a challenging process and is associated with the subjectivity of judgement.

Method: The nursing skills examination *via* videotape has been implemented as an alternative approach for a fairer and objective judgement of nursing students' performance. Following this, this study explores the use of videos for practical exam and its relevant interrater reliability with the aim that it is as reliable as and more flexible and efficient than the real-time practical exam. The respondents were 29 final year nursing students from School of Health Sciences (Nursing), Ngee Ann Polytechnic Singapore. Their performance was first assessed by direct observation or real-time assessment. Six months later, two raters assessed these students' performance *via* videos captured during the real-time assessment. An independent t-test was employed to compare the scores awarded between real-time and videotaped assessments.

Result: The results showed no significant difference between the two raters *via* videotaped assessment, real-time and videotaped assessments. The intra class correlation coefficient for all three assessors was 0.867, demonstrating high interrater reliability.

Conclusion: This study showed that the videotaped practical exam is as effective and reliability as the practical exam. It is also more flexible as raters can assess at any time they want to or at any place. The videotaped practical exam can be employed as an alternative way for assessing nursing students' performance, especially in large cohort for its objectivity and efficiency.

Biography

Li Wenjie has worked as a Senior Registered Nurse for seven years and an Educator in Ngee Ann Polytechnic to train the diploma in nursing students. She has worked as a Senior Manager in charge of all nursing skill modules and oversees the modules academic quality, monitors and ensures the consistency in teaching and assessment.

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