PII-16: Effectiveness of an Evidence-based Information Literacy, Nursing Informatics, and Information Technology Educational Intervention for Nurses

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Introduction: The aim of this study is to explore the effectiveness of an educational intervention (LISTEN Project [Learning Information Seeking and Technology for Evidence-based Nursing practice]) among nurses in the clinical setting. The research questions are: 1) does an educational intervention focusing on information technology (IT), information literacy (IL), and nursing informatics (NI) skills in support of evidence-based nursing practice (EBNP) positively affect participants’ opinions of EBNP and personal EBNP abilities? and 2) what are participants’ IT/IL/NI competency levels? This project is significant since all nurses must provide evidence-based care, however, many nurses do not know how to seek, access, evaluate, and apply evidence-based information.

Method(s): A one-group pretest-posttest design will be used to evaluate the effectiveness of the LISTEN intervention available to all nurses at an acute care hospital in Memphis, TN. The intervention is delivered in one of three ways: synchronous face-to-face scenario, asynchronous online scenario, and asynchronous online tutorials. Questions embedded in the scenarios measure IT/IL/NI competencies, while brief presentations address competencies in the tutorials. All participants receive a 24-item pretest (including demographics) prior to the intervention and a
16-item posttest (including evaluation) after the intervention. Questions on the pre- and post-tests are modified from the *Evidence Based Practice Questionnaire* and provide data on EBNP opinions and personal EBNP.

**Results:** Data collection has begun and will continue through June 2010. Descriptive statistics will be used to report pretest-posttest results and scenario responses. Further analysis will be performed using t-tests to determine differences in pre- and posttest data. Project evaluation responses will be grouped and analyzed using Kirkpatrick’s 4 Levels of Evaluation.

**Discussion & Conclusions:** Research suggests that programs dedicated to enhancing IT/IL/NI competencies improve nurses’ use of evidence-based information. However, these programs have not been systematically researched and many have not used objective measures. LISTEN offers an evidence-based approach to delivering IL/IT/NI competencies and objectively measuring these skills.

**Abstract History:**
This abstract has not been presented or accepted for presentation in whole or in part at the SNRS or other scientific meeting.

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