

Nursing Student Acceptance of Technology Learning Devices: A Preliminary Study

Zu-Chun Lin¹ Shu-Fang Wang¹ Mann-Chian Wu²

Abstract

Background: The rapid development of technology learning devices such as the MP4 player, iPhone and tablet PC has revolutionized education. **Purposes:** This pilot test compared levels of nursing student acceptance of two technology combinations. The first used an MP4 player, computer and e-learning platform; the second used a computer and e-learning platform only. **Methods:** Researchers recruited 80 participants who were assigned randomly to experimental and control groups. The Technology Acceptance Inventory (TAI) and Demographics Inventory (DI) were used to collect data completion of the intervention. **Results:** The experimental group scored significantly higher in perceived TAI usefulness. There were no significant differences between the groups in terms of overall technology acceptance level or other TAM's sub-concepts. **Conclusions and Recommendations:** Preliminary analysis found the experimental group had higher perceived usefulness, indicating they had positive perceptions of MP4 player flexibility, convenience, and helpfulness. However, researchers found no significant difference in overall TAM or sub-concept scores. Future research should address issues such as equipment availability, learning material functionality, borrowing policy convenience, inclusion of pre-test, multiple learning device utilization, and correlations between devices and learning outcomes.

Key words: E-learning, information technology integrated instruction, technology learning device, technology acceptance level.

¹ PhD, RN, Associate Professor, Department of Nursing, Tzu-Chi College of Technology.

² MSN, RN, Lecturer, Department of Nursing, Tzu-Chi College of Technology.

Received: Mar. 19, 2010 Revised: May 18, 2011 Accepted: May 31, 2011

Address Correspondence to: Mann-Chian Wu No. 880, Sec. 2, Chien-Kuo Rd., Hualien 970, Taiwan (R.O.C.)