

3937424 EGTI/M : MAJOR : TECHNOLOGY OF INFORMATION SYSTEM  
MANAGEMENT; M.Sc. (TECHNOLOGY OF INFORMATION  
SYSTEM MANAGEMENT)

KEY WORDS : CAI / COMPUTER-ASSISTED INSTRUCTION / MULTIMEDIA /  
CPR / CARDIOPULMONARY RESUSCITATION

VORAWAN VANICHAROENCHAI : THE DEVELOPMENT OF MULTIMEDIA  
COMPUTER-ASSISTED INSTRUCTION ON CARDIOPULMONARY RESUSCITATION  
FOR NURSING STUDENTS. THESIS ADVISORS : ASSISTANT PROFESSOR  
THIRAPORN RUBWMINTARA Ph.D., ASSISTANT PROFESSOR YUWADEE  
WATTNANON Ph.D., WORAWIT ISRANGKUL M.S. 190 p. ISBN 974-661-760-5

The purpose of this study was to develop multimedia computer-assisted instruction lessons with procedural content in cardiopulmonary resuscitation. The effectiveness of the methods used to develop the lessons, and the resulting lessons' educational value were assessed. The opinions of a sample group towards the multimedia computer-assisted instruction lessons were also investigated. Subjects were 50 students studying in their fourth years at Siriraj Nursing Faculty, Mahidol University. The experiment took place in two parts. Part one was the teaching of basic cardiopulmonary resuscitation and part two was advanced cardiopulmonary resuscitation. Subjects were tested with parallel tests. The subjects did pretest prior to instruction and posttest immediately after finishing the lesson. The scores of pretest and posttest were analyzed by using statistical methods. Opinions towards multimedia computer-assisted instruction lessons were evaluated using information gathered with a questionnaire.

Results showed no significant difference in students' learning between parts one and two which were developed using the same instructional strategies. Moreover, there was significant difference between students' pretest and posttest scores for both sections. Students had positive opinions towards multimedia computer-assisted instruction lessons. The subjects were able to understand the content easily, and their knowledge in the subject increased.