RATREE PANPHINIJ : EFFECTIVENESS OF USING COMPUTER ASSISTED INSTRUCTION (C.A.I.) TO SUPPORT SELF STUDYING OF THE SECOND YEAR PHARMACY STUDENTS IN SECTION OF TISSUE CULTURE, DEPARTMENT OF PHARMACOGNOSY, FACULTY OF PHARMACY, MAHIDOL UNIVERSITY. THESIS ADVISOR : PHANIPHA CHUMSRI M.S.(PHARMACOGNOSY)NUCHAREE PUTRASRENI M.Sc. (MEDICAL ART & COMMUNICATION) NARONG SURINSONG M.Sc. (MEDICAL ART & COMMUNICATION) WEENA JIRACHARIYAKUL Dr.rer nat.(PHARMACEUTICAL CHEMISTRY) 72 p. ISBN 974-589-582-2

The purpose of the study is to develop a lesson using Computer Assisted Instruction (C.A.I.) on the improvement of medicinal plants by biotechnology. The effectiveness of using such C.A.I. could be determined by comparing the test scores of students who learned from the C.A.I. lesson and those learned from other study materials before and after the study . The comments from the students were also used for the C.A.I. evaluation. Thirty-one pharmacy students in their second year with a GPA of 2.5-3.0 were divided into two groups. One group learned the subject from the C.A.I. lesson, the other one from the ordinary study material. The scores from the pre-test and post-test and the comments on the C.A.I. were collected. The analysis was done using descriptive statistics, t-test and the Kruskal Wallis. The results show that the score of the C.A.I. group was significantly better than the ordinary group. The students preferred the C.A.I. lesson. The C.A.I. lesson was thus the more effective instruction tool for pharmacy students.