

UNIVERSITI TEKNOLOGI MARA (UiTM)

**THE INCORPORATION OF COMPUTER-AIDED LEARNING
(CAL) MATERIAL FOR MEDICINAL CHEMISTRY TEACHING
IN THE INFECTIOUS DISEASE AND
PHARMACOTHERAPEUTICS SUBJECT**

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**Dissertation submitted in partial requirement of the requirements
for degree of Bachelor of Pharmacy (Hons.)**

Faculty of Pharmacy

2013

ACKNOWLEDGEMENT

In The Name of Allah, The Most Gracious and The Most Merciful.

First and foremost, I would like to offer my special thanks to my supervisor, Dr. Mohd. Zulkefeli Bin Mat Jusoh. Without his continuous encouragement and guidance, I would not be able to complete this thesis and also my research. His motivation helped me in all time of this research and thesis writing, since the first day I started my research last year.

My deepest appreciation also goes to my side by side friends in completing this research and thesis, Faridah Binti Mohd Yunos and Mohamad Hanif Bin Mohamad Kashim because they were always with me and helped me in many ways that they can.

I have been blessed because I have got the best and coolest buddy, Mohd, Izwan Bin Mohd. Musai. Without fail, he always is there for me. Little appreciation also goes to my little dear, Muhammad Asri Bin Mohd. Izwan because being the precious one and motivation for me at all time.

Last but not least, greatest debt that I owe from this two great people since my first day in the womb. They are my mother, Abidah Binti Jantan and my late father, Abd. Ghapar Bin Hassan.

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ABSTRACT

How long Medicinal Chemistry subject has been taught in Faculty of Pharmacy of UiTM? And how hard the lecturers and also the students tried to give their best in increase understanding in Medicinal Chemistry subject? It seems like we will never get the solutions for the problems with less understanding towards Medicinal Chemistry subjects among students if the method of teaching these subjects remain forever. Computer Aided Learning (CAL) program is the best solution for this problem. It is a presentation of Medicinal Chemistry in more attractive, full of information, simplest way and in convenience manner of delivering these subjects to the students. CAL program was developed in a video form, and the content is adopted from second year subject, which is Medicinal Chemistry of Infectious Diseases and Pharmacotherapeutics. An entry survey was conducted before the trial of the program by the students, and it was found that students have the interest in learning Medicinal Chemistry subject but difficult for them to understand and memorize it. The students were asked to use the program and answer some questions in a trial session that was conducted in Computer Laboratory 2, Level 5 of FF2. Upon completion of the trial session, they had filled in the exit survey form, and from this form, an evaluation has been made to identify whether this program is suitable or not to be implemented in the current teaching methodology of Medicinal Chemistry subjects. The result is yes!

CHAPTER 1

INTRODUCTION

Today, current pharmacy □ students have facing difficulties in learning medicinal chemistry and relating it to the practice of pharmacy in hospitals and community. Lecturers? of medicinal chemistry have sometimes facing a difficult situation and struggling as hard as they can to open the eyes of their students about the importance and relevance of this subject. Lecturers in Medicinal Chemistry have thought that knowledge in this subject will increase pharmacist □ understanding in drugs mechanisms and interactions for better communication among the medical team (comprises of doctors, nurses, dieticians and etc).

Recent teaching methodology on medicinal chemistry is found not so effective and cannot improve students? understanding in learning it. With the advanced technology that is bombarded today, I had created new teaching methodology that can be installed in students? personal computer. By this way, it can decrease the amount of time that need to be spent in class and can see more passive students shifting towards active students. In fact, students also have a flexible time to learn medicinal chemistry at their own place and if they are forgotten something related to the subject, they can easily refer back to their personal computer or their smart phones.