

**“A SURVEY ON KNOWLEDGE, AWARENESS AND PRACTICES  
ON MEDICATION STORAGE AMONGST DIPLOMA STUDENTS  
OF UITM PULAU PINANG.”**



اَوْنُوْرَسِيْتِي تِي كُنُوْ لُو كِي مَارَا  
UNIVERSITI  
TEKNOLOGI  
MARA

**DIPLOMA IN PHARMACY IN THE  
FACULTY OF PHARMACY,  
UNIVERSITI TEKNOLOGI MARA  
PULAU PINANG**

**PREPARED BY**

**AUDREY HYLDA ANAK AHONG  
NOOR AZIZAH BINTI AHMAD DAUD  
NORALIYAH LIYANABINTI MOHD FADZIL**

**JUNE 2014**

## ACKNOWLEDGEMENT

First of all, we would like to thank to all those who gave us the chances to conduct and complete this research as our final project in completing Diploma in Pharmacy course at UiTM Pulau Pinang.

We would like to express our gratitude to our supervisor, Dr Maryam Farooqui and Che Noriah Othman. Their fresh ideas, experiences and guidance had help us a lot in doing this research. We also like to express our gratitude to other lecturers of Faculty of Pharmacy in Pulau Pinang for their advices and comments about our research.

Lastly, thank you so much to our beloved friends and family members who had given their full support and also to those who had involved directly or indirectly to finish this project.

# TABLE OF CONTENT

Acknowledgement	II
Table of Contents	III
List of Tables	IV
List of Figures	IV
Abstract	V
<b>CHAPTER 1 INTRODUCTION</b>	<b>1</b>
<b>CHAPTER 2 LITERATURE REVIEW</b>	<b>2 -5</b>
<b>CHAPTER 3 AIM AND OBJECTIVES</b>	<b>6</b>
<b>CHAPTER 4 MATERIALS AND METHODS</b>	<b>7</b>
4.1 Study Design	7
4.2 Study Subject	7
4.3 Data Collection	7-8
4.4 Data Analysis	8
<b>CHAPTER 5 RESULTS AND DISCUSSION</b>	<b>9</b>
5.1 Result	9-17
5.2 Discussion	18-20
<b>CHAPTER 6 CONCLUSION</b>	<b>21</b>
<b>REFERENCES</b>	<b>22</b>
<b>APPENDIX</b>	

## ABSTRACT

**Introduction:** The level of students' awareness towards the medication storage have been explored.

**Objective:** This study focuses on how much the students knowledge on medication storage.

**Methodology:** This study was conducted at University Teknologi Mara (UiTM) Pulau Pinang involving Diploma students who were selected for the study from August to September 2014. They were given a set of questionnaire to be answered. The focus of this study was to relate their demographic factors which are ages, gender and race with the level of medication storage knowledge. From the 200 filled questionnaires we managed to collect, we went through all of them and key in them into SPSS for analysis. Results were presented in the form of table and graphs. Expectedly, most of them (69%) were aware of medication storage practices and they knew the way of proper storage. However another 31% (n=62) of the respondents require further awareness program to increase their awareness level on medication storage.

**Conclusion:** This finding suggests that a small percentage (31%) of respondents are still lack in the knowledge of medical storage and needed to be educated via various campaigns. This result hope will help the health policy to their information on the knowledge and practices on medication storage among UiTM students at UiTM Pulau Pinang.

# CHAPTER 1

## INTRODUCTION

Knowledge and practices on proper storage of medications ensures optimum efficacy, stability and safety. Proper storage of medication also entails proper storage site, use of correct containers, maintaining proper labeling of all medications and record keeping. Medication storage by health personnel has been guided by their study in becoming health practitioner. However, this knowledge of medication storage is limited only to them but not to the public. Thus, the lack of knowledge concerning medication storage may endanger the public especially university students.

Storage of medicines is an important procedure in medical care as it helps to keep the medicine effect to the maximum. Storing of medications need to consider many factors such as light exposure, suitable temperature, keeping out of reach from children and securely locked. The proper storage for medication is important because improper medication storage will have serious consequences such as it may change the physical and chemical effect of the medications. In addition, it may also cause accidental ingestion, misuse or abuse by others.

Information on the knowledge and practices on storage and organization of various medications is lacking especially among university students. Medicines are either being purchased with or without prescriptions by university students and are stored at different places in their dormitory. Some places in their dormitory are not suitable for keeping drugs such as bedrooms, bathrooms, drawer and bags. Such unsuitable storage place will expose the medicines to humidity and high temperature. These conditions may accelerate the degradation and expiration of the medicines.