



UNIVERSITI TEKNOLOGI MARA

**A STUDY ON RETURNED MEDICINE IN INPATIENTS PHARMACY
AT HOSPITAL TUANKU FAUZIAH**

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FACULTY OF PHARMACY,
UNIVERSITI TEKNOLOGI MARA
PULAU PINANG**

APRIL 2009

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Submitted in part fulfillment for the Diploma of Pharmacy in the
Faculty of Pharmacy,
Universiti Teknologi MARA
Pulau Pinang

April, 2009

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Universiti Teknologi MARA
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ABSTRACT

This study was carried out to identify and calculate the returned medicine from medical wards, determine the factors that lead to returned medicines, investigate the estimated cost of returned medicines from medical wards and suggest the appropriate solutions in reducing quantity of medication return. A random sample of returned medicines from medical wards was used in this study. The returned medicines were collected from four medical wards (4th Floor, 5th Floor, Ward 1 and Class 2 Medical) in Hospital Tuanku Fauziah based on inclusion and exclusion criteria over a period of two month (October-November 2008). A questionnaire was designed to evaluate reasons for returned medicines and these questionnaires were distributed to staff nurses from medical wards. A total of 16777 tablets/capsules were supplied to medical wards. From 16777 tablets/capsules, 9998 tablets/capsules were returned to inpatients pharmacy and 1950 tablets/capsules could not be reused. 5th Floor exhibited the main in medication supply (7512), medication return (4459) and non-reusable (811). In the meantime, cardiovascular drugs was the highest for medication supply (7274), returned (4478) and non-reusable (687) whereas genitor-urinary was the lowest rate for supply, returned and non-reusable medicines. The estimated total cost of the medications supply was RM3575.24. The cost of medication return was RM2053.80 and non-reusable cost was RM230.20. The main reason why drugs were returned was the change of therapy by physicians (86.25%) followed by 71.25% of the case was due to patients discharged. 63.75% responses stated change of drugs dose by physicians as one of the reasons. One the other hand, reason stated as 'other' was the lowest factor which contributed 21.25% responses. In conclusion, the study fortified the importance of analyzing return or unused medicines in order to establish method to diminish medication return and to reduce unnecessary health expenditure in our country. It also highlighted the inadequacies of the Perlis health system in the areas of prescription, dispensing and use of medicines.

ACKNOWLEDGEMENT

Assalamualaikum w.b.t

First and foremost, Alhamdulillah, thanks to Allah S.W.T because of His blessing through out this project we can complete it smoothly and perfectly. We would like to thank our respective dean, Prof. Dr. Abu Bakar bin Abdul Majeed for his concern and guidance on the project during his visit to Hospital Tuanku Fauziah. A special thanks to our visiting lecturer, Mr. Azwandi bin Ahmad and other lecturers for their guidance in helping us to complete the challenging and tough task.

We expressed our deepest gratitude to our supervisors, Pn. Roziah bt. Mamat @ Ismail and Cik Hazlin Syafinar bt Hussein who always took part and sacrificed their time and also shared their idea in helping us during the process of completing the task. Without their supervision, we might not be able to finish this task and our courses. Special thanks also to all pharmacy staff in Hospital Tuanku Fauziah especially our advisor, Mr. Abas bin Tajab. We are grateful to them for being so nice and helpful in giving us valuable knowledge and skill during our attachment for practical training. We appreciate them for being so charitable and tolerance with our behavior during our attachment there. All of your guidance will be kept in our mind and will be used theoretically for our future.

In addition, thanks to all the staff nurses who lend us the time and cooperate with us in completing the questionnaire. Without their help, this report will not be accomplished.

Last but not least, we are very grateful to our parents for their support in terms of time, money and giving us so much valuable lessons and information. Last of all, we hope you will enjoy when reading our project report.

Adibah Binti Hairuddin

Wan Nur Bashirah bt Wan Mahamad

Nurul Izyan bt Bustamam

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