

**UNIVERSITI TEKNOLOGI MARA**

**HOME MEDICATION REVIEW IN  
PATIENT WITH PSYCHIATRIC ILLNESS:  
WHAT ARE THE IDENTIFIED DRUG  
RELATED PROBLEMS?**

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## ABSTRACT

Drug-related problems (DRPs) are common in patients who involved in Home Medication Review (HMR). The objectives of this study are to characterize the DRPs experienced by patient with psychiatric illness in HMR service and to describe the HMR pharmacist's interventions and outcomes for identified DRP. A total of 54 subjects were included in the present study. Data was collected retrospectively by reviewing the HMR document. Out of 54 subjects, a total of 70 DRPs were identified. The DRPs were classified based on Pharmaceutical Care Network Europe (PCNE) classification. Adverse reactions (non-allergic) was reported as the most prevalent DRPs (32; 45.7%), followed by untreated condition (17; 24.3%) and effect of drug treatment not optimal (8; 11.4%). The major causes of these DRPs were inappropriate drug (14; 20%), followed by twelve (17.1%) patients forgot to use or take the drug as well as synergistic or preventive drug required and not given (11; 15.7%). Pharmacist intervened on the identified DRPs by mainly spoken to family member or caregiver (15; 21.4%), providing patient (medication) counseling (13; 18.6%) and referring patient to prescriber (12; 17.1%). Forty three (61.4%) of the identified DRPs was totally solved followed by 7 (10%) with not known outcome. Also, 5 (7.1%) problems were not solved due to lack of patient cooperation. In conclusion, the pharmacist plays a vital role in the HMR service for patient with mental illness by identifying and managing DRPs among patients.

# CHAPTER 1

## INTRODUCTION

### 1.1 BACKGROUND OF STUDY

Home Medication Review (HMR) is a patient-oriented process which offers the desired therapeutic effect and quality use of medication at the patient's home. It includes a systemic appraisal of the patients medication in such a way to determine and meet the medication related needs and subsequently to single out the drug related problems that may occur as well as how to prevent it (MOH Pharmaceutical Services Division, 2012; White *et al.*, 2012). Basically, the main objectives of HMR are to provide the better health outcomes and improve the quality of patients' lives. The proper, safe and sagacious use of medication is one of the important factors that a pharmacist needs to give attention to ensure patient can receive a good quality of use of medication.

Normally, patients who have more than one chronic diseases, the elderly and patients with psychiatric illness may be enrolled to this service (MOH Pharmaceutical Services Division, 2012). Like patients with psychiatric disorder, they receive various medications for drug treatment. They are having mental disorder like depressed, frightened, anxious or other psychiatric emotions being dominated in their lives (Sayce,