

## C775187 : MAJOR PHARMACY

KEY WORD:

ANTIEPILEPTIC/DRUG MONITORING/PEDIATRIC PATIENT  
WARUNEE BOONRANAWICHEN : ANTIEPILEPTIC DRUG MONITORING IN  
PEDIATRIC PATIENTS AT SRINAGARIND HOSPITAL, KHON KAEN.  
THESIS ADVISOR : ASSOC. PROF. RAWADEE DHUMMA-UPAKORN,  
CO-ADVISOR : ASSOC. PROF. SOMPON TASSNIYOM, MD. 189 PP.  
ISBN 974-634-866-3

The objective of the study was to implement the suitable model and guidelines for clinical pharmacy practice by using antiepileptic drug monitoring in pediatric patients as case study. The pharmacist was involved in the process to identify, resolve and prevent drug related problems. Fifty three patients participated in the study throughout the process from December 1995 to June 1996 : 19 cases were inpatients and 34 outpatients.

There were 153 problems identified in in-patients : 69 problems were resolved and prevented and 84 problems needed further drug therapy monitoring. The second follow - up problems (average  $1.1 \pm 1.1$ ) were shown to be significantly decreased ( $P < 0.05$ ) when compared with initial follow-up problems. (average  $1.1 \pm 1.1$ ).

There were 136 problems identified in out-patients : 50 problems were resolved and prevented and 86 problems needed further drug therapy monitoring. The second follow-up problems (average  $0.9 \pm 1.1$ ) was shown to be significantly decreased ( $P < 0.05$ ) when compare with initial follow-up problems. (average  $1.8 \pm 1.5$ )

Evaluation of the parents and/or the patients of both in- and out-patients in the their understanding of drug use in categories of importance of drug use on disease, adverse drug reactions, dose missing and drug storage , showed that they were improved significantly ( $P < 0.05$ ). Epilepsy was also found to affect both parents and the patients on their lifestyles and economics.

In conclusion, the model and guidelines implemented were successful in the clinical pharmacy activities and able to decrease problems encountered in each process.

ภาควิชา.....เภสัชกรรม.....ลายมือชื่อนิสิต.....ทศ. นรตวีใจ  
สาขาวิชา.....เภสัชกรรมโรงพยาบาลและคลินิก.....ลายมือชื่ออาจารย์ที่ปรึกษา.....วศ. อรรถกุล  
ปีการศึกษา.....2539.....ลายมือชื่ออาจารย์ที่ปรึกษาร่วม.....น. น.