

**Thesis Title** Implementation of In-patient  
Monitoring System on Antimicrobial  
Drugs by Using Patient Medication  
Profile

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#### ABSTRACT

A demonstration project for the in-patient anti-microbial drugs monitoring system by the use of patient medication profile was developed and evaluated. The project was composed of five stages; patient selection, monitoring of medication errors, detection of adverse drug reactions and related problems, calculating of return drugs, and discharged patient counselling. From two hundred patients attended this project, the evaluated results showed that the project had a positive impact on their drug usage. Prescribing errors and transcribing errors were corrected for 91.89 percent. Detecting and managing adverse drug reactions were proved to be functioned; 32 adverse drug reactions, compared with 1 problem as noted in the patient medical record prior to this project. The return drug value per case was found to be at an average of 88.56 bahts, compared with that of 13.96 bahts per case in the former system. Forty four

cases of other drug-related problems were found as a by-product of the project operation.

However, drug interaction problems affected from prescribed drugs is the only issue that cannot be controlled.

The project was proved to be well monitored achieving efficiency and effectiveness. The cost of each patient found to be 71.80 bahts, and 88.64 bahts per case of the beneficiaries. Ninety eight percent of the patients were found to be satisfied with the service given to them. All of the physicians and the nurses were satisfied with the project. Experts in clinical pharmacy agreed with the standard procedure and instruction manual of the project, by giving a total average grade of 78.29 percent. However, some minor improvement was suggested.

The drug monitoring system to detect and prevent potentially drug problems with the aid of patient medication profile has been successful.