

Thesis Title Intensive Hospital Monitoring of
Adverse Drug Reactions

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ABSTRACT

The main objective of this study is to obtain the incidence of adverse drug reactions in Thai-hospitalized patients. Adult patients in Medical ward at Charoenkrung-pracharak hospital were monitored to observe adverse drug reactions during the period of six months (June 1, 1990 to November 30, 1990). Monitoring procedures were performed by reviewing each patient's chart to obtain patient's general data, medication records, laboratory results, and progress of signs and symptoms during their entire hospital stay in the Medical ward.

As a result of the study, among 746 patients admitted in that period, seventy-five adverse drug reactions were identified in fifty-eight patients, which was 7.77 %. Antimicrobials and central nervous agents were the first and the second cause of adverse drug reactions, respectively. The manifestation of adverse drug react-

ions found was mostly involved gastrointestinal system and central nervous system as the second. About the degree of severity, most of them were mild to moderate. Most of adverse drug reactions were due to their pharmacological effects. The relationship between adverse reactions and suspected drugs were evaluated as probable level at about 53.33%. There was no sex difference in the incidence of adverse drug reactions. Number of drugs received, age, and the length of hospitalization were found to be significantly different between patients experiencing adverse drug reactions and those not. The geriatric patients, and patients with polypharmacy were at increased risk in developing adverse drug reactions.

The surveillance for adverse drug reactions should be performed in patients with high risk and especially in patients receiving drugs with narrow therapeutic index. Study of adverse drug reactions by means of intensive hospital monitoring as in this study will increase adverse drug reactions information, which supports the policy of the National Adverse Drug Reactions Monitoring Centre (NADRMC) of Thailand.