

## C417378 : MAJOR COMPUTER SCIENCES

KEY WORD: ADVERSE DRUG REACTIONS/DRUG INTERACTIONS/RETRIEVAL SYSTEM  
SURASAK YUTITUMNON : DEVELOPMENT OF THE ADVERSE DRUG REACTIONS  
RETRIEVAL SYSTEM. THESIS ADVISOR : ASSOC. PROF. KRAIVIJIT TANTIMEDH,  
ASSOC. PROF. SUKANYA JESADANONT, Ph.D. 110 pp., ISBN 974-583-762-2

The objective of this research is to develop a text database system for collecting and retrieving adverse drug reactions data e.g. side effect, overdose, drug toxicity, drug allergy, idiosyncrasy, etc. and drug interactions data on a microcomputer.

This adverse drug reactions retrieval system provides adverse drug reactions data and related informations for hospital pharmacists, community pharmacists, students or others in Thai health professionals. This system can rapidly search adverse drug reactions data, check drug interactions, check the appropriate use of medicines by patients and the probable causes of certain adverse drug reactions.

This system was developed as two major subsystems. First, the preparing and loading subsystem is used for loading all data files that are prepared by users in text file format into the database, compressing adverse drug reactions data, creating an inverted indexed file of adverse-reactions terms and updating all others system indexed files. Second, the inquiring subsystem is used for checking drug interactions and retrieving adverse drug reactions data through drug names or adverse-reactions terms requested by users.