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The objective of this study is to develop the prototype of a clinical pharmacology database system for recording and retrieving drug information and other related data. The recorded drug data are generic name, brand name, chemical structure, color photograph, description, mechanism of action, pharmacokinetics, indication, contraindication, adverse reaction, product identification, classification of drug, drug interaction, and drug manufacturer. The designed database follows the relational database model and consists of a drug database and a user database that are arranged in third normal form (3NF). Applications used for development of the system were Visual Basic 4.0, Microsoft Access'97 and Seagate Crystal Report 6.0. The system has four main functions: querying, updating, reporting, and maintain user details. The security of the system is made up to two levels: database security level and application security level. Questionnaires were used for testing the system. The system was tested by pharmacists from the Faculty of Pharmacy, Mahidol University. The testing results show that users were satisfied with the system.