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(TECHNOLOGY OF INFORMATION SYSTEM MANAGEMENT)

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JONGDEE NAVAMAVAT: INFORMATION SYSTEM DEVELOPMENT FOR MANAGEMENT IN I.C.C.U. WARD, DIVISION OF CARDIOLOGY, SIRIRAJ HOSPITAL. THESIS ADVISOR: SARANYA SUTJARITKUL, M.Sc. SURA PATTANAKIAT, M.Sc. 119 p. ISBN 974-661-056-2

The objective of this thesis is the creation of prototype information system for management in I.C.C.U. ward, the Division of Cardiology, Siriraj Hospital, by application of computer knowledge approach. This approach includes system analysis, system design and development, software development and database system design by using E-R (Entity Relationship) Model.

The research methodology utilizes the principles of system development with the composition of: 1) problem identification and feasibility studies; 2) user requirements, 3) system analysis by using context diagram, dataflow diagram (DFD) and data dictionary; 4) system and database details design by using E - R (Entity - Relationship) Model and normalization; 5) application design and programming by using software, namely Microsoft Access version 7.0 and system evaluation; 6) system testing and implementation; 7) preparation of handbooks; and 8) conclusions and discussions.

The result of this research is shown in 4 parts: 1) database model; 2) graphic user interface; 3) application and documents; and 4) document of this research.

This information system prototype is expected to become a useful tool for the management and planning of the I.C.C.U. ward. The information system may also be applied to improve efficiency in other, similar medical departments.