

48309333 : MAJOR : INFORMATION TECHNOLOGY

KEY WORD : INFORMATION TECHNOLOGY

ISARA YAMNGAMLUE : DEVELOPMENT OF TRIAGE EXPERT SYSTEM : A CASE STUDY OF FACULTY OF MEDICINE SIRIRAJ HOSPITAL. THESIS ADVISOR : SUNE PONGPINIGPINYO, Ph.D. 184 pp.

The aim of this research was to develop an expert system of triage system for the screening of patients. It was conducted at the Faculty of Medicine Siriraj Hospital. The initial task was the systematic collection of knowledge about the screening and separation of patients. This information was obtained from medical and nursing professionals. It included medical information about patients from emergency and other field workers in the hospital, as well as isolated patients. In addition, the data collection extended to the process of patient inquiry and procedures for examination to diagnosis unit.

The development was based on showing know-base rule (Rule-base System), using the technique assumes a forward (Forward Chaining) by division into two parts. The Primary Triage screened patients within Level 1 and Level 2 while Secondary Triage divided isolated patients to clinical samples to diagnosis unit.

The expert system developed as a result of this research has been successful in a number of ways. When compared to nurse examinations it has been shown to be highly accurate in making a diagnosis. In turn this has served to further increase the accuracy of the knowledge base. Finally, the system is now used as a tool to support nurse training in patient screening, where it has proved effective in arriving at a more accurate diagnosis.

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