

## ABSTRACT

*"As the society becomes increasingly dependent on computers, the demand for software system grow to be more complex than probably any other human artifact"*

[Demirors et al., 1992]

This dissertation presents a system for keeping track of medical expertise as well as demonstrates the integration of different tools in a single application. MediX, a system to keep track of medical expertise, maintains the records of medical expertise, medical centres and specialties. MediX uses reporting, statistical, database, and authoring tools that are integrated in a programming package running under an operating system. MediX is a client/server-based system that has many significant features.

MediX provides the tools necessary to view existing information in new forms and combinations. These include generation of reports, charts and graphs as well as statistical computing, all in a single application. The health care administrators can present the results of calculations and information processing in clear, concise and meaningful formats. In addition, MediX assists users in their search for information by providing details of the medical expertise.

This study employs two modes of research activities comprising of survey questionnaires and interviews. These two methods were used to gather information pertaining to the project. The survey and interviews were conducted on the medical centres in Malaysia.

An evaluation of the usefulness of MediX to the medical community as well as to the general population was also undertaken. The results show that MediX is well accepted by all of them. Hence, MediX can make IT's contribution with respect to the quality of health care. In addition, MediX has proved that it is possible to integrate various tools in a single system.

In short, this study plays a crucial role in promoting the development of a health care information system and the integration of different tools.