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WITSANUCHAI SRIJARIYA: STUDY OF COMPUTER NETWORKING
SYSTEM AT NAKORN-THAI CROWN PRINCE HOSPITAL, PHITSANULOK:
THE ASPECT OF MANAGEMENT. THESIS ADVISORS: THAWEESEKDH
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The objectives of this descriptive and retrospective study were to define the budgeting and the setup process of the computer network system at Nakorn-Thai Crown Prince Hospital, Phitsanulok. Data were collected from documents, questionnaires from the network end users, and in-depth interviews with the network director. The study was divided in to three parts: 1) network implementation and management, 2) managing quality of hardware and software and it's applications, and 3) budget plan and expense of computer networking system. Data was analyzed though descriptive analysis.

Part I, network implementation and management results revealed that the network project was planned by the hospital committee. The plan was composed of budgeting and information technology data. The information technology plan had no clear objective. This weak point made the administrator unable to use the information technology data. The paper medical record system was a duplicate work to the computerized system. There was a lack of training for network end users. The hospital had a group to control the network system. *Part II*, managing quality of hardware and software and it's application results revealed that the network design was primarily based on the pre-existed computers. The hospital's computer committee selected the software without consideration of the hardware. The memory was not large enough for medical record data but could be upgraded at a low price. *Part III*, budget plan and expenses of the computer networking system results revealed that the setup and maintenance expenses of the computer network since 1996 to 1999 were 1,767,531 baht. The hospital has had no long term budget plan since 1996.

These findings show that the main problem of computer network management was the paper recording data system. It could not reach the objective of a "paperless medical record system". The results of this study can be used by other community hospitals when they want to implement a computer local area network.