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TANYADA MONGKOL: DEVELOPMENT OF A Y2K REMEDIATION PLAN
FOR MEDICAL DEVICES : A CASE STUDY OF CRITICAL DEPARTMENT,
RAJAVITHI HOSPITAL. THESIS ADVISORS : THANAKORN UAN-ON, D.Engr.,
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The arrival of the year 2000 may cause serious problems in computing systems. Using a two digit field to express the year, many computers will not be able to differentiate between the year 1900 and 2000. This will cause errors in data processing. Today computers play many important roles in health care services, including being used in medical devices. Mistakes may affect human life.

A Y2K remediation plan was developed in order to solve the Y2K problem in medical devices. The methodology named Strategic Information System Planning (SISP) is used in the plan which consists of : 1.) Developing an over all strategic plan for medical devices.; 2.) Developing a resource management plan, estimation of manpower and budget modification using Manday (MD).; 3.) Developing an operation plan, steps of operation plan are modified from AARRV process.; 4.) Developing a contingency plan, NHS contingency plan of NHS State, a consultant of Department of Health in United Kingdom.

The output of this research is a Y2K remediation plan for medical devices consisting of :1.) Strategic plan, developed according to the National Y2K Coordinating Committee. The strategic plan is developed in order to solve medical devices' Y2K problem in Y2K Supercritical Group.; 2.) Resource management plan, estimation of human resource and budget for the project.; 3.) Operating plan, transformed strategic plan to operational method of Y2K problem for medical devices which conform to AARRVI steps.; 4.) Contingency plan needed to reduce unexpected emergency damage from Y2K problems of medical devices.

The Y2K remediation plan has been implemented in a critical department at Rajavithi Hospital. According to the implementation, the plan is, so far progressing excellently.

For the effectiveness of the year Y2K remediation master plan for medical devices, the plan should be evaluated and modified as needed. For example duties and authorities of each member should be defined. In addition, the effectiveness of the plan depends on the Y2K Committee characteristics and the hospital executive's support to solve the Y2K problem within the limited time