



Service Priorities and Programmes
Electronic Presentations

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IMPLEMENTATION OF CLINICAL INFORMATION SYSTEM

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Introduction

Adult Intensive Care Unit (AICU) was the last group of ICUs to implement the project of CIS since 2000s where agreed by COC ICU. In early July 2012, a project group was formulated and discussed how to install and implement the CIS in AICU. According to the tendering requirement, new physiologic monitoring system and clinical information system should be replaced and installed before the financial year. However, constraints of physical environment and manpower situation, AICU could not spare any resource to satisfy this project. Fortunately, patients, parent teams' doctor and other professions, and our colleagues have tolerance with those kinds of changes.

Objectives

The first phase of Clinical Information System (CIS) could be successfully implemented in the early January 2013 after the completion of tender process in August 2012.

Methodology

For the initial phase, we worked with staffs of the contractor, infection control unit, central nursing department, medical record office, administration service, IT department, facility service, electric and mechanical service department to work out the installation plan of systems including installation of cable trunks and extra electric sockets. Modification of existing working areas was done to meet the requirement of occupational health ordinance. According to the system requirement, AICU should spare a room for accommodation two servers of system. After a quick relocation process, AICU relocated our current equipment and consumable items storage to facilitate the installation without jeopardizes our current practices. However, the temperature of this store room was not suitable for the operation of servers. Because of budget constraints, we negotiated with facility service to install extra air conditioners for the stability of servers. In this period of time, alternative use of electric fans were used for improve air current inside store room. Finally, extra air conditioners were installed and temperature inside store room is under control. All AICU doctors and all nurses' supervisor were trained as train-the trainer of CIS within one week. Ten training sessions towards operation of new physiologic monitoring system and clinical

information system were done towards our frontline doctors and nurses. With the collaboration and assistance with the contractor, most of assessment forms, progress and management form, and allied health records were formulated into electronic ones. Two open forums for the implementation of CIS in AICU were organized and opinions were collected to improve the communication between departments and allied health professions. Major parent teams were involved in the implementation of CIS as well. For the ease of the operation of CIS, staffs' CMS Log-ID is used to facilitate staff who are going to visualize the data inside the system. For the security reason, randomized initial password is set to eligible staff and they should sign an acknowledgment form for maintaining confidentiality of patients' data and change their password accordingly. Our frontline colleagues also act as trainer to all parent teams' colleagues in order to improve the compliance of operating CIS in AICU.

Result

The new physiologic monitoring system was installed in the mid of November 2012 without jeopardizing the current operation in two days' time. Double charting was done in two days' time from 15th January 2013 and the Clinical Information System was live run from 17th January 2013. Although the existing system could not fully be met the requirement of different specialties and colleagues, the contribution of their valuable opinions, participation and tolerance makes the system operated smoothly and have further improvement.