APPLYING INFORMATION TECHNOLOGY IN MANAGING AND OPERATING CENTRAL STERILE SUPPLY DEPARTMENT (CSSD)



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PROBLEM

- Infrastructure: Many locations, areas.
- Equipment: Large investment, management is not effective.
- Personnel: Missing.
- Patient safety: Retrieval information related to surgical instruments and surgical fabrics used on patients is not interested and convenience is low.
- Management based on information processing: Basic, sensory, experiential; not based on results of measurement, comparison and analysis.
- How can activity data of CSSD be connected in different locations and regions?

IDEA

- With a shortage of human resources, how to improve work efficiency, especially for routine activity data and information recording, which takes the least time?
- How should the correlation between "Patient Safety" and "Traceability" be shown?

SOLUTION

- IT application in CSSD management activities.
- The software manages CSSD operations based on the steps of the surgical instrument reprocessing cycle.
- The software needs to answer questions such as: accurate statistics, effective workflow control, investment efficiency, quick and accurate retrieval of information sources.

OVERALL GOAL:

Application of IT in the operation management of the CSSD.

DETAIL GOAL:

- Building databases and specific applications in the main CSSD workgroups.
- Management of Medical instruments currently in circulation.
- Management of Medical instruments for prevention.
- Management of Medical device.
- Management of consumable medical supplies.
- Management of Medical linen.

CSSD operation information is automatically entered the software.



ILLUSTATING IMAGES





After

Before

Compares average

applying software

entry time in a day of activi-

ties at CSSD before and after

data



Nearly **50%** reduction in the average total time required for data entry during the day (13.33 hours compared to 6.33 hours).



100% of the steps in the tool reprocessing process are computerized (09/09 steps versus 04/09 steps).



Save **2.184** hours of data entry, corresponding to the time of 01 employees working in a year.



Improve the quality of **patient safety** through inspection and evaluation of cleaning and sterilization efficiency, Surgical instrument function, Seek an origin.



Contributing to the development of CSSD of Vietnamese hospitals, getting closer to international hospital CSSD standards.

ABBREVIATION:

CSSD = Central Sterile Supply Department IT = Information Techlology



"Order & Delivery of Sterilization" through software based on information about(1) Operating room, (2) Specialty, (3) Surgical method



Record information about surgical instruments and surgical cloth packages to be sterilized before operating the sterilizer



"Receive used surgical instruments" and record information via software

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Alert function for surgical instrument set "near" the expiration date or has expired

Check quantity and quality cleaning, functional surgical instruments with the support from the relevant information provided from the software

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Information regarding the reprocessing cycle of each surgical instrument can be retrieved