

Case Study:

Supply, collection and traceability management system for metallic surgical instruments

Scale of New Central Clinical Facilities

Number of beds 1035

Advanced medical technology including laparoscopic radical prostatectomy is provided.

Number of clinical departments 31

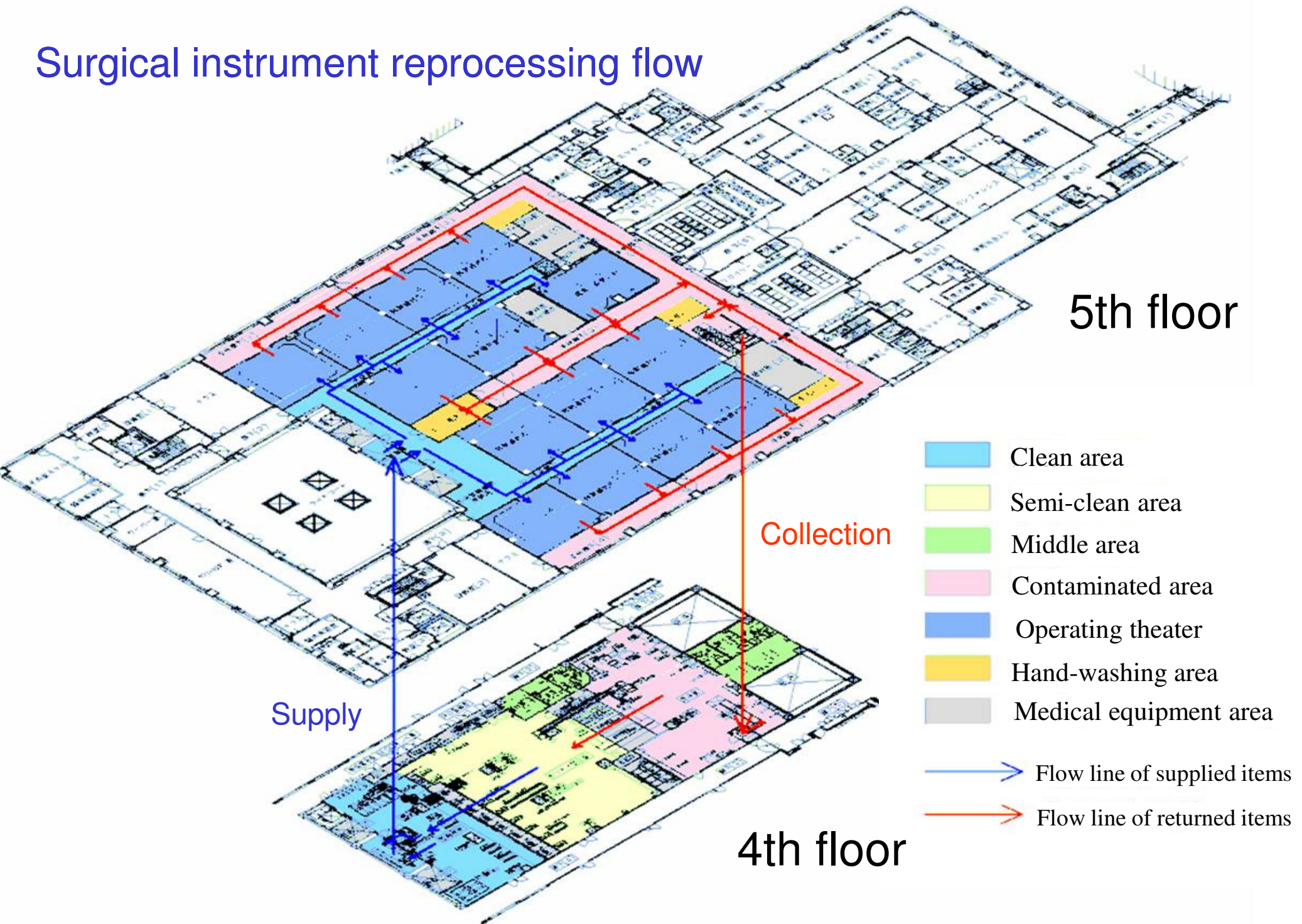
Number of nurses 615

Number of operating theaters 14

Number of operations Approximately 7,300 for FY2007

Kazumi TAKI, Former Assistant Manager, Department of Surgical Center, Nagoya University Hospital
Presented by Hiroyuki KAWAGUCHI, Sakura System Planning

Surgical instrument reprocessing flow

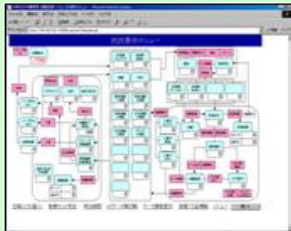


System configuration and flow line of sterilized surgical instruments - part 1-

Unit 1

Sterilized instrument utilization management system

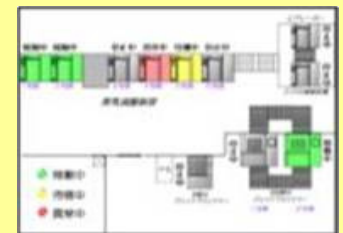
Consolidated management of all dispatched sterilized surgical instruments can be conducted in the Central Supply Department.



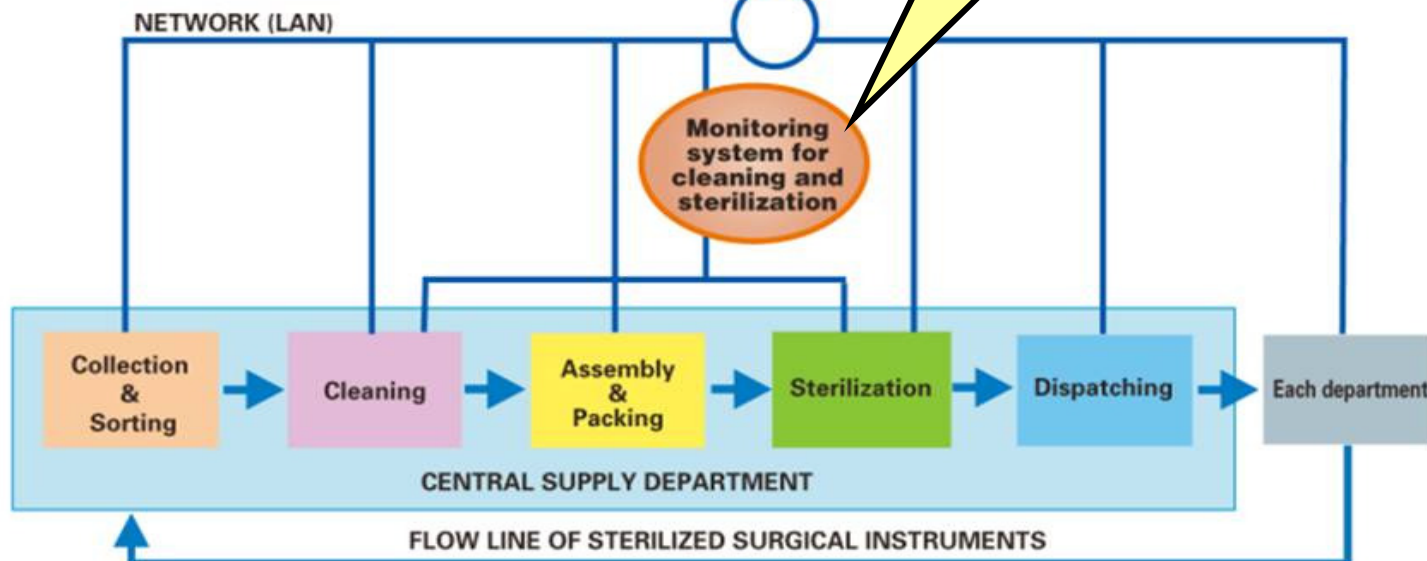
Unit 2

Monitoring system for cleaning and sterilization devices

Operation of cleaning and sterilization devices can be monitored in real time.



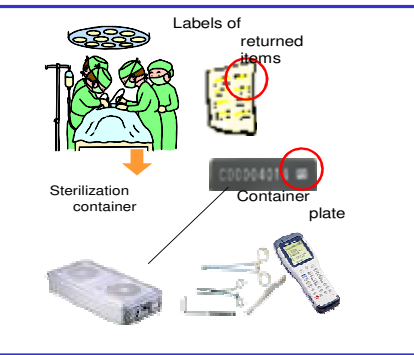
SSMS SYSTEM CONFIGURATION & FLOW LINE OF STERILIZED SURGICAL INSTRUMENTS



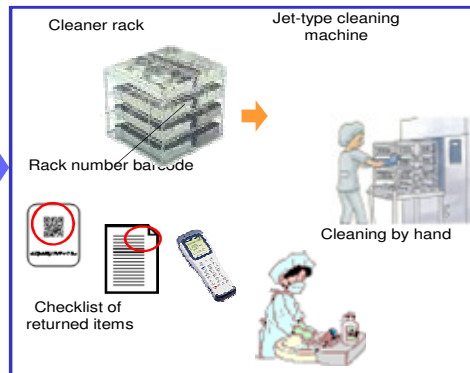
Surgical instrument flow in the Department of Surgical Center -part 1-

Standard data processing flow chart to track used surgical instruments

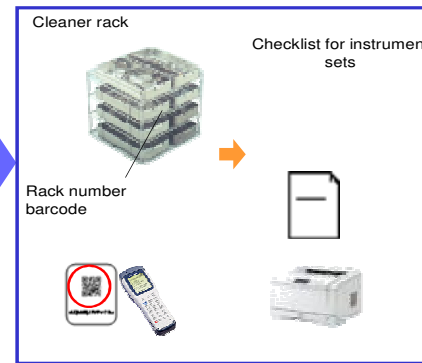
<1> Collection after use - Cleaning room



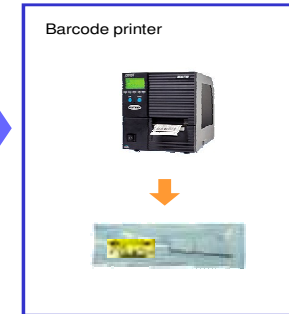
<2> Loading - Cleaning room



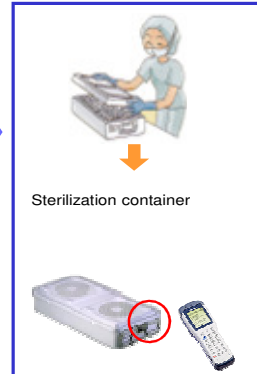
<3> Cleaning completed - Assembling room



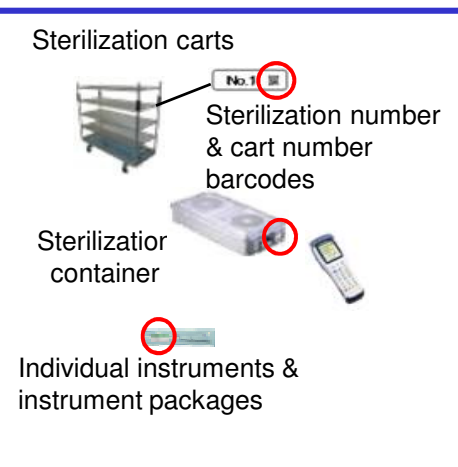
<4> Label printing - Assembling room



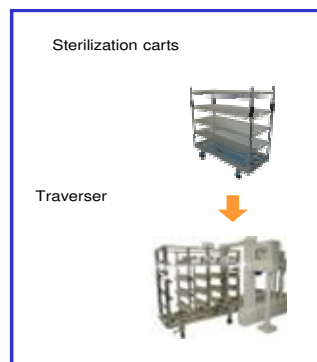
<5> Instrument set assembly - Assembling room



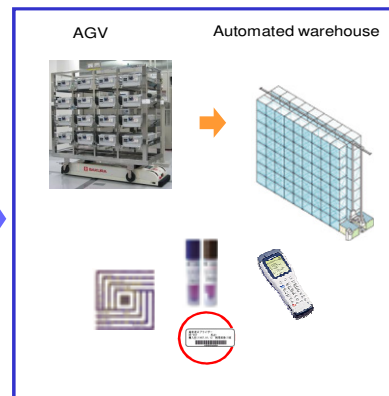
<6> Loading - Assembling room



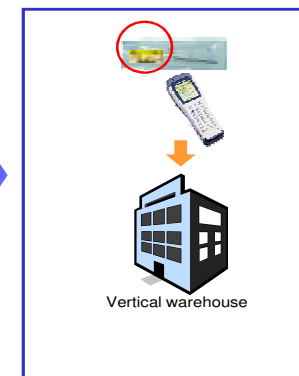
<7> Sterilization started - Assembling room



<8> Sterilization completed - Post sterilization room



<9> Sterilization completed - Post sterilization room



<10> Dispatch - Post sterilization room



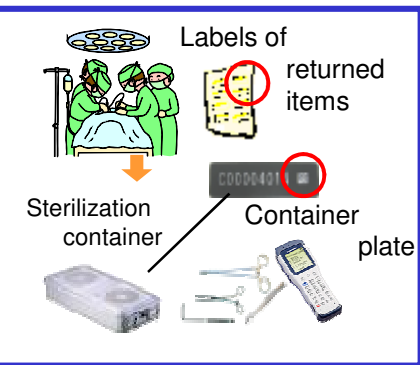
Examples of barcodes used in this system



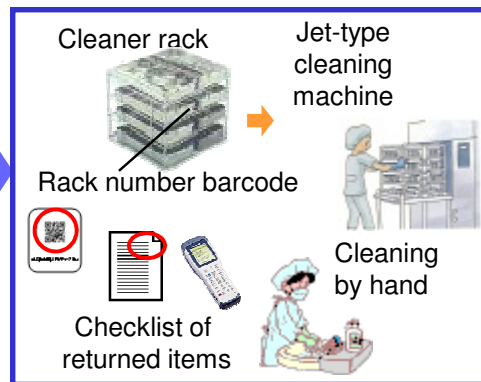
Surgical instrument flow in the Department of Surgical Center -part 1-

Standard data processing flow chart to track used surgical instruments

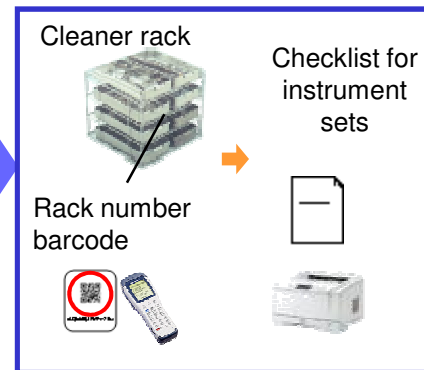
<1> Collection after use - Cleaning room



<2> Loading - Cleaning room



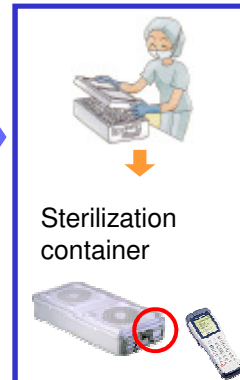
<3> Cleaning completed -
Assembling room



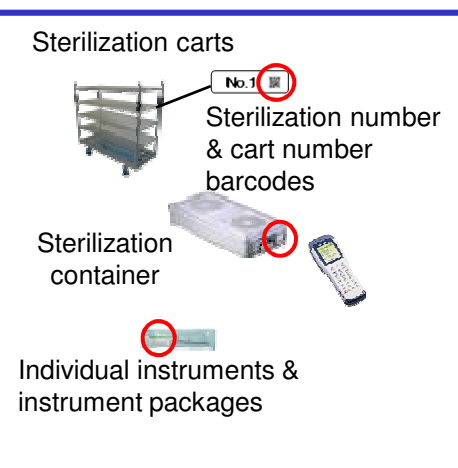
<4> Label printing
Assembling room



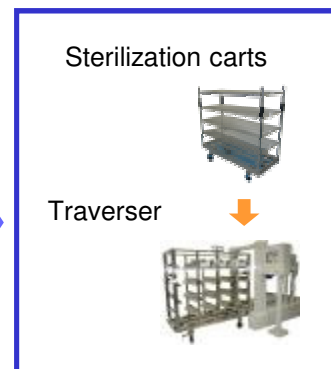
<5> Instrument set
assembly- Assembling
room



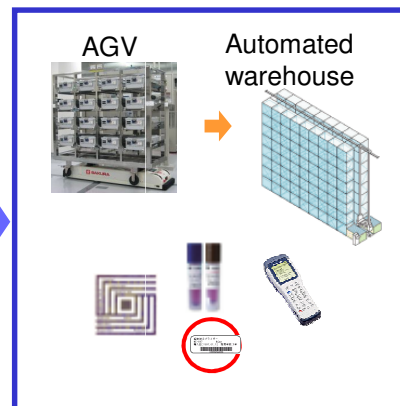
<6> Loading - Assembling
room



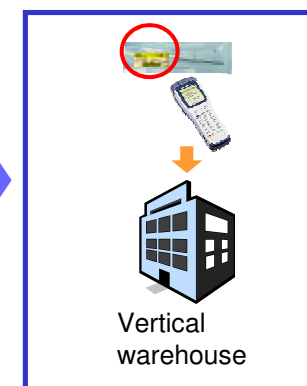
<7> Sterilization started-
Assembling room



<8> Sterilization
completed-Post
sterilization room



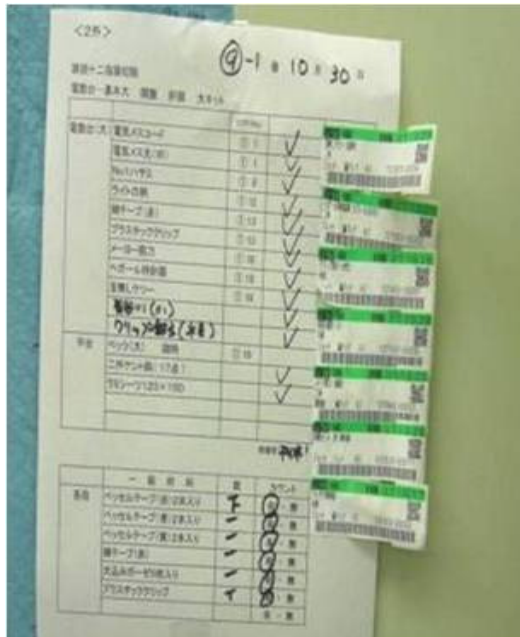
<9> Sterilization completed
-Post sterilization room



<10> Dispatch- Post
sterilization room



Collection of used surgical instruments



Barcode data entry at the point of collection



Automatic cleaning



Reassembling and label printout



Surgical instruments ready for sterilization



Label application, packing and instrument set assembly



Barcode data entry at the point of sterilization



Items carried out of the automatic sterilization system



Items carried into the automatic sterilization system



Preparation for surgery



Example of a screen display of utilization management function of surgical instruments and surgical containers



New Department of Surgical Center and Central Supply Department

Surgical instrument reprocessing cycle (cleaning, sterilization, supply and collection)

