

The International Day of Sterilisation Sciences

On April 21, the CSSD invited Han Hui, vice dean of Qilu Hospital of Shandong University, Luan Xiaorong, director of Infection Prevention and Control Department, as well as directors of different departments and head nurses to visit the working environment of CSSD, to observe the intelligent cleaning and disinfection equipment and automatic processing process, and publicize relevant scientific knowledge of sterilization in order to promote further communication and understanding to ensure the safe use of reusable devices and patient safety.

01 Sign-in

Before the activity started, there was a sign-in activity with the theme of " Smart CSSD is to Save the Mankind and Help the Society.". All visitors signed their names.

02 Department Introduction

Gao Haiyan, head nurse of the CSSD, extended a warm welcome to all guests. She introduced the origin and significance of the coming International Day of Sterilisation Sciences. The CSSD is based on the big data and intelligent information system. Through the integrated intelligent logistics system, automatic energy control and guarantee system, data and resources of the CSSD and the reprocessing process of surgical devices could be monitored, analyzed and allocated in real time. Therefore, the optimal allocation of resources of the CSSD and clinical departments and the quality and efficiency of instrument processing are improved.

Then the large screen shows: Intelligent Brain



Equipment, energy, human resources and logistics in the CSSD are all incorporated into the big data information system for management, including task scheduling, operation monitoring and quality inspection, jointly ensuring the instrument safety.

03 On-site visit

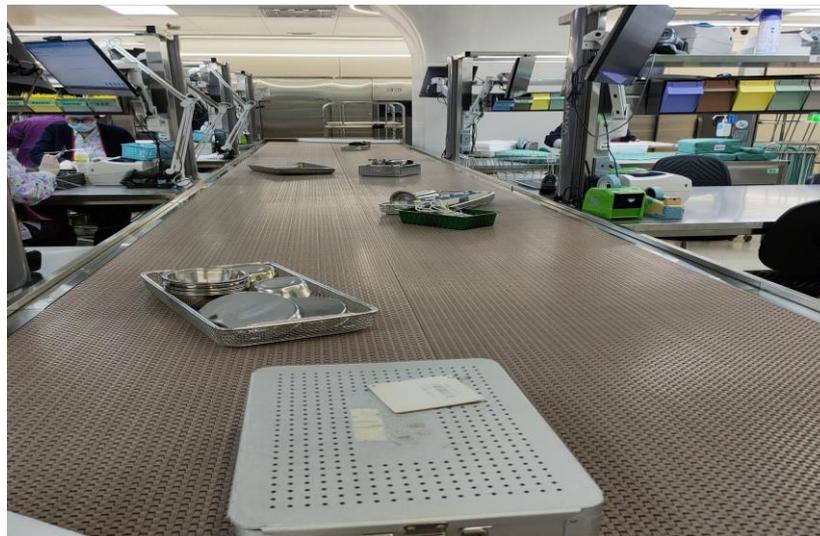
In the [Decontamination Area](#), [Wu Xiaolin](#), head of decontamination group, introduced the cleaning and disinfection equipment in this area. Among them, the most interesting is the logistics robot and the stacking shelf for cleaning racks. Live demonstration: the logistics robot automatically takes cleaning racks from the stacking shelf.



The stacking shelf automatically stores the cleaning racks. It takes a small area and saves space. The whole process is orderly and intelligent. It is accomplished without staff, and the location information is displayed in real time. After the instruments are classified and placed on the cleaning racks, the robot automatically interfaces with the cleaning equipment.



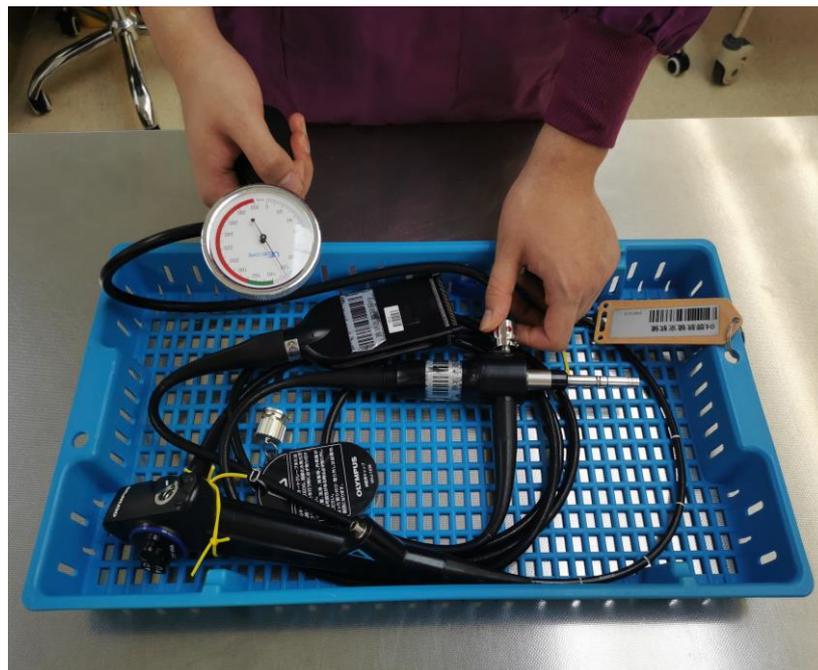
In the **Inspection Packing and Sterilization Area**, the packaging assembly line attracted visitors to stop and watch. **The team leader Zeng Xianxiang** introduced how the packaging assembly line automatically transfer the packages to be inspected and items to be sterilized at different points.



It reduces the traffic and keeps the site clean and orderly. The staff demonstrated the packing process of rigid endoscopes and flexible endoscopes.



Packing process of rigid endoscope



Packing process of flexible endoscope

Team leader of sterilization Cao Lei demonstrated that after instruments and items are placed on the sterilization racks, the sterilization loading robot will automatically send the racks into the sterilizers.



In the Sterile Storage Area, the sterilization unloading robots automatically transfer the sterilization racks to the cooling area and then send them to operating rooms through the elevator for clean instruments. Thanks to the **team leader Qi Peng,** visitors learned the storage requirements, distribution process, quality control and information traceability of sterile items.





Elevator connects CSSD and OR for sterile packs

04 Communication Symposium



After the visit, head nurse **Gao Haiyan** hosted the [communication symposium](#). She answered questions of guests, and received the suggestions and opinions from them.



Vice Dean Han Hui appreciated the new concept of CSSD which drives the practice of intelligent disinfection and supply. With the continuous progress of medical related technology and the efforts of our staff for many years, this CSSD has reached the highest level in China and is striving to build into a world-class intelligent CSSD. It is hoped that through this event, we can deepen understanding and mutual trust. At the same time, it is hoped that by learning the concept of CSSD, we can make more contributions of the development of the hospital.





Luan Xiaorong, director of the Infection, Prevention and Control Department, said that this event is of great significance. He hoped that through communication and exchange, people could acquire knowledge of sterilization and the working procedures of CSSD. At the same time, the CSSD could be supervised by the public. This event helped to deepen the understanding and trust of different departments, let more healthcare workers in the hospital know about the professional, standardized and scientific CSSD, and enhance the communication between the CSSD and clinical departments, so as to further understand and support the work of the CSSD and strengthen mutual communication and cooperation. Therefore, all departments can work together and protect patient safety.

This open day activity was highly valued and strongly supported by the hospital leaders and the nursing department. Through this open day activity, we further deepened our understanding of disinfection supply and understood what is an intelligent CSSD. It integrates the automation, informatization, intelligence and self-study, and realizes automatic dialogue and interaction between machines, so as to automatically generate, analyze and feedback information data. Therefore, the refinement of CSSD management, the standardization of practice and the high efficiency of operation could be achieved, ensuring patient safety.