### Challenges and Solutions

#### The first challenge: Staff education
1. The majority of staff in the Decontamination Area is part-time workers.
2. They have little education and are slow in learning new knowledge.
3. The robotic instruments are quite expensive and the workers are concerned during reprocessing.
4. There are great challenges in their education.

#### The Solution:
1. Build a task force.
2. Refer to the foreign and domestic documents to learn the cleaning, sterilization and cautions in processing the robotic surgical instruments.
3. Assign the task force members to the OR to learn about the usage, assembly and disassembly before, during and after surgeries.
4. Develop processing procedures and provide education to all staff.
5. The team leader should provide theoretical and practical instructions to team members.

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#### The third challenge: Instruments Management
Our hospital is the third hospital using Da Vinci robot surgical system and has no understanding in three aspects:
1. No one knows this system
2. No one has received training about processing
3. No management system and experience.

#### The solution:
1. Everyone has clear responsibility and specific staff to communicate with the relative departments.
2. Clear responsibility on cleaning and sterilizing robotic surgical instruments.
3. Improve the turn over rate of robotic surgical system.

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**Conclusion**

The Da Vinci robotic surgical system is widely used in minimally invasive surgery. There are problems in the limited number of instruments and high cost. It’s very important to do well in daily cleaning, sterilizing, maintenance and management. In CSSD routine jobs, improper handling will cause damages to the instruments, which will not only brings economic loss but also will impact the normal use in surgeries. Our department has developed a systematical management process, which makes sure the processing efficacy. So far, no surgery has been delayed due to instrument processing. Under the conditions that no new instruments are bought, we have increased the number of surgeries from one to four every day. The turnover rate has been improves and more robotic surgeries have been performed.