Handling of Instruments in the Operating Theatre

Christine Young Hatta Hospital



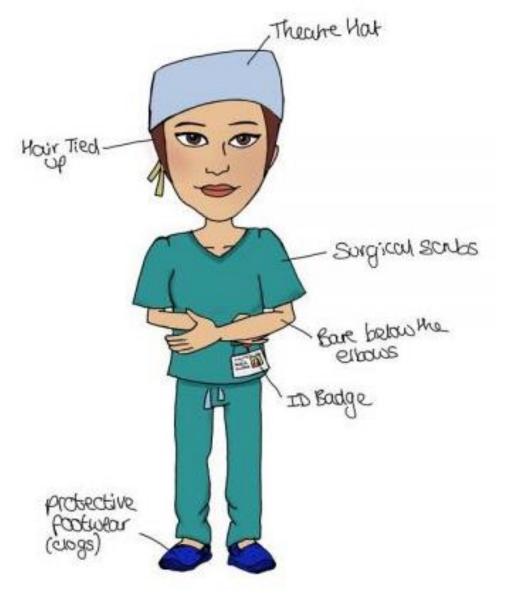


- Describe the rules in handling surgical instruments in OT
- •Outline procedures before and during handling sterile surgical instruments
- •Demonstrate the correct and proper way of holding the instruments

Poor surgical instrument handling practices have been found to increase SSIs¹⁰

Rules in Handingof SUPPER Instruments in the OT

Rule #1: Do Proper Scrubbing and Gowning



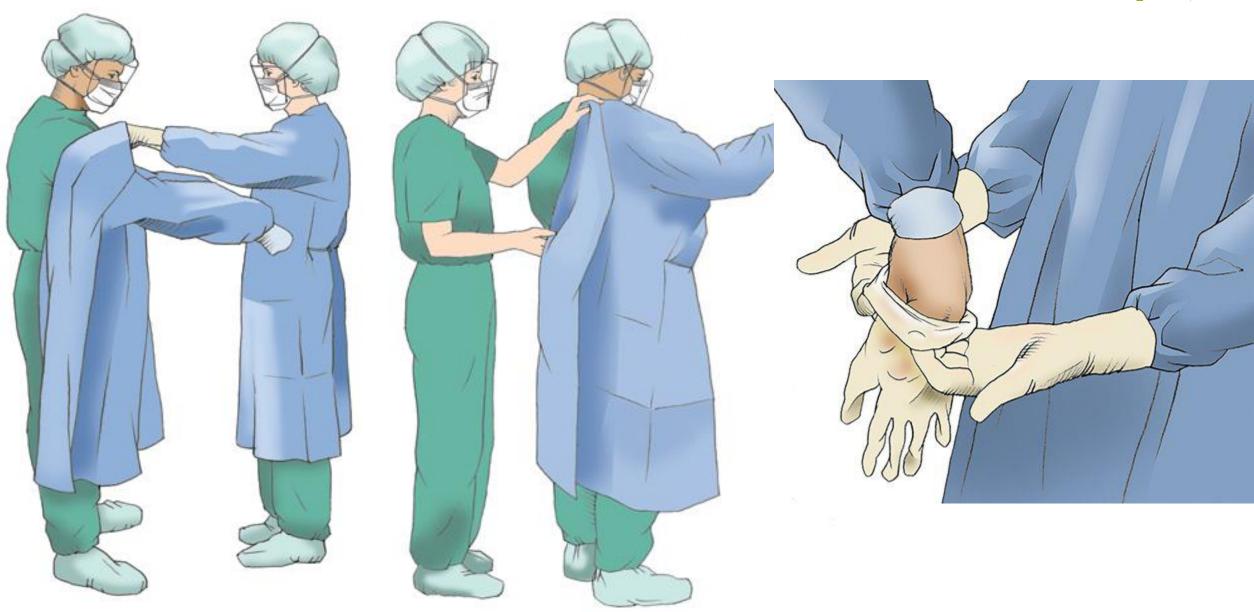


Rule #1: Do Proper Scrubbing and Gowning

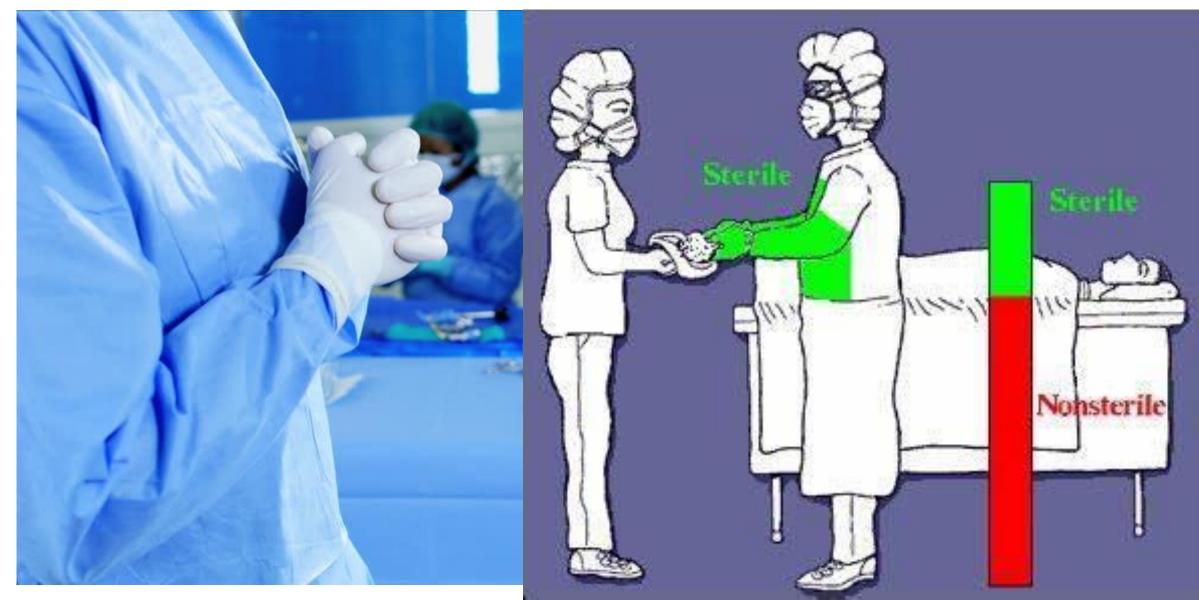




Rule #1: Do Proper Scrubbing and Gowning



Rule #2: Always maintain sterility!



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Patient Safety

A World Aliance for Safer Health Care

One of the

sterility.

scrub nurse's

responsibility is

to confirm the

World Health **Surgical Safety Checklist** Organization Before skin incision Before patient leaves operating room Before induction of anaesthesia (with nurse, anaesthetist and surgeon) (with at least nurse and anaesthetist) (with nurse, anaesthetist and surgeon) Has the patient confirmed his/her identity, Nurse Verbally Confirms: Confirm all team members have site, procedure, and consent? introduced themselves by name and role. The name of the procedure Yes Confirm the patient's name, procedure, and where the incision will be made. Completion of instrument, sponge and needle counts Is the site marked? Specimen labelling (read specimen labels aloud, Has antibiotic prophylaxis been given within the last 60 minutes? Yes including patient name) Not applicable Whether there are any equipment problems to be Yes addressed Is the anaesthesia machine and medication Not applicable check complete? To Surgeon, Anaesthetist and Nurse: Anticipated Critical Events Yes What are the key concerns for recovery and management of this patient? Is the pulse oximeter on the patient and To Surgeon: functioning? What are the critical or non-routine steps? Yes How long will the case take? Does the patient have a: What is the anticipated blood loss? Known allergy? To Anaesthetist: No Are there any patient-specific concerns? Yes To Nursing Team: Has sterility (including indicator results) been confirmed? Difficult airway or aspiration risk? No Are there equipment issues or any concerns? Yes, and equipment/assistance available Is essential imaging displayed? Risk of >500ml blood loss (7ml/kg in children)? Yes No Not applicable Yes, and two IVs/central access and fluids

planned

Rule #3: Check the sterility of the Instruments and Instrument Sets before

- Check expiry dates (Time-Related) and integrity of the plastic locks
- Check the chemical indicators or autoclave tapes
- Check the integrity of the blue sterile wrappers
- Check peel packs for any holes



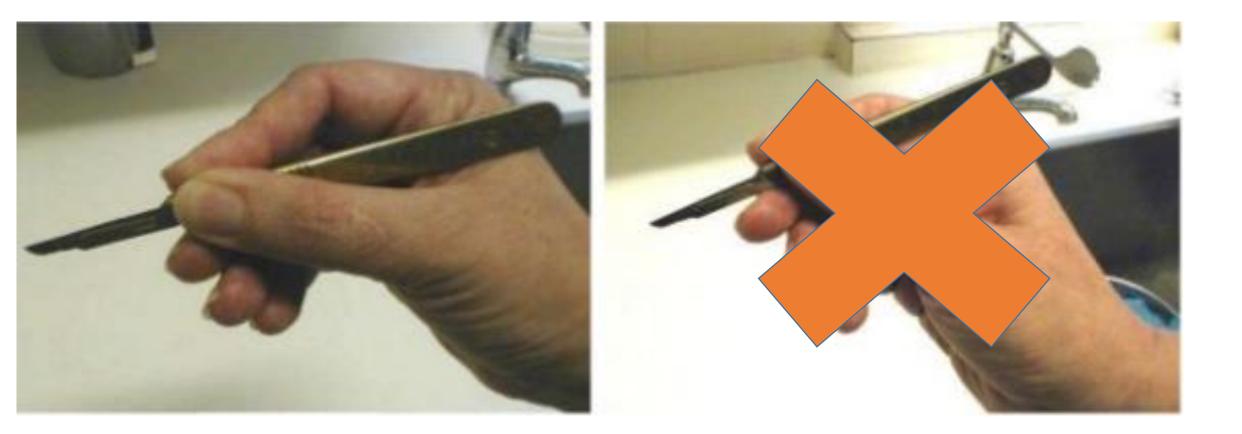
Rule #4: Be careful with your sharps!

- Handle blades with great care, they are very sharp.
 - Don't use your fingers to handle suture needles or load or unload a knife blade.
 - Always pass the scalpel in a kidney dish.
 - Always use a sharp container on your sterile field.

Rule #5: Don't use your hands or fingers in retracting.

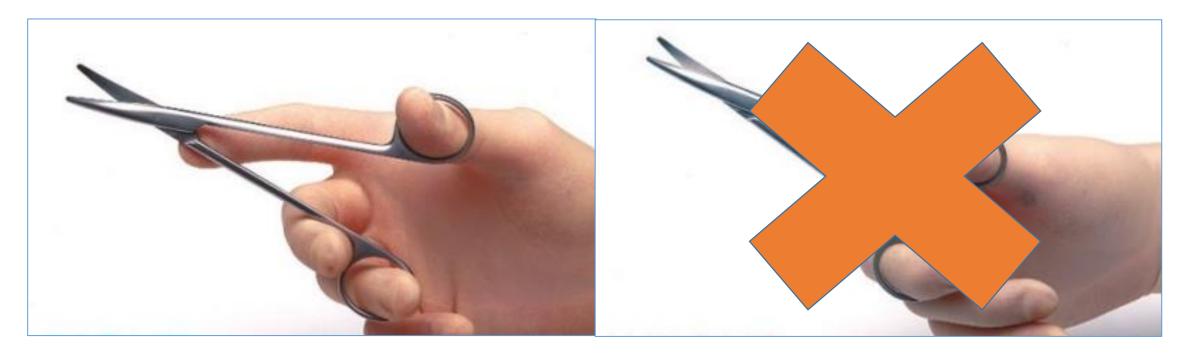
 Use retractors
Use: Allows wider space to work



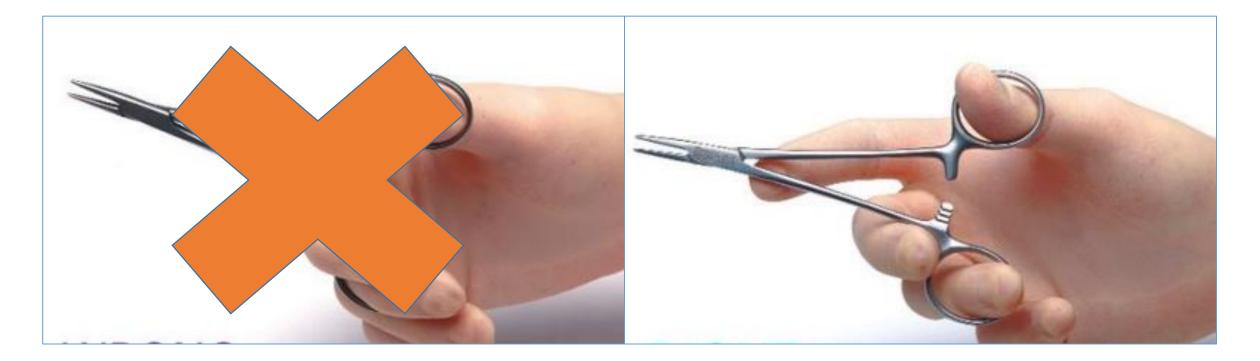




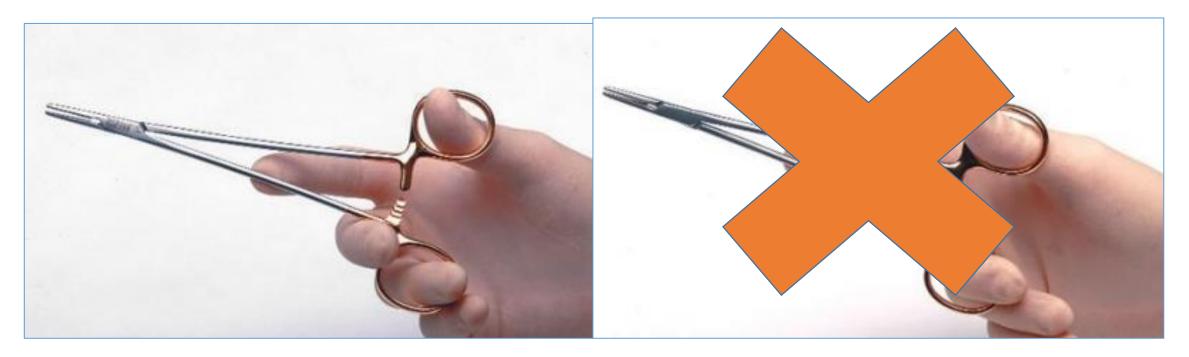
Hold gently between index finger and thumb, like holding a pen.



- Insert the thumb and ring finger into the rings of the scissors so that the distal phalanges are within the rings. Use the index finger to steady the scissors by placing it over the joint.
- Cut with the tips of the scissors for accuracy

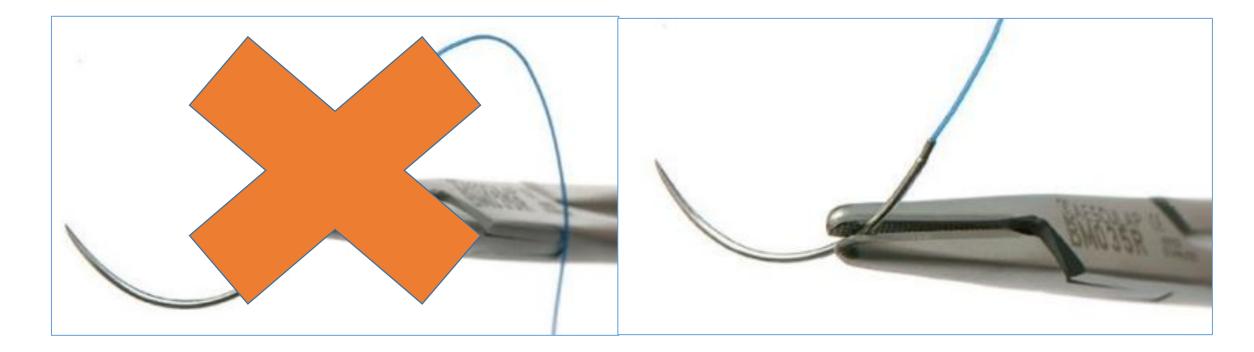


- 1. Hold in a similar manner to scissors.
- 2. Place on vessels using the tips of the jaws.
- 3. Use the ratchet lock to secure the position.



1. Grasp the needle holders in a similar manner to scissors.

Hold the needle in the tip of the jaws about two-thirds of the way along its circumference, never at its very delicate point and never too near the swaged eye.
Use the ratchet lock to secure the position.



Surgical needles present a specially designed body that allows a perfect hold when grasped by the needle holder at 2/3 of the needle length as shown in the pictures.





- Oxford, Basic instruments handlings, <u>http://mrcophth.com/ophthalmicinstruments/suturetypes/basicsurgica</u> <u>ltechniques.html</u>
- Don Sadler, Instrument Care and Handling, OR TODAY, https://ortoday.com/instrument-care-and-handling/
- B Braun, Surgical Instruments Best Practice, <u>https://www.bbraun.com/en/products-and-therapies/wound-</u> <u>closure/knotting-expert-club/surgical-instruments-best-practices.html#</u>



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Thank you !!!



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