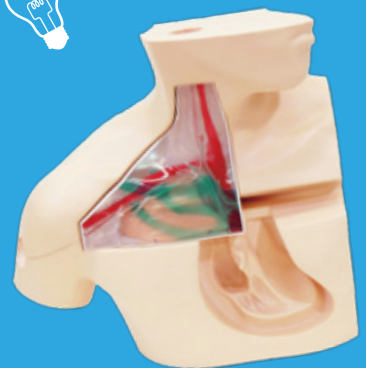




Use your simulator effectively!

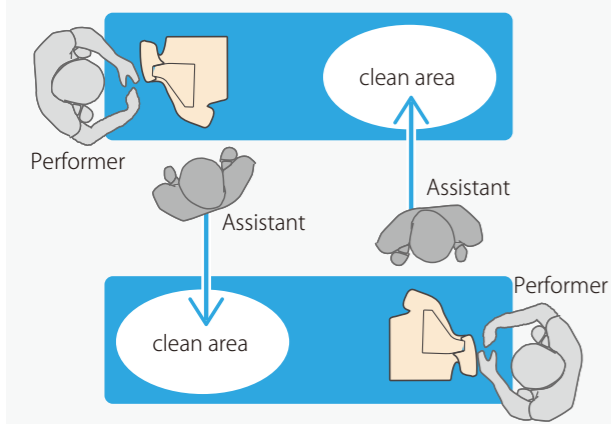


CVC Insertion Training

Case :  Osaka City University, Faculty of Medicine Skills Simulation Center
WEB ▶▶ <http://www.med.osaka-cu.ac.jp/ssc/>

STEP 1 ITEMS TO PREPARE

Layout



Item List

- Mask
- Cap
- Surgical gloves
- Surgical gown
- Surgical sheets
- Catheter kits
- Antiseptic cotton balls (Used without antiseptic)
- Tweezers (For antiseptic)
- Simulated heparized saline solution
- Simulated local anesthetic (Xylocaine)
- Syringes
 - for heparized saline solution : 20cc
 - for local anesthesia : 10cc
- Needles
 - for local anesthesia
 - for filling a syringe with medicine
- Needle disposal box
- Waste box



Picking up the instruments is one of the good way to understand the procedure for the beginners.

POINT

Good to know

TRAINING TRICKS

Let the trainees be aware of the importance of facing to patient fully.

POINT Peer teaching

In this training session, second year residents teach first year resident as a peer teachers in pairs. Trainees can receive more time for individual learning and feel more comfortable and open when interacting with a peer during the training. Peer teaching helps not only the shortage of staffs but also peer teachers reinforce their own learning by instructing others.

POINT Simulators are patients.

"Now you may feel cold with antiseptis." "Please let me put a instrument on your abdomen." These talking to the patients is a quite important point to learn same as procedure itself. Never let the trainees to think "The training is to simulators." and make them conscious of facing the patient during the training.

POINT Practice and perform

Practicing and performing session is separated in the training. At the beginning, the instructor tells the trainees to let them perform the procedure in realistic setting in the last part of the training. Before the performing session, trainees can practice the procedure with the simulator in specific time. In the performing, the peers check the procedure with the prepared checklist then feedback later.

STEP 2 CARRYING OUT THE TRAINING

The below example is for 2 hours of training session.



To encourage trainees to prepare from some days before the training session will increase effectivity of the training.

Orientation

5 min.

The trainees are assessed on preparation work or previous experiences in CVC insertion. Orientation on training contents and flow is given.

Showing sample procedure

30 min.

1. Body positioning/Injection point of CVC/Antiseptic

Goals Importance of talking to patients and understanding of injection point

Training sessions

- Explanation of the injection point
- Wearing the surgical cap and mask and antiseptize the injection area

POINT Explain why wearing the cap and mask before antiseptizing. It is to avoid hairs or others falling off to the items for antiseptic.



2. Preparation for CVC insertion procedure

Goals Learning the aseptic technique

Training sessions

- Wearing a gown and gloves

POINT Explain the action of assistant at the same time. It is to avoid hairs or others falling off to the items for antiseptic.



3. Local anesthesia and CVC insertion procedure

Goals Understand the procedure and how to handle the instruments

Training sessions

- Performe local anesthesia procedure.
- Show the steps of the catheter insertion and fixation.

POINT Explain the action of assistant at the same time.

Explain the detail action during the procedure like talking to the patients, aseptic technique of guide wire and etc.

Practice Working in a pair

- The trainee can practice the procedure thoroughly about 20 mins. Another join the procedure as an assistant.

POINT Trainers need to get involved to the trainees' practice in order to solve their questions and anxious.

Performance The procedure in the realistic setting

- The trainee perform the procedure without the advice.

POINT Do not point out the mistakes during the performing. Use the check list to assess the procedure.

Feedback Specific feedback by the trainer

- Feedback the detail of the procedure with the check list to the trainee.



Practice and performance session

75 min.