



Simulation: CLABSI-Line Access Technique

Time: 5 minutes

Max number of people per station: 5

Number of facilitators per station: 1

Supplies Needed:

- Hand sanitizer
- Alcohol caps
- Alcohol pads
- Gloves
- Syringes
- IV tubing
- IV bag
- Fluorescein powder
- UV light
- CLABSI Line Access Video
- Equipment to show video

Steps to Perform Simulation

Show CLABSI Line Access Technique Video to demonstrate the scrub the hub process. Describe the correct way to scrub the hub and why mechanical removal and alcohol kill time is vitally important. Draw attention to issues where the healthcare worker inappropriately scrubbed or missed scrubbing the hub all together. Be sure to indicate how pathogens can travel to the heart and create bloodstream infections beginning at the point of contamination. After scrubbing the hub, make note that accessing the central line should be limited to administration purposes and to avoid blood draws from central lines as much as possible.

For **in-person:**

1. The learner will put on gloves that have been prepared with fluorescein powder on them, indicating they were dropped on the floor and then made available for use.
2. Have the volunteer access the line for administration of an IV push medication.
3. Then evaluate the hub and IV tubing with the UV light for contamination.
4. For further simulation, have the learners scrub a hub for 15 seconds putting emphasis on how long that really is.

For **virtual:**

1. After watching video #2, learners will identify areas where contamination occurred.
2. For further simulation, have the virtual learner set a timer for 15 seconds to see how long a 15-second scrub really is.

Simulation video shows the following correct way and errors, respectively.

- First scrub was correct (**15 seconds**)
- Second scrub was incorrect (**not 15 seconds**)
- Final access **without scrubbing** was incorrect

Debriefing Script*:

Facilitator: Thank you for participating in this debriefing session about the importance of Line Access Technique. Let's discuss the key points and address any questions or concerns you may have.

Question 1: How can scrubbing the hub impact CLABSI rates?

Answer: Scrubbing the hub helps prevent pathogens from entering the bloodstream, but there needs to be emphasis on proper scrubbing, the full 15 seconds, and allowing it to dry.

Question 2: When should the hub be scrubbed?

Answer: Scrubbing the hub is required with every access including flushes before and after medications to prevent contamination of the hub when switching out the syringes

Question 3: How can scrubbing the hub impact CLABSI rates?

Answer: Scrubbing the hub can remove contamination from the hub preventing pathogens from entering the bloodstream when medications, saline flushes, or fluids are administered.

Facilitator: Thank you for your participation. Understanding the importance proper line access is vital to preventing CLABSIs. If you have any further questions or need clarification on any topic, please feel free to ask.

***Disclaimer: Please follow this debriefing script. The skill of debriefing is a process that takes time and experience to learn. Please do not use these debriefing tools outside of this situation without appropriate knowledge and experience.**

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