



Simulation: CLABSI-Line Maintenance Technique

Time: 10 minutes

Max number of people per station: 5-10

Number of facilitators per station: 1-2

Supplies Needed:

- IV tubing x 2
- IV pole x 2
- Central line labels
- NADs
- Central line connection
- Alcohol caps
- [CLABSI Line Maintenance picture series](#)
- Audit tool (see below)

Steps to Perform Simulation

1. Show picture CLABSI series for line setup to virtual learners.
2. Show assembled lines in person.
3. Point out the correctly built line by indicating where the line is labeled with date/time, appropriately hanging, alcohol caps in place, and with NADs in place.
4. Then point out the areas that need improvement on the incorrectly built line.
5. Review line components as well as when the components should be changed.
6. Review example of a daily audit tool (Resource CLABSI 4-1), how to standardize the audits, and the use of a daily need assessment.
7. For virtual or in-person: The learner will audit two line setups using CLABSI picture #1 and #2. They will identify the deficiencies that could ultimately lead to a CLABSI using the provided audit tool.

Debriefing Script*:

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

Question 1: What errors did you identify?

Answer: missing alcohol caps, missing tubing labels, bag not labeled, tubing hanging and exposed

Question 2: How can utilizing an audit tool help prevent CLABSIs?

Answer: Daily line audits help provide a source of double-checking to ensure that routine care is being provided and to assess for any issues that may necessitate additional care, such as a dressing that is not fully intact needing changed before the scheduled date. This also helps evaluate line necessity.

Question 3: How can Human Factors Engineering be applied to this issue?

Answer: Audit tools help standardize review of lines between auditors to ensure all lines are being monitored the same.

Facilitator: Thank you for your participation. Understanding the importance Line Maintenance 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.

Central Line Daily Audit Tool

Room number and MRN:	Date:			
	Yes	No	Deficiency Identified	Intervention
Type of line				
Signs of infection at site				
Dressing clean, dry, intact				
Appropriate dressing type				
Dressing not expired				
Dressing labeled with time, date, and initials of last change				
Hand hygiene observed (if applicable)				
NADs in place in all appropriate places				
NADs labeled with date and time last changes				
NADs not expired				
Alcohol caps in place on all hubs				
IV tubing labeled with date and time (for start and expiration)				
IV tubing not expired				
No IV tubing hanging that is not connected to patient				
Patient has a documented CHG bath within last 24 hours (unless documented CHG allergy)				
Line necessity documented with last 24 hours				

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