



Nursing Management of Venous Access Devices: *Non-tunneled Central Catheters*

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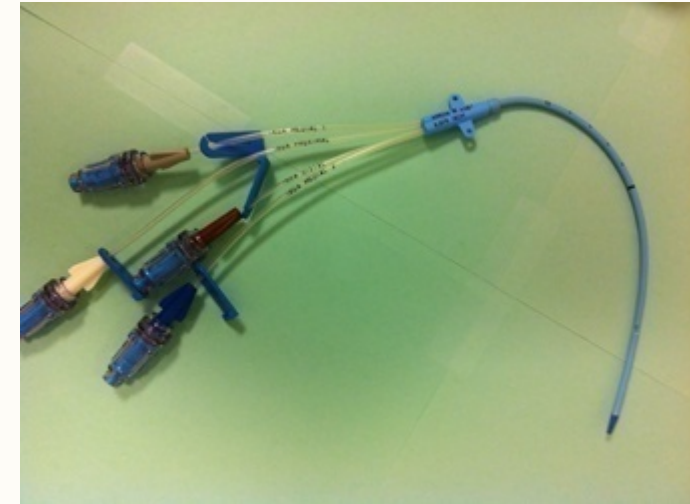
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Non-tunneled Catheters: Subclavian/Jugular/Femoral Lines

- ❑ Also known as:
 - Central Venous Catheter
 - CVC / CVAD
- ❑ TYPES
 - Single lumen - SL
 - Double lumen - DL
 - Triple lumen - TL
 - Quadruple lumen



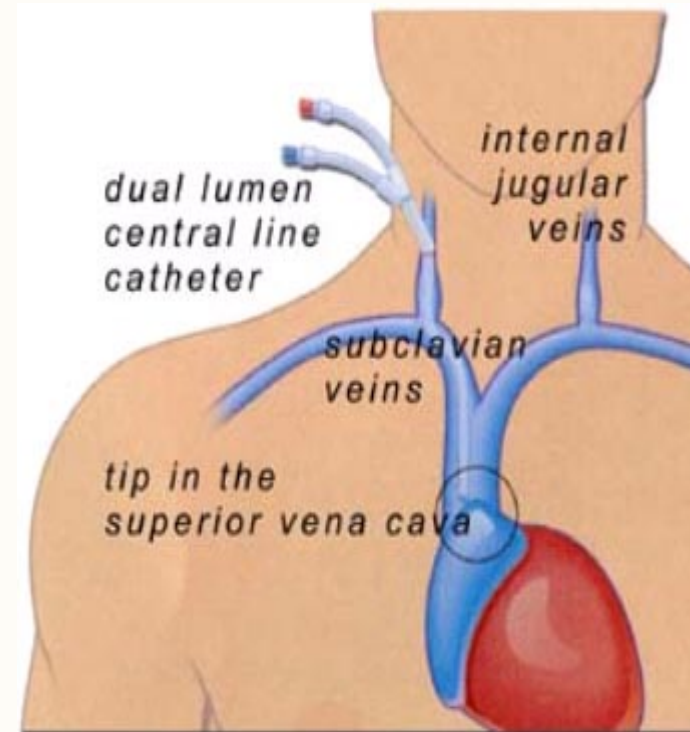
Non-tunneled Lines

☐ Benefits:

- short term central access up to four lumens
- central access alternative to PICC
- emergency access

☐ Risks/Complications:

- Pneumothorax
- air embolism
- infection





Non-tunneled lines

- Placement: A sterile procedure at bedside or in the operating room performed by physician or designee
 - Central Line Infection Prevention Checklist must be completed
- Dwell time: based on ongoing clinical evaluation
- Use of lumens
 - Distal lumen: CVP monitoring, blood sampling, viscous fluids, blood products
 - Middle lumen: TPN (if no TPN, can use for blood sampling, meds, and transfusions)
 - Proximal: any fluid or blood product
- Refer to MGH Nursing Policies and Procedures in Ellucid

Non-tunneled Catheter Care and Maintenance: Flushing

Refer to MGH Nursing Policies and Procedures in Ellucid

<i>Type of Catheter</i>	<i>Routine Flushing</i>	<i>Frequency of Flush</i>
Non-tunneled catheters	Adults: 0.9% saline 10-20ml 0.9% saline 20-30ml	Intermittent use: After completion of any infusion (10-20ml) or blood sampling/transfusion (20-30ml) Maintenance: every 24 hours when not in use.
	Adolescents: Heparin 10u/ml., give 5ml (50units)	Intermittent use: After completion of any infusion or blood sampling. Maintenance: every 24 hours when not in use.
	Pedi/Toddlers/Infants: Heparin 10 units/ml; flush with 2ml (20 units).	Intermittent use: After completion of any infusion or blood sampling. Maintenance: every 24 hours.

Non-tunneled Catheter Care and Maintenance: Flushing

Refer to MGH Nursing Policies and Procedures in Ellucid

<i>Type of Catheter</i>	<i>Routine Flushing</i>	<i>Frequency of Flush</i>
Non-tunneled catheters	Neonates/NICU: Heparin 10 units/ml; flush with 1ml. (10 units). Note: The volume of flush should be equal to the catheter volume.	After completion of any infusion or blood sampling, or every 6 hours



References

- Original Power point 2011: Bartholomay, Dreher, Theresa Evans, Susan Finn, Deb Guthrie, Hannah Lyons, Janet Mulligan, Carol Tyksienski
- MGH Ellucid