

CarePro Home Infusion 1-800-755-6997
PROCEDURE FOR THROMBOTIC CENTRAL CATHETER
OCCCLUSION Cathflo(Activase)

EQUIPMENT:

Liquid soap and/or sanitizing gel

Gloves

Vial of (2ml) of thrombolytic agent alteplase (tPA, Cathflo); dose may be repeated, total dose of 4 ml in a 24-hour period. Pediatric catheters may be filled with alteplase equal to 110% of the catheter volume.

5 ml syringe

10 ml syringe

10 ml pre-filled 0.9% sodium chloride syringes

Stop-cock, 3-way with luer-lock ports (optional)

10 ml pre-filled syringe filled with 5ml of heparin flush (if ordered by physician)

Alcohol or providone-iodine swabs or other disinfectant product

Needleless connector

1" tape

PROCEDURE:

1. Obtain order for alteplase solution. Explain procedure to patient.
2. Wash hands thoroughly with soap and water and dry with clean paper towel.
3. Put on mask.
4. Assemble supplies on a clean surface.
5. Put on gloves.

Stop-cock Method (For completely occluded catheters)

1. Clamp catheter, remove needleless connector. Luer-lock the stop-cock onto the catheter, with the valve turned off to patient.
2. Attach the 2ml alteplase (in a 10ml syringe) and an empty 10 ml syringe onto the stop-cock.
3. Turn the stop-cock valve "open" to the empty 10 ml syringe. Aspirate (pull back) on the empty syringe. While keeping the plunger pulled back, turn the valve "open" to the

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alteplase syringe. Allow the alteplase to be pulled into the catheter by the vacuum created. Allow solution to remain in the catheter for 30 minutes.

4. Turn the stop-cock valve "open" to the empty syringe, and aspirate for blood return.
 - a. If blood return noted, draw off waste (4-5ml volume may be modified for infants, patients with anemia, etc.); discard waste syringe and attach sodium chloride flush.
 - b. If no blood return noted, hold negative pressure and open stop-cock to alteplase syringe. Allow solution to flow in; wait another 30 minutes.
 - c. Repeat above procedure every 30 minutes up to 2 hours. Alteplase dose may be repeated if no blood return after 2 hours.

Syringe Method (For partially occluded catheters)

1. Attach the alteplase syringe directly to the catheter. Slowly insert the contents of the alteplase syringe.
2. Wait 30 minutes and attempt to aspirate. If there is adequate blood return, discard and flush catheter with 10-20ml of 0.9% sodium chloride (USP), followed by appropriate amount of heparin solution, if applicable. Volume of flush may be modified for infants or small children.
3. Attach a primed sterile needleless connector.
4. If there is no blood return, repeat steps 1 and 2 every 30 minutes for 2 hours.
5. The dose of alteplase may be repeated after 2 hours.
6. Alteplase may be left in the catheter up to 24 hours; however, most occlusions are cleared within an hour.
7. If unable to obtain a blood return, notify the physician.
8. Document procedure in patient's medical record, including dose administered.

