

ALTEPLASE, RECOMBIVANT (Cathflo Activase) for Central Venous Catheter Thrombotic Occlusions



20:12.20 – Thrombolytic Agents

PHARMACY PREPARATION:

- None

STABILITY:

- Store lyophilized Cathflo Activase at refrigerated temperature (2-8°C or 36–46°F).
- Protect the lyophilized material during extended storage from excessive exposure to light
- Do not use beyond the expiration date on the vial
- Cathflo Activase contains no antibacterial preservatives and should be reconstituted immediately before use
- The solution may be used for intracatheter instillation within 8 hours following reconstitution when stored at 2-30°C

ADMINISTRATION:

- Preparation of Solution - Reconstitute Cathflo Activase to a final concentration of 1 mg per ml:
 1. Aseptically withdraw 2.2 ml of Sterile Water for Injection, USP (diluent is not provided). Do not use Bacteriostatic Water for Injection.
 2. Inject the 2.2 ml of Sterile Water for Injection, USP, into the Cathflo Activase vial, directing the diluent stream into the powder. Slight foaming is not unusual; let the vial stand undisturbed to allow large bubbles to dissipate.
 3. Mix by gently swirling until the contents are completely dissolved. Complete dissolution should occur within 3 minutes. DO NOT SHAKE. The reconstituted preparation results in a colorless to pale yellow transparent solution containing 1 mg per ml Cathflo Activase at a pH of approximately 7.3.
- Instillation of Solution into the Catheter
 1. Ask patient to change position (turn side to side, sit up, lie flat), perform Valsalva maneuver, cough, and take a deep breath. This may move the catheter away from the vessel wall and resolve any mechanical occlusion. RN should repeat attempts to withdraw blood after these efforts. All catheter manipulations must be performed using strict aseptic techniques.
 2. Clamp the catheter (if appropriate) and remove the cap or IV tubing. Inspect the product prior to administration for foreign matter and discoloration.
 3. Withdraw 2 ml (2 mg) of solution from the reconstituted vial.
 4. Attach the appropriate dose of an Cathflo Activase-filled syringe to the external hub of the catheter, unclamp the catheter, if clamped and attempt to aspirate again (being careful not to pull the Cathflo Activase out of the back of the syringe), then slowly instill or gently push the Cathflo Activase solution to fill the lumen (do not force). Leave syringe attached to the catheter hub and tape the syringe and catheter to the patient's chest wall or abdomen.
 5. WAIT 30 minutes.
 6. Attempt to aspirate drug and residual clot. If able to aspirate proceed to #7. If unable to aspirate wait and attempt aspiration again at 90 minutes; if able to aspirate go to #7. If unable to aspirate wait

and attempt aspiration again at 120 minutes. Proceed to #7.

7. If able to aspirate fluid (drug and residual clot), withdraw an additional 5ml of blood and discard. Clamp catheter (if appropriate) and attach a syringe filled with 0.9% NaCl (Normal saline), unclamp and flush the catheter with 20ml to 30ml. Follow with heparin if appropriate. Clamp the catheter, if appropriate, remove the syringe, and attach new injection cap. Resume therapy or lock the catheter.

OR:

If unable to aspirate fluid (drug and residual clot) after 120 minutes total wait time, instill a second dose of Cathflo Activase as described above, per physician order. If the catheter remains occluded after 2 doses of Cathflo Activase, contact the medical team to consider alternative etiologies, potential diagnostic approaches, and additional management strategies.

8. If catheter function has been restored, aspirate 4–5 ml of blood to remove Cathflo Activase and residual clot, and gently irrigate the catheter with 0.9% Sodium Chloride, USP.

- Any unused solution should be discarded.

INFUSION:

- N/A