



REGIONAL ADULT PARENTERAL DRUG MONOGRAPH

GENERIC NAME

alteplase
(venous catheter occlusion)

Effective Date: Sept 2012

Revised Date: May 2023

CLASSIFICATION
Thrombolytic Agent

OTHER NAMES
Cathflo

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ADMINISTRATION POLICY:

IV Bolus - May be administered by a nurse

RECONSTITUTION/DILUTION/ADMINISTRATION:

Available as: 2 mg vial - REFRIGERATE

Reconstitution: 2 mg vial reconstitute with 2.2 mL sterile water for injection (without bacteriostatic). Swirl to dissolve. DO NOT SHAKE. Final concentration: 1mg/mL

Administration: See “Additional Notes and Nursing Consideration” section below for administration directions. Additional information available in Central Venous Access Devices: Care and Maintenance policy CLI.4110.PL.004

DOSAGE:

Usual: 2 mg = 2 mL into each lumen

Maximum dose: No more than 2 mg/lumen x 2 doses in a 24 hour period

Maximum concentration: 1 mg/mL

STABILITY/COMPATIBILITY:

Stability of reconstituted vial: 8 hours at room temperature

Compatibility: Do not mix with other drugs

PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Bleeding (minor) at catheter site
- Anaphylactoid reaction (flushing, hypotension); urticaria, laryngeal edema, skin rash
- Use cautiously in patients with: Active bleeding (i.e. Intracranial bleeding), recent major surgery, recent trauma; severe uncontrolled hypertension.

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

Follow directions based on type of occlusion:

Partial Thrombotic or Nonthrombotic Occlusion

- Slowly inject alteplase.
- Use **Dwell Method**.
- Notify authorized prescriber if unable to achieve patency. An option may be for alteplase to dwell for 24-72 hours or to administer alteplase using either the **Push Method** or the **Low-Dose Infusion Method**.

Total Occlusion

- Use negative pressure technique with either a single syringe or 3-way stopcock.
- Use **Dwell Method**.
- Notify authorized prescriber if unable to achieve patency. An option may be for alteplase to dwell for 24-72 hours



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Dwell Method

- Instill alteplase based on type of occlusion.
- Allow to dwell for 60 minutes.
- Attempt to aspirate.
- Repeat procedure once if patency not achieved.
- If patency re-established, flush with 10 mL pre-filled syringe preservative free 0.9% Sodium Chloride and lock or resume infusion.

Push Method

- Slowly instill alteplase into lumen.
- Wait 10 minutes.
- Attach 10 mL pre-filled syringe of preservative free 0.9% Sodium Chloride.
- Push 0.3mL of 0.9% Sodium Chloride into affected lumen.
- Wait 10 minutes.
- Push another 0.3mL of 0.9% Sodium Chloride into affected lumen.
- Wait 10 minutes.
- Push another 0.3mL of 0.9% Sodium Chloride into affected lumen.
- Attempt to aspirate.
- If patency re-established, flush with 10 mL pre-filled syringe preservative free 0.9% Sodium Chloride and lock or resume infusion.

Low-Dose Infusion Method

Dosing options:

- 1–2 mg reconstituted Cathflo® (alteplase, recombinant) in 50 mL mini-bag of sterile preservative-free 0.9% sodium chloride over 30 minutes.
- 2–4 mg reconstituted Cathflo® (alteplase, recombinant) in 100 mL mini-bag of sterile preservative-free 0.9% sodium chloride over 60 minutes.
- 3–5 mg reconstituted Cathflo® (alteplase, recombinant) in 50–100 mL mini-bag of sterile preservative-free 0.9% sodium chloride over 3 hours.
- If patency re-established, flush with 10 mL pre-filled syringe preservative free 0.9% Sodium Chloride and lock or resume infusion.