



REGIONAL PEDIATRIC PARENTERAL DRUG MONOGRAPH

Hoalth /						
Health	GENERIC NAME					
	alteplase					
	urophuse					
Effective Date: Sept10-2014	CLASSIFICATION	OTHER NAMES	PAGE			
	Thrombolytic agent	Cathflo	_			
Revised Date:			1 of 2			
ADMINISTRATION POL	ICY:					
Restricted to nurses trained in alteplase administration specific to venous catheter occlusions						
RECONSTITUTION/DILUTION/ADMINISTRATION:						
Available as: 2 mg vial REFRIGERATE						
Available as. 2 mg viai KLI KIOLKATL						
Reconstitution: 2 m	ng vial reconstitute with 2.2 mL sterile water for injection (without bacteriostat). Swirl to					
	dissolve. DO NOT SHAKE.					
Final concentration: 1mg/mL						
Intracatheter:	instill into catheter or CVAD over 30 to 60 seconds according to procedure in					
mu acameter.		Tay dilute with normal saline to final volume e				
		ne. Do not dilute below MINIMUM CONCEN	•			
DOSAGE:						
Intracatheter:	use a volume of alterlass solution equal to 1.5 times internal volume of the astheter					
Intracatileter.	use a volume of alteplase solution equal to 1.5 times internal volume of the catheter May repeat treatment ONCE if first attempt not successful.					
		r				
Maximum dose:	2 mg					
Marinen concertuation .						
Maximum concentration :	1 mg/mL					
MINIMUM concentration:	0.2 mg/mL in normal saline					
STABILITY/COMPATIBILITY:						
Stability of final admixture	: 8 hours at room temperatu	Ire				
Stability of final admixture	o nours at room temperature					
Compatibility:	Compatible with D5W, normal saline					





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PRECAUTIONS, POTENTIAL ADVERSE REACTIONS:

- Hypersensitivity: anaphylactoid reaction (flushing, hypotension); urticaria, laryngeal edema, skin rash
- Hemat: bleeding (minor) at catheter site
- Other: nausea, vomiting, hypotension, fever (uncertain if related to alteplase administration)

CAUTION

- active internal bleeding (i.e. intracranial bleeding), recent major surgery, recent trauma, severe uncontrolled hypertension
- patients with hemostatic defects
- suspected or confirmed infection in the catheter successful thrombolysis may release organisms into systemic circulation

CONTRAINDICATIONS

• known hypersensitivity to recombinant alteplase or any component of the formulation

ADDITIONAL NOTES AND NURSING CONSIDERATIONS:

• other causes of catheter dysfunction should be considered, especially if alteplase is not effective (i.e. catheter malposition, mechanical failure, constriction caused by suture, and lipid deposits or drug precipitates)

PROCEDURE FOR REMOVING A VENOUS or ARTERIAL CATHETER OCCLUSION

- 1. Determine lumen volume of catheter
- 2. Use sterile technique for the procedure
- 3. Remove the dressing from the catheter and insure that there is no kink in the line
- 4. Prepare the alteplase solution, including any further dilution with normal saline
- 5. Instill the required volume of alteplase into the line under pressure (1.5 x internal lumen volume)
- 6. Allow the alteplase solution to dwell in the line for 2 to 4 hours (NOTE: some references cite a dwell time of 30 minutes, but effectiveness is much lower)
- 7. Aspirate the catheter to remove the infused volume of alteplase and the clot. Continue until there is free blood flow. DO NOT FLUSH. (Aspirate may be sent for blood culture as ordered by physician)
- 8. <u>If catheter aspirated successfully</u>: flush the catheter with 2 to 5 mL of normal saline (not dextrose). Resume IV infusion or lock lumen with heparin or saline, as appropriate
- 9. If catheter is still blocked: repeat steps 4 to 7 once
- 10. If catheter is still blocked, try streptokinase. If still blocked remove catheter.