

Thrombolytic Protocol for Declotting of Central Venous Access Devices
Methodist Healthcare – Memphis Hospitals

PHARMACIST:

Dispense Cathflo Activase vial and diluent (sterile water for injection, non-bacteriostatic)

NURSE:

1. Place completed copy of protocol in orders section of the medical record.
2. Obtain Cathflo Activase (alteplase) from pharmacy after specifying the number of lumens requiring treatment.
3. Alteplase is not compatible with heparin or bacteriostatic solutions. *If possible*, remove any heparinized saline or bacteriostatic normal saline from the catheter lumen by aspiration or flushing, followed by flushing with non-bacteriostatic normal saline.
4. Prepare the solution:
 - a. Withdraw 2.2 ml of sterile water for injection (non-bacteriostatic)
 - b. Inject the 2.2 ml sterile water for injection (non-bacteriostatic) into alteplase vial, directing the stream into the powder. If slight foaming occurs, let the vial stand undisturbed to allow large bubbles to dissipate.
 - c. Swirl vial gently until contents are completely dissolved. DO NOT SHAKE.
5. Instilling the solution:
 - a. Inspect solution for foreign matter and discoloration
 - b. Withdraw 2 ml (2 mg) of reconstituted solution from vial into a 10 cc luer lock syringe.
 - c. Instill alteplase dose (2 mg) slowly into catheter.
 - d. Allow the alteplase to dwell at least 30 minutes prior to aspirating.
 - e. If unable to aspirate, allow alteplase to dwell an additional 90 minutes (120 minutes total) before re-attempting aspiration.
 - f. Label catheter "Do not use" until alteplase is removed.
 - g. If catheter clears, aspirate 4 to 5 mls of blood then flush catheter.
6. If patency is not restored, the alteplase dose may be repeated once.
7. If a repeat dose is necessary, allow at least a 2 hour dwell time prior to attempting aspiration. If the catheter has not cleared, notify physician for additional orders.

Catheter	Inner Volume	Dose of Alteplase
Dialysis Catheter	1.9-2.3 ml	2 mg in 2 ml
PermaCath	1.9-2.3 ml	2 mg in 2 ml
Central Line (Single thru Quad)	0.35-0.5 ml	2 mg in 2 ml
PICC	0.4 ml	
Port-A-Cath (+ access device)	1.4 ml	
Hickman Catheter	1.3 ml	
Pherese-Flo Catheter		2 mg in 2 ml
Red line	1.7 ml	
Blue line	1.5 ml	
White line	0.9 ml	
Arrow Pheresis Catheter		2 mg in 2 ml
Blue line (12 G)	1.3 ml	
Red line (12 G)	1.2 ml	
Blue line (16 G)	0.35 ml	

Initiated per order of Dr. _____ / _____ RN

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