

# ALTEPLASE (t-PA) FOR OCCLUDED VENOUS CATHETER PEDIATRIC ORDER SET

Weight in kg:	Allergies:
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## I. TYPE OF VENOUS CATHETER:

- PIV
- PICC
- Single lumen tunneled catheter
- Double lumen tunneled catheter
- Port-a-cath (Mediport)

## II. MEDICATION:

1. Instill \_\_\_\_\_ mL Alteplase (1mg/mL) IV to fill the occluded catheter lumen.

### Dosing Guidelines:

- If patient's weight is <30 kg: Dose volume = 110% of catheter lumen volume plus 0.25 mL for priming the stopcock. (Maximum dose = 2 mL)  
For catheter lumen volume, refer to the Catheter Priming Volume chart (see back).
  - If patient's weight is ≥30 kg: Dose volume = 2 mL.
2. Wait 30 minutes
  3. Attach 10 mL syringe and attempt to aspirate 5 mL.
  4. a) If able to aspirate at least 3 mL, flush with Normal Saline and go to Step 5  
b) If unable to aspirate at least 3 mL, wait an additional 90 minutes and repeat Step 3 and 4.  
c) If no results after 90 minutes, give a second dose of Alteplase and repeat Step 2, 3, and 4.  
d) If no results after the second dose of Alteplase, go to Step 6.
  5. If venous catheter is cleared, resume catheter use or Heparin Lock with \_\_\_\_\_ mL of Heparin \_\_\_\_\_ unit/mL.
  6. If venous catheter is not cleared after two doses of Alteplase, contact physician.

## CATHETER PRIMING VOLUME CHART

Tunneled Catheters			
Brand	Size	Small Lumen (Volume)	Large Lumen (Volume)
Bard Broviac (Single Lumen)	2.7 F	0.15 mL	N/A
	4.2 F	0.3 mL	N/A
	6.6 F	0.7 mL	N/A
Bard Hickman (Single Lumen)	9.6 F	1.8 mL	N/A
Bard Power-Injectable (Single Lumen)	5 F	0.66 mL	N/A
Bard Hickman (Double Lumen)	7 F	0.6 mL	0.8 mL
	9 F	0.6 mL	1.3 mL
	10 F	1.3 mL	1.3 mL
	12 F	1.8 mL	1.8 mL
Bard Power-Injectable (Double Lumen)	6 F	0.62 mL	0.62 mL
	9.5 F	1.3 mL	1.3 mL
Cook Catheter (Double Lumen)	7 F	0.7 mL	0.9 mL
	9 F	1.5 mL	2 mL
	12 F	1.6 mL	2.7 mL
Non-Tunneled Catheters			
Brand	Size	Small Lumen (Volume)	Large Lumen (Volume)
Cook Catheter (Single Lumen)	2.5 F	0.05 mL	N/A
	3 F	0.1 mL	N/A
	4 F	0.1 mL	N/A
Cook Catheters (Double Lumen)	4 F	0.1 mL	0.2 mL
	5 F	0.2 mL	0.2 mL
Cook Catheter (Triple Lumen)	5 F	0.2 mL	0.3 mL
	7F	0.3 mL	0.5 mL
Implanted Venous Access Ports			
Brand	Size	Small Lumen (Volume)	Large Lumen (Volume)
Bard Single Lumen Low Profile	6.6 F	0.9 mL	N/A
Bard Single Lumen X-Port ISP	6 F	1.6 mL	N/A
Bard Single Lumen Regular	6.6 F	1.2 mL	N/A
	8 F	1.8 mL	N/A
Bard Dual Lumen	10 F MRI	1.8 mL	1.8 mL
Power Port Slim			
Brand	Size	Small Lumen (Volume)	Large Lumen (Volume)
Bard Chronoflex	6 F	1.1 mL	N/A
Power Port			
Brand	Size	Small Lumen (Volume)	Large Lumen (Volume)
Bard Chronoflex	6 F	1.2 mL	N/A
	8 F	1.5 mL	N/A
	9.5 F	1.5 mL	N/A
Bard Groshong	8 F	1.5 mL	N/A
Bard Silicone	9.6 F	1.5 mL	N/A
Peripherally Inserted Central Catheter (PICC)			
Brand	Size	Small Lumen (Volume)	Large Lumen (Volume)
Arrow (Dual Lumen)	4 F	0.33 mL	0.38 mL
Bard Groshong (Single Lumen)	8 F	1.5 mL	N/A
	9.6 F	1.5 mL	N/A
Bard Groshong (Double Lumen)	5 F	0.41 mL	0.41 mL
BD L-cath	1.2 F (28G)	0.06 mL	N/A
	1.9 F (24G)	0.1 mL	N/A
Boston Sci. Vaxcel (PASV) (Single Lumen)	4 F	1.5 mL	N/A
Boston Sci. Vaxcel (PASV) (Double Lumen)	5 F	1 mL	N/A
Bard Per-Q-cath (Single Lumen)	3 F	0.42 mL	N/A
Bard Per-Q-cath (Double Lumen)	4 F	0.38 mL	0.48 mL
Bard Power-injectable PICC	4 F	0.67 mL	N/A
	5 F	0.57 mL	0.57 mL