

PROCEDURE FOR: Central Venous Pressure Catheter

POLICY: Either continuous monitoring via a transducer or intermittent H₂O manometer may be utilized. Either system must be changed every 3 days.

EQUIPMENT: Continuous Pressure Monitoring
Single or multi-lumen pressure transducer system
Pressure Monitor/Module
Central venous access (individual line or brown port of triple lumen)
500ml bag .9 N/S - unless otherwise ordered.
Pressure bag

PROCEDURE:

	<u>ACTION</u>	<u>POINTS OF EMPHASIS</u>
A.	Continuous Pressure Monitoring	
1.	Assemble A-line set up as per arterial line monitoring procedure or Swan-Ganz multi-lumen monitoring system.	1. Make sure there are no air bubbles in the system.
2.	Connect pressurized tubing to central venous catheter.	
3.	Zero and calibrate transducer system.	
4.	Validate waveform on monitor. Obtain 'mean' pressure reading.	4. Refer to Hemodynamic Monitoring Protocol waveform validation.
B.	Obtaining blood samples	
1.	Level transducer when patient in position of comfort.	1. This is not necessary if the system is not being used for readings.
2.	Attach syringe to CVP stopcock; open to CVP catheter and syringe.	
3.	Aspirate slowly approximately 6cc of blood and discard. If drawing coagulation studies (i.e., PT, PTT), draw sufficient discard (i.e., 6 times the dead space tubing).	3. If the hub is further than 3" from the insertion site, then aspirate and discard 2cc for every 1" beyond the 3", plus the 6cc.

PROCEDURE FOR: Central Venous Pressure Catheter

<u>ACTION</u>	<u>POINTS OF EMPHASIS</u>
4. Turn stopcock to halfway position to close all ports, remove syringe and attach blood sample syringe.	
5. Open to CVP catheter and syringe. Obtain blood sample. Close to halfway position and remove syringe.	
6. Resume IV fluids to clear stopcock and CVP catheter.	6. If catheter is not being used for readings, flush line with 6cc of heparinized saline.

APPROVAL: ICU Standards Committee
Nursing Standards Committee
AACN Procedure Manual for Critical Care
Cardiac Step-Down Standards Committee

EFFECTIVE DATE: 2/87

REVISION DATES: 2/90, 1/93, 1/94, 1/95, 3/96, 5/97, 6/97, 8/99, 10/03

REVIEWD DATES: 9/08