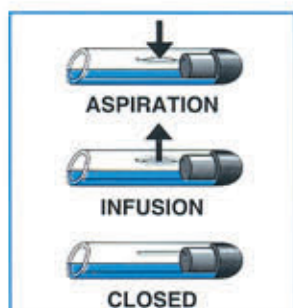
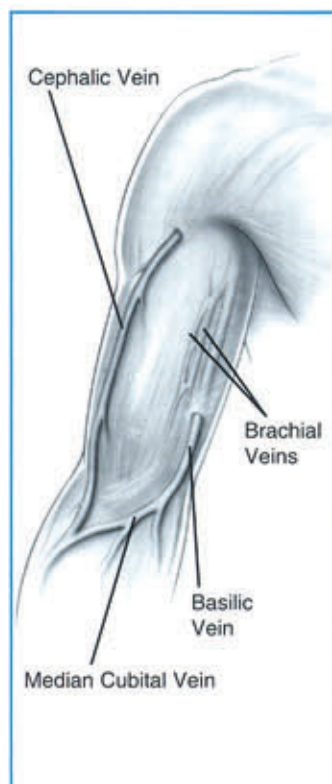


Bard Access Systems

BardPort™ Low Profile Port With Groshong® Catheter



Key Steps For Arm Implantation Using Radiological Techniques

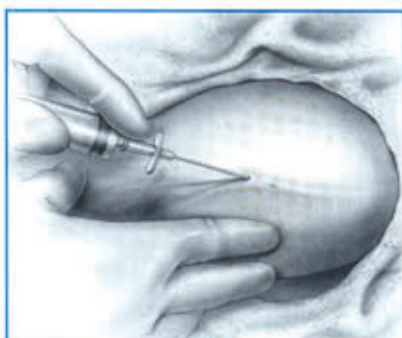


CAUTION: Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.

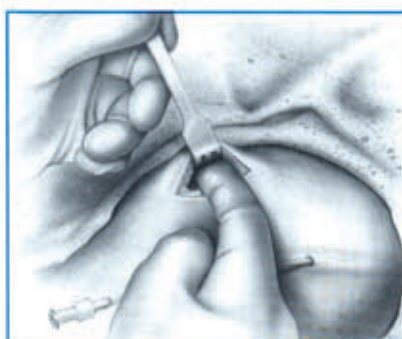
Possible complications include peripheral nerve injury. Please refer to the Instructions For Use for complete implant instructions, warnings, complications and precautions.

WARNING: An issued or revision date for these instructions is included for the user's information. In the event two years have lapsed between this date and product use, the user should contact Bard Access Systems to see if additional product information is available.

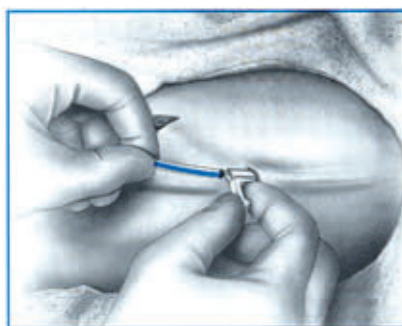
Issued date: March, 1995



1 Identify suitable vein in upper arm by ultrasound (US) or venography, and access with a small gauge needle utilizing US/venographic guidance.



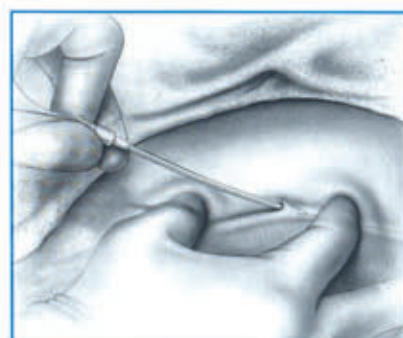
3 Select a suitable site for a subcutaneous pocket that facilitates port access. Placement should consider the amount of cutaneous tissue over the port, as well as port stabilization. Make a small skin incision and dissect the subcutaneous pocket. A tissue thickness of 0.5cm to 1.5 cm is generally considered appropriate. Hemostasis within the pocket should be achieved.



5 Place catheter (pre-primed with normal saline) into venous system through introducer sheath. Catheter tip should rest at the SVC-RA junction. A guidewire may be needed to direct catheter to required location. Remove introducer sheath.



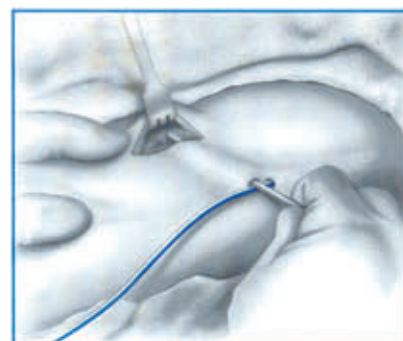
7 Place catheter through tunnel and cut to length. Attach catheter to port, aspirate blood and flush. Secure port in pocket with sutures.



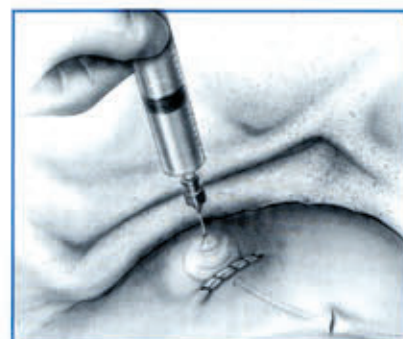
2 Insert guidewire through needle. Remove needle and insert transition dilator and sheath over the guidewire. Remove guidewire and dilator, confirm location and flush.



4 Insert larger guidewire through transition sheath and remove sheath. Place introducer sheath and dilator over the guidewire and advance into the vein. Remove guidewire and dilator and leave sheath in place.



6 Make tunnel (if needed) to connect the subcutaneous pocket to the venous access site.



8 Close pocket. Access port, aspirate blood, and flush system with normal saline.

Bard Access Systems
Hickman, Groshong, Designs for Life.®

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