Additional Instructions for Use of Groshong* and Per-Q-Cath* PICC or Midline Catheters in Pediatric Patients

The following instructions are to be used in conjunction with the primary Groshong* or Per-Q-Cath* PICC or Midline catheter Instructions for Use and facility protocol. For additional information regarding placement and use of PICCs or Midline catheters in pediatric patients, reference appropriate clinical guidelines, such as those provided by the National Association of Neonatal Nurses (NANN), the Pediatrics Vascular Access Network (Pedivan) and the Infusion Nurses Society (INS.).

Indications for Use / Contraindications:
Consult primary Groshong* or Per-Q-Cath* PICC or Midline catheter Instructions for Use for catheter indications for use, contraindications, warnings and precautions.

Possible Complications:
Consult primary Groshong* or Per-Q-Cath* PICC or Midline catheter Instructions for Use for possible complications.

Caution: Insertion techniques and placement locations are often modified according to the size and developmental age of the child. Only clinicians experienced in proper positioning and placement of PICCs or Midline catheters in pediatric patients should place this catheter in this patient population.

Note: Insertion of PICCs or Midline catheters in pediatric patients may require the use of accessories or components not included in this kit configuration, based on the size and developmental age of the child and facility protocol. Follow manufacturer’s recommendations regarding use of any drugs or medications such as chlorhexidine prep solutions, lidocaine injection and heparin lock solutions.

Catheter and Vessel Selection:
“Site selection for vascular access shall include assessment of the patient’s condition; age; diagnosis; comorbidities; condition of the vasculature at the insertion site and proximal to the intended insertion site; condition of skin at intended insertion site; history of previous venipunctures and access devices; type and duration of infusion therapy; patient preference.” In addition, facility policies, procedures, and/or practice guidelines can be used to assess proper site selection, [INS, 2011]

Veins that should be considered for PICC or Midline cannulation within the upper extremities include basilic, median cubital, cephalic, and brachial veins. Additional site selections for pediatric patients may include the temporal and posterior auricular veins. Although the saphenous veins may be used on non-mobile pediatric patients [INS, 2011 / PEDIVAN, 2010], this catheter has not been evaluated for risks associated with tip placement in the Inferior Vena Cava (IVC).

Note: The vein must be appropriately sized to accommodate the catheter size. Guidelines for PICC or Midline placement recommend that the diameter of the vein should be approximately two times the outer diameter of the catheter, [INS, 2010]

Skin Preparation:
Prep the insertion site and surrounding skin per facility policies, procedures, and/or practice guidelines. Chlorhexidine is not recommended for infants under 2 months of age [INS, 2011]. Povidone iodine should be removed from the skin after the procedure to prevent tissue damage, absorption, and thyroid suppression. [NANN, 2007]

Insert and Advance the Catheter:
Target tip location for PICCs is the lower 1/3 of the SVC, above the right atrium. [NANN, 2007] Ensure the catheter lies parallel to the vessel wall.

Warning: This is not a right atrium catheter. Avoid positioning the catheter tip in the right atrium. Placement or migration of the catheter tip into the right atrium may cause cardiac arrhythmia, myocardial erosion or cardiac tamponade. The risk of these complications may be more likely in neonatal patients.

Catheter Maintenance:
Follow the primary Groshong* or Per-Q-Cath* PICC or Midline catheter Instructions for Use regarding flushing and locking of the catheter.

Note: When infusion volume is a concern in small or pediatric patients, flush with 3mL per lumen or per facility guidelines.

Caution: DO NOT USE A SYRINGE SMALLER THAN 10mL.

Periodically confirm catheter placement, tip location, patency, and security of dressing.

References:


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

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