

Section: Division of Nursing
Approval: _____

* **PROCEDURE** *

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Issue Date: April 23, 1990
Revised Date: Feb. 2008

HACKETTSTOWN REGIONAL MEDICAL CENTER

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NEWBORN SERVICES
(Scope)

TITLE: UMBILICAL CATHETERIZATION – ASSIST WITH PROCEDURE

PURPOSE: To outline procedure to administer intravenous fluids, to administer medication, and to withdraw blood for laboratory specimens on newborn.

SUPPORTIVE DATA: Procedure must have physician's order and be done by physician.

EQUIPMENT: Found in crash cart in Nursery, listed by drawer.

1st DRAWER

1. Medications
2. Syringes
3. Needles

4. Blood Gas Kits

3rd DRAWER

5. Neosporin ointment
6. Culturettes
7. Extra 2x2s or 4x4s gauze pads

4th DRAWER

8. Black silk suture
9. Knife blade, size 10
10. Sterile gloves for physician
11. Argyle umbilical catheter - various sizes
12. Cutdown tray
 - a) Forceps, plain
 - b) Forceps with teeth
 - c) Scissors, small (2)
 - d) Needle holder
 - e) Probe
 - f) Knife handle
 - g) 3-pronged retractor, small
 - h) Straight hemostats (2)
 - i) Curved hemostats (2)
 - j) Small metal kidney basin
13. Iris forceps
14. Betadine swabs

5th DRAWER

KEY POINTS

2. Have available 3, 5 and 10cc.
3. Usually 18 or 22 gauge for drawing up medication.

8. Ask physician what size he would prefer.

11. Usually size 3-1/2 or 5 French.
12. When CS places instruments on metal tray, a folded towel covers the tray so instruments don't slide.

Four OR towels and a small stack of 4x4s will also be added before set is wrapped.

Also needed but not on tray:
Fenestrated drape, suture, and/or umbilical tape.

15. IV fluid

IN NURSERY

16. IV tray and tape – nursery closet
17. May use any micro-infuser pump.

CONTENT:

PROCEDURE STEPS:

KEY POINTS:

1. Physician will explain procedure to parents.
 2. Immobilize infant in supine position.
 3. Set up IV fluid rate infuser.
 4. Have tape ready, then open cutdown tray and add all sterile supplies.
 5. Pour antiseptic into small container.
 6. Assist physician as needed with procedure.
 7. After catheter is inserted in umbilical vein or artery, assist in attaching IV fluid.
 8. Physician will then suture catheter in place.
 9. Apply Neosporin ointment, gauze and tape per physician's instructions.
 10. Physician will order an x-ray for catheter placement.
 11. IV rate of ml's per minute and amount of fluid infused are to be calculated hourly.
 12. Mark IV with date and time started and any medication added.
 13. Document insertion of umbilical catheter in nursing notes.
 14. Charge for procedure and all equipment used.
- On Ohio, baby may be restrained on circ board during procedure. In isolette, baby may be restrained by use of tape and safety pins.
- Any ordered medication may be piggybacked through injection site of tubing. See procedure 6170.010a
- Physician may prefer betadine swabs.
- Baby may require suctioning, increased O₂, etc., during procedure as this is a high stress time.
- Record on Nursery I&O flow sheet.
- Complete IV set-up and tubing should be changed every 24 hours.
- Assess NIPS scale