

TITLE OF SKILL INTRAVENOUS CANNULATION

INTRODUCTION (RATIONALE):

This is one of the most important skills for giving parental Medications and fluids to patient.

LEARNING OBJECTIVES:

At the end of the session students should be able to:

- ❖ Identify the correct sites for I/V cannulation
- ❖ Demonstrate the correct method for I/V cannulation

EQUIPMENT/MATERIAL NEEDED:

Same as for venipuncture, with addition of:-

- ❖ Appropriate size of I/V cannula
- ❖ Heparin lock
- ❖ Adhesive tape

VIDEO DEMONSTRATION

PROCEDURE

1. Initial steps are same as of venipuncture)till step 9)
2. Hold a cannula with bevel up. insert a needle at 15 to 30 degree angle
3. Observe the flash back and then advance the device slightly. Avoid double pricking, if you see swelling remove cannula, apply pressure and change the site
4. Release tourniquet.
5. Apply pressure at the cannula tip to prevent back flow
6. Retract the stylet and dispose in sharps container
7. Run a few drops of I/V fluid to check free flow and observe for swelling
8. If a free flow is achieved attach the drip or heparin lock
9. Fix the cannula with tapes
10. Write date and time of the procedure over the tapes as well as in the pt's file.
11. Thank the patient

BACKGROUND INFORMATION (THEORETICAL INFORMATION TO BE READ BY THE STUDENT)

INDICATIONS:

- Administrative fluids, medications and blood
- For emergency access
- For parental nutrition's
- For obtaining blood samples
- For delivering anesthetics

CONTRAINDICATIONS:

- A same side cannula
- Patients with fistula or scheduled to have fistula for dialysis
- Avoid puncturing dominant arm
- Vein distal to a previous I/V site
- Joints and bony prominences
- Sclerosed or thrombotic veins
- Veins with overlying cellulites or skin breakdown

COMPLICATIONS:

- Phlebitis
- ThromboPhlebitis
- Septic ThromboPhlebitis
- Infiltration
- Hematoma
- Nerve damage

CAVEATS:

- Cannula should be removed at the first sign of infection or swelling (needs regular inspection)
- Cannula should not be left in vein for more than 48 hours