

HOW TO ADMINISTER IV THERAPY VIA PERIPHERAL VENOUS CANNULATION

Hospitals commonly use peripheral venous catheters to deliver intravenous (IV) therapy. A small flexible catheter is inserted into a peripheral vein via a needle which is removed, leaving the catheter in place. This is used in many clinical situations including the administration of IV fluids and drug therapy, and transfusions of blood and blood products.

CANNULA TYPES AND SIZES

Cannulae come in different lengths and diameters. Choose a cannula size that takes into account the patient's age, the administration site, and how fast the medication needs to be administered. An 18-gauge only uses the smallest gauge and shortest length cannula that will meet duration of the IV therapy.

Age	18-gauge	20-gauge	22-gauge	24-gauge	26-gauge	28-gauge
Adult	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0
Child	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0
Infant	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0
Neonate	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0

DIFFICULTIES AND COMPLICATIONS

Complications of cannula insertion include hematoma at the cannula insertion site, possible delamination of the venous sheath, extravasation, transient cutaneous catheterization site-related burning, stinging, and itching. An infection related to cannula insertion can lead to cellulitis like infection or catheter related bloodstream infections.



CANNULATION SITES

Choosing sites to obtain perfusions can be challenging due to factors like obesity, low venous tone, or dehydration, and/or patients on drugs with chronic alteration of the drug use history. Try to choose a straight, healthy, well-filled vein. Starting distal to the arm with the dorsal veins on the hand, working proximal to the cephalic or basilic veins of the forearm area, followed by the antecubital fossa (ACF) vein if needed.

EQUIPMENT

- Cannula pack with extension tube
- Gauze
- Clean antiseptic line or disinfectant swab
- Cannula dressing
- Sterilizing wipe or clean cloth
- 4-10 mL saline flush
- Alcohol swab or applicator to clean site
- Sterile adhesive tape (if needed)
- Sterile adhesive tape (if needed)

PROCEDURE

Each step has slightly different equipment and variable methods of venous insertion. Administration time based on procedure.

1. Wash hands and don gloves. If you require non-sterile technique procedure. Prepare the sterile field, saline flush, prime the cannulation set, and flush the IV line. Place the sterile dressing under the patient's arm. Prepare the area for an appropriate cannulation site.
2. Apply the tourniquet 1-2 inches (5-10 finger widths) above the cannulation site. For the vein on the patient to regularly rotate a flat or rounded non-occlusive (NOC) 30.
3. Identify a suitable vein for cannulation and palpation (palpation) of the hand and working up the arm, working more proximal (NOC) 30.
4. Clean the insertion site per protocol (if at least 10 seconds, working from the center outward) and/or if any occlusive (NOC) 30.
5. Prepare the cannula by removing the sheath, opening the stop, slightly withdrawing and replacing the handle to ensure a glass cannula. Remove or loosen the outer cap and hang it in the tray.
6. Break the cannula. Advance the vein with your non-dominant hand gently pulling on the vein below the insertion site. Hold the patient's arm in a "palm up" position. Bend the cannula handle at a 90-120° angle with the bevel facing upwards. Load the cannula in the sheath (NOC) 30.
7. After the first flashback, from the cannula advance the catheter 2 mm. Then slightly withdraw the handle to confirm the catheter is in the vein. Fully advance the cannula forward (NOC) 30.
8. Advance the cannulation. Place saline under the cap and apply pressure above the cannula tip to confirm blood flow (NOC) 30.
9. Remove the tourniquet handle while holding the cannula in place (NOC) 30 and dispose of it in the sharps bin.
10. Connect the patient's extension set to the pump (NOC) 30, fill and flush with saline (optional). Remove there is a standard connection. If connecting to your system, the cannula may have closed (NOC) 30. If there is no flow, gently rotate and only rotate to the initial position, but generally, that is not always before connecting to your blood line.
11. Remove the cannula with the dressing (NOC) 30. The connection site remains ready to be placed above insertion site to ensure the very rapid of patients. Always maintain no skin changes. Treatment time limit of insertion. The cannula connection for the first up to 12 hours.
12. Record the procedure in the patient's notes and use any filled appropriate on record sheet.

Therapy Made Easy With Computer Assistan

JL Elias



Therapy Made Easy With Computer Assistan:

The book delves into Therapy Made Easy With Computer Assistan. Therapy Made Easy With Computer Assistan is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Therapy Made Easy With Computer Assistan, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Therapy Made Easy With Computer Assistan
- Chapter 2: Essential Elements of Therapy Made Easy With Computer Assistan
- Chapter 3: Therapy Made Easy With Computer Assistan in Everyday Life
- Chapter 4: Therapy Made Easy With Computer Assistan in Specific Contexts
- Chapter 5: Conclusion

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