

ILLINOIS REGION 3 PROTOCOLS

INTRAVENOUS CANNULATION (ALS)**I. INDICATIONS**

- A. When an IV lifeline is needed or there is potential need to administer fluids or IV medications.

II. COMPLICATIONS

- A. Infection
- B. Nerve or artery damage
- C. Tissue sloughing
- D. Intra-arterial injection
- E. Air embolism
- F. Anaphylaxis
- G. Pulmonary edema
- H. Catheter embolization

III. PRECAUTIONS

- A. Check all equipment and supplies for expiration dates and sterility
- B. Check all IV solutions for cloudiness
- C. Assure all lines do not contain air bubbles

IV. EQUIPMENT

- A. IV solution (Normal Saline)
- B. Tubing (microdrip, macrodrip)
- C. Over the needle catheter or butterfly
- D. Tourniquet
- E. Iodine swab or alcohol swab
- F. Tape
- G. Arm board (optional)
- H. Personal protective equipment

V. PROCEDURE FOR EXTREMITY CANNULATION

- A. Take BSI precautions
- B. Assemble and prepare equipment
- C. Apply tourniquet proximally
- D. Locate vein and cleanse site with alcohol or Povidine - iodine
- E. Hold vein in place by applying pressure on vein distal to point of entry
- F. Cannulate vein
- G. Advance catheter and remove needle
- H. Remove tourniquet
- I. Attach IV tubing or primed saline lock male adapter
- J. Tape in place
- K. Dispose of IV needle in appropriate Sharps container

VI. PROCEDURE FOR EXTERNAL JUGULAR

- A. Place patient supine, at least 15^o head down position
- B. Turn patient head to opposite side unless contraindicated (head/spine injury)
- C. Cleanse site
- D. BSI precautions
- E. Make venipuncture midway between angle of jaw and midclavicular line, tourniqueting vein lightly with one finger above clavicle
- F. Advance catheter, remove needle and attach IV tubing
- G. Secure catheter in place

VII. SALINE LOCK NEEDLE

- A. Indication: when an IV lifeline is needed but the patient does not require IV fluid administration.
- B. Additional Equipment
 - 1. Male adapter
 - 2. Saline for injection
 - 3. 3 cc syringe/needle or prefilled syringe
 - 4. Alcohol preps
- C. Procedure
 - 1. Prime the male adapter by filling with saline for injection.
 - 2. After the IV is established, attach the primed male adapter to the hub of the IV catheter.
 - 3. Tape in place.
 - 4. Cleanse the adapter injection port.
 - 5. Flush with 3 cc saline for injection.

Blessing Hospital, EMS Medical Director

Passavant Hospital, EMS Medical Director

St Johns Hospital, EMS Medical Director

Memorial Medical, EMS Medical Director

Jersey Community Hospital, EMS Medical Director