

FOOTHILL COLLEGE EMS PROGRAMS

INTRAVENOUS (IV) SET UP/MONITORING

SKILLS LAB

PERFORMANCE OBJECTIVE

Rescuer will demonstrate the ability accurately to set up an IV using sterile technique. To accurately set up the appropriate drip rate per the proctor. Taking More than 15 minutes is a “FAIL” for this skill.

CONDITIONS

Rescuer will have several types of intravenous supplies for both medical and trauma patients. Rescuer will set up the IV order given to them by the proctor.

EQUIPMENT

50ml to 1000ml IV bags IV administration sets for 10 to 60 drop IV connector tubing

Rescuer States - “ I would perform PENMAN” and report patient’s General Impression, as stable or unstable”
Proctor Will State IV order: <ul style="list-style-type: none"> • IV Fluid, and available bag size (50ml, or greater) • IV Administration Set (10 or 60 drop) • Drip Rate ie, (50, 60, 100, 110, 120 dripps/minute etc)
Rescuer Will Select and Check – <ul style="list-style-type: none"> • Proper IV solution • Expiration date • Clarity or particulate matter in IV fluid • Proper administration set and connecting tubing
Rescuer Will Assemble IV – Student will assemble IV tubing using sterile technique. <ol style="list-style-type: none"> 1. Rescuer will assure that roller clamp is in the off position prior to spiking IV bag 2. Remove plug in IV bag, and cap over administration spike and spikes the bag 3. Rescuer will fill the drip chamber on the administration set. Do not overfill 4. Rescuer will use a controlled manner to fill up IV tubing without having bubbles (no bubbles) all the way to the tip of the connecting tubing. 5. Rescuer will recap connector tubing end.
Set Drip Rate – Rescuer will set drip rate per proctors directions. Order will be in number of “drops per minute”.
Rescuer Needs to Know and how Trouble-shoot - <ul style="list-style-type: none"> • Overfilled drip chamber • Clearing bubbles in the line • IV running in a patient that stops or slows down <ul style="list-style-type: none"> ○ Check patient’s arm to see if they have it folded ○ Is tubing kinked or pinched ○ Is the IV pole at different height then it was in the hospital ○ Is the IV solution out • Can you flush a line to clear a block - NO • Can you transport a patient that has a medication in the IV Solution - NO • What is a piggyback - a second IV solution connected to the primary line • Know what TKO means – To Keep Open. It means running the IV fast enough so it will continue to run and not clot at the end. • Know what infiltration means. Fluid is escaping into the tissue around the IV site that will cause swelling. <ul style="list-style-type: none"> ○ Know what to do - turn off IV and notify the receiving staff immediately
Rescuer States: “I will monitor the IV for signs of any concerns, which has been established by a paramedic or higher”
Rescuer States: “I would complete my secondary assessment”

Critical Criteria

- ____ Failure to take or verbalize appropriate PENMAN precautions
- ____ Failure to manage set up with aseptic technique

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- ___ Attempts to unclog IV with inappropriate measures
- ___ Failure to set flow rate given to them by proctor
- ___ Failure to manage IV set up as a competent EMT
- ___ Fails to apply splint in 15 minutes