

## Procedure: IV Tubing Administration Set & IV Solution Change

### A. Equipment & Consumables

- Prescribed sterile IV solution
- New IV administration set (primary IV tubing)
- IV pole
- Alcohol swabs
- Positive pressure cap (existing on patient line)
- MAR (Medication Administration Record)
- Electronic Infusion Device (EID) *if applicable*
- Gloves (if required by policy)

### Step-by-Step Key Sequence

“Prime first → keep sterile → scrub the hub → change tubing → check site → hand hygiene → document.”

### Important Notes

- IV solutions are medications → check against MAR
- Distal end of IV tubing must remain sterile at all times
- Scrub hub: 15 seconds scrub + 30 seconds dry
- Checklist\_IV Tubing Administrat...
- IV site should show no redness, swelling, or pain
- Use roller clamp for gravity infusion or EID for electronic control

### Documentation

- Date and time of IV tubing and solution change
- Type of IV solution
- Infusion rate
- IV site condition
- Nurse's name / initials

### B. Procedure Checklist

No.	Step / Criteria	Done (✓)	Not Done (X)
1	Verifies physician's order (type of solution, rate, duration) and gathers equipment	<input type="checkbox"/>	<input type="checkbox"/>
2	Performs hand hygiene	<input type="checkbox"/>	<input type="checkbox"/>
3	Introduces self, identifies patient using two identifiers, and explains procedure	<input type="checkbox"/>	<input type="checkbox"/>
4	Primes new IV administration set using a new IV solution bag and new tubing	<input type="checkbox"/>	<input type="checkbox"/>
5	Keeps distal end of IV tubing capped to maintain sterility	<input type="checkbox"/>	<input type="checkbox"/>
6	Labels IV solution and IV tubing as per agency policy	<input type="checkbox"/>	<input type="checkbox"/>

7	Hangs new IV solution and primed tubing on IV pole	<input type="checkbox"/>	<input type="checkbox"/>
8	Clamps old IV administration set / pauses EID	<input type="checkbox"/>	<input type="checkbox"/>
9	Scrubs connection between old IV tubing and positive pressure cap for <b>15 seconds</b> and allows to dry <b>30 seconds</b>	<input type="checkbox"/>	<input type="checkbox"/>
10	Removes sterile cap from distal end of new IV tubing	<input type="checkbox"/>	<input type="checkbox"/>
11	Disconnects old tubing and connects new IV tubing to positive pressure cap using aseptic technique	<input type="checkbox"/>	<input type="checkbox"/>
12	Opens roller clamp or inserts tubing into EID and restarts infusion at prescribed rate	<input type="checkbox"/>	<input type="checkbox"/>
13	Checks IV site for patency and signs of phlebitis	<input type="checkbox"/>	<input type="checkbox"/>
14	Disposes used supplies appropriately	<input type="checkbox"/>	<input type="checkbox"/>
15	<b>Performs hand hygiene after procedure (ABHR or soap and water)</b>	<input type="checkbox"/>	<input type="checkbox"/>
16	<b>Documents IV tubing and solution change as per policy</b>	<input type="checkbox"/>	<input type="checkbox"/>