



# Intravenous Administration

Advanced EMT

Paramedic

## PROCEDURE

- ❑ Obtain IV access, ensure patency prior to medication administration
- ❑ Prepare medication as directed in appropriate Standard Care Practice Guideline or Medication List
- ❑ Clean luerlock or hub connection with alcohol and allow area to dry
- ❑ **If administering medication through saline lock**
  - Attach hub of syringe to luer lock by twisting
  - Unclamp saline lock and administer medication as indicated, taking care to follow time of administration and watching for extravasation
  - Flush saline lock with at least 20cc 0.9% NS following completion of medication administration
  - If volume of medication is small (<2 mL) and/or administration time is longer than 10 seconds, give small amounts of medication at a time, with intermittent flushing with 0.9% NS to clear the medication out of the saline lock
- ❑ **If administering medication through syringe attached to hub on IV/IO tubing**
  - Attach to most distal access on main 0.9% NS line
  - Clamp tubing proximal to syringe
  - Administer medication as indicated, taking care to follow time of administration and watching for extravasation
  - Unclamp tubing and allow 0.9% NS to run after administration
  - If volume of medication is small (<2 mL) and/or administration time is longer than 10 seconds, give small amounts of medication at a time, with intermittent flushing with 0.9% NS to clear the medication out of the saline lock.
- ❑ **If administering medication via piggyback line to hub on IV/IO tubing (i.e., D10, Diltiazem)**
  - Attach **microdrip (60 gtts/min) tubing to medication bag**
  - Attach end of **microdrip tubing** to most distal access on main 0.9% NS line
  - Ensure medication bag is placed at a higher elevation than main saline bag
  - Administer medication as indicated in appropriate Standard Care Guideline Practice Guideline or Medication List
  - Leave main saline bag tubing unclamped during medication administration
- ❑ Dispose of syringe after administration

## REFERENCE GRAPHICS

Review  
PG / Med List

MACC

IV Piggyback

Primary set

Piggy-back set

Piggy-back port

## KEY POINTS

- Providers should follow the specific procedure for each medication as detailed in the Standard of Care Practice Guideline or Medication List for each medication, dose, route, length of administration, and indication
- A Medication Administration Cross Check (MACC) **must be performed** before any medication is administered

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Revision Date: April 2024