

INTRAOSSSEOUS (IO) CANNULATION PROTOCOL

PRACTITIONER QUALIFICATIONS:

1. Certified EMT-Intermediates and EMT-Paramedics may initiate adult and pediatric intraosseous cannulation.
2. Training on IO cannulation at site specific to IO device.
3. Demonstration of competency in the skill in a training setting.

TO QUALIFY FOR INTRAOSSSEOUS CANNULATION, THE PATIENT MUST MEET ALL OF THE FOLLOWING CRITERIA:

1. Have a very unstable, life threatening situation.
2. The practitioner is unable to establish IV access after two attempts or 90 seconds of searching for a suitable vein.

SITE OF INTRAOSSSEOUS CANNULATION:

1. All ages: Site specific to IO device.

EQUIPMENT FOR IO CANNULATIONS:

1. alcohol and/or iodine preps.
2. Saline for irrigation.
3. IV administration set.
4. Tape
5. 10cc syringe.
6. Age appropriate IO injection device: Any FDA approved IO device may be used consistent with manufacturer specifications and instructions.

PROCEDURE FOR IO CANNULATION:

1. Prepare the infusion setup.
2. Palpate landmarks and identify insertion site.
3. Using aseptic technique, prepare the injection site (alcohol, betadine, alcohol).
4. Adjust the trocar dept (age dependant)
5. **DEPLOY THE IO DEVICE PER MANUFACTURER'S SPECIFICATIONS.**
6. Confirm proper positioning in the medullary space:
 - a. The needle should stand without support.
 - b. After removing the trocar and attaching a 10cc syringe to the device, aspiration should produce a blood/marrow mixture.
7. Attach IV tubing to needle and begin administration (fluid should flow freely).
8. Check for extravasation.
9. Secure needle and tubing.
10. Observe for complications.
11. Notify medical control of successful placement and location.
12. Needle size, location and any difficulties with insertion should be recorded on the patient care form.

13. All ALS drugs and fluids may be given through the IO device.