

ADULT INTRAOSSEOUS PROCEDURE

ALWAYS USE BODY SUBSTANCE ISOLATION PRECAUTIONS

INDICATIONS

- Patient in extremis, cardiac arrest, or profound hypovolemia and in need of immediate delivery of medications or fluids and IV access is not possible in 90 seconds

CONTRAINDICATIONS

- Absolute contraindications:
 - Recent fracture of involved bone (less than 6 weeks)
 - Vascular disruption proximal to insertion site
 - Inability to locate landmarks
- Relative contraindications:
 - Infection or burn overlying the site
 - Congenital deformities of the bone
 - Metabolic bone disease

EQUIPMENT

- Intraosseous infusion needle and/ or mechanical device
- Betadine swabs or solution gauze
- Sterile gauze pads
- 10-12 ml syringe filled with 10 ml saline
- IV NS solution, tubing with 3 way stopcock
- Supplies to secure infusion
- Pressure bag

PROCEDURE

- Aseptic technique must be followed at all times
- Position and stabilize leg
- Locate primary site, 1-2 cm medial to tibial tuberosity
- Locate secondary site according to manufacturer's specification
- Prepare insertion site using aseptic technique with betadine
- Air or gauze dry
- Insert IO needle according to manufacturer's directions
- Confirm placement
- Attach syringe with 10 ml of saline to needle
- Aspirate if directed by manufacturer
- Syringe bolus with 10 ml saline
- If resistance is met, remove needle, apply pressure to site
- Disconnect syringe
- Attach pre-flooded IV tubing
- Stabilize as recommended by manufacturer
 - Fluid administration may require pressure
 - Monitor insertion site and patient condition