

## IV / IO ACCESS

**UPDATED 9/2024**

### ALL PROVIDERS / EMT

- ❑ Focused history and physical exam
  - Vital sign assessment, blood glucose, oxygen and temperature assessment.
  - Consider IV/IO placement for fluid therapy or medications as needed.
  - Any use of IV placement aides or devices for transillumination, etc. MUST be an approved medical device designed and rated for that purpose and specific patient population.

#### ADULT

#### PEDIATRIC

**NOTE: Pediatric weight based dosing should not exceed Adult dosing.**

#### AEMT

- ❑ **IV – Peripheral**
  - Preferred site is usually the hand or forearm, except in resuscitation when antecubital is preferred
  - Place the largest gauge catheter possible
  - If unsuccessful in the arm, then try feet or legs
- ❑ **IO - Interosseous**
  - Place the IO in the tibia or humeral head
  - Avoid fractured bones, infection sites, excessive edema or excessive tissue over the site
  - Consider a pressure bag for fluid therapy if an IO is placed
  - **NOTE:** in conscious patients **20-50mg of 2% Lidocaine** should be given SLOWLY through the IO before a fluid bolus
- ❑ **Fluid Therapy**
  - All fluid therapy is set at KVO/TKO unless giving a bolus of fluid
  - Bolus with NS or LR only
  - Refer to the ***Shock and Fluid Therapy Guideline for fluid management***

#### AEMT

- ❑ **IV – Peripheral**
  - Preferred site is usually the hand or forearm except in resuscitation when antecubital is preferred
  - Place the largest gauge catheter possible
  - If unsuccessful in the arm, then try feet or legs
- ❑ **IO - Interosseous**
  - Insert the appropriately sized needle for age and weight
  - The approved sites in children are the tibia and proximal humerus
  - Avoid fractured bones, infection sites, excessive edema or excessive tissue over the site
  - Consider a pressure bag or syringe boluses for fluid therapy if an IO is placed
  - **NOTE:** in conscious patients **0.5mg/kg of 2% Lidocaine** should be given SLOWLY through the IO before a fluid bolus
- ❑ **Fluid Therapy**
  - All fluid therapy is set at KVO/TKO unless giving a bolus of fluid
  - Bolus with NS or LR, 20mL/kg then reassess
  - Refer to the ***Shock and Fluid Therapy Guideline for further fluid management***

#### PARAMEDIC

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