Key Concepts

ARROW® EZ-IO® Intraosseous Vascular Access System
Indications & Contraindications

Indications

The ARROW® EZ-IO® Intraosseous Vascular Access System is indicated for adult and pediatric patients any time vascular access is difficult to obtain in emergent, urgent or medically necessary situations for 24 hours.

<table>
<thead>
<tr>
<th>Adults</th>
<th>Pediatrics</th>
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<tbody>
<tr>
<td>Proximal humerus</td>
<td>Distal femur</td>
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<tr>
<td>Proximal tibia</td>
<td>Proximal humerus</td>
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<td>Distal tibia</td>
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Contraindications

Fracture of target bone
Infection at area of insertion
Inability to identify landmarks
IO or attempted IO access in target bone within previous 48 hours
Prosthesis or orthopedic procedure near insertion site
Anatomy and Physiology

Highly vascular, non-collapsible access

Rapid flush to displace marrow
Real-time Fluoroscopy – Human Model
Proximal Humerus Site Identification
Tibia Site Identification

**Adult**

**Infant/Child**
• Secure the leg out-stretched
• Ensure the knee does not bend
Clinical judgment should be used to determine appropriate needle set selection based on patient weight, anatomy and tissue depth overlying the insertion site.

- **15 mm**
  - 15 gauge
  - Indicated for patients weighing 3-39 kg

- **25 mm**
  - 15 gauge
  - Indicated for patients weighing 3 kg or over

- **45 mm**
  - 15 gauge
  - Indicated for patients weighing 40 kg or over, excessive tissue depth
Needle Set Selection

- Estimate tissue depth
- Confirm with 5 mm mark visible above the skin
Prepare Supplies

- Prep site and prepare supplies
  - Open EZ-Stabilizer® Dressing
  - Prime the EZ-Connect® Extension Set
  - Attach Needle Set to Driver
Insertion Technique

- Use minimal pressure
- Stabilize hub when removing driver
- Apply EZ-Stabilizer® Dressing
- Firmly attach primed EZ-Connect® Extension Set
- Immobilize extremity for humerus and femur insertions
Flush/Infusions/Medications

FLUSH

Adults: 5-10 mL
Infants/Children: 2-5 mL

INFUSIONS

- For optimal flow infuse with pressure
- Administer medications in same dose, rate and concentration as given via peripheral IV

Consider for blood typing and other commonly ordered labs
2% lidocaine (preservative-free and epinephrine-free)

- **Adult**: Typically 40mg
- **Infant/Child**: Typically 0.5 mg/kg (NOT to exceed 40 mg)

- **Lidocaine**
  - Initial dose 120 seconds
- **Dwell**
  - 60 seconds
- **Rapid Flush**
- **Lidocaine**
  - $\frac{1}{2}$ initial dose 60 seconds

≥ 4 minutes total time

www.eziocomfort.com

Observe cautions/contraindications for lidocaine, confirm dose per institution
• Assess frequently to ensure:
  • Wrist band is on patient
  • No evidence of complications
    − Catheter is intact/patent
    − No evidence of infiltration/extravasation
  • Dressing & connections are secure
  • Repeat flush as needed
  • Need for initial or additional lidocaine

• Removal
24 Hour Clinical Support  800-680-4911

Education Resources
www.teleflex.com/ezioeducation

Connect with the App for iPhone & Android
This material is not intended to replace standard clinical education and training by Vidacare LLC, a subsidiary of Teleflex Incorporated, and should be utilized as an adjunct to more detailed information which is available about the proper use of the product. View educational resources at www.teleflex.com/ezioeducation or contact a Teleflex clinical professional for any detailed questions related to product insertion, maintenance, removal and other clinical education information.

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