EZ-IQ® Clinical Application Tips does not replace education, but can be used as a reminder of basic steps. Please consult EZ-IQ® clinical professionals for any detailed questions related to insertion, maintenance, removal, etc.

**INITIAL CARE ADMINISTRATION**
- Prior to flush, consider IO 2% lidocaine without preservatives or epinephrine (cardiac lidocaine) for patients responsive to pain.
  - Follow institutional protocols/policy.
  - Medications intended to remain in the medullary space, such as a local anesthetic, must be administered very slowly until the desired anesthetic effect is achieved.
  - A qualified prescriber must authorize appropriate dosage range.
- Flush the EZ-IQ® catheter with 10 ml of sterile solution – some patients may require multiple flushes and experience a short duration of discomfort/pain with each flush.
  - **NO FLUSH = NO FLOW**
- Infuse fluid or medication as indicated.

**ADMINISTRATION**

1. Draw 2 ml for waste before collecting sample for laboratory analysis.
2. Transfer blood samples to test tubes immediately, as IO blood clots faster than venous blood (a heparinized syringe may be used).
3. Label sample to indicate it is IO blood.

**LABORATORY CONSIDERATIONS**

1. Prior to flush, consider IO 2% lidocaine without preservatives or epinephrine (cardiac lidocaine) for patients responsive to pain.
2. Follow institutional protocols/policy.
3. Medications intended to remain in the medullary space, such as a local anesthetic, must be administered very slowly until the desired anesthetic effect is achieved.
4. A qualified prescriber must authorize appropriate dosage range.

**CARE & MAINTENANCE**
- Assess site per your facility’s protocol.
- Treat and maintain like a peripheral IV.
- Monitor for flow and any potential signs of extravasation.
- Use additional lidocaine if needed for pain management.

**REMOVAL**
- Remove within 24 hours.
- Using a sterile Luer-lock syringe as a handle, attach to hub of needle, maintain alignment and rotate clockwise while pulling straight up.
  - Avoid rocking the needle on removal.
- Place removed catheter in an approved sharps container.
- Following EZ-IQ® catheter removal, apply gentle pressure and dress site appropriately.
- Remove EZ-IQ® wrist band.

**AFTERCARE**
- Patient should be able to resume normal activities immediately.
- Patient should be directed to contact their physician if they experience signs and symptoms of infection or pain around the insertion site.
PRODUCT REMINDERS

VASCULAR ACCESS DRIVER

• Drivers are sealed and not intended to be opened.
• Batteries are not replaceable.
• Follow the driver’s Instructions for Use when cleaning.
• Do not use excessive force during insertion. Let the driver do the work.
• Red battery indicator light indicates only 10% of battery life remains.
  ◦ Consider using backup vascular access driver or purchasing a replacement driver.

EZ-IO® NEEDLE SETS

• Single use only. Ensure package has not been damaged.
• Consider patient tissue thickness in needle selection.
• To confirm appropriate needle selection, a black line on the needle must be visualized after insertion through the tissue.

> 45mm (Yellow) Needle Sets should be considered for the proximal humerus, on patients greater than 40kg, and patients with excessive tissue over other insertion sites.

> 25mm (Blue) Needle Sets may be considered for the tibia and patients 40kg and greater.

> 15mm (Pink) Needle Sets may be considered for small patients 3-39kg.

> NOT STERILE!
  Training (Red) Needle Sets are for training only.

EZ-STABILIZER

• The EZ-Stabilizer is made with a strong medical adhesive tape that is simple to apply for secure placement of the EZ-IO® Needle Set.
• Designed for 15mm, 25mm, and 45mm EZ-IO® catheters regardless of location.
• Single use only.

CONTRAINDICATIONS FOR USE

• Fracture in target bone.
• Excessive tissue and/or absence of adequate anatomical landmarks.
• Infection at the area of insertion.
• Previous prosthetic limb or joint procedure at the site.
• IO in past 48 hours.

For more information, please contact us
1-866-479-8500