

EZ-IO Power Driver

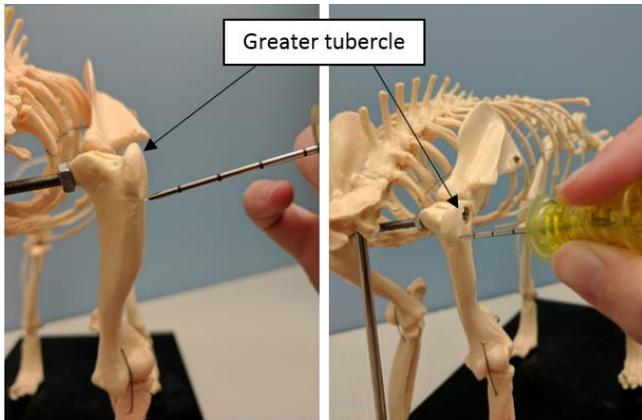
What is in each training needle set?

Each training set contains the EZ-IO needle, the EZ-Connect extension set (with a priming volume of 1ml), an EZ-IO wristband, and a NeedleVise® 1-port (single use) sharps container.

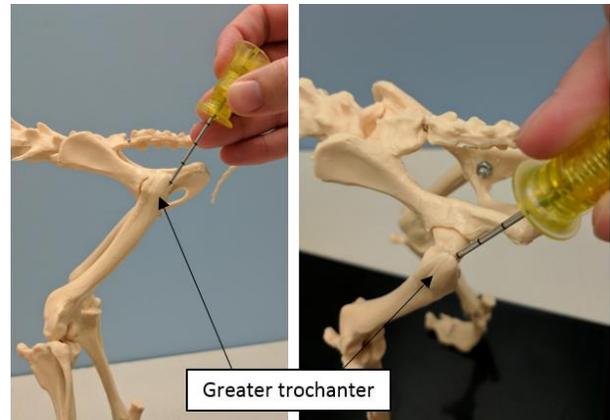
Be sure to **SAVE** and clean the needle and stylet. The needle set can be re-sterilized and used again 2-3 times. Return the cleaned needle set to the Criticalist office and notify Beth Eisenberg that you used a needle.

IVG-specific information
The VetStar code is t246
The cost per use is \$156

IO Catheter insertion sites



Insertion into greater tubercle of the humerus.
Needle alignment perpendicular to humerus in large patients.



Insertion into trochanteric fossa, medial to greater trochanter
Needle aligned with long axis of femur

Using the EZ-IO power driver

1. For all insertion sites, clip the skin of fur and sterilely prepare the skin, in the same manner as placing an IV catheter. Given that the EZ-IO is used most often in emergency situations, this should be completed rapidly and efficiently.
2. Choose the appropriately sized needle set and remove from the sterile packaging.
 - a. Humerus: <60# - 1.5cm; >60# - 2.5cm.
 - b. Femur: <40# - 1.5cm, 40-80# - 2.5cm, >80# - 4.5cm
3. Attach the needle set to the driver – there is a strong magnet that holds the needle in place on the driver.
 - a. **SAVE THE NEEDLE CAP**
4. Grasp the power driver with your dominant hand. Locate the site of insertion and firmly push the needle through the skin until bone is reached. Holding the skin taut with the other hand, depress the trigger on the gun to drive the needle through the bone into the medullary cavity. Once the base of the needle is against the skin, release the trigger of the gun. Detach the gun from the needle base.
5. Remove the stylet twisting the plastic portion off, revealing the lumen of the catheter.
 - a. **SAVE THE STYLET**
6. A luer-lock syringe can be attached directly to the catheter, if desired. If using the EZ-attach extension set, prime the tubing with 1ml sterile saline before attaching to the catheter. Attach a luer-lock syringe to the extension set and apply negative pressure to the line. If no blood or bone marrow contents appear within the line, flush a small volume of saline to clear any potential bony plugs from the catheter. Then try re-aspirating. Once blood or bone marrow appears, correct placement is confirmed and the catheter can be used for injections.
7. Once the patient is stable, gain IV access as soon as reasonable. Remove the IO catheter by pulling with steady pressure.
 - a. **SAVE THE IO CATHETER.** Clean, then replace the stylet and cap. Return to the Criticalist office.