



## Central Shenandoah Emergency Medical Services Council

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Date: March 16, 2007  
To: EZ-IO Training Attendees  
From: Matt Lawler, Assistant Director *ML*  
Re: Modification of Protocols and Guidelines

Thank you for taking the time to attend the EZ-IO<sup>®</sup> Product System training conducted by Vidacare at the end of February. Michelle Moe did a great job presenting the material. I am sure you are excited about the product and are anxious to use it. You will be happy to hear that the device has already be successfully utilized with no problems or complications reported.

The number of providers that need to be trained has recently been expanded. This month, the Medical Control Review Committee moved to include the Shock Trauma and EMT-Enhanced levels as authorized levels to use the EZ-IO<sup>®</sup> Product System.

After the Vidacare training was conducted, I received some questions regarding the expectations for the training you will be conducting on the device. I would like to provide you with a brief outline of the material that should be covered. While this is a sample outline and may be modified to suite your needs, you must ensure you cover the objectives.

The CSEMS Council has driver sets and bones available to check out for use during the practical aspect of your training program.

The procedure section of the CSEMS Council Prehospital Standard Patient Treatment Protocols has been modified to include the distal tibial insertion site for both adults and pediatrics.

If you have any questions, please contact me.

# EZ-IO® Product System Training

## Learning Objectives

1. Describe the “non-collapsible vein” principle as it relates to intraosseous use.
2. Identify landmarks critical to tibial and humeral placement of the EZ-IO in both adults and children.
3. List indications for EZ-IO insertion.
4. List contraindications for EZ-IO insertion.
5. Demonstrate the proper steps for EZ-IO insertion.
6. Discuss drugs and fluids acceptable for intraosseous use.
7. List possible complications of intraosseous use.
8. List steps needed to clean and disinfect the EZ-IO driver.
9. Discuss trouble shooting for the EZ-IO.
10. Demonstrate the proper steps for EZ-IO removal.

## Instructional Guide

- I. Overview
- II. Indications
- III. Contraindications
- IV. BSI
- V. Anatomy
  - a. Tibia – Proximal (Adult)
  - b. Tibia – Distal (Adult)
  - c. Humerus
  - d. Tibia – Proximal (Pediatric)
  - e. Tibia – Distal (Pediatric)
- VI. Cleaning insertion site
- VII. Insertion
- VIII. Confirmation and flushing
- IX. Complications and troubleshooting
- X. Medication administration and fluid administration
- XI. Removal
- XII. Care of equipment
- XIII. Demonstrate insertion
- XIV. Practice – Students practice insertion
  - a. Tibia – Proximal (Adult)
  - b. Tibia – Distal (Adult)
  - c. Humerus
  - d. Tibia – Proximal (Pediatric)
  - e. Tibia – Distal (Pediatric)
- XV. Conclusion

**Note:** Vidacare training material can be found at [www.vidacare.com](http://www.vidacare.com). The training material includes EZ-IO StarCast (on-line training), PowerPoint presentations, a training manual, posters and more.

**Note:** The EZ-IO StarCast (on-line training) may be completed by students prior to attending the training session, reducing the time needed to lecture on the use of the EZ-IO product system.