Skill Sheet
Intraosseous Infusion (F.A.S.T.1)

Objective: DEMONSTRATE the correct procedure for initiating an intraosseous infusion

References:
PHTLS (Military Version) Eighth Edition, Jones and Bartlett Learning

Evaluation: Students will be evaluated as a Pass/Fail (P/F). The instructor will verify the student's ability to initiate an IO infusion on an intraosseous therapy trainer by observing the student's procedure and technique.

Materials:
Student Checklists
F.A.S.T.-1 training set, Pyng #01-0044
SimIO accessories (10 pack), Pyng #01-0058
IV administration set
5cc syringe
NS, 250cc bag

Instructor Guidelines:
1. Provide each instructor with Student Checklists.
2. Ensure each student has all required materials.
3. Read the Learning Objective and the evaluation method to the students.
4. Explain the grading of the exercise.

Performance Steps:
1. Prepare and inspect equipment.
2. Explain the procedure to the casualty (if conscious) and ask about known allergies.
3. Locate a simulated suprasternal notch on the training device.
   - Note that on a real casualty, the site would probably be cleansed with at least an alcohol pad.
4. Place the target patch using index finger to ensure proper alignment with the simulated suprasternal notch on the training device.
5. Recheck the location of the target patch.
6. With the target patch securely attached to the training device, place the introducer (bone needle cluster) into the target zone of the target patch. Maintain perpendicular aspect of the introducer to the training device which simulates the casualty's sternum.
7. Apply firm, increasing pressure along the axis of the introducer until a distinct release is felt/heard
8. Gently remove the introducer by pulling straight back.
9. Verbalize the need to flush the bone plug by injecting 5ml of sterile IV fluid with the syringe.
10. Connect the infusion tube to the right angle connector on the target patch.
11. Verbalize placing the protective dome over the target patch.
12. Open the flow-regulator clamp and allow the fluid to run freely for several seconds (simulated).

13. Discontinue the infusion and disconnect the tubing from the infusion needle.
14. Pull straight out on the short connecting tube to remove the needle from the training device. (Removal would not generally be done in the field.)
15. Note that, if tactically feasible, the procedure would be documented on the appropriate medical form.

Initiate an Intravenous Infusion (F.A.S.T.1)

Task	Completed		
	1st	2nd	3rd
Prepared and inspected equipment.	P / F	P / F	P / F
Explained the procedure to the instructor, in lieu of a casualty, and mentioned the need to inquire about known allergies.	P / F	P / F	P / F
Specified a location on the training device to represent the suprasternal notch.	P / F	P / F	P / F
Placed the target patch using an index finger to ensure proper alignment with the pretend sternal notch on the training device.	P / F	P / F	P / F
Rechecked the location of the target patch.	P / F	P / F	P / F
Placed the introducer into the target zone of the target patch; maintained perpendicular aspect of the introducer to the training device's flat surface.	P / F	P / F	P / F
Applied firm, increasing pressure along the axis of the introducer until a distinct release was felt/heard.	P / F	P / F	P / F
WARNING: Extreme force, twisting or jabbing of the introducer must be avoided.			
Gently removed the introducer by pulling straight back.	P / F	P / F	P / F
Flushed the infusion tube with 5 ml of sterile saline to remove the bone plug.	P / F	P / F	P / F
Connected the infusion tube to the right angle connector on the target patch. Placed protective dome over target patch.	P / F	P / F	P / F
Opened the flow-regulator clamp and allowed the fluid to run freely for several seconds.	P / F	P / F	P / F
Removed the IV tubing and infusion needle.	P / F	P / F	P / F
Mentioned documentation of the procedure on the appropriate medical form.	P / F	P / F	P / F

Critical Criteria:

_____ Did not properly maintain perpendicular aspect of the F.A.S.T.1® introducer.

_____ Did not flush the bone plug with 5 cc of IV fluid.

_____ Violated aseptic technique.

_____ Performed the procedure in a manner that was dangerous to the casualty.

Evaluator's Comments:

Student Name: _____ Date: _____

Evaluator: _____ Pass: _____ Fail: _____