



**National Registry of Emergency Medical Technicians  
Advanced Level Psychomotor Examination**

**PEDIATRIC INTRAOSSEOUS INFUSION**

Candidate: \_\_\_\_\_ Examiner: \_\_\_\_\_

Date: \_\_\_\_\_ Signature: \_\_\_\_\_

**Actual Time Started:** \_\_\_\_\_

	<b>Possible Points</b>	<b>Points Awarded</b>
Checks selected IV fluid for: -Proper fluid (1 point) -Clarity (1 point) -Expiration date (1 point)	3	
Selects appropriate equipment to include: -IO needle (1 point) -Syringe (1 point) -Saline (1 point) -Extension set or 3-way stopcock (1 point)	4	
Selects proper administration set	1	
Connects administration set to bag	1	
Prepares administration set [fills drip chamber and flushes tubing]	1	
Prepares syringe and extension tubing or 3-way stopcock	1	
Cuts or tears tape [at any time before IO puncture]	1	
Takes or verbalizes appropriate PPE precautions [prior to IO puncture]	1	
Identifies proper anatomical site for IO puncture	1	
Cleanses site appropriately	1	
Performs IO puncture: -Stabilizes tibia without placing hand under puncture site and "cupping" leg (1 point) -Inserts needle at proper angle (1 point) -Advances needle with twisting motion until "pop" is felt or notices sudden lack of resistance (1 point) -Removes stylette (1 point)	4	
Disposes/verbalizes proper disposal of needle in proper container	1	
Attaches syringe and extension set to IO needle and aspirates; or attaches 3-way stopcock between administration set and IO needle and aspirates; or attaches extension set to IO needle [aspiration is not required for any of these as many IO sticks are "dry" sticks]	1	
Slowly injects saline to assure proper placement of needle	1	
Adjusts flow rate/bolus as appropriate	1	
Secures needle and supports with bulky dressing [tapes securely or verbalizes]	1	
<b>Actual Time Ended:</b> _____	<b>TOTAL</b>	24

**Critical Criteria**

- \_\_\_ Failure to establish a patent and properly adjusted IO line within 6 minute time limit
- \_\_\_ Failure to take or verbalize appropriate PPE precautions prior to performing IO puncture
- \_\_\_ Contaminates equipment or site without appropriately correcting the situation
- \_\_\_ Performs any improper technique resulting in the potential for air embolism
- \_\_\_ Failure to assure correct needle placement [must aspirate or watch closely for early signs of infiltration]
- \_\_\_ Failure to successfully establish IO infusion within 2 attempts during 6 minute time limit
- \_\_\_ Performs IO puncture in an unacceptable manner [improper site, incorrect needle angle, holds leg in palm and performs IO puncture directly above hand, etc.]
- \_\_\_ Failure to properly dispose/verbalize disposal of blood-contaminated sharps immediately in proper container at the point of use
- \_\_\_ Failure to manage the patient as a competent EMT
- \_\_\_ Exhibits unacceptable affect with patient or other personnel
- \_\_\_ Uses or orders a dangerous or inappropriate intervention

**You must factually document your rationale for checking any of the above critical items on the reverse side of this form.**