

**Idaho Bureau of Emergency Medical Services & Preparedness**  
**Emergency Medical Technician Psychomotor Examination**  
**Basic Life Support-Optional Module**



**Intraosseous Infusion**

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

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

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

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

|   | Possible Points | Points Awarded |
|---|-----------------|----------------|
| <b>Actual Time Started:</b> _____   |                 |                |
| Checks selected IV fluid for:<br>-Proper fluid (1 point)<br>-Clarity (1 point)<br>-Expiration date (1 point)  | 3               |                |
| Selects appropriate equipment to include:<br>-IO needle (1 point)<br>-Syringe (1 point)<br>-Saline (1 point)<br>-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 body substance isolation precautions [prior to IO puncture]   | 1               |                |
| Identifies proper anatomical site for IO puncture   | 1               |                |
| Cleanses site appropriately   | 1               |                |
| Performs IO puncture:<br>-Stabilizes tibia without placing hand under puncture site and "cupping" leg (1 point)<br>-Inserts needle at proper angle (1 point)<br>-Advances needle with twisting motion until "pop" is felt or notices sudden lack of resistance (1 point)<br>-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 body substance isolation 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 on the reverse side.**