

## INTRAOSSEOUS CANNULATION

CANDIDATE'S NAME:		DATE:
___ EMTI	___ EMTP	SCHOOL #:
___ INITIAL	___ RENEWAL	___ EQUIVALENCY
		___ RETEST
STATION TIME 5 MINUTES	START TIME:	END TIME:

- |   |   |     |   |
|---|---|-----|---|
| 0 | 2 | *1  | Avoids contamination of equipment   |
| 0 | 2 | 2   | Confirms order (solution and rate)  |
| 0 | 1 | 2   | *3 Select and prepare equipment   |
| 0 | 2 | *4  | Expose and stabilize lower extremity  |
| 0 | 2 | 5   | Locate and identify proximal tibia  |
| 0 | 2 | *6  | Cleanses skin with an alcohol/betadine prep using a circular motion working outward |
| 0 | 2 | 7   | Insert needle perpendicular to skin below the tibial tuberosity                     |
| 0 | 2 | *8  | Advances the needle until there is a decrease in resistance                         |
| 0 | 2 | *9  | Attach 10 mL syringe with normal saline and gently infuse                           |
| 0 | 2 | 10  | Confirm placement with absence of SQ swelling                                       |
| 0 | 2 | *11 | Connect tubing and verify flow  |
| 0 | 1 | 2   | *12 Secures device and tubing and dresses site                                      |
| 0 | 1 | 2   | *13 Adjusts drip rate as ordered (30 drops per minute)                              |
| 0 | 2 | *14 | Disposes of contaminated equipment  |
| 0 | 1 | 2   | 15 Labels site  |

___ Candidate's Total Points (Minimum passing total: 26 points)		
Absolutes satisfied: ___ Yes ___ No (Must have at least one point for each step marked with an *)		___ Pass ___ Fail
Examiner:	Cert. No. (if assigned):	

**Documenting Comments:**

# INTRAOSSUEOUS CANULATION ENHANCED CRITERIA

TIME ALLOWED FOR SKILL PERFORMANCE - 5 MINUTES

## PERFORMANCE OBJECTIVE

Given an infant IO manikin, and appropriate equipment, the candidate shall within the allotted station time, appropriately canulate the IO manikin.

## TESTING CONDITIONS

1. The examiner shall insure that the station is conducted as a testing station and **NOT** as a teaching station.
2. The station shall test only this skill and not be part of another skill or scenario.
3. Candidates shall be tested in private and one candidate at a time.

## STATION EQUIPMENT

1. Infant IO manikin
2. IO needle
3. 10cc syringe
4. Alcohol or betadine preps
5. IV Tubing
6. Tape
7. Roller gauze
8. Gloves and protective eyewear
9. Sharps container
10. Watch or clock with reading in seconds

## INSTRUCTIONS TO THE EXAMINER

1. The Course Coordinator, lead Instructor, and Examiner are responsible for insuring the presence of all necessary equipment and also for insuring that all equipment is in working order prior to beginning the test session.
2. This station may be tested in conjunction with I.V. Push.
3. The Examiner will **NOT** remove or hide equipment required to complete the skill.
4. Before the test session begins, the candidate shall be allowed to familiarize with the equipment. During this time the Examiner shall answer any questions the candidate has about the equipment.
5. Scenarios must **NOT** be used except as indicated by the criteria.
6. The Examiner shall prompt candidate **ONLY** as indicated by the criteria.
7. The Examiner, acting as Medical Control, shall instruct candidate to select an administration set, solution, and catheter of the Examiner's choice.
8. Use of betadine may be verbalized to preserve training model.

9. Once a test session has begun, it must be completed in no more than three (3) attempts.
10. Station time shall begin immediately after Examiner finishes examination instructions and informs candidate to begin.
11. The Examiner shall record starting and ending times in the appropriate section of the score sheet.
12. Station time shall **NOT** be restarted or extended for any reason.
13. If station time limit is exceeded, Examiner shall end the test, record skill as failure.
14. Sequence errors shall **NOT** be penalized unless specified by the grading criteria.
15. Additional steps not called for in criteria shall **NOT** be penalized as sequence errors.
16. Documentation by narrative is required on all steps awarded a "0" and on all skills failures.
17. Candidate shall **NOT** fail because of Examiner error.

## **GRADING CRITERIA**

- \*1. **Avoids contamination of equipment**  
 2 = Does not contaminate equipment  
 0 = Contaminates equipment
  
2. **Confirms order (solution and rate)**  
 2 = Performs step  
 0 = Omits any portion of step
  
- \*3 **Selects and prepares equipment including that ordered by Examiner**  
 Identifies and selects the following equipment:
  - a. administration set
  - b. constricting band
  - c. gauze, Band-Aid or commercial dressing
  - d. catheter over needle device (16, 18, 20, or 22 gauge)
  - e. alcohol/betadine prep
  - f. tape  
 2 = Performs above criteria  
 1 = Omits "b", "c", "e", or "f"  
 0 = Omits "a" or "d" or chooses inappropriate equipment
  
- \*4. **Expose and stabilize lower extremity.**  
 2 = Performs step.  
 0 = Omits step.
  
5. **Locates and identify proximal tibia.**  
 2 = Performs step  
 0 = Omits step
  
6. **Cleanses skin with an alcohol/betadine prep using a circular motion working outward**

2 = Performs above criteria  
1 = Cleanses skin with an alcohol/betadine prep in a manner other than above  
0 = Does not cleanse site

7. **Inset needle perpendicular to skin below the tibial tuberosity.**  
2 = Performs step.  
0 = Omits step
- \*8. **Advances the needle until there is a decrease in resistance.**  
2 = Performs step.  
0 = Omits step
9. **Attaches 10ml syringe with normal saline and gently infuses.**  
2 = Performs step  
0 = Omits step
10. **Confirms placement with absence of SQ swelling.**  
2 = Performs step  
0 = Omits step
- \*11. **Connects tubing and verify flow**  
2 = Performs step.  
0 = Omits step
- \*12. **Secures device and tubing and dresses site**  
a. Secures catheter and tubing  
b. Dresses site  
c. Does not cover medication port  
d. Maintains patent IV  
  
2 = Performs above criteria  
1 = Omits "b" or "c"  
0 = Omits "a" or "d"
- \*13. **Adjusts the drip rate as ordered (30 drops per minute)**  
2 = Performs step  
1 = Adjusts flow rate to 24 - 36 drops per minute  
0 = Adjusts flow rate to less than 24 or more than 36 drops per minute
- \*14. **Disposes of contaminated equipment**  
a. Disposes of contaminated equipment using sharps container  
b. Does not recap needle after use  
  
2 = Performs above criteria  
0 = Does not perform above criteria
15. **Labels site**  
a. Catheter size  
b. Date and time  
c. Initials

2 = Performs above criteria

1 = Omits "c"

0 = Omits "a" or "b"