

## SUBCUTANEOUS INJECTION

|   |       |             |
|---|-------|-------------|
| STATION TIME IS 5 MINUTES                         | DATE: | SCHOOL #:   |
| CANDIDATE'S NAME:                                 |       | START TIME: |
| __INITIAL COURSE __EQUIVALENCY __RENEWAL __RETEST |       | END TIME:   |

- |   |   |     |  |
|---|---|-----|--|
| 0 | 2 | *1  | Avoids contamination of equipment  |
| 0 | 2 | *2  | Confirms order (medication, dosage, and route)   |
| 0 | 1 | 2   | *3 Informs patient of order for medication and inquires about allergies                              |
| 0 | 2 | *4  | Selects correct medication from the drug box as requested by Examiner                                |
| 0 | 2 | *5  | Verbalizes check of medication for contamination and expiration date                                 |
| 0 | 2 | *6  | Prepares correct amount of medication for administration   |
| 0 | 2 | 7   | Expels air from syringe  |
| 0 | 2 | 8   | Verbalizes recheck of the medication label   |
| 0 | 2 | *9  | Selects appropriate site and identifies it by pointing to (touching) the site on self                |
| 0 | 2 | 10  | Verbalizes recheck of the medication label   |
| 0 | 1 | 2   | 11 Prepares the injection site   |
| 0 | 2 | *12 | Performs steps 1 - 11 prior to step 13 and performs at least one (1) recheck of the medication label |
| 0 | 1 | 2   | 13 Performs needle insertion   |
| 0 | 2 | *14 | Aspirates for absence of blood return  |
| 0 | 2 | *15 | Injects the medication   |
| 0 | 1 | 2   | 16 Withdraws needle and applies pressure   |
| 0 | 2 | *17 | Disposes of contaminated needle  |

|  |                          |
|--|--------------------------|
| __ Candidate's total Points (minimum passing total: 24 points)                                     |                          |
| Absolutes satisfied: __ Yes __ No<br>(Must have at least one point for each step marked with an *) | __ Pass<br>__ Fail       |
| Examiner:  | Cert. No. (If assigned): |

**Documenting Comments:**(use back of sheet)

# DRUG ADMINISTRATION CRITERIA

Intramuscular Injection, Subcutaneous Injection, I.V. Push, Endotracheal, and Piggyback

TIME ALLOWED FOR SKILL PERFORMANCE - 5 MINUTES PER SKILL

## PERFORMANCE OBJECTIVE

Given a training model, I.V. arm or I.V. hand, and an adult intubation mannequin or other appropriate equipment, the candidate shall, within the allotted station time, be able to recognize and select appropriate medication as per order, identify an appropriate site, and administer drug using the criteria herein prescribed.

## TESTING CONDITIONS

1. The Examiner shall insure that station is conducted as a testing station and **NOT** as a teaching session.
2. The station shall test only the skill of Drug Administration and shall **NOT** be conducted as a part of any other skill or scenario.
3. Candidates shall be tested in private and one candidate at a time.
4. Examiner shall require gloves to be in place before station time begins. Other protective barriers are recommended.

## STATION EQUIPMENT

1. Training model, I.V. arm or I.V. hand, or other equipment suitable for injection
2. Adult intubation mannequin or other equipment suitable for intubation
3. Drug box containing the following items:
  - a. At least three (3) drugs from local protocol in various types of containers (There must be at least one (1) drug suitable for each type of administration: intramuscular, subcutaneous, I.V. push, endotracheal, and piggyback.)
  - b. Several sizes of syringes/needles
  - c. Gauze pads/Band-Aids
  - d. Alcohol/betadine preps
  - e. Sharps Container
  - f. I.V. solutions as per local protocol
  - g. Primary I.V. tubing
  - h. Secondary I.V. tubing
  - i. Stopcock (optional)
  - j. I.V. catheter
  - k. I.V. stand
  - l. Endotracheal intubation tube
4. Bag valve mask
5. Gloves and protective eyewear
6. 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. The Examiner will **NOT** remove or hide equipment required to complete the skill.
3. 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.
4. Scenarios must **NOT** be used except as indicated by the criteria.
5. The Examiner shall prompt candidate **ONLY** as indicated by the criteria.
6. Examiner acting as medical control shall specify drug, dose (in cc's), syringe, and needle size appropriate for intramuscular injection, subcutaneous injection, I.V. push, endotracheal and piggyback.
7. Choose a drug which is contained in the drug box for the I.V. push segment. Instruct the candidate to select that drug, administer it, and set the drip rate to 30 drops per minute. (Rate is often a consideration in the administration of specific drugs. This station, however, is a test of psychomotor skills, not a test of the candidate's knowledge of specific drugs.)
8. Choose a drug which is contained in the drug box for the piggyback segment. Instruct the candidate to select that drug, add it to the secondary IV bag, connect it to the IV line, and set the drip rate to 30 drops per minute. (Rate is always a consideration in the piggyback administration of drugs. This station, however, is a test of psychomotor skills, not a test of the candidate's knowledge of specific drugs.)
9. Inform candidate I.V. is flowing at a rate of 30 drops per minute.
10. The use of betadine may be verbalized to protect the training model.
11. Examiner shall require candidate to identify by pointing to (touching) an appropriate site on his/her self for an intramuscular injection and a subcutaneous injection.
12. Actual injections will be given on appropriate equipment.
13. When questioned about allergies, Examiner shall state, "There are no allergies."
14. Once a test session has begun, it must be completed within the allotted station time. Restarts, if any, must take place before step 12 for intramuscular injection and before step 13 for subcutaneous injection.
15. Station time shall begin immediately after Examiner finishes examination instructions and informs candidate to begin.
16. The Examiner shall record starting and ending times in the appropriate section of the score sheet.
17. Station time shall **NOT** be restarted or extended for any reason.
18. If station time limit is exceeded, Examiner shall end the test, record skill as failure.
19. Sequence errors shall NOT be penalized unless specified by the grading criteria.
20. Additional steps not called for in criteria shall NOT be penalized as sequence errors.
21. Documentation by narrative is required on all steps awarded a "0" and on all skills failures.
22. Candidate shall NOT fail because of Examiner error.

### **SUBCUTANEOUS DRUG ADMINISTRATION GRADING CRITERIA**

- \*1. **Avoids contamination of equipment**  
2 = Does not contaminate equipment  
0 = Contaminates equipment

- \*2. **Confirms order (medication, dosage, and route)**  
 2 = Performs step  
 0 = Omits any portion of step
- \*3. **Informs patient of order for medication and inquires about allergies**  
 2 = Performs step  
 1 = Inquires about allergies but does not inform patient of order  
 0 = Does not inquire about allergies
- \*4. **Selects correct medication from the drug box as requested by Examiner**  
 2 = Performs step  
 0 = Omits step
- \*5. **Verbalizes check of medication for contamination and expiration date**  
 2 = Performs step  
 0 = Omits any portion of step
- \*6. **Prepares correct amount of medication for administration**  
 2 = Performs step  
 0 = Does not perform step
- 7. **Expels air from syringe**
  - a. Directs the needle upward
  - b. Depresses the syringe plunger until air has been ejected  
 2 = Performs above criteria  
 0 = Makes no attempt to remove the residual air  
**NOTE: Examiner shall inspect syringe before and after drug administration to insure correct dosage is given.**
- 8. **Verbalizes recheck of the medication label**  
 2 = Performs step  
 0 = Omits step
- \*9. **Selects appropriate site and identifies it by pointing to (touching) the site on self**  
 2 = Performs step  
 0 = Omits step or points out an inappropriate site
- 10. **Verbalizes recheck of the medication label**  
 2 = Performs step  
 0 = Omits step
- 11. **Prepares the injection site**
  - a. Cleanses the injection site with betadine or alcohol prep
  - b. Cleanses in a circular motion from the injection site outward  
 2 = Performs above criteria  
 1 = Cleanses skin in a manner other than stated above  
 0 = Fails to cleanse the injection site

\*12. **Performs steps 1 - 11 prior to step 13 and performs at least one (1) recheck of the medication label**

2 = Performs above criteria

0 = Does not perform above criteria

13. **Performs needle insertion**

a. Pinches skin between two fingers

b. Inserts needle using 45 degree angle (needle to skin)

c. Keeps bevel of needle up

2 = Performs above criteria

1 = Does not pinch the skin over the injection site, but inserts the needle bevel up and at a 45 degree angle

0 = Inserts needle at a 90 degree angle

\*14. **Aspirates for absence of blood return**

2 = Performs step

0 = Omits step

\*15. **Injects the medication**

2 = Injects the contents of the syringe

0 = Omits step

16. **Withdraws needle and applies pressure**

a. Removes the needle at the angle at which it was inserted

b. Applies direct pressure over the injection site with a sterile wipe

2 = Performs above criteria

1 = Fails to apply direct pressure over the injection site with a sterile wipe

0 = Removes the needle at an angle other than the angle at which it was inserted

\*17. **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