

## I.V. DRUG PUSH SKILL

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   | Selects medication port closest to the I.V. site   |
| 0 | 2 | 9   | Prepares the port for injection by cleansing with alcohol prep   |
| 0 | 2 | 10  | Verbalizes recheck of the medication label   |
| 0 | 2 | *11 | Performs steps 1 - 10 prior to step 12 and performs at least one (1) recheck of the medication label                   |
| 0 | 2 | 12  | Inserts the needle into the medication port/attaches syringe into stopcock   |
| 0 | 2 | *13 | Insures patency of IV line (Aspirates for blood return or verbalizes a check for infiltration and a check for IV flow) |
| 0 | 2 | *14 | Occludes flow above medication port  |
| 0 | 2 | 15  | Verbalizes recheck of medication label   |
| 0 | 2 | *16 | Injects the medication (see instruction to the Examiner)   |
| 0 | 1 | 2   | 17 Removes needle/syringe and flushes tubing   |
| 0 | 1 | 2   | *18 Adjusts the drip rate as ordered (See "INSTRUCTIONS TO THE EXAMINER #7")   |
| 0 | 2 | *19 | Disposes of contaminated equipment   |

___ Candidate's total Points (minimum passing total: 27 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:**(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.

#### **I.V. PUSH 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 above criteria
    - 0 = Selects incorrect medication
  
  - \*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**
    - a. Withdraws adequate amount of medication if not using a pre-filled syringe
    - b. If using pre-filled syringe, prepares syringe for administration
    - 2 = Performs above criteria
    - 0 = Does not perform above criteria
  
  - 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. **Selects medication port closest to the I.V. site**
    - 2 = Performs step
    - 0 = Chooses a site other than the one stated above
  
  - 9. **Prepares the port for injection by cleansing with alcohol prep**
    - 2 = Performs step
    - 0 = Omits step
  
  - 10. **Verbalizes recheck of the medication label**
    - 2 = Performs step
    - 0 = Omits step
  
  - \*11. **Performs steps 1 - 10 prior to step 12 and performs at least one (1) recheck of the medication label**
    - 2 = Performs above criteria

0 = Does not perform above criteria

12. **Inserts the needle into the medication port/ attaches syringe into stopcock**  
2 = Performs step  
0 = Omits step

- \*13. **Insures patency of IV line (Aspirates for blood return or verbalizes check for infiltration and a check for IV flow.)**  
**NOTE: Examiner will state "IV line is patent."**

2 = Performs step  
0 = Omits step

- \*14. **Occludes flow above medication port**  
2 = Performs step  
0 = Omits step

15. **Verbalizes recheck of the medication label**  
2 = Performs step  
0 = Omits step

- \*16. **Injects the medication (see instructions to the Examiner)**  
2 = Performs step  
0 = Omits step

17. **Removes needle/syringe and flushes tubing**  
2 = Performs step  
1 = Does not remove the needle/syringe  
0 = Does not flush tubing  
Omits step

- \*18. **Adjusts the drip rate as ordered (See "INSTRUCTIONS TO THE EXAMINER" #7)**  
2 = Performs step  
1 = Adjusts flow rate to within 27-33 drops per minute  
0 = Adjusts flow rate to less than 27 or more than 33 drops per minute

- \*19. **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