

PIGGYBACK DRUG ADMINISTRATION

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 Inquires about medication allergies |
| 0 | 2 | *4 | Selects correct medication and administration supplies from the drug box as requested by the 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 | Verbalizes recheck of the medication label |
| 0 | 2 | *8 | Injects medication into secondary IV bag and mixes solution |
| 0 | 2 | 9 | Labels medicated IV bag with name of drug and amount added |
| 0 | 2 | *10 | Connects IV tubing and needle to solution and expels air |
| 0 | 1 | 2 | *11 Insures patency of original IV line (Lowers original bag to observe blood return or verbalizes check for infiltration and checks for IV flow) |
| 0 | 1 | 2 | 12 Cleanses medication port |
| 0 | 1 | 2 | *13 Connects piggyback solution by inserting needle into medication port |
| 0 | 1 | 2 | 14 Verbalizes recheck of the medication label |
| 0 | 1 | 2 | *15 Performs steps 1 -14 prior to step 16 and performs at least one (1) recheck of the medication |
| 0 | 1 | 2 | *16 Begins infusion and adjusts the drip rate (See "INSTRUCTIONS TO THE EXAMINER" #8) |
| 0 | 1 | 2 | 17 Tapes needle securely |
| 0 | 1 | 2 | *18 Disposes of contaminated equipment |

__ Candidate's total Points (minimum passing total: 25 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:

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.

PIGGYBACK 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. **Inquires about medication allergies**
2 = Performs step
0 = Omits step
- *4. **Selects correct medication and administration supplies from the drug box as requested by the Examiner**
2 = Performs step
0 = Omits any portion of 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**
a. Withdraws adequate amount of medication if not using a pre-filled syringe
b. If using pre-filled syringe, prepares syringe for administration
c. Achieves a total volume of at least 10 ml
- 2 = Performs above criteria
1 = Fails to achieve a total volume of at least 10 ml
0 = Omits step
Does not prepare correct amount of medication
7. **Verbalizes recheck of the medication label**
2 = Performs step
0 = Omits step
- *8. **Injects medication into secondary IV bag and mixes solution**
a. Injects medication through injection port
b. Mixes solution in IV bag
- 2 = Performs step
0 = Omits step
9. **Labels medicated IV bag with name of drug and amount added**
2 = Performs step
0 = Omits step
- *10. **Connects IV tubing and needle to solution and expels air**
2 = Performs step
0 = Omits any portion of step
- *11. **Insures patency of original IV line (Lowers original bag to observe blood return or verbalizes check for infiltration and checks for IV flow)**
2 = Performs step

0 = Omits step

NOTE: Examiner will state "IV line is patent."

12. **Cleanses medication port**
2 = Performs step
0 = Omits step
- *13. **Connects piggyback solution by inserting needle into medication port**
2 = Performs step
0 = Omits step
14. **Verbalizes recheck of medication label**
2 = Performs step
0 = Omits step
- *15. **Performs steps 1 -14 prior to step 16 and performs at least one (1) recheck of the medication label**
2 = Performs as above
0 = Does not perform as above
- *16. **Begins infusion and adjusts the drip rate (See "INSTRUCTIONS TO THE EXAMINER" #8)**
2 = Performs step
0 = Omits step
17. **Tapes needle securely**
2 = Performs step
0 = Omits step
- *18. **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