Students' Name:..... ID:.....

Lab Activity Objectives:

By the end of this case discussion students should be able to:

- 1- Receive, identify, and confirm the necessary components of standing or verbal medication order.
- 2- Demonstrate the procedure of inserting intravenous (IV) catheter.
- 3- Demonstrate the proper procedure of medications given as IV bolus

Part-1: Procedures for IV Cannulation:

- IV insertion in the hand and wrist, and the forearm veins that traverse the antecubital fossa
- IV insertion in the external jugular vein

Teaching Methods:

- Educational videos
- Instructor demonstration
- Student demonstration (especially for IV insertion in the hand and wrist, and the forearm veins that traverse the antecubital fossa)

Part-2: Bolus Intravenous Administration Procedures:

Teaching Methods:

- Educational videos
- Instructor demonstration
- Student demonstration

Helpful Materials:





Student Activity-1: *Medication Administration as IV Bolus*

Hypothetical case scenario:

A 55-year old man fell down few minutes ago. You arrived to the scene while the victim was on the ground. You checked the pulse & breathing. There was no pulse & or breathing, and therefore, you started a CPR according to the basic life support that you took in school. The patient was still suffering from cardiac arrest. Thus, you checked the cardiac arrest algorithm" (see the last page) to select the right medication.

Selected Medication:

Medication name, dose, route, & frequency:

Evaluation of medication administration:

Evaluation of medication administration:

The student will be evaluated based on the rubric developed by *National Registry of Emergency Medical <u>Technicians, Inc.</u> (see next page)*

Instructor comments:



National Registry of Emergency Medical Technicians **Advanced Level Practical Examination**

INTRAVENOUS THERAPY

Candidate:Examiner:Examiner:		
Date:Signature:		
Level of Testing:	Possible	Points
Time Start:	Points	Awarded
Checks selected IV fluid for:		
-Proper fluid (1 point) Not applicable this week. Will be assessed next lab session		
Selects appropriate catheter	1	
Selects proper administration set	1	
Connects IV tubing to the IV bag		
Prepares administration set [fills drip chamber and flushes tubing]	1	
Cuts or tears tape [at any time before venipuncture]	1	
Takes/verbalizes body substance isolation precautions [prior to venipuncture]	1	
Applies tourniquet	1	
Palpates suitable vein	1	
Cleanses site appropriately	1	
Performs venipuncture		
-Inserts stylette (1 point)		
-Notes or verbalizes flashback (1 point)	5	
-Occludes vein proximal to catheter (1 point)	Ŭ	
-Removes stylette (1 point)		
-Connects IV tubing to catheter (1 point)		
Disposes/verbalizes disposal of needle in proper container	1	
Releases tourniquet	1	
Runs IV for a brief period to assure patent line	1	
Secures catheter [tapes securely or verbalizes]	1	
Adjusts flow rate as appropriate	1	
Time End: TOTAL	19	

CRITICAL CRITERIA

Time Charts

Failure to establish a patent and properly adjusted IV within 6 minute time limit

Failure to take or verbalize body substance isolation precautions prior to performing venipuncture

Contaminates equipment or site without appropriately correcting situation

Performs any improper technique resulting in the potential for uncontrolled hemorrhage, catheter shear, or air embolism Failure to successfully establish IV within 3 attempts during 6 minute time limit

Failure to dispose/verbalize disposal of needle in proper container

NOTE: Check here (_____) if candidate did not establish a patent IV and do not evaluate IV Bolus Medications.

INTRAVENOUS BOLUS MEDICATIONS

1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
13	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

CRITICAL CRITERIA

_ Failure to begin administration of medication within 3 minute time limit

Contaminates equipment or site without appropriately correcting situation

Failure to adequately dispel air resulting in potential for air embolism

Injects improper drug or dosage [wrong drug, incorrect amount, or pushes at inappropriate rate]

Failure to flush IV tubing after injecting medication

Recaps needle or failure to dispose/verbalize disposal of syringe and needle in proper container

You must factually document your rationale for checking any of the above critical items on the reverse side of this form.

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p309/8-003k

Cardiac Arrest Algorithm



Adult Advanced Cardiovascular Life Support

