



Emergency Medical Technician Psychomotor Examination

Epinephrine Administration

Attempt:

#1 _____

#2 _____

#3 _____

Candidate: _____

Examiner: _____

Date: _____

Signature: _____

	PASS / FAIL
GENERAL DISCUSSION	
What are the indications for use of Epinephrine?	
<input type="checkbox"/> Severe Asthma Attack <input type="checkbox"/> Anaphylaxis	
Are there any contraindications for the use of Epinephrine?	
States "No"	
State all possible actions of Epinephrine	
(Check actions stated by candidate) <input type="checkbox"/> Increased cardiac output <input type="checkbox"/> Relaxes smooth muscles of respiratory tract	
<input type="checkbox"/> Increases systolic BP <input type="checkbox"/> Causes vasoconstriction	
State at least 3 possible adverse effects of Epinephrine	
(Check actions stated by candidate) <input type="checkbox"/> Tachycardia <input type="checkbox"/> Hypertension <input type="checkbox"/> Chest Pain <input type="checkbox"/> Palpitations	
<input type="checkbox"/> Anxiety <input type="checkbox"/> Dizziness <input type="checkbox"/> Headache <input type="checkbox"/> Tremors	
<input type="checkbox"/> Seizures <input type="checkbox"/> Nausea / Vomiting <input type="checkbox"/> Ventricular Fibrillation	

AUTOINJECTOR:	
Selects appropriate autoinjector (Pediatric = 15-30 kg; Adult = >30 kg)	
What are the 6-rights for medication administration?	
Identifies 6-Rights (Patient, Medication, Time, Route, Dosage, Documentation)	
Explain DICCE	
Identifies DICCE (Drug, Integrity, Clarity, Concentration, Expiration Date)	
Identifies appropriate injection site	
Explains procedure to patient	
Holds autoinjector at 90° to injection site and in a dart like form, not touching either end	
Inserts autoinjector at injection site and holds for 2-10 seconds as per manufacturer recommendations	
Remove autoinjector and places in appropriate sharps container or otherwise makes needle safe	
Covers puncture site with an adhesive bandage, if possible	
Massages injection site for 1-2 minutes	
What is the desired effect to the patient?	
Increased blood pressure and decreased breathing difficulty	
What is the repeat dose and time interval, if any?	
Appropriate auto-injector 1 time in 5 minutes	

VIAL DRAW	
What is the appropriate size syringe and needle for administration?	
1 ml syringe with 25g needle	
What is the correct dose to administer?	
0.15 mg <30 kg or 0.30 mg => 30kg	
What is the correct concentration to administer?	
1.0mg/ml	
Assembles syringe and needle	
Draws appropriate volume of medication into syringe and dispels air (0.15 ml <30kg or 0.30 ml => 30kg)	
What are the 6-rights for medication administration?	
Identifies 6-Rights (Patient, Medication, Time, Route, Dosage, Documentation)	
Explain DICCE	
Identifies DICCE (Drug, Integrity, Clarity, Concentration, Expiration Date)	
Demonstrate appropriate IM injection	
Identifies and cleanses appropriate injection site	
Stretches skin, warns patient, and inserts needle at 90°angle while maintaining asepsis	
Removes needle from patient and disposes of syringe, needle, and vial in sharps container	
Applies direct pressure to site	
Covers puncture site with an adhesive bandage	
What is the desired effect to the patient?	
Increased blood pressure and decreased breathing difficulty	
What is the repeat dose and time interval, if any?	
0.15 mg <30 kg or 0.30 mg => 30kg 1 time in 5 minutes	

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

CANDIDATE MUST BE SUCCESSFUL IN ALL STEPS OF SELECTED METHOD OF DELIVERY IN ORDER TO PASS SKILL STATION

VCEMSA EMT Education Sub Committee – Rev 01/02/2025 Final

Performance Objectives

Demonstrate competency in recognizing the indications, contraindications, and criteria for administering epinephrine to a patient with anaphylaxis or severe asthma.

Equipment

- PPE (eye protection, masks, gown, gloves, etc.) Can use an image of PPE in place of actual items
- Adult or pediatric manikin and an IM injection pad
- Auto-injector (pediatric and adult)
- Multiple size syringes (1mL, 3mL, 5mL, 10mL)
- Multiple size needles (21g, 23g, 25g, 27g)
- Simulated Epinephrine vial
- Alcohol prep
- Sharps container

Key Concepts

- **Personal protective equipment**
 - Gloves, goggles
- **6 rights of medication administration**
 - All medication administration follows the 6 rights at all levels of medical care.
- **DICCE**
 - Only administer if the solution is clear and not expired.
 - Discolored solutions or the presence of particulates may indicate vial compromise or contamination
- **Appropriate Injection Sites**
 - Middle of the outer thigh
- **Auto-Injector**
 - May be administered through clothing
- **Vial Draw**
 - Only draw up the amount needed for the patient dosing. DO NOT draw up multiple doses at one time.
 - Draw up slightly more than a single dose. Expel any air and excess medication from the syringe/needle while advancing the plunger to the desired volume marker.
 - Pull back the plunger slightly to check for blood. If you see blood, you're in a vein—do not inject. If no blood appears, it's safe to proceed with the injection.