

Epinephrine Multi-Dose Vial Administration

OBJECTIVE: Demonstrate competency using a multi-dose vial containing epinephrine 1:1000 for the administration of subcutaneous epinephrine.

EQUIPMENT: Body substance isolation, multi-dose vial, container for contaminated material disposal.

PERFORMANCE CRITERIA AND CONDITIONS: Given an appropriate scenario, the candidate will assist a patient with a multi-dose vial in an allergic reaction emergency, following medical direction. All “critical criteria” must demonstrate 100% accuracy for acceptable performance.

Time limit: **4 minutes**

Event	Does	Does Not
1. Takes or verbalizes body substance isolation precautions.		
2. Inspect the medication to make sure it is not abnormally discolored or cloudy and that it does not contain precipitates.		
3. Check label and expiration date on vial.		
4. Select a syringe with a proper gauge needle. ➤ An average adult requires a 25 gauge needle.		
5. Wipe top of bottle with an alcohol swab.		
6. Remove cap on needle and draw air equal to epinephrine dose into syringe by pulling back on the plunger.		
7. Push needle through rubber-top vial.		
8. Push plunger in.		
9. Turn bottle and syringe upside down in hand. ➤ Hold bottle with one hand and use the other hand to pull back slowly on the plunger.		
10. Pull plunger back until the proper amount of epinephrine is in the syringe.		
11. Remove needle from bottle.		
12. Cover the needle properly with the needle sheath.		
13. Expel any air from the syringe.		
14. Clean site with an alcohol wipe.		
CONTINUED ON REVERSE SIDE		

Event	Does	Does Not
15. "Pinch-up" a large area of skin. ➤ Using a "darting action", insert needle into the subcutaneous tissue at a 45 degree angle.		
16. Aspirate by gently pulling back on the plunger.		
17. Push plunger all the way down.		
18. Release the "pinched" skin.		
19. Pull needle straight out. ➤ Wipe the site with a sterile 2x2 gauze if bleeding should occur, and place a sterile band aid over site.		
20. Record activity and time.		
21. Dispose of contaminated material in biohazard container.		

CRITICAL CRITERIA

- _____ Did not take or verbalize body substance isolation precautions
- _____ Did not check medication for cloudiness, discoloration or expiration date
- _____ Did not use an appropriate injection site
- _____ Did not administer medication properly
- _____ Did not discard needles or contaminated material in an appropriate container

