

Lesson Plan

Specific Topic Title: Basic EMT Epinephrine Study (BEES) Practical

Credit Category: Medical

Format: Practical

Time Duration: 1 hour

Credits: **MFR:** 0 **EMT:** 1 P **Specialist:** 1 P **Paramedic:** 1 P **I/C:** 0

Presenter: _____

Date: _____ **Time:** _____

CE Description: The purpose of this EMS continuing education (CE) session is for BEES participants to practice drawing up and administering epinephrine via intramuscular injection in place of an epinephrine auto-injector. Students must appropriately assess and treat the patients with an indication for epinephrine administration during simulated scenarios.

Rationale: Every licensed BLS unit in Michigan must carry injectable epinephrine for pediatric and adult patients. The Michigan Department of Health and Human Services (MDHHS) has approved a special study that allows participants to draw up and administer epinephrine via intramuscular injection in place of an epinephrine auto-injector. This EMS CE is necessary to assure that the study participants understand how to properly draw up and administer epinephrine via intramuscular injection when indicated.

Objectives: Given a scenario, students will complete the following:

- Correctly identify a patient that should be receiving epinephrine via intramuscular injection.
- Draw up epinephrine using the Epi-Kit contents.
- Administer simulated epinephrine (normal saline solution) to a simulated patient.
- Demonstrate how to correctly complete all necessary documentation and steps to exchange the Epi-Kit.

CE Outline:

1. **Introduction** (5 minutes)
 - a. List learning goals and objective to the students.
 - b. State safety considerations during training.
 - c. Describe the format of the practical skills that will be assessed during this CE session.
2. **Scenario #1 - Anaphylaxis** (15-20 minutes)
 - a. Given a scenario students will:
 - i. Manage ABCs
 - ii. Call for ALS as needed
 - iii. Identify patients that require epinephrine IM
 1. List and describe indications
 - iv. Administer epinephrine IM using simulated epinephrine (normal saline) into a simulated patient.

- v. Reassess the patient for desired effect
 - b. Post scenario, the instructor will list all correct and incorrect actions taken by the students. The instructor will provide strategies to eliminate incorrect actions made by the students.
 - 3. **Scenario #2 Asthma** (15-20 minutes)
 - a. Given a scenario students will:
 - i. Manage ABCs
 - ii. Call for ALS as needed
 - iii. Identify patients that require epinephrine IM
 - 1. List and describe indications
 - iv. Administer epinephrine IM using simulated epinephrine (normal saline) into a simulated patient.
 - v. Reassess the patient for desired effect
 - b. Post scenario, the instructor will list all correct and incorrect actions taken by the students. The instructor will provide strategies to eliminate incorrect actions made by the students.
 - 4. **Scenario #3 - Anaphylaxis or Asthma** (15-20 minutes)
 - a. Given a scenario students will:
 - i. Manage ABCs
 - ii. Call for ALS as needed
 - iii. Identify patients that require epinephrine IM
 - 1. List and describe indications
 - iv. Administer epinephrine IM using simulated epinephrine (normal saline) into a simulated patient.
 - v. Reassess the patient for desired effect
 - b. Post scenario, the instructor will list all correct and incorrect actions taken by the students. The instructor will provide strategies to eliminate incorrect actions made by the students.
 - 5. **Epi-Kit Exchange Procedure** (5 minutes)
 - a. Complete all necessary documentation and paperwork.