

Lesson Plan

Specific Topic Title: Basic EMT Epinephrine Study (BEES)

Credit Category: Medical

Format: Lecture

Time Duration: 1 hour

Credits: MFR: 0 EMT: 1 L Specialist: 1 L Paramedic: 1 L I/C: 0

Presenter: _____

Date: _____ **Time:** _____

CE Description: The purpose of this EMS continuing education (CE) session is to educate participants of BEES how to draw up and administer epinephrine from a vial in place of epinephrine auto-injectors. Indications for administration of intramuscular epinephrine will be detailed. This session will cover the administration of epinephrine by EMTs as allowed by the following protocols:

1. 1-23 Anaphylaxis/Allergic Reaction
2. 1-24 Respiratory Distress
3. 3-16 Pediatric Anaphylaxis – Allergic Reaction
4. 3-17 Pediatric Bronchospasm

Rationale: Every licensed BLS unit in Michigan must carry injectable epinephrine for pediatric and adult patients. The Michigan Department of Health and Human Services (MDHSS) has approved a special study that allows study 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: By the conclusion of this CE session, students will be able to:

- Understand the intent and purpose of BEES.
- List and describe indications for the administration of intramuscular (IM) epinephrine.
- Recall the adult and pediatric dosages of epinephrine when given IM and cite relevant protocols.
- List and describe the 5 rights of medication administration.
- Discuss techniques to minimize risk of needle stick injury.
- Describe relevant DEMCA Protocols and LSA SOPs in the event of an exposure.
- Describe the contents and use of the DEMCA Epi-Kit.
- Identify the BLS units that will carry the DEMCA Epi-Kit.
- Describe and demonstrate how to draw up epinephrine from a vial and administer via IM injection using the DEMCA Epi-Kit.
- Describe how to document epinephrine indications, effects, and administration.
- Describe and demonstrate how to complete a DEMCA Epi-Kit Exchange Form.
- Describe the LSA's procedure that assures a copy of the Patient Care Report (PCR) and a copy of the DEMCA Epi-Kit Exchange Form are submitted to DEMCA.

CE Outline:

- 1. Introduction**
 - a. Understand the intent and purpose of BEES.
- 2. Epinephrine review**
 - a. Describe the effects of epinephrine.
 - b. List and describe indications for the administration of intramuscular (IM) epinephrine.
 - c. Recall the adult and pediatric dosages of epinephrine when given IM and cite relevant protocols.
 - i. 1-4 Anaphylaxis/Allergic Reaction
 - ii. 1-15 Respiratory Distress
 - iii. 3-2 Pediatric Anaphylaxis – Allergic Reaction
 - iv. 3-4 Pediatric Bronchospasm
- 3. Considerations for medication administration**
 - a. List and describe the 5 rights of medication administration.
- 4. Needle stick safety**
 - a. Discuss techniques to minimize risk of needle stick injury.
 - b. Describe relevant DEMCA Protocols and LSA SOPs in the event of an exposure.
- 5. DEMCA Epi-Kit**
 - a. Describe the contents and use of the DEMCA Epi-Kit.
 - b. Identify the BLS units that will carry the DEMCA Epi-Kit.
- 6. Epinephrine administration via IM injection**
 - a. Describe and demonstrate how to draw up epinephrine from a vial and administer via IM injection using the DEMCA Epi-Kit.
- 7. Documentation**
 - a. Describe how to document epinephrine indications, effects, and administration.
- 8. DEMCA Epi-Kit exchange procedures.**
 - a. Describe and demonstrate how to complete a DEMCA Epi-Kit Exchange Form.
 - b. Describe the LSA's procedure that assures a copy of the Patient Care Report (PCR) and a copy of the DEMCA Epi-Kit Exchange Form are submitted to the DEMCA.