



## Lesson Plan: MFR & Basic EMT Epinephrine Study (MABEES)

<b>Topic:</b>	MFR & Basic EMT Epinephrine Study (MABEES)
<b>Specific Topic:</b>	Epinephrine Administration
<b>Presenter:</b>	West Michigan Regional Medical Consortium CE Sponsor Program
<b>Location:</b>	West Michigan Regional Medical Consortium CE Sponsor Locations
<b>Credit Category:</b>	Preparatory – 1 Credit Med Admin (MFR, EMT, SPEC, MEDIC) Special Considerations – 1 Credit Peds Med Admin Practical (AEMT, MEDIC) Special Considerations – 1 Credit (MFR, EMT)
<b>License Level:</b>	MFR, EMT, SPEC, MEDIC
<b>Credits:</b>	2
<b>Format:</b>	1 hour lecture, 1 hour practical
<b>CE Description:</b>	<p>The purpose of this EMS continuing education (CE) session is to educate participants of MABEES on how to draw up and administer Epinephrine from a vial. Indications for administration of intramuscular epinephrine will be detailed. This session will cover the administration of epinephrine by MFRs and EMTs as allowed by the following protocols:</p> <ol style="list-style-type: none"><li>1.6 Anaphylaxis/Allergic Reaction</li><li>3.3 Respiratory Distress</li><li>4.5 Pediatric Respiratory Distress</li><li>1.6a MFR &amp; Basic EMT Epinephrine Study – Addendum</li><li>8.40 MABEES Medication Kit Contents and Exchange Procedure</li></ol>

**Objectives:** At the conclusion of this CE session, the participants will be able to:

### Cognitive

1. Understand the intent and purpose of MABEES
2. List and describe indications for the administration of intramuscular (IM) epinephrine
3. Recall the adult and pediatric dosages of epinephrine when given IM and cite relevant protocols
4. List and describe 5 rights of medication administration
5. Discuss techniques to minimize risk of needle stick injury
6. Describe the contents and use of WMRMCC Epi-Kit
7. Describe how to document epinephrine indications, effects, and administration
8. Describe the procedure that assures each administration of epinephrine is reported to the MCA

### Psychomotor

1. Demonstrate how to draw up epinephrine from a vial and administer via IM injection using MABEES Epi-Kit to an adult and pediatric patient
2. Given a scenario, correctly identify a patient that should receive epinephrine via IM injection

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3. Administer simulated epinephrine (NaCl) to a simulated patient to an adult and pediatric patient

**Outline for Session**

1. Introduction
  - a. Understand the intent and purpose of MABEES
2. Epinephrine Overview
  - 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. Medication Administration Considerations
  - a. List and describe the 5 rights of medication administration
    - i. Right Patient
    - ii. Right Medication
    - iii. Right Dosage/Concentration
    - iv. Right Route
    - v. Right Documentation
4. Needle Stick Safety
  - a. Discuss techniques to minimize risk of needle stick injury
  - b. Describe relevant protocols and LSA policies in the event of an exposure
5. MABEES Epi-Kit
  - a. Describe the contents and use of the MABEES Epi-Kit
6. IM Injection of Epinephrine
  - a. Describe and demonstrate how to draw up epinephrine from a vial and administer via IM injection using MABEES Epi-Kit
7. Documentation
  - a. Describe how to document epinephrine indications, effects, and administration
8. MABEES Epi-Kit Exchange Procedure
9. Scenario #1 – Anaphylaxis (15-20 minutes)
  - a. Given a scenario students will:
    - a. Manage ABCs
    - b. Call for ALS as needed
    - c. Identify patients that require epinephrine IM
      - i. List and describe indications
    - d. Administer epinephrine IM using simulated epinephrine (normal saline) into a simulated patient
    - e. Reassess the patient for desired effect
  - b. Post scenario, the instructor will list all correct and incorrect actions taken by the students and provide strategies to eliminate incorrect actions

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10. Scenario #2 – Asthma (15-20 minutes)
  - a. Given a scenario students will:
    - a. Manage ABCs
    - b. Call for ALS as needed
    - c. Identify patients that require epinephrine IM
      - i. List and describe indications
    - d. Administer epinephrine IM using simulated epinephrine (normal saline) into a simulated patient
    - e. Reassess the patient for desired effect
  - b. Post scenario, the instructor will list all correct and incorrect actions taken by the students and provide strategies to eliminate incorrect actions
11. Scenario #3 – Anaphylaxis or Asthma (15-20 minutes)
  - a. Given a scenario students will:
    - a. Manage ABCs
    - b. Call for ALS as needed
    - c. Identify patients that require epinephrine IM
      - i. List and describe indications
    - d. Administer epinephrine IM using simulated epinephrine (normal saline) into a simulated patient
    - e. Reassess the patient for desired effect
  - b. Post scenario, the instructor will list all correct and incorrect actions taken by the students and provide strategies to eliminate incorrect actions
12. WMRMCC MABEES Epi-Kit Exchange Procedure
  - c. Complete all necessary documentation and paperwork

**Note: 2 of the 3 scenarios must be for a pediatric patient.**

**Student Evaluation Method:** Students will be formally evaluated on their ability to demonstrate drawing up correct dose and properly administering epinephrine IM for adult and pediatric patients. This will be recorded using a practical skills form designed for this presentation. Students will also be given a written test at the conclusion of the presentation.

**Evaluation of Presentation:** Continuing Education Program Sponsor Evaluation Form will be filled out by all participants.