



# Jackson Hole Fire/EMS Operations Manual

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Injection  
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## EPINEPHRINE 1:1,000 INTRAMUSCULAR INJECTION (Procedure Guidelines)

### SCOPE OF PRACTICE

EMS providers shall operate within their authorized Scope of Practice as limited to those skills and medications approved for use by the Physician Medical Director and Physician Task Force on Pre-Hospital Care as approved and authorized by the Wyoming Board of Medicine

**Scope of Practice:** EMT, IEMT, Paramedic

### CLINICAL INDICATIONS:

Anaphylaxis - characterized by an acute onset involving two or more of the following:

- Skin and/or mucosal involvement (urticaria, itchy, swollen tongue/lips)
- Respiratory compromise (dyspnea, wheeze, stridor, hypoxemia)
- Persistent gastrointestinal symptoms (vomiting, abdominal pain, diarrhea)
- Hypotension or associated symptoms (syncope, hypotonia, incontinence)

### CONTRAINDICATIONS:

- None in the emergency setting

### COMPLICATIONS/SIDE EFFECTS:

Tachycardia, palpitation, anxiety, tremor, headache, nausea, weakness, restlessness, hypertension.

### PROCEDURE:

1. Refer to PROTOCOLS: Epinephrine 1:1,000, Allergic Reaction/Anaphylaxis, and Respiratory Distress for indications, dosages, and detailed assessment.
2. Ask patient if they have any drug allergies
3. Confirm medication, concentration, expiration, dose, and clarity of liquid
4. (AMPULE) Tap ampule to get medicine down from top, break top off ampule with gauze 2x2 or an alcohol prep, place top in sharps container.
5. Draw up appropriate dose of epinephrine 1:1000 per protocol, using a filtered needle (AMPULE) or blunt fill cannula (VIAL).

6. Point syringe up, tap bubbles to the top, and expel all air. Re-check dose.
7. Remove filtered needle or blunt fill cannula and place in sharps container.
8. Place appropriate administration needle on syringe.
9. Inform the patient they will be receiving an injection; side effects may include feeling shaky or heart racing.
10. Select and cleanse area with alcohol or chloraprep wipe for injection. Primary sites include Deltoid (upper arm), Gluteal (upper buttock or hip site), or Vastus Lateralis (thigh) muscles.
11. Using one hand to stabilize skin, insert needle at 90 degrees into administration site and draw back checking for blood return. If there is blood return, discard the needle, and repeat procedure.
12. If there is no blood return, administer appropriate dose of epinephrine per protocol.
13. Remove needle from administration site and secure the sharp in sharps container.
14. Observe patient for improvement or deterioration. Repeat the exam and vitals after each dose.
15. Document procedure, vitals, and response to treatment
16. If an additional dose of is required, consult PROTOCOLS: Allergic Reaction/Anaphylaxis and Respiratory Distress.

