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Allergic Reactions (14 of 15) Allergic Reactions (15 of 15) · Signs and symptoms of allergic reaction: • Signs and symptoms of allergic reaction: - Cardiac - Signs and symptoms of shock Increased heart rate · Altered mental status Decreased blood pressure · Flushed, dry skin or pale, cool, clammy skin - Generalized findings Nausea or vomiting Itchy, watery eyes · Changes in vital signs Headache - Increased pulse and respirations - Decreased blood pressure Runny nose Sense of impending doom Pearson Pearson Copyright © 2021, 2016, 2012 Pearson Education, Inc. All Rights Reser Copyright © 2021, 2016, 2012 Pearson Education, Inc. All Rights Rese

Allergic Reactions—Distinguishing Anaphylaxis from Mild Allergic Reaction

- Any of previous signs and symptoms can be associated with an allergic reaction.
- To be anaphylaxis, the patient must have either respiratory distress or signs and symptoms of shock

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Allergic Reactions—Patient Assessment (1 of 2)

- Perform a primary assessment and care for any immediate life threats (ABCs)
- During the secondary assessment, inquire about:
 - History of allergies
 - What was the patient exposed to
 - How the patient was exposed (route of exposure)
 - Signs and symptoms
 - Progression
 - Interventions

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Allergic Reactions—Patient Assessment (2 of 2)

- Assess baseline vital signs and obtain the remainder of the past medical history
- · Suspect allergic reaction when:
 - The patient has come in contact with a substance that has caused a reaction in the past
 - The patient complains of itching, hives, or difficulty breathing
 - The patient shows signs or symptoms of shock

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Allergic Reactions—Patient Care (1 of 4)

- Manage the patient's airway and breathing
- Apply high-concentration oxygen if the patient is in distress or appears to be in anaphylaxis
- If the patient has or develops altered mental status, open and maintain the airway
- If the patient is not breathing, adequately provide artificial ventilations

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Allergic Reactions—Patient Care (2 of 4)

- Determine whether assisting the patient with an epinephrine auto-injector is appropriate
- Consult medical direction regarding use of auto-injector when the patient has come in contact with allergen and:
 - Has respiratory distress or signs of shock
 - Is not wheezing or showing signs of respiratory distress or shock
 - Complains of respiratory distress or shows signs of shock but does not have an auto-injector available

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Allergic Reactions—Patient Care (3 of 4)

- After using an auto-injector or administering epinephrine from the ambulance:
 - Record the administration of epinephrine
 - Transport the patient
 - Reassess after 2 minutes
- If the patient meets the criteria for epinephrine but you cannot carry and use it, call for an ALS intercept

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Self-Administered Epinephrine (1 of 7)

- As a medication, epinephrine constricts blood vessels and dilates bronchioles
- · It is often prescribed to patients with a history of allergy
- · Auto-injectors are carried or kept at home by patients
- Auto-injectors are spring-loaded needles and syringes with a single dose of epinephrine
- · They come in adult and child sizes

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Self-Administered Epinephrine (2 of 7)



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Self-Administered Epinephrine (5 of 7)

- Epinephrine may be dangerous for a patient with a heart condition or who is hypertensive
- Traditional thinking held that EMTs should only deliver epinephrine to patients with prescribed auto-injectors
 - This thinking has changed
 - Many systems now allow EMTs to carry and administer epinephrine in certain conditions
 - Follow local protocols

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Self-Administered Epinephrine (6 of 7)

- Patients with prescribed auto-injector may be uncomfortable or afraid to use it without help
 - In general, always inject directly through the clothing when assisting the patient
 - Check local protocols for variation to this general rule

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Self-Administered Epinephrine (7 of 7)

- Carefully monitor the patient's airway and breathing throughout care and transport
- If the patient's condition deteriorates, you may need to give additional doses
- This requires bringing the patient's additional auto-injectors in the ambulance

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 You must obtain permission from medical control for additional doses

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EMT-Administered Epinephrine Back to Topics

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<section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item> **EMT-Administered Epinephrine** (2 of 3) • Le Ready-Check-Inject method is commonly used: • Supplies are packaged in a single container with a review card • MT's must be trained in the use of the kit • MT's must demonstrate competency in the technique • The agency must maintain records of training

EMT-Administered Epinephrine (3 of 3)

• If your system uses Ready-Check-Inject, you must complete these steps in order to be authorized

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• You should also be familiar with your system's protocols, including the need to obtain on-line medical direction

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Chapter Review (3 of 4) • The signs and symptoms of anaphylaxis are a result of physiological changes: vasodilation, bronchoconstriction, leaky capillaries, and thick mucus.

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Remember (1 of 3)

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- In an allergic reaction, the body's immune system overreacts to an allergen and causes potentially harmful side effects.
- Anaphylaxis is a severe, systemic form of allergic reaction; it is a life-threatening emergency.

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Remember (2 of 3)

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Comparison (3 of 3)
Solution of a spotentially dangerous side effects and should be used only in the event of anaphylaxis.







Critical Thinking (2 of 2)

• His face is slightly red. His pulse is 88 strong and regular, respirations 24, blood pressure 108/74, and skin warm and moist. Should you administer epinephrine?

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