

Emergency Medicine Practice

Evidence-Based Education • Practical Application

CLINICAL CHALLENGES:

- Can the criteria, staging, and grading systems for allergic reactions determine treatment?
- What are the risk factors that can increase the chances for severe allergic reactions?
- What medications and adjunctive therapies are most helpful in treating allergic reactions?

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Information" on page 2.



Management of Allergic Reactions and Anaphylaxis in the Emergency Department

■ Abstract

An acute allergic reaction is a rapid-onset, IgE-mediated hypersensitivity reaction. Although it is most commonly caused by food, insect stings, and medications, there are many additional causes. Symptoms can range from mild urticaria and swelling, to abdominal cramping, to respiratory collapse. Anaphylaxis and anaphylactic shock are the most severe, life-threatening forms of allergic reaction, with fast onset and decompensation, requiring urgent airway monitoring and support. This issue reviews the current evidence on managing allergy and anaphylaxis with epinephrine, and reviews the evidence on corticosteroids, antihistamines, and other adjunctive therapies. Guidelines are reviewed to offer assistance with grading of symptoms, which can help determine treatment and disposition. Biphasic reactions and allergic reactions caused by alpha-gal, scombroid poisoning, and Kounis syndrome are also reviewed.



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