

Allergies. Types of Allergic Reactions. Anaphylaxis, Urticaria and Angioedema (Quincke's Edema) in Children

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Abstract: Allergic diseases represent one of the most common chronic health problems affecting children globally, with prevalence rates steadily increasing over the past few decades. This article provides an in-depth examination of IgE-mediated hypersensitivity reactions in the pediatric population, specifically focusing on three significant clinical manifestations: urticaria, angioedema, and anaphylaxis. We review the underlying immunopathology involving mast cell degranulation and histamine release. The clinical presentation, triggers, and management strategies for these conditions are detailed. Furthermore, the article analyzes global epidemiological trends, highlighting the rising burden of food allergies and anaphylaxis. It also briefly discusses the specific context of allergic disease management in developing regions, using Kyrgyzstan as a case study for the challenges in diagnostics and emergency preparedness in Central Asia. The review concludes by emphasizing the critical need for caregiver education and prompt access to epinephrine.

Keywords: Pediatrics, Allergy, Anaphylaxis, Urticaria, Angioedema, IgE-mediated reaction, Mast Cells, Epidemiology, Kyrgyzstan

