

Asthma: Pathogenesis

Genetic factors

(i.e. HLA gene mutations, defects in bronchial airway epithelium)

Environmental factors

(i.e. excess hygiene, fewer siblings, antibiotics within the first two years)

Atopy:

predisposition to allergic hyper-sensitivity in airways

First exposure to triggers* sensitizes helper T cells

Stimulation of B-cells to produce IgE, which binds to mast cell surfaces

Activated Helper-T cells & IgE-sensitized mast cells now line the airways

Second exposure to triggers

Early response (0-2 hrs)

Allergens cross-link IgEs on mast cells

Mast cells release histamines, leukotrienes, and other inflammatory mediators

Vascular permeability → edema of airway mucosa

Goblet cell hyperplasia → ↑ mucus secretion

Bronchial smooth muscle contraction

Airway obstruction

Delayed response (3-4 hrs)

Activated mast cells & helper T cells release cytokines

Induce maturation of granular WBCs like eosinophils

Eosinophils migrate into:

Airways

Eyes

Nose

Bronchiole constriction

Conjunctivitis

Rhinitis

Note: Delayed response presents within 3-4 hrs, peaks within 6-8 hrs, and resolves within 24 hrs

Asthma:

Defined as airway hyper-responsiveness causing variable and reversible airflow obstruction

Triggers of airway hyper-responsiveness include:

Upper respiratory tract infections (URTIs)

Allergens (pollen, animal dander, dust, mold, etc)

Air pollution, cigarette smoke, other chemicals

Drugs (aspirin, NSAIDs, Beta-blockers)

Cold air

Exercise

Asthma

Guide For Pathophysiology

Michael Rajnik



Guide For Pathophysiology:

Professional Guide to Pathophysiology, 2010-01-01 Professional Guide to Pathophysiology Third Edition combines the best of a diseases reference with the best of a full color atlas in one clinical reference for every practice setting This comprehensive guide focuses on the pathophysiologic developments behind more than 400 disorders across all body systems so the practitioner fully understands the pathophysiologic rationale behind focused assessments behind patient signs and symptoms behind the kinds of tests that are done and behind the treatments that are given Now in full color throughout the book features hundreds of illustrations depicting anatomical structures and pathophysiological processes as well as scores of informative tables and flowcharts P

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