

UNDERSTANDING IMMUNE SENSITIVITY



Allergies





Exaggerated Response

An exaggerated response of the immune system to certain harmless antigens present in the environment.

Environmental Antigens

The specific substances that provoke the immune response.

Mites in Dust

Pollens

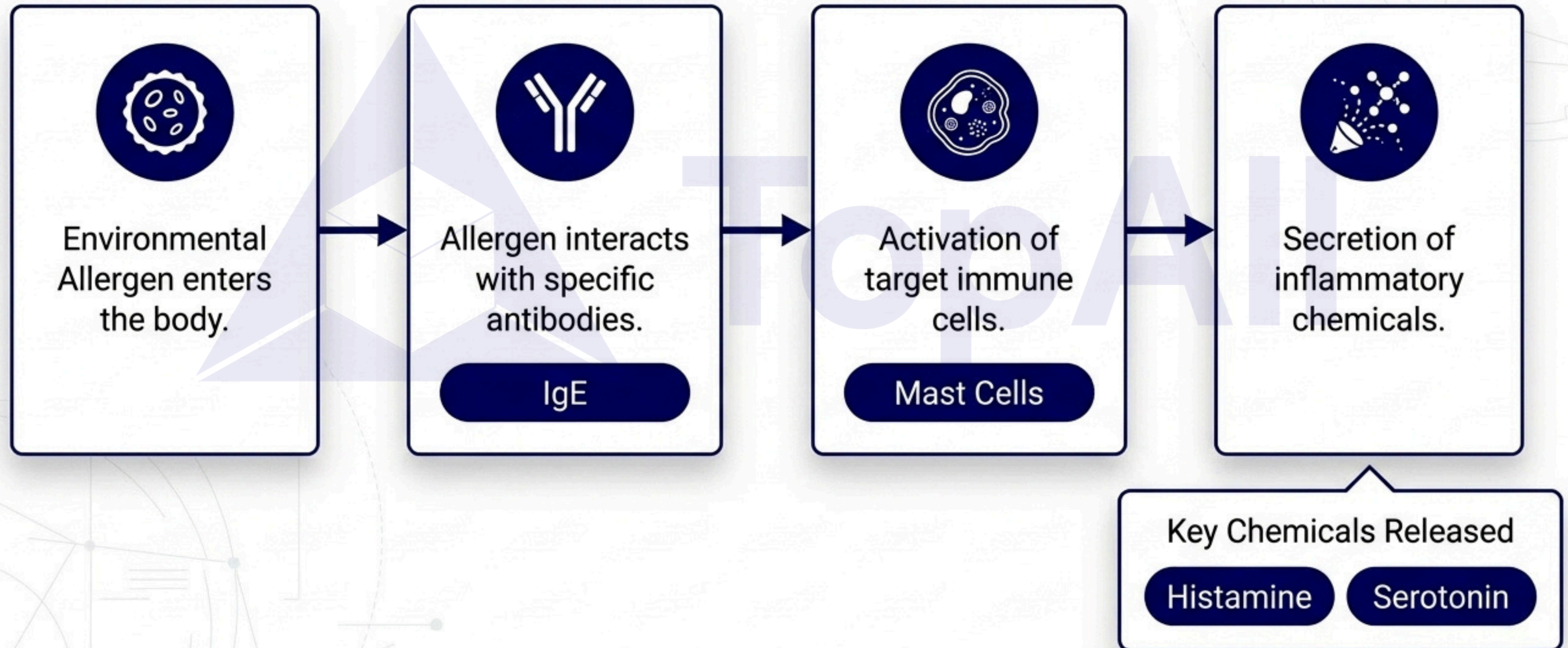
Animal Dander

IgE Production

The specific class of antibodies produced in response to allergens.

IgE Type

The Cellular Mechanism of Allergy





You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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- » Get Clear Explanations, Not Just Marks
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Physical Symptoms



Sneezing



Watery eyes



Running nose



Difficulty in breathing



The Modern Lifestyle Hypothesis

More children in Indian metro cities suffer from allergies and asthma due to heightened environmental sensitivity.

A highly protected environment early in life results in the lowering of overall immunity.

Diagnosis & Medical Management

Clinical Diagnosis: Identifying the Trigger

The patient is exposed to or injected with micro-doses of possible allergens.



Reactions are actively studied to pinpoint the exact allergen.

Pharmacological Treatment: Suppressing the Symptoms

Specific drugs are utilized to quickly reduce the symptoms of an allergic reaction.

Anti-histamines

Counters histamine release

Adrenalin

Rapid systemic response

Steroids

Reduces severe inflammation

High-Yield Review: Section 7.2.5

- ✓ The Nature of Allergy: An exaggerated immune response to harmless environmental antigens (pollens, mites, dander).
- ✓ The Primary Antibody: Mediated specifically by **IgE** class antibodies.
- ✓ The Cellular Culprit: Symptoms are driven by the release of **histamine** and **serotonin** from **mast cells**.
- ✓ The Environmental Factor: Modern, protected early-life environments contribute to lowered immunity and rising asthma rates.
- ✓ The Pharmacological Fix: Rapid symptom management relies on **anti-histamines**, **adrenalin**, and **steroids**.



You've Learned the Theory.

Now Let's Test It.

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