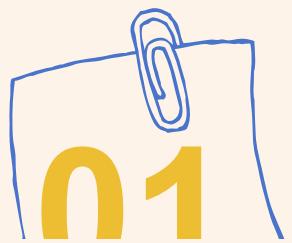


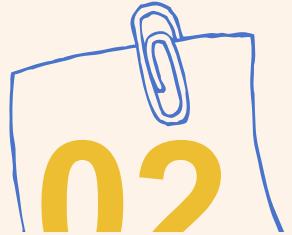
# High IgE: From Symptoms to Solutions

2025/08/05

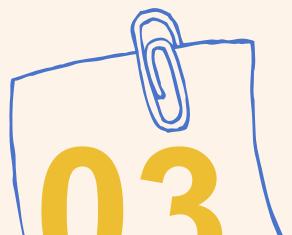




01  
Overview



02  
Symptoms



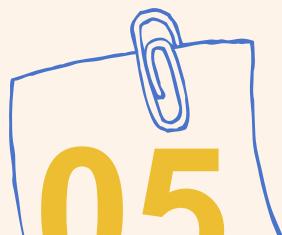
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# 01

## Overview



# What Elevated IgE Tells Us

IgE Level > 150 kU/L

Signals an over-reactive immune system

IgE is the antibody that triggers allergic reactions. Persistent elevation can herald common atopic disorders, occult parasitic infestation, rare primary immunodeficiencies, or even IgE myeloma. The finding always deserves **contextual interpretation** rather than dismissal.



Atopic Disorders



Parasitic Infestation



Immunodeficiencies



IgE Myeloma



# 02

## Symptoms



# Clinical Clues of High IgE

## Common Manifestations

-  Chronic eczema, hives, and itching
-  Sneezing, wheeze, and nasal congestion
-  Severe asthma symptoms

## Hyper-IgE Syndromes Red Flags

-  Recurrent staphylococcal skin abscesses
-  Pneumonia with lung cysts (pneumatoceles)
-  Mucocutaneous candidiasis, retained baby teeth
-  Scoliosis, minimal-trauma fractures
-  Surprisingly low fever despite aggressive infection



# 03

## Causes



# Root Drivers of IgE Rise

A funnel of causation from common to rare.

## Dominant Causes: Atopic Disorders

Allergic rhinitis, asthma, atopic dermatitis

## Infectious Triggers

Parasites (Ascaris, Strongyloides, Schistosoma), ABPA

## Underlying Conditions

Cystic fibrosis, Drug reactions, Kawasaki disease

## Rare & Genetic Causes

Wiskott-Aldrich, DOCK8/STAT3 deficiencies, IgE Myeloma

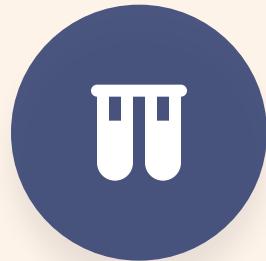


# 04

## Diagnosis



# Work-Up for Elevated IgE: A Systematic Approach



## 1. Confirm & Correlate

Total IgE level & Eosinophil count



## 2. Allergy Testing

Skin/RAST for inhalant & food allergens



## 3. Parasitic Workup

Stool O&P, specific helminth serologies



## 4. Advanced Studies

Chest imaging, Genetic panels (STAT3/DOCK8)

This systematic evaluation ensures **no treatable cause is missed**, guiding diagnosis from common allergies to rare genetic conditions.



# 05

## Treatment



# Evidence-Based Therapy Choices



## Treat the Cause

Antihistamines, steroids for allergy.  
Antiparasitics for helminths. Antifungals for ABPA. Prophylactic antibiotics for Hyper-IgE syndrome.



## Target IgE Directly

Anti-IgE biologic **Omalizumab** lowers free IgE, reducing asthma exacerbations and chronic urticaria effectively.



## Curative Option

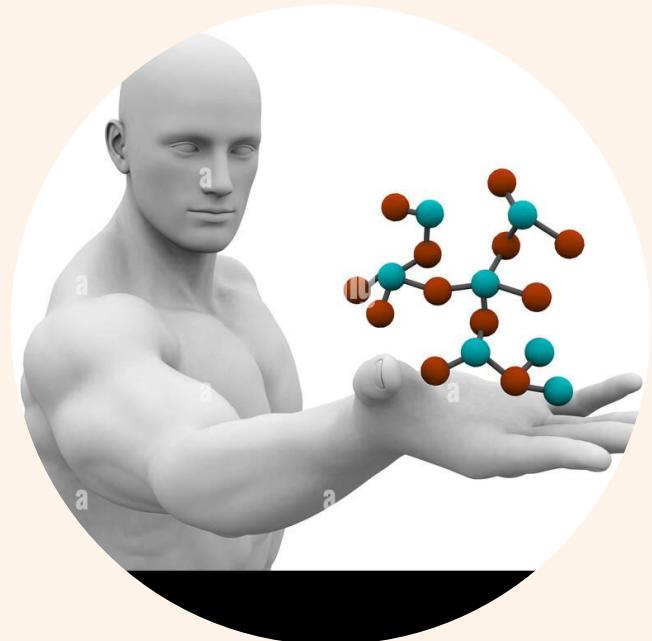
Hematopoietic stem cell transplant is the **curative approach** for specific genetic deficiencies like DOCK8 deficiency.



# 06

## Take-Home Points





# Clinical Priorities on High IgE



## Systematic Evaluation

Persistent elevation demands a thorough allergy, infectious, and immunologic workup to uncover the root cause.



## Recognize Red Flags

While most cases are atopy or parasites, signs like recurrent abscesses or pneumatoceles mandate **genetic testing**.



## Targeted Therapy is Key

From allergen avoidance to biologics, targeted intervention improves quality of life and prevents irreversible organ damage. **Early recognition is crucial.**



THANK YOU

*Thanks for Watching*

2025/08/05