PRIME PATH LAB

INHERITED **IMMUNITY DISORDERS** GENOMIC PANEL

Recognize the Pattern. Confirm the Cause.

Recurrent, severe, or unusual infections are the clue to an inborn error of immunity one of the most under-diagnosed conditions in medicine. This panel confirms the molecular cause and points to the treatment.

Why physicians order it

It ends the diagnostic odyssey

Patients wait years, across multiple specialists, before the righ diagnosis.

The defect dictates the therapy

Immunoglobulin replacement, targeted prophylaxis, stem-cell transplant, or precision drugs.

It catches the emergencies

SCID is a pediatric emergency early transplant transforms survival.

It's a family diagnosis

Confirms inheritance and enables cascade and carrier testing.

The pattern is the clue

Suspect an immune defect when infections are recurrent, severe, slow to clear, or need IV antibiotics. The three strongest predictors: a need for IV antibiotics, a family history of immunodeficiency, and recurrent ear infections. (Adapted from the Jeffrey Modell Foundation warning signs.)

Conditions on the panel

From antibody deficiency to severe combined immunodeficiency, the panel covers the full clinical range: common variable immunodeficiency (CVID), the agammaglobulinemias and hyper-IgM syndromes, chronic granulomatous disease, Wiskott-Aldrich and DiGeorge syndromes, SCID, autoimmune lymphoproliferative syndrome (ALPS), the autoimmune polyendocrinopathies, and activated PI3-kinase delta syndrome (APDS).

Who to test

- Two or more pneumonias, or four or more ear/sinus infections, in a year.
- Infections that need IV antibiotics, or recur the moment treatment stops.
- Deep abscesses, persistent thrush, or invasive fungal infection.
- Failure to thrive in an infant, or opportunistic and atypical organisms.
- Autoimmunity, cytopenias, or unexplained inflammation with a family history.
- A positive SCID newborn screen, or a known familial variant.

What the test detects

Full spectrum

NGS across antibody, combined, phagocyte, and immune-dysregulation disorders

Variant types

Pathogenic SNVs and small indels, with copy-number detection where applicable.

Reporting

ACMG/AMP classification;. Quick results and expedited for suspected SCID.

What sets this panel apart

Comprehensive & current

The full spectrum of inborn errors of immunity, aligned to the latest international classification.

Non invasive

A simple buccal swab no blood draw required.

Family ready

Supports cascade and carrier testing once a variant is found.

From result to action

A positive result

names the defect and unlocks targeted therapy, prophylaxis, or transplant planning.

A negative result

helps redirect the workup and reduces unnecessary empiric treatment.

Every result

enables presymptomatic and carrier testing across the family.

In immunology, time is tissue - an early molecular diagnosis prevents organ damage and directs precision care.

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