

4 Stages of Testing for Primary Immunodeficiency

- 1**
 - History and physical examination, height and weight
 - CBC and differential
 - Quantitative Immunoglobulin levels IgG, IgM, IgA (related to age)
- 2**
 - Specific antibody responses (tetanus, diphtheria)
 - Response to pneumococcal vaccine (pre/post) (for ages 3 and up)
 - IgG subclass analysis
- 3**
 - Candida and Tetanus skin tests
 - Lymphocyte surface markers CD3/CD4/CD8/CD19/CD16/CD56
 - Mononuclear lymphocyte proliferation studies (using mitogen and antigen stimulation)
 - Neutrophil oxidation burst (if indicated)
- 4**
 - Complement screening CH50, C3, C4
 - Enzyme measurements (adenosine deaminase, purine nucleoside phosphorylase)
 - Phagocyte studies (surface glycoproteins, mobility, phagocytosis)
 - NK cytotoxicity studies
 - Further complement studies AH50
 - Neo antigen to test antibody production
 - Other surface/cytoplasmic molecules
 - Cytokine receptor studies
 - Family/genetic studies

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BIOTHERAPEUTICS

These recommended immunologic tests reflect a consensus of the Jeffrey Modell Foundation Medical Advisory Board. Consultation with Primary Immunodeficiency experts is strongly suggested. © 2009 Jeffrey Modell Foundation
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