

PID Facilities in India

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Diagnostic facilities available

- **Nephelometry-based assays**
 - Serum Immunoglobulin estimation IgG, A, M
 - Serum Complement C3 and C4 estimation
 - Serum Ferritin (HLH)
- **Enzyme-linked immunosorbent based assays**
 - Serum IgE
 - Serum Cytokine levels
 - Antibodies to IFN-alpha (APCED syndrome)
 - sCD25 and sCD163 (HLH)
- **Flow-cytometry based assays**
 - Surface expression**
 - Lymphocyte subset analysis: T, B and NK
 - T cell subsets (CD4, CD8, CD45RA)
 - Double negative T cells (CD3, TCR $\alpha\beta$, CD4, CD8)
 - CD18, CD11a (LAD1)
 - CD132 (common γ chain SCID),
 - HLA DR (MHC class II deficiency, Omenn)
 - Intracellular antigens**
 - Btk expression on monocytes (XLA)
 - WAS protein on lymphocytes (Wiskott-Aldrich syndrome)
 - Perforin on NK cells and Cytotoxic T cells (HLH)
 - Th17 (AD-HIES, CMC)
 - TReg
- **Functional assay**
 - Dihydrorhodamine assay (DHR) (CGD)
 - CD40L expression on activated T cells (X-HIGM)
 - Phagocytosis and bactericidal assay (neutrophils)
- **Others:**
 - Serum Iso-haemagglutinin titres