

Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow
Department of Clinical Immunology and Rheumatology (Previously Called
Department of Clinical Immunology till 2018)

Ours is the first full-fledged teaching department setup in the country in the field of Clinical Immunology way back in 1987. We started the clinical services in late 1988. The first patient with PID was diagnosed in 1990 and the two sisters had leucocyte adhesion deficiency type I.

We have 7 faculty members, 12 DM students, 3 PhD students and 35 support staff members including nurses, technicians and research staff.

We offer DM (Clinical Immunology and Rheumatology) which is open to candidates with MD (Medicine) or MD(Pediatrics) since 1990.

The department has well equipped Immunology labs including facilities for cell culture, flow cytometry etc. The test being done for PI D include the following

Test	Sample needed	Method	Turn-around time	Cost
<i>Antibody deficiency disorders</i>				
IgG, IgM, IgA levels	2 ml serum	Nephelometry	1 day	500
IgE levels	1 ml serum	ELISA	4-7 days	Charges yet to be fixed
B cell number	1 ml EDTA	FACS	1 day	Charges yet to be fixed
B cell subset	1 ml EDTA	FACS	1 day	Charges yet to be fixed
Intracellular btk expression	1 ml EDTA	FACS	1 day	Charges yet to be fixed
Anti-salmonella antibodies	1 ml serum at 0 and 4 weeks post vaccination	ELISA		Charges yet to be fixed

<i>T cell deficiency disorders</i>				
T,B,NK cell frequency	1 ml EDTA	FACS	1 day	Charges yet to be fixed
CD4/CD8 count	1 ml EDTA	FACS	1 day	Charges yet to be fixed
Naive and memory T cells	1 ml EDTA	FACS	1 day	Charges yet to be fixed
Gamma chain expression	1 ml EDTA	FACS	1 day	Charges yet to be fixed
T cell proliferation assay	1 ml Heparin	FACS	7 days	Charges yet to be fixed
CD40L expression	1 ml EDTA	FACS	1 day	Charges yet to be fixed
WASP expression	1 ml EDTA	FACS	1 day	Charges yet to be fixed
Th17 frequency for HIGE syndrome	1 ml Heparin	FACS	1 day	Charges yet to be fixed
<i>Phagocyte disorders</i>				
CD 18 expression for LAD	1 ml EDTA	FACS	1 day	Charges yet to be fixed
NBT/DHR for CGD	1 ml EDTA	FACS	1 day	Charges yet to be fixed
<i>Hemophagocytic disorders</i>				
Perforin expression	1 ml EDTA	FACS	1 day	Charges yet to be fixed
SCD25	2 ml plain	ELISA	4 days	Charges yet to be fixed
S Ferritin	2 ml plain	Nephelometry	1 day	Charges yet to be fixed
<i>ALPS</i>				
Double negative T cells	1 ml EDTA	FACS	1 day	Charges yet to be fixed
<i>Mendelian Susceptibility to mycobacterial disease (MSMD)</i>				
IFNGR1	1 ml EDTA	FACS	1 day	Charges yet to be fixed
IFNGR2	1 ml EDTA	FACS	1 day	Charges yet to be fixed
IL-12RB1	1 ml heparin	FACS	7 days	Charges yet to be fixed
<i>Autoinflammatory disorders</i>				
Help with clinical and molecular diagnosis				

We regularly offer IVIG therapy to patients with PID who require it. We have BMT facility run by Department of Hematology in our institution, however they have not yet started BMT for PID.

Every week 2-3 consultations are received for PID and we diagnose about 20-25 new patients every year.

We have done a national level CME on PID in November 2013 which was attended by more than 100 participants. National meeting of ISPID is planned for 2020.