

IMMUNE DEFICIENCY PANEL 2; CD4 / CD8 PANEL

(Flow Cytometry)

PARAMETER	RESULT	UNITS	REFERENCE RANGE
Absolute Lymphocyte Count		/ uL	
T Lymphocytes			
CD3 (Total T cells)		%	
Absolute CD3		/uL	
CD4 (Helper T cells)		%	
Absolute CD4		/uL	
CD8 (Suppressor T cells)		%	
Absolute CD8		/uL	
CD4 / CD8		Ratio	

Note:

1. Test conducted on EDTA / Heparin whole blood.
2. There is a progressive increase in CD4 count throughout the day while CD8 and CD19 counts increase between 8.30 am to 12 noon.
3. Gating strategy is CD45 vs SSC

Clinical Use

- Monitoring T cell status of individuals
- Predicting prognosis, initiating & monitoring Antiviral therapy in HIV infected individuals
- Initiating Antimicrobial therapy against opportunistic infections in immunodeficient individuals

Absolute Lymphocyte Count	Age Group	Reference Range in /uL	Age Group (to be given to IT)
	0 to 17 years	660 - 4600	>= 0 < 18 years
	18 to 55 years	990 - 3150	>= 18 years < 55 years
	> 55 years	1000- 3330	>= 55 years
CD3 (T Cells) Percent	Age Group	Reference Range in %	
	0 - 2 months	53 - 84	>= 0 < 3 months
	3 - 5 months	51 - 77	>= 3 months < 6 months

	6 - 11 months	49 - 76	>= 6 months < 12 months
	12 months - 2 years	53 - 75	> =12 months < 2 years
	2 - 5 years	56 - 75	> =2 years <6 years
	6 - 11 years	60 - 76	> =6 years < 12 years
	12 - 17 years	56 - 84	>= 12 years < 18 years
	18 - 55 years	59 - 83	>=18 years < 55 years
	> 55 years	49 - 87	>= 55 years
Absolute CD3 (T Cells)	Age Group	Reference Range in /uL	
	0 - 2 months	2500 - 5500	>= 0 < 3 months
	3 - 5 months	2500 - 5600	>= 3 months < 6 months
	6 - 11 months	1900 - 5900	>= 6 months < 12 months
	12 months - 2 years	2100 - 6200	> =12 months < 2 years
	2 - 5 years	1400 - 3700	> =2 years <6 years
	6 - 11 years	1200 - 2600	> =6 years < 12 years
	12 - 17 years	1000 - 2200	>= 12 years < 18 years
	18 - 55 years	677 - 2383	>=18 years < 55 years
	> 55 years	617 - 2254	>= 55 years
CD4 (Helper T Cells) Percent	Age Group	Reference Range in %	
	0 - 2 months	35 to 64	>= 0 < 3 months
	3 - 5 months	35 to 56	>= 3 months < 6 months
	6 - 11 months	31 to 56	>= 6 months < 12 months
	12 months - 2 years	32 to 51	> =12 months < 2 years
	2 - 5 years	28 to 47	> =2 years <6 years
	6 - 11 years	31 to 47	> =6 years < 12 years
	12 - 17 years	31 to 52	>= 12 years < 18 years
	18 - 55 years	31 to 59	>=18 years < 55 years
	> 55 years	32 to 67	>= 55 years
Absolute CD4 (Helper T Cells)	Age Group	Reference Range in /uL	
	0 - 2 months	1600 - 4000	>= 0 < 3 months
	3 - 5 months	1800 - 4000	>= 3 months < 6 months
	6 - 11 months	1400 - 4300	>= 6 months < 12 months
	12 months - 2 years	1300 - 3400	> =12 months < 2 years

	2 - 5 years	700 - 2200	> =2 years <6 years
	6 - 11 years	650 - 1500	> =6 years < 12 years
	12 - 17 years	530 - 1300	>= 12 years < 18 years
	18 - 55 years	424 - 1509	>=18 years < 55 years
	> 55 years	430 - 1513	>= 55 years
CD8 (Suppressor T Cells)Percent	Age Group	Reference Range in %	
	0 - 2 months	12 to 28	>= 0 < 3 months
	3 - 5 months	12 to 23	>= 3 months < 6 months
	6 - 11 months	12 to 24	> =6 months < 12 months
	12 months - 2 years	14 to 30	> = 12 months < 2 years
	2 - 5 years	16 to 30	> =2 years < 6 years
	6 - 17 years	18 to 35	> = 6 years < 18 years
	18 - 55 years	12 to 38	>=18 years < 55 years
	> 55 years	8 to 40	>= 55 years
Absolute CD8 (Suppressor T Cells)	Age Group	Reference Range in /uL	
	0 - 2 months	560 - 1700	>= 0 < 3 months
	3 - 5 months	590 - 1600	>= 3 months < 6 months
	6 - 11 months	500 - 1700	>= 6 months < 12 months
	12 months - 2 years	620 - 2000	> =12 months < 2 years
	2 - 5 years	490 - 1300	> =2 years <6 years
	6 - 11 years	370 - 1100	> =6 years < 12 years
	12 - 17 years	330 - 920	>= 12 years < 18 years
	18 - 55 years	169 - 955	>=18 years < 55 years
	> 55 years	101 - 839	>= 55 years
CD4 / CD8 Ratio		> = 1.00	