

Patient	CD3	CD4	CD45RA+ CD4	CD45RA- CD62L+ CD4	CD45RA- CD62L- CD4	CD8	CD45RA+ CD8	CD45RA- CD62L+ CD8	CD45RA- CD62L- CD8	CD19	CD27+ B cells	CD16/56 NK	IgG	IgA	IgM	IgE	AEC	Treg	Lymphocyte Proliferation	
A-I	1914 (1000- 2200)	1159 (530- 1300)	961 (230- 770)	169 (162- 614)	28 (42- 225)	686 (330- 920)	642 (240- 710)	20 (25-180)	26 (24-175)	125 (110- 570)	11 (12-68)	115 (100- 480)	1019 (700- 1600)	304 (70- 400)	58 (40- 230)	15,600 (0- 90)	1240 (40- 540)	nml	Decreased: Anti-CD3 Normal: PHA, PWM	
B-I	2793 (1400- 3700)	1476 (700- 2200)	1111 (430- 1500)	347 (162- 614)	21 (42- 225)	946 (490- 1300)	850 (380- 1100)	62 (25-180)	31 (24-175)	399 (390- 1400)	62 (12-68)	237 (130- 720)	617* (500- 1250)	272 (25- 150)	16 (45- 175)	19,000 (0- 200)	1960 (30- 530)	nml	No defect	
B-II.2	1849 (714- 2266)	1098 (259- 1565)	678 (102- 1070)	325 (162- 614)	81 (42- 225)	594 (178- 853)	319 (96- 740)	77 (25-180)	84 (24-175)	303 (59- 329)	36 (12-68)	118 (126- 729)	1078 (700- 1600)	324 (70- 400)	57 (40- 230)	39.5 (0- 90)	80 (30- 530)	nml	Decreased: Anti-CD3	
C-I	1542 (1000- 2200)	995 (530- 1300)	766 (230- 770)	ND	ND	471 (330- 920)	363 (240- 710)	ND	ND	133 (110- 570)	17 (12-68)	64 (100- 480)	613 (700- 1600)	418 (70- 400)	34 (40- 230)	3008 (0- 90)	1445 (40- 540)	nml	Decreased: PHA, CONA, tetanus Normal: PWM	
C-II.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	nml	ND
D-I	6266 (1900- 5900)	2881 (1400- 4300)	3230 (1300- 3700)	ND	ND	2881 (500- 1700)	ND	ND	ND	443 (610- 2600)	ND	812 (160- 950)	548 (300- 1100)	136 (20- 75)	12 (40- 150)	30000 (0- 50)	14000 (30- 530)	nml	Decreased: PHA, anti-CD3	
D-II.1	1684 (714- 2266)	889 (259- 1565)	ND	ND	ND	725 (178- 853)	ND	ND	ND	94 (59- 329)	ND	444 (126- 729)	1430 (700- 1600)	472 (70- 400)	93 (40- 230)	128 (0- 90)	800 (30- 530)	nml	Decreased PHA, anti-CD3	
D-II.2	1835 (1000- 2200)	1066 (530- 1300)	ND	ND	ND	694 (330- 920)	ND	ND	ND	149 (110- 570)	120	421 (100- 480)	1580 (700- 1600)	572 (70- 400)	87 (40- 230)	1910 (0- 90)	800 (40- 540)	nml	Decreased: PHA, anti-CD3 Normal: PWM	

Supplementary Table 1. Summary of patient laboratory data. Cell counts in #/uL, (%). * indicates patients was receiving IVIg. For Treg column: nml indicates normal percentage of CD25+FoxP3+ within CD4 gate. PHA: phytohaemagglutinin. PWM: pokeweed mitogen. ND = not determined.