

Supplementary Table 1. Demographic and Paraclinical Findings of Patients

	Patient 1			Patient 2					
Age, y	9	10	10	16	20	30	33	33	34
WBC (4-10×10³/μL)	8050	7060	12,200	7400	5000	1950	2250	12,200	2900
% Neutrophil (50 70)	3950	3380	8052	3922	1800	20	67	9376	430
% Lymphocyte (20 40)	3050	2590	2318	3034	3100	1465	1912	3904	2060
% Monocyte (3 8)	940	900	1098	296	50	448	270	244	350
% Eosinophil (0.5 5)	100	180	366	198	50		-	366	30
RBC (3.5 5.5×10⁶/μL)	5.58	5.61	5.10			4.38	4.78	5.36	4.85
Hb (11 16 g/dL)	14.6	13.3	11	14.8	14.8	11.6	11.7	14.8	13.6
% HCT (37 50)	40.9	39.5	34.8	45.6	42.1	35.8	36.5	48	41.8
MCV (80 100 fL)	73.3	70.4	68.7			81.7	76.4	89.6	86.2
MCHC (32 36 g/dL)	35.7	33.7	31.6			32.4	32.1	27.6	28
Platelet (150 400×10³/μL)	345,000	541,000	421,000	153,000	158,000	325,000	337,000	131,000	129,000
ESR 1 h						61	22	26	
CRP		3+					66.5	36	

CRP: C-reactive protein; ESR: erythrocyte sedimentation rate; Hb: hemoglobin; HCT: hematocrit; MCHC: mean corpuscular hemoglobin concentration; MCV: mean corpuscular volume; RBC: red blood cell; WBC: white blood cell. The numbers in parentheses represent normal ranges.

Supplementary Table 2. Immunologic laboratory Findings of Patients

Patient 1			Patient 2		
	Age 9	Age 10	Age 33	Age 30	Age 34
Lymphocyte		2590	1912	1465	3904
% CD45 normal range (%) lymphocyte		100%	100%	100%	100%
% CD3 (50–80)		67%	87.2%	88.9%	88%
% CD4 (20 65)		28%	34.1%	32.7%	26%
% CD8 (10 40)		36%	43.5%	52%	60%
% CD19 (3 40)		14%	5.6%	3.3%	9%
% CD20 (3 40)		14%	5.2%	3.7%	9%
% CD21		NA			8%
% CD27		NA			52%
% CD16 (5 15)		12%	1.6%	5.3%	2%
% CD56		12%	2.6%	3.5%	2%
CH50		138	144		
IgG, mg/dL		2965	1119		
–					
IgA, mg/dL		236	247		
–					
IgM, mg/dL		65	89		
–					
IgE, IU/mL		4.1	11		
Anti–diphtheria Ab, IU/mL (>)	0.03	0.03	1.2		
Anti–tetanus Ab, IU/mL (>)	0.45	0.54	0.08		
BG/RH		O+	AB+		
Anti–A		1/64	–		
Anti–B		1/64	–		
NBT (90 100%)		100%	99%		
DHR		–			
% HLA–DR					29

* data is not available. Ab: antibody; BG: blood group; CD: cluster of differentiation; CH50: complement hemolytic 50; DHR: dihydrorhodamine; HLA-DR: human leukocyte antigen-DR isotype; Ig: immunoglobulin; NA: not available; NBT: nitroblue tetrazolium; RH: Rhesus factor.

Supplementary Table 3. CD markers of Patient 2 at 34 years of age

Marker	Percentage	Normal range
CD3 CD4	33%	
CD3 CD8	60%	
CD3 TCR $\alpha\beta$	90%	90–100%
CD3 TCR $\gamma\delta$	8%	1–10%
CD4 TCR $\alpha\beta$	99%	
CD4 TCR $\gamma\delta$	Negative	
CD3 TCR $\alpha\beta$ CD4 ⁺ CD8	1.9%	<2%
Lymphocyte count	2060	800–4000

TCR: T cell receptor.