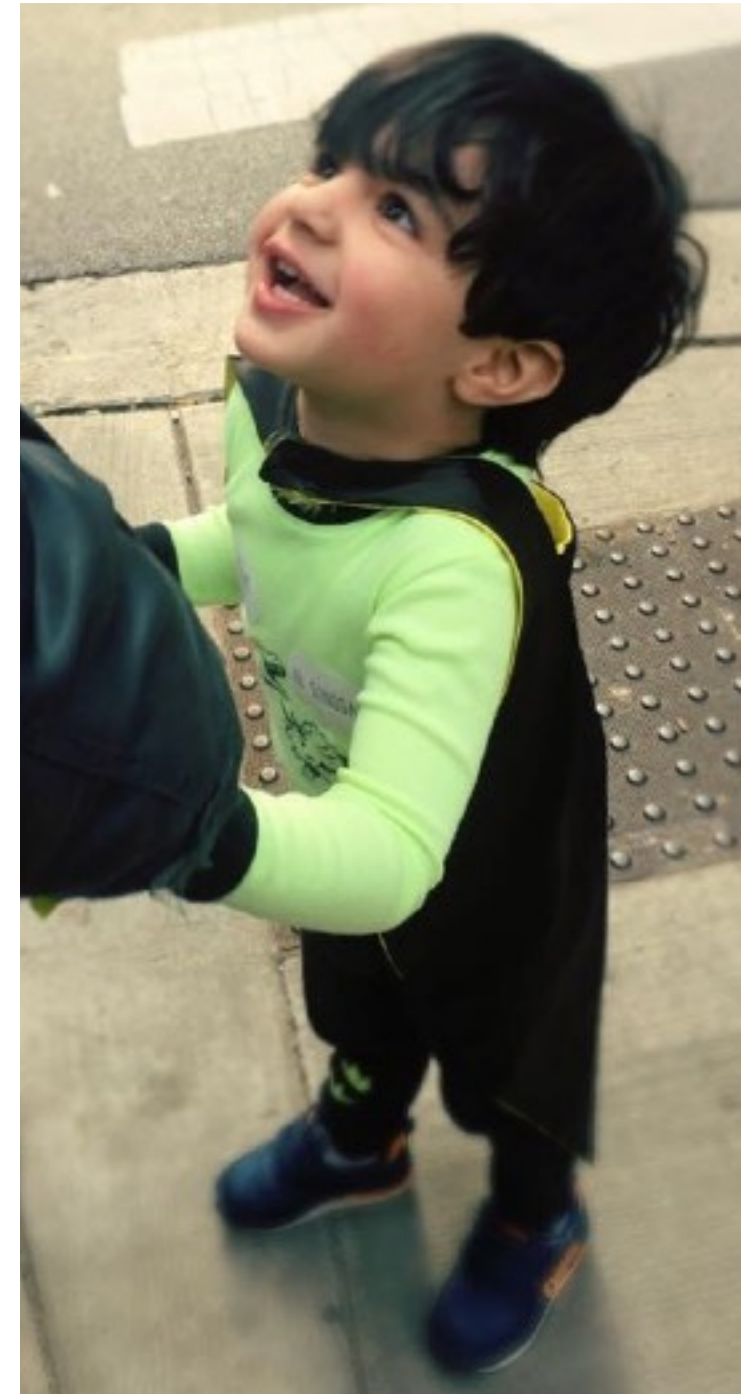


Why is PJ sick?

- An infection recurring in a single site is generally not indicative of a primary immunodeficiency disease, but rather it suggests an anatomic abnormality. On the other hand, several types of infections affecting various organ systems suggest PJ has an underlying immunologic deficiency.
- PJ has had difficulty fighting infections in his lower respiratory tract, central nervous system, and blood. He does not have a history of gastrointestinal or cutaneous infections. He has not had infections with unusual intracellular pathogens to suggest a T cell mediated or NK cell abnormality. His exam has some evidence of lymphocyte abnormalities.
- You suspect something is wrong with the PJ's B cells, with a probable defect in antibody production and/or function.
- Let's review some [types of immunodeficiencies](#) in this 5 minute video (Video 4 of 5), then proceed with the results



PJ, between infections, dressed up for Halloween

Lab Results

Complete Metabolic Profile (CMP)		
SODIUM, PLASMA OR SERUM	136 - 149 mEq/L	140
POTASSIUM, PLASMA OR SERUM	3.9 - 5.9 mEq/L	4.3
CHLORIDE, PLASMA OR SERUM	98 - 108 mEq/L	100
CARBON DIOXIDE (CO2), PLASMA OR SERUM	24.0 - 30.0 mEq/L	28.7
GLUCOSE, PLASMA	60 - 110 mg/dL	85
BLOOD UREA NITROGEN (BUN), PLASMA OR SERUM	5.0 - 18.0 MG/DL	14
CREATININE, PLASMA OR SERUM	0.35 - 1.24 mg/dL	0.76
CALCIUM, TOTAL, PLASMA OR SERUM	8.6 - 11.0 mg/dL	9.3
PROTEIN, TOTAL, PLASMA OR SERUM	6.4 - 8.3 g/dL	6.2 (L)
ALBUMIN, PLASMA OR SERUM	3.6 - 4.7 g/dL	4.4
BILIRUBIN, TOTAL, PLASMA OR SERUM	0.2 - 1.2 mg/dL	0.7
ALKALINE PHOSPHATASE, PLASMA OR SERUM	69 - 318 IU/L	76
ALANINE AMINOTRANSFERASE (ALT) (GPT), PLASMA OR SERUM	2 - 30 IU/L	17
ASPARTATE AMINOTRANSFERASE (AST)(GOT), PLASMA OR SERUM	18 - 57 IU/L	20

Complete Blood Count w/ Differential (CBC w/ Diff)					
WHITE BLOOD CELLS	4.5 - 11.0 thou/uL	4.76			
RED BLOOD CELL COUNT	4.00 - 5.20 mil/uL	4.58			
HEMOGLOBIN, BLOOD	12.0 - 16.0 g/dL	14.7			
HEMATOCRIT, BLOOD	36 - 46 %	44.7			
MCV	80 - 100 fL	97.4			
PLATELETS, BLOOD	150 - 450 thou/uL	179			
MEAN PLATELET VOLUME	7.4 - 10.4 fL	10.2			
NEUTROPHILS, ABSOLUTE	1.62 - 9.46 thou/uL	3.320	NEUTROPHILS	36 - 66 %	69.8 (H)
LYMPHOCYTES, ABSOLUTE	0.9 - 6.05 thou/uL	0.940	LYMPHOCYTES	20 - 55 %	19.7 (L)
MONOCYTES, ABSOLUTE	0.135 - 1.1 thou/uL	0.310	MONOCYTES	3 - 10 %	6.5
EOSINOPHILS, ABSOLUTE	0.0 - 0.66 thou/uL	0.140	EOSINOPHILS	0 - 6 %	3.0
BASOPHILS, ABSOLUTE	0.0 - 0.22 thou/uL	0.050	BASOPHILS	0 - 2 %	1.0