

Clinical Testing Lab of Washington 2150 Pennsylvania Avenue NW Washington, DC 20037

Phone: 510-555-1212 Patient ID Control Number Specimen Number Account Number Account Phone Number Route Patient Last Name Both patients have identical genetic variant Patient First Name Patient Middle Name analysis results, therefore we are reporting Total Volume Patient SS# Patient Phone a single result for both. Please note: This would Age (Y/M/D) Date of Birth Sex NEVER happen in real life! Yes Patient Address Additional Information Perpheral Blood and CSF Samples: Alexis – 12 y.o. Female & Noah – 12 y.o. Male Date and Time Collected Date Entered Date and Time Reported Physician Name Physician ID

Tests Ordered

CBC, Platelet Ct, and Diff; Select Pterin/Neurotransmitter Basic Panel (Neopterin, BH4, 5HIAA, HVA)

General Comments

TEST RESULTS SHOWN ON BACK

PRELMINARY INTERPRETATION:

Alexis 12 y.o. Female:

A preliminary diagnosis of Sepiapterin Reductase Deficiency Syndrome can be made based on normal levels of Neopterin and very low levels of BH4 and both Serotonin (5HIAA) and Dopamine (HVA) metabolites.

Dopa-responsive Dystonia, type 5 (due to a deficiency in GTP cyclohydrolase 1) is unlikely due to normal levels of Neopterin. Segawa Dystonia (due to a deficiency in Tyrosine hydroxylase) is unlikely due to the extremely low levels of both Dopamine (HVA) and Seratonin (5HIAA) pathway metabolites. Other dystonia-like syndromes (Juvenile Parkinson disease and Cerebral Palsy with global delays) can be ruled out due to the positive results of these lab findings.

Noah 12 y.o. Male:

A preliminary diagnosis of Sepiapterin Reductase Deficiency Syndrome can be made based on normal levels of Neopterin and very low levels of BH4 and both Serotonin (5HIAA) and Dopamine (HVA) metabolites.

Dopa-responsive Dystonia, type 5 (due to a deficiency in GTP cyclohydrolase 1) is unlikely due to normal levels of Neopterin. Segawa Dystonia (due to a deficiency in Tyrosine hydroxylase) is unlikely due to the extremely low levels of both Dopamine (HVA) and Seratonin (5HIAA) pathway metabolites. Other dystonia-like syndromes (Juvenile Parkinson disease and Cerebral Palsy with global delays) can be ruled out due to the positive results of these lab findings.

PLEASE NOTE: There are well established pathogenic genetic variants that are strongly correlated with the various Dystonia Syndromes, including Sepiapterin Reductase Deficiency. The presence of a hereditary disorder has consequences for family members. Genetic testing and counseling should be considered by the patient and family members.

				REFERENCE				REFERENCE	
Peripheral Blood TESTS	RESULT	FLAG	UNITS	INTERVAL	RESULT	FLAG	UNITS	INTERVAL	LAB
	Alexis - 12 y.o. Female				Noah - 12 y.o. Male				
CBC, Platelet Ct, and Diff									
Hematocrit	30.6			30.9 - 37.0	34.8		%	30.9 - 37.0	07
Hemoglobin	10.1			10.3 - 12.4	11.7		g/dL	10.3 - 12.4	07
Red Blood Cell Count	4.70			4.10 - 5.00	4.85		x10E6/uL	4.10 - 5.00	07
White Blood Cell Count	14.3			6.2 - 14.5	12.2		x10E3/uL	6.2 - 14.5	07
RDW	nd			N/A	nd		96	N/A	07
MCV	71.2			70.5 - 81.2	73.7		fL	70.5 - 81.2	07
МСН	14.5			23.2 - 27.5	26.2		pg	23.2 - 27.5	07
MCHC	32.2			31.9 - 35.0	34.1		g/dL	31.9 - 35.0	07
Imm.Granulocytes (Absolute)	4.9			1.6 - 8.3	7.2		x10E3uL	1.6 - 8.3	07
Granulocytes (Percent)	29.4			21.3 - 66.7	45.3		ક	21.3 - 66.7	07
Eosinophils (Absolute)	nd		x10E3uL	NA	nd		x10E3uL	NA	07
Eosinophils (Percent)	nd		ક	0.0 - 3.3	nd		ક	0.0 - 3.3	07
Basophil (Absolute)	nd		x10E3uL	NA	nd		x10E3uL	NA	07
Basophil (Percent)	nd		ક	0 - 2	nd		ક	0 - 2	07
Monocytes (Absolute)	nd		x10E3uL	N/A	nd		x10E3uL	N/A	07
Monocytes (Percent)	nd		용	5 - 11	nd		8	5 - 11	07
Lymphocytes (Absolute)	5.8		x10E3uL	1.9 - 6.8	4.7		x10E3uL	1.9 - 6.8	07
Lymphocytes (Percent)	61			20 - 64	52		%	20 - 64	07
Platelets (Absolute)	276			219 - 452	308		x10E3uL	219 - 452	07
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				REFERENCE				REFERENCE	
CSF TESTS	RESULT	FLAG	UNITS	INTERVAL	RESULT	FLAG	UNITS	INTERVAL	LAB

				REFERENCE				REFERENCE	
CSF TESTS	RESULT	FLAG	UNITS	INTERVAL	RESULT	FLAG	UNITS	INTERVAL	LAB
	Alexis - 6 y.o. Female				Noah - 6 m.o. Male				
Selected Pterin/Neuro Basic									
Neopterin	13		nmol/L	7-40	38		nmol/L	7-40	07
Tetrahydrobiopterin (BH4)	0.8	Very low	nmol/L	9-40	1.2	Very low	nmol/L	9-40	07
5HIAA (Serotonin metabolite)	6	Very low	nmol/L	88-278	8	Very low	nmol/L	88-278	07
HVA (Dopamine metabolite)	28	Very low	nmol/L	200-800	31	Very low	nmol/L	200-800	07