PATIENT INFORMATION

REPORT STATUS: FINAL

SPECIMEN INFORMATION

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REQUISITION:
LAB REF NO:

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Test Name	Result	Flag	Reference Range	Lab
LIPID PANEL				
CHOLESTEROL, TOTAL	257	HIGH	125-200 mg/dL	01
HDL CHOLESTEROL	44	LOW	> OR = 46 mg/dL	01
TRIGLYCERIDES	208	HIGH	<150 mg/dL	01
LDL-CHOLESTEROL	171	HIGH	<130 mg/dL (calc)	01
Desirable range <100 mg/dL for patients with CHD or diabetes and <70 mg/dL for diabetic patients with known heart disease.				
CHOL/HDLC RATIO	5.8	HIGH	< OR = 5.0 (calc)	01
NON HDL CHOLESTEROL	213	HIGH	mg/dL (calc)	01
Target for non-HDL cholesterol is 30 mg/dL higher than LDL cholesterol target.				
MAGNESIUM				
MAGNESIUM	1.9		1.5-2.5 mg/dL	01
PHOSPHATE (AS PHOSPHORUS)				
PHOSPHATE (AS PHOSPHORUS)	3.8		2.5-4.5 mg/dL	01
IRON AND TOTAL IRON BINDING CAPACITY				
IRON, TOTAL	102		45-160 mcg/dL	01
IRON BINDING CAPACITY	361		250-450 mcg/dL (calc)	01
% SATURATION	28		11-50 % (calc)	01
COMPREHENSIVE METABOLIC PANEL				
GLUCOSE	87		65-99 mg/dL	01
Fasting reference interval				
UREA NITROGEN (BUN)	16		7-25 mg/dL	01
CREATININE	0.76		0.50-0.99 mg/dL	01
For patients >49 years of age, the reference limit for Creatinine is approximately 13% higher for people identified as African-American.				
eGFR NON-AFR. AMERICAN	83		> OR = 60 mL/min/1.73m2	01
eGFR AFRICAN AMERICAN	96		> OR = 60 mL/min/1.73m2	01
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	01
SODIUM	140		135-146 mmol/L	01
POTASSIUM	4.3		3.5-5.3 mmol/L	01
CHLORIDE	104		98-110 mmol/L	01
CARBON DIOXIDE	30		20-31 mmol/L	01
CALCIUM	9.5		8.6-10.4 mg/dL	01
PROTEIN, TOTAL	6.6		6.1-8.1 g/dL	01
ALBUMIN	4.1		3.6-5.1 g/dL	01
GLOBULIN	2.5		1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	1.6		1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.3		0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	56		33-130 U/L	01
AST	19		10-35 U/L	01
ALT	24		6-29 U/L	01
ZINC				

ZINC	82		60-130 mcg/dL	02
CBC (INCLUDES DIFF/PLT)				
WHITE BLOOD CELL COUNT	5.2		3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	4.27		3.80-5.10 Million/uL	01
HEMOGLOBIN	12.5		11.7-15.5 g/dL	01
HEMATOCRIT	38.0		35.0-45.0 %	01
MCV	89.0		80.0-100.0 fL	01
MCH	29.4		27.0-33.0 pg	01
MCHC	33.0		32.0-36.0 g/dL	01
RDW	14.3		11.0-15.0 %	01
PLATELET COUNT	184		140-400 Thousand/uL	01
MPV	9.0		7.5-11.5 fL	01
ABSOLUTE NEUTROPHILS	2829		1500-7800 cells/uL	01
ABSOLUTE BAND NEUTROPHILS	DNR		0-750 cells/uL	01
ABSOLUTE METAMYELOCYTES	DNR		0 cells/uL	01
ABSOLUTE MYELOCYTES	DNR		0 cells/uL	01
ABSOLUTE PROMYELOCYTES	DNR		0 cells/uL	01
ABSOLUTE LYMPHOCYTES	1888		850-3900 cells/uL	01
ABSOLUTE MONOCYTES	270		200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	177		15-500 cells/uL	01
ABSOLUTE BASOPHILS	36		0-200 cells/uL	01
ABSOLUTE BLASTS	DNR		0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR		0 cells/uL	01
NEUTROPHILS	54.4		%	01
BAND NEUTROPHILS	DNR		%	01
METAMYELOCYTES	DNR		%	01
MYELOCYTES	DNR		%	01
PROMYELOCYTES	DNR		%	01
LYMPHOCYTES	36.3		%	01
REACTIVE LYMPHOCYTES	DNR		0-10 %	01
MONOCYTES	5.2		%	01
EOSINOPHILS	3.4		%	01
BASOPHILS	0.7		%	01
BLASTS	DNR		%	01
NUCLEATED RBC	DNR		0 /100 WBC	01
COMMENT(S)	DNR			01
QUESTASSURED 25-OH VIT D, (D2,D3), LC/MS/MS				
VITAMIN D, 25 OH, TOTAL	27	LOW	30-100 ng/mL	03
VITAMIN D, 25 OH, D3	27		ng/mL	03
VITAMIN D, 25 OH, D2	<4		ng/mL	03

25-OHD3 indicates both endogenous production and supplementation. 25-OHD2 is an indicator of exogenous sources such as diet or supplementation. Therapy is based on measurement of Total 25-OHD, with levels <20 ng/mL indicative of Vitamin D deficiency, while levels between 20 ng/mL and 30 ng/mL suggest insufficiency. Optimal levels are > or = 30 ng/mL.

THYROID PEROXIDASE ANTIBODIES				
THYROID PEROXIDASE ANTIBODIES	6		<9 IU/mL	04
HOMOCYSTEINE				
HOMOCYSTEINE	10.3		<10.4 umol/L	04

Homocysteine is increased by functional deficiency of folate or vitamin B12. Testing for methylmalonic acid differentiates between these deficiencies. Other causes of increased homocysteine include renal failure, folate antagonists such as methotrexate and phenytoin, and exposure to nitrous oxide.

T3, TOTAL				
T3, TOTAL	93		76-181 ng/dL	04
T4, FREE				
T4, FREE	1.3		0.8-1.8 ng/dL	01
T4 (THYROXINE), TOTAL				
T4 (THYROXINE), TOTAL	7.1		4.5-12.0 mcg/dL	01
FREE T4 INDEX (T7)	DNR		1.4-3.8	01

TSH				
TSH	4.61	HIGH	0.40-4.50 mIU/L	01
VITAMIN B12				
VITAMIN B12	805		200-1100 pg/mL	04
T3, FREE				
T3, FREE	2.5		2.3-4.2 pg/mL	04
HEMOGLOBIN A1c				
HEMOGLOBIN A1c	6.0	HIGH	<5.7 % of total Hgb	04

According to ADA guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes-2013. Diabetes Care. 2013;36:s11-s66

For the purpose of screening for the presence of diabetes

<5.7%	Consistent with the absence of diabetes
5.7-6.4%	Consistent with increased risk for diabetes (prediabetes)
>or=6.5%	Consistent with diabetes

This assay result is consistent with an increased risk of diabetes.

Currently, no consensus exists for use of hemoglobin A1c for diagnosis of diabetes for children.

Performing Laboratory Information:

Sample results. Actual results may vary.

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RED BLOOD CELL COUNT	5.24		4.20-5.80 Million/uL	BH
HEMOGLOBIN	16.6		13.2-17.1 g/dL	BH
HEMATOCRIT	49.7		38.5-50.0 %	BH
MCV	94.9		80.0-100.0 fL	BH
MCH	31.8		27.0-33.0 pg	BH
MCHC	33.5		32.0-36.0 g/dL	BH
RDW	12.3		11.0-15.0 %	BH
PLATELET COUNT	176		140-400 Thousand/uL	BH
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BAND NEUTROPHILS	DNR		%	BH
METAMYELOCYTES	DNR		%	BH
MYELOCYTES	DNR		%	BH
PROMYELOCYTES	DNR		%	BH
LYMPHOCYTES	39.8		%	BH
REACTIVE LYMPHOCYTES	DNR		0-10 %	BH
MONOCYTES	9.2		%	BH
EOSINOPHILS	1.4		%	BH
BASOPHILS	0.6		%	BH
BLASTS	DNR		%	BH
NUCLEATED RBC	DNR		0 /100 WBC	BH
COMMENT(S)	DNR			BH

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