PATIENT INFORMATION

REPORT STATUS: FINAL

SPECIMEN INFORMATION
SPECIMEN:
REQUISITION:
LAB REF NO:

COLLECTED:
RECEIVED:
REPORTED:

DOB:
AGE:
GENDER:
FASTING:

Clinical Info:

ORDERING PHYSICIAN

CLIENT INFORMATION

Test Name	Result	Flag	Reference Range	Lab
COMPREHENSIVE METABOLIC PANEL				
GLUCOSE	93		65-99 mg/dL	01
Fasting reference interval				
UREA NITROGEN (BUN)	11		7-25 mg/dL	01
CREATININE	0.84		0.50-1.10 mg/dL	01
eGFR NON-AFR. AMERICAN	85		> OR = 60 mL/min/1.73m2	01
eGFR AFRICAN AMERICAN	98		> OR = 60 mL/min/1.73m2	01
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	01
SODIUM	141		135-146 mmol/L	01
POTASSIUM	4.4		3.5-5.3 mmol/L	01
CHLORIDE	105		98-110 mmol/L	01
CARBON DIOXIDE	29		19-30 mmol/L	01
CALCIUM	9.0		8.6-10.2 mg/dL	01
PROTEIN, TOTAL	6.7		6.1-8.1 g/dL	01
ALBUMIN	4.3		3.6-5.1 g/dL	01
GLOBULIN	2.4		1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	1.8		1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.8		0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	82		33-115 U/L	01
AST	18		10-30 U/L	01
ALT	13		6-29 U/L	01
INSULIN, LC/MS/MS				
INSULIN, LC/MS/MS	7.0		<13.7 uIU/mL	02

Fasting insulin levels less than 7.6 microIU/mL are below the 75th percentile of the reference population. Insulin levels above the 75th percentile are associated with a higher risk of insulin resistance, diabetes and coronary heart disease. The reference range is based on the 95th percentile (observed) of a reference population of unmedicated adults in the fasting state with a glucose of <100 mg/dL. Insulin levels vary widely in specimens taken from non-fasting individuals. Interpret results accordingly.

References: 1. Lorenzo et al. The metabolic syndrome as predictor of type 2 diabetes: the San Antonio heart study. Diabetes Care. 2003;26:3153 2. Zavaroni et al. Hyperinsulinemia in a normal population as a predictor of non-insulin-dependent diabetes mellitus, hypertension, and coronary heart disease: the Barilla factory revisited. Metabolism. 1999;48:989-94

CBC (INCLUDES DIFF/PLT)				
WHITE BLOOD CELL COUNT	5.5		3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	4.66		3.80-5.10 Million/uL	01
HEMOGLOBIN	13.4		11.7-15.5 g/dL	01

HEMATOCRIT	40.8	35.0-45.0 %	01
MCV	87.6	80.0-100.0 fL	01
MCH	28.7	27.0-33.0 pg	01
MCHC	32.7	32.0-36.0 g/dL	01
RDW	13.7	11.0-15.0 %	01
PLATELET COUNT	257	140-400 Thousand/uL	01
MPV	DNR	7.5-11.5 fL	01
ABSOLUTE NEUTROPHILS	3350	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	1727	850-3900 cells/uL	01
ABSOLUTE MONOCYTES	275	200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	132	15-500 cells/uL	01
ABSOLUTE BASOPHILS	17	0-200 cells/uL	01
ABSOLUTE BLASTS	DNR	0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR	0 cells/uL	01
NEUTROPHILS	60.9	%	01
BAND NEUTROPHILS	DNR	%	01
METAMYELOCYTES	DNR	%	01
MYELOCYTES	DNR	%	01
PROMYELOCYTES	DNR	%	01
LYMPHOCYTES	31.4	%	01
REACTIVE LYMPHOCYTES	DNR	0-10 %	01
MONOCYTES	5.0	%	01
EOSINOPHILS	2.4	%	01
BASOPHILS	0.3	%	01
BLASTS	DNR	%	01
NUCLEATED RBC	DNR	0 /100 WBC	01
COMMENT(S)	DNR		01

CORTISOL, TOTAL

CORTISOL, TOTAL	8.4	mcg/dL	01

Reference Range: For 8 a.m.(7-9 a.m.) Specimen: 4.0-22.0
Reference Range: For 4 p.m.(3-5 p.m.) Specimen: 3.0-17.0
* Please interpret above results accordingly *

DHEA SULFATE

DHEA SULFATE	164	19-231 mcg/dL	01

DHEA-S values fall with advancing age.
For reference, the reference intervals for 31-40 year old patients are:

Male: 106-464 mcg/dL
Female: 23-266 mcg/dL

TSH

TSH	2.49	mIU/L	01

Reference Range

> or = 20 Years 0.40-4.50

Pregnancy Ranges

First trimester	0.26-2.66
Second trimester	0.55-2.73
Third trimester	0.43-2.91

VITAMIN B12

VITAMIN B12	584	200-1100 pg/mL	01

ESTRADIOL

ESTRADIOL	37	pg/mL	01

Reference Range

Follicular Phase:	19-144
Mid-Cycle:	64-357
Luteal Phase:	56-214

Post-Menopausal: < or = 31

Reference range established on post-pubertal patient population. No pre-pubertal reference range established using this assay. For any patients for whom low Estradiol levels are anticipated (e.g. males, pre-pubertal children and hypogonadal/post-menopausal females)

SEX HORMONE BINDING GLOBULIN

SEX HORMONE BINDING GLOBULIN	33		17-124 nmol/L	01

QUESTASSURED 25-OH VIT D, (D2,D3), LC/MS/MS

VITAMIN D, 25-OH, TOTAL	44		30-100 ng/mL	01

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.

VITAMIN D, 25-OH, D3	44		See Note: ng/mL	01

Reference Range:

Reference Range
Not established

VITAMIN D, 25-OH, D2	<4		See Note: ng/mL	01

Reference Range:

Reference Range
Not established

HEMOGLOBIN A1c

HEMOGLOBIN A1c	5.7	HIGH	<5.7 % of total Hgb	01

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.

TESTOSTERONE,FR(DIALYSIS) AND TOTAL(LC/MS/MS)

TESTOSTERONE, TOTAL, LC/MS/MS	8		2-45 ng/dL	03
FREE TESTOSTERONE	1.3		0.1-6.4 pg/mL	03

Performing Laboratory Information: