

# Sample results. Actual results may vary.

PATIENT INFORMATION

REPORT STATUS: FINAL

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SPECIMEN INFORMATION

SPECIMEN:  
REQUISITION:  
LAB REF NO:

DOB:  
AGE:  
GENDER:  
FASTING:  
  
Clinical Info:

COLLECTED:  
RECEIVED:  
REPORTED:

Test Name	Result	Flag	Reference Range	Lab
<b>LIPID PANEL</b>				
CHOLESTEROL, TOTAL	263	HIGH	125-200 mg/dL	01
HDL CHOLESTEROL	86		> OR = 46 mg/dL	01
TRIGLYCERIDES	73		<150 mg/dL	01
LDL-CHOLESTEROL	162	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/HDL C RATIO	3.1		< OR = 5.0 (calc)	01
NON HDL CHOLESTEROL	177	HIGH	mg/dL (calc)	01
Target for non-HDL cholesterol is 30 mg/dL higher than LDL cholesterol target.				
<b>IRON AND TOTAL IRON BINDING CAPACITY</b>				
IRON, TOTAL	68		40-175 mcg/dL	01
IRON BINDING CAPACITY	371		250-450 mcg/dL	01
% SATURATION	18		15-50 % (calc)	01
<b>COMPREHENSIVE METABOLIC PANEL</b>				
GLUCOSE	98		65-99 mg/dL	01
Fasting reference interval				
UREA NITROGEN (BUN)	11		7-25 mg/dL	01
CREATININE	0.56		0.50-1.10 mg/dL	01
eGFR NON-AFR. AMERICAN	113		> OR = 60 mL/min/1.73m <sup>2</sup>	01
eGFR AFRICAN AMERICAN	131		> OR = 60 mL/min/1.73m <sup>2</sup>	01
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	01
SODIUM	137		135-146 mmol/L	01
POTASSIUM	4.0		3.5-5.3 mmol/L	01
CHLORIDE	103		98-110 mmol/L	01
CARBON DIOXIDE	21		19-30 mmol/L	01
CALCIUM	9.3		8.6-10.2 mg/dL	01
PROTEIN, TOTAL	7.4		6.1-8.1 g/dL	01
ALBUMIN	4.5		3.6-5.1 g/dL	01
GLOBULIN	2.9		1.9-3.7 g/dL (calc)	01
ALBUMIN/GLOBULIN RATIO	1.6		1.0-2.5 (calc)	01
BILIRUBIN, TOTAL	0.5		0.2-1.2 mg/dL	01
ALKALINE PHOSPHATASE	40		33-115 U/L	01
AST	13		10-35 U/L	01
ALT	10		6-29 U/L	01
<b>CBC (INCLUDES DIFF/PLT)</b>				
WHITE BLOOD CELL COUNT	6.9		3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	3.83		3.80-5.10 Million/uL	01
HEMOGLOBIN	12.9		11.7-15.5 g/dL	01
HEMATOCRIT	38.5		35.0-45.0 %	01
MCV	100.5	HIGH	80.0-100.0 fL	01
MCH	33.7	HIGH	27.0-33.0 pg	01
MCHC	33.5		32.0-36.0 g/dL	01
RDW	14.2		11.0-15.0 %	01
PLATELET COUNT	234		140-400 Thousand/uL	01

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MPV	10.3	7.5-11.5 fL	01
ABSOLUTE NEUTROPHILS	4906	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	1566	850-3900 cells/uL	01
ABSOLUTE MONOCYTES	228	200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	173	15-500 cells/uL	01
ABSOLUTE BASOPHILS	28	0-200 cells/uL	01
ABSOLUTE BLASTS	DNR	0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR	0 cells/uL	01
NEUTROPHILS	71.1	%	01
BAND NEUTROPHILS	DNR	%	01
METAMYELOCYTES	DNR	%	01
MYELOCYTES	DNR	%	01
PROMYELOCYTES	DNR	%	01
LYMPHOCYTES	22.7	%	01
REACTIVE LYMPHOCYTES	DNR	0-10 %	01
MONOCYTES	3.3	%	01
EOSINOPHILS	2.5	%	01
BASOPHILS	0.4	%	01
BLASTS	DNR	%	01
NUCLEATED RBC	DNR	0 /100 WBC	01
COMMENT(S)	DNR		01

**FSH**  
 FSH 2.2 mIU/mL 01

Reference Range

Follicular Phase	2.5-10.2
Mid-cycle Peak	3.1-17.7
Luteal Phase	1.5- 9.1
Postmenopausal	23.0-116.3

**LH**  
 LH 0.9 mIU/mL 01

Reference Range

Follicular Phase	1.9-12.5
Mid-Cycle Peak	8.7-76.3
Luteal Phase	0.5-16.9
Postmenopausal	10.0-54.7

**PROGESTERONE**  
 PROGESTERONE 2.6 ng/mL 01

Reference Ranges

Female

Follicular Phase	< 1.0
Luteal Phase	2.6-21.5
Post menopausal	< 0.5
Pregnancy	
1st Trimester	4.1-34.0
2nd Trimester	24.0-76.0
3rd Trimester	52.0-302.0

**TSH**  
 TSH 3.16 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 355 200-1100 pg/mL 01

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Please Note: Although the reference range for vitamin B12 is 200-1100 pg/mL, it has been reported that between 5 and 10% of patients with values between 200 and 400 pg/mL may experience neuropsychiatric and hematologic abnormalities due to occult B12 deficiency; less than 1% of patients with values above 400 pg/mL will have symptoms.

## ESTRADIOL

ESTRADIOL	67	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), the Quest Diagnostics Nichols Institute Estradiol, Ultrasensitive, LCMSMS assay is recommended (order code 30289).

## HEMOGLOBIN A1c

HEMOGLOBIN A1c	5.2	<5.7 % of total Hgb	01
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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 a decreased 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	53	HIGH	2-45 ng/dL	02
FREE TESTOSTERONE	5.5		0.1-6.4 pg/mL	02

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

VITAMIN D, 25-OH, TOTAL	20	LOW	30-100 ng/mL	02
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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	20		See Below ng/mL	02
Reference Range:	Not established			
VITAMIN D, 25-OH, D2	<4		See Below ng/mL	02
Reference Range:	Not established			

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