

Patient Information	Specimen Information	Client Information
DOB: AGE: Gender: Phone: Patient ID:	Specimen: Requisition: Lab Ref #: Collected: Received: Reported:	

Test Name	In Range	Out Of Range	Reference Range	Lab
THYROID PANEL WITH TSH				
THYROID PANEL				
T3 UPTAKE	34		22-35 %	
T4 (THYROXINE), TOTAL	7.1		5.1-11.9 mcg/dL	
FREE T4 INDEX (T7)	2.4		1.4-3.8	
TSH	2.02		mIU/L	

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

LIPID PANEL, STANDARD

CHOLESTEROL, TOTAL	190		<200 mg/dL	
HDL CHOLESTEROL	57		>50 mg/dL	
TRIGLYCERIDES	87		<150 mg/dL	
LDL-CHOLESTEROL		114 H	mg/dL (calc)	

Reference range: <100

Desirable range <100 mg/dL for primary prevention;
 <70 mg/dL for patients with CHD or diabetic patients
 with > or = 2 CHD risk factors.

LDL-C is now calculated using the Martin-Hopkins calculation, which is a validated novel method providing better accuracy than the Friedewald equation in the estimation of LDL-C.

Martin SS et al. JAMA. 2013;310(19): 2061-2068
 (<http://education.QuestDiagnostics.com/faq/FAQ164>)

CHOL/HDL-C RATIO	3.3		<5.0 (calc)	
NON HDL CHOLESTEROL		133 H	<130 mg/dL (calc)	

For patients with diabetes plus 1 major ASCVD risk factor, treating to a non-HDL-C goal of <100 mg/dL (LDL-C of <70 mg/dL) is considered a therapeutic option.

HS CRP		11.0 H	mg/L	
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Persistent elevation, upon retesting, may be associated with infection and inflammation according to AHA/CDC guidelines.

For ages >17 Years:

hs-CRP mg/L	Risk According to AHA/CDC Guidelines
<1.0	Lower relative cardiovascular risk.
1.0-3.0	Average relative cardiovascular risk.
3.1-10.0	Higher relative cardiovascular risk.

Consider retesting in 1 to 2 weeks to exclude a benign transient elevation in the baseline CRP value secondary to infection or inflammation.

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>10.0		Persistent elevation, upon retesting, may be associated with infection and inflammation.		

COMPREHENSIVE METABOLIC

PANEL				
GLUCOSE	95		65-99 mg/dL	
			Fasting reference interval	
UREA NITROGEN (BUN)	10		7-25 mg/dL	
CREATININE	0.73		0.50-1.10 mg/dL	
eGFR NON-AFR. AMERICAN	97		> OR = 60 mL/min/1.73m2	
eGFR AFRICAN AMERICAN	112		> OR = 60 mL/min/1.73m2	
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	
SODIUM	139		135-146 mmol/L	
POTASSIUM	3.8		3.5-5.3 mmol/L	
CHLORIDE	104		98-110 mmol/L	
CARBON DIOXIDE	30		20-32 mmol/L	
CALCIUM	9.2		8.6-10.2 mg/dL	
PROTEIN, TOTAL	7.4		6.1-8.1 g/dL	
ALBUMIN	4.2		3.6-5.1 g/dL	
GLOBULIN	3.2		1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	1.3		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.5		0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	46		33-115 U/L	
AST	16		10-35 U/L	
ALT	25		6-29 U/L	
HEMOGLOBIN A1c		5.9 H	<5.7 % of total Hgb	

For someone without known diabetes, a hemoglobin A1c value between 5.7% and 6.4% is consistent with prediabetes and should be confirmed with a follow-up test.

For someone with known diabetes, a value <7% indicates that their diabetes is well controlled. A1c targets should be individualized based on duration of diabetes, age, comorbid conditions, and other considerations.

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

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

PHOSPHATE (AS PHOSPHORUS)	3.7		2.5-4.5 mg/dL	
URIC ACID	6.5		2.5-7.0 mg/dL	
			Therapeutic target for gout patients: <6.0 mg/dL	
LD	100		100-200 U/L	
GGT	21		3-55 U/L	
CAROTENE	32		6-77 mcg/dL	

Vitamin supplementation within 24 hours prior to blood draw may affect the accuracy of the results.

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VITAMIN A (RETINOL)	51		38-98 mcg/dL	
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VITAMIN B6, PLASMA	21.6		2.1-21.7 ng/mL	
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VITAMIN E (TOCOPHEROL)		20.5 H	5.7-19.9 mg/L	
ALPHA-TOCOPHEROL				

Levels of alpha-tocopherol <5 mg/L are consistent with Vitamin E deficiency in adults.

BETA-GAMMA-TOCOPHEROL	1.1		<=4.3 mg/L	
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VITAMIN B1 (THIAMINE),

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BLOOD, LC/MS/MS	105		78-185 nmol/L	

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CBC (INCLUDES DIFF/PLT)				
WHITE BLOOD CELL COUNT	7.3		3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	4.61		3.80-5.10 Million/uL	
HEMOGLOBIN	12.4		11.7-15.5 g/dL	
HEMATOCRIT	37.7		35.0-45.0 %	
MCV	81.8		80.0-100.0 fL	
MCH		26.9 L	27.0-33.0 pg	
MCHC	32.9		32.0-36.0 g/dL	
RDW	13.0		11.0-15.0 %	
PLATELET COUNT	328		140-400 Thousand/uL	
MPV	9.2		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	3570		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	3059		850-3900 cells/uL	
ABSOLUTE MONOCYTES	438		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	212		15-500 cells/uL	
ABSOLUTE BASOPHILS	22		0-200 cells/uL	
NEUTROPHILS	48.9		%	
LYMPHOCYTES	41.9		%	
MONOCYTES	6.0		%	
EOSINOPHILS	2.9		%	
BASOPHILS	0.3		%	
URINALYSIS, COMPLETE				
COLOR	YELLOW		YELLOW	
APPEARANCE		TURBID	CLEAR	
SPECIFIC GRAVITY	1.024		1.001-1.035	
PH	5.5		5.0-8.0	
GLUCOSE	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE	
KETONES	NEGATIVE		NEGATIVE	
OCCULT BLOOD	NEGATIVE		NEGATIVE	
PROTEIN	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
LEUKOCYTE ESTERASE	NEGATIVE		NEGATIVE	
WBC	0-5		< OR = 5 /HPF	
RBC	0-2		< OR = 2 /HPF	
SQUAMOUS EPITHELIAL CELLS		10-20	< OR = 5 /HPF	
BACTERIA		FEW	NONE SEEN /HPF	
HYALINE CAST	NONE SEEN		NONE SEEN /LPF	
IRON, TOTAL	59		40-190 mcg/dL	
VITAMIN B12/FOLATE, SERUM PANEL				
VITAMIN B12	382		200-1100 pg/mL	

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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).

Please note: patients being treated with the drug fulvestrant (Faslodex(R)) have demonstrated significant interference in immunoassay methods for estradiol measurement. The cross reactivity could lead to falsely elevated estradiol test results leading to an inappropriate clinical assessment of estrogen status. Quest Diagnostics order code 30289-Estradiol, Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant.

CA 19-9	16		<34 U/mL	
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This test was performed using the Siemens chemiluminescent method. Values obtained from different assay methods cannot be used interchangeably. CA 19-9 levels, regardless of value, should not be interpreted as absolute evidence of the presence or absence of disease.

CA 27.29	18		<38 U/mL	
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This test was performed using the Siemens Chemiluminescent method. Values obtained from different assay methods cannot be used interchangeably. CA 27.29 levels, regardless of value, should not be interpreted as absolute evidence of the presence or absence of disease.

TESTOSTERONE, FREE (DIALYSIS) AND TOTAL, MS TESTOSTERONE, TOTAL, MS	30		2-45 ng/dL	
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For additional information, please refer to <http://education.questdiagnostics.com/faq/TotalTestosteroneLCMSMSFAQ165> (This link is being provided for informational/educational purposes only.)

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TESTOSTERONE, FREE	5.8		0.1-6.4 pg/mL	
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This test was developed and its analytical performance

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Endocrinology

Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	11 L	30-100 ng/mL	
Vitamin D Status 25-OH Vitamin D: Deficiency: <20 ng/mL Insufficiency: 20 - 29 ng/mL Optimal: > or = 30 ng/mL For 25-OH Vitamin D testing on patients on D2-supplementation and patients for whom quantitation of D2 and D3 fractions is required, the QuestAssureD(TM) 25-OH VIT D, (D2,D3), LC/MS/MS is recommended: order code 92888 (patients >2yrs). For more information on this test, go to: http://education.questdiagnostics.com/faq/FAQ163 (This link is being provided for informational/educational purposes only.)			
Physician Comments:			

PERFORMING SITE: