

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

## **COMMENTS:**

Test Name	In Range	Out Of Range	Reference Range	Lab
THYROID PANEL WITH TSH				
THYROID PANEL T3 UPTAKE	27		22-35 %	
T4 (THYROXINE), TOTAL	7.5		5.1-11.9 mcg/dL	
FREE T4 INDEX (T7)	2.0		1.4-3.8	
TSH TIMBER (17)	1.83		mIU/L	
	2,00	Ref	erence Range	
		> 0	pr = 20  Years  0.40-4.50	
			Pregnancy Ranges	
			est trimester 0.26-2.66	
			cond trimester 0.55-2.73	
TIDID DANIEL CHANDADD		Thi	rd trimester 0.43-2.91	
LIPID PANEL, STANDARD	166		<200 mg/dI	
CHOLESTEROL, TOTAL HDL CHOLESTEROL	54		<200 mg/dL >50 mg/dL	
TRIGLYCERIDES	83		<150 mg/dL	
LDL-CHOLESTEROL	95		mg/dL (calc)	
Reference range: <100			5, ( ,	
Desirable range <100 mg/c				
<70 mg/dL for patients w		tic patients		
with $>$ or = 2 CHD risk fa	actors.			
LDL-C is now calculated u	iging the Martin	-Working		
calculation, which is a			a	
better accuracy than the			5	
estimation of LDL-C.	rrranguatu oqua	01011 111 0110		
Martin SS et al. JAMA. 20	013;310(19): 206	1-2068		
(http://education.QuestD:	agnostics.com/f	aq/FAQ164)		
CHOL/HDLC RATIO	3.1		<5.0 (calc)	
NON HDL CHOLESTEROL	112		<130 mg/dL (calc)	
For patients with diabete				
factor, treating to a nor $(LDL-C \text{ of } <70 \text{ mg/dL})$ is $c$				
option.	constdered a the	rapeuric		
HS CRP		4.1 H	mq/L	
			mg/ =	

Higher relative cardiovascular risk according to AHA/CDC guidelines. Consider retesting in 1 to 2 weeks to exclude a benign transient elevation in the baseline CRP value secondary to infection or inflammation.

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



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in the baseline CRP value secondary

to infection or inflammation.

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

inflammation.

HOMOCYSTEINE 7.7 <10.4 umol/L

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.

COMPREHENSIVE METABOLIC

PANEL

GLUCOSE 84 65-99 mg/dL

Fasting reference interval

UREA NITROGEN (BUN) 13 7-25 mg/dL0.94 CREATININE 0.50-1.10 mg/dLeGFR NON-AFR. AMERICAN 73 > OR = 60 mL/min/1.73m2eGFR AFRICAN AMERICAN 84 > OR = 60 mL/min/1.73m2BUN/CREATININE RATIO NOT APPLICABLE 6-22 (calc) 135-146 mmol/L SODIUM 136 POTASSIUM 4.5  $3.5-5.3 \, \text{mmol/L}$ CHLORIDE 102 98-110 mmol/L 25 20-32 mmol/L CARBON DIOXIDE CALCIUM 9.4 8.6-10.2 mg/dLPROTEIN, TOTAL 7.1 6.1-8.1 g/dLALBUMIN 4.3 3.6-5.1 g/dLGLOBULIN 2.8 1.9-3.7 g/dL (calc) ALBUMIN/GLOBULIN RATIO 1.5 1.0-2.5 (calc) BILIRUBIN, TOTAL 0.5 0.2-1.2 mg/dL88 ALKALINE PHOSPHATASE 33-115 U/L AST 18 10-35 U/L ALT 21 6-29 U/L <5.7 % of total Hgb HEMOGLOBIN A1c 5.4

For the purpose of screening for the presence of diabetes:

> or =6.5% Consistent with diabetes

This assay result is consistent with a decreased risk of diabetes.

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

According to American Diabetes Association (ADA) guidelines, hemoglobin Alc <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations.



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		To Parana Out of Par	Defense Péres

Test Name In Range Out Of Range Lab Reference Range Standards of Medical Care in Diabetes(ADA). PHOSPHATE (AS PHOSPHORUS) 2.9 2.5-4.5 mg/dLURIC ACID 10.1 H 2.5-7.0 mg/dLTherapeutic target for gout patients: <6.0 mg/dL LD 163 100-200 U/L GGT 21 3-55 U/L 0.8-1.8 ng/dL T4, FREE 1.1 T3, FREE 2.3 2.3-4.2 pg/mLESTROGEN, TOTAL, SERUM 203.4 pg/mL

Reference Ranges for Total Estrogen:

Follicular Phase

(1-12 days): 90-590 pg/mL Luteal Phase: 130-460 pg/mL Postmenopausal: 50-170 pg/mL

The total estrogen assay is not recommended for use in

pre-pubertal children.

IGF 1, LC/MS 152 52-328 ng/mL Z SCORE (FEMALE) 0.1 -2.0 - +2.0 SD

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

CBC (INCLUDES DIFF/PLT)		
WHITE BLOOD CELL COUNT	7.7	3.8-10.8 Thousand/uL
RED BLOOD CELL COUNT	4.99	3.80-5.10 Million/uL
HEMOGLOBIN	14.2	11.7-15.5 g/dL
HEMATOCRIT	42.6	35.0-45.0 %
MCV	85.4	80.0-100.0 fL
MCH	28.5	27.0-33.0 pg
MCHC	33.3	32.0-36.0 g/dL
RDW	13.2	11.0-15.0 %
PLATELET COUNT	391	140-400 Thousand/uL
MPV	10.1	7.5-12.5 fL
ABSOLUTE NEUTROPHILS	4836	1500-7800 cells/uL
ABSOLUTE LYMPHOCYTES	2272	850-3900 cells/uL
ABSOLUTE MONOCYTES	508	200-950 cells/uL
ABSOLUTE EOSINOPHILS	62	15-500 cells/uL
ABSOLUTE BASOPHILS	23	0-200 cells/uL
ABSOLUTE NUCLEATED RBC	0	0 cells/uL
NEUTROPHILS	62.8	%
LYMPHOCYTES	29.5	%
MONOCYTES	6.6	%
EOSINOPHILS	0.8	%
BASOPHILS	0.3	%
URINALYSIS, COMPLETE		
COLOR	YELLOW	YELLOW
APPEARANCE	CLEAR	CLEAR



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PH GLUCOSE BILIRUB: KETONES OCCULT I PROTEIN NITRITE LEUKOCY: WBC RBC SQUAMOUS BACTERIS HYALINE IRON AND	C GRAVITY  IN  BLOOD  FE ESTERASE  S EPITHELIAL CELLS  A  CAST  TOTAL IRON	In Range 1.008 5.5 NEGATIVE NONE SEEN NONE SEEN NONE SEEN NONE SEEN NONE SEEN	Reference Range 1.001-1.035 5.0-8.0 NEGATIVE NEGATIVE NEGATIVE NEGATIVE NEGATIVE NEGATIVE NEGATIVE NEGATIVE NEGATIVE OR = 5 /HPF < OR = 5 /HPF < OR = 5 /HPF NONE SEEN /HPF NONE SEEN /LPF
IRON, TO IRON BII % SATURA DHEA SULF.	NDING CAPACITY ATION ATE	52 406 13 <b>260 H</b>	40-190 mcg/dL 250-450 mcg/dL (calc) 11-50 % (calc) 19-231 mcg/dL
For	a-S values fall with a reference, the refere patients are:	dvancing age. nce intervals for 31-40 year	
Male Fema	: 106-464 mcg/dL de: 23-266 mcg/dL		
GROWTH HO	RMONE (GH)	<0.1	< OR = 7.1 ng/mL
(uns frec and Rega	timulated) growth hor quently undetectable i are not reliable for	n normal children and adults diagnosing GH deficiency. ts, failure to suppress GH	
Us ac is [K Ac Gu 39 Us at de	eromegaly is ruled out s <1.0 ng/mL at any postatznelson L, Laws Jr eromegaly: an Endocrinateline. J Clin Endocrinateline. J Clin Endocrinateline.	ance (GH suppression) test, if the patient's GH level int in the timed sequence. ER, Melmed S, et al. e Society Clinical Practice rinol Metab 2014; 99: 3933-sting, the following result ed sequence makes GH	

ng/mL Reference Ranges

PROGESTERONE

Glucagon

Children (< 20 years):

> or = 3.0 ng/mL

<0.5

Insulin Hypoglycemia > or = 5.1 ng/mL Arginine/GHRH > or = 4.1 ng/mL

All Stimulation Tests > or = 10.0 ng/mL



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Test Name	In Range	Out Of Range Reference Range Female	Lab
		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	
ESTRADIOL	66	pg/mL	
		Reference Range	
		Follicular Phase: 19-144	
		Mid-Cycle: 64-357	
		Luteal Phase: 56-214	
		Postmenopausal: < 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).

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.

TESTOSTERONE, FREE

(DIALYSIS) AND TOTAL, MS TESTOSTERONE, TOTAL, MS

29 TESTOSTERONE, FREE 3.6 2-45 ng/dL 0.1-6.4 pg/mL

\*\*Data from J Clin Invest 1974:53:819-828 and J Clin Endocrinol Metab 1973;36:1132-1142. Men with clinically significant hypogonadal symptoms and testosterone values repeatedly in the range of the 200-300 ng/dL or less, may benefit from testosterone treatment after adequate risk and benefits counseling.

For additional information, please refer to http://education.questdiagnostics.com/faq/FAQ165 (This link is being provided for informational/ educational purposes only.)

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute Valencia. It has not been cleared or approved by the US Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.



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## Endocrinology

Test N	lame	Result	Reference Range		Lab
VITAMIN D,25-OH,TOTAL,IA		26 L	30-100 ng/mL		
Vitamin D Status	25-OH Vitamin D:				

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:**