

Patient Informatio	n	Specimen Information	Client Information
		Specimen: Requisition:	
DOB: Gender: Phone: Patient ID:	AGE:	Collected: Received: Reported:	

COMMENTS:	EACTING VEC
COMMENTS	FASTING: YES

Test Name	In Range	Out Of Range	Reference Range	Lab
THYROID PANEL WITH TSH				
THYROID PANEL				
T3 UPTAKE	31		22-35 %	
T4 (THYROXINE), TOTAL	9.4		4.9-10.5 mcg/dL	
FREE T4 INDEX (T7)	2.9		1.4-3.8	
TSH		5.43 H	0.40-4.50  mIU/L	
LIPID PANEL, STANDARD				
CHOLESTEROL, TOTAL		251 Н	<200 mg/dL	
HDL CHOLESTEROL		40 L	>40 mg/dL	
TRIGLYCERIDES	138		<150 mg/dL	
LDL-CHOLESTEROL		183 н	mg/dL (calc)	
Reference range: <100				
D				

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/HDLC RATIO <5.0 (calc) 6.3 H <130 mg/dL (calc) NON HDL CHOLESTEROL

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

COMPREHENSIVE METABOLIC

PANEL

65-99 mg/dL GLUCOSE 88

Fasting reference interval

UREA NITROGEN (BUN) 15 7-25 mg/dL1.09 0.70-1.33 mg/dLCREATININE

For patients >49 years of age, the reference limit for Creatinine is approximately 13% higher for people

identified as African-American.

.73m2
)



GGT

GROWTH HORMONE (GH)

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ALBUMIN/GLOBULIN RATIO	2.3		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.8		0.2-1.2  mg/dL	
ALKALINE PHOSPHATASE	76		40-115 U/L	
AST	13		10-35 U/L	
ALT	15		9-46 U/L	
PHOSPHATE (AS PHOSPHORUS)	3.8		2.5-4.5 mg/dL	
URIC ACID	7.5		4.0-8.0 mg/dL	
Therapeutic target for	gout patients: <6	.0 mg/dL		
LD	195		120-250 U/L	

3-85 U/L

<=7.1 ng/mL

Because of a pulsatile secretion pattern, random (unstimulated) growth hormone (GH) levels are frequently undetectable in normal children and adults and are not reliable for diagnosing GH deficiency. Regarding suppression tests, failure to suppress GH is diagnostic of acromegaly.

25

<0.1

Typical GH response in healthy subjects: Using the glucose tolerance (GH Suppression) test, acromegaly is ruled out if the patient's GH level is <1.0 ng/mL at any point in the timed sequence. [Katznelson L, Laws Jr ER, Melmed S, et al. Acromegaly: an Endocrine Society Clinical Practice Guideline. J Clin Endocrinol Metab 2014; 99: 3933-3951].

Using GH stimulation testing, the following results at any point in the timed sequence makes GH deficiency unlikely: Adults (> or = 20 Years):

Insulin Hypoglycemia

> or = 5.1 ng/mL Arginine/GHRH > or = 4.1 ng/mL > or = 3.0 ng/mLGlucagon

Children (< 20 Years):

All Stimulation Tests > or = 10.0 ng/mL

IGF 1, LC/MS 107 50-317 ng/mLZ SCORE (MALE) -0.5 -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	8.1	3.8-10.8 Thousand/uL
RED BLOOD CELL COUNT	5.28	4.20-5.80 Million/uL
HEMOGLOBIN	16.3	13.2-17.1 g/dL
HEMATOCRIT	46.8	38.5-50.0 %
MCV	88.6	80.0-100.0 fL
MCH	30.9	27.0-33.0 pg



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MCHC	34.8		32.0-36.0 g/dL	
RDW	12.6		11.0-15.0 %	
PLATELET COUNT	366		140-400 Thousand/uL	
MPV	9.7		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	5063		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	1223		850-3900 cells/uL	
ABSOLUTE MONOCYTES	454		200-950 cells/uL	
ABSOLUTE EOSINOPHILS		1304 H	15-500 cells/uL	
ABSOLUTE BASOPHILS	57		0-200 cells/uL	
NEUTROPHILS	62.5		8	
LYMPHOCYTES	15.1		8	
MONOCYTES	5.6		8	
EOSINOPHILS	16.1		00	
BASOPHILS	0.7		96	
URINALYSIS, COMPLETE				
COLOR	YELLOW		YELLOW	
APPEARANCE	CLEAR		CLEAR	
SPECIFIC GRAVITY PH	1.008 6.5		1.001-1.035 5.0-8.0	
GLUCOSE	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE NEGATIVE	
KETONES	NEGATIVE	TRACE	NEGATIVE NEGATIVE	
OCCULT BLOOD	NEGATIVE	TRACE	NEGATIVE	
PROTEIN	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
LEUKOCYTE ESTERASE	NEGATIVE		NEGATIVE	
WBC	NONE SEEN		< OR = 5 /HPF	
RBC	NONE SEEN		< OR = 2 / HPF	
SQUAMOUS EPITHELIAL CELLS	NONE SEEN		< OR = 5 / HPF	
BACTERIA	NONE SEEN		NONE SEEN /HPF	
HYALINE CAST	NONE SEEN		NONE SEEN /LPF	
IRON AND TOTAL IRON				
BINDING CAPACITY				
IRON, TOTAL	180		50-180 mcg/dL	
IRON BINDING CAPACITY	337		250-425 mcg/dL (calc)	
% SATURATION	53		15-60 % (calc)	
DHEA SULFATE	292		38-313 mcg/dL	
DHEA-S values fall with a For reference, the reference		r 31-40 year		
old patients are:				
Male: 106-464 mcg/dL Female: 23-266 mcg/dL				
ESTRADIOL  Reference range establish population. No pre-pubert established using this as whom low Estradiol levels pre-pubertal children and females), the Quest Diagn Estradiol, Ultrasensitive	al reference ran say. For any pat are anticipated hypogonadal/pos ostics Nichols I	ge ients for (e.g. males, t-menopausal nstitute	< OR = 39 pg/mL	

Please note: patients being treated with the drug



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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.

PSA, TOTAL 0.7 < OR = 4.0 ng/mL

The total PSA value from this assay system is standardized against the WHO standard. The test result will be approximately 20% lower when compared to the equimolar-standardized total PSA (Beckman Coulter). Comparison of serial PSA results should be interpreted with this fact in mind.

This test was performed using the Siemens chemiluminescent method. Values obtained from different assay methods cannot be used interchangeably. PSA 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 TESTOSTERONE, FREE

347 44.4 250-1100 ng/dL 35.0-155.0 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 Name	Result	Reference Range		Lab
VITAMIN D,25-OH,TOTAL,IA	44	30-100 ng/mL		KS

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:

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