Patient Information	Specimen Information	Client Information

COMMENTS:

Test Name	In Range	Out Of Range	Reference Range	Lab
THYROID PANEL WITH TSH				
THYROID PANEL				QPT
T3 UPTAKE		**46 H**	22-35 %	
T4 (THYROXINE), TOTAL		**2.7 L**	5.1-11.9 mcg/dL	
		Verified by repeat analysis.		
FREE T4 INDEX (T7)		**1.2 L**	1.4-3.8	
TSH	1.04		mIU/L	QPT
			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		**244 H**	<200 mg/dL	QPT
HDL CHOLESTEROL	62		> OR = 50 mg/dL	QPT
TRIGLYCERIDES	86		<150 mg/dL	QPT
LDL-CHOLESTEROL		**163 H**	mg/dL (calc)	QPT
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/HDLC RATIO	3.9		<5.0 (calc)	QPT
NON HDL CHOLESTEROL		**182 H**	<130 mg/dL (calc)	QPT
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.				
COMPREHENSIVE METABOLIC PANEL				QPT
GLUCOSE	96		65-99 mg/dL	
			Fasting reference interval	
UREA NITROGEN (BUN)	13		7-25 mg/dL	
CREATININE	0.55		0.50-1.03 mg/dL	
EGFR	111		> OR = 60 mL/min/1.73m2	
BUN/CREATININE RATIO	SEE NOTE:		6-22 (calc)	
Not Reported: BUN and Creatinine are within reference range.				

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SODIUM	136		135-146 mmol/L	
POTASSIUM	4.0		3.5-5.3 mmol/L	
CHLORIDE	102		98-110 mmol/L	
CARBON DIOXIDE	25		20-32 mmol/L	
CALCIUM	9.4		8.6-10.4 mg/dL	
PROTEIN, TOTAL	7.1		6.1-8.1 g/dL	
ALBUMIN	4.4		3.6-5.1 g/dL	
GLOBULIN	2.7		1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	1.6		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.3		0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	68		37-153 U/L	
AST	18		10-35 U/L	
ALT	18		6-29 U/L	
PHOSPHATE (AS PHOSPHORUS)	3.7		2.5-4.5 mg/dL	QPT
URIC ACID	4.2		2.5-7.0 mg/dL	QPT
Therapeutic target for gout patients: <6.0 mg/dL				
LD	139		120-250 U/L	QPT
GGT	9		3-70 U/L	QPT
ESTROGENS, TOTAL, IA	432		pg/mL	EZ
Reference Ranges for Total Estrogen:				
Follicular Phase:	51-601			
Luteal Phase:	87-1194			
Postmenopausal:	< or = 214			
CBC (INCLUDES DIFF/PLT)				QPT
WHITE BLOOD CELL COUNT	6.3		3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	4.65		3.80-5.10 Million/uL	
HEMOGLOBIN	12.5		11.7-15.5 g/dL	
HEMATOCRIT	38.2		35.0-45.0 %	
MCV	82.2		80.0-100.0 fL	
MCH		**26.9 L**	27.0-33.0 pg	
MCHC	32.7		32.0-36.0 g/dL	
RDW	14.7		11.0-15.0 %	
PLATELET COUNT	259		140-400 Thousand/uL	
MPV	10.9		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	4019		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	1512		850-3900 cells/uL	
ABSOLUTE MONOCYTES	649		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	82		15-500 cells/uL	
ABSOLUTE BASOPHILS	38		0-200 cells/uL	
NEUTROPHILS	63.8		%	
LYMPHOCYTES	24.0		%	
MONOCYTES	10.3		%	
EOSINOPHILS	1.3		%	
BASOPHILS	0.6		%	
URINALYSIS, COMPLETE				QPT
COLOR	YELLOW		YELLOW	
APPEARANCE	CLEAR		CLEAR	
SPECIFIC GRAVITY	1.016		1.001-1.035	
PH	< OR = 5.0		5.0-8.0	
GLUCOSE	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE	
KETONES	NEGATIVE		NEGATIVE	
OCCULT BLOOD	NEGATIVE		NEGATIVE	

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Test Name	In Range	Out Of Range	Reference Range	Lab
PROTEIN	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
LEUKOCYTE ESTERASE		**TRACE**	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, TOTAL	51		45-160 mcg/dL	QPT
ESTRADIOL	278		pg/mL	QPT

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.

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Endocrinology

Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	68	30-100 ng/mL	QPT

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Vitamin D Status          25-OH Vitamin D:

Deficiency:                     <20 ng/mL
Insufficiency:            20 - 29 ng/mL
Optimal:                  > or = 30 ng/mL
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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 additional information, please refer to http://education.QuestDiagnostics.com/faq/FAQ199 (This link is being provided for informational/ educational purposes only.)

Physician Comments: