

Patient Information	Specimen Information	Client Information	
Test Name THYROID PANEL WITH TSH	In Range Out Of Range	Reference Range	Lab
THYROID PANEL			AT
T3 UPTAKE	31	22-35 %	
T4 (THYROXINE), TOTAL	7.1	4.9-10.5 mcg/dL	
FREE T4 INDEX (T7)	2.2	1.4-3.8	3.00
TSH LIPID PANEL, STANDARD	2.27	0.40-4.50 mIU/L	AT
CHOLESTEROL, TOTAL	166	<200 mg/dL	AT
HDL CHOLESTEROL	42	> OR = 40 mg/dL	AT
TRIGLYCERIDES	146	<150 mg/dL	AT
LDL-CHOLESTEROL	99	mg/dL (calc)	AT
Reference range: <100			
better accuracy than the Fi estimation of LDL-C. Martin SS et al. JAMA. 2011	h CHD or diabetic patients tors. ing the Martin-Hopkins lidated novel method providir riedewald equation in the 3;310(19): 2061-2068	ng	
(http://education.QuestDiag		- o / ·	
CHOL/HDLC RATIO	4.0	<5.0 (calc)	AT
NON HDL CHOLESTEROL For patients with diabetes		<130 mg/dL (calc)	AT
factor, treating to a non- $(LDL-C \text{ of } <70 \text{ mg/dL})$ is con-	HDL-C goal of <100 mg/dL		
option.	0.0.77	/T	7 00
Reference Range Optimal <1.0 Jellinger PS et al. Endocr	8.9 H Pract.2017;23(Suppl 2):1-87.	mg/L	AT
1.0-3.0 3.1-10.0 Higher relation Consider retermine the baseling to infection Consistent elements and the baseling to infection Consider retermine the baseling to infection Consider relations and the baseling to infection Consider retermine the baseling to infection Consider retermine the baseling to the baselin	g to AHA/CDC Guidelines e cardiovascular risk. ive cardiovascular risk. ve cardiovascular risk. sting in 1 to 2 weeks to ign transient elevation ne CRP value secondary or inflammation. evation, upon retesting, ated with infection and		
folate or vitamin B12. Test differentiates between the of increased homocysteine	11.0 by functional deficiency of ting for methylmalonic acid se deficiencies. Other causes include renal failure, folate rexate and phenytoin, and		AT



atient Information		Client Information	
Test Name exposure to nitrous oxide		Reference Range	Lab
Selhub J, et al., Ann Int COMPREHENSIVE METABOLIC	ern Med. 1999/131(5):331-	-9.	AT
PANEL GLUCOSE	91	65-99 mg/dL	
GLOCODE	J1	Fasting reference interval	
UREA NITROGEN (BUN) CREATININE EGFR	13 0.97 106	7-25 mg/dL 0.60-1.26 mg/dL > OR = 60 mL/min/1.73m2	
The eGFR is based on the the new eGFR from a previous result, go to https://www.kdoqi/gfr%5Fcalculator	ous Creatinine or Cystati	n C	
BUN/CREATININE RATIO	NOT APPLICABLE	6-22 (calc)	
SODIUM POTASSIUM	139 4.6	135-146 mmol/L 3.5-5.3 mmol/L	
CHLORIDE	101	98-110 mmol/L	
CARBON DIOXIDE	28	20-32 mmol/L	
CALCIUM	10.0	8.6-10.3 mg/dL	
PROTEIN, TOTAL ALBUMIN	7.6 4.6	6.1-8.1 g/dL 3.6-5.1 g/dL	
GLOBULIN	3.0	1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	1.5	1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.9	0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	93	36-130 U/L	
AST	19	10-40 U/L	
ALT	28	9-46 U/L	
HEMOGLOBIN A1c For the purpose of screen diabetes:	5.1 ing for the presence of	<5.7 % of total Hgb	AT
	th the absence of diabete	-	
5.7-6.4% Consistent wi (prediabetes)	th increased risk for dia		
> or =6.5% Consistent wi			
This assay result is cons of diabetes.		risk	
Currently, no consensus en hemoglobin Alc for diagno	xists regarding use of sis of diabetes in childr	cen.	
According to American Diaguidelines, hemoglobin Alcontrol in non-pregnant detrics may apply to spec Standards of Medical Care	c <7.0% represents optimaliabetic patients. Differe ific patient populations.	ent	
PHOSPHATE (AS PHOSPHORUS) URIC ACID Therapeutic target for go	3.3 7.2 ut patients: <6.0 mg/dL	2.5-4.5 mg/dL 4.0-8.0 mg/dL	AT AT



	Specimen Information	Client Information	
Test Name	In Range Out Of		Lab
T4, FREE T3, FREE	1.1 3.6	0.8-1.8 ng/dL 2.3-4.2 pg/mL	AT AT
VITAMIN A (RETINOL)	40	38-98 mcg/dL	AMD
Vitamin supplementation wi blood draw may affect the			
This test was developed an characteristics have been Diagnostics Nichols Instit not been cleared or approv Administration. This assay to the CLIA regulations an purposes.	determined by Quest ute Chantilly, VA. It ha ed by the U.S. Food and has been validated purs	as Drug	
IGF 1, LC/MS Z SCORE (MALE)	138 -0.2	53-331 ng/mL -2.0 - +2.0 SD	ΕZ
This test was developed an	determined by Quest Diag		
Nichols Institute San Juan cleared or approved by FDA pursuant to the CLIA regul purposes.	Capistrano. It has not . This assay has been va	alidated	
Nichols Institute San Juan cleared or approved by FDA pursuant to the CLIA regul purposes. CBC (INCLUDES DIFF/PLT) WHITE BLOOD CELL COUNT	Capistrano. It has not . This assay has been va ations and is used for o	alidated clinical 3.8-10.8 Thousand/uL	AT
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Nichols Institute San Juan cleared or approved by FDA pursuant to the CLIA regul purposes. CBC (INCLUDES DIFF/PLT) WHITE BLOOD CELL COUNT RED BLOOD CELL COUNT HEMOGLOBIN	Capistrano. It has not. This assay has been valued ations and is used for continuous forms. 7.9 5.77 16.7 50.0 86.7 28.9	alidated clinical 3.8-10.8 Thousand/uL 4.20-5.80 Million/uL 13.2-17.1 g/dL	AT
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Patient Information	Specimen Information	Client Information
	In Range Out Of Ran NEGATIVE NEGATIVE NONE SEEN A for the presence of WBC, and other formed elements.	ge Reference Range NEGATIVE NEGATIVE < OR = 5 /HPF < OR = 2 /HPF < OR = 5 /HPF NONE SEEN /HPF NONE SEEN /LPF
IRON AND TOTAL IRON BINDING CAPACITY		TA
IRON, TOTAL IRON BINDING CAPACITY % SATURATION VITAMIN B12	141 367 38 390	50-180 mcg/dL 250-425 mcg/dL (calc) 20-48 % (calc) 200-1100 pg/mL AT
B12 is 200-1100 pg/mL, 5 and 10% of patients w pg/mL may experience ne abnormalities due to oc	the reference range for vitaming it has been reported that betwith values between 200 and 40 europsychiatric and hematological B12 deficiency; less that above 400 pg/mL will have sy	n ween O C n 1%
FOLATE, SERUM	8.8	ng/mL AT Reference Range Low: <3.4 Borderline: 3.4-5.4 Normal: >5.4
Reference Range: For 4	9.7 a.m.(7-9 a.m.) Specimen: 4.0-p.m.(3-5 p.m.) Specimen: 3.0- ove results accordingly *	mcg/dL AT 22.0 17.0
DHEA SULFATE FSH GROWTH HORMONE (GH)	147 4.4 0.1	93-415 mcg/dL AT 1.6-8.0 mIU/mL AT < OR = 7.1 ng/mL AT
(unstimulated) growth h frequently undetectable	secretion pattern, random normone (GH) levels are	5

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.

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: 39333951].



Patient Information	Specimen Information	Client Information	
Test Name	In Range Out Of Range	Reference Range	Lab
Using GH stimulation test at any point in the timed deficiency unlikely: Adults (> or = 20 years)	sequence makes GH:		
Insulin Hypoglycemia Arginine/GHRH Glucagon	> or = 5.1 ng/mL > or = 4.1 ng/mL > or = 3.0 ng/mL		
Children (< 20 years): All Stimulation Tests LH	> or = 10.0 ng/mL 4.1	1.5-9.3 mIU/mL	א תי
PROGESTERONE	<0.5 24	<1.4 ng/mL	AT AT
Reference range established population. No pre-pubertal established using this assay whom low Estradiol levels as pre-pubertal children and hyfemales), the Quest Diagnos Estradiol, Ultrasensitive, (order code 30289).	on post-pubertal patient reference range y. For any patients for re anticipated (e.g. males, ypogonadal/post-menopausal tics Nichols Institute	< OR = 39 pg/mL	AT
interference in immunoassay	ave demonstrated significant methods for estradiol tivity could lead to falsely ults leading to an ssment of estrogen status. e 30289-Estradiol, onstrates negligible cross		
PSA, TOTAL The total PSA value from the standardized against the WHO result will be approximately to the equimolar-standardize Coulter). Comparison of serinterpreted with this fact.	0.27 is assay system is O standard. The test y 20% lower when compared ed total PSA (Beckman ial PSA results should be	< OR = 4.00 ng/mL	AT
This test was performed using chemiluminescent method. Value different assay methods can interchangeably. PSA levels value, should not be interprevidence of the presence or SEX HORMONE BINDING	lues obtained from not be used , regardless of reted as absolute		AT
GLOBULIN TESTOSTERONE, FREE	20	10-50 nmol/L	Z3E
(DIALYSIS) AND TOTAL,MS TESTOSTERONE, TOTAL, MS Men with clinically significally repeatedly in the range of	399 cant hypogonadal symptoms and the 200-300 ng/dL or less, may r adequate risk and benefits o	y benefit from	
For additional information, https://education.questdiagonalemonths link is being provided		al purposes only.)	



Patient Information	Specimen Information	Client Information

Test Name In Range Out Of Range Reference Range Lab (Note)

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

TESTOSTERONE, FREE 83.4 35.0-155.0 pg/mL (Note)

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

MDF med fusion 2501 South State Highway 121,Suite 1100 Lewisville TX 75067 972-966-7300 Michael Chaump, MD



Patient Information	Specimen Information	Client Information

Endocrinology

Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	28 L	30-100 ng/mL	AT

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.)

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Physician Comments: