

Patient Information	Specimen Information	Client Information
LEISER, MATTHEW [REDACTED]	Specimen: NE682218R Requisition: 0017047 Collected: 03/13/2017 / 08:30 EDT Received: 03/14/2017 / 03:46 EDT Reported: 03/17/2017 / 20:29 EDT	[REDACTED]

COMMENTS: FASTING: YES

Test Name	In Range	Out Of Range	Reference Range	Lab
LIPID PANEL				
CHOLESTEROL, TOTAL	177		125-200 mg/dL	QHO
HDL CHOLESTEROL		28 L	> OR = 40 mg/dL	QHO
TRIGLYCERIDES		274 H	<150 mg/dL	QHO
LDL-CHOLESTEROL	94		<130 mg/dL (calc)	QHO
Desirable range <100 mg/dL for patients with CHD or diabetes and <70 mg/dL for diabetic patients with known heart disease.				
CHOL/HDL C RATIO		6.3 H	< OR = 5.0 (calc)	QHO
NON HDL CHOLESTEROL	149		mg/dL (calc)	QHO
Target for non-HDL cholesterol is 30 mg/dL higher than LDL cholesterol target.				
COMPREHENSIVE METABOLIC PANEL				QHO
GLUCOSE	88		65-99 mg/dL	
Fasting reference interval				
UREA NITROGEN (BUN)	13		7-25 mg/dL	
CREATININE	0.75		0.60-1.35 mg/dL	
eGFR NON-AFR. AMERICAN	114		> OR = 60 mL/min/1.73m ²	
eGFR AFRICAN AMERICAN	132		> OR = 60 mL/min/1.73m ²	
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	
SODIUM	138		135-146 mmol/L	
POTASSIUM	4.7		3.5-5.3 mmol/L	
CHLORIDE	104		98-110 mmol/L	
CARBON DIOXIDE	27		20-31 mmol/L	
CALCIUM	9.3		8.6-10.3 mg/dL	
PROTEIN, TOTAL	6.7		6.1-8.1 g/dL	
ALBUMIN	4.2		3.6-5.1 g/dL	
GLOBULIN	2.5		1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	1.7		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.4		0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	62		40-115 U/L	
AST	22		10-40 U/L	
ALT	25		9-46 U/L	
HEMOGLOBIN A1c	5.5		<5.7 % of total Hgb	QHO
According to ADA guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes-2013. Diabetes Care. 2013;36:s11-s66				
For the purpose of screening for the presence of diabetes				
<5.7% Consistent with the absence of diabetes				
5.7-6.4% Consistent with increased risk for diabetes (prediabetes)				
>or=6.5% Consistent with diabetes				

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Test Name	In Range	Out Of Range	Reference Range	Lab
This assay result is consistent with a decreased risk of diabetes.				
Currently, no consensus exists for use of hemoglobin Alc for diagnosis of diabetes for children.				
TSH W/REFLEX TO FT4	1.32		0.40-4.50 mIU/L	QHO
TESTOSTERONE, FREE	97.6		46.0-224.0 pg/mL	AMD

The concentration of free testosterone is derived from a mathematical model using total testosterone by LCMSMS, sex hormone binding globulin and albumin.

ESTROGEN, TOTAL, SERUM	209.1 H	60-190 pg/mL	EZ
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The total estrogen assay is not recommended for use in pre-pubertal children.

CBC (INCLUDES DIFF/PLT)			QHO
WHITE BLOOD CELL COUNT	9.5	3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	5.72	4.20-5.80 Million/uL	
HEMOGLOBIN	15.8	13.2-17.1 g/dL	
HEMATOCRIT	49.3	38.5-50.0 %	
MCV	86.2	80.0-100.0 fL	
MCH	27.6	27.0-33.0 pg	
MCHC	32.0	32.0-36.0 g/dL	
RDW	13.7	11.0-15.0 %	
PLATELET COUNT	222	140-400 Thousand/uL	
MPV	10.4	7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	5292	1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	3401	850-3900 cells/uL	
ABSOLUTE MONOCYTES	656	200-950 cells/uL	
ABSOLUTE EOSINOPHILS	133	15-500 cells/uL	
ABSOLUTE BASOPHILS	19	0-200 cells/uL	
NEUTROPHILS	55.7	%	
LYMPHOCYTES	35.8	%	
MONOCYTES	6.9	%	
EOSINOPHILS	1.4	%	
BASOPHILS	0.2	%	
URINALYSIS, COMPLETE			QHO
W/REFLEX TO CULTURE			
COLOR	YELLOW	YELLOW	
APPEARANCE	CLEAR	CLEAR	
SPECIFIC GRAVITY	1.017	1.001-1.035	
PH	6.0	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	NONE SEEN	< OR = 5 /HPF	
RBC	NONE SEEN	< OR = 2 /HPF	
SQUAMOUS EPITHELIAL CELLS	NONE SEEN	< OR = 5 /HPF	
BACTERIA	FEW	NONE SEEN /HPF	
HYALINE CAST	NONE SEEN	NONE SEEN /LPF	
REFLEXIVE URINE CULTURE	NO CULTURE INDICATED		QHO

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Test Name	In Range	Out Of Range	Reference Range	Lab
DHEA SULFATE	141		70-495 mcg/dL	QHO

DHEA-S values fall with advancing age.
For reference, the reference intervals for 31-40 year old patients are:

Male: 106-464 mcg/dL
Female: 23-266 mcg/dL

TESTOSTERONE, TOTAL, MALES (ADULT), IA	388		250-827 ng/dL	QHO
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Men with clinically significant hypogonadal symptoms and testosterone values repeatedly less than approximately 300 ng/dL may benefit from testosterone treatment after adequate risk and benefits counseling.

ESTRADIOL	50 H		< OR = 39 pg/mL	QHO
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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.

PSA, TOTAL	0.4		< OR = 4.0 ng/mL	QHO
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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.



Report Status: Final
LEISER, MATTHEW

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Endocrinology

Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	42	30-100 ng/mL	QHO
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:

AMD QUEST DIAGNOSTICS/NICHOLS CHANTILLY, 14225 NEWBROOK DRIVE, CHANTILLY, VA 20151-2228 Laboratory Director: PATRICK W. MASON,MD,PHD, CLIA: 49D0221801
EZ QUEST DIAGNOSTICS/NICHOLS SJC, 33608 ORTEGA HWY, SAN JUAN CAPISTRANO, CA 92675-2042 Laboratory Director: JON NAKAMOTO, MD PHD, CLIA: 05D0643352
QHO QUEST DIAGNOSTICS HORSHAM, 900 BUSINESS CENTER DRIVE, HORSHAM, PA 19044-3432 Laboratory Director: ANDREW S EDELMAN, MD PHD, CLIA: 39D0204404



Date of Service: 03/14/2017
Specimen: NE682218R

COMMENTS: FASTING: YES

Test Name	Results	Reference Range	Lab
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HDL CHOLESTEROL	28 L	> OR = 40 mg/dL	QHO
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LDL-CHOLESTEROL	94	<130 mg/dL (calc)	QHO
Desirable range <100 mg/dL for patients with CHD or diabetes and <70 mg/dL for diabetic patients with known heart disease.			
CHOL/HDLC RATIO	6.3 H	< OR = 5.0 (calc)	QHO
NON HDL CHOLESTEROL	149	159 mg/dL (calc)	QHO
Target for non-HDL cholesterol is 30 mg/dL higher than LDL cholesterol target.			
COMPREHENSIVE METABOLIC PANEL			QHO
GLUCOSE	88	65-99 mg/dL	
Fasting reference interval			
UREA NITROGEN (BUN)	13	7-25 mg/dL	
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ALKALINE PHOSPHATASE	62	40-115 U/L	
AST	22	10-40 U/L	
ALT	25	9-46 U/L	
URINALYSIS, COMPLETE W/REFLEX TO CULTURE			QHO



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[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]

Test Name	Results	Reference Range	Lab
COLOR	YELLOW	YELLOW	
APPEARANCE	CLEAR	CLEAR	
SPECIFIC GRAVITY	1.017	1.001-1.035	
PH	6.0	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	NONE SEEN	< OR = 5 /HPF	
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SQUAMOUS EPITHELIAL CELLS	NONE SEEN	< OR = 5 /HPF	
BACTERIA	FEW	NONE SEEN /HPF	
HYALINE CAST	NONE SEEN	NONE SEEN /LPF	
CBC (INCLUDES DIFF/PLT)			QHO
WHITE BLOOD CELL COUNT	9.5	3.8-10.8 Thousand/uL	
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ABSOLUTE BASOPHILS	19	0-200 cells/uL	
NEUTROPHILS	55.7	%	
LYMPHOCYTES	35.8	%	
MONOCYTES	6.9	%	
EOSINOPHILS	1.4	%	



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BASOPHILS	0.2	%	
HEMOGLOBIN A1c	5.5	<5.7 % of total Hgb	QHO
<p>According to ADA guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes-2013. Diabetes Care. 2013;36:s11-s66</p> <p>For the purpose of screening for the presence of diabetes</p> <p><5.7% Consistent with the absence of diabetes</p> <p>5.7-6.4% Consistent with increased risk for diabetes (prediabetes)</p> <p>>or=6.5% Consistent with diabetes</p> <p>This assay result is consistent with a decreased risk of diabetes.</p> <p>Currently, no consensus exists for use of hemoglobin A1c for diagnosis of diabetes for children.</p>			
DHEA SULFATE	141	70-495 mcg/dL	QHO
<p>DHEA-S values fall with advancing age. For reference, the reference intervals for 31-40 year old patients are:</p> <p>Male: 106-464 mcg/dL</p> <p>Female: 23-266 mcg/dL</p>			
TESTOSTERONE, TOTAL, MALES (ADULT), IA	388	250-827 ng/dL	QHO
<p>Men with clinically significant hypogonadal symptoms and testosterone values repeatedly less than approximately 300 ng/dL may benefit from testosterone treatment after adequate risk and benefits counseling.</p>			
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PSA, TOTAL	0.4	< OR = 4.0 ng/mL	QHO
This test was performed using the Siemens			



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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.			
VITAMIN D, 25-OH, TOTAL, IA	42	30-100 ng/mL	QHO
<p>Vitamin D Status 25-OH Vitamin D:</p> <p>Deficiency: <20 ng/mL Insufficiency: 20 - 29 ng/mL Optimal: > or = 30 ng/mL</p> <p>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).</p> <p>For more information on this test, go to: http://education.questdiagnostics.com/faq/FAQ163 (This link is being provided for informational/educational purposes only.)</p>			
TSH W/REFLEX TO FT4	1.32	0.40-4.50 mIU/L	QHO
REFLEXIVE URINE CULTURE	NO CULTURE INDICATED		QHO
ESTROGEN, TOTAL, SERUM	209.1 H	60-190 pg/mL	EZ
The total estrogen assay is not recommended for use in pre-pubertal children.			
TESTOSTERONE, FREE	97.6	46.0-224.0 pg/mL	AMD
The concentration of free testosterone is derived from a mathematical model using total testosterone by LCMSMS, sex hormone binding globulin and albumin.			

PERFORMING SITE:

AMD Quest Diagnostics/Nichols Chantilly, 14225 Newbrook Drive, Chantilly, VA 20151-2228 Laboratory Director: Patrick W Mason, M.D., PhD, CLIA: 49D0221801
EZ Quest Diagnostics/Nichols SJC, 33608 Ortega Hwy, San Juan Capistrano, CA 92675-2042 Laboratory Director: Jon Nakamoto, MD, PhD, CLIA: 05D0643352
QHO Quest Diagnostics, 900 Business Center Drive, Horsham, PA 19044-3432 Laboratory Director: Andrew S Edelman, MD PhD, CLIA: 39D0204404

The contents of this laboratory test report are based on tests performed by Quest Diagnostics. The report is NOT an official laboratory report. If you require your official laboratory report, please contact your physician.

These results have been sent to the person that ordered the tests. Your receipt of these results should not be viewed as medical advice and is not meant to replace discussion with your doctor or other healthcare professional.