

Report Status FINAL

Route 5000

House Account SAZ Out of State Provider

630 N. Alvernon Way

Suite 120

Tucson, AZ 85711

**Sonora Quest
Laboratories™**

A Subsidiary of Laboratory Sciences of Arizona

Carrie Lam, MD**Patient Information:****LINDGREN, ERIC M**Account: 33131
ID/MR#: 11858
Patient Lab ID: 0284885944Collected: 02/22/2022 07:05 AM
Received: 02/22/2022 07:08 AM
Reported: 02/23/2022 11:04 AM**Order #: 331315068394 / NL72613533****DOB: 01/11/1983** Age: 39Y-1M-11D

Sex: M Fasting: Yes

Patient Phone: 617-487-2805

ORDER COMMENTS11858
FASTING

TEST	RESULTS	REFERENCE RANGES	UNITS	PL
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HEMATOLOGY**CBC w/ Differential, w/ Platelet**

WBC	6.3	4.0 - 11.0	k/mm3	TC
RBC	5.21	4.30 - 6.00	m/mm3	TC
Hemoglobin	15.6	13.0 - 18.0	g/dL	TC
Hematocrit	48.3	40.0 - 53.0	%	TC
MCV	92.7	78.0 - 100.0	fL	TC
MCH	29.9	27.0 - 34.0	pg	TC
MCHC	32.3	31.0 - 37.0	g/dL	TC
Platelet Count	121 L	130 - 450	k/mm3	TC
RDW(sd)	40.9	38.0 - 49.0	fL	TC
RDW(cv)	11.9	11.0 - 15.0	%	TC
MPV	Cancelled*		fL	TC
Segmented Neutrophils	44.2*		%	TC
Lymphocytes	35.1		%	TC
Monocytes	8.0		%	TC
Eosinophils	12.0		%	TC
Basophils	0.5		%	TC
Absolute Neutrophil	2.78	1.60 - 9.30	k/uL	TC
Absolute Lymphocyte	2.20	0.60 - 5.50	k/uL	TC
Absolute Monocyte	0.50	0.10 - 1.60	k/uL	TC
Absolute Eosinophil	0.75 H	0.00 - 0.70	k/uL	TC
Absolute Basophil	0.03	0.00 - 0.20	k/uL	TC
Immature Granulocytes	0.2		%	TC
Absolute Immature Granulocytes	0.01	0.00 - 0.10	k/uL	TC
NRBC RE, Nucleated Red Blood Cell	0.0	0.0 - 1.0	%	TC

Percent

*MPV: Not measured by the analyzer.

*Segmented
Neutrophils: Automated DiffComment See comment
Checked for clots. None detected.**Erythrocyte Sedimentation Rate**

Erythrocyte Sedimentation Rate <3 ≤15 mm/hr TC

Erythrocyte Sedimentation Rate (ESR) specimens are stable for 4-6 hours at room temperature, and 24 hours if refrigerated. ESR results trend lower with increased specimen age. Consider use of C-reactive protein (CRP) to assess acute phase responses.

LINDGREN, ERIC M Order #: 331315068394 / NL72613533 - FINAL Report

L=Low, H=High, C=Critical Abnormal, CL=Critical Low, CH=Critical High, *=Comment

Distribution #: 514556357-514556357

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Patient Phone: 617-487-2805

CHEMISTRY**TSH, High Sensitivity****5.57 H**

0.45 - 4.50

mU/L

TC

T4 Free Non-Dialysis

1.2

0.8 - 1.7

ng/dL

TC

Vitamin D, 25-Hydroxy, Total

23.6

≥20.0

ng/mL

Vitamin D, 25-OH, Total:

<10 ng/mL Severe Deficiency

10 - 19 ng/mL Mild/Moderate Deficiency

20 - 50 ng/mL Optimum

51 - 150 ng/mL Increased Risk of Hypercalciuria

>150 ng/mL Possible Toxicity

Reference intervals apply to males and females, all ages.

Clinical decision values based on 2011 report by the Institute of Medicine (US).

Testosterone, Free, Total, and Bioavailable (Adult Males)*

Testosterone, Total

526

250 - 840

ng/dL

Testosterone, Bioavailable

191.6

61.0 - 257.0

ng/L

Testosterone, Free

80.0

35.0 - 155.0

pg/mL

*Testosterone, Free,
Total, and Bioavailable
(Adult Males):

Free and bioavailable testosterone was derived using a mass-action equation that employs defined constants for the binding of testosterone to albumin and sex-hormone binding globulin (Clin Chem. 2006; 52(9): 1777-1784).

Comprehensive Metabolic Panel

Glucose

95*

70 - 99

mg/dL

TC

Urea Nitrogen (BUN)**28 H**

7 - 21

mg/dL

TC

Creatinine

1.00

0.60 - 1.50

mg/dL

TC

eGFRcr CKD-EPI

98*

≥60

mL/min/1.73m2

TC

BUN/Creatinine Ratio

28.0

10.0 - 28.0

TC

Sodium

142

135 - 145

mmol/L

TC

Potassium

4.2

3.6 - 5.3

mmol/L

TC

Chloride

107

98 - 108

mmol/L

TC

Carbon Dioxide (CO2)

29

20 - 31

mmol/L

TC

Anion Gap

6

4 - 18

TC

Protein, Total

6.6

6.3 - 8.0

g/dL

TC

Albumin

4.2

3.8 - 5.1

g/dL

TC

Globulin

2.3

1.9 - 3.7

g/dL

TC

Albumin/Globulin Ratio

1.8

1.0 - 2.5

TC

Calcium

9.2

8.7 - 10.4

mg/dL

TC

Alkaline Phosphatase

83

40 - 140

IU/L

TC

Alanine Aminotransferase

27

5 - 60

IU/L

TC

Aspartate Aminotransferase

20

12 - 47

IU/L

TC

Bilirubin, Total

0.5

≤1.3

mg/dL

TC

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Sex: M Fasting: Yes
Patient Phone: 617-487-2805*Glucose: Glucose reference range reflects fasting state.
*eGFRcr CKD-EPI: eGFRcr calculated using the CKD-EPI 2021 equation**Lipid Panel**

Cholesterol	161	≤199	mg/dL	TC
Triglyceride	84	≤149	mg/dL	TC
Cholesterol/HDL Ratio	4.5	≤4.9		TC
HDL Cholesterol	36 L	≥40	mg/dL	TC
Non-HDL Cholesterol	125	≤129	mg/dL	TC
LDL Cholesterol, Calculated	106 H *	≤99	mg/dL	TC
VLDL Cholesterol	19	≤29	mg/dL	TC

*LDL Cholesterol, Calculated: LDL-C is calculated by using the Martin-Hopkins equation. (JAMA. 2013;310(19):2061-2068)
For moderately high risk and high risk cardiac patients, reference levels of <100 mg/dL and <70 mg/dL, respectively, should be considered. Circulation 2004; 110:227-239.**Hemoglobin A1c With eAG***

Hemoglobin A1c	5.7 H *	≤5.6	%	TC
Estimated Average Glucose (eAG)	117	Not Established		TC

*Hemoglobin A1c: The American Diabetes Association (ADA) guidelines for interpreting Hemoglobin A1c are as follows:
Non-Diabetic patient: ≤5.6%
Increased risk for future Diabetes: 5.7-6.4%
ADA diagnostic criteria for Diabetes: ≥6.5%Values for patients with Diabetes:
Meets ADA's recommended goal for therapy: <7.0%
Exceeds ADA's recommended goal: 7.0-8.0%
ADA recommends reevaluation of therapy: >8.0%

*Hemoglobin A1c With eAG: If the presence of a hemoglobin variant is suspected, do not use % HbA1c results for diagnosis of diabetes mellitus.

In uncontrolled diabetics, high levels of Hemoglobin F (Hb F) may be present. Presence of Hb F greater than 7% of total may result in lower than expected % HbA1c.

Any cause that shortens erythrocyte survival or decreases mean erythrocyte age may reduce expected % HbA1c values even in the presence of elevated average blood glucose. Causes may include hemolytic disease, homozygous sickle cell trait, pregnancy, and recent significant/chronic blood loss. In addition, recent blood transfusions can alter expected % HbA1c values.

Vitamin B12 and Folate

Vitamin B12	754	232 - 1245	pg/mL	TC
Folate	12.0*	≥4.0	ng/mL	TC

*Folate: Serum for folate determinations should be collected as a fasting test.

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Tests Ordered: Lipid Panel; CBC w/ Differential, w/ Platelet; Erythrocyte Sedimentation Rate; TSH, High Sensitivity; Vitamin B12 and Folate; T4 Free Non-Dialysis; Hemoglobin A1c With eAG; Comprehensive Metabolic Panel; Vitamin D, 25-Hydroxy, Total; Testosterone, Free, Total, and Bioavailable (Adult Males)

Values Outside of Reference Range			
TEST	RESULTS	REFERENCE RANGES	UNITS
Platelet Count	121 L	130 - 450	k/mm3
Absolute Eosinophil	0.75 H	0.00 - 0.70	k/uL
TSH, High Sensitivity	5.57 H	0.45 - 4.50	mU/L
Urea Nitrogen (BUN)	28 H	7 - 21	mg/dL
HDL Cholesterol	36 L	≥40	mg/dL
LDL Cholesterol, Calculated	106 H	≤99	mg/dL
Hemoglobin A1c	5.7 H	≤5.6	%

Values listed above may not include all results considered abnormal for this patient (e.g., text-only results, such as those for some pathology/cytology specimens, and results for analytes without established reference ranges will not appear). Always review the entire patient report and correlate all results with the patient's clinical condition.

Unless otherwise noted, testing performed by: Sonora Quest Laboratories, 424 S 56th St, Phoenix, AZ 85034 800.766.6721

Testing noted as TC performed by: Sonora Quest Laboratories of Tucson, 630 N Alvernon Way, Tucson, AZ 85711 800.266.8101

End of Report**LINDGREN, ERIC M Order #: 331315068394 / NL72613533 - FINAL Report**

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