

Report Status FINAL

Route 5000 Ordered by:

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**

Account: 33131

ID/MR#: 11858

Patient Lab ID: 0284885944

Collected: 07/21/2023 02:36 PM

Received: 07/21/2023 02:39 PM

Reported: 07/26/2023 11:36 AM

Order #: 331315074860 / NL90289096**DOB: 01/11/1983** Age: 40Y-6M-10D

Sex: M Fasting: No

Patient Phone: 617-487-2805

ORDER COMMENTS

11858

AN UPDATE OR CORRECTION HAS BEEN MADE TO NAME

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

WBC	4.6	4.0 - 11.0	k/mm3	TC
RBC	5.03	4.30 - 6.00	m/mm3	TC
Hemoglobin	15.5	13.0 - 18.0	g/dL	TC
Hematocrit	46.2	40.0 - 53.0	%	TC
MCV	91.8	78.0 - 100.0	fL	TC
MCH	30.8	27.0 - 34.0	pg	TC
MCHC	33.5	31.0 - 37.0	g/dL	TC
Platelet Count	140	130 - 450	k/mm3	TC
RDW(sd)	41.3	38.0 - 49.0	fL	TC
RDW(cv)	12.2	11.0 - 15.0	%	TC
MPV	14.8 H	7.5 - 14.0	fL	TC
Segmented Neutrophils	62.3*		%	TC
Lymphocytes	27.7		%	TC
Monocytes	6.1		%	TC
Eosinophils	2.8		%	TC
Basophils	0.7		%	TC
Absolute Neutrophil	2.86	1.60 - 9.30	k/uL	TC
Absolute Lymphocyte	1.27	0.60 - 5.50	k/uL	TC
Absolute Monocyte	0.28	0.10 - 1.60	k/uL	TC
Absolute Eosinophil	0.13	0.00 - 0.70	k/uL	TC
Absolute Basophil	0.03	0.00 - 0.20	k/uL	TC
Immature Granulocytes	0.4		%	TC
Absolute Immature Granulocytes	0.02	0.00 - 0.10	k/uL	TC
NRBC RE, Nucleated Red Blood Cell	0.0	0.0 - 1.0	%	TC

Percent

*Segmented

Automated Diff

Neutrophils:

Erythrocyte Sedimentation Rate

Erythrocyte Sedimentation Rate	<3	≤15	mm/hr	TC
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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.

CHEMISTRY**LINDGREN, ERIC Order #: 331315074860 / NL90289096 - FINAL Report**

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

Distribution #: 639254757-639254757



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TSH, High Sensitivity	1.87	0.27 - 4.20	mU/L	TC
T4 Free Non-Dialysis	1.3	0.8 - 1.7	ng/dL	TC
Vitamin D, 25-Hydroxy, Total	31.0	≥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	403	240 - 1022	ng/dL	TC
Testosterone, Bioavailable	138.6	61.0 - 257.0	ng/L	TC
Testosterone, Free	55.5	35.0 - 155.0	pg/mL	TC

*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	83*	70 - 99	mg/dL	TC
Urea Nitrogen (BUN)	31 H	7 - 21	mg/dL	TC
Creatinine	0.87	0.68 - 1.37	mg/dL	TC
eGFRcr CKD-EPI	111*	≥60	mL/min/1.73m2	TC
BUN/Creatinine Ratio	35.6 H	10.0 - 28.0		TC
Sodium	144	135 - 145	mmol/L	TC
Potassium	4.4	3.6 - 5.3	mmol/L	TC
Chloride	106	98 - 108	mmol/L	TC
Carbon Dioxide (CO2)	29	20 - 31	mmol/L	TC
Anion Gap	10	4 - 18		TC
Protein, Total	6.8	6.3 - 8.0	g/dL	TC
Albumin	4.7	3.8 - 5.1	g/dL	TC
Globulin	2.1	1.7 - 3.3	g/dL	TC
Albumin/Globulin Ratio	2.2	1.3 - 2.7		TC
Calcium	9.8	8.7 - 10.4	mg/dL	TC
Alkaline Phosphatase	107	40 - 140	IU/L	TC
Alanine Aminotransferase	30	5 - 60	IU/L	TC
Aspartate Aminotransferase	21	12 - 47	IU/L	TC
Bilirubin, Total	0.8	≤1.3	mg/dL	TC

*Glucose: Glucose reference range reflects fasting state.

*eGFRcr CKD-EPI: eGFRcr calculated using the CKD-EPI 2021 equation

Lipid Panel**LINDGREN, ERIC Order #: 331315074860 / NL90289096 - FINAL Report**

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Cholesterol	171	≤199	mg/dL	TC
Triglyceride	61	≤149	mg/dL	TC
Cholesterol/HDL Ratio	3.7	≤4.9		TC
HDL Cholesterol	46	≥40	mg/dL	TC
Non-HDL Cholesterol	125	≤129	mg/dL	TC
LDL Cholesterol, Calculated	111 H *	≤99	mg/dL	TC
VLDL Cholesterol	14	≤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	899	232 - 1245	pg/mL	TC
Folate	8.9*	≥4.0	ng/mL	TC

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

IGF-1, LC/MS

IGF-1, LC/MS	255	52-328	ng/mL	NL
Z-Score (Male)	1.3*	-2.0 - +2.0	SD	NL

*Z-Score (Male): This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan

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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.

Tests Ordered: Lipid Panel; CBC w/ Differential, w/ Platelet; Erythrocyte Sedimentation Rate; TSH, High Sensitivity; Vitamin B12 and Folate; T4 Free Non-Dialysis; IGF-1, LC/MS; 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
MPV	14.8 H	7.5 - 14.0	fL
Urea Nitrogen (BUN)	31 H	7 - 21	mg/dL
BUN/Creatinine Ratio	35.6 H	10.0 - 28.0	
LDL Cholesterol, Calculated	111 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

Testing noted as NL performed by: Quest Diagnostics Nichols Institute (SJC), 33608 Ortega Hwy, San Juan Capistrano, CA 92690 800.642.4657

End of Report**LINDGREN, ERIC Order #: 331315074860 / NL90289096 - FINAL Report**

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