



# Intermountain<sup>SM</sup> Laboratory Services

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To: 8019611135

Date: 11:54 11/22/2023

From:

Pages: 8

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## INTERMOUNTAIN LABORATORIES - OUT PATIENT LABORATORIES

## =====

## FAX LAB REPORT

## =====

## MESSAGE

Reports on FAX thermal paper fade with time. If this report is to be a permanent record, a photocopy must be made.

INTERMOUNTAIN LABORATORIES - OUT PATIENT LABORATORIES  
389 South 900 East, Salt Lake City, UT 84102

MILLER,NATALIYA Z

DOB: 02201982

41Y F

Hosp #: 647504310

SL Clinic Phleb 1

Bill #: 1264154478

Home Phone #: (801)961-1138

Dr: UNAVAILABLE,PHYSICIAN,MD

H5906364 COLL: 11/16/2023 18:02 REC: 11/16/2023 18:12 PHYS: UNAVAILABLE,PHYSICIAN,MD

DHEA Sulfate, Serum 159 [75-410] ug/dL {IM}

## ESTRADIOL

Estradiol &lt;25 [&lt;509] pg/mL {IM}

ESTRAD Comment See Comments {IM}

(NOTE)

## INTERPRETATION OF ESTRADIOL TESTING (pg/mL):

Adult

Male: &lt;=77

Female:

Follicular 39-189

Mid-Cycle Peak 94-508

Luteal Phase 48-309

Post-menopausal &lt;=41

- -

Source: Manufacturer's Assay Information Sheet

- -

Result may be falsely elevated by fulvestrant (Faslodex).  
Estradiol in patients receiving this medication should be  
measured by mass spectrometry. Order code ESTMCA, Estradiol, by  
tandem mass spectrometry for these patients as well as for Males,  
Children and Postmenopausal Women.

## FOLLICLE STIMULATING HORMONE

Follicle-Stimulating Hormone 2.4 mIU/mL {OP}

FSH Comment See Comments {OP}

(NOTE)

## INTERPRETATION OF ADULT FEMALE FSH (mIU/mL):

Follicular Phase 3.0-8.1

Mid-Cycle Peak 2.6-16.7

Luteal Phase 1.4-5.5

Post-menopausal 26.7-133.4

- -

Source: Abbott Assay Information Sheet 11/09

## LUTEINIZING HORMONE (LH)

Luteinizing Hormone (LH) 0.3 mIU/mL {OP}

LH Comment See Comments {OP}

(NOTE)

## INTERPRETATION OF ADULT FEMALE LH (mIU/mL):

Follicular 1.8-11.8

Mid-Cycle Peak 7.6-89.1

Luteal 0.6-14.0

Post-menopausal 5.2-62.0

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LUTEINIZING HORMONE (LH) (CONTINUED)

- -

Source: Abbott Assay Information Sheet 12/10

Sex Hormone Binding Globulin 124 [18-178] nmol/L {IM}

MISCELLANEOUS TEST

Name of test TESTOSTERONE FREE AND TOTAL BY ED LC MSMS FREE AND LC MSMS {OP}  
 TOTAL ADULT MALES

Corrected on 11/16 AT 1801: Previously reported as  
 TESTOSTERONE FREE AND TOTAL BY ED/LCMS

Result: Pending  
 Performing Lab ARUP {OP}  
 Source SERUM {OP}

{IM} = Performed at Intermountain Central Laboratory, Murray, Utah

{OP} = Performed at Salt Lake Clinic, Salt Lake City, Utah

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F5002655 COLL: 11/17/2023 10:00 REC: 11/17/2023 10:18 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 888-539-8781 on 11/17/23 at 1533 NC

Bilirubin, Direct 0.2 [0.0-0.5] mg/dL {OP}

Bilirubin, Indirect 0.3 [0.2-1.3] mg/dL {OP}

## COMPREHENSIVE METABOLIC PANEL

Sodium	140	[137-146]	mmol/L	{OP}
Potassium	4.6	[3.5-5.0]	mmol/L	{OP}
Chloride	108	[102-111]	mmol/L	{OP}
CO2	25	[19-30]	mmol/L	{OP}
Anion Gap (Na Cl CO2)	7	[3-16]	mmol/L	{OP}
Glucose	92	[65-99]	mg/dL	{OP}
BUN	11	[8-20]	mg/dL	{OP}
Creatinine	0.68	[0.60-1.10]	mg/dL	{OP}
Creatinine GFR	113	[>60]	mL/min/1.73 sq m	{OP}
Calcium	8.9	[8.4-10.4]	mg/dL	{OP}
Protein, Total	6.6	[6.0-8.4]	g/dL	{OP}
Albumin	3.9	[3.5-5.2]	g/dL	{OP}
Bilirubin, Total	0.5	[0.2-1.3]	mg/dL	{OP}
Alkaline Phosphatase	45	[40-120]	U/L	{OP}
ALT (SGPT)	25	[0-40]	U/L	{OP}
AST (SGOT)	24	[9-40]	U/L	{OP}
Comment:	See Comments			{OP}

(NOTE)

## INTERPRETATION OF ESTIMATED GFR:

Estimated using CKD-EPI 2021 equation

(https://www.kidney.org/professionals/kdoqi/gfr\_calculator)

Chronic Kidney Disease less than 60 mL/min/1.73 sq m

Kidney failure less than 15 mL/min/1.73 sq m

CRP (C-Reactive Protein) 0.6 [0.0-1.5] mg/dL {OP}

This test is NOT to be used for cardiovascular risk  
assessment. Order separate hsCRP assay.

Free T4 1.04 [0.74-1.46] ng/dL {OP}

## PROGESTERONE

Progesterone 0.3 ng/mL {IM}

Comments: See Comments {IM}

(NOTE)

## INTERPRETATION OF PROGESTERONE:

Reference Ranges:

Adult

Male: &lt;0.1-0.2

Normal Menstruating Female:

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## PROGESTERONE (CONTINUED)

Follicular	<0.1-0.3
Luteal	1.2-15.9*
Postmenopausal Female:	<0.1-0.2
Pregnant Female:	
First Trimester	2.8-147.3
Second Trimester	22.5-95.3
Third Trimester	27.9-242.5

\* Luteal phase represents the central 95% interval  
of all values.

## PROLACTIN

Prolactin	6.3	[3.6-26.5]	ng/mL	{ IM }
PROL Comment	See Comments			{ IM }
	(NOTE)			

## INTERPRETATION OF PROLACTIN:

Supplementary Reference Ranges (ng/mL):

Tanner Stage	Males	Females
1	<10.1	3.6-12.0
2-3	<6.1	2.6-18.0
4-5	2.8-11.0	3.2-20.0
Third Trimester		95-473

Total T3	L 75	[85-160]	ng/dL	{ IM }
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## THYROID STIMULATING HORMONE

Thyroid Stimulating Hormone	1.74	[0.46-4.88]	uIU/mL	{ OP }
	This is a 3rd generation TSH assay.			

## VITAMIN D, 25-HYDROXY

Vitamin D, 25-Hydroxy	H 123	[30-80]	ng/mL	{ IM }
Comment:	See Comments			{ IM }
	(NOTE)			

## INTERPRETATION OF 25-HYDROXY VITAMIN D

Reference Intervals:

Deficiency	: <20 ng/mL
Insufficiency	: 20-29 ng/mL
Optimum Level	: 30-80 ng/mL
Possible Toxicity	: >80 ng/mL

Interpretive Data: When testing samples from patients whose  
predominant form of vitamin D is vitamin D2, such as patients

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## VITAMIN D, 25-HYDROXY (CONTINUED)

receiving vitamin D2 supplementation, results that are subtherapeutic should be confirmed with another method, such as LC-MS/MS, before being used for patient management.

Homocysteine	4	[0-11]	umol/L	{IM}
LIPID PROFILE				
Patient Fasting?	Yes			{OP}
	15 h			
Cholesterol, Total	192	[147-199]	mg/dL	{OP}
Triglycerides	70	[45-149]	mg/dL	{OP}
HDL Cholesterol	48	[40-96]	mg/dL	{OP}
Non-HDL Cholesterol	H 144	[<130]	mg/dL	{OP}
VLDL Cholesterol (Calc.)	14	[9-29]	mg/dL	{OP}
LDL Cholesterol (Calc.)	H 130	[<100]	mg/dL	{OP}
Total Cholesterol:HDL Ratio	4.0	[<4.5]		{OP}
LDL Comment	See Comments			{OP}

## (NOTE)

## INTERPRETIVE INFORMATION: LDL Cholesterol

The Intermountain Primary Care Clinical Program recommends that for most patients without known atherosclerosis or risk-equivalents, use "Pooled Cohort Equation" recommendations:

<http://tools.acc.org/ASCVD-Risk-Estimator/>

For most patients with known coronary artery disease, atherosclerosis, diabetes mellitus, or LDL >190, target LDL <70.

(See "Intermountain Cardiovascular Risk and Cholesterol Guideline.")

WBC	5.9	[3.6-10.6]	K/uL	{OP}
RBC	4.35	[4.20-5.40]	M/uL	{OP}
Hemoglobin	13.2	[12.0-16.0]	g/dL	{OP}
Hematocrit	39.7	[36.0-46.0]	%	{OP}
MCV	91.3	[80.0-100.0]	fL	{OP}
MCH	30.3	[26.0-34.0]	pg	{OP}
MCHC	33.2	[32.0-36.0]	g/dL	{OP}
RDW SD	43.7	[36.7-47.2]	fL	{OP}
RDW	13.0	[11.3-15.6]	%	{OP}
Platelets	267	[150-400]	K/uL	{OP}
MPV	10.9	[8.6-12.4]	fL	{OP}

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## CBC (CONTINUED)

Nucleated RBCs Automated 0.0 /100 WBCs {OP}

## DIFFERENTIAL

Differential type	Auto			{OP}
Neutrophils	56.5	%		{OP}
Lymphocytes	32.4	%		{OP}
Monocytes	8.2	%		{OP}
Eosinophils	1.7	%		{OP}
Basophils	0.7	%		{OP}
Immature Granulocytes	0.5	[0.0-0.5]	%	{OP}
Neutrophils, Absolute	3.3	[1.8-6.8]	K/uL	{OP}
Lymphs, Absolute	1.9	[1.2-3.4]	K/uL	{OP}
Monocytes, Absolute	0.5	[0.2-0.9]	K/uL	{OP}
Eosinophils, Abs Count	0.1	[0.0-0.5]	K/uL	{OP}
Basophils, Absolute	0.0	[0.0-0.1]	K/uL	{OP}
Immature Granulocyte, Absolute	0.03	[0.00-0.04]	K/uL	{OP}

F5002675 COLL: 11/17/2023 10:00 REC: 11/17/2023 10:21 PHYS: UNAVAILABLE, PHYSICIAN, MD

faxed to number requested at 1153 11-17-23 dw

## HEPATIC FUNCTION PANEL

Protein, Total	6.7	[6.0-8.4]	g/dL	{OP}
Albumin	3.9	[3.5-5.2]	g/dL	{OP}
Bilirubin, Total	0.6	[0.2-1.3]	mg/dL	{OP}
Bilirubin, Direct	0.2	[0.0-0.5]	mg/dL	{OP}
Bilirubin, Indirect	0.4	[0.2-1.3]	mg/dL	{OP}
Alkaline Phosphatase	45	[40-120]	U/L	{OP}
ALT (SGPT)	23	[0-40]	U/L	{OP}
AST (SGOT)	22	[9-40]	U/L	{OP}

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