Fri Feb 9 15:52:08 2024 Page 3 of 12 INTERIM REPORT

02/09/2024 15:51

{OP}

{OP}

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

MILLER, NATALIYA Z

DOB: 02201982

41Y F

Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250596 COLL: 02/02/2024 17:45 REC: 02/02/2024 18:19 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/07/24 at 1341 JC

MISCELLANEOUS TEST

Name of test Result: MERCURY URINE RANDOM ARUP 2011481

See Comments

(NOTE)

Copy to clipboard

ARUP LABORATORIES | 800-522-2787 | aruplab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Chief Medical Officer

Patient Report | FINAL

Patient:

MILLER, NATALIYA Z

DOB:

2/20/1982

Sex:

Female

Patient Identifiers:

1ARUP0015855638, 647504310

Visit Number (FIN):

QDG11XCMJ89MEPY

Collection Date:

2/2/2024 5:45:00 PM

PHYSICIAN:

MACK, SONJA

Mercury, Random Urine ARUP test code 2011481

Creatinine, Urine - per volume 174 mg/dL

Mercury, Urine - per volume

<2.5 ug/L (Ref Interval: 0.0-5.0)

INTERPRETIVE INFORMATION: Mercury, Urine

Urinary mercury levels predominantly reflect acute or chronic elemental or inorganic mercury exposure. Urine concentrations in unexposed individuals are typically less than 10 ug/L. 24 hour urine concentrations of 30 to 100 ug/L may be associated with subclinical neuropsychiatric symptoms and tremors. Concentrations greater than 100 ug/L can be associated with overt neuropsychiatric disturbances and tremors. Urine mercury levels may be useful in monitoring chelation therapy.

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15:51

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Faxed to 858-657-1818 on 02/07/24 at 1341 JC

MISCELLANEOUS TEST (CONTINUED)

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Mercury, Urine - ratio to CRT

Not Applicable ug/g CRT (Ref Interval:

0.0 - 20.0)

Unable to accurately calculate the creatinine normalized result due to a low per volume result.

\_\_\_\_\_\_\_

Performing Lab Source

Test performed at ARUP Laboratory

Urine

{OP}

{OP}

F5250579 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:14 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 1055 MW

Vitamin B12	н	1583	[345-1485]	pg/mL		{0
COMPREHENSIVE METABOLIC PANEL Sodium Potassium Chloride CO2 Anion Gap (Na Cl CO2) Glucose BUN Creatinine Creatinine Creatinine GFR Calcium Protein, Total Albumin Bilirubin, Total	н	139 4.2 107 24 8 105 16 0.87 86 8.9 6.9 4.3 0.4	[137-146] [3.5-5.0] [102-111] [19-30] [3-16] [65-99] [8-20] [0.60-1.10] [>60] [8.4-10.4] [6.0-8.4] [3.5-5.2] [0.2-1.3]	mmol/L mmol/L mmol/L mmol/L mmol/L mg/dL mg/dL mg/dL mg/dL md/min/1.73 sq m mg/dL g/dL g/dL g/dL mg/dL	{OP} {OP} {OP} {OP} {OP} {OP} {OP} {OP}	{0

MILLER, NATALIYA Z

CONTINUED

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INTERIM REPORT 02/09/2024 15:51

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

MILLER, NATALIYA Z

DOB: 02201982

41Y F

Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250579 COLL: 02/02/2024 18:	00 REC: 02/02/2024 18:14	PHYS: UNAVAILABLE,	PHYSICIAN, MD	
Faxed to 858-657-1818 on 02/0	04/24 at 1055 MW			
COMPREHENSIVE METABOLIC PANEL	(CONTINUED)			(07)
Alkaline Phosphatase	42	[40-120]	U/L	{OP}
ALT (SGPT)	27	[0-40]	U/L	{OP}
AST (SGOT)	28	[9-40]	U/L	{OP} {OP}
Comment:	See Comments (NOTE)			{OP}
INTERPRETATION OF ES	STIMATED GFR:			
Estimated using CKD-				
(https://www.kidney.	org/professionals/kdoqi/	gfr_calculator)		
	ase less than 60 mL/min/1			
Kidney failure less	than 15 mL/min/1.73 sq m			
Ferritin	80	[10-200]	ng/mL	{OP}
Free T4	0.95	[0.74-1.46]	ng/dL	{OP}
Total T3	L 62	[80-200]	ng/dL	[]
Free T3	Request Credited Order error			
CBC				
WBC	6.9	[3.6-10.6]	K/uL	{OP}
RBC	4.41	[4.20-5.40]	M/uL	{OP}
Hemoglobin	12.9	[12.0-16.0]	g/dL	{OP}
Hematocrit	37.8	[36.0-46.0] [80.0-100.0]	% fL	{OP}
MCV	85.7 29.3	[26.0-34.0]		{OP} {OP}
MCH	34.1	[32.0-36.0]	g/dL pg	{OP}
MCHC	40.1	[36.7-47.2]	fL	(OP)
RDW SD	12.9	[11.3-15.6]	8	(OP)
RDW	279	[150-400]	K/uL	{OP}
Platelets MPV	10.6	[8.6-12.4]	fL	{OP}
Nucleated RBCs Automated	0.0	(000 000)	/100 WBCs	{OP}
	***		,	
DIFFERENTIAL	36.0			(OB)
Differential type	Auto		9	{OP} {OP}
Neutrophils	51.1		6 6	(OP)
Lymphocytes	41.8		8	(OP)
Monocytes	4.4 2.0		8	{OP}
Eosinophils	0.6		8	(OP)
Basophils Immature Granulocytes	0.1	[0.0-0.5]	8	(OP)
Immacure Granurocyces	0.1	[0.0 0.0]	-	,

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

15:51

MILLER, NATALIYA Z

DOB: 02201982

Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250579 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:14 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 1055 MW

DIFFERENTIAL (CONTINUED)				
Neutrophils, Absolute	3.5	[1.8-6.8]	K/uL	{ OP }
Lymphs, Absolute	2.9	[1.2-3.4]	K/uL	{OP}
Monocytes, Absolute	0.3	[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, Absolut	e			{ OP }
	0.01	[0.00-0.04]	K/uL	

Mercury, Whole Blood

H 12.6

Reference range: <=10.0

Unit: ug/L (NOTE)

INTERPRETIVE INFORMATION: Mercury, Blood

Elevated results may be due to skin or collection-related contamination, including the use of a noncertified metal-free collection/transport tube. If contamination concerns exist due to elevated levels of blood mercury, confirmation with a second specimen collected in a certified metal-free tube is recommended. Blood mercury levels predominantly reflect recent exposure and are most useful in the diagnosis of acute poisoning as blood mercury concentrations rise sharply and fall quickly over several days after ingestion. Blood concentrations in unexposed individuals rarely exceed 20 ug/L. The provided reference interval relates to inorganic mercury concentrations. Dietary and non-occupational exposure to organic mercury forms may contribute to an elevated total mercury result. Clinical presentation after toxic exposure to organic mercury may include dysarthria, ataxia and constricted vision fields with mercury blood concentrations from 20 to 50 ug/L.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Performed By: ARUP Laboratories

500 Chipeta Way

Salt Lake City, UT 84108

Laboratory Director: Jonathan R. Genzen, MD, PhD

CLIA Number: 46D0523979

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02/09/2024 15:51

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(AR)

(AR)

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

MILLER, NATALIYA Z

DOB: 02201982

41Y F

Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250605 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:16 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/06/24 at 2153 RT

TESTOSTERONE, FEMALES/CHILDREN, BIO & SHBG

Testosterone

12

Reference range: 9 to 55

Unit: ng/dL

(NOTE)

REFERENCE INTERVAL: Testosterone by Mass Spec

Females

Premenopausal 9-55 ng/dL Postmenopausal 5-32 ng/dL

INTERPRETIVE INFORMATION: Testosterone by Mass Spec

Free or bioavailable testosterone measurements may provide

supportive information.

For individuals on testosterone-suppressing hormone therapies (e.g., antiandrogens or estrogens), refer to cisgender female reference intervals. For a complete set of all established reference intervals, refer to ltd.aruplab.com/Tests/Pub/0081058. This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for

clinical purposes.

Sex Hormone Binding Globulin H 145

Reference range: 25 to 122

Unit: nmol/L

(NOTE)

REFERENCE INTERVAL: Sex Hormone Binding Globulin Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Testosterone, Free

L 0.7

Reference range: 1.1 to 5.8

Unit: pg/mL

(NOTE)

REFERENCE INTERVAL: Testosterone, Free by Mass Spec

Females

Postmenopausal: 0.6 - 3.8 pg/mL

INTERPRETIVE INFORMATION: Testosterone, Free by Mass Spec Free testosterone concentration is calculated using total testosterone (measured by mass spectrometry) and the binding constant of testosterone and sex hormone-binding globulin (SHBG). For individuals on testosterone-suppressing hormone therapies (e.g., antiandrogens or estrogens), refer to cisgender female reference intervals. For a complete set of all established

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DOB: 02201982

41Y 1

Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250605 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:16 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/06/24 at 2153 RT

TESTOSTERONE, FEMALES/CHILDREN, BIO & SHBG (CONTINUED)

reference intervals, refer to ltd.aruplab.com/Tests/Pub/0081059. This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Performed By: ARUP Laboratories

500 Chipeta Way

Salt Lake City, UT 84108

Laboratory Director: Jonathan R. Genzen, MD, PhD

CLIA Number: 46D0523979

Testosterone, Bioavailable L 1.9

{AR}

Reference range: 2.8 to 16.5 Unit: ng/dL

(NOTE)

REFERENCE INTERVAL: Testosterone, Bioavailable by Mass Spec

Females:

Postmenopausal: 1.5 - 9.4 ng/dL

INTERPRETIVE INFORMATION: Testosterone, Bioavailable by Mass Spec Bioavailable testosterone concentration is calculated using total testosterone (measured by mass spectrometry) and the binding constant of testosterone and sex hormone-binding globulin (SHBG) and/or albumin.

For individuals on testosterone-suppressing hormone therapies (e.g., antiandrogens or estrogens), refer to cisgender female reference intervals. For a complete set of all established reference intervals, refer to ltd.aruplab.com/Tests/Pub/0081057.

Comment

Specimens from males <14 years of age and ALL females are referred to a reference lab for an improved test methodology (LCMS).

F5250648 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:16 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 1056 JK

CRP (C-Reactive Protein)

<0.1 [0.0-1.5] mg/dI

This test is NOT to be used for cardiovascular risk

assessment. Order separate hsCRP assay.

FOLLICLE STIMULATING HORMONE

MILLER, NATALIYA Z

CONTINUED

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{OP}

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02/09/2024

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

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DOB: 02201982

41Y F Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250648 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:16 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 1056 JK

FOLLICLE STIMULATING HORMONE

(CONTINUED)

Follicle-Stimulating Hormone FSH Comment

7.8

See Comments

mIU/mL {OP}

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

Follicular Phase

3.0-8.1 2.6-16.7

Mid-Cycle Peak

1.4-5.5

Luteal Phase

Post-menopausal 26.7-133.4

LUTEINIZING HORMONE (LH)

Luteinizing Hormone (LH)

2.2

See Comments

mU/mL

{OP} {OP}

{OP}

LH Comment

(NOTE)

INTERPRETATION OF ADULT FEMALE LH (mIU/mL):

Follicular

1.8-11.8 7.6-89.1

Mid-Cycle Peak

0.6-14.0

Luteal Post-menopausal

5.2-62.0

Source: Abbott Assay Information Sheet 12/10

PROGESTERONE

Progesterone

0.2

ng/mL

{IM} { IM }

Comments:

See Comments

(NOTE)

INTERPRETATION OF PROGESTERONE:

Reference Ranges:

Adult Male:

<0.2 ng/mL

Normal Menstruating Female:

Follicular

 $\leq 0.2 \text{ ng/mL}$ 

Ovulation

 $\leq 4.1 \text{ ng/mL}$ 

Luteal

4.1-14.5\* ng/mL

<0.2 ng/mL

Postmenopausal Female:

Pregnant Female:

First Trimester

11.0-44.3 ng/mL 25.4-83.4 ng/mL

Second Trimester Third Trimester

58.7.0-214.0 ng/mL

\* Luteal phase represents the central 90% interval of all values.

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02/09/2024

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DOB: 02201982

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Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250648 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:16 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 1056 JK

PROLACTIN

Prolactin

11.9

[4.8-23.3]ng/mL {MI}

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	r	95-473

THYROID STIMULATING HORMONE

[0.27 - 4.20]uIU/mL {MI} Thyroid Stimulating Hormone 3.84

This is a 3rd generation TSH assay.

VITAMIN D, 25-HYDROXY

[30-80] ng/mL {IM} 50 Vitamin D, 25-Hydroxy See Comments

Comment:

(NOTE)

{IM}

INTERPRETATION OF 25-HYDROXY VITAMIN D

Reference Intervals:

<=20 ng/mL Deficiency : <=20 ng/mL : 21-29 ng/mL Insufficiency : 30-80 ng/mL Optimum Level Possible Toxicity : >80 ng/mL

This assay accurately quantifies the sum of vitamin D3,

25-Hydroxy and vitamin D2, 25-Hydroxy.

F5250649 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:18 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 0827 KG

7 [0-15]umol/L { IM} Homocysteine

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02/09/2024 15:51

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DOB: 02201982

Hosp #: 647504310 Bill #: 1266159055 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

F5250659 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:18 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 0837 KG

ESTRADIOL

Estradiol

<25

pg/mL

{ IM}

ESTRAD Comment

See Comments

{ IM }

(NOTE)

INTERPRETATION OF ESTRADIOL TESTING (pg/mL):

Adult

Female Postmenopause:

Follicular

30.9-90.4

Ovulaltion

60.4-533.0

Luteal

60.4-232.0

Pregnant Women

Follicular

154.0 - 3243.0

Ovulaltion

1561.0 - 21280.0

Luteal

8525.0 - >30000.0

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.

Testing performed on Roche Cobas Methodology.

F5250708 COLL: 02/02/2024 18:00 REC: 02/02/2024 18:17 PHYS: UNAVAILABLE, PHYSICIAN, MD

Faxed to 858-657-1818 on 02/04/24 at 0837 KG

DHEA Sulfate, Serum

128

[61-337]

ug/dL

{ IM }

- {AR} = Performed at ARUP Laboratories, Salt Lake City, Utah
- {IM} = Performed at Intermountain Central Laboratory, Murray, Utah
- {OP} = Performed at Salt Lake Clinic, Salt Lake City, Utah

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02/09/2024 15:51

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

MILLER, NATALIYA Z

DOB: 02201982

41Y F

Hosp #: 647504310 Bill #: 1266226207 SL Clinic Phleb 1

Home Phone #: (801)961-1138

Dr: UNAVAILABLE, PHYSICIAN, MD

3 REC: 02/06/202	4 11:14 PHYS: UNAVAILABI	E, PHYSICIAN, MD	
//24 at 1115 LP			
121	[37-145]	ug/dL	{OP}
Yes			{OP}
16 h			
191	[147-199]	mg/dL	{OP}
80	[45-149]	mg/dL	{OP}
65	[40-96]	mg/dL	{OP}
126	[<130]	mg/dL	{OP}
16	[9-29]	mg/dL	{OP}
H 110	[<100]	mg/dL	{
2.9	[<4.5]		{ OP }
See Comments			{ OP }
(NOTE)			
	7/24 at 1115 LP  121  Yes 16 h 191 80 65 126 16 H 110 2.9 See Comments	7/24 at 1115 LP  121 [37-145]  Yes 16 h 191 [147-199] 80 [45-149] 65 [40-96] 126 [<130] 16 [9-29] H 110 [<100] 2.9 See Comments	Yes 16 h 191 [147-199] mg/dL 80 [45-149] mg/dL 65 [40-96] mg/dL 126 [<130] mg/dL 16 [9-29] mg/dL H 110 [<100] mg/dL 2.9 [<4.5] See Comments

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.")

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