



3611 14TH AVE SUITE 102
 BROOKLYN, NY 11218-3750
 Tel. (718)851-5773 Fax. (718)851-3919
 Laboratory Director: Samar Roy, PhD
 CLIA#: 33D0985206



Client: [Redacted] 2394
 [Redacted]
 [Redacted]
 Phys: [Redacted] Fax: [Redacted]

Patient: [Redacted]
 [Redacted]
 [Redacted]
 DOB: [Redacted] Age: 83 Sex: F
 Phone: [Redacted] ID#: [Redacted]

Accession: 2301030408	Coll. Date: 01/03/23	Recv. Date: 01/03/23	Print Date: 07/04/24
Chart#	Coll. Time: 11:00	Recv. Time: 20:09	Print Time: 09:32
First reported on: 01/04/23		Final report date: 07/04/24	

Clinical Report:

Clinical Abnormalities Summary: (May not contain all abnormal results; narrative results may not have abnormal flags. Please review entire report.)

GLUCOSE	162	mg/dL	HIGH	74.0 - 106.0
B.U.N.	24.0	mg/dL	HIGH	9.00 - 23.00
BUN/CREATININE RATIO	39	RATIO	HIGH	8 - 28
ALK.PHOSPHATASE	41	U/L	LOW	46.0 - 116.0
GLYCOHEMOGLOBIN A1C	6.9	%	HIGH	4.00 - 5.69
CRP HIGH SENSITIVITY	0.69	mg/L	LOW	1.0 - 3.0
HOMOCYSTEINE	18.01	umol/L	HIGH	3.70 - 13.90
HDL CHOLESTEROL	42	mg/dL	LOW	>=60
TRIGLYCERIDES	153	mg/dL	HIGH	<150
RBC	3.59	10 ⁶ /uL	LOW	3.8 - 5.2
HGB	11.0	g/dL	LOW	11.5 - 15.5
HCT	32.5	%	LOW	37.0 - 47.0
MCV	90.6	fL	HIGH	80 - 90
MPV	11.3	fL	HIGH	7.4 - 10.4
SEGMENTED %	78.3	%	HIGH	40.0 - 75.0
FOLATE	3.58	ng/mL	LOW	5.38 - 24.00
VITAMIN D 25-OH	25.1	ng/mL	LOW	
INSULIN	30.5	uIU/mL	HIGH	2.6 - 24.9

Test Name	Within Range	Out Of Range	Ref.Range	Units	Previous Result (Date)
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CHEMISTRY

GLUCOSE		162 H	74.0 - 106.0	mg/dL	128 (11/06/22)
SODIUM	143		132.0 - 146.0	mmol/L	141 (11/06/22)
POTASSIUM	3.9		3.50 - 5.50	mmol/L	3.9 (11/06/22)
CHLORIDE	107		99.0 - 109.0	mmol/L	106 (11/06/22)
BICARBONATE	25		20.0 - 31.0	mEq/L	26 (11/06/22)
CREATININE	0.61		0.50 - 1.10	mg/dL	0.76 (11/06/22)
GLOMERULAR FILTRATION	94				73 (11/06/22)*
If African-American, result is: >60					
B.U.N.		24.0 H	9.00 - 23.00	mg/dL	16.0 (11/06/22)
BUN/CREATININE RATIO		39 H	8 - 28	RATIO	21 (11/06/22)
CALCIUM	9.2		8.70 - 10.40	mg/dL	9.2 (11/06/22)
T.PROTEIN	6.6		5.70 - 8.20	g/dL	6.7 (11/06/22)
ALBUMIN	4.3		3.20 - 4.80	g/dL	4.4 (11/06/22)
GLOBULIN	2.3		1.8 - 4.0	g/dL	2.3 (11/06/22)
A/G RATIO	1.87		1.00 - 2.50	RATIO	1.91 (11/06/22)
ALK.PHOSPHATASE		41 L	46.0 - 116.0	U/L	41 (11/06/22)
URIC ACID	5.2		3.10 - 9.20	mg/dL	3.8 (11/06/22)
LACTATE DEHYDROGENASE	201		120.0 - 246.0	U/L	205 (11/06/22)
BILIRUBIN,Total	0.5		0.2 - 1.1	mg/dL	0.4 (11/06/22)
BILIRUBIN,Direct	0.20		0.00 - 0.20	mg/dL	0.20 (11/06/22)
GGT	15		<38	U/L	14 (11/06/22)
SGPT (ALT)	21		10.00 - 49.00	U/L	18 (11/06/22)

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CHEMISTRY (Continued)

SGOT (AST)	21		0.00 - 33.90	U/L	20 (11/06/22)
FERRITIN	57		10.0 - 322.0	ng/mL	49 (11/06/22)
GLYCOHEMOGLOBIN A1C		6.9 H	4.00 - 5.69	%	7.1 (11/06/22)

REFERENCE RANGE:
 Normal: <5.7%
 Pre-Diabetes: 5.7-6.4%
 Diabetes: > or =6.5%

INTERPRETIVE STATEMENT:

Hemoglobin A1c (A1c) is used to diagnose and monitor diabetes mellitus. The ADA recommends twice a year testing for patients with stable glucose control and quarterly testing for patients with poor glucose control. Variant hemoglobins (ie Sickle cell, thalassemia) may affect test results. Hemoglobin A1c is observed to be lower in healthy pregnant women than healthy non-pregnant women, patients with spherocytosis, and medical conditions with high RBC turnover (hemolytic and other anemias, recent RBC transfusion, and ESRD).

CRP HIGH SENSITIVITY		0.69 L	1.0 - 3.0	mg/L	1.14 (11/06/22)
HOMOCYSTEINE		18.01 H	3.70 - 13.90	umol/L	17.06 (07/16/22)
LIPID PANEL					
CHOLESTEROL	103		<200	mg/dL	87 (11/06/22)
HDL CHOLESTEROL		42 L	>=60	mg/dL	36 (11/06/22)
CHOLESTEROL/HDL RATIO	2.45		0 - 4.44		2.42 (11/06/22)

Male <5.00
 Female <4.50

TRIGLYCERIDES		153 H	<150	mg/dL	110 (11/06/22)
LDL CHOLESTEROL,calc.	30		<100	mg/dL	29 (11/06/22)

LDL Calculation is not valid when Triglyceride value exceeds 400 mg/dL.

VLDL CHOLESTEROL,calc.	31		0 - 38	mg/dL	22 (11/06/22)
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HEMATOLOGY

Complete Blood Count

WBC	7.8		3.8 - 10.5	10 ³ /uL	8.0 (11/06/22)
RBC		3.59 L	3.8 - 5.2	10 ⁶ /uL	3.60 (11/06/22)
HGB		11.0 L	11.5 - 15.5	g/dL	11.2 (11/06/22)
HCT		32.5 L	37.0 - 47.0	%	32.9 (11/06/22)
MCV		90.6 H	80 - 90	fL	91.4 (11/06/22)

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HEMATOLOGY (Continued)

MCH	30.6		27.0 - 34.0	pg	31.1 (11/06/22)
MCHC	33.7		32.0 - 36.0	g/dL	34.0 (11/06/22)
RDW	14.6		11.5 - 15.5	%	14.9 (11/06/22)
PLT	188		150 - 400	10 ³ /uL	180 (11/06/22)
MPV		11.3 H	7.4 - 10.4	fL	11.1 (11/06/22)
Differential Automated					
SEGMENTED %		78.3 H	40.0 - 75.0	%	75.6 (11/06/22)
SEGMENTED #	6.1		1.80 - 7.40	10 ³ /uL	6.0 (11/06/22)
LYMPHOCYTES %	14.5		13.0 - 44.0	%	16.7 (11/06/22)
LYMPHOCYTES #	1.1		1.0 - 3.0	10 ³ /uL	1.3 (11/06/22)
MONOCYTES %	5.3		2.0 - 11.0	%	5.2 (11/06/22)
MONOCYTES #	0.40		0.0 - 0.9	10 ³ /uL	0.40 (11/06/22)
EOSINOPHILS %	1.2		0.0 - 6.0	%	1.3 (11/06/22)
EOSINOPHILS #	0.10		0.0 - 0.5	10 ³ /uL	0.10 (11/06/22)
BASOPHILS %	0.7		0.0 - 2.0	%	1.2 (11/06/22)
BASOPHILS #	0.10		0.0 - 0.2	10 ³ /uL	0.10 (11/06/22)

THYROID FUNCTION

T4	8.1		4.50 - 10.90	ug/dL	
T3,TOTAL	99.55		60 - 181	ng/dL	85.79 (11/06/22)
T4, FREE	1.350		0.89 - 1.76	ng/dL	1.150 (11/06/22)
TSH	1.608		0.550 - 4.780	uIU/mL	1.454 (11/06/22)
T3, FREE	2.59		2.30 - 4.20	pg/mL	2.83 (11/06/22)

ENDOCRINOLOGY

VITAMIN B12	421.0		211 - 911	pg/mL	289.0 (11/06/22)
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Low Less than 160 pg/mL
 Intermediate 160-200 pg/mL
 Greater than 200 pg/mL

FOLATE		3.58 L	5.38 - 24.00	ng/mL	9.07 (04/19/22)
CORTISOL	15.74		3.44 - 22.45	ug/dl	

Reference Ranges:
 Morning 6.2-19.4
 Afternoon 2.3- 11.9

ESTRADIOL	27.1		19.50 - 356.7	pg/mL	
Male		52.8 - 63.2			
Female					
Follicular Phase		172.4 - 314.4			
Ovulation Phase		316.5 - 524.4			

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ENDOCRINOLOGY (Continued)

Luteal Phase 293.4 - 751.6
 Postmenopause 51.5 - 313.3

TESTOSTERONE	11.20		10 - 75	ng/dL	
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Free Testosterone cannot be calculated if the Total Testosterone results are <7.50 or >1500.

DHEA-SULFATE	69		25.90 - 568.9	ug/dL	
VITAMIN D 25-OH		25.1 L		ng/mL	24.7 (11/06/22)

Interpretation of Results for Vitamin D:
 <10 ng/mL.....indicates deficiency
 10 - 30 ng/mL....indicates insufficiency
 30 - 100 ng/mL...indicates sufficiency
 >100 ng/mL.....indicates toxicity

TESTOSTERONE, FREE	0.07		0.06 - 0.68	ng/dL	
SHBG	133		23.15 - 159.1	nmol/L	
PROGESTERONE	0.22		0.21 - 28.03	ng/mL	

REFERENCE RANGE

FEMALE:

FOLLICULA	0.0 - 1.2 NG/ML
LUTEAL	0.95 - 21.0 NG/ML
POST-MENOPAUSAL	< 1.0 NG/ML

DURING PREGNANCY

1ST TRIMESTER	9.3 - 33.2 NG/ML
2ND TRIMESTER	29.5 - 50.0 NG/ML
3RD TRIMESTER	83.1 - 160.0 NG/ML

SEE NEW RANGES*****
 EFFECTIVE DATE 02/15/2002

OTHER

Zinc, Whole Blood	462.49		301.74 - 706.92	ug/dL	*I
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This test was developed and its performance characteristics determined by SMA Specialty Medical Lab. It has not been cleared or approved by the Food and Drug Administration.

This assay was validated in compliance with CLIA regulations and may be used for clinical purposes only.

Analysis by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

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OTHER (Continued)

This test was developed and its performance characteristics determined by SMA Specialty Medical Lab. It has not been cleared or approved by the Food and Drug Administration.

This assay was validated in compliance with CLIA regulations and may be used for clinical purposes only.

Other Tests

Cobalt, Whole Blood	<0.40		0.00 - 0.85	ug/L	*1
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This test was developed and its performance characteristics determined by SMA Specialty Medical Lab. It has not been cleared or approved by the Food and Drug Administration.

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Manganese, Whole Blood	14.90		6.33 - 31.95	ug/L	*1
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Analysis by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)
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Analysis by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Cadmium, Blood

Cadmium, Whole Blood	<0.30		0.00 - 1.20	ug/L	*1
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This test was developed and its performance characteristics determined by SMA Specialty Medical Lab. It has not been cleared or approved by the Food and Drug Administration.

This assay was validated in compliance with CLIA regulations and may be used for clinical purposes only.

Environmental Exposure:
 Nonsmokers: 0.3-1.2
 Smokers : 0.6-3.9
 Occupational Exposure:
 OSHA Cadmium Std. < 5.0
 BEI < 5.0

Analysis by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

INSULIN	30.5 H		2.6 - 24.9	uIU/mL	*2
Selenium, Whole Blood	226.66		76.07 - 518.26	ug/L	*1

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Other Tests (Continued)

Administration.

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Analysis by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Aluminum, Whole Blood

Aluminium, Whole Blood 15.22 0.00 - 40.00 ug/L *I

This test was developed and its performance characteristics determined by SMA Specialty Medical Lab. It has not been cleared or approved by the Food and Drug Administration.

This assay was validated in compliance with CLIA regulations and may be used for clinical purposes only.

Analysis by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Vitamin E (alpha-Tocopherol), Serum 6.8 5.5 - 25.0 mg/L *I

This test was developed and its performance characteristics determined by SMA Specialty Medical Lab. It has not been cleared or approved by the Food and Drug Administration.

Report Status: FINAL

END OF REPORT

*1) Unless otherwise noted, Tests Performed at :
 SMA LAB, Feasterville, PA 19053 CLIA# 39D0987158

*2) Unless otherwise noted, Tests Performed at :
 SUNRISE MEDICAL LABORATORIES, HICKSVILLE, NY 11801 CLIA# 33D0654120

Reference Lab. Account Number: 19590
 Reference Lab. Accession Number: 2278992

*THE FOLLOWING PREVIOUS TEST RESULTS WERE ACCOMPANIED BY FREE TEXT AND/OR CANNED COMMENTS:

GLOMERULAR FILTRATION : 73 (11/06/22)

If African-American, result is: >60