



5151 CORPORATE WAY
 JUPITER, FL 33458-3101
 (866)720-8386

Client: ACCESS MEDICAL LABS, 0	1	Patient: PATIENT, TEST	
5151 CORPORATE WAY		Phone: () -	DOB: 01/01/2000 Age:24 Sex:F
JUPITER, FL 33458		Address 1:	Fasting: N
Phys: SARA, ALAN	(561) 745-1233	Address 2:	
		City:	State: Zip: Page:1

Acc# 004579161	Coll. Date: 02/23/24	Recv. Date: 02/23/24	Print Date: 03/08/24
Chart#	Coll. Time: 00:00 AM	Recv. Time: 02:11 PM	Print Time: 09:01
First reported on:	02/23/24 14:52	Final report date:	02/28/24

Report Status: FINAL

Test Name	Results	Reference Range	Units
COMPLETE BLOOD COUNT			
WHITE BLOOD CELL	5.9	3.9 - 11.4	K/ul
RED BLOOD CELL	4.67	3.80 - 5.50	M/ul
HEMOGLOBIN	14.1	11.5 - 15.2	g/dl
HEMATOCRIT	48.8	38.0 - 51.0	%
MCV	105 H	83 - 103	fl
MCH	30.2	26.0 - 34.0	pg
MCHC	28.9 L	29.5 - 35.5	g/dl
RDW	13.2	11.0 - 15.5	%
PLATELET COUNT	243	140 - 400	k/ul
MPV	11.8 H	7.5 - 11.6	fl
The reference range reflects change to Siemens Advia 2120i instrumentation.			
AUTOMATED DIFFERENTIAL			
DIFFERENTIAL			
Neutrophil %	62.5	38.0 - 75.0	%
Lymphocyte %	30.1	15.0 - 49.0	%
Monocyte %	3.9	2.0 - 13.0	%
Eosinophil %	2.1	0.0 - 8.0	%
Basophil %	1.3	0.0 - 2.0	%
Neutrophil #	3.7	1.6 - 8.4	K/ul
Lymphocyte #	1.8	1.0 - 3.6	K/ul
Monocyte #	0.2	0.0 - 0.9	K/ul
Eosinophil #	0.1	0.0 - 0.6	K/ul
Basophil #	0.1	0.0 - 0.2	K/ul
HEMATOLOGY TESTS			
Reticulocyte Count	0.9	0.5 - 1.9	%
GENERAL CHEMISTRY			
GLUCOSE	100	65 - 100	mg/dl
BUN	10	6 - 20	mg/dl
CREATININE, SERUM	1.5 H	0.5 - 1.0	mg/dl
SODIUM	145	136 - 145	mmol/L
POTASSIUM	4.5	3.5 - 5.1	mmol/L
CHLORIDE	105	100 - 110	mmol/L
CO2	25	20 - 31	mmol/L

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GENERAL CHEMISTRY (Continued)			
CALCIUM	9.0	8.3 - 10.6	mg/dl
TOTAL PROTEIN	9.0 H	5.7 - 8.2	g/dl
ALBUMIN	4.5	3.2 - 4.8	g/dl
GLOBULIN	4.5 H	2.2 - 3.7	g/dl
BILIRUBIN, TOTAL	0.2 L	0.3 - 1.2	mg/dl
ALKALINE PHOSPHATASE	10 L	37 - 98	U/L
ALT	15	0 - 48	U/L
AST	15	0 - 32	U/L
Albumin/Globulin Ratio	1.0	0.8 - 2.0	
BUN/CREAT RATIO	N/A	7.3 - 21.7	
GFR, estimated	45		ml/min
	If African-American, result is: 55		
	Calculation of estimated GFR is based on the MDRD Study prediction equation		
	****Five Stages of Chronic Kidney Disease****		
Stage	*GFR Level*	*Description*	
Stage 1	90 ml/min or more	Healthy Kidneys or Kidney damage with normal or high GFR	
Stage 2	60 to 89 ml/min	Kidney damage and mild decrease in GFR	
Stage 3	30 to 59 ml/min	Moderate decrease in GFR	
Stage 4	15 to 29 ml/min	Severe decrease in GFR	
Stage 5	< 15 ml/min	Kidney failure, or on dialysis	
DIABETES EVALUATION			
HEMOGLOBIN A1C	4.0	< 5.7	%
	Diagnosis		***HbA1c Level***
	Normal		< 5.7 %
	Prediabetes		5.7 - 6.4 %
	Diabetes		= or > 6.5 %
	Having prediabetes is a Risk Factor for getting type 2 diabetes. Within the prediabetes range(5.7-6.4), the higher the HbA1c, the greater the risk of diabetes. HbA1c target for diabetics depend on their history and health.		
INSULIN	2.55 L	3.0 - 25.0	uIU/ml
IRON/ANEMIA EVALUATION			
IRON	45 L	50 - 170	ug/dl

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IRON/ANEMIA EVALUATION (Continued)			
TOTAL IRON-BIND. CAPACITY	350	250 - 425	ug/dl
% IRON SATURATION	13 L	15 - 50	%
FERRITIN	100	7.3 - 270.7	ng/ml
VITAMIN B12	>2000 H	211 - 911	pg/ml
FOLATE, SERUM	12.5	5.38 - 24.0	ng/ml
CORONARY RISK			
TRIGLYCERIDES	150 H	<150	mg/dl
CHOLESTEROL, TOTAL	200 H	<200	mg/dl
HDL CHOLESTEROL	65	>40	mg/dl
LDL CHOLESTEROL, calc..	109 H	<100	mg/dl
CHOL/HDL RATIO	3.1	<4.4	
The higher the Ratio, the higher CHD risk.			
CRP, Cardio	12.5 H	<3	mg/L
Risk of Cardiovascular Disease			
	Low Risk	CRP < 1.0	mg/L
	Medium Risk	CRP 1.0 - 3.0	mg/L
	High Risk	CRP > 3.0	mg/L
Results verified by repeat analysis and dilution.			
HOMOCYSTEINE	17.5 H	4.5 - 15.0	umol/L
Ideal level <8.0 umol/L			
Vitamin D,25-OH,Total	50	30 - 100	ng/ml
Notes:			
Therapy is based on the measurement of Total Vitamin D (25-OH).			
Most experts agree that Vitamin D deficiency should be = or < 20 ng/ml.			
Vitamin D insufficiency is recognized as 21 - 29 ng/ml.			
The preferred level for Vitamin D (25-OH) is recommended to be 30 - 100 ng/ml.			
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CORONARY RISK (Continued)

Vitamin D > 150 ng/ml is considered potentially toxic.

ENDOCRINE EVALUATION

PROGESTERONE 15 ng/mL

****Female Reference Ranges****

Follicular phase	0.00 - 1.40	ng/mL
Luteal phase	3.34 - 25.56	ng/mL
Mid-luteal phase	4.44 - 28.03	ng/mL
Postmenopausal	0.00 - 0.73	ng/mL

****Pregnant****

First trimester	11.22 - 90.00	ng/mL
Second trimester	25.55 - 89.40	ng/mL
Third trimester	48.40 - 422.5	ng/mL

PREGNENOLONE, LC/MS/MS 67.2 2.5 - 75.0 ng/dL

Effective 3/13/17, Pregnenolone is performed in-house on LC/MS/MS.

ESTRONE (E1), LC/MS/MS 65.1 17.0 - 200.0 pg/ml
 ESTRADIOL (E2) 52 pg/mL

****Female Reference Ranges****

Menstruating females (by day in cycle relative to LH peak)

Follicular Phase	(-12 to -4 days)	19.5 - 144.2	pg/mL
Mid Cycle Peak	(-3 to +2 days)	63.9 - 356.7	pg/mL
Luteal Phase	(+4 to +12 days)	55.8 - 214.2	pg/mL
Post Menopausal	(untreated)	0.0 - 32.2	pg/mL

ESTRIOL (E3), LC/MS/MS 0.102 <0.20 ng/ml
 DHEA-SULFATE **20.1 L** 25.9 - 460.2 ug/dl
 DIHYDROTOSTERONE LC/MS **87.6 H** <30.0 ng/dL

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ENDOCRINE EVALUATION (Continued)

TESTOSTERONE, TOTAL 45 6 - 82 ng/dl

****Female Reference Ranges****

Premenopausal 9 - 48 ng/dL
 Postmenopausal <7 - 46 ng/dL

SEX HORMONE BIND GLOBULIN 35 nmol/L

****Female Reference Ranges****

Premenopausal 11 - >180.00 nmol/L
 Postmenopausal 23 - 159 nmol/L

TESTOSTERONE, FREE 0.8 0.2 - 2.6 ng/dl
 CORTISOL 4.5 ug/dl

****Normal individuals****

Morning am 7-9: 5.2 - 22.5 ug/dL
 Afternoon pm 3-5 : 3.4 - 16.8 ug/dL

Lab Developed Testing *****

Serum Pregnenolone, DHT, Estrone, Estriol, RT3 and CO-Q10 were developed and their performance characteristics determined by Access Medical Laboratories.
 It has not been cleared or approved by the FDA.
 The laboratory is regulated under CLIA and qualified to perform high-complexity testing. These tests are used for clinical purposes. It should not be regarded as investigational or for research.

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ENDOCRINE EVALUATION (Continued)

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