Michalman, Marnee Patient ID: 142384 Specimen ID: 278-436-5248-0 DOB: **09/03/1971** Age: **51** Sex: **Female** Patient Report Account Number: 09013070 Ordering Physician: C CHOJNOWSK



Ordered Items: TSH+T4F+T3Free; CBC With Differential/Platelet; Comp. Metabolic Panel (14); Lipid Panel With LDL/HDL Ratio; Vitamin B12 and Folate; Progesterone LCMS, Endo Sci; Hemoglobin A1c; DHEA-Sulfate; Estradiol; Testosterone, Total, LC/MS; Reverse T3, Serum; Vitamin D, 25-Hydroxy; C-Reactive Protein, Cardiac; Sedimentation Rate-Westergren; Thyroid Antibodies; Magnesium; Estrone, Serum; Ferritin; Venipuncture; Cardiovascular Report

Date Collected: 10/05/2022	Date Received: 10/05/2022	Date Reported: 10/12/2022		Fasting: Yes
TSH+T4F+T3Free				
Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval

Test	Current Result and Flag	Previous Result and Date	Units	Reference Inter
TSH ⁰¹	1.700		uIU/mL	0.450-4.500
Triiodothyronine (T3), Free ⁰¹	3.1		pg/mL	2.0-4.4
T4,Free(Direct) ⁰¹	1.34		ng/dL	0.82-1.77

CBC With Differential/Platelet

	Test	Current Result and Flag		Previous Result and Date	Units	Reference Interval
	WBC ⁰¹	8.9			x10E3/uL	3.4-10.8
	RBC ⁰¹	5.69	High		x10E6/uL	3.77-5.28
	Hemoglobin ⁰¹	14.4			g/dL	11.1-15.9
	Hematocrit ⁰¹	45.6			%	34.0-46.6
	MCV ⁰¹	80			fL	79-97
▼	MCH ⁰¹	25.3	Low		pg	26.6-33.0
	MCHC ⁰¹	31.6			g/dL	31.5-35.7
	RDW ⁰¹	14.3			%	11.7-15.4
	Platelets ⁰¹	273			x10E3/uL	150-450
	Neutrophils ⁰¹	60			%	Not Estab.
	Lymphs ⁰¹	29			%	Not Estab.
	Monocytes ⁰¹	7			%	Not Estab.
	Eos ⁰¹	2			%	Not Estab.
	Basos ⁰¹	1			%	Not Estab.
	Neutrophils (Absolute) ⁰¹	5.4			x10E3/uL	1.4-7.0
	Lymphs (Absolute) ⁰¹	2.6			x10E3/uL	0.7-3.1
	Monocytes(Absolute) ⁰¹	0.6			x10E3/uL	0.1-0.9
	Eos (Absolute) 01	0.2			x10E3/uL	0.0-0.4
	Baso (Absolute) 01	0.1			x10E3/uL	0.0-0.2
	Immature Granulocytes ⁰¹	1			%	Not Estab.
	Immature Grans (Abs) ⁰¹	0.0			x10E3/uL	0.0-0.1

Comp. Metabolic Panel (14)

 Test	Current Result and Flag		Previous Result and Date	Units	Reference Interval
Glucose ⁰¹	104	High		mg/dL	70-99
	**		**Please note reference interval char		
 BUN ⁰¹	14			mg/dL	6-24
Creatinine ⁰¹	0.70			mg/dL	0.57-1.00
 eGFR	105			mL/min/1.73	>59
 BUN/Creatinine Ratio	20				9-23

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DOB: **09/03/1971**

Age: **51** Sex: **Female** **Patient Report**

Account Number: **09013070** Ordering Physician: **C CHOJNOWSK**



Comp. Metabolic Panel (14) (Cont.)

Michalman, Marnee

Specimen ID: 278-436-5248-0

Patient ID: 142384

Sodium ⁰¹	138		mmol/L	134-144
Potassium ⁰¹	4.8		mmol/L	3.5-5.2
Chloride ⁰¹	100		mmol/L	96-106
Carbon Dioxide, Total ⁰¹	25		mmol/L	20-29
Calcium ⁰¹	9.9		mg/dL	8.7-10.2
Protein, Total ⁰¹	7.6		g/dL	6.0-8.5
Albumin ⁰¹	4.8		g/dL	3.8-4.9
Globulin, Total	2.8		g/dL	1.5-4.5
A/G Ratio	1.7			1.2-2.2
Bilirubin, Total ⁰¹	0.3		mg/dL	0.0-1.2
Alkaline Phosphatase ⁰¹	117		IU/L	44-121
AST (SGOT) ⁰¹	31		IU/L	0-40
ALT (SGPT) ⁰¹	46	High	IU/L	0-32

Lipid Panel With LDL/HDL Ratio

Test	Current Result and Flag		Previous Result and Date	Units	Reference Interval
▲ Cholesterol, Total ⁰¹	230	High		mg/dL	100-199
Triglycerides ⁰¹	98			mg/dL	0-149
HDL Cholesterol ⁰¹	50			mg/dL	>39
VLDL Cholesterol Cal	17			mg/dL	5-40
▲ LDL Chol Calc (NIH)	163	High		mg/dL	0-99
▲ LDL/HDL Ratio	3.3	High		ratio	0.0-3.2

Please Note: 01

LDL/HDL Ratio Men Women 1/2 Avg.Risk 1.0 1.5 Avg.Risk 3.6 3.2 2X Avg.Risk 6.2 5.0 3X Avg.Risk 8.0 6.1

Vitamin B12 and Folate

Test	Current Resu	lt and Flag	Previous Result and Date	Units	Reference Interval
▲ Vitamin B12 ⁰¹	1268	High		pg/mL	232-1245
Folate (Folic Acid), Serum ⁰¹	>20.0			ng/mL	>3.0
Note: 01					
	A serum folate considered to r				

Progesterone LCMS, Endo Sci

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Progesterone, Serum ⁰²	<10		ng/dL	
	This test was developed and determined by LabCorp. It ha by the Food and Drug Adminis Reference Range: Adult Females Cycle Days Range 1 - 6 <10 - 17	its performance characteristic: as not been cleared or approved stration.	s	

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DOB: **09/03/1971**

Age: **51** Sex: **Female** Patient Report Account Number: 09013070 Ordering Physician: C CHOJNOWSK



Progesterone LCMS, Endo Sci (Cont.)

7 -	12	<10 -	135						
13 -	15	<10 -	1563						
16 -	28	<10 -	2555						
Post Me	nopausal	<10							
Note: L	uteal prog	gester	one peaked	from	350	to	3750	ng/dL	on
days ra	nging from	n 17 to	o 23.						

Hemoglobin A1c

Michalman, Marnee

Specimen ID: 278-436-5248-0

Patient ID: 142384

Test	Curre	nt Result and Flag	Previous Result and Date	Units	Reference Interval		
🔺 Hemoglobin A	1c ⁰¹ 6.0	High		%	4.8-5.6		
Please Note: 01							
	Р	Prediabetes: 5.7 - 6.4					
	D	iabetes: >6.4					
	G	lycemic control fo	r adults with diabetes: <7.	0			

DHEA-Sulfate

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
DHEA-Sulfate ⁰¹	73.9		ug/dL	41.2-243.7
Estradiol				
Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Estradiol ⁰¹	<5.0		pg/mL	
		Adult Female:		
		Follicular phase	12.5 - 166.0	
		Ovulation phase	85.8 - 498.0	
		Luteal phase	43.8 - 211.0	
		Postmenopausal	<6.0 - 54.7	
		Pregnancy		
		1st trimester	215.0 - >4300.0	
	Roche ECLIA methodology			

Testosterone, Total, LC/MS

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Testosterone, Total, LC/MS ⁰²	2 20		ng/dL	
	This test was developed and determined by LabCorp. It ha by the Food and Drug Adminis Reference Range: Adult Females Premenopausal 10 - 55 Postmenopausal 7 - 40	its performance characteristi s not been cleared or approve tration.	cs d	

Reverse T3, Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Reverse T3, Serum ^{A, 03}	18.1		ng/dL	9.2-24.1
Vitamin D, 25-Hydroxy				
Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval

lest	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Vitamin D, 25-Hydroxy ⁰¹	35.3		ng/mL	30.0-100.0

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Michalman, Marnee	DOB: 09/03/1971	Patient Report	🔵 lab
Patient ID: 142384	Age: 51	Account Number: 09013070	
Specimen ID: 278-436-5248-0	Sex: Female	Ordering Physician: C CHOJNOWSK	

Vitamin D, 25-Hydroxy (Cont.)

> Vitamin D deficiency has been defined by the Institute of Medicine and an Endocrine Society practice guideline as a level of serum 25-OH vitamin D less than 20 ng/mL (1,2). The Endocrine Society went on to further define vitamin D insufficiency as a level between 21 and 29 ng/mL (2). 1. IOM (Institute of Medicine). 2010. Dietary reference

- intakes for calcium and D. Washington DC: The National Academies Press.
- 2. Holick MF, Binkley NC, Bischoff-Ferrari HA, et al. Evaluation, treatment, and prevention of vitamin D deficiency: an Endocrine Society clinical practice guideline. JCEM. 2011 Jul; 96(7):1911-30.

C-Reactive Protein, Cardiac

 Test	Current Resul	t and Flag	Previous Result and Date	Units	Reference Interval
C-Reactive Protein, Cardiac ⁰¹	8.63	High		mg/L	0.00-3.00
		Rela	tive Risk for Future Cardic	ovascular Event	
			Low	<1.00	
			Average	1.00 - 3.00	
			High	>3.00	

Sedimentation Rate-Westergren

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Sedimentation				
Rate-Westergren ⁰¹	19		mm/hr	0-40

Thyroid Antibodies

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Thyroid Peroxidase (TPO) Ab ⁰¹	11		IU/mL	0-34
Thyroglobulin Antibody ⁰¹	<1.0		IU/mL	0.0-0.9
	Thyroglobulin Antibody measured by Beckman Coulter Methodology			

Magnesium

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Magnesium ⁰¹	2.0		mg/dL	1.6-2.3

Estrone, Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Estrone, Serum ⁰³	21		pg/mL	
			Range	
		Adult (Premenopausal)	27 - 231	
		Menstrual Cycle (1-10 days)	19 - 149	
		Menstrual Cycle (11-20 days)	32 - 176	
		Menstrual Cycle (21-30 days)	37 - 200	
		Adult (Postmenopausal)	0 - 125	

Ferritin

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Ferritin ⁰¹	53		ng/mL	15-150

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DOB: **09/03/1971**

Age: **51** Sex: **Female** **Patient Report**

Account Number: 09013070

Ordering Physician: C CHOJNOWSK



Specimen ID: **278-436-5248-0**

Michalman, Marnee

Patient ID: 142384

Cardiovascular Report				
Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Interpretation ⁰⁴	Note			
	Supplemental report is avail	able.		
PDF ⁰⁴	•			

Disclaimer

The Previous Result is listed for the most recent test performed by Labcorp in the past 5 years where there is sufficient patient demographic data to match the result to the patient. Results from certain tests are excluded from the Previous Result display.

Icon Legend

🔺 Out of Reference Range 🛛 📕 Critical or Alert

Comments

A: This test was developed and its performance characteristics determined by Labcorp. It has not been cleared or approved by the Food and Drug Administration.

Performing Labs

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Patient Details Michalman, Marnee 26 E DERRY RD, DERRY, NH, 03038

Phone: **603-490-0546** Date of Birth: **09/03/1971** Age: **51** Sex: **Female** Patient ID: **142384** Alternate Patient ID: **142384** Physician Details C CHOJNOWSK PROFESSIONAL CO-OP SERVICES 2700 North 29th Ave, Suite 308, Hollywood, FL, 33020

Phone: 866-999-4041 Account Number: 09013070 Physician ID: NHND0090 NPI: Specimen Details Specimen ID: **278-436-5248-0** Control ID: **00428624** Alternate Control Number: **00428624** Date Collected: **10/05/2022 0801 Local** Date Received: **10/05/2022 0000 ET** Date Entered: **10/05/2022 1202 ET** Date Reported: **10/12/2022 2106 ET** Rte: **00**

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DATE OF SERVICE PH 10/05/2022

PHYSICIAN

LabCorp Account #: 09013070

Accessions: 27843652480

DISCLAIMER: These assessments and treatment suggestions are provided as a convenience in support of the physician-patient relationship and are not intended to replace the physician's clinical judgment. They are derived from national guidelines in addition to other evidence and expert opinion. The clinician should consider this information within the context of clinical opinion and the individual patient.

SEE GUIDANCE FOR CARDIOVASCULAR REPORT: Grundy SM et al. 2018 Multisociety guideline on the management of blood cholesterol: a report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. J Am Coll Cardiol 2019; 73: e285-350; Contois et al. Clin Chem 2009; 55(3):407-419; Brunzell et al. Diabetes Care 2008; 31(4):811-82.

Note: Please refer to your LabCorp Report for all results as well as any test-specific and specimen-specific comments.

Cardiovascular Report

Patient Assessment

Current available clinical information suggests the patient's risk is at least LOW. If the patient has two or more major risk factors, the risk category is intermediate. If the patient has CHD or a CHD risk equivalent, the risk category is high. If patient does not have CHD or a CHD risk equivalent, consider use of the Pooled Cohort Equations to estimate 10-year CVD risk, as individuals with greater than 7.5% risk may warrant more intensive therapy. The calculator can be found at: http://tools.cardiosource.org/ASCVD-Risk-Estimator/

High sensitivity CRP and Lp(a) results identify sources of residual risk that may warrant more intensive therapy. Hs-CRP result (8.63 mg/L) indicates increased risk for future cardiovascular events.

Insulin resistance, obesity, excessive alcohol use, smoking, nephrotic syndrome, liver disease, and certain medications can cause secondary dyslipidemia. Consider evaluation if clinically indicated.

Therapeutic lifestyle changes are always valuable to achieve optimal blood lipid status (diet, exercise, weight management).

Lipid Management

Select one patient risk category based upon medical history and clinical judgment. Additional risk factors such as personal or family history of premature CHD, smoking, and hypertension modify a patient's goals of therapy. In CVD prevention, the intensity of therapy should be adjusted to the level of patient risk. MODERATE intensity statin therapy generally results in an average LDL-C reduction of 30% to less than 50% from the untreated baseline. Examples include (daily doses): atorvastatin 10-20 mg, rosuvastatin 5-10 mg, simvastatin 20-40 mg, pravastatin 40-80 mg, lovastatin 40 mg. HIGH intensity statin therapy generally results in an average LDL-C reduction of 50% or more from the untreated baseline. Examples include (daily doses): atorvastatin 20 mg.

= PATIENT'S RESULT	Patient Risk Category (select one)		
ANALYTE / RESULT	LOW	INTERMEDIATE	HIGH
LDL-C 163 mg/dL			70 100
non-HDL 180 mg/dL			
Lipid Assessment	LDL-C is high, was 133 and now is 163 mg/dL. Non-HDL Cholesterol is acceptable, was 145 and now is 180 mg/dL.	LDL-C is high, was 133 and now is 163 mg/dL. Non-HDL Cholesterol is borderline high, was 145 and now is 180 mg/dL.	LDL-C is high, was 133 and now is 163 mg/dL. Non-HDL Cholesterol is high, was 145 and now is 180 mg/dL.
Treatment Suggestions	Consider statin therapy as elevated LDL-C may contribute to increased CVD risk. If statin cannot be tolerated or increased, alternatives include use of an intestinal agent (ezetimibe or bile acid sequestrant) or niacin.	Begin statin. If statin already in use, consider increasing dose. If statin cannot be tolerated or increased, alternatives include use of an intestinal agent (ezetimibe or bile acid sequestrant) or niacin.	Begin statin. If statin already in use, consider increasing dose to achieve at least a 50% LDL reduction from baseline. Moderate or high intensity statin is preferred. If statin cannot be tolerated or increased, alternatives include use of an intestinal agent (ezetimibe or bile acid sequestrant) or niacin.

Patient Results Summary

Cholesterol comes in different forms and has varying effects on your heart health. Some cholesterol is "good" and not known to cause disease, this is HDL. The rest of cholesterol causes disease by clogging your arteries, this is non-HDL. LDL cholesterol is the largest component of the non-HDL cholesterol. Lowering your levels of "bad" cholesterol will lower your risk for disease.

- LDL cholesterol (LDL-C) is the largest component of the non-HDL cholesterol ("bad" cholesterol).
- **non-HDL** is composed of many different types of cholesterol (not just LDL-C) and high levels cause disease.

The level to which your LDL must be lowered depends on the risk for developing heart disease or having a heart attack. The higher your risk for heart disease, the lower your LDL goal.

Contributing Risk Factors For Heart Disease	
Heart and/or vascular disease	Cigarette (tobacco) smoking
High blood pressure	Low HDL (men less than 40 mg/dL, women less than 50 mg/dL)
Diabetes	Family history of early onset heart disease
Chronic kidney disease	Man over 45 years or woman over 55 years
Obesity	Familial Hypercholesterolemia



Your Care Plan (as selected by your physician)	
Eat less trans fats and saturated fats, red meat, and sugary foods/drinks	Control any other medical conditions: such as diabetes, high blood pressure
Eat more vegetables, fruits, whole grains, low- fat dairy products, poultry, fish, and nuts	$\hfill \Box$ Visit your doctor as scheduled and obtain all follow-up tests/treatments recommended
Exercise	Take all of your medications your doctor(s) have prescribed
Lose weight	

Disclaimer: You should discuss this information with your physician. Labcorp does not have a doctor-patient relationship with you, nor does it have access to a complete medical history or physical examination conducted by a physician that would be necessary for a complete diagnosis and comprehensive treatment plan. Neither you nor your physician should rely solely on this guidance. Bolded result descriptions in "Comments" consider either the reference range or target range for the test result. Reference range refers to the Labcorp reference interval. Target range refers to the guideline-suggested goal. REFERENCES: National Kidney Foundation Kidney Disease Outcomes Quality Initiative (KDOQI) at www.kidney.org and Kidney Disease Improve Global Outcomes (KDIGO) at http://kdigo.org. Adapted from: https://www.niddk.nih.gov/-/media/Files/Health-Information/Health-Professionals/Kidney-Disease/Your_Kidney_Test_Results_EN.pdf