

Name: HART, JANE

DOB: 10.03.1949 Patient ID: 105850 ACC/AHA Risk Score: Patient Info:

Gender: F Fasting: Yes BMI:

Provider: VIKTOR BOUQUETTE MD 9 Dunwoody Park Ste 121 Dunwoody, GA 30338

Account No: 8429

AMENDED REPORT 08.27.2018

Accession No: T009129Q

Requisition No:

Report Date & Time: 05.17.2018 10:30 AM Received Date & Time: 05.17.2018 9:52 AM Collection Date & Time: 05.17.2018 09:38 AM

Test Name	Optimal	Borderline	High Risk	Notes	Previous Results
Lipid Tests					
Total Cholesterol		208			
	<200	200-240	>240 mg/dL		
Direct LDL-C		134			
	<100	100-160	>160 mg/dL		
HDL-C			36		
	>60	50-60	<50 mg/dL		
Triglycerides			203		
	<150	150-200	>200 mg/dL		
Non-HDL-C		172			
	<130	130-190	>190 mg/dL		
ApoB			122		
	<80	80-120	>120 mg/dL		
sdLDL-C ¹			43		
	<20	20-40	>40 mg/dL		
%sdLDL-C			32		
	<20	20-30	>30 %		
VLDL-C		38			
	<30	30-40	>40 mg/dL		
Lp(a)			58		
	<30	30-50	>50 mg/dL		
ApoA-1			131.6		
	>180	140-180	<140 mg/dL		
Lipid Ratios					
TC/HDL-C		5.8			
	<4	4-6	>6		
VLDL-C/TG	0.19				
	<0.2	0.2-0.3	>0.3		
ApoB/ApoA-1		0.9			
	<0.6	0.6-0.9	>0.9		
HDL-C/TG			0.18		
	>0.5	0.25-0.5	<0.25		
Inflammation Te		1			1
Fibrinogen	200				
i ibi iliogoli	<370	370-470	>470 mg/dL		
hs-CRP	0.3	010 410	/ / / / / / / / / / / / / / / / / / /		
110-0111	0.0				

Normalized Value (µmo	ol x 100/mmol of	Total Cholestero	l)		
Absolute Value (mg/L)			Normalized		Notes
Production Markers:	HIGH		Value	Value	
Lathosterol		V	269	5.6	
	90	160			
Desmosterol			111	2.3	
	70	90			
Absorption Markers:	BORDERLINE				
Beta-sitosterol	_		130	2.9	
	100	180			
Campesterol		V	218	4.7	
	150	260			
Cholesterol Balance	Score (Productio	n/Absorption)	1.4		
Over Absorber		V	Over P	roducer	
0.2	0.5	1.1			

Consideration: Consider lifestyle modification, statin and ezetimibe therapy.

MPO¹

<1.0

174

<470

1.0-3.0

470-539

>3.0 mg/L

≥540 pmol/L







Accession No: T009129Q

Specimen

Report Date & Time: 05.17.2018 10:30 AM

Name: HART, JANE

Patient ID: 105850

Gender: F

Provider: VIKTOR BOUQUETTE MD Account No: 8429

Test Name	Optimal	Borderline	High Risk	Notes	Previous Results
Metabolic Tests	3				
HbA1c	5.6				
	<5.7	5.7-6.4	>6.4 %		
HOMA-IR	1.3				
	<2	2-3	>3		
Glucose ²		108			
	70-99	100-125	<70 or >125		
	10 33	100-120	mg/dL		
Adiponectin ¹	14.0				
	>13	9-13	<9 μg/mL		
Test Name	Low	Optimal	High	Notes	Previous Results
Insulin ³		5		9	
	<5	5-15	>15 µU/mL		

Interpretation: BORDERLINE glucose indicates prediabetes as established by the ADA. Prediabetes is a major risk factor for metabolic syndrome and has been associated with increased risk of developing diabetes, hyperlipidemia, hypertension and CVD.

Consideration: Consider encouraging dietary modification supported by education and consider glucose lowering and/or insulin sensitizing medications. If indicated encourage weight reduction, smoking cessation, increased activity and control blood pressure.

Emit J. Shayla



Name: HART, JANE

Patient ID: 105850 Gender: F Provider: VIKTOR BOUQUETTE MD

Provider Account No: 8429 Specimen

Accession No: T009129Q

Report Date & Time: 05.17.2018 10:30 AM

Test Name	Optimal	Borderline	High	Interpretation	Notes	Previous Results
Boston Heart Fat	ttv Acid Ba	lance™ Test¹	J			
Saturated Fatty Acid Index	28.8			Saturated FA Index is OPTIMAL.		
	<30.0	30.0-33.0	>33.0 %			
Trans Fatty Acid Index			0.85	Trans FA Index is HIGH. Higher levels of plasma trans fatty acids are associated with an increased risk of CVD. Consider restricting dietary intake of fried foods, foods containing partially hydrogenated fats, shortening, or stick margarine, and replacing with plant based oils.		
	< 0.50	0.50-0.70	>0.70 %	onortoning, or each margaine, and replacing war plant bacca olici		
	Optimal	Borderline	Low			
Monounsaturated Fatty Acid Index			16.9	Monounsaturated FA Index is LOW. Higher plasma levels of MUFA have been associated with a lower risk of CVD. Consider increasing intake of almonds, avocado or plant based oils (including olive).		
	>22.0	19.0–22.0	<19.0 %			
Unsaturated/Saturated Ratio Index	2.37			Unsaturated/Saturated Ratio Index is OPTIMAL.		
	>2.25	2.00-2.25	<2.00			
Omega-3 Fatty Acid Index		4.05		Omega-3 FA Index is BORDERLINE. A lower Omega-3 FA index is associated with an increased risk for CVD. Eicosapentaenoic Acid (EPA) level is OPTIMAL. Docosahexaenoic Acid (DHA) level is OPTIMAL. The Omega-3 FA Index is the amount of EPA and DHA divided by total fatty acids. Consider recommending consumption of at least 2-3 meals of oily fish such as salmon, sardines, herring, tuna, and medical weekleyers of the bild welcoment.		
	>4.50	2.50-4.50	<2.50 %	divided by total fatty acids. Consider recommending consumption of at		
EPA	51.8			and mackerel weekly or a fish oil supplement.		
	>50.0	20.0-50.0	<20.0 μg/mL			
DHA	100.8					
	>100.0	60.0-100.0	<60.0 μg/mL	ALL L'ALA A A A A A A A A A A A A A A A		
ALA	38.0			Alpha Linolenic Acid (ALA) level is OPTIMAL. Maintain current level of dietary and/or supplemental intake of Omega-3 fatty acids.		
	>30.0	14.0–30.0	<14.0 μg/mL			
	Low	Mid	High			
Omega-6 Fatty Acid Index			47.5	Values are reported according to the lowest, middle and highest thirds of our reference population. Some authorities have recommended a goal > 0.20 for the Omega-3/Omega-6 Ratio Index. Some authorities indicate that an EPA/AA ratio of > 0.75 is optimal, usually only		
	<39.0	39.0-43.0	>43.0 %	achieved with supplementation.		
Linoleic Acid (LA)			1248.8			
	<930.0	930.0-1150.0	>1150.0 µg/mL			
Arachidonic Acid (AA)			429.2			
	<250.0	250.0-320.0	>320.0 µg/mL			
AA/EPA Ratio Index	0.27	8.30	40.50			
FDA/AA D-45- II	<6.67	6.67-12.50	>12.50			
EPA/AA Ratio Index	~n no	0.08-0.15	2.00			
Omega-3/Omega-6	<0.08	0.00-0.13	>0.15			
Ratio Index			3.00			
	< 0.07	0.07-0.10	>0.10			





Name: HART, JANE

Patient ID: 105850

Gender: F

Provider: VIKTOR BOUQUETTE MD

Account No: 8429

Specimen Accession No: T009129Q

Report Date & Time: 05.17.2018 10:30 AM

Previous Results **Test Name** Optimal Borderline High Risk Notes

Chemistry Tests								
Glucose ²		108						
	70-99	100-125	<70 or >125 mg/dL					

Test Name	Low	Normal	High	Notes	Previous Results
Iron Tests					
Ferritin			405		
	<15	15-150	>150 ng/mL		
Test Name	Optimal	Borderline	High Risk	Notes	Previous Results
O.U T I					

7.6				
<10	10-14	>14 µmol/L		
	1.38		6	
>1.40	0.70-1.40	<0.70 mg/L		
	<10	<10 10-14 1.38	<10 10-14 >14 μmol/L 1.38	<10 10-14 >14 μmol/L 6



05.17.2018

(Current)

28.8

0.85

16.9

2.37

4.05

51.8

100.8

38.0

47.5

1248.8

429.2

8.30

2.00

3.00

108

405

7.6

1.38

EPA

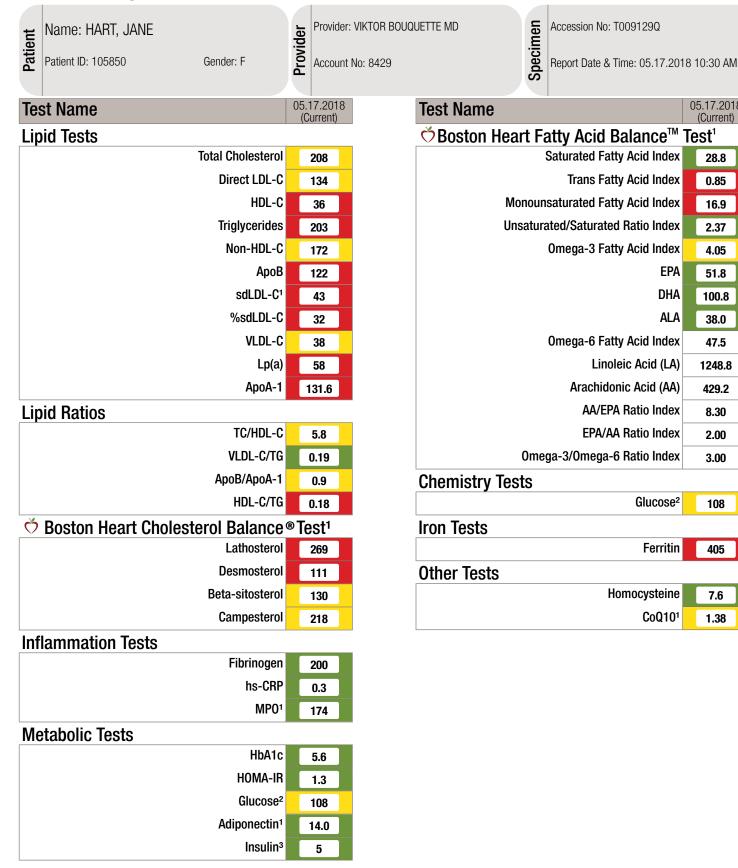
DHA

ALA

Glucose²

Ferritin

CoQ101







Patient ID: 105850

Name: HART, JANE

Gender: F

Provider: VIKTOR BOUQUETTE MD

Account No: 8429

Provider

Specimen

Accession No: T009129Q

Report Date & Time: 05.17.2018 10:30 AM

Notes

Footnotes

The intended use of this report is to provide an aid in the physician's treatment decisions. This report is intended for a physician or other qualified health care provider. Please consult with your physician regarding any questions.

1 This test was developed and its performance characteristics determined by Boston Heart Diagnostics. It has not been cleared or approved by the U.S. Food and Drug Administration (FDA). The FDA has determined that such clearance is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. Methods: HDL Map: Gel electrophoresis; Cholesterol Balance and Fatty Acid Balance: GC/MS; MPO: Immunoturbidometric; CoQ10: UPLC; sdLDL-C: Enzymatic colorimetric; Adiponectin: Latex turbidimetric immunoassay; LDL-P: NMR.

²A fasting glucose level of >125 mg/dL indicates the presence of diabetes mellitus, and a fasting glucose level of <70 mg/dL indicates hypoglycemia.

💶 = Critical Value, 🔺 = Alert Value, TNP = Test Not Performed, PEND = Test Result Pending, GSP = Glycated Serum Protein, ADA = American Diabetes Association

©2018 Boston Heart Diagnostics Corporation. All rights reserved. The Boston Heart Diagnostics logo, Boston Heart HDL Map, Boston Heart Cholesterol Balance, Boston Heart Prediabetes Assessment, and Boston Heart Fatty Acid Balance are trademarks or registered trademarks of Boston Heart Diagnostics Corporation. TaqMan® is a registered trademark of Roche Molecular Systems, Inc.



 $^{^{3}}$ A test result in the low range is normal in a non-diabetic, but low if a patient has diabetes (consistent with diabetes).

⁴Genetic analysis is performed by real time Polymerase Chain Reaction (PCR) using TagMan®probes. Amplified gene nucleotide sites: APOE - Apolipoprotein E, T471C rs429358, C609T rs7412; F5 - Coagulation Factor V, G1746A rs6025; F2 - Coagulation Factor 2, G20210A rs1799963; CYP2C19 (Clopidogrel response) -Cytochrome P450 2C19, G681A rs4244275, G636A rs4986893, C-806T rs12248560; SLCO1B1 (Statin Myopathy) - Solute Carrier Organic Anion Transporter Family, Member 1B1, T625C rs4149056. MTHFR — Methylenetetrahydrofolate reductase, C677T rs1801133, A1298C rs1801131. Limitations: Other rare mutations not detected by these assays may be present in some individuals.

 $^{^6}$ Test performed at 175 Crossing Boulevard, Framingham, MA 01702. CLIA#: 22D1083041. NYSD0H: 8729.

⁹High doses of biotin (>5mg/day) may interfere with assay results. Patient assumed to be refraining from biotin supplementation for at least 3 days prior to blood draw.

^{*} Tests performed with alternative methodologies are not displayed for comparative purposes.