

	Collection Time:	Specimen ID:
en	9:00 am	17032101190
Ε	Collection Date:	Report Type:
eci	3/15/2017	COMPLETE
٥	Received Date:	Report Date:
S	3/21/2017	3/23/2017

Requesting Provider:
MICHELLE MURPHY, FNP
PEAK PERFORMANCE
1707 3RD STREET SE
PUYALLUP, WA 98372
Client ID:
56-98371-18-0003971

L	aboratory Test	Notes	High Risk	Intermediate Risk	Optimal	High Risk Range	Intermediate Risk Range	Optimal Range	Previous Results 3/28/2016
	Total Cholesterol (mg/dL)				197	≥ 240	200 - 239	< 200	230
<u>s</u>	LDL-C Direct (mg/dL)				89	≥ 130 CHD & CHD risk eq. > 100	100 - 129 CHD & CHD risk eq. 70 - 100	< 100 CHD & CHD risk eq. < 70	128
Lipids	HDL-C (mg/dL)				98	< 50		≥ 50	97
	Triglycerides (mg/dL)				41	> 199	150 - 199	< 150	85
	Non-HDL-C (mg/dL) (calculated)				99	≥ 160	130 - 159	< 130	133
and	Apo B (mg/dL)			84		≥ 100	81 - 99	≤ 80	89
ticles teins	LDL-P (nmol/L)§, by NMR				875	≥ 1360	1020 - 1359	< 1020	1546
Lipoprotein Particles Apolipoproteins	Small LDL-P (nmol/L) [§] , by NMR					> 1000	501 - 1000	< 501	258
prote Apoli	HDL-P (μmol/L) [§] , _{by NMR}				46.8	≤ 34.0	34.1 - 38.0	> 38.0	48.4
Lipo	Lp(a)-P (nmol/L)⁵				< 50	> 125	75 - 125	< 75	< 50
no/ ر	Fibrinogen (mg/dL)					< 126 or > 517	438 - 517	126 - 437	344
nati	hs-CRP (mg/L)				< 0.3	> 2.9	1.0 - 2.9	< 1.0	0.5
Inflammation/ Oxidation	Lp-PLA₂ (ng/mL)⁵				190	> 383	291 - 383	< 291	157
Infl	Myeloperoxidase (pmol/L) ⁵					≥ 332	256 - 331	≤ 255	187
tion	Asymmetric Dimethylarginine (ng/mL) [§]					> 108	97 - 108	< 97	92
<u></u>	Symmetric Dimethylarginine (ng/mL) ⁵					> 104	88 - 104	< 88	81
	L-arginine (ng/mL)§					< 4500 or > 22500		4500 - 22500	16204
Endot	Asymmetric Dimethylarginine/Arginine Ratio (calculated)					> 9.8	7.8 - 9.8	< 7.8	5.7

Lab Notes: Unable to quantitate small LDL-P. **Coenzyme Q10, Total** unable to perform: Specimen stability exceeded. **Sedimentation Rate** unable to perform: Specimen stability exceeded.

Provider Notes:

www.truehealthdiag.com

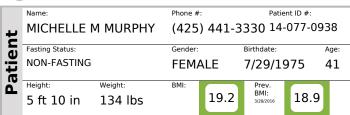
Patient ID #: MICHELLE M MURPHY (425) 441-3330 14-077-0938 **Patient** NON-FASTING **FEMALE** 7/29/1975 41 Height: Weight: BMI: 5 ft 10 in 19.2 18.9 134 lbs

	Collection Time:	Specimen ID:
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<u>N</u>	3/21/2017	3/23/2017

Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372 56-98371-18-0003971

L	aboratory Test	Notes	High Risk	Intermediate Risk	Optimal	High Risk Range	Intermediate Risk Range	Optimal Range	Previous Results 3/28/2016	
Myocardial re/Stress/Function	Galectin-3 (ng/mL)					> 25.9	17.9 - 25.9	< 17.9	7.6	
Myocardial Structure/Stress/Function	NT-proBNP (pg/mL)					> 449	125 - 449	< 125	42	
Lipoprotein Genetics	Apolipoprotein E (T471C, C609T) [§] rs429358, rs7412					2/2 (~1-2%	ted Genotype Frec 6), 2/3 (~15%), 2/ 6), 3/4 (~25%), 4/	4 (~1-2%),	3/3	
Coagulation Genetics	MTHFR (C677T) [§] rs1801133 (Methylenetetrahydrofolate Reductase)						ted Genotype Fred b), C/T (~39.8%), T		C/C	
Coagu	MTHFR (A1298C) ⁵						ted Genotype Fred 6), A/C (~30%), A/		A/A	
	1,5-anhydroglucitol (μg/mL)			13.7		< 12.6	12.6 - 16.6	> 16.6	13.1	1
	25-hydroxy-Vitamin D (ng/mL)					≤ 14	15 - 29	30 - 100	55	
ي	25-hydroxy-Vitamin D (ng/mL)				49	< 20	20 - 29	30 - 100		1
Metabolic	Uric Acid (mg/dL)				4.8	≥ 8.0	7.0 - 7.9	2.0 - 6.9	3.6	
Meta	TSH (μlU/mL)				0.96	< 0.27 or > 4.20		0.27 - 4.20	1.45	
	Homocysteine (µmol/L)					> 13	11 - 13	< 11	6	
	Vitamin B ₁₂ (pg/mL)				1065	< 211	211 - 400	> 400	914	
	CoQ10 (μg/mL) [§]					< 1.11	1.11 - 2.00	> 2.00 Target of therapy for patients on statins is > 2.0 µg/mL.	2.49	

Lab Notes: Unable to quantitate small LDL-P. Coenzyme Q10, Total unable to perform: Specimen stability exceeded. Sedimentation Rate unable to perform: Specimen stability exceeded.



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ovider	Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372
Pr	Client ID: 56-98371-18-0003971

L	aboratory Test	Notes	High Risk	Intermediate Risk	Optimal	High Risk Range	Intermediate Risk Range	Optimal Range	Previous Results 3/28/2016
TSH is a	TSH is analyzed using reagents from Roche Diagnostics by electrochemiluminescence immunoassay. These values should not be used in conjunction with values from other reagent manufacturers or methodologies.								
Metabolic	Cortisol (μg/dL)					Afternoo	hours 7-10 a.m.: on hours 4-8 p.m.: known collection ti	2.3-11.9	16.0
Meta	Cortisol (μg/dL)				8.5	Afternoo	hours 6-10 a.m.: on hours 4-8 p.m.: known collection ti	2.7-10.5	
Renal	Creatinine, serum (mg/dL)		1.1			> 0.9		0.5 - 0.9	0.8

Lab Notes: Unable to quantitate small LDL-P. **Coenzyme Q10, Total** unable to perform: Specimen stability exceeded. **Sedimentation Rate** unable to perform: Specimen stability exceeded.

Phone #: Patient ID #: (425) 441-3330 14-077-0938 MICHELLE M MURPHY Patient Fasting Status: Age: **NON-FASTING FEMALE** 7/29/1975 41 Weight: Height BMI: 19.2 18.9 5 ft 10 in 134 lbs

	Collection Time:	Specimen ID:
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1707 3RD STREET SE
PUYALLUP, WA 98372
Client ID:
56-98371-18-0003971

L	aboratory Test	Notes	Hyper	Optimal	Нуро	Hyper Range	Optimal Range	Hypo Range	Previous Results 3/28/2016
ers	Campesterol (μg/mL)§			3.72		≥ 4.44	2.11 - 4.43	≤ 2.10	6.00
Markers	Campesterol Ratio (10 ² mmol/mol Cholesterol)			182		≥ 241	115 - 240	≤ 114	252
tion	Sitosterol (µg/mL)§			2.87		≥ 3.18	1.43 - 3.17	≤ 1.42	3.83
Absorption	Sitosterol Ratio (10 ² mmol/mol Cholesterol)			136		≥ 169	76 - 168	≤ 75	155
A P	Cholestanol (µg/mL)§		3.49			≥ 3.48	2.02 - 3.47	≤ 2.01	3.60
Sterol	Cholestanol Ratio (10 ² mmol/mol Cholesterol)			176		≥ 195	117 - 194	≤ 116	156
erol Synthesis Markers	Desmosterol (μg/mL) [§]			1.07		≥ 1.28	0.50 - 1.27	< 0.50	1.28
Sterol Sy Mark	Desmosterol Ratio (10 ² mmol/mol Cholesterol)			55		≥ 65	31 - 64	≤ 30	56

Results of the sterol analysis should be used in conjunction with atherogenic lipid and lipoprotein measurements (LDL-P, Apo B and LDL-C) to determine the most appropriate therapy for patients. If the patient has elevated atherogenic lipoproteins, regardless of the sterol concentrations, the first line therapy should be LDL lowering with a statin, or combination therapy (statin plus niacin, fibrate, ezetimibe) if appropriate. Sterol absorption markers may be used to help select the most appropriate combination therapy. Based on the sterol analysis, it is recommended that the following changes in lipid lowering therapy be performed:

- If sterol absorption markers (campesterol and/or sitosterol) are elevated with normal or low desmosterol, sterol absorption inhibition (ezetimibe, colesevelam, plant stanols, etc.) should be considered in combination with a statin to lower atherogenic lipoproteins. For mild elevations of lipoproteins, monotherapy with a sterol absorption inhibitor could be considered if sterol absorption markers are increased.
- If desmosterol is elevated and cholesterol absorption markers are normal or decreased, statin therapy alone or combination therapy (statin plus niacin or fibrate), if appropriate, will be most effective. Sterol absorption inhibition is not recommended.
- If both sterol absorption markers and desmosterol are increased, combination therapy with statin and sterol absorption inhibition will most effectively lower atherogenic lipoproteins.

Lab Notes: Unable to quantitate small LDL-P. **Coenzyme Q10, Total** unable to perform: Specimen stability exceeded. **Sedimentation Rate** unable to perform: Specimen stability exceeded.

	Name:		Phone #	:	Patie	ent ID #:	
¥	MICHELLE N	Y (425) 441-3330 14-077-093					
e	Fasting Status:		Gender:		Birthdate:		Age:
atie	NON-FASTING	FEMALE 7/29/1975			975	41	
Ď.	Height:	Weight:	BMI:		Prev.		
	5 ft 10 in	134 lbs		19.2	BMI: 3/28/2016	18.9	

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ovider	Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372
<u>_</u>	Client ID:
	56-98371-18-0003971

Diagnosis

Underlying Mechanisms

Glycemic Control

Normal

Comments:

Glucose and hemoglobin A1c are in the normal range and are consistent with normoglycemia. Elevated fructosamine suggests recent (approximately the past 2 weeks) sustained hyperglycemia. There is some evidence of postprandial glucose elevations.

Potential Treatment Suggestions:

If HbA1C or glucose are abnormal, follow American Diabetes Association (ADA) guidelines

Insulin Resistance Comments:

There may be some evidence of insulin resistance.

Potential Treatment Suggestions:

If there are features of insulin resistance, diet and lifestyle modifications should be considered (see Clinical Treatment Suggestions). Per the American Diabetes Association (ADA), pharmaceutical intervention may also be appropriate if patient demonstrates ADA-defined levels of glucose and HbA1c abnormality.

Beta Cell Functionality/ Strain

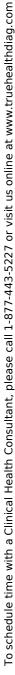
Comments:

There is no evidence of hyperinsulinemia or beta cell dysfunction.

Potential Treatment Suggestions:

If there are features of impaired beta cell function, diet and lifestyle modifications should be considered (see Clinical Treatment Suggestions). Per the American Diabetes Association (ADA), pharmaceutical intervention may also be appropriate if patient demonstrates ADA-defined levels of glucose and HbA1c abnormality.

*Medications and fasting status may have an effect on test results. There are no medications specifically FDA approved for the treatment of pre-diabetes or insulin resistance.



Diabetes & Prediabetes

Ħ	Name: MICHELLE M MURPHY		Phone # (425	-	Patie 330 14-	nt ID #: ·077-093	38
atien	Fasting Status: NON-FASTING		Gender:	ALE	Birthdate: 7/29/19		^{Age:}
P.	Height: 5 ft 10 in	Weight: 134 lbs	BMI:	19.2	Prev. BMI: 3/28/2016	18.9	

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ovider	Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372
P	Client ID: 56-98371-18-0003971

*Ranges of ferritin used for assessment of insulin resistance and diabetes risk differ from reference ranges used for diagnosis of conditions specifically related to iron nutrient status, such as iron deficiency or hemochromatosis.

L	aboratory Test	Notes	High Risk	Intermediate Risk	Optimal	High Risk Range	Intermediate Risk Range	Optimal Range	Previous Results 3/28/2016
	Glucose (mg/dL)				96	> 125	100-125	70 - 99	97
<u> </u>	HbA1c (%)				5.2	≥ 6.5	5.7 - 6.4	≤ 5.6	5.3
Glycemic Control	Estimated Average Glucose (mg/dL) (calculated)				102.5	≥ 139.9	116.9 - 139.8	≤ 116.8	105.4
cem	Fructosamine (µmol/L)			336		> 346	302 - 346	< 302	324
Gly	Glycation Gap				-2.32	> 0.77	0.45 - 0.77	< 0.45	
	Postprandial Glucose Index			7.3		> 7.9	6.0 - 7.9	< 6.0	
	Leptin (ng/mL)				2	> 43	20 - 43	< 20	1
d)	Leptin:BMI Ratio				0.11	> 1.17	0.66 - 1.17	< 0.66	
Resistance	Adiponectin (µg/mL)				21	< 10	10 - 14	> 14	
sist	Free Fatty Acid (mmol/L)				0.37	> 0.70	0.60 - 0.70	< 0.60	0.49
a i	Ferritin (ng/mL) *				47	> 108	61 - 108	< 61	
Insulin	α-hydroxybutyrate (μg/mL)§		9.7			> 5.7	4.5 - 5.7	< 4.5	3.4
Inst	Oleic Acid (µg/mL)§				21	> 79	60 - 79	< 60	33
	Linoleoyl-GPC (µg/mL)§				31.2	< 10.5	10.5 - 13.0	> 13.0	26.4
	HOMA-IR (calculated)				1.0	> 4.2	2.6 - 4.2	< 2.6	
_	In sulling (coll for L)					. 12	10 11	2.0	
Cell Function	Insulin (μU/mL)				4	≥ 12	10 - 11	3 - 9	5
oun	Proinsulin (pmol/L)				6	> 16	8 - 16	< 8	7
=	C-peptide (ng/mL)				1.7	> 4.6	3.1 - 4.6	1.0 - 3.0	1.7
	Proinsulin:C-peptide Ratio				3.3	> 4.9	3.6 - 4.9	< 3.6	
Beta	Anti-GAD (IU/mL)				< 5	> 5 Positive		≤ 5 Negative	< 5

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Electrolytes	Result	Flag	Reference Interval
Na+ (mmol/L)	138		133 - 145
K+ (mmol/L)	5.4	Н	3.5 - 5.3
CI- (mmol/L)	101		98 - 110
CO ₂ (mmol/L)	26		19 - 31
Anion Gap (calculated)	11		6 - 18
Calcium (mg/dL)	10.0		8.8 - 10.5
Magnesium (mg/dL)	2.1		1.6 - 2.4

Liver	Result	Flag	Reference Interval
ALT / GPT (U/L)	12		< 34
AST / GOT (U/L)	19		< 33
ALP (U/L)	26	L	< 16 years: 62 - 356 16 - 20 years: 37 - 119 21 - 90 years: 35 - 125 > 90 years: 37 - 129
Total Bilirubin (mg/dL)	0.4		Up to 1.2

Renal	Result	Flag	Reference Interval
Creatinine, serum (mg/dL)	1.1	Н	0.5 - 0.9
BUN (mg/dL)	20		6 - 20
BUN:Creatinine Ratio (calculated)	19		< 11 years: 14 - 34 11 - 15 years: 10 - 30 16 - 20 years: 9 - 25 21 - 70 years: 10 - 27 > 70 years: 10 - 29

Anemia	Result	Flag	Reference Interval
Ferritin (ng/mL)	47		13 - 150

Others	Result	Flag	Reference Interval	
				1
Albumin (g/dL)	4.8		3.7 - 5.1	l
% Albumin (calculated)	66		54 - 71	
Globulin (g/dL) (calculated)	2.5		1.9 - 3.5	
Albumin:Globulin Ratio (calculated)	1.90		1.15 - 2.50	
Total Protein (g/dL)	7.3		6.1 - 8.0	

Thyroid	Result	Flag	Reference Interval
TSH (μlU/mL)	0.96		0.27 - 4.20
T4 (μg/dL)	6.3		4.5 - 11.7
T4, free (ng/dL)	1.43		0.93 - 1.70
T3 (ng/dL)	94		80 - 200
T3, free (pg/mL)	3.1		> 19 yrs - 2.0 - 4.4
Reverse T3 (ng/dL)§	13		8 - 24
T uptake (TBI)	0.94		0.80 - 1.30
Anti-Thyroglobulin Antibody (IU/mL) [‡]	15		< 115
Anti-Thyroid Peroxidase Antibody (IU/mL)	< 10		< 34

Male and Female Hormones	Result	Flag	Reference Interval
Estrone (pg/mL)§	22		Post-menopausal: 10 - 55 Pre-menopausal: 13 - 135

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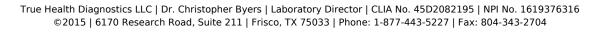
Ħ	Name: MICHELLE I	M MURPHY	Phone # (425	ent ID #: -077-09	938		
atien	Fasting Status: NON-FASTING		Gender:	ALE	Birthdate: 7/29/1975		Age:
Pa	Height: 5 ft 10 in	Weight: 134 lbs	BMI:	19.2	Prev. BMI: 3/28/2016	18.9	

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CBC with Automated Differential / Platelet	Result	Flag	Reference Interval
WBC (x10 ³ /μL)	4.9		4.0 - 10.5
RBC (x10 ⁶ /μL)	4.3		3.8 - 5.1
Hemoglobin (g/dL)	13.1		11.5 - 15.0
Hematocrit (%)	42		34 - 44
MCV (fL)	99	Н	80 - 98
MCH (pg)	31		27 - 34
MCHC (g/dL)	31	L	32 - 36
RDW (%)	13.9		11.7 - 15
Platelets (x10³/μL)	315		140 - 415
Neutrophils (%)	67		40 - 74
Lymphocytes (%)	31		14 - 46
Monocytes (%)	0	L	4 - 13
Eosinophils (%)	1		0 - 7
Basophils (%)	1		0 - 3
Neutrophils (absolute) (x10³/μL)	3.3		1.8 - 7.8
Lymphocytes (absolute) (x10³/μL)	1.5		0.7 - 4.5
Monocytes (absolute) (x10³/μL)	0.0	L	0.1 - 1.0
Eosinophils (absolute) (x10³/μL)	0.0		0.0 - 0.4
Basophils (absolute) (x10³/μL)	0.1		0.0 - 0.2
lmmature Granulocytes (absolute) (x10³/µL)	0.0		0.0 - 0.1

Lab Notes: Unable to quantitate small LDL-P. **Coenzyme Q10, Total** unable to perform: Specimen stability exceeded. **Sedimentation Rate** unable to perform: Specimen stability exceeded.





Autoimmune

4	Name: MICHELLE I	Phone #: Patient ID #: (425) 441-3330 14-077-0938					
atien	Fasting Status: NON-FASTING	Gender:	ALE			Age:	
Pa	Height: Weight: 5 ft 10 in 134 lbs		BMI:	19.2	Prev. BMI: 3/28/2016	18.9	

en	Collection Time: 9:00 am	Specimen ID: 17032101190				
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For autoimmune testing, hs-CRP assay is utilized to measure CRP. Standard reference intervals for both hs-CRP and CRP are reported.

Autoimmune	Result	Flag	Reference Interval
hs-CRP (mg/L)	< 0.3		< 5.0
Rheumatoid Factor (IU/mL)	< 10		≤ 14
Antibody to Cyclic Citrullinated Peptide (anti-CCP) (U/mL) ⁺	< 8.0		Positive: ≥ 17.0 Negative: <17.0

ANA Screen	Result Flag		Reference Interval		
ANA Screen	Negative		Negative		

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TRUE HEALTH DIAGNOSTICS

Laboratory Result Trends

Name: Phone #: Patient ID #:

MICHELLE M MURPHY (425) 441-3330 14-077-0938

Fasting Status: Gender: Birthdate: Age:
NON-FASTING FEMALE 7/29/1975 41

Height: Weight: BMI: Prev. BMI: S7/28/2016 18.9

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	eight: Weight: BMI: ft 10 in 134 lbs	19.2	Prev. BMI: 3/28/2016	18.9		Received 3/21/2		Client 56-	98371-18-000)3971
		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
	Total Cholesterol (mg/dL)	201	210	233	230	197		≥ 240	200 - 239	< 200
Lipids	LDL-C Direct (mg/dL)	103	131	150	128	89		≥ 130 CHD & CHD risk eq. > 100	100 - 129 CHD & CHD risk eq. 70 - 100	< 100 CHD & CHD risk eq. < 70
Ξ	HDL-C (mg/dL)	95	84	85	97	98		< 50		≥ 50
	Triglycerides (mg/dL)	136	97	97	85	41		> 199	150 - 199	< 150
	Non-HDL-C (mg/dL) (calculated)	107	126	148	133	99		≥ 160	130 - 159	< 130
		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
	Apo B (mg/dL)	71	98	110	89	84		≥ 100	81 - 99	≤ 80
Þ	LDL-P (nmol/L)§, by NMR	1057	1503	1957	1546	875		≥ 1360	1020 - 1359	< 1020
s ar	Small LDL-P (nmol/L)§, by NMR	< 200	302	816	258			> 1000	501 - 1000	< 501
ticle	sdLDL-C (mg/dL)§	25					•	> 30	21 - 30	< 21
in Particles poproteins	Apo A-I (mg/dL)	191					•	< 130	130 - 150	> 150
ein	HDL-P (μmol/L) [§] , by NMR	35.7	41.2	49.8	48.4	46.8		≤ 34.0	34.1 - 38.0	> 38.0
prote Apoli	HDL2-C (mg/dL)§	46					•	≤ 12	13 - 16	≥ 17
Lipoprotein Particles and Apolipoproteins	Apo B:Apo A-l Ratio (calculated)	0.37					•	≥ 0.81	0.61 - 0.80	≤ 0.60
	Lp(a) Mass (mg/dL)	6					•	≥ 30		< 30
	Lp(a)-P (nmol/L)§		< 50	< 50	< 50	< 50	•—•	> 125	75 - 125	< 75
		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
<u></u>	Fibrinogen (mg/dL)	298					•	< 100 or > 464	391 - 464	100 - 390
lammatio Oxidation	Fibrinogen (mg/dL)				344		•	< 126 or > 517	438 - 517	126 - 437
amm xida	hs-CRP (mg/L)	0.4	< 0.3	< 0.3	0.5	< 0.3		> 2.9	1.0 - 2.9	< 1.0
Inflammation, Oxidation	Lp-PLA ₂ (ng/mL) [§]			260	157	190		> 383	291 - 383	< 291
	Myeloperoxidase (pmol/L)§				187		•	≥ 332	256 - 331	≤ 255

l		Myeloperoxidase (pmol/L)§				187		•	≥ 332	256 - 331	≤ 255
Ayocardial	lei .		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
	card	Galectin-3 (ng/mL)	5.4			7.6			> 25.9	17.9 - 25.9	< 17.9
	Ayo St	NT-proBNP (pg/mL)	21			42			> 449	125 - 449	< 125



Laboratory Result Trends

Name: Phone #: Patient ID #:

MICHELLE M MURPHY (425) 441-3330 14-077-0938

Fasting Status: Gender: Birthdate: Age:
NON-FASTING FEMALE 7/29/1975 41

Height: Weight: BMI: 7/29/1975 41

Height: Weight: BMI: 19.2 BMI: 3/28/2016 18.9

	Collection Time:	Specimen ID:
en	9:00 am	17032101190
Ε	Collection Date:	Report Type:
eci	3/15/2017	COMPLETE
<u>ŏ</u>	Received Date:	Report Date:
S	3/21/2017	3/23/2017

Requesting Provider:
MICHELLE MURPHY, FNP
PEAK PERFORMANCE
1707 3RD STREET SE
PUYALLUP, WA 98372

Client ID:
56-98371-18-0003971

		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
	Insulin (μU/mL)	38	12	15	5	4		≥ 12	10 - 11	3 - 9
	C-peptide (ng/mL)			3.5	1.7	1.7		> 4.6	3.1 - 4.6	1.0 - 3.0
	Free Fatty Acid (mmol/L)	0.49		0.38	0.49	0.37		> 0.70	0.60 - 0.70	< 0.60
	Glucose (mg/dL)	164	70	101	97	96		> 125	100-125	70 - 99
	HbA1c (%)	5.4	5.3	5.2	5.3	5.2		≥ 6.5	5.7 - 6.4	≤ 5.6
U	1,5-anhydroglucitol (µg/mL)				13.1	13.7		< 12.6	12.6 - 16.6	> 16.6
Metabolic	Estimated Average Glucose (mg/dL) (calculated)	108.3	105.4	102.5	105.4	102.5		≥ 139.9	116.9 - 139.8	≤ 116.8
Σ	25-hydroxy-Vitamin D (ng/mL)	30	65	49	55			≤ 14	15 - 29	30 - 100
	Uric Acid (mg/dL)	2.8	3.7	5.1	3.6	4.8		≥ 8.0	7.0 - 7.9	2.0 - 6.9
	TSH (μlU/mL)	1.24	1.00	0.94	1.45	0.96		< 0.27 or > 4.20		0.27 - 4.20
	Homocysteine (µmol/L)	6			6		•——•	> 13	11 - 13	< 11
	Vitamin B ₁₂ (pg/mL)		748	1612	914	1065		< 211	211 - 400	> 400
	Fructosamine (µmol/L)			305	324	336		> 346	302 - 346	< 302
	Proinsulin (pmol/L)			13	7	6		> 16	8 - 16	< 8

		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
	Cystatin C (mg/L)	0.54					•	≥ 1.04	0.96 - 1.03	≤ 0.95
Renal	Estimated Glomerular Filtration Rate (eGFR, mL/min/1.73m2)	> 150					•	< 60	60 - 89	> 89
	Creatinine, serum (mg/dL)	0.8	0.9	1.0	0.8	1.1		> 0.9		0.5 - 0.9

		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
Acids	HS-Omega-3 Index® (RBC EPA+DHA)ª	5.8	9.1	8.8	8.0	9.0		< 4.0%	4.0% - 8.0%	> 8.0%
ega /	Omega-3 Total	8.3	12.6	12.4	11.5	12.3			0.1% - 14.1%	
Ome	Omega-6 Total	33.5	29.2	29.6	30.0	29.6			28.6% - 44.5%	
	Trans Total	1.1	0.9	0.7	0.7	0.7			<0.1% - 1.8%	



12 / 14

Laboratory Result Trends



	Collection Time:	Specimen ID:
en	9:00 am	17032101190
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eci	3/15/2017	COMPLETE
٥	Received Date:	Report Date:
S	3/21/2017	3/23/2017

ovider	Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372
Pr	Client ID: 56-98371-18-0003971

		3/14	5/15	12/15	3/16	3/17	Trend Line	High Risk Range	Intermediate Risk Range	Optimal Range
	Dehydroepiandrosterone sulfate (μg/dL)	175	160	185	147			15 - 19 yrs: 65 - 36 20 - 24 yrs: 148 - 4 25 - 34 yrs: 99 - 34 35 - 44 yrs: 61 - 33 45 - 54 yrs: 35 - 25 55 - 64 yrs: 19 - 24 65 - 74 yrs: 9 - 205 > 74 yrs: 12 - 15	07 0 7 6 6	
ormones	Estradiol (pg/mL)	196.4	73.2					Women: Follicular phase: 12 Ovulation phase: 85 Luteal phase: 43. Postmenopause: < 1st Tri. Pregnancy: 21 Girls (1-10 years): 6.0 - 27.0	5.8 - 498.0 8 - 211.0 54.7	
and Female Hormones	Estradiol (pg/mL)			47.7	59.0			Ovulation phase: 41.0	y: y:	
Male	FSH (mlU/mL)	9.3	3.6	3.1	7.7			Follicular phase 3.5 Ovulation phase 4.7 - Luteal phase 1.7 - Postmenopause 25.8	- 21.5 7.7	
	LH (mlU/mL)	31.0	4.9	4.2	6.0		\	Follicular phase 2.4 - Ovulation phase 14.0 Luteal phase 1.0 - Postmenopause 7.7) - 95.6 11.4	
	Progesterone (ng/mL)	1.03	10.54	1.59	0.38			Follicular phase: 0.2 – Ovulation phase: 0.8 – Luteal phase: 1.7 – 2 Postmenopause: 0.1 – 0	3.0 27	
	Testosterone (ng/dL)	43	12	< 12	< 12				12 - 82	

Omega 3 and Omega 6 Fatty Acids Profile

	Name:		:	Patie	ent ID #:			
¥	MICHELLE I	M MURPHY	(425) 441-3330 14-077-09					
7	Fasting Status:		Gender:		Birthdate:	Ag	ge:	
atie	NON-FASTING		FEMA	4LE	7/29/19	975 4	1	
10	Height:	Weight:	BMI:		Prev.			
	5 ft 10 in	134 lbs		19.2	BMI: 3/28/2016	18.9		

	Collection Time:	Specimen ID:
en	9:00 am	17032101190
Ε	Collection Date:	Report Type:
eci	3/15/2017	COMPLETE
ā	Received Date:	Report Date:
S	3/21/2017	3/23/2017

ovider	Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372
P	Client ID: 56-98371-18-0003971

Laboratory Test	Notes	High Risk	Intermediate Risk	Optimal	High Risk Range	Intermediate Risk Range	Optimal Range	Previous Results 3/28/2016
HS-Omega-3 Index® (RBC EPA+DHA)a				9.0	< 4.0%	4.0% - 8.0%	> 8.0%	8.0

Omega-3 Fatty Acids									
Fatty Acids	Range	Current	Previous						
Omega-3 Total	0.1% - 14.1%	12.3%	11.5%						
Alpha-Linolenic (ALA)§	0.1% - 0.4%	0.1%	0.2%						
Docosapentaenoic (DPA) [§]	0.6% - 4.1%	3.2%	3.3%						
Eicosapentaenoic (EPA)§	0.1% - 2.5%	2.3%	1.6%						
Docosahexaenoic (DHA)§	0.1% - 8.4%	6.6%	6.4%						

Omega-6 Fatty Acids				
Fatty Acids	Range	Current	Previous	
Omega-6 Total	28.6% - 44.5%	29.6%	30.0%	
Arachidonic (AA) [§]	10.5% - 23.3%	13.1%	13.2%	
Linoleic (LA)§	4.6% - 21.3%	12.1%	12.1%	

Other Fatty Acids				
Fatty Acids	Range	Current	Previous	
cis-Monounsaturated Total	11.5% - 20.5%	15.7%	15.4%	
Saturated Total	36.6% - 42.0%	41.7%	42.4%	
Trans Total	<0.1% - 1.8%	0.7%	0.7%	

Content of EPA and DHA (mg/3 oz serving) in Fish1

Higher Omega-3	EPA	DHA	EPA+DHA
Herring, Pacific	1056	751	1807
Anchovy (canned in oil, European, drained solids)	649	1099	1748
Herring, Atlantic	773	939	1712
Salmon, Atlantic ²	468	1227	1695
Salmon, Coho ²	462	903	1365
Tuna, Bluefin	309	970	1279
Herring, Atlantic (pickled)	717	464	1181
Mackerel (canned, drained solids)	369	677	1046
Salmon, Sockeye	353	690	1043
Salmon, Chum (canned)	402	597	999
Salmon, Pink (canned, total can contents)	275	569	844
Sardines (canned in oil, Atlantic, drained solids w/bone)	402	433	835

Intermediate Omega-3	EPA	DHA	EPA+DHA
Swordfish ³	108	656	764
Rainbow Trout (farmed) ⁴	220	524	744
Tuna, White (canned in water, w/out salt) ³	198	535	733
Sea Bass	175	473	648
Pollock, Atlantic	77	383	460
Oysters (farmed, eastern) ⁴	195	179	374
Crab, King (cooked, moist heat)	251	100	351
Walleye	94	245	339
Crab, Dungeness (cooked, moist heat)	239	96	335
Flat Fish (flounder/sole)	143	112	255
Clams (cooked, moist heat)	117	124	241
Shrimp (mixed, cooked, moist heat)	115	120	235
Tuna, Light (canned, w/out salt)	40	190	230

Lower Omega-3	EPA	DHA	EPA+DHA
Halibut, Atlantic and Pacific	68	132	200
Northern Lobster (cooked, moist heat)	99	66	165
Scallops (cooked, steamed)	61	88	149
Catfish ²	51	88	139
Haddock	43	93	136
Cod, Pacific	36	100	136
Cod, Atlantic	3	131	134
Mahi-Mahi (dolphin fish)	22	96	118
Tilapia	4	110	114
Orange Roughy	5	21	26

¹From the USDA Nutrient Database. Values are for fish cooked with dry heat unless otherwise noted.
²This value averages EPA+DHA from farmed and wild fish.
³Because of the possibility for mercury contamination, the FDA and Environmental Protection Agency recommend that these fish (along with king mackerel and tilefish) not be consumed by women who are already or

^aThe HS-Omega-3 Index cutpoints are based on Harris and von Shacky, Preventive Medicine 2004;39:212-220.

are trying to become pregnant, nursing mothers, and children under the age of two. For all other people, the intake of these fish should be limited to 6 oz. per week (or 12 oz. per week for albacore tuna).

4Although there has been some concern regarding the presence of small amounts of environmental pollutants in some types of farmed fish, the overall health benefit from the omega-3 fatty acids present in these fish has been calculated to far outweigh the risks (JAMA, 2006;296:1885-1899).



+	Name: MICHELLE M MURPHY		Phone #: Patient ID (425) 441-3330 14-07			
itien	Fasting Status: NON-FASTING		Gender:	ALE	Birthdate: 7/29/19	Age: 975 41
Pa	Height: 5 ft 10 in	Weight: 134 lbs	BMI:	19.2	Prev. BMI: 3/28/2016	18.9

	Collection Time:	Specimen ID:
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ovider	Requesting Provider: MICHELLE MURPHY, FNP PEAK PERFORMANCE 1707 3RD STREET SE PUYALLUP, WA 98372
P	Client ID: 56-98371-18-0003971

Comments:

Apolipoprotein B concentration is increased. Studies have shown that elevated apoB concentration is associated with increased risk for coronary heart disease even in the presence of optimal LDL cholesterol values.

ApoE genotype is 3/3. Apolipoprotein E2 and E3 patients respond well to statin drugs, such as atorvastatin, pravastatin, or lovastatin Omega-3 fatty acid supplementation has been shown to benefit apoE2 and apoE3 patients. If the patient also has insulin resistance, a low carbohydrate or Mediterranean diet may be appropriate. Therapy should be individualized.

This patient has the normal or wild-type genotype for the MTHFR polymorphisms C677T (C/C) and MTHFR A1298C (A/A). Patients with this genotype combination are expected to have normal enzyme activity.

All SNP genotyping tests performed at True Health Diagnostics, Richmond, VA use Biosearch Technologies BHQplus chemistry and are greater than 99% accurate. As with all PCR-based tests, this method is subject to rare interference by factors such as inhibitors and low quality or quantity of DNA. If present, the interference usually yields no result, rather than an inaccurate one. Very infrequent mutations or polymorphisms occurring in primer or probe binding regions may also affect testing and could produce an erroneous result. True Health Diagnostics recommends patients and physicians discuss genetic counseling options when reviewing the implications of genetic test results. Note: Non-carrier = Wildtype.

[†] Anti-Thyroglobulin Antibody is analyzed using reagents from Roche Diagnostics by electrochemiluminescence immunoassay. These values should not be used in conjunction with values from other reagent manufacturers or methodologies.

*Anti-CCP results were obtained with the Elecsys Anti-CCP electrochemiluminescence immunoassay. Results from assays of other manufacturers cannot be used interchangeably.

^{††}The comments, videos, and other educational information provided by True Health Diagnostics are intended to be general in nature and are NOT a substitute for professional medical advice. The treatment options offered by the DPMP Potential Treatment Algorithm are not a replacement for professional medical judgment and the treatment options may cause other side effects or present other serious medical risks.

All tests were analyzed by True Health Diagnostics LLC, 737 N. 5th Street, Suite 103, Richmond, VA 23219, CAP 7224971, CLIA 49D1100708, 1-877-443-5227 unless otherwise noted.

[§]This test was developed and its performance characteristics determined by True Health Diagnostics LLC. This test has not been cleared or approved by the U.S. Food & Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under CLIA-88 as qualified to perform high complexity clinical laboratory testing.

Lab Notes: Unable to quantitate small LDL-P. **Coenzyme Q10, Total** unable to perform: Specimen stability exceeded. **Sedimentation Rate** unable to perform: Specimen stability exceeded.

End of Report

ATTN PATIENT: Please contact True Health Diagnostics at 1-877-443-5227 to set an appointment with your Clinical Health Consultant to discuss your diet and exercise needs at no charge.