Specimen ID: 286-847-2788-0 **Control ID:** 63010222700

Rte: 00

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Specimen Details

Date collected: 10/12/2020 1025 Local

Date received: 10/12/2020 **Date entered:** 10/12/2020

Date reported: 10/22/2020 1707 ET

General Comments & Additional Information

Total Volume: Not Provided Fasting: Yes

Ordered Items

NMR LipoProfile+Lipids+Graph; CBC With Differential/Platelet; Comp. Metabolic Panel (14); Lipid Panel; Thyroid Panel; Vitamin B12 and Folate; Insulin and C-Peptide, Serum; Hemoglobin A1c; Cortisol; Testosterone, Serum; IGF-1; Reverse T3, Serum; Vitamin D, 25-Hydroxy; Fructosamine; Lipoprotein (a); C-Reactive Protein, Cardiac; Oxidized LDL; Lp-PLA2 Activity; GlycA; Leptin, Serum; Homocyst(e)ine; Uric Acid; GGT; Ferritin, Serum; Glucagon, Plasma; Apolipoprotein A-1; Fatty Acids, Free (Nonester); Apolipoprotein B; Venipuncture

TESTS	RESULT	FLAG	UNITS RE	FERENCE INTERVAL	LAB
NMR LipoProfile+Lipids+Graph					
LDL Particle Number					01
LDL-P A	1336	High	nmol/L	<1000	01
			Low	< 1000	
			Moderate Borderline-Hig	1000 - 1299 th 1300 - 1599	
			High	1600 - 2000	
			Very High	> 2000	
Lipids					01
LDL-C (NIH Calc)	107	High	mg/dL	0-99	01
			Optimal	< 100	
			Above optimal Borderline	100 - 129 130 - 159	
			High	160 - 189	
			Very high	> 189	
HDL-C A	42		mg/dL	>39	01
Triglycerides A	125		mg/dL	0-149	01
Cholesterol, Total A	171		mg/dL	100-199	01
LDL and HDL Particles					01
HDL-P (Total) A	29.3	Low	umol/L	>=30.5	01
Small LDL-P A	444		nmol/L	<=527	01
LDL Size A	20.8		nm	>20.5	01

** INTERPRETATIVE INFORMATION**
PARTICLE CONCENTRATION AND SIZE

<--Lower CVD Risk Higher CVD Risk--> LDL AND HDL PARTICLES Percentile in Reference Population HDL-P (total) 75th High 50th 25th Low >34.9 34.9 30.5 26.7 <26.7 Small LDL-P Low 25th 50th 75th High <117 117 527 839 >839 LDL Size <-Large (Pattern A)-> <-Small (Pattern B)->

Date Issued: 10/22/20 1709 ET FINAL REPORT Page 1 of 6

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
	23.0 20.6	FLAG	20.5	19.0	ЦАБ
Comment:			il GIID ' l	1	01
Small LDL-P and LDL S LDL-P is taken into a		ciated wi	th CVD ris	k, but not after	
Insulin Resistance Score					01
LP-IR Score A	75	High		<=45	01
INSULIN_RESISTANCE M			_		
<insulin sensit<="" td=""><td>cive Insul e in Referenc</td><td>in Resista</td><td></td><td></td><td></td></insulin>	cive Insul e in Referenc	in Resista			
Insulin Resistance So		сторитис	1011		
	25th 50th		igh		
	27 45	63 >	63		0.1
Comment: LP-IR Score is inacco	rate if nati	ent is no	n-fasting		01
The LP-IR score is a				has been	
associated with insu					
used as one component	c of a physic	ian's cli	nical asses	ssment.	0.1
PDF	•				01
CBC With Differential/Plat	telet				
WBC	4.8		x10E3/u	L 3.4-10.8	02
RBC	5.66		x10E6/u	L 4.14-5.80	02
Hemoglobin	16.5		g/dL	13.0-17.7	02
Hematocrit	49.5		%	37.5-51.0	02
MCV	88		fL	79-97	02
MCH	29.2		pg	26.6-33.0	02
MCHC	33.3		g/dL	31.5-35.7	02
RDW	13.5		왕	11.6-15.4	02
Platelets	246		x10E3/u		02
Neutrophils	51		%	Not Estab.	02
Lymphs	38		%	Not Estab.	02
Monocytes	8		8	Not Estab.	02
Eos	2		%	Not Estab.	02
Basos	1		% 10F2 /	Not Estab.	02
Neutrophils (Absolute)	2.4		x10E3/u		02
Lymphs (Absolute) Monocytes(Absolute)	1.8		x10E3/u x10E3/u		02
Eos (Absolute)	0.4		x10E3/u x10E3/u		02
Baso (Absolute)	0.1		x10E3/u x10E3/u		02 02
Immature Granulocytes	0.1		% X10E3/u	Not Estab.	02
Immature Grans (Abs)	0.0		x10E3/u		02
Immacare Grans (ADS)	0.0		AIUE3/U	⊔ U.U-U.I	UΔ
Comp. Metabolic Panel (14))				
Glucose	77		mg/dL	65-99	02
BUN	17		mg/dL	6-24	02

TESTS	RESULT	FLAG	UNITS RE	FERENCE INTERVAL	LAB
Creatinine	1.08		mg/dL	0.76-1.27	02
eGFR If NonAfricn Am	84		mL/min/1.73		
eGFR If Africn Am	97		mL/min/1.73		
BUN/Creatinine Ratio	16			9-20	
Sodium	139		mmol/L	134-144	02
Potassium	4.3		mmol/L	3.5-5.2	02
Chloride	100		mmol/L	96-106	02
Carbon Dioxide, Total	23		mmol/L	20-29	02
Calcium	9.4		mg/dL	8.7-10.2	02
Protein, Total	6.8		g/dL	6.0-8.5	02
Albumin	4.5		g/dL	4.0-5.0	02
Globulin, Total	2.3		g/dL	1.5-4.5	
A/G Ratio	2.0		5 .	1.2-2.2	
Bilirubin, Total	0.6		mg/dL	0.0-1.2	02
Alkaline Phosphatase	52		IU/L	39-117	02
AST (SGOT)	22		IU/L	0-40	02
ALT (SGPT)	21		IU/L	0-44	02
Lipid Panel					
Cholesterol, Total	184		mg/dL	100-199	02
Triglycerides	113		mg/dL	0-149	02
HDL Cholesterol	46		mg/dL	>39	02
VLDL Cholesterol Cal	20		mg/dL	5-40	02
LDL Chol Calc (NIH)	118	High	mg/dL	0-99	
Thyroid Panel					
Thyroxine (T4)	6.0		ug/dL	4.5-12.0	02
T3 Uptake	31		%	24-39	02
Free Thyroxine Index	1.9		· ·	1.2-4.9	02
-	_,,			1.2 1.3	
Vitamin B12 and Folate					
Vitamin B12	1357	High	pg/mL	232-1245	02
Folate (Folic Acid), Serum	11.2		ng/mL	>3.0	02
Note:	tion of lo	aa +han	2 1 ng/mT ig		02
A serum folate concentra considered to represent					
Insulin and C-Peptide, Serum					
Insulin	6.0		uIU/mL	2.6-24.9	02
C-Peptide, Serum	1.7		ng/mL	1.1-4.4	02
C-Peptide reference inte	erval is for	r fastin	ng patients.		
Hemoglobin Alc					
Hemoglobin Alc	5.2		%	4.8-5.6	02
Please Note:					02
D + 1	FINI	I DEDODT			

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB		
Prediabetes: 5.7 Diabetes: >6.4 Glycemic control	- 6.4						
Cortisol	7.2		ug/dL isol AM isol PM	6.2 - 19.4 2.3 - 11.9	02		
Testosterone, Serum Adult male reference inte healthy nonobese males (B Travison, et.al. JCEM 201	MI <30) b	etween 19	and 39 ye	ears old.	02		
IGF-1							
Insulin-Like Growth Factor I	169		ng/mL	84-270	01		
Reverse T3, Serum B	25.7	High	ng/dL	9.2-24.1	01		
Vitamin D, 25-Hydroxy 48.1 Ng/mL 30.0-100.0 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.							
Fructosamine Published reference interbetween age 20 and 60 is controlled diabetic popul mean of 396 umol/L.	205 - 285	umol/L a	nd in a po	subjects oorly	02		
ind but to inf	icate an must be non-Cauca	independe evaluated sian popu	nt risk fa with caut lations du	o 75.0 nmol/L may actor for CHD, cion when applied	01		
C-Reactive Protein, Cardiac	1.57 elative R	isk for F	mg/L uture Card Low Average High	0.00-3.00 diovascular Event <1.00 1.00 - 3.00 >3.00	02		

TESTS	RESULT	FLAG	UNITS	REFERENCE	INTERVAL	LAB
Oxidized LDL	59		ng/mL	10	-170	01
Lp-PLA2 Activity	181	Red ⁻	nmol/min/muced Risk reased Ri		-224 <225 >224	01
GlycA A	342	GlycA	umol/L Medical Low Risk High Ris			01
Leptin, Serum						
Leptin, Serum Bl: Ac: St: WF Comment: Results of this to assay's manufactur have not been est be used for treatmof the diagnosis or procedure. The	BMI 11 0. 12 0. 13 0. 14 0. 15 0. 16 0. 17 0. 18 0. 19 0. 20 0. 21 0. 22 0. 23 0.	Range 1 - 0.4 1 - 0.6 1 - 0.7 1 - 0.9 1 - 1.1 2 - 1.3 2 - 1.7 2 - 2.1 3 - 2.6 4 - 3.2 4 - 4.0 5 - 5.0 8 - 6.2 9 - 7.7 eference Range Range Voice on Scher W, er research contacture of the purply estable	BMI 25 26 27 28 29 30 31 32 33 34 35 36 37 anges of Gender a f Adipose eds, 1997 h purpose teristics r. The re oses with ished dia	1.1 1.3 1.6 2.0 2.5 3.2 3.9 4.9 6.1 7.6 9.5 11.8 14.8 Leptin Levelor Tissue, For this are an	Range - 9.6 - 12.0 - 14.9 - 18.6 - 23.2 - 28.9 - 36.0 - 44.9 - 55.8 - 69.6 - 86.7 - 108.0 - 135.0 Vels Dement Slumm the Design of the content of the conte	01
LabCorp.	11 0		7 /-	2 2	14 5	0.0
Homocyst(e)ine	11.2 **Plea	se note r	umol/L eference	0.0 interval o	-14.5 change**	02
Uric Acid						
Uric Acid Please Note:	7.7 Therapeut	ic target	mg/dL for gout	3.7 patients:	-8.6: <6.0	02 02

Specimen ID: 286-847-2788-0
Date collected: 10/12/2020 1025 Local

TESTS	RESULT FLA	AG UNITS	REFERENCE INTERVAL	LAB
GGT	16	IU/L	0-65	02
Ferritin, Serum	130	ng/mL	30-400	02
Glucagon, Plasma Glucagon, Plasma Comment: Results of this test are assay's manufacturer. Th have not been establishe be used for treatment or of the diagnosis by anot or procedure. The perfor LabCorp.	e performance of d by the manufa for diagnostic her medically of	characteristics acturer. The re c purposes with established dia	s of this assay esult should not nout confirmation agnostic product	01 01
Apolipoprotein A-1	137	mg/dL	101-178	02
Fatty Acids, Free (Nonester)	0.7	mEq/L	0.1-0.9	01
Apolipoprotein B	103 Hig	gh mg/dL Desirable Borderline Hi High Very High	<90 < 90 Lgh 90 - 99 100 - 130 >130	02
н	ASCVD RISK CATEGORY ery High Risk igh Risk oderate Risk	P	RAPEUTIC TARGET APO B (mg/dL) extreme risk <70)	

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.
- ^B This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration.

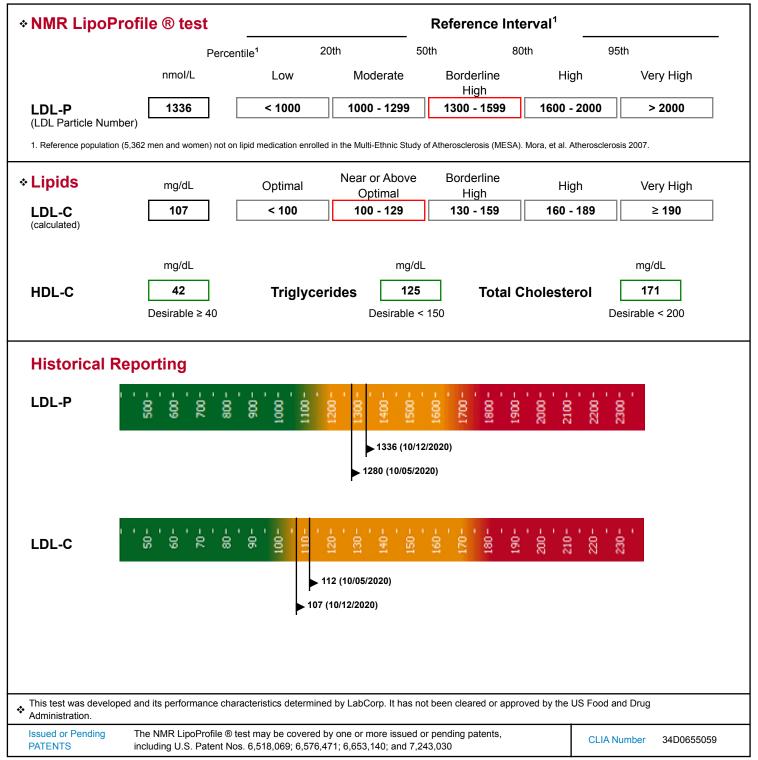
01	BN	LabCorp Burlington	Dir: Sanjai Nagendra, MD
		1447 York Court, Burlington, NC 27215-3361	
02	PDLCA	LabCorp Phoenix	Dir: Earle Collum, MD
		5005 S 40th Street Ste 1200, Phoenix, AZ 85040-2969	

For inquiries, the physician may contact Branch: 888-522-2677 Lab: 800-762-4344



Medical Director: Sanjai Nagendra, MD

		.poration or / intorioa				Medical Direct	or. Sanjai Nagendra, MD
	Specimen Number 286-847-2788-0		Patient ID		Account Number	Account Phone	Account Fax
İ	Patient Last Name		Patient First Name			1	
İ	Age Date of Birth		Sex M	Fasting YES			
	Control Number 63010222700						
	Date Collected 10/12/2020	Date Entered 10/12/2020	Date and Time Reported 10/14/2020 11:42 AM ET		Physician ID 8	& Name	Page Number 1 of 2



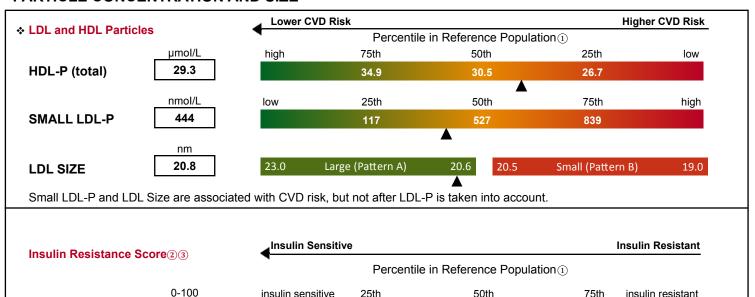


Medical Director: Saniai Nagendra, MD

	. portation of runner				Medical Direct	or. Garijai Nageriara, MD
Specimen Number 286-847-2788-0		Patient ID		Account Number	Account Phone	Account Fax
Patient Last Name		Patient First Name				
Age 43	•		Fasting YES			
	Control Number 63010222700					
Date Collected 10/12/2020	Date Entered 10/12/2020	Date and Time Reported 10/14/2020 11:42 AM ET		Physician ID 8	& Name	Page Number 2 of 2

PARTICLE CONCENTRATION AND SIZE

75



** The LP-IR score is a laboratory developed index that has been associated with insulin resistance and diabetes risk and should be used as one component of a physician's clinical assessment. The LP-IR score has not been cleared by the US Food and Drug Administration .

25th

27

insulin sensitive

Clinician Notes

LP-IR SCORE**

50th

75th

63

insulin resistant

This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the US Food and Drug

① LipoScience reference population comprises 4,588 men and women without known CVD or diabetes and not on lipid medication.

² Shalaurova I et al., Metab Syndr Relat Disord 2014: 12:422-9.

⁽³⁾ Mackey RH et al., Diab Care 2015; 38:628-36.