Specimen ID: 279-847-2292-0 **Control ID:** 63010222342

Rte: 00

ել|Ուեր#Ոււլիս|Ուհելըսիել|Որհիվ||Ուելիվո||Որհ

Specimen Details

Date collected: 10/05/2020 0949 Local

Date received: 10/05/2020 **Date entered:** 10/05/2020

Date reported: 10/15/2020 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 F	REFERENCE INTERVAL	LAB
NMR LipoProfile+Lipids+Graph					
LDL Particle Number					01
LDL-P A	1280	High	nmol/L	<1000	01
		Lo		< 1000	
			derate	1000 - 1299 Lgh 1300 - 1599	
			rderline-Hi gh	1600 - 2000	
			ry High	> 2000	
Lipids					01
LDL-C (NIH Calc)	112	High	mg/dL	0-99	01
			timal	< 100	
			ove optimal		
			rderline gh	130 - 159 160 - 189	
			ry high	> 189	
HDL-C A	48		mg/dL	>39	01
Triglycerides A	93		mg/dL	0-149	01
Cholesterol, Total A	177		mg/dL	100-199	01
LDL and HDL Particles					01
HDL-P (Total) A	32.3		umol/L	>=30.5	01
Small LDL-P A	321		${\tt nmol/L}$	<=527	01
LDL Size A	20.9		nm	>20.5	01

** INTERPRETATIVE INFORMATION**

PARTICLE CONCENTRATION AND SIZE

	<	rower c	VD RISK	нтдиег	CAD KIR	<>
LDL AND HD	L PARTICL	ES Perc	entile :	in Refere	ence Popul	lation
HDL-P (tota	al)	High	75th	50th	25th	Low
		>34.9	34.9		26.7	
Small LDL-	₽	Low	25th	50th	75th	High
		<117	117	527	839	>839
LDL Size	<-Large	(Pattern	A) ->	<-Small	(Pattern	B)->

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TESTS		RESULT	FLAG	UNIT	S REFERENCE INTERV	'AL LAB
	23.0	20.6		20.5	19.0	
						0.1
Comment: Small LDL-P and LDL LDL-P is taken into			ciated	with CVD r	isk, but not after	01
Insulin Resistance Score	<u> </u>					01
LP-IR Score A		71	High		<=45	01
INSULIN RESISTANCE						
<insulin sensi<br="">Percentil</insulin>				stant>		
Insulin Resistance S		NCICI CIIC	c ropur	acion		
LP-IR Score Low	25th	50th	75th	High		
<27	27	45	63	>63		
Comment: LP-IR Score is inacc	71120±0	if poti	ont ia	non foatin	~	01
The LP-IR score is a						
associated with insu						
used as one componer	nt of	a physic	ian's c	linical as	sessment.	
PDF		•				01
CBC With Differential/Pla	telet					
WBC	100100	5.2		x10E3	3.4-10.8	02
RBC		5.60		x10E6		02
Hemoglobin		15.9		g/d		02
Hematocrit		47.9		%		02
MCV		86		fI		02
MCH		28.4		pg		02
MCHC		33.2		g/d	•	02
RDW		13.6		%	11.6-15.4	02
Platelets		285		x10E3		02
Neutrophils		47		%	Not Estab.	02
Lymphs		41		8	Not Estab.	02
Monocytes		9		%	Not Estab.	02
Eos		2		%	Not Estab.	02
Basos		1		%	Not Estab.	02
Neutrophils (Absolute)		2.4		x10E3	1.4-7.0	02
Lymphs (Absolute)		2.1		x10E3	/uL 0.7-3.1	02
Monocytes (Absolute)		0.5		x10E3	/uL 0.1-0.9	02
Eos (Absolute)		0.1		x10E3	0.0-0.4	02
Baso (Absolute)		0.1		x10E3	/uL 0.0-0.2	02
Immature Granulocytes		0		%	Not Estab.	02
Immature Grans (Abs)		0.0		x10E3	/uL 0.0-0.1	02
Comp. Metabolic Panel (14	1)					
Glucose		92		mg/	dL 65-99	02
BUN		19		mg/		02
			IAL DEDOE			

TESTS	RESULT	FLAG	UNITS REF	ERENCE INTERVAL	LAB
Creatinine	1.08		mg/dL	0.76-1.27	02
eGFR If NonAfricn Am	84		mL/min/1.73	>59	
eGFR If Africn Am	97		mL/min/1.73	>59	
BUN/Creatinine Ratio	18			9-20	
Sodium	142		mmol/L	134-144	02
Potassium	4.3		${\tt mmol/L}$	3.5-5.2	02
Chloride	106		${\tt mmol/L}$	96-106	02
Carbon Dioxide, Total	23		${\tt mmol/L}$	20-29	02
Calcium	9.2		mg/dL	8.7-10.2	02
Protein, Total	6.7		g/dL	6.0-8.5	02
Albumin	4.3		g/dL	4.0-5.0	02
Globulin, Total	2.4		g/dL	1.5-4.5	
A/G Ratio	1.8			1.2-2.2	
Bilirubin, Total	0.4		mg/dL	0.0-1.2	02
Alkaline Phosphatase	53		IU/L	39-117	02
AST (SGOT)	23		IU/L	0-40	02
ALT (SGPT)	25		IU/L	0-44	02
Lipid Panel					
Cholesterol, Total	177		mg/dL	100-199	02
Triglycerides	82		mg/dL	0-149	02
HDL Cholesterol	48		mg/dL	>39	02
VLDL Cholesterol Cal	15		mg/dL	5-40	
LDL Chol Calc (NIH)	114	High	mg/dL	0-99	
Thyroid Panel					
Thyroxine (T4)	6.5		ug/dL	4.5-12.0	02
T3 Uptake	34		90	24-39	02
Free Thyroxine Index	2.2			1.2-4.9	
Vitamin B12 and Folate					
Vitamin B12	1153		pg/mL	232-1245	02
Folate (Folic Acid), Serum	9.6		ng/mL	>3.0	02
Note: A serum folate concentra	stion of lo	aa than	2 1 ng/mI ig		02
considered to represent					
Insulin and C-Peptide, Serum					
Insulin	11.0		uIU/mL	2.6-24.9	02
C-Peptide, Serum C-Peptide reference inte	2.6 erval is for	r fastir	ng/mL ng patients.	1.1-4.4	02
Hemoglobin Alc					
Hemoglobin A1c	5.2		%	4.8-5.6	02
Please Note:					02
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TESTS	RESULT	FLAG	UNITS I	REFERENCE INTERVAL	LAB
Prediabetes: 5.7 Diabetes: >6.4 Glycemic control	- 6.4				
Cortisol	7.0	Cort	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 yea	ars old.	02
IGF-1					
Insulin-Like Growth Factor I	133		ng/mL	84-270	01
Reverse T3, Serum B	24.1		ng/dL	9.2-24.1	01
Vitamin D, 25-Hydroxy Vitamin D deficiency has Medicine and an Endocrine level of serum 25-OH vita The Endocrine Society wen insufficiency as a level 1. IOM (Institute of Medi intakes for calcium an National Academies Pre 2. Holick MF, Binkley NC, Evaluation, treatment, deficiency: an Endocri guideline. JCEM. 2011	Society min D les t on to f between 2 cine). 20 d D. Wash ss. Bischoff and prev ne Societ	practice s than 20 urther de 1 and 29 10. Dieta ington DC -Ferrari ention of y clinica	guideline a ng/mL (1,2 fine vitam: ng/mL (2). ry reference: The HA, et al. vitamin D l practice	as a 2). in D	02
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 poo	orly	02
ind but to inf	icate an must be non-Cauca	independe evaluated sian popu genetic	nt risk fac with caut: lations due	<75.0 75.0 nmol/L may ctor for CHD, ion when applied to the Lp(a) across	01
C-Reactive Protein, Cardiac R	4.68 elative R	High isk for F	mg/L uture Card: Low Average High	0.00-3.00 iovascular Event <1.00 1.00 - 3.00 >3.00	02

TESTS	RESULT	FLAG UNITS R	EFERENCE INTERVAL	LAB
Oxidized LDL	49	ng/mL	10-170	01
Lp-PLA2 Activity	180	nmol/min/m Reduced Risk Increased Ris	<225	01
GlycA A	366	umol/L GlycA Medical D Low Risk High Risk	< 400	01
Leptin, Serum				
Leptin, Serum Bl Ac St WH Comment: Results of this t assay's manufactu have not been est be used for treat of the diagnosis	BMI 11 0.1 12 0.1 13 0.1 14 0.1 15 0.1 16 0.2 17 0.2 18 0.2 19 0.3 20 0.4 21 0.4 22 0.5 23 0.8	s Index, Gender an Voice of Adipose cher W, eds, 1997, research purposes e characteristics ufacturer. The resetic purposes without y established diag	Range 1.1 - 9.6 1.3 - 12.0 1.6 - 14.9 2.0 - 18.6 2.5 - 23.2 3.2 - 28.9 3.9 - 36.0 4.9 - 44.9 6.1 - 55.8 7.6 - 69.6 9.5 - 86.7 11.8 - 108.0 14.8 - 135.0 eptin Levels d Development Tissue, Blumm 319-326. only by the of this assay ult should not ut confirmation nostic product	01
Homocyst(e)ine	10.2 **Pleas	umol/L e note reference i	0.0-14.5 nterval change**	02
Uric Acid Uric Acid Please Note:	5.0 Therapeuti	mg/dL c target for gout	3.7-8.6 patients: <6.0	02

Specimen ID: 279-847-2292-0 **Date collected:** 10/05/2020 0949 Local

TESTS	RESULT F	LAG UNITS	REFERENCE INTERVAL	LAB			
GGT	18	IU/L	0-65	02			
Ferritin, Serum	113	ng/mL	30-400	02			
Glucagon, Plasma Glucagon, Pl							
Apolipoprotein A-1	145	mg/dL	101-178	02			
Fatty Acids, Free (Nonester)	0.7	mEq/L	0.1-0.9	01			
Apolipoprotein B	94 н	igh mg/dL Desirable Borderline Hi High Very High	<90 < 90 Lgh 90 - 99 100 - 130 >130	02			
ASCVD RISK CATEGORY Very High Risk <89 High Risk <99 Moderate Risk <99			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

	or portation of the control				medical Birect	or. Garijai Nageriara, Mi
Specimen Number 279-847-2292-0		Patient ID		Account Number	Account Phone	Account Fax
Patient Last Name		F	Patient First Name			
Age 43	Date of Birth	Sex M	Fasting YES			
	Control Number 63010222342		NPI			
Date Collected 10/05/2020	Date Entered 10/05/2020	Date and Time Reported 10/07/2020 01:45 PM ET		Physician ID 8	& Name	Page Number 1 of 2

* NMR LipoP	rofile ® test		Reference Interval ¹	
	Percentile ¹	20th	50th 80th	95th
	nmol/L	Low Moderate	Borderline Hi High	gh Very High
LDL-P (LDL Particle Num		< 1000 - 1299		- 2000 > 2000
Reference population	n (5,362 men and women) not on lipid m	edication enrolled in the Multi-Ethnic St	udy of Atherosclerosis (MESA). Mora, et al.	Atherosclerosis 2007.
* Lipids	mg/dL	Optimal Near or Abov	re Borderline High Hi	gh Very High
LDL-C (calculated)	112	< 100 100 - 129		- 189 ≥ 190
HDL-C	mg/dL 48 Desirable ≥ 40		7/dL Total Cholesto e < 150	mg/dL erol 177 Desirable < 200
Historical F	Reporting			
LDL-P	, 88 8 8 8 8 9 8	1280-	1700-	
		1280 (10/0	5/2020)	
LDL-C	50 - - 00 - - 07 - - 08 -	130-	150-	22 20 - 10 20 - 1
		112 (10/05/2020)		
This test was developed Administration.	ped and its performance characteri	stics determined by LabCorp. It ha	s not been cleared or approved by the	US Food and Drug
Issued or Pending PATENTS		y be covered by one or more issu 18,069; 6,576,471; 6,653,140; and		CLIA Number 34D0655059



Medical Director: Sanjai Nagendra, MD

insulin resistant

75th

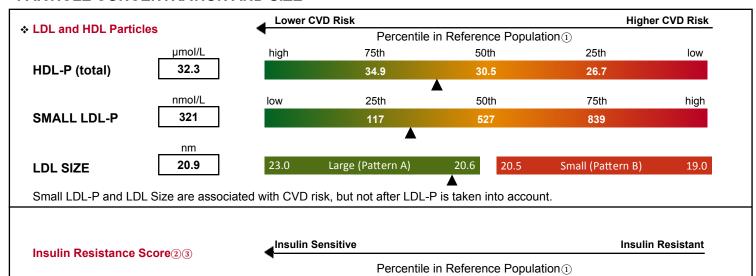
63

 1.51						
Specimen Number 279-847-2292-0		Patient ID		Account Number	Account Phone	Account Fax
Patient Last Name		P	Patient First Name			
Age 43	Date of Birth	Sex M	Fasting YES			
Control Number 63010222342			NPI			
Date Collected 10/05/2020	Date Entered 10/05/2020	Date and Time Reported 10/07/2020 01:45 PM ET		Physician ID 8	& Name	Page Number 2 of 2

PARTICLE CONCENTRATION AND SIZE

0-100

71



** 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

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

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.