



Specimen Details

Date collected: 04/12/2019 0849 Local
Date received: 04/12/2019
Date entered: 04/12/2019
Date reported: 04/14/2019 1106 ET

General Comments & Additional Information

Total Volume: Not Provided

Fasting: Yes

Ordered Items

NMR LipoProfile; CBC With Differential/Platelet; Comp. Metabolic Panel (14); Lipid Panel; Hemoglobin A1c; Cortisol; C-Reactive Protein, Cardiac; Insulin; Venipuncture

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
NMR LipoProfile					
LDL Particle Number					01
LDL-P	1188	High	nmol/L	<1000	01
		Low		< 1000	
		Moderate		1000 - 1299	
		Borderline-High		1300 - 1599	
		High		1600 - 2000	
		Very High		> 2000	
Lipids					01
LDL-C	123	High	mg/dL	0 - 99	01
		Optimal		< 100	
		Above optimal		100 - 129	
		Borderline		130 - 159	
		High		160 - 189	
		Very high		> 189	
Comment:					01
LDL-C is inaccurate if patient is non-fasting.					
HDL-C	46		mg/dL	>39	01
Triglycerides	163	High	mg/dL	0 - 149	01
Cholesterol, Total	202	High	mg/dL	100 - 199	01
LDL and HDL Particles					01
HDL-P (Total)	27.0	Low	umol/L	>=30.5	01
Small LDL-P	465		nmol/L	<=527	01
LDL Size	21.3		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) High 75th 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)->

Patient ID:

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
	23.0	20.6	20.5	19.0	

Comment: 01

Small LDL-P and LDL Size are associated with CVD risk, but not after LDL-P is taken into account.

These assays were developed and their performance characteristics determined by LipoScience. These assays have not been cleared by the US Food and Drug Administration. The clinical utility of these laboratory values have not been fully established.

Insulin Resistance Score 01

LP-IR Score 51 High <=45 01

INSULIN RESISTANCE MARKER

<--Insulin Sensitive Insulin Resistant-->

Percentile in Reference Population

Insulin Resistance Score

LP-IR Score	Low	25th	50th	75th	High
	<27	27	45	63	>63

Comment: 01

LP-IR Score is inaccurate if patient is non-fasting. 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 listed above has not been cleared by the US Food and Drug Administration.

CBC With Differential/Platelet

WBC	4.4	K/uL	3.2 - 10.6	02
RBC	5.34	M/uL	3.98 - 5.98	02
Hemoglobin	16.1	g/dL	12.5 - 18.0	02
Hematocrit	47.8	%	36.9 - 52.1	02
MCV	89.5	fL	80.6 - 97.6	02
MCH	30.1	pg	27.3 - 33.7	02
MCHC	33.7	g/dL	33.4 - 35.3	02
RDW	14.3	%	12.5 - 15.3	02
Platelets	261	K/uL	140 - 440	02
Neutrophils	49.0	%	41.0 - 81.0	02
Lymphs	38.9	%	11.0 - 44.0	02
Monocytes	8.7	%	4.0 - 11.0	02
Eos	2.5	%	0.0 - 6.0	02
Basos	0.9	%	0.0 - 1.0	02
Neutrophils (Absolute)	2.1	K/uL	1.8 - 6.8	02
Lymphs (Absolute)	1.7	K/uL	1.0 - 3.0	02
Monocytes (Absolute)	0.4	K/uL	0.2 - 1.0	02
Eos (Absolute)	0.1	K/uL	0.0 - 0.4	02
Baso (Absolute)	0.0	K/uL	0.0 - 0.1	02
Immature Granulocytes	0.0	%	0.0 - 8.0	02

Patient ID:

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
Immature Grans (Abs)	0.0		K/uL	0.0 - 1.9	02
NRBC	0		/100WBC		02
Hematology Comments:					02
RDW SD	46.4		fL	N	
MEAN PLATELET VOLUME	9.8		fL	6.2-9.8 N	
Comp. Metabolic Panel (14)					
Glucose	73		mg/dL	70 - 110	02
BUN	14		mg/dL	7 - 18	02
Creatinine	0.85		mg/dL	0.60 - 1.30	02
eGFR If NonAfricn Am	99.33		mL/min		02
GFR calculation is only for patients with chronic renal insufficiency. Units of measure are ml/min/1.73 m2.					
Average GFR for healthy adults is >60 ml/min/1.73 m2					
Chronic kidney disease if GFR is 15-60 ml/min/1.73 m2					
Kidney failure if GFR is <15 ml/min/1.73 m2					
MDRD calculation used. Refer to http://www.nkdep.nih.gov/healthprofessionals/index.htm					
eGFR If Africn Am	127.75		mL/min		02
GFR calculation is only for patients with chronic renal insufficiency. Units of measure are ml/min/1.73 m2.					
Average GFR for healthy adults is >60 ml/min/1.73 m2					
Chronic kidney disease if GFR is 15-60 ml/min/1.73 m2					
Kidney failure if GFR is <15 ml/min/1.73 m2					
MDRD calculation used. Refer to http://www.nkdep.nih.gov/healthprofessionals/index.htm					
BUN/Creatinine Ratio	16.5		Ratio	7.0 - 24.0	02
Sodium	142		mmol/L	136 - 145	02
Potassium	4.4		mmol/L	3.5 - 5.1	02
Chloride	104		mmol/L	98 - 107	02
Carbon Dioxide, Total	27		mmol/L	23 - 32	02
Calcium	9.0		mg/dL	8.5 - 10.1	02
Protein, Total	7.1		g/dL	6.4 - 8.2	02
Albumin	4.2		g/dL	3.4 - 5.0	02
Globulin, Total	2.9		g/dL	1.8 - 3.5	02
A/G Ratio	1.4				02
Bilirubin, Total	0.9		mg/dL	0.1 - 1.2	02
Alkaline Phosphatase	55		U/L	50 - 136	02
AST (SGOT)	29		U/L	5 - 41	02
ALT (SGPT)	26		U/L	10 - 56	02
Lipid Panel					
Cholesterol, Total	194		mg/dL	0 - 200	02

Patient ID:

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
Triglycerides	145		mg/dL	0 - 150	02
HDL Cholesterol	42		mg/dL	40 - 60	02

Male patients:
 No risk >55 mg/dL
 Moderate risk = 40-55 mg/dL
 High risk <40 mg/dL

Female patients:
 No risk >65 mg/dL
 Moderate risk = 45-65 mg/dL
 High risk <45 mg/dL

National Cholesterol Education Program (NCEP Guidelines:
 <40mg/dL = low HDL cholesterol (major risk of CHD)
 >60 mg/dL = high HDL cholesterol (negative risk factor for CHD)

VLDL Cholesterol Cal	29		mg/dL	2 - 30	02
LDL Cholesterol Calc	123		mg/dL	0 - 130	02

Adults:
 Desirable LDL <130 mg/dl
 Borderline LDL = 130-160 mg/dl
 High Risk LDL >160 mg/dl

Children <19 Years of Age:
 Desirable LDL <110 mg/dl
 Borderline LDL = 110-130 mg/dl
 High Risk LDL >130 mg/dl

Hemoglobin A1c	4.5		%	4.2 - 6.3	02
-----------------------	-----	--	---	-----------	----

For management of known diabetes, Hgb A1c level goals must be individualized for each patient. Age, type of diabetes, presence of comorbid diseases, and brittleness of the disease must be considered. In general, a level of 7% is a reasonable goal.

Performance characteristics for this method have not been established or approved by the FDA for the diagnosis of diabetes.

Cortisol	11.2		ug/dL		03
			Cortisol AM	6.2 - 19.4	
			Cortisol PM	2.3 - 11.9	

C-Reactive Protein, Cardiac	1.38		mg/L	0.00 - 3.00	03
			Relative Risk for Future Cardiovascular Event		
			Low	<1.00	

Patient ID:

TESTS	RESULT	FLAG	UNITS	REFERENCE	INTERVAL	LAB
			Average	1.00	- 3.00	
			High		>3.00	
Insulin	4.9		uIU/mL	2.6	- 24.9	03

01	BN	LabCorp Burlington 1447 York Court, Burlington, NC 27215-3361	Dir: Sanjai Nagendra, MD
02	DRAUT	Lone Peak Hospital 11925 S State Street, Draper, UT 84020-7735	Dir: Nathan Eliason, MD
03	PDLCA	LabCorp Phoenix 5005 S 40th Street Ste 1200, Phoenix, AZ 85040-2969	Dir: Earle Collum, MD

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