



Specimen Details

Date collected: 03/15/2019 0833 Local
Date received: 03/15/2019
Date entered: 03/15/2019
Date reported: 03/19/2019 1709 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	726		nmol/L	<1000	01
		Low		< 1000	
		Moderate		1000 - 1299	
		Borderline-High		1300 - 1599	
		High		1600 - 2000	
		Very High		> 2000	
Lipids					01
LDL-C	63		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	39	Low	mg/dL	>39	01
Triglycerides	131		mg/dL	0 - 149	01
Cholesterol, Total	128		mg/dL	100 - 199	01
LDL and HDL Particles					01
HDL-P (Total)	28.0	Low	umol/L	>=30.5	01
Small LDL-P	209		nmol/L	<=527	01
LDL Size	20.6		nm	>20.5	01

**** INTERPRETATIVE INFORMATION****

PARTICLE CONCENTRATION AND SIZE

<--Lower CVD Risk Higher CVD Risk-->

LDL AND HDL PARTICLES	Percentile	in Reference Population	High	75th	50th	25th	Low
HDL-P (total)	>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 72 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	4.3		K/uL	3.2 - 10.6	02
RBC	5.38		M/uL	3.98 - 5.98	02
Hemoglobin	16.0		g/dL	12.5 - 18.0	02
Hematocrit	47.4		%	36.9 - 52.1	02
MCV	88.1		fL	80.6 - 97.6	02
MCH	29.7		pg	27.3 - 33.7	02
MCHC	33.8		g/dL	33.4 - 35.3	02
RDW	14.1		%	12.5 - 15.3	02
Platelets	279		K/uL	140 - 440	02
Neutrophils	62.9		%	41.0 - 81.0	02
Lymphs	20.5		%	11.0 - 44.0	02
Monocytes	13.8	High	%	4.0 - 11.0	02
Eos	1.9		%	0.0 - 6.0	02
Basos	0.7		%	0.0 - 1.0	02
Neutrophils (Absolute)	2.7		K/uL	1.8 - 6.8	02
Lymphs (Absolute)	0.9	Low	K/uL	1.0 - 3.0	02
Monocytes (Absolute)	0.6		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	0.2		%	0.0 - 8.0	02

Patient ID:

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Immature Grans (Abs)	0.0		K/uL	0.0 - 1.9	02
NRBC	0		/100WBC		02
Hematology Comments:					02
RDW SD	45.2		fL	N	
MEAN PLATELET VOLUME	10.6		fL	6.2-9.8 H	
Comp. Metabolic Panel (14)					
Glucose	70		mg/dL	70 - 110	02
BUN	12		mg/dL	7 - 18	02
Creatinine	0.97		mg/dL	0.60 - 1.30	02
eGFR If NonAfricn Am	85.29		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	109.69		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	12.4		Ratio	7.0 - 24.0	02
Sodium	141		mmol/L	136 - 145	02
Potassium	4.5		mmol/L	3.5 - 5.1	02
Chloride	103		mmol/L	98 - 107	02
Carbon Dioxide, Total	28		mmol/L	23 - 32	02
Calcium	9.1		mg/dL	8.5 - 10.1	02
Protein, Total	6.8		g/dL	6.4 - 8.2	02
Albumin	4.1		g/dL	3.4 - 5.0	02
Globulin, Total	2.7		g/dL	1.8 - 3.5	02
A/G Ratio	1.5				02
Bilirubin, Total	1.0		mg/dL	0.1 - 1.2	02
Alkaline Phosphatase	53		U/L	50 - 136	02
AST (SGOT)	29		U/L	5 - 41	02
ALT (SGPT)	24		U/L	10 - 56	02
Lipid Panel					
Cholesterol, Total	123		mg/dL	0 - 200	02

Patient ID:

TESTS	RESULT	FLAG	UNITS	REFERENCE INTERVAL	LAB
Triglycerides	122		mg/dL	0 - 150	02
HDL Cholesterol	38	Low	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	24.4		mg/dL	2 - 30	02
LDL Cholesterol Calc	61		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	4.6		%	4.2 - 6.3	02
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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	9.2		ug/dL		03
			Cortisol AM	6.2 - 19.4	
			Cortisol PM	2.3 - 11.9	

C-Reactive Protein, Cardiac	3.17	High	mg/L	0.00 - 3.00	03
			Relative Risk for Future Cardiovascular Event		
			Low	<1.00	

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TESTS	RESULT	FLAG	UNITS	REFERENCE	INTERVAL	LAB
			Average	1.00	- 3.00	
			High		>3.00	
Insulin	4.1		uIU/mL	2.6	- 24.9	03

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