

Siddiqui, KhanDOB: **07/02/1973****Patient Report**

Patient ID: **PAT-KDGPQE5XQ4HL**
 Specimen ID: **304-305-5927-0**

Age: **51**
 Sex: **Male**

Account Number: **11009950**
 Ordering Physician: **S CLARK**

Date Collected: **10/30/2024**Date Received: **10/30/2024**Date Reported: **11/07/2024**Fasting: **Yes**

Ordered Items: **NMR LipoProfile+Lipids+Graph; T4F+T3F; CBC With Differential/Platelet; Comp. Metabolic Panel (14); UA/M w/rflx Culture, Routine; Apo E Genotyping; Cardio Risk; Iron and TIBC; Testosterone Free, Profile I; Albumin/Creatinine Ratio, Urine; Apo A1 + B + Ratio; Vitamin B12 and Folate; ESR-Wes+CRP; Hemoglobin A1c; Cortisol; TSH; Vitamin D, 25-Hydroxy; Lipoprotein (a); Testosterone, Free, Direct; Methylmalonic Acid, Serum; Homocyst(e)ine; Uric Acid; Phosphorus; Bilirubin, Direct; Magnesium; Insulin; Ferritin; Venipuncture**

Date Collected: **10/30/2024****NMR LipoProfile+Lipids+Graph**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
LDL Particle Number ⁰¹				
LDL-P ^{A,01}	756		nmol/L	<1000
		Low	< 1000	
		Moderate	1000 - 1299	
		Borderline-High	1300 - 1599	
		High	1600 - 2000	
		Very High	> 2000	
Lipids ⁰¹				
LDL-C (NIH Calc) ⁰¹	70		mg/dL	0-99
		Optimal	< 100	
		Above optimal	100 - 129	
		Borderline	130 - 159	
		High	160 - 189	
		Very high	> 189	
▼ HDL-C ^{A,01}	37	Low	mg/dL	>39
Triglycerides ^{A,01}	91		mg/dL	0-149
Cholesterol, Total ^{A,01}	125		mg/dL	100-199
LDL and HDL Particles ⁰¹				
▼ HDL-P (Total) ^{A,01}	26.3	Low	umol/L	>=30.5
Small LDL-P ^{A,01}	328		nmol/L	<=527
LDL Size ^{A,01}	20.9		nm	>20.5

** 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)->
	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.

Insulin Resistance Score⁰¹LP-IR Score^{A,01}

37

<=45

INSULIN RESISTANCE MARKER

<--Insulin Sensitive Insulin Resistant-->

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Siddiqui, KhanPatient ID: **PAT-KDGPQE5XQ4HL**
Specimen ID: **304-305-5927-0**DOB: **07/02/1973**Age: **51**
Sex: **Male****Patient Report**Account Number: **11009950**
Ordering Physician: **S CLARK**Date Collected: **10/30/2024****NMR LipoProfile+Lipids+Graph (Cont.)**

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.

PDF⁰¹

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T4F+T3F

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Triiodothyronine (T3), Free ⁰²	2.4		pg/mL	2.0-4.4
T4,Free(Direct) ⁰²	1.37		ng/dL	0.82-1.77

CBC With Differential/Platelet

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
WBC ⁰²	6.2		x10E3/uL	3.4-10.8
RBC ⁰²	5.16		x10E6/uL	4.14-5.80
Hemoglobin ⁰²	13.3		g/dL	13.0-17.7
Hematocrit ⁰²	42.5		%	37.5-51.0
MCV ⁰²	82		fL	79-97
▼ MCH ⁰²	25.8	Low	pg	26.6-33.0
▼ MCHC ⁰²	31.3	Low	g/dL	31.5-35.7
RDW ⁰²	14.6		%	11.6-15.4
Platelets ⁰²	247		x10E3/uL	150-450
Neutrophils ⁰²	67		%	Not Estab.
Lymphs ⁰²	21		%	Not Estab.
Monocytes ⁰²	7		%	Not Estab.
Eos ⁰²	4		%	Not Estab.
Basos ⁰²	0		%	Not Estab.
Neutrophils (Absolute) ⁰²	4.2		x10E3/uL	1.4-7.0
Lymphs (Absolute) ⁰²	1.3		x10E3/uL	0.7-3.1
Monocytes(Absolute) ⁰²	0.5		x10E3/uL	0.1-0.9
Eos (Absolute) ⁰²	0.2		x10E3/uL	0.0-0.4
Baso (Absolute) ⁰²	0.0		x10E3/uL	0.0-0.2
Immature Granulocytes ⁰²	1		%	Not Estab.
Immature Grans (Abs) ⁰²	0.0		x10E3/uL	0.0-0.1

Comp. Metabolic Panel (14)

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Glucose ⁰²	90		mg/dL	70-99
BUN ⁰²	20		mg/dL	6-24
Creatinine ⁰²	0.82		mg/dL	0.76-1.27

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Date Collected: 10/30/2024

Comp. Metabolic Panel (14) (Cont.)

eGFR	106		mL/min/1.73	>59
▲ BUN/Creatinine Ratio	24	High		9-20
Sodium ⁰²	141		mmol/L	134-144
Potassium ⁰²	4.4		mmol/L	3.5-5.2
▲ Chloride ⁰²	107	High	mmol/L	96-106
Carbon Dioxide, Total ⁰²	20		mmol/L	20-29
Calcium ⁰²	9.1		mg/dL	8.7-10.2
Protein, Total ⁰²	6.5		g/dL	6.0-8.5
Albumin ⁰²	4.4		g/dL	3.8-4.9
Globulin, Total	2.1		g/dL	1.5-4.5
Bilirubin, Total ⁰²	0.4		mg/dL	0.0-1.2
Alkaline Phosphatase ⁰²	67		IU/L	44-121
AST (SGOT) ⁰²	18		IU/L	0-40
ALT (SGPT) ⁰²	21		IU/L	0-44

UA/M w/rflx Culture, Routine

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Urinalysis Gross Exam ⁰²				
Specific Gravity ⁰²	1.026			1.005-1.030
pH ⁰²	5.5			5.0-7.5
Urine-Color ⁰²	Yellow			Yellow
Appearance ⁰²	Clear			Clear
WBC Esterase ⁰²	Negative			Negative
Protein ⁰²	Negative			Negative/Trace
Glucose ⁰²	Negative			Negative
Ketones ⁰²	Negative			Negative
Occult Blood ⁰²	Negative			Negative
Bilirubin ⁰²	Negative			Negative
Urobilinogen,Semi-Qn ⁰²	0.2		mg/dL	0.2-1.0
Nitrite, Urine ⁰²	Negative			Negative
Microscopic Examination ⁰²	Microscopic follows if indicated.			
Microscopic Examination ⁰²	See below: Microscopic was indicated and was performed.			
WBC ⁰²	None seen		/hpf	0 - 5
RBC ⁰²	0-2		/hpf	0 - 2
Epithelial Cells (non renal) ⁰²	0-10		/hpf	0 - 10
Casts ⁰²	None seen		/lpf	None seen
Bacteria ⁰²	None seen			None seen/Few
Urinalysis Reflex ⁰²	This specimen will not reflex to a Urine Culture.			

Date Collected: 10/30/2024

Apo E Genotyping: Cardio Risk

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
APO E Genotyping Result: ⁰³	E3/E3			

Methodology:⁰³

Patient DNA is assayed for the APOE genotype by PCR amplification of a specific region in exon 4 of the APOE gene followed by digestion with restriction enzyme Hha I and separation of fragments by polyacrylamide gel electrophoresis. This approach allows the APOE E2, E3, and E4 alleles to be distinguished. Analytical sensitivity and specificity are >99.5%. Individuals are interpreted as having one of the following genotypes: E2/E2, E3/E3, E4/E4, E2/E3, E2/E4, E3/E4.

Interpretation:⁰³

Both APOE alleles were determined to be E3. Therefore, this individual has the APOE genotype E3/E3 (homozygote for the E3 allele). This individual does not have the APOE genotype E2/E2 associated with type III hyperlipoproteinemia (broad beta disease) and is unlikely to have this specific dyslipidemia. E3/E3 is the most common APOE genotype in the general population.

Approximately 95% of individuals with type III hyperlipoproteinemia have the E2/E2 genotype. The remainder have rare mutations in one copy of the APOE gene some of which are not detectable by the APOE genotype test.

NOTE: This test evaluates only for the APOE genotype and cannot detect genetic abnormalities elsewhere in the genome. It should be realized that there are possible sources of diagnostic error including sample misidentification, rare technical errors, trace contamination of PCR reactions, and rare genetic variants that interfere with analysis.

For inquiries or genetic consultation please call Esoterix at 1-800-444-9111.

Comment:⁰³

INFORMATION ABOUT THE APOE GENOTYPE E2/E2 AND TYPE III HYPERLIPOPROTEINEMIA
Apolipoprotein E (apoE) is a component of several lipoproteins. There are three main apoE isoforms reflecting three alleles (E2, E3, and E4) of which E3 is the most common. The E2 variant has a cysteine at amino acid position 158 which severely reduces binding to receptors that clear chylomicron remnants from the circulation.

The APOE genotype E2/E2 is present in 1% of the population and predisposes to type III hyperlipoproteinemia (broad beta disease). Type III hyperlipoproteinemia involves abnormal build-up in the blood of remnant chylomicrons and VLDL particles (collectively called B-VLDL) containing cholesterol and triglycerides. Excess B-VLDL is taken up in blood vessel walls and can lead to atherosclerosis. Therefore, individuals with type III hyperlipoproteinemia

Date Collected: 10/30/2024

Apo E Genotyping: Cardio Risk (Cont.)

have high total serum cholesterol, LDL and TG, a VLDL/TG ratio of >0.3, and in most cases B-VLDL detectable by lipoprotein electrophoresis. The main clinical manifestation is premature atherosclerosis leading to coronary artery disease or peripheral vascular disease. However, some patients may be asymptomatic.

1-5% of individuals with the E2/E2 genotype develop type III hyperlipoproteinemia. The E2/E2 genotype is present in 95% of individuals with type III hyperlipoproteinemia and is diagnostic of the disorder in individuals with the appropriate lipid profile. A number of secondary factors are known to provoke type III hyperlipoproteinemia in individuals with the E2/E2 genotype, including glucose intolerance, diabetes mellitus, hypothyroidism, obesity, low estrogen levels, and excessive alcohol intake.

This test was developed and its performance characteristics determined by LabCorp. It has not been cleared or approved by the Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary.

REFERENCES

Eichner AE et al. Am J Epidemiol 2002;155:487-495. Feussner G et al. Clin Investig 1993;71:362-366. Fung M et al. BMJ Case Reports 2011; doi:10.1136/bcr.02.2011.3895. Mahley RW et al. J Lipid Res 1999;40:1933-1949. Smelt AHM et al. Semin Vasc Med 2004;4:249-257. Wilson PWF et al. JAMA 1994;272:1666-1671.

Iron and TIBC

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Iron Bind.Cap.(TIBC)	335		ug/dL	250-450
UIBC ⁰²	299		ug/dL	111-343
▼ Iron ⁰²	36	Low	ug/dL	38-169
▼ Iron Saturation	11	Low	%	15-55

Testosterone Free, Profile I

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Testosterone ⁰²	268		ng/dL	264-916
Adult male reference interval is based on a population of healthy nonobese males (BMI <30) between 19 and 39 years old. Travison, et.al. JCEM 2017, 102;1161-1173. PMID: 28324103.				
Sex Horm Binding Glob, Serum ⁰²	27.3		nmol/L	19.3-76.4
Testost., Free, Calc	57.4		pg/mL	35.8-168.2

Albumin/Creatinine Ratio,Urine

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Creatinine, Urine ⁰²	154.5		mg/dL	Not Estab.
Albumin, Urine ⁰²	12.9		ug/mL	Not Estab.

Siddiqui, KhanPatient ID: **PAT-KDGPQE5XQ4HL**
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Sex: **Male****Patient Report**Account Number: **11009950**
Ordering Physician: **S CLARK**Date Collected: **10/30/2024****Albumin/Creatinine Ratio, Urine (Cont.)**

Alb/Creat Ratio	8	mg/g creat	0-29
		Normal:	0 - 29
		Moderately increased:	30 - 300
		Severely increased:	>300

Apo A1 + B + Ratio

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Apolipoprotein A-1 ⁰¹	112		mg/dL	101-178
Apolipoprotein B ⁰¹	59		mg/dL	<90
		Desirable	< 90	
		Borderline High	90 - 99	
		High	100 - 130	
		Very High	>130	
		ASCV RISK CATEGORY	THERAPEUTIC TARGET APO B (mg/dL)	
		Very High Risk	<80 (if extreme risk <70)	
		High Risk	<90	
		Moderate Risk	<90	
Apolipo. B/A-1 Ratio	0.5		ratio	0.0-0.7
		Apolipoprotein B/A-1 Ratio		
		Male	Female	
		Avg.Risk	0.7	0.6
		2X Avg.Risk	0.9	0.9
		3X Avg.Risk	1.0	1.0

Vitamin B12 and Folate

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Vitamin B12 ⁰²	975		pg/mL	232-1245
Folate (Folic Acid), Serum ⁰²	6.6		ng/mL	>3.0
Note: ⁰² A serum folate concentration of less than 3.1 ng/mL is considered to represent clinical deficiency.				

ESR-Wes+CRP

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Sedimentation Rate-Westergren ⁰²	9		mm/hr	0-30
C-Reactive Protein, Quant ⁰²	2		mg/L	0-10

Hemoglobin A1c

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Hemoglobin A1c ⁰²	5.6		%	4.8-5.6
Please Note: ⁰² Prediabetes: 5.7 - 6.4 Diabetes: >6.4 Glycemic control for adults with diabetes: <7.0				

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Siddiqui, KhanPatient ID: **PAT-KDGPQE5XQ4HL**
Specimen ID: **304-305-5927-0**DOB: **07/02/1973**Age: **51**
Sex: **Male****Patient Report**Account Number: **11009950**
Ordering Physician: **S CLARK**Date Collected: **10/30/2024****Cortisol**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Cortisol ⁰²	10.3		ug/dL	6.2-19.4

Please Note: The reference interval and flagging for this test is for an AM collection. If this is a PM collection please use: Cortisol PM: 2.3-11.9

TSH

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
TSH ⁰²	1.360		uIU/mL	0.450-4.500

Vitamin D, 25-Hydroxy

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▼ Vitamin D, 25-Hydroxy ⁰²	18.8 Low		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.

Lipoprotein (a)

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▲ Lipoprotein (a) ⁰²	260.1 High		nmol/L	<75.0

Note: Values greater than or equal to 75.0 nmol/L may indicate an independent risk factor for CHD, but must be evaluated with caution when applied to non-Caucasian populations due to the influence of genetic factors on Lp(a) across ethnicities.

Testosterone, Free, Direct

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▼ Free Testosterone(Direct) ⁰¹	2.4 Low		pg/mL	7.2-24.0

Methylmalonic Acid, Serum

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Methylmalonic Acid, Serum ^{A,01}	111		nmol/L	0-378

Homocyst(e)ine

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Homocyst(e)ine ⁰²	9.5		umol/L	0.0-14.5

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Siddiqui, KhanPatient ID: **PAT-KDGPQE5XQ4HL**
Specimen ID: **304-305-5927-0**DOB: **07/02/1973**Age: **51**
Sex: **Male****Patient Report**Account Number: **11009950**
Ordering Physician: **S CLARK**Date Collected: **10/30/2024****Uric Acid**

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Uric Acid ⁰²	4.6		mg/dL	3.8-8.4

Therapeutic target for gout patients: <6.0

Phosphorus

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Phosphorus ⁰²	3.3		mg/dL	2.8-4.1

Bilirubin, Direct

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Bilirubin, Direct ⁰²	0.14		mg/dL	0.00-0.40

Magnesium

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Magnesium ⁰²	2.2		mg/dL	1.6-2.3

Insulin

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
Insulin ⁰²	21.1		uIU/mL	2.6-24.9

Test	Current Result and Flag	Previous Result and Date	Units	Reference Interval
▼ Ferritin ⁰²	28	Low	ng/mL	30-400

Disclaimer

The Previous Result is listed for the most recent test performed by Labcorp in the past 5 years where there is sufficient patient demographic data to match the result to the patient. Results from certain tests are excluded from the Previous Result display.

Icon Legend

▲ Out of Reference Range ■ Critical or Alert

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.

Performing Labs

01: BN - Labcorp Burlington, 1447 York Court, Burlington, NC 27215-3361 Dir: Sanjai Nagendra, MD
 02: CB - Labcorp Dublin, 6370 Wilcox Road, Dublin, OH 43016-1269 Dir: Vincent Ricchiuti, PhD
 03: UY - Esoterix Inc, 8490 Upland Drive Ste 100, Englewood, CO 80112-7116 Dir: Brian F. Poirier, MD
 For inquiries, the physician may contact Branch: 800-598-3345 Lab: 800-282-7300

Patient ID: **PAT-KDGPQE5XQ4HL**Age: **51**Account Number: **11009950**Specimen ID: **304-305-5927-0**Sex: **Male**Ordering Physician: **S CLARK****Patient Details****Siddiqui, Khan**
630 N MADISON ST, HINSDALE, IL, 60521Phone: **443-847-5106**Date of Birth: **07/02/1973**Age: **51**Sex: **Male**Patient ID: **PAT-KDGPQE5XQ4HL**Alternate Patient ID: **PAT-KDGPQE5XQ4HL****Physician Details****S CLARK****Clark Family Medicine****1246 Yellowstone Ave Ste A2, Pocatello, ID,
83201**Phone: **208-595-6976**Account Number: **11009950**Physician ID: **1093078578**NPI: **1093078578****Specimen Details**Specimen ID: **304-305-5927-0**Control ID: **1401631**Alternate Control Number: **1401631**Date Collected: **10/30/2024 0859 Local**Date Received: **10/30/2024 0000 ET**Date Entered: **10/30/2024 1839 ET**Date Reported: **11/07/2024 2307 ET**

Specimen Number 304-305-5927-0	Patient ID PAT-KDGPQE5XQ4HL	Account Number 11009950	Account Phone (208) 595-6976	Account Fax (208) 595-6976
Patient Last Name SIDDQUI	Patient First Name KHAN		Account Address Clark Family Medicine 1246 Yellowstone Ave Ste A2 Pocatello, ID 83201	
Age 51	Date of Birth 07/02/1973	Sex M	Fasting YES	
Control Number 1401631		NPI 1093078578		
Date Collected 10/30/2024	Date Entered 10/30/2024	Date and Time Reported 11/01/2024 12:15 PM ET	Physician ID & Name 1093078578 - CLARK, S	Page Number 1 of 2

❖ NMR LipoProfile ® test
Reference Interval¹

Percentile ¹	20th	50th	80th	95th
nmol/L	Low	Moderate	Borderline High	High

LDL-P (LDL Particle Number)	756	< 1000	1000 - 1299	1300 - 1599	1600 - 2000	> 2000
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1. Reference population (5,362 men and women) not on lipid medication enrolled in the Multi-Ethnic Study of Atherosclerosis (MESA). Mora, et al. Atherosclerosis 2007.

❖ Lipids

mg/dL	Optimal	Near or Above Optimal	Borderline High	High	Very High
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LDL-C (calculated)	70	< 100	100 - 129	130 - 159	160 - 189	≥ 190
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HDL-C	37	mg/dL	Triglycerides	91	mg/dL	Total Cholesterol	125	mg/dL
	Desirable ≥ 40			Desirable < 150			Desirable < 200	

Historical Reporting


* 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.

Issued or Pending PATENTS The NMR LipoProfile ® test may be covered by one or more issued or pending patents, including U.S. Patent Nos. 6,518,069; 6,576,471; 6,653,140; and 7,243,030

CLIA Number 34D0655059

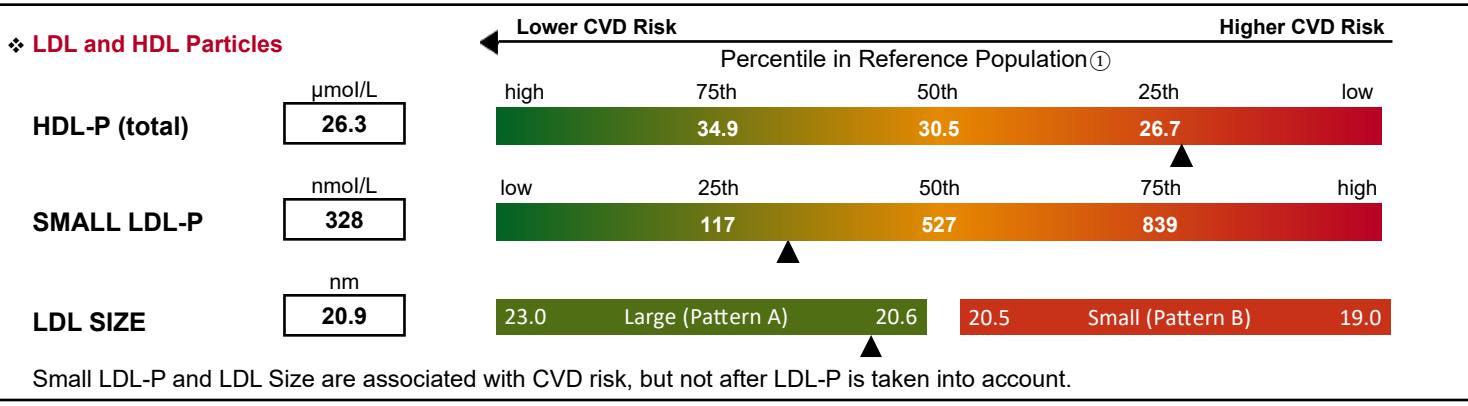


1447 York Court
Burlington, NC 27215
800-788-9223

Medical Director: Sanjai Nagendra, MD

Specimen Number 304-305-5927-0		Patient ID PAT-KDGPQE5XQ4HL		Account Number 11009950	Account Phone (208) 595-6976	Account Fax (208) 595-6976
Patient Last Name SIDDIQUI		Patient First Name KHAN		Account Address Clark Family Medicine 1246 Yellowstone Ave Ste A2 Pocatello, ID 83201		
Age 51	Date of Birth 07/02/1973	Sex M	Fasting YES			
Control Number 1401631		NPI 1093078578				
Date Collected 10/30/2024	Date Entered 10/30/2024	Date and Time Reported 11/01/2024 12:15 PM ET		Physician ID & Name 1093078578 - CLARK, S	Page Number 2 of 2	

PARTICLE CONCENTRATION AND SIZE



**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.

Clinician Notes

- ❖ 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.