

Specimen Information	Client Information
	Specimen Information

COMMENTS:

			Cardio I	Q®				
	Cu	rrent	Risk/Reference Interval				Historical	
Test Name	Resul Optimal	Result & Risk Optimal Non-Optimal		Optimal Moderate High		Units -	Result & Risk	
LIPID PANEL	Optimar							
CHOLESTEROL, TOTAL	180		<200	N/A	>=200	mg/dL		
HDL CHOLESTEROL	59		>=40	N/A	<40	mg/dL		
TRIGLYCERIDES	70		<150	150-199	>=200	mg/dL		
LDL-CHOLESTEROL		105	<100	100-129	>129	mg/dL (calc)		
CHOL/HDLC RATIO	3.1		<=3.5	3.6-5.0	>5.0	calc		
NON-HDL CHOLESTEROL	121		<130	130-189	>=190	mg/dL (calc)		
LIPOPROTEIN FRACTIO	NATION, IO	N MOBILI						
LDL PARTICLE NUMBER		1597	<1138	1138-1409	>1409	nmol/L		
LDL SMALL		270	<142	142-219	>219	nmol/L		
LDL MEDIUM		348	<215	215-301	>301	nmol/L		
HDL LARGE		5593	>6729	6729-5353	<5353	nmol/L		
LDL PATTERN	Α		А	N/A	В	Pattern		
LDL PEAK SIZE		217.8	>222.9	222.9-217.4	<217.4	Angstrom		
APOLIPOPROTEINS				_				
APOLIPOPROTEIN B	87		<90	90-129	>=130	mg/dL		
LIPOPROTEIN (a)	10		<75	75-125	>125	nmol/L		
INFLAMMATION								
HS CRP	0.4		<1.0	1.0-3.0	>3.0	mg/L		

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Patient Information Spe			Information			Client Informa	tion
	Curre		Diak	/Reference Int	anval		Historical
	Curre	nt	RISK	Reference int	ervai		Historical
Test Name	Result &	Risk	Ontimal	Moderate	High	Units	Result & Risk
	Optimal N	on-Optimal	opennui	Houciace	ingi	e inte	
	101		. 400	N1/A	. 100	nm ol /	
LP PLA2 ACTIVITY	101		<=123	N/A	>123	min/mL	

For details on reference ranges please refer to the reference range/comment section of the report.

Medical Information For Healthcare Providers: If you have questions about any of the tests in our Cardio IQ offering, please call Client Services at our Quest Diagnostics-Cleveland HeartLab Cardiometabolic Center of Excellence. They can be reached at 866.358.9828, option 1 to arrange a consult with our clinical education team.

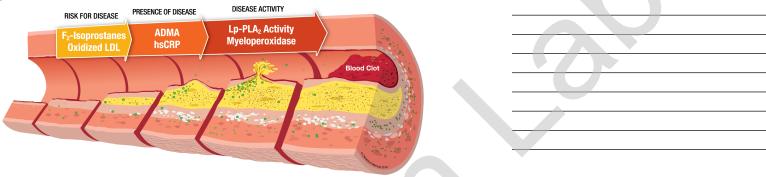


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INFLAMMATION SUMMARY

Your medical provider has gone beyond standard testing to examine your inflammation levels so you can Know Your Risk® for heart attack and stroke!

Lowering blood pressure, blood sugar and cholesterol reduces risk, but 50% of heart attack or stroke victims have normal cholesterol levels. Measuring inflammation levels can help identify hidden risk so your provider can catch the beginning or treat advanced stages of vascular disease. Always review your results and treatment considerations with your medical provider.



Disclaimer: The information provided here is for educational purposes only, and the results provided should be reviewed and interpreted by the treating physician. This Inflammation Summary is generated when two or more of the inflammation tests listed below are ordered, or for repeat tests due to a sample problem.

Risk for Disease	Presence of Disea	se	Disease Acti	vity
Test Result	Test	Result	Test	Result
F2-Isoprostanes/Creatinine TNO	ADMA/SDMA	TNO	Lp-PLA2 Activity nmol/min/mL	101 L
This urine test was not ordered. Your body needs F2-Isoprostanes for basic functions like making muscle. In excess, F2-Isops caused by inactivity, smoking and processed foods increase oxidation and blood vessel damage. Oxidized LDL TNO This blood test was not ordered.	This blood test was not ordered. ADMA is a chemical in your blood that oxide, a molecule needed to keep a her (the cells that line your blood vessels). ADMA indicate unhealthy cells in the bl may identify risk of cardiovascular diser hsCRP mg/L Your popult in the desirable same on	althy endothelium High levels of ood vessel and ase. 0.4 L	Your result is in the desirable rar you may have limited active chol Lp-PLA2 Activity measures vascula inflammation. When cholesterol em in the vessel wall, inflammation occ may identify active cholesterol build wall and the progression of cardiov Myeloperoxidase	esterol build-up. ar-specific ters and gets trapped surs. Lp-PLA2 Activity d-up inside the vessel
OxLDL measures oxidized damage to LDL cholesterol (bad cholesterol). High levels trigger inflammation, increasing your risk of developing metabolic syndrome and your future risk of plaque build-up. Your Lifestyle Considerations • Continue to focus on a healthy diet and exercise regularly to reduce your risk of developing cardiovascular disease in the future.	Your result in the desirable range su have low amounts of general inflamm body. hsCRP measures inflammation in the b hsCRP are seen with recent illness, tiss are fighting a virus or infection, with per disease as well as with cardiovascular	nation in your ody. Increases of sue injury, if you iodontal (gum)	This blood test was not ordered. MPO identifies vulnerable plaque d of cells lining the blood vessel. This white blood cells attacking the vess progression of cardiovascular disea "L" or Low Risk UND = Undetect "M" or Moderate	s breakdown leads to sel wall and marks the ase.

"H" or High Risk TNO = Test Not Ordered TNP = Test Not Performed INC = Incomputable

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Reference Range/Comments					

Analyte Name	In Range	Out Range	Reference Range	Lab
HDL LARGE		5593	>6729 nmol/L	Z4M
Relative Risk: Optimal >6729; Moderate 6729-5353;	High <5353. Male Ref	erence Range: 4334	to 10815 nmol/L; Female Reference Range: 5038 to 1788	6 nmol/L.
LDL MEDIUM		348	<215 nmol/L	Z4M
Relative Risk: Optimal <215; Moderate 215-301; High	n >301. Male Referen	ce Range: 167 to 485	nmol/L; Female Reference Range: 121 to 397 nmol/L.	
LDL PARTICLE NUMBER		1597	<1138 nmol/L	Z4M
Relative Risk: Optimal <1138; Moderate 1138-1409;	High >1409. Male and	Female Reference R	Range: 1016 to 2185 nmol/L.	
LDL PEAK SIZE		217.8	>222.9 Angstrom	Z4M
HeartLab. It has not been cleared or approved by the used for clinical purposes. Relative Risk: Optimal >22 cardiovascular event risk category cut points (optima Association between lipoprotein subfractions and car education.QuestDiagnostics.com/faq/FAQ134 (This I	U.S. Food and Drug 22.9; Moderate 222.9- I, moderate, high) are diovascular events is	Administration. This a 217.4; High <217.4. N based on an adult U. based on Musunuru e or informational/educ		and is m. Adult ations. se refer to http://
LDL SMALL		270	<142 nmol/L	Z4M
	n >219. Male Referen	ce Range: 123 to 441	nmol/L; Female Reference Range: 115 to 386 nmol/L.	
LDL-CHOLESTEROL		105	<100 mg/dL (calc)	Z4M
	I method providing be	tter accuracy than the	patients with >= 2 CHD risk factors. LDL-C is now calcul Friedewald equation in the estimation of LDL-C. Martin S	
APOLIPOPROTEIN B	87		<90 mg/dL	Z4M
Risk Category: Optimal <90 Moderate 90-129 High > or = 130 A desirable treatment target may be <80 depending on the risk category of the p patients on lipid lowering therapies, p diabetes with >1 risk factors, Stage 3 albuminuria, or heterozygous familial hypercholesterolemia. ApoB relative riss points are based on AACE/ACE and ACC/AH (Grundy SM, et al. 2019. doi:10.1016/j. Handelsman Y, et al. 2020. doi:10.4158/	atient including atients with ASC or greater CKD w k category cut A recommendation jacc.2018.11.002	VD, rith s		
CHOL/HDLC RATIO	3.1		<5.0 calc	Z4M
CHOLESTEROL, TOTAL	180		<200 mg/dL	Z4M
HDL CHOLESTEROL	59		>39 mg/dL	Z4M
HS CRP	0.4		<1.0 mg/L	Z4M
Reference Range: Optimal <1.0 mg/L, acc PS et al. Endocr Pract.2017;23(Suppl 2) Guidelines recommend hs-CRP ranges for Cardiovascular Risk in patients ages >1 Lower Relative Cardiovascular Risk; 1.0 Relative Cardiovascular Risk; 3.1-10.0 Cardiovascular Risk. If result is betwee mg/L, consider retesting in 1-2 weeks t transient elevation secondary to infect from the baseline CRP value. Persistent	:1-87. The AHA/C identifying Rela 7 years: <1.0 mg -3.0 mg/L Averag mg/L Higher Rela en 3.1 and 10.0 o exclude a beni ion or inflammat	DC tive 7/L tive gn ion		

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Analyte Name	In Range	Out Range	Reference Range	Lab
mg/L upon retesting may be associated inflammation. The AHA/CDC recommendat Pearson TA, Mensah GA, Alexander RW, inflammation and cardiovascular disea clinical and public health practice: healthcare professionals from the Cer Control and Prevention and the Americ Circulation 2003; 107(3): 499-511.	l with infection and ions are based on et al. Markers of se: application to A statement for aters for Disease			
LDL PATTERN	Α	A Pattern		Z4M
Relative Risk: Optimal Pattern A; High Pattern B.	Reference Range: Pattern A.			
LIPOPROTEIN (a)	10	<75 nmol/L		Z4M
Risk: Optimal <75 nmol/L; Moderate 75-125 nmol/ JACC 2017;69:692-711.	'L; High >125 nmol/L. Cardiova	ascular event risk category cut p	points (optimal, moderate, high) are	based on Tsimika S.
LP PLA2 ACTIVITY	101	<124 nmol/	/min/mL	Z4M
Relative Risk: Optimal <=123 nmol/min/mL; High : Quest Diagnostics. It has not been cleared or app				
NON HDL CHOLESTEROL	121	<130 mg/dl	L (calc)	Z4M
For patients with diabetes plus 1 major ASCVD ris	k factor, treating to a non-HDI	-C goal of <100 mg/dL (LDL-C	of <70 mg/dL) is considered a thera	peutic option.
TRIGLYCERIDES	70	<150 mg/dl		Z4M

PERFORMING SITE:

Z4M CLEVELAND HEARTLAB INC, 6701 CARNEGIE AVENUE SUITE 500, CLEVELAND, OH 44103-4623 Laboratory Director: M. QASIM ANSARI, MD , CLIA: 36D1032987

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