Report Status: Final



Patient Information	Specimen Information	Client Information
DOB: AGE: Gender: Fasting: Phone: Patient ID:	Specimen: Requisition: Lab Ref #: Collected: Received: Reported:	REQUEST A TEST - PWN HEALTH 7027 MILL RD STE 201 BRECKSVILLE, OH 44141-1852

COMMENTS: FASTING:YES

				1 m
Test Name LIPID PANEL	In Range	Out Of Range	Reference Range	Lab
CHOLESTEROL, TO	TAL 141		<200 mg/dL	
HDL. CHOLESTEROL			>40 mg/dL	
TRIGLYCERIDES	136		<150 mg/dL	
LDL-CHOLESTEROL	84		mg/dL (calc)	
Reference ra	nge: <100			
	nge <100 mg/dL for patients <70 mg/dL for diabetic pat disease.			
calculation,	calculated using the Marti which is a validated novel	method providing		
estimation o	acy than the Friedewald equ f LDL-C. al. JAMA. 2013;310(19): 20			
	ation.QuestDiagnostics.com/	faq/FAQ164)		
CHOL/HDLC RATIO	4.1		<5.0 (calc)	
NON HDL CHOLESTI		The second control of	<130 mg/dL (calc)	
factor, trea (LDL-C of <7	with diabetes plus 1 major ting to a non-HDL-C goal of 0 mg/dL) is considered a th	<100 mg/dL		
option.			5577.75 4 P	
HS CRP	1.4		mg/L	
For ages >17	Years:			
	Risk According to AHA/CDC	Guidelines		
<1.0	Lower relative cardiovascu	lar risk.		
1.0-3.0	Average relative cardiovas	cular risk.		
3.1-10.0	Higher relative cardiovasc	ular risk.		
	Consider retesting in 1 to	2 weeks to		
	exclude a benign transient	elevation		
	in the baseline CRP value	secondary		
	to infection or inflammati	on.		
>10.0	Persistent elevation, upon	retesting,		
	may be associated with inf	ection and		
	inflammation.			
Homocysteine	11		<11.4 umol/L	
	is increased by functional	deficiency of		
	tamin B12. Testing for met			
	es between these deficienci			
	homocysteine include renal			
antagonists	such as methotrexate and ph nitrous oxide.			



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Test Name Out Of Range In Range Reference Range Lab HEMOGLOBIN A1c WITH eAG MI HEMOGLOBIN A1c <5.7 % of total Hqb For the purpose of screening for the presence of diabetes: < 5.7% Consistent with the absence of diabetes 5.7-6.4% Consistent with increased risk for diabetes (prediabetes) > or =6.5% Consistent with diabetes This assay result is consistent with a decreased risk of diabetes. Currently, no consensus exists regarding use of hemoglobin A1c for diagnosis of diabetes in children. According to American Diabetes Association (ADA) guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes (ADA). eAG (mg/dL) 103 mg/dL eAG (mmol/L) 5.7 mmol/L LIPOPROTEIN (a) <10 <75 nmol/LAMD Risk Category Optimal < 75 nmol/L Moderate 75 - 125 nmol/L High > 125 nmol/L

Cardiovascular event risk category cut points (optimal, moderate, high) are based on Tsimika S.

JACC 2017;69:692-711.

INSULIN 3.3 uIU/mL MI

Reference Range < or = 18.4

Risk:

Optimal < or = 18.4

Moderate NA High >18.4

Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on Insulin Reference Interval studies performed at Quest Diagnostics in 2022.





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			Cardio IO	Q®	-		
	Cu	rrent	Risk	Reference Int	erval	10/10	Historical
Test Name	Resu	t & Risk	Optimal	Moderate	High	Units -	Result & Risk
	Optimal	Non-Optimal					
LIPOPROTEIN FRACTIO	NATION, IC	N MOBILIT					
LDL PARTICLE NUMBER	1121	l.	<1138	1138-1409	>1409	nmo l /L	
LDL SMALL	14'1		<142	142-219	>219	nmol/L	
LDL MEDIUM	207		<215	215-301	>301	nmol/L	
HDL LARGE	10910		>6729	6729-5353	<5353	nmol/L	
LDL PATTERN	Α		Α	N/A	В	Pattern	
LDL PEAK SIZE	229.9		>222.9	222.9-217.4	<217.4	Angstrom	
INFLAMMATION							
OxLDL	4.7		<60	60-69	>=70	U/L	-

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

4myheart Diet & Exercise Coaching Program: Need help achieving and maintaining an optimal weight? Managing stress? Trying to improve physical fitness levels? The 4myheart program provides support and personalized lifestyle guidance to help improve heart health. Please talk to your provider, visit 4myheart.com or call 1-800-432-7889 opt 2 to learn more.

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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Reference Range/Comments

Analyte Name	In Range	Out Range	Reference Range	Lab
	III Nange	Out Kange	Destination in the part of the control of the cont	ALC: VALAS
LDL PARTICLE NUMBER	1121		<1138 nmol/L	Z4M
Relative Risk: Optimal <1138; Moderate 1138-140	9; High >1409. Reference	e Range: <1138 nmo	N/L.	
LDL SMALL	141		<142 nmol/L	Z4M
Relative Risk: Optimal <142; Moderate 142-219; F	igh >219. Reference Ra	nge: <142 nmol/L.		
OxLDL	47		<60 U/L	Z4M
Based on a recent study of an 'apparently healthy'	and non-metabolic synd	rome population(1), t	he following cut-offs have been defined for OxLDL:	A cut-off of <60 U/L
>=70 U/L defines a population with a high relative	eloping metabolic syndro risk (3.5-fold). (Referenc	me, a range of 60 to	69 U/L defines a population with a moderate relative MA. 2008; 299: 2287-2293.)	risk (2.8 fold) and
defines a population with a low relative risk of devo >=70 U/L defines a population with a high relative	eloping metabolic syndro	me, a range of 60 to	69 U/L defines a population with a moderate relative	
defines a population with a low relative risk of devo >=70 U/L defines a population with a high relative HDL LARGE	eloping metabolic syndro risk (3.5-fold). (Referenc 10910	me, a range of 60 to e: 1-Holvoet et al. JA	69 U/L defines a population with a moderate relative MA. 2008; 299: 2287-2293.) >6729 nmol/L	risk (2.8 fold) and
defines a population with a low relative risk of devences. >=70 U/L defines a population with a high relative. HDL LARGE Relative Risk: Optimal >6729; Moderate 6729-535	eloping metabolic syndro risk (3.5-fold). (Referenc 10910	me, a range of 60 to e: 1-Holvoet et al. JA	69 U/L defines a population with a moderate relative MA. 2008; 299: 2287-2293.) >6729 nmol/L	risk (2.8 fold) and
defines a population with a low relative risk of deve	eloping metabolic syndro risk (3.5-fold). (Referenc 10910 3; High <5353. Referenc	me, a range of 60 to e: 1-Holvoet et al. JA ee Range: >6729 nmo	69 U/L defines a population with a moderate relative MA. 2008; 299: 2287-2293.) >6729 nmol/L	e risk (2.8 fold) and
defines a population with a low relative risk of devo >=70 U/L defines a population with a high relative HDL LARGE Relative Risk: Optimal >6729; Moderate 6729-535 LDL MEDIUM Relative Risk: Optimal <215; Moderate 215-301; H	eloping metabolic syndro risk (3.5-fold). (Referenc 10910 3; High <5353. Referenc	me, a range of 60 to e: 1-Holvoet et al. JA ee Range: >6729 nmo	69 U/L defines a population with a moderate relative MA. 2008; 299: 2287-2293.) >6729 nmol/L	e risk (2.8 fold) and
defines a population with a low relative risk of devo >=70 U/L defines a population with a high relative HDL LARGE Relative Risk: Optimal >6729; Moderate 6729-535 LDL MEDIUM	eloping metabolic syndro risk (3.5-fold). (Reference 10910 3; High <5353. Reference 207 ligh >301. Reference Ra	me, a range of 60 to e: 1-Holvoet et al. JA re Range: >6729 nmo nge: <215 nmol/L.	69 U/L defines a population with a moderate relative MA. 2008; 299: 2287-2293.) >6729 nmol/L <215 nmol/L	z4M

Relative Risk: Optimal >222.9; Moderate 222.9-217.4; High <217.4. Reference Range: >222.9 Angstrom. Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on an adult U.S. reference population plus two large cohort study populations. Association between lipoprotein subfractions and cardiovascular events is based on Musunuru et al. ATVB.2009;29:1975. For additional information, please refer to http://education.QuestDiagnostics.com/faq/FAQ134 (This link is being provided for informational/educational purposes only.)This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Cardiometabolic Center of Excellence at Cleveland HeartLab. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

PERFORMING SITE: