

Patient Information Specimen Information Client Information

Ken Berry M.D. **Annual Lab Panel- Sample Report**

COMMENTS: FASTING:YES Test Name	In Range	Out Of Range	Reference Range	Lak
HOMOCYSTEINE	9.3	out of Range	<11.4 umol/L	IG
Homocysteine is increase folate or vitamin B12. To differentiates between to fincreased homocystein antagonists such as methexposure to nitrous oxideselhub J, et al., Ann Ir	ed by functional cesting for methy these deficiencie include renal notrexate and phede.	Imalonic acid s. Other causes failure, folate nytoin, and		
COMPREHENSIVE METABOLIC		, ,		IG
PANEL				
GLUCOSE	80		65-99 mg/dL	
		Fa	sting reference interval	
UREA NITROGEN (BUN)	13		7-25 mg/dL	
CREATININE		1.39 н	0.60-1.26 mg/dL	
EGFR	67		> OR = 60 mL/min/1.73m2	
BUN/CREATININE RATIO	9		6-22 (calc)	
SODIUM	142		135-146 mmol/L	
POTASSIUM	4.0		3.5-5.3 mmol/L	
CHLORIDE	109		98-110 mmol/L	
CARBON DIOXIDE	21		20-32 mmol/L	
CALCIUM	9.1		8.6-10.3 mg/dL	
PROTEIN, TOTAL	6.5		6.1-8.1 g/dL	
ALBUMIN	4.3		3.6-5.1 g/dL	
GLOBULIN	2.2		1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	2.0		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.6		0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	44		36-130 U/L	
AST	14		10-40 U/L	
ALT	14		9-46 U/L	
HEMOGLOBIN Alc	4.9		<5.7 % of total Hgb	IG
For the purpose of screed diabetes:	ening for the pre	sence of		
<5.7% Consistent w	ith the absence	of diabotos		
	with increased ri			
(prediabetes	3)			
> or =6.5% Consistent w				
This assay result is cor of diabetes.	nsistent with a d	ecreased risk		

Currently, no consensus exists regarding use of hemoglobin Alc for diagnosis of diabetes in children.

According to American Diabetes Association (ADA) guidelines, hemoglobin Alc <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).



Patient Information	Specimen Informat	tion	Client Information	
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Test Name	In Range	Out Of Range	Reference Range	La
MAGNESIUM	2.0		1.5-2.5 mg/dL	IG
PHOSPHATE (AS PHOSPHORUS)	3.1		2.5-4.5 mg/dL	IG
GGT	11		3-90 U/L	IG
TSH	1.31		0.40-4.50 mIU/L	IG
SED RATE BY MODIFIED				IG
WESTERGREN	2		< OR = 15 mm/h	
CBC (INCLUDES DIFF/PLT)				IG
WHITE BLOOD CELL COUNT	5.1		3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	5.49		4.20-5.80 Million/uL	
HEMOGLOBIN	16.8		13.2-17.1 g/dL	
HEMATOCRIT	47.4		38.5-50.0 %	
MCV	86.3		80.0-100.0 fL	
MCH	30.6		27.0-33.0 pg	
MCHC	35.4		32.0-36.0 g/dL	
RDW	13.0		11.0-15.0 %	
PLATELET COUNT	212		140-400 Thousand/uL	
MPV	10.3		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	2846		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	1525		850-3900 cells/uL	
ABSOLUTE MONOCYTES	561		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	128		15-500 cells/uL	
ABSOLUTE BASOPHILS	41		0-200 cells/uL	
NEUTROPHILS	55.8		%	
LYMPHOCYTES	29.9		9	
MONOCYTES	11.0		96	
EOSINOPHILS	2.5		9	
BASOPHILS	0.8		%	
URINALYSIS, COMPLETE				IG
COLOR	DARK YELLOW	Ī	YELLOW	
APPEARANCE	CLEAR		CLEAR	
SPECIFIC GRAVITY	1.026		1.001-1.035	
PH	5.5		5.0-8.0	
GLUCOSE	NEGATIVE		NEGATIVE	
BILIRUBIN	NEGATIVE		NEGATIVE	
KETONES		TRACE	NEGATIVE	
OCCULT BLOOD	NEGATIVE		NEGATIVE	
PROTEIN	NEGATIVE		NEGATIVE	
NITRITE	NEGATIVE		NEGATIVE	
LEUKOCYTE ESTERASE	NEGATIVE		NEGATIVE	
WBC	NONE SEEN		< OR = 5 /HPF	
RBC	NONE SEEN		< OR = 2 /HPF	
SQUAMOUS EPITHELIAL CELLS	NONE SEEN		< OR = 5 /HPF	
BACTERIA	NONE SEEN		NONE SEEN /HPF	
HYALINE CAST	NONE SEEN	5	NONE SEEN /LPF	
This urine was analyzed f				
RBC, bacteria, casts, and Only those elements seen		lements.		
DDDDT#TN		25 L	38-380 ng/mL	та
FERRITIN C-DEPTIDE		0.74 L	0.80-3.85 ng/mL	IG TG
C-PEPTIDE DHEA SULFATE	157	U./4 L	0.80-3.85 ng/mL 93-415 mcg/dL	IG IG
DUEW DOTLYIF	137		93-413 IIICG/QL	TG



Patient Information	Specimen Information	Client Information
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Endocrinology			
Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	33	30-100 ng/mL	IG
Vitamin D Status 25-OH Vitam	in D:		
Deficiency: <20 ng Insufficiency: 20 - 29 ng Optimal: > or = 30 ng	g/mL		
For 25-OH Vitamin D testing on patients on D2-supplen QuestAssureD(TM) 25-OH VIT D, (D2,D3), LC/MS/MS			ed, the
For additional information, please refer to http://education purposes only.)	.QuestDiagnostics.com/faq/FAQ	199 (This link is being provided for information	onal/ educational
Physician Comments:			



Patient Information		Specimen	Information			Client Informa	tion
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	Cu	rrent	Cardio I	V® /Reference Int	erval		Historical
Test Name	-	t & Risk	Optimal	Moderate	High	Units	Result & Risk
	Optimal	Non-Optimal					
CHOLESTEROL, TOTAL	164		<200	N/A	>=200	mg/dL	
HDL CHOLESTEROL	46	<u>'</u>	>=40	N/A	<40	mg/dL	
TRIGLYCERIDES	64	<u>'</u>	<150	150-199	>=200	mg/dL	
	04	102				mg/dL	
LDL-CHOLESTEROL		103	<100	100-129	>129	(calc)	
CHOL/HDLC RATIO		3.6	<=3.5	3.6-5.0	>5.0	calc	
NON-HDL CHOLESTEROL	118		<130	130-189	>=190	mg/dL (calc)	
LIPOPROTEIN FRACTIO	NATION, IC	N MOBILIT					
LDL PARTICLE NUMBER		1796	<1138	1138-1409	>1409	nmol/L	
LDL SMALL		315	<142	142-219	>219	nmol/L	
LDL MEDIUM		436	<215	215-301	>301	nmol/L	
HDL LARGE		5768	>6729	6729-5353	<5353	nmol/L	
LDL PATTERN	Α		Α	N/A	В	Pattern	
LDL PEAK SIZE		219.3	>222.9	222.9-217.4	<217.4	Angstrom	
APOLIPOPROTEINS							
APOLIPOPROTEIN B	88		<90	90-119	>=120	mg/dL	
LIPOPROTEIN (a)	26		<75	75-125	>125	nmol/L	
INFLAMMATION							
HS CRP	0.7		<1.0	1.0-3.0	>3.0	mg/L	
LP PLA2 ACTIVITY	110		<=123	N/A	>123	nmol/ min/mL	



Patient Information		Specimen I	nformation			Client Informa	ntion
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	Curre	ent	Risk/l	Reference Int	terval		Historical
Test Name	Result 8	& Risk	Ontimal	Moderate	High	Units	Result & Risk
	Optimal I	Non-Optimal	Optimu	Houciace	Tilgii		
METABOLIC MARKERS				:			
INSULIN	2.2		<=18.4	N/A	>18.4	uIU/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.

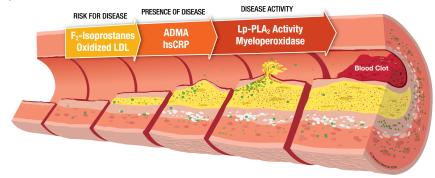


Patient Information	Specimen Information	Client Information
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INFLAMMATION SUMMARY

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 Result

Presence of Disease Test Result

Disease Activity Result

F2-Isoprostanes/Creatinine

TNO

ADMA/SDMA

TNO

110 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

Test

TNO

This blood test was not ordered.

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.

This blood test was not ordered.

ADMA is a chemical in your blood that reduces nitric oxide, a molecule needed to keep a healthy endothelium (the cells that line your blood vessels). High levels of ADMA indicate unhealthy cells in the blood vessel and may identify risk of cardiovascular disease.

hsCRP mg/L

Your result in the desirable range suggests that you have low amounts of general inflammation in your body.

hsCRP measures inflammation in the body. Increases of hsCRP are seen with recent illness, tissue injury, if you are fighting a virus or infection, with periodontal (gum) disease as well as with cardiovascular disease.

Lp-PLA2 Activity nmol/min/mL

Test

Your result is in the desirable range suggesting that you may have limited active cholesterol build-up.

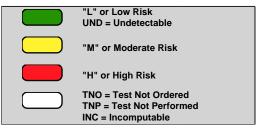
Lp-PLA2 Activity measures vascular-specific inflammation. When cholesterol enters and gets trapped in the vessel wall, inflammation occurs. Lp-PLA2 Activity may identify active cholesterol build-up inside the vessel wall and the progression of cardiovascular disease.

Myeloperoxidase

TNO

This blood test was not ordered.

MPO identifies vulnerable plaque due to the breakdown of cells lining the blood vessel. This breakdown leads to white blood cells attacking the vessel wall and marks the progression of cardiovascular disease.





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		rence Range/Com		
Analyte Name	In Range	Out Range	Reference Range	Lab
HDL LARGE	00 F0F0 II' I F0F0 M I D	5768	>6729 nmol/L	Z4M
<u> </u>	29-5353; High <5353. Male R		to 10815 nmol/L; Female Reference Range: 5038 to	
DL MEDIUM		436	<215 nmol/L	Z4M
<u> </u>	-301; High >301. Male Refere	nce Range: 167 to 485	5 nmol/L; Female Reference Range: 121 to 397 nmo	
LDL PARTICLE NUMBER		1796	<1138 nmol/L	Z4M
Relative Risk: Optimal <1138; Moderate 11	38-1409; High >1409. Male a	nd Female Reference I	Range: 1016 to 2185 nmol/L.	
DL PEAK SIZE		219.3	>222.9 Angstrom	Z4M
ut points (optimal, moderate, high) are bas nd cardiovascular events is based on Mus This link is being provided for informationa	sed on an adult U.S. reference unuru et al. ATVB.2009;29:19 l/educational purposes only.)T ter of Excellence at Cleveland	e population plus two la 175. For additional infor This test was developed I HeartLab. It has not b	the Range: 216 to 234.3 Angstrom. Adult cardiovascularge cohort study populations. Association between I rmation, please refer to http://education.QuestDiagnord and its analytical performance characteristics have been cleared or approved by the U.S. Food and Drug	ipoprotein subfraction ostics.com/faq/FAQ been determined
DL SMALL		315	<142 nmol/L	Z4M
Relative Risk: Optimal <142; Moderate 142	-219; High >219. Male Refere		Inmol/L; Female Reference Range: 115 to 386 nmo	 /L.
DL-CHOLESTEROL	-	103	<100 mg/dL (calc)	Z4M
	ated novel method providing b	nts with CHD or diabeti better accuracy than the	c patients with >= 2 CHD risk factors. LDL-C is now e Friedewald equation in the estimation of LDL-C. M	
APOLIPOPROTEIN B	88	,	<90 mg/dL	Z4M
			sk category cut points (optimal, moderate, high) are	based on National L
Association recommendations- Jacobson T CHOL/HDLC RATIO	A et al. J of Clin Lipid. 2015; 9 3.6	9: 129-169 and Jellinge	er PS et al. Endocr Pract. 2017;23(Suppl 2):1-87.	Z4M
CHOLESTEROL, TOTAL	164		<200 mg/dL	Z4M
HDL CHOLESTEROL	46		>39 mg/dL	Z4M
HS CRP	0.7		<1.0 mg/L	Z4M
The AHA/CDC Guidelines recommend Relative Cardiovascular Risk in Lower Relative Cardiovascular Risk in Lardiovascular Risk: 3.1-10.0 mg Risk. For patients with higher can 1-2 weeks to exclude a benign Enfection or inflammation from the Rievations of >10.0 mg/L upon reconfection and inflammation. The	hs-CRP ranges for ide patients ages >17 year sk; 1.0-3.0 mg/L Avera /L Higher Relative Car ardiovascular risk, contransient elevation she baseline CRP valuetesting may be associated AHA/CDC recommendation	es: <1.0 mg/L age Relative rdiovascular ansider retesting secondary to Persistent ated with		
Pearson TA et al. Circulation. 2 NSULIN	2.2		<18.5 uIU/mL	Z4M
	18.4, Moderate NA, High >18		r event risk category cut points (optimal, moderate, l	
	A	_·	A Pattern	Z4M
DL PATTERN				
LDL PATTERN Relative Risk: Optimal Pattern A; High Patte		ern A.		
		ern A.	<75 nmol/L	Z4M



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Reference Range/Comments

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Analyte Name	In Range	Out Range	Reference Range	Lab
LP PLA2 ACTIVITY	110		<124 nmol/min/mL	Z4M
	ellence at Cleveland Hea	artLab. It has not been	d its analytical performance characteristics have been cleared or approved by the U.S. Food and Drug Admi	
NON HDL CHOLESTEROL	118		<130 mg/dL (calc)	Z4M
For patients with diabetes plus 1 major ASCVD ris	sk factor, treating to a nor	n-HDL-C goal of <100	mg/dL (LDL-C of <70 mg/dL) is considered a theraped	utic option.
TRIGLYCERIDES	64		<150 mg/dL	Z4M

PERFORMING SITE:

IG QUEST DIAGNOSTICS-IRVING, 4770 REGENT BLVD., IRVING, TX 75063-2445 Laboratory Director: ROBERT L BRECKENRIDGE,MD, CLIA: 45D0697943
Z4M CLEVELAND HEARTLAB INC, 6701 CARNEGIE AVENUE SUITE 500, CLEVELAND, OH 44103-4623 Laboratory Director: BILL G RICHENDOLLAR,MD, CLIA: 36D1032987