

Specimen TZ805775G
Requisition 721903
Lab Ref No
Collected Date 05/02/2023 07:03
Received Date 05/02/2023 07:04

 Ultra Lab Tests, LLC
 9237 E Via de Ventura, Suite 220
 Scottsdale, AZ 85258
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Legend

Result Value Colors

Normal Result is within the clinical reference range

Result Value Labels

- H Above High Normal
- L Below Low Normal
- A Abnormal

Comments

FASTING: YES FASTING: YES

Result	Value	Reference Range	Lab
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Cardiovascular Health

Cholesterol & Triglycerides

Lipid Panel with Ratios

Cholesterol, Total

CHOLESTEROL, TOTAL	226 H 05/10/23	<200 mg/dL	TP
TRIGLYCERIDES	118 05/10/23	<150 mg/dL	TP
CHOL/HDLC RATIO	3.9 05/10/23	<5.0 (calc)	TP
LDL/HDL RATIO	2.5 05/10/23	(calc)	TP

Comments	Below Average Risk:	<2.28	
	Average Risk:	2.29-4.90	
	Moderate Risk:	4.91-7.12	
	High Risk:	>7.13	

Result	Value	Reference Range	Lab
NON HDL CHOLESTEROL	168 H 05/10/23	<130 mg/dL (calc)	TP

Comments For patients with diabetes plus 1 major ASCVD risk factor, treating to a non-HDL-C goal of <100 mg/dL (LDL-C of <70 mg/dL) is considered a therapeutic option.

HDL Particles

Lipid Panel with Ratios

Cholesterol, HDL

HDL CHOLESTEROL	58 05/10/23	> OR = 40 mg/dL	TP
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Lipoprotein Fractionation, Ion Mobility, Cardio IQ™

HDL LARGE	6507 L 05/10/23	>6729 nmol/L	Z4M
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Comments Relative Risk: Optimal >6729; Moderate 6729-5353; High <5353.
Reference Range: >6729 nmol/L.

LDL Particles

Lipid Panel with Ratios

LDL-Cholesterol

LDL-CHOLESTEROL	144 H 05/10/23	mg/dL (calc)	TP
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Comments Reference range: <100

Desirable range <100 mg/dL for primary prevention;
<70 mg/dL for patients with CHD or diabetic patients
with > or = 2 CHD risk factors.

LDL-C is now calculated using the Martin-Hopkins
calculation, which is a validated novel method providing
better accuracy than the Friedewald equation in the
estimation of LDL-C.

Martin SS et al. JAMA. 2013;310(19): 2061-2068
(<http://education.QuestDiagnostics.com/faq/FAQ164>)

Result	Value	Reference Range	Lab
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Apolipoprotein B

APOLIPOPROTEIN B	114 H 05/10/23	<90 mg/dL	AMD
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Comments Reference Range: <90

Risk Category:
 Optimal < 90
 Moderate 90 - 119
 High > or = 120

Cardiovascular event risk category cut points (optimal, moderate, high) are based on National Lipid Association recommendations-Jacobson TA et al. J Clin Lipid. 2015;9:129-169 and Jellinger PS et al. Endocr Pract. 2017;23(Suppl 2):1-87.

Lipoprotein (A)

LIPOPROTEIN (a)	187 H 05/10/23	<75 nmol/L	AMD
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Comments 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.

Lipoprotein Fractionation, Ion Mobility, Cardio IQ™

LDL PARTICLE NUMBER	1752 H 05/10/23	<1138 nmol/L	Z4M
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Comments Relative Risk: Optimal <1138; Moderate 1138-1409; High >1409.
 Reference Range: <1138 nmol/L.

LDL SMALL	428 H 05/10/23	<142 nmol/L	Z4M
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Comments Relative Risk: Optimal <142; Moderate 142-219; High >219. Reference Range: <142 nmol/L.

LDL MEDIUM	449 H 05/10/23	<215 nmol/L	Z4M
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Result	Value	Reference Range	Lab
Comments	Relative Risk: Optimal <215; Moderate 215-301; High >301. Reference Range: <215 nmol/L.		
LDL PATTERN	B A 05/10/23	A Pattern	Z4M
Comments	Relative Risk: Optimal Pattern A; High Pattern B. Reference Range: Pattern A.		
LDL PEAK SIZE	215.0 L 05/10/23	>222.9 Angstrom	Z4M
Comments	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.		

Metabolic & Endocrine Health

Diabetes & Insulin Resistance

Hemoglobin A1c (HgbA1C)

HEMOGLOBIN A1c	5.1 05/10/23	<5.7 % of total Hgb	TP
Comments	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)		

Result	Value	Reference Range	Lab
	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).		

Reproductive Hormones

Testosterone, Total And Free And Sex Hormone Binding Globulin

Testosterone, Free (Dialysis) and Total MS

TESTOSTERONE, TOTAL, MS	469 05/10/23	250-1100 ng/dL	AMD
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Comments	For additional information, please refer to http://education.questdiagnostics.com/faq/TotalTestosteroneLCMSMSFAQ165 (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 Nichols Institute Chantilly, VA. 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.		
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TESTOSTERONE, FREE	77.4 05/10/23	35.0-155.0 pg/mL	AMD
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Comments	This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute Chantilly, VA. 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.		
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SEX HORMONE BINDING GLOBULIN	38 05/10/23	10-50 nmol/L	AMD
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Blood Health

Platelets

CBC (includes Differential and Platelets)

Result	Value	Reference Range	Lab
PLATELET COUNT	267 05/10/23	140-400 Thousand/uL	TP

Red Blood Cells

CBC (includes Differential and Platelets)

RED BLOOD CELL COUNT	4.84 05/10/23	4.20-5.80 Million/uL	TP
HEMOGLOBIN	15.5 05/10/23	13.2-17.1 g/dL	TP
HEMATOCRIT	44.6 05/10/23	38.5-50.0 %	TP
MCV	92.1 05/10/23	80.0-100.0 fL	TP
MCH	32.0 05/10/23	27.0-33.0 pg	TP
MCHC	34.8 05/10/23	32.0-36.0 g/dL	TP
RDW	11.8 05/10/23	11.0-15.0 %	TP
MPV	10.7 05/10/23	7.5-12.5 fL	TP

White Blood Cells

CBC (includes Differential and Platelets)

WHITE BLOOD CELL COUNT	5.2 05/10/23	3.8-10.8 Thousand/uL	TP
ABSOLUTE NEUTROPHILS	2694 05/10/23	1500-7800 cells/uL	TP
ABSOLUTE LYMPHOCYTES	1882 05/10/23	850-3900 cells/uL	TP
ABSOLUTE MONOCYTES	442 05/10/23	200-950 cells/uL	TP
ABSOLUTE EOSINOPHILS	130 05/10/23	15-500 cells/uL	TP
ABSOLUTE BASOPHILS	52 05/10/23	0-200 cells/uL	TP
NEUTROPHILS	51.8 05/10/23	%	TP

Result	Value	Reference Range	Lab
LYMPHOCYTES	36.2 05/10/23	%	TP
MONOCYTES	8.5 05/10/23	%	TP
EOSINOPHILS	2.5 05/10/23	%	TP
BASOPHILS	1.0 05/10/23	%	TP

Other

Other

Selenium, Rbc

SELENIUM, RBC	281 05/10/23	120-300 mcg/L	SLI
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Comments

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Performing Laboratory Information

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