ClevelandHeartLab® Know your risk. | Quest Diagnostics®

**Report Status: Final**

| Patient Information | | Specimen Information | Client Information |
|---|---|---|---|
| **DOB:** | **AGE:** | Specimen: | |
| Gender: | Fasting: | Collected: | |
| Patient ID: | | Received: | |
| Health ID: | | Reported: | |

## Cardio IQ®

| Test Name | Current Result & Risk: Optimal | Current Result & Risk: Non-Optimal | Risk/Reference Interval: Optimal | Moderate | High | Units | Historical Result & Risk |
|---|---|---|---|---|---|---|---|
| **LIPOPROTEIN FRACTIONATION, ION MOBILI** | | | | | | | |
| LDL PARTICLE NUMBER | 1121 | | <1138 | 1138-1409 | >1409 | nmol/L | |
| LDL SMALL | 141 | | <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 | A | | A | N/A | B | Pattern | |
| LDL PEAK SIZE | 229.9 | | >222.9 | 222.9-217.4 | <217.4 | Angstrom | |
| **INFLAMMATION** | | | | | | | |
| OxLDL | 47 | | <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.

CLIENT SERVICES: SPECIMEN:

ClevelandHeartLab® Know your risk. | Quest Diagnostics®

**Report Status: Final**

| Patient Information | Specimen Information | Client Information |
|---|---|---|
| **DOB:** **AGE:**<br>Gender: Fasting:<br>Patient ID:<br>Health ID: | Specimen:<br>Collected:<br>Received:<br>Reported: | |

**Reference Range/Comments**

| Analyte Name | In Range | Out Range | Reference Range | Lab |
|---|---|---|---|---|
| LDL PARTICLE NUMBER | 1121 | | <1138 nmol/L | Z4M |
| Relative Risk: Optimal <1138; Moderate 1138-1409; High >1409. Reference Range: <1138 nmol/L. | | | | |
| LDL SMALL | 141 | | <142 nmol/L | Z4M |
| Relative Risk: Optimal <142; Moderate 142-219; High >219. Reference Range: <142 nmol/L. | | | | |
| OxLDL | 47 | | <60 U/L | Z4M |
| Based on a recent study of an 'apparently healthy' and non-metabolic syndrome population(1), the following cut-offs have been defined for OxLDL: A cut-off of <60 U/L defines a population with a low relative risk of developing metabolic syndrome, a range of 60 to 69 U/L defines a population with a moderate relative risk (2.8 fold) and >=70 U/L defines a population with a high relative risk (3.5-fold). (Reference: 1-Holvoet et al. JAMA. 2008; 299: 2287-2293.) | | | | |
| HDL LARGE | **10910** | | >6729 nmol/L | Z4M |
| Relative Risk: Optimal >6729; Moderate 6729-5353; High <5353. Reference Range: >6729 nmol/L. | | | | |
| LDL MEDIUM | **207** | | <215 nmol/L | Z4M |
| Relative Risk: Optimal <215; Moderate 215-301; High >301. Reference Range: <215 nmol/L. | | | | |
| LDL PATTERN | **A** | | A Pattern | Z4M |
| Relative Risk: Optimal Pattern A; High Pattern B. Reference Range: Pattern A. | | | | |
| LDL PEAK SIZE | **229.9** | | >222.9 Angstrom | 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:**

CLIENT SERVICES: SPECIMEN: