

CARDIOVASCULAR CARE



Cardiovascular Care SOLUTIONS

From routine lipid evaluations to complex genetic studies, LabCorp provides an extensive menu of cardiovascular disease (CVD) testing to support the spectrum of clinical scenarios that you face each day.

LabCorp's medical and scientific professionals have constructed a comprehensive test menu to address the complexities of cardiovascular care, and our ancillary tools and services help assimilate these tests into your practice's workflow.



Beyond a comprehensive test menu, LabCorp offers ancillary tools and services to help enhance your practice, organization, quality measures, health information technology, and patient care.

SERVICES AND TOOLS

LabCorp Link[™] for test orders, results delivery, analytics, and trending

Cardiovascular Report for at-risk patients

Cardiovascular-specific Test Request Form for efficient test ordering

SERVICES AND TOOLS

A Result Report Like No Other

Available in PDF or HL7 format, the cardiovascular report presents a patient-specific, guideline-based analysis of lipid test results in light of cardiovascular risk factors.

A patient friendly version of the report is available for patient consulting. Reports may also include Current Laboratory Results, with visual cues relative to reference intervals, and Flow Sheets, which trend results over eight future dates of service.

Generate the report for all patients when ordering a lipid panel, **NMR LipoProfile**[®] test, or either **Lipid Cascade** option by completing the Cardiovascular Report Physician Request and Acknowledgement form. Alternatively, order test **910385** in addition to a lipid panel, **NMR LipoProfile** test, or either **Lipid Cascade** option to generate the color graphic PDF report as needed.

- Provides actionable information in support of clinical decision-making.
- Can be used to help educate and counsel patients.



AVAILABLE TESTS

Lipids and Lipoproteins

| 016873 | Apolipoprotein A-1 | |
|--------|---|--|
| 216010 | Apolipoprotein Assessment | |
| 167015 | Apolipoprotein B | |
| 884247 | NMR LipoProfile® | |
| 361946 | Lipid Cascade With Reflex to Lipoprotein Particle Assessment by NMR | |
| 363676 | Lipid Cascade With Reflex to Apolipoprotein B | |
| 303756 | Lipid Panel | |
| 343925 | Lipid Profile With Non-HDL Cholesterol | |
| 368600 | Familial Hypercholesterolemia (FH) Screen | |
| 235036 | Lipoprotein Phenotyping Profile | |
| 120295 | Low-density Lipoprotein Cholesterol (Direct) | |
| 818542 | HDL-P, Total* | |
| 120188 | Lipoprotein(a) | |
| 235010 | Lipid Panel With LDL:HDL Ratio | |
| 221010 | Lipid Panel With Total Cholesterol:HDL Ratio | |
| | | |

* This test was developed and its performance characteristics were determined by LipoScience. It has not been cleared or approved by the Food and Drug Administration.

The Lipid Cascade "Smart" Testing Approach

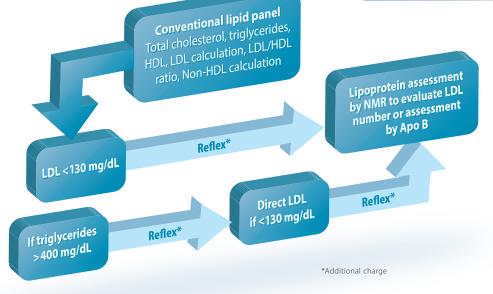
Requiring a single blood draw, LabCorp's Lipid Cascade provides convenient, step-wise testing for patient management.

Note: LDL values greater than 130 mg/dL do not reflex.

THE CLINICAL CHALLENGE

Cardiovascular disease risk management in at-risk patient populations

- The role of high levels of low-density lipoprotein (LDL) particles in the development of cardiovascular disease (CVD) is well established.¹
- Elevated LDL drives entry of these atherogenic particles into the arterial wall, accelerating development of CVD.¹ The longer there is exposure to elevated LDL, the greater the risk for clinical events.¹
- Use of LDL-lowering therapies is a core strategy in managing CVD risk.¹ Once therapy is initiated, LDL values are monitored to assess response to therapy and guide management decisions.
- Traditional low density lipoprotein-cholesterol (LDL-C) calculated or direct - is an estimate of LDL quantity based on the amount of cholesterol contained in the LDL particles.¹ However, the amount of cholesterol per particle varies – particularly in patients with type II diabetes, in statin-treated patients, and those with the cardiometabolic risk (CMR) factors. LDL-C may be an unreliable measure of LDL quantity for these at-risk patients in a management setting.^{2,3}
- LDL particle (LDL-P) can be measured by nuclear magnetic resonance (NMR) or estimated by apolipoprotein B (Apo B). Neither NMR nor Apo B quantifies LDL-P in a manner that depends on the amount of cholesterol contained inside the LDL-P.
- LabCorp's NMR LipoProfile test or Lipid Cascade options may help inform patient management in these at-risk populations.
- Each Lipid Cascade option begins with a traditional lipid panel. If the patient's LDL-C value is < 130 mg/dL⁴, the traditional lipid panel reflexes to LDL-P measurement by NMR or estimation by Apo B, depending upon which Lipid Cascade option has been ordered.



AVAILABLE TESTS

Other

| 503935 | Apo E Genotyping: Cardiovascular Risk |
|--------|---|
| 511238 | Methylenetetrahydrofolate Reductase (MTHFR) |
| 335884 | Metabolic Syndrome Profile |
| 004259 | Thyroid-stimulating Hormone (TSH) |
| 500140 | Heart Disease and Stroke Risk Profile |

Ambulatory ECG Monitoring Services

| 119530 | Mobile Cardiovascular Telemetry (MCT) |
|--------|--|
| 999706 | ECG Tracing and Computer Analysis |
| 019372 | Blood Pressure Monitoring |
| 019380 | Blood Pressure Unit—One-time Use and Analysis |
| 009274 | Holter Analysis Only |
| 009324 | Holter Recorder and Disposable Supplies - One-time Use and Analysis |
| 019323 | Holter Hook-up/Disconnect by LabCorp |
| 019331 | Holter Cardiologist Overread |
| 119503 | Patient-activated Event Monitoring (PAEM), Presymptom Cardiology Overread |
| 119511 | Patient-activated Event Monitoring (PAEM), Hook-up/Disconnect by LabCorp |
| 119420 | Patient-activated Event Monitoring (PAEM), Receipt of Transmissions |
| 119180 | ECG Computer Analysis Only |
| 990333 | ECG Cardiologist Overread Only, Adult |

Genetic Testing for Inherited Structural and Electrical Conditions

| 252651 | Atrial Septal Defect (ASD) With Atrioventricular Block (AVB): <i>NKX2.5</i> (Full Gene Sequencing) |
|--------|---|
| 252405 | Atrial Septal Defect (ASD) With Atrioventricular Block (AVB): NKX2.5 (Known Mutation) |
| 252880 | Early-onset Coronary Heart Disease/Familial Hypercholesterolemia: Three-gene Profile (LDLR, APOB, PCSK9) |
| 451422 | GeneSeq®: Cardio Familial Cardiomyopathy Profile |
| 451412 | GeneSeq®: Cardio Familial Arrhythmia Profile |
| 451432 | GeneSeq®: Cardio Familial Aortopathy Profile |
| 451441 | GeneSeq [®] : Cardio Noonan Syndrome and Related Conditions Profile |
| 451402 | GeneSeq®: Cardio Familial Congenital Heart Disease Profile |
| 451416 | GeneSeq [®] : Cardio Early-onset Coronary Artery Disease/Familial Hypercholesterolemia Profile |
| 252419 | Loeys-Dietz Syndrome (LDS): Two-gene Profile (<i>TGFBR1, TGFBR2</i>) (Full Gene Sequencing) |
| 252406 | Marfan Syndrome (MFS): <i>FBN1</i> (Full Gene Sequencing) |
| 252654 | Marfan Syndrome (MFS): FBN1 (Known Mutation) |
| 252409 | Marfan Syndrome to Loeys-Dietz Syndrome Reflex Profile (<i>MFS→LDS</i>): <i>FBN1→TGFBR1,TGFBR2</i> (Full Gene Sequencing) |
| 252399 | Pulmonic Stenosis: PTPN11 (Full Gene Sequencing) |
| 252647 | Pulmonic Stenosis: PTPN11 (Known Mutation) |
| 252422 | Thoracic Aortic Aneurysms and Dissections (TAAD): Three-gene Profile (<i>FBN1, TGFBR1, TGFBR2</i>) (Full Gene Sequencing) |

Acute Ischemic Markers

| 120816 | Creatine Kinase (CK), MB |
|--------|-----------------------------|
| 001362 | Creatine Kinase (CK), Total |
| 010405 | Myoglobin |
| 140150 | Troponin T |

AVAILABLE TESTS

Emerging Risk Factors & Inflammatory Markers

| 500140 | Heart Disease and Stroke Risk Profile |
|--------|--|
| 120766 | C-Reactive Protein (CRP), High Sensitivity (Cardiovascular Risk Assessment) |
| 001610 | Fibrinogen Activity |
| 117052 | Fibrinogen Antigen |
| 706994 | Homocyst(e)ine, Plasma |
| 140916 | Interleukin-6 |
| 123240 | Lipoprotein-associated Phospholipase A2 |
| 146787 | Plasminogen Activator Inhibitor I (PAI-1) Activity |
| 005215 | Sedimentation Rate, Modified Westergren |

Diabetes

| 004650 | Adiponectin |
|--------|---|
| 160721 | Antipancreatic Islet Cells |
| 001818 | Glucose, Plasma |
| 101000 | Gestational Glucose Tolerance Screening and Diagnostic Test (Two-hour, ADA 2011 Standards) |
| 143008 | Glutamic Acid Decarboxylase (GAD) Autoantibody |
| 001453 | Hemoglobin (Hb) A1c |
| 102525 | Hemoglobin (Hb) A1c With eAG |
| 141531 | IA ₂ Autoantibodies (Endocrine Sciences) |

Heart Failure

| 143000 | NT-proBNP |
|--------|--|
| 004110 | Galectin-3 |
| 140080 | Galectin-3 With B-type Natriuretic Peptide |
| 142005 | Galectin-3 With NT-proBNP |

Clotting Risk Assessment

| 005207 | Partial Thromboplastin Time (PTT), Activated |
|--------|--|
| 020321 | Prothrombin Time (PT) and Partial Thromboplastin Time (PTT) |
| 512103 | Thrombotic Risk Profile, DNA Analysis |

Genetic Assessment

| 511710 | Clopidogrel CYP2C19 Genotyping |
|--------|--------------------------------|
| 511460 | Warfarin (P450 2C9 and VKORC1) |

Therapy Monitoring

| 005199 | Prothrombin Time (PT) |
|--------|--|
| 485199 | Prothrombin Time (PT) (Serial Monitor) |
| 007385 | Digoxin |
| 706705 | Amiodarone |
| 085662 | Flecainide, Serum or Plasma |
| 007831 | Quinidine, Serum or Plasma |
| 007864 | Disopyramide, Serum or Plasma |

COMPLETING THE CONTINUUM OF CARDIOVASCULAR CARE

References

- 1. Toth, et al. Cardiovascular risk in patients achieving low-density lipoprotein cholesterol and particle targets. Atherosclerosis, Volume 235, Issue 2, August 2014. Pages 585-591.
- 2. Brunzell, JD, et al. Lipoprotein Management in Patients With Cardiometabolic Risk. Diabetes Care, Vol. 31, No. 4, Apr 2008. Pages 811-822.
- 3. AACE Comprehensive Diabetes Management Algorithm 2013 Consensus Statement. Endocrine Practice, Vol. 19 (Suppl 2), May/June 2013. Pages 1-48.
- 4. Detection, Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel III). National Cholesterol Education Program (NCEP) Expert Panel. NIH Publication No. 01-3670, May 2001.

For the most current information regarding test options, including specimen requirements and CPT codes, please consult the online Test Menu at www.LabCorp.com.

