











# BOSTON HEART DIAGNOSTICS

## TEST MENU

### Boston Heart exclusive tests

Base your ordering decisions on medical necessity. For additional information on each test, consult the Boston Heart Test Menu on our website ([bostonheartdiagnostics.com](http://bostonheartdiagnostics.com)).

#### Exclusive Tests

-  Boston Heart CVMap
-  Boston Heart Cholesterol Balance<sup>®</sup>
-  Boston Heart Fatty Acid Balance<sup>™\*</sup>
-  Boston Heart HDL Map<sup>®</sup>
-  Boston Heart LipoMap<sup>®</sup>
-  Boston Heart GI Balance
-  Boston Heart Prediabetes Assessment<sup>®</sup>
-  Boston Heart Beta Cell Function and Risk Score
-  Boston Heart Statin-Induced Myopathy (SLC01B1) Genotype
-  Boston Heart Polygenic Risk Map<sup>™</sup>

#### Lipids

ApoA-I  
Apo-B\*  
ApoB/ApoA-I  
Direct LDL-C\*  
HDL-C\*  
HDL-C/TG Ratio  
HDL Particle Number  
LDL Particle Number  
Lp(a)\*  
Non-HDL-C  
sdLDL-C\*  
Total Cholesterol\*  
TC/HDL-C Ratio  
Triglycerides\*  
VLDL-C  
VLDL-C/TG Ratio

#### Metabolics

Glucose\*  
Adiponectin  
Glycated Serum Protein (GSP)  
HbA1c\*  
Insulin  
C-Peptide  
HOMA-B (Beta Cell Activity)  
HOMA-IR (Insulin Resistance)  
HOMA-S (Insulin Sensitivity)

#### Inflammation and Oxidation

hs-CRP\*  
LpPLA<sub>2</sub> Activity  
Myeloperoxidase (MPO)  
Fibrinogen  
IL-6 (Reference Ranges for CVD or COVID19)  
OxLDL  
OxPL-apoB  
TMAO

#### Genetics

ApoE (CVD/Dementia Risk)\*  
Factor V Leiden (Clot Formation)\*  
Factor II (Clot Formation)\*  
CYP2C19 (Clopidogrel Response)\*  
SLC01B1 (Statin-Induced Myopathy)\*  
MTHFR (Folate Metabolism)\*  
LPA (Aspirin Benefit)\*  
KIF6 (Statin Benefit)\*  
9p21 (Premature CVD Risk)\*  
4q25 (Atrial Fibrillation Risk)\*  
Haptoglobin (Vitamin E in Diabetes)\*

#### Hormones

##### Sex and Adrenal Hormones

Aldosterone  
Cortisol\*  
DHEA-S\*  
Estradiol  
FSH\*  
LH\*  
Progesterone  
Prolactin  
PSA, Total\*  
PSA, Total with reflex to Free PSA  
SHBG\*  
Testosterone, Free\*  
Testosterone, Total\*

##### Thyroid and Parathyroid

TSH\*  
TSH with reflex to TT3 and FT4  
T3, Free and Total  
T4, Free and Total  
Thyroglobulin Antibody (Anti-TG)  
Thyroid Peroxidase (TPO) Antibody  
Parathyroid Hormone

#### Liver and Kidney

**Liver**  
ALT  
AST  
Alkaline Phosphatase  
Bilirubin, Total and Direct  
Gamma Glutamyl Transferase  
**Kidney**  
BUN  
BUN/Creatinine Ratio  
Creatinine\*  
eGFR/Creatinine Ratio  
Cystatin C  
eGFR/Cystatin C Ratio  
Urine Albumin/Creatinine Ratio

#### Other Chemistry and Hematology

Albumin\*  
Amylase  
Calcium  
CBC with or without Differential  
Chloride  
CO<sub>2</sub>  
CoQ10  
Creatine Kinase  
Ferritin  
Folate\*  
Homocysteine\*  
Iron  
Iron Binding Capacity (TIBC and UIBC)  
Magnesium  
NT-proBNP  
Phosphorus  
Potassium  
Protein, Total  
Sodium  
Troponin T Gen 5  
Uric Acid\*  
Vitamin B12\*  
Vitamin D\*

#### Infectious Disease

##### Antibody

SARS-CoV-2 Spike (mostly IgG)

\*Available from Dried Blood Spots

Tests not available in New York State: Prediabetes Assessment, Beta Cell Function, Aldosterone, IL-6, HDLP, TMAO, LipoMap, KIF6, 9P21, 4Q25, Haptoglobin and Polygenic Risk Ma

Tests not available in New Jersey: IL-6 and LipoMap

For more information, visit [bostonheartdiagnostics.com](http://bostonheartdiagnostics.com) or call **877.425.1252**.

# IS BOSTON HEART TESTING RIGHT FOR YOUR PATIENTS?

Patients appropriate for Boston Heart testing have:

## One or more:\*

- History of CVD event, including heart attack, bypass, angioplasty or stroke
- Diabetes (glucose >125 mg/dL)
- Chronic kidney disease (GFR <60 mL/min/1.73 m<sup>2</sup>)
- LDL-C  $\geq$ 190 mg/dL
- Evidence of plaque and/or positive CAC score
- $\geq$ 7.5% 10-year CVD risk on AHA/ACC risk calculator

## Or three or more:\*

- Age (male  $\geq$ 45, female  $\geq$ 55)
- Family history of early CHD (male <55, female <65)
- High total cholesterol (>240 mg/dL)
- LDL-C 160–189 mg/dL
- Low HDL-C (male <40 mg/dL, female <50 mg/dL)
- Cigarette smoking
- High blood pressure ( $\geq$ 140/ $\geq$ 90 mm Hg)
- Prescribed blood pressure medication
- Prediabetes (glucose 100–125 mg/dL)
- Physical inactivity
- Obesity or overweight

**50%**  
of patients  
who suffer a heart  
attack have normal  
LDL cholesterol<sup>†</sup>

\*Based on the 2013 ACC/AHA Guidelines on the Assessment of Cardiovascular Risk and National Lipid Association Recommendations for Patient-Centered Management of Dyslipidemia

<sup>†</sup>Sachdeva A, Cannon CP, Deedwania PC, et al: for the Get With The Guidelines Steering Committee and Hospitals. Lipid levels in patients hospitalized with coronary artery disease: an analysis of 136,905 hospitalizations in Get With The Guidelines. *Am Heart J.* 2009;157(1):111–117.e2.