

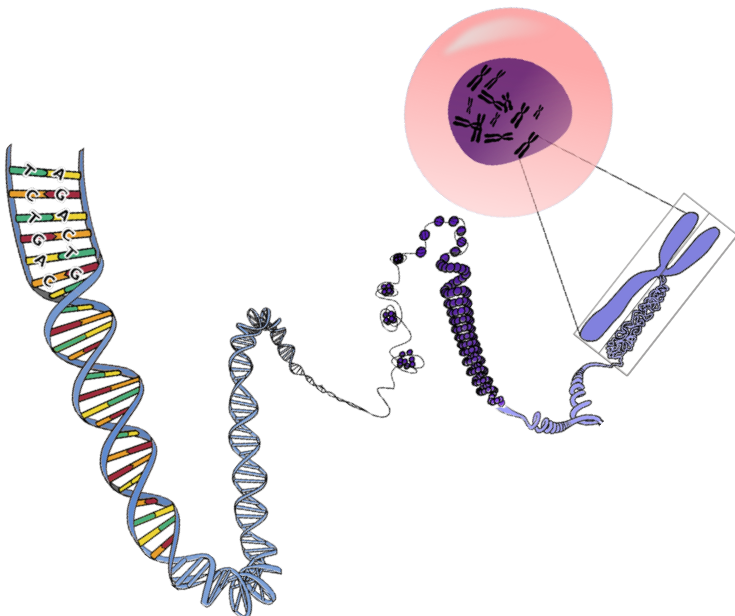
BOSTON HEART DIAGNOSTICS

POLYGENIC RISK MAP

Boston Heart's Polygenic Risk Map test is a genetic test that leverages Polygenic Risk Score (PRS) analysis and reporting. The resulting risk scores provide clinical insights into a variety of important health conditions.

CLINICAL UTILITY OF THE POLYGENIC RISK MAP

- Risk scores are determined by numerous well-studied genetic variations, and allow for impactful and targeted application of genomic testing to personalized medicine.
- High-risk individuals generally have a substantially increased relative genetic risk for these conditions as compared to low-risk subjects.
- Because lifetime risk of these conditions are also substantially influenced by environment, lifestyle, and medical care, a greater understanding of genetic risks may lead to greater preventive efforts.
- Cost effectiveness studies suggest that providers can reduce cardiovascular events and healthcare system costs by using polygenic risk scores in appropriate patients.¹
- This type of testing is meant to augment rather than replace standard risk factor assessments for cardiovascular disease, breast cancer, prostate cancer or other conditions.



Improve
decision-making,
outcomes, and
healthcare
costs¹

POLYGENIC RISK MAP REPORTS

Validated polygenic risk scores are available for many of the most prevalent causes of premature death and morbidity.

- **Coronary Artery Disease (CAD)** - Leading cause of death.
- **Atrial Fibrillation** - 5-fold increase in stroke risk.
- **Type 2 Diabetes** - 3-fold increase in CAD risk.
- **Hypertension** - Causes CAD, stroke, and kidney disease.
- **BMI** - Increases risk of CAD, diabetes and some cancers.
- **Triglycerides** - Increases risk of CAD and pancreatitis.
- **Low HDL Cholesterol** - Increases risk of CAD.
- **High LDL Cholesterol** - Increases risk of CAD.
- **Lipoprotein (a)** - Increases risk of CAD and aortic stenosis.
- **Alzheimer's Disease** - The leading cause of dementia.
- **Inflammatory Bowel Disease (IBD)** - Ulcerative colitis and Crohn's disease risk.
- **Breast Cancer** - A leading cause of cancer in women.
- **Osteoporosis** - A common cause of bone fractures.
- **Early Menopause** - Risk of menopause before age 45.
- **Prostate Cancer** - A leading cause of cancer in men.
- **Ancestry** - Based on 26 global populations.

ABOUT THE METHODS

- Uses the Illumina Infinium Global Screening Array technology.
- The analysis assesses over 650,000 DNA markers across the human genome.
- Risk scores are based on over 500,000 subjects from the United Kingdom BioBank and multiple other studies.
- Genetic analyses are performed by Eurofins laboratory partner Clinical Enterprise.
- The risk informatics are provided by Allelica, a leading polygenic risk score company.
- Risk scores provide the lifetime risk of developing the condition of interest.

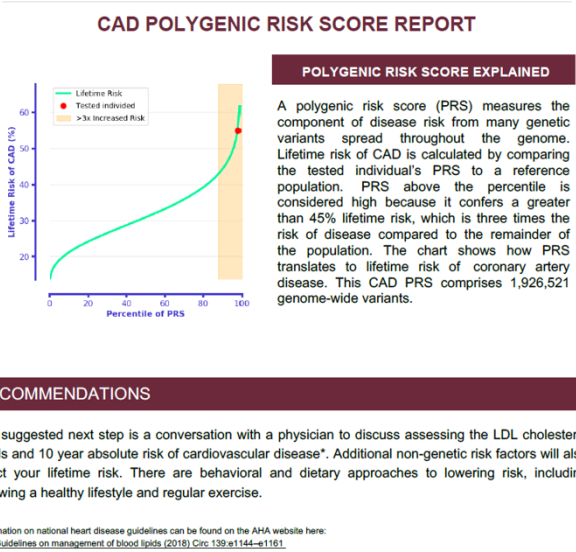
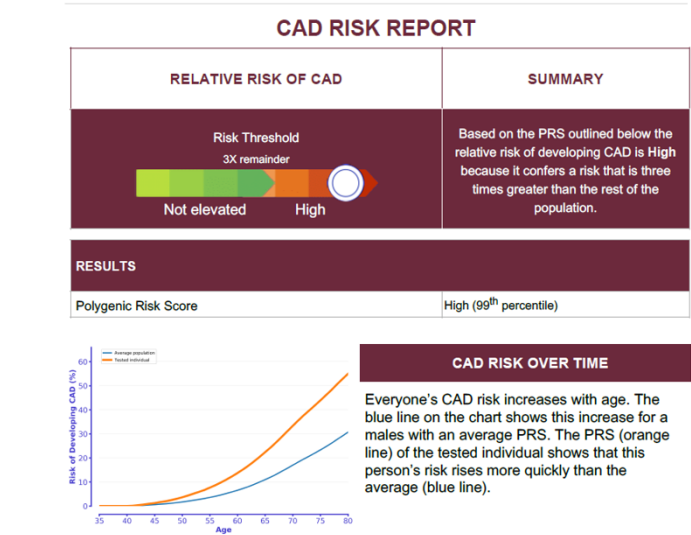
ORDERING, REPORTING, AND SAMPLE INFORMATION

Polygenic Risk Map Panels

Polygenic Risk Map – Female Complete	Order Code:87103	\$ 349
• CAD • Atrial fibrillation • Type 2 Diabetes • Hypertension • BMI • Triglycerides • Low HDL Cholesterol • High LDL Cholesterol • Lipoprotein (a) • Alzheimer's disease • Inflammatory Bowel Disease (IBD) • Breast cancer • Osteoporosis • Early Menopause • Ancestry		
Polygenic Risk Map – Male Complete	Order Code:87104	\$ 349
• CAD • Atrial fibrillation • Type 2 Diabetes • Hypertension • BMI • Triglycerides • Low HDL Cholesterol • High LDL Cholesterol • Lipoprotein (a) • Alzheimer's disease • Inflammatory Bowel Disease (IBD) • Prostate cancer • Ancestry		
Polygenic Risk Map – Cardiovascular Disease	Order Code:87101	\$ 199
• CAD • Atrial fibrillation • Type 2 Diabetes • Hypertension • BMI • Triglycerides • Low HDL Cholesterol • High LDL Cholesterol • Lipoprotein (a) • Ancestry		
Polygenic Risk Map – Female Essential	Order Code:87102	\$ 199
• Breast cancer • Osteoporosis • Early Menopause • Ancestry		
Polygenic Risk Map – Prostate Cancer	Order Code:87105	\$ 199
• Prostate cancer • Ancestry		
Polygenic Risk Map – Alzheimer's Disease	Order Code:87106	\$ 199
• Alzheimer's disease • Ancestry		
Polygenic Risk Map – Inflammatory Bowel Disease (IBD)	Order Code:87107	\$ 199
• Inflammatory Bowel Disease (IBD) • Ancestry		

The \$199 panels can be combined: \$199 for the first and \$49 for each additional.

Sample CAD Report



Specimen Requirements

- Saliva

For more information, contact your **Area Sales Manager** or
Customer Care at **877.425.1252** or **customer@bostonheartdx.com**

References
1. Mujwara D, Henno G, Vernon ST, et al. Integrating a Polygenic Risk Score for Coronary Artery Disease as a Risk-Enhancing Factor in the Pooled Cohort Equation: A Cost-Effectiveness Analysis Study. J Am Heart Assoc. 2022;11(12):e025236

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