

CARDIAC HEALTH



PROVIDER EDUCATION RESOURCE

The AYUMETRIX Cardiac Health Genetic Panel gives insight into how a patient's genetic predisposition to cardiac problems can help healthcare providers optimize diagnosis and treatment.

Cardiovascular disease is a leading contributor to morbidity and mortality, with over 17 million deaths occurring annually worldwide. Risk increases in adults over the age of 60, and in part is attributable to our inherited genetic makeup. Cardiovascular disease – which includes coronary heart disease, cerebrovascular disease, peripheral artery disease, and atherosclerosis – is heavily influenced by factors such as insulin resistance, hypertension, dyslipidemia, inflammation, and coagulation properties. Many of these factors can be mitigated by lifestyle changes including smoking cessation, increasing aerobic exercise, and eating a well-balanced diet, which can reduce the risk of catastrophic events such as myocardial infarction, or ischemic and hemorrhagic stroke. However, in some cases, particularly where family history of cardiovascular disease is prevalent, medications are needed to better manage health outcomes. In some patients, lifestyle and medication are still not enough, and greater intervention is necessary.



Why Test?

The AYUMETRIX Cardiac Health Panel is designed to highlight confounding factors barring appropriate cardiovascular risk reduction in patients. The panel focuses on eight genetic markers affecting hypertension, total cholesterol, LDL (low-density lipoprotein) cholesterol, HDL (high-density lipoprotein) cholesterol, triglycerides, thrombotic risk, homocysteinemia, insulin resistance, and statin-induced myopathy risk.

Strong candidates for the AYUMETRIX Cardiac Health Panel include patients with:

- Treatment-resistant hypertension
- Poor control over cholesterol levels
- Personal history of angina, DVT, PE, CHF, MI or CVA
- Introduction of new statin medications
- Family history of cardiovascular disease
- Stroke or heart disease in the young
- Idiopathic cardiovascular disease

Test Categories Included in the Cardiac Health Genetic Panel

GENETIC MARKERS	EFFECT ON CARDIAC HEALTH
Apo E	Impacts management of cholesterol levels and risk of heart attack, hypertension, and coronary disease
Factor II (Prothrombin)	Affects the body's ability to form blood clots which is tied to the risk of many cardiovascular-related health outcomes
Factor V	Enhances body's coagulability which leads to thromboembolisms
MTHFR	Contributes to increased levels of homocysteine, a known risk factor for heart disease, atherosclerosis, and peripheral neuropathy
9p21	Associated with cellular growth and proliferation in relation to atherosclerosis, arterial stiffness and coronary artery disease
eNOS/ NOS3	Influences nitric oxide levels leading to risk of endothelial dysfunction, and many subsequent cardiovascular effects
SLCO1B1*5	Modulates the body's ability to metabolize statin medications, which are commonly prescribed to improve cholesterol
AGT	Key to maintaining blood pressure, patients who carry this mutation may be at an increased risk of developing hypertension

Get started today

Make AYUMETRIX Genetic Testing Part of your Patient's Treatment Plan.

- Become a Provider
- Request Test Kits

Questions? Please contact our customer service team at 800-215-8898 or by email at info@ayumetrix.com This email address is being protected from spambots. We are available Monday through Friday, from 8:00 AM - 5:00 PM, Pacific Time.

For provider pricing information, please call us at

1-800-218-8898 or

info@ayumetrix.com



Selected References:

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