



# *avigena*

**The Leading Genomic Prevention Company in the MENA**

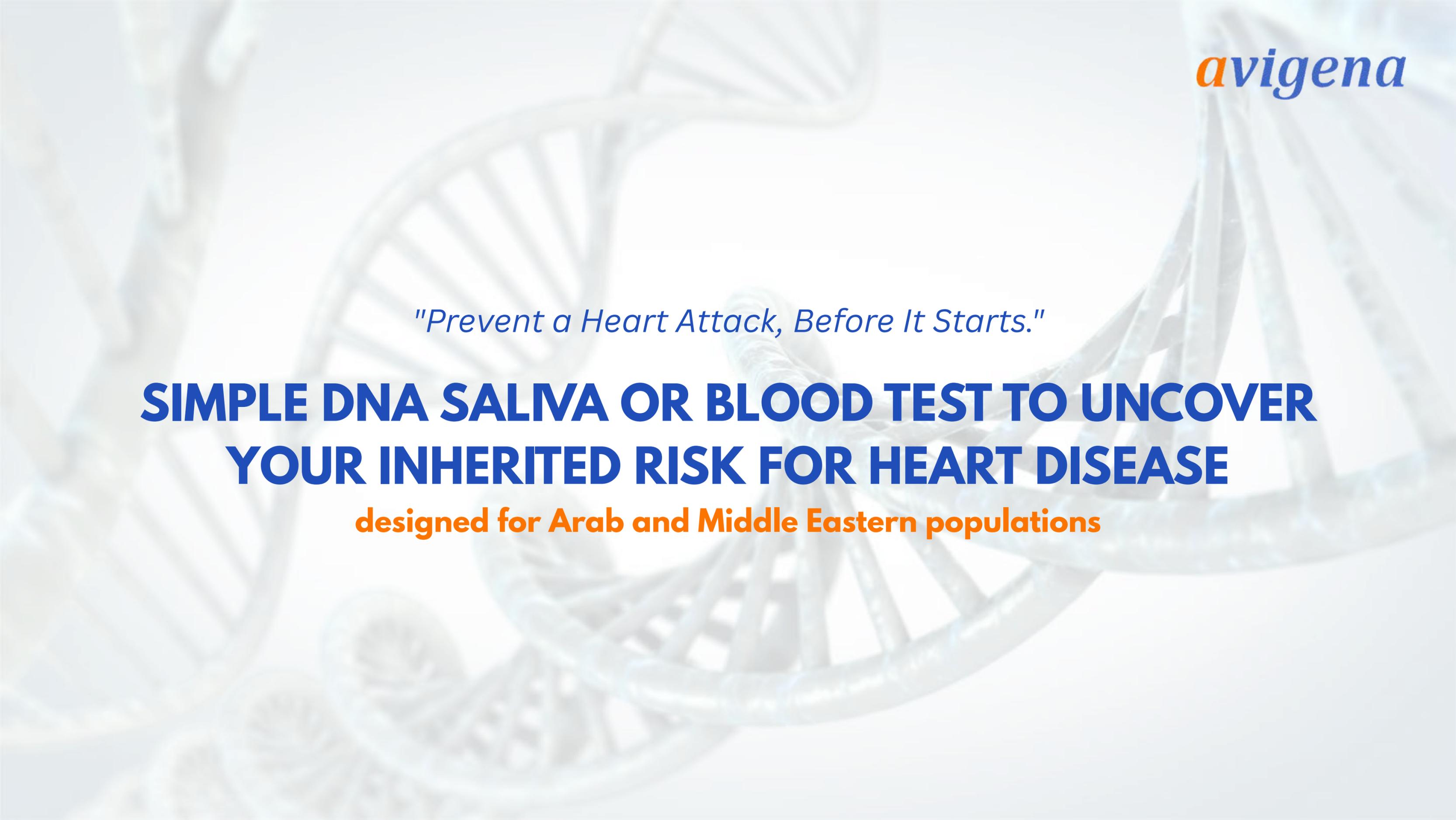
CONTACT US FOR MORE INFORMATION:



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[info@avigena.com](mailto:info@avigena.com)



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*"Prevent a Heart Attack, Before It Starts."*

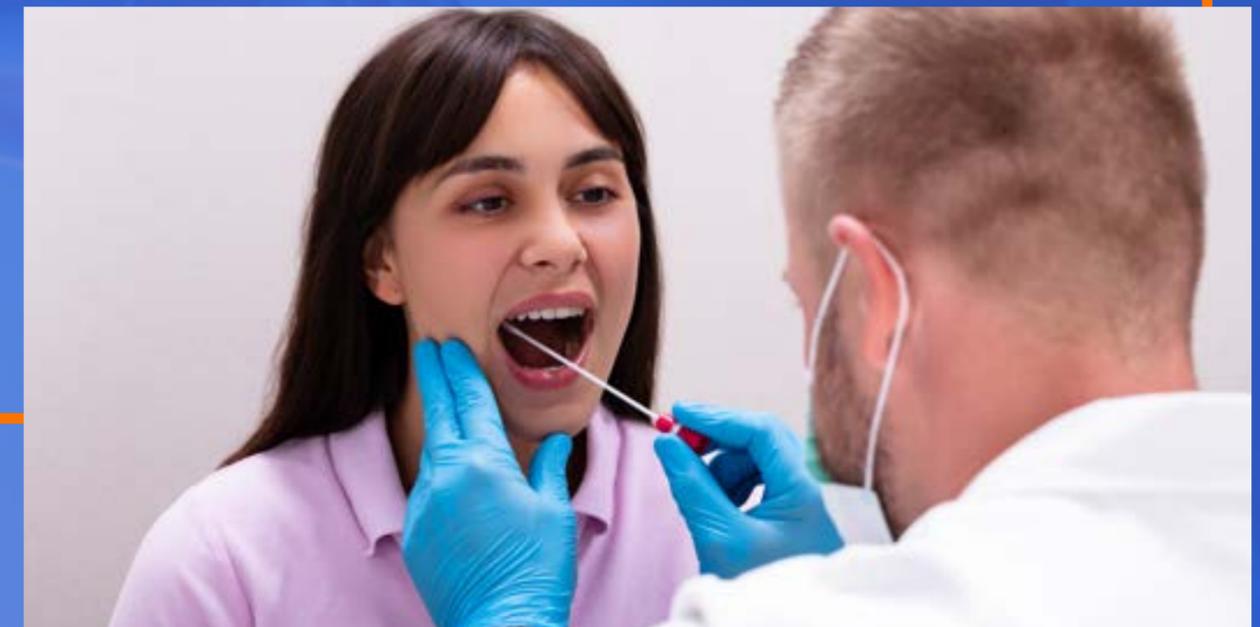
**SIMPLE DNA SALVA OR BLOOD TEST TO UNCOVER  
YOUR INHERITED RISK FOR HEART DISEASE**

**designed for Arab and Middle Eastern populations**

## WHAT IS A POLYGENIC SCORE?

- ▶ Everyone has small genetic differences, called variants.
- ▶ These variants can affect the risk of developing certain diseases.
- ▶ A polygenic risk score (PRS) combines the effects of millions of genetic variants to estimate your disease risk.
- ▶ While each variant has a small effect, their combined impact can be significant.

If you want to know more about PRS, you can visit:  
<https://polygenicscores.org/explained/>



# POLYGENIC RISK SCORES: WHAT THE NUMBERS MEAN

## Percentile:

Shows how your risk compares to others. For example, being in the 90th percentile means your risk is higher than 90% of people.

## Relative Risk:

Tells you how much higher or lower your risk is compared to the average person. For instance, a relative risk of 2.5 means your risk is two and a half times higher than average.

## High Genetic Risk:

Indicates your score is much higher than most people's. Typically, this means your risk is more than double the average.

## Lifetime Risk:

Estimates your overall chance of developing the disease during your life, such as a 25% chance by age 80.



**Doctors use these numbers along with other health information to help guide your care.**

## WHO SHOULD TAKE THIS TEST?



### **Adults (18-79 years)**

- Seeking personalized strategies for heart disease prevention
- With a family history of coronary artery disease (CAD)
- With limited or unknown family history
- Who developed CAD despite lacking traditional risk factors



### **Adults (40-79 years)**

- With borderline or intermediate risk for heart disease
- Who may benefit from knowing their genetic predisposition



### **Special Pediatric Group (Ages 10-18)**

- With an early family history of CAD
- Diagnosed with familial hypercholesterolemia (FH)
- Living with obesity, diabetes, chronic illness, or others
- Available upon special request

## DOES AGE AFFECT PRS USE?

Your Polygenic Risk Score (PRS) stays the same as you age, but how it's used changes:



### **If you're younger:**

A high PRS means you can start prevention early.

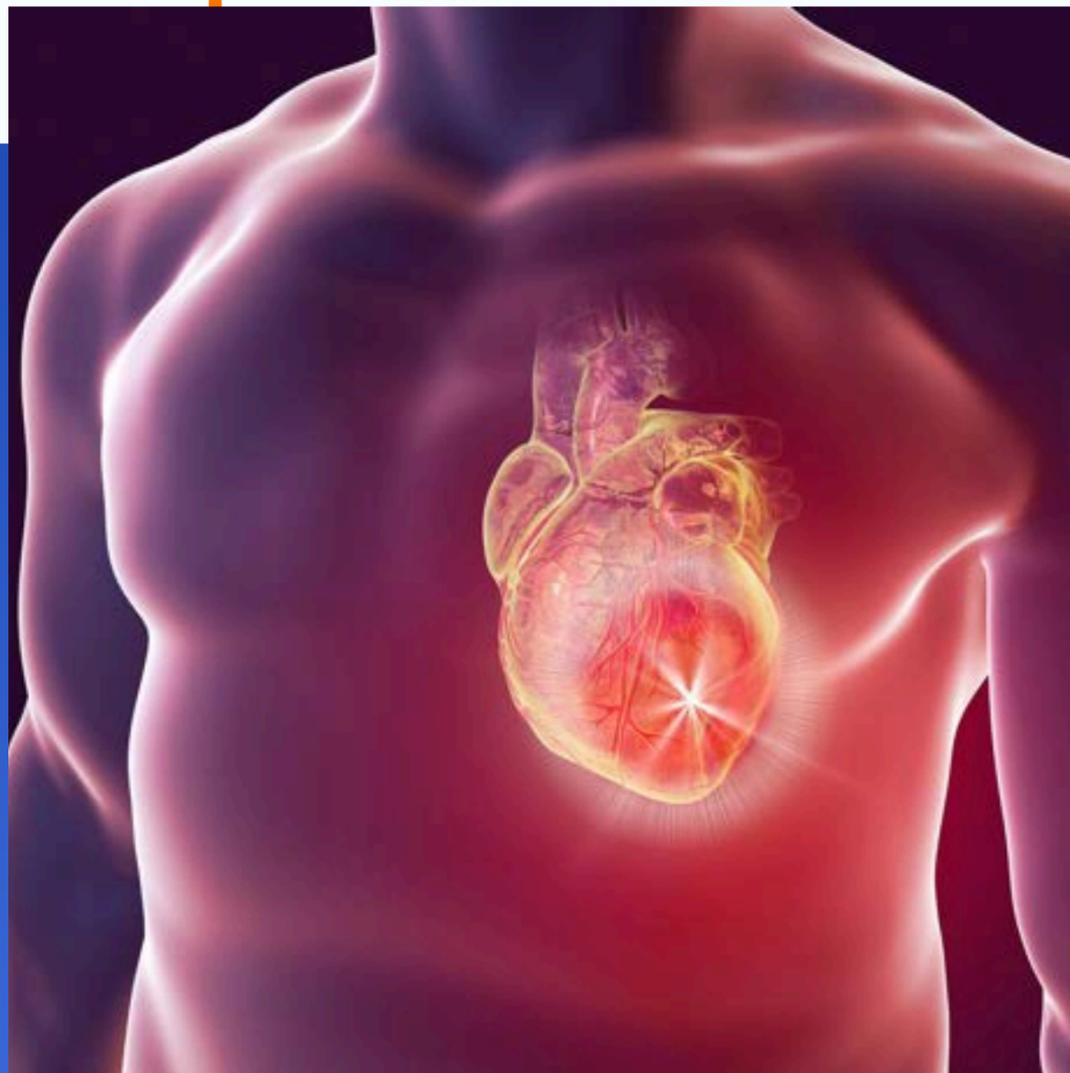


### **If you're older:**

PRS helps doctors fine-tune your risk and guide care.

Doctors **always look at PRS together with your age** and other health factors to give you the best advice.

## Why PRS for CAD Matters



Many heart attacks happen with no warning signs. PRS helps you act early.



It detects risk even when traditional factors (like cholesterol or blood pressure) are normal.



Even if you feel healthy today, your genes may carry silent risks that only a PRS can detect.



PRS is not a diagnosis but a powerful tool for personalized prevention.

## **BENEFITS OF CAD-PRS TEST**

### **For Patients:**

It enhances understanding of personal risk and guides actionable steps to reduce overall disease risk.

### **For Healthcare Providers:**

The test helps reclassify intermediate-risk patients, enabling tailored preventive or therapeutic strategies based on combined clinical and genetic data.

## HOW IT WORKS – STEP-BY-STEP



### Order the Test

You or your doctor places an order through our secure platform.

01



### Collect Your Sample

The saliva kit can be used at a designated location or sent to you.

02



### DNA Analysis

Your sample is sent to our certified lab.

03



### Get Your Results

Your report is sent to you and available in your secure portal.

04



### Virtual Counseling

A video call will be scheduled with a genetic counselor to explain your results and next steps.

05

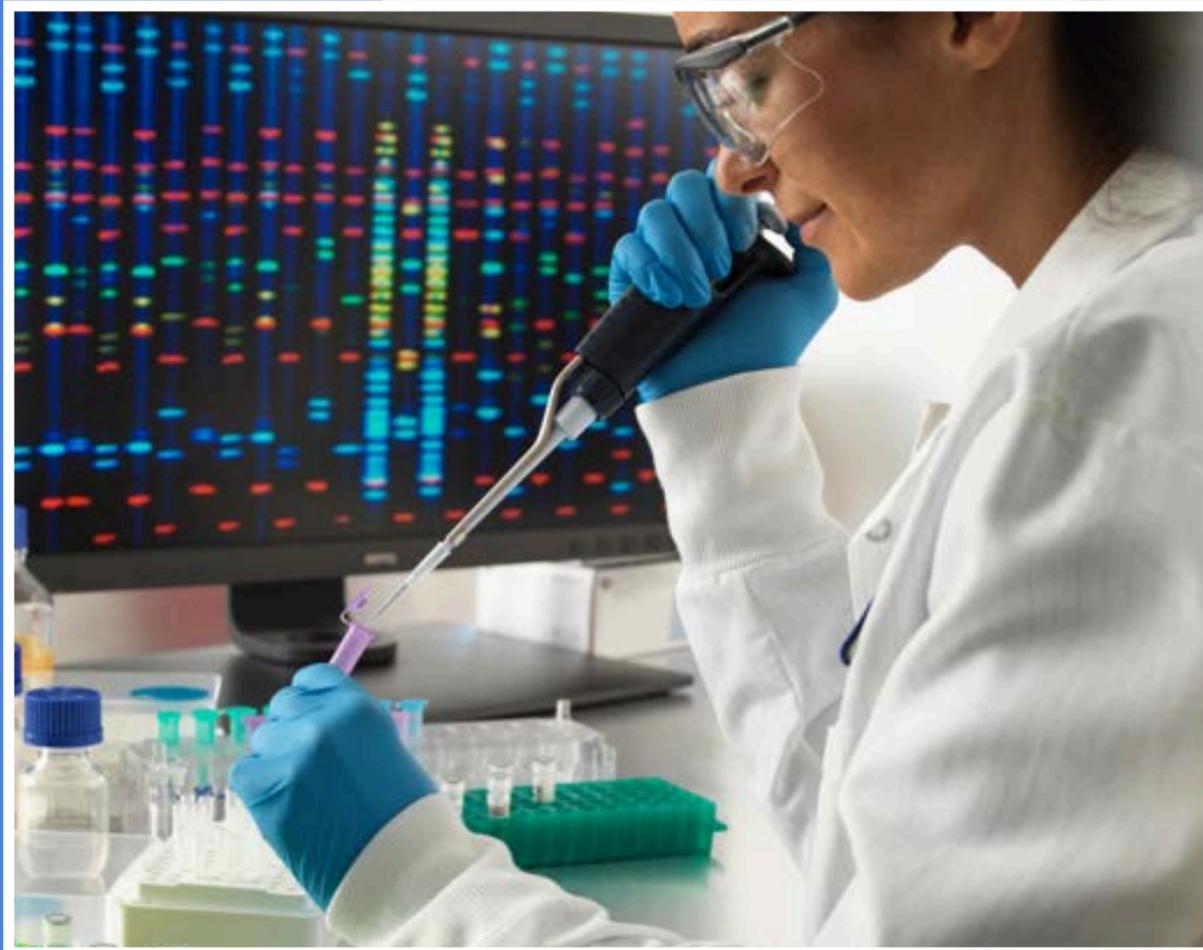


### Share with Your Doctor

With your consent, your doctor receives a clinical summary and next-step guidance.

06

## YOUR RESULTS



1

Your risk is categorized as low, intermediate, or high

2

Personalized report for you and your physician

3

Lifestyle, tests and medications

4

Secure, encrypted portal access

5

Complimentary virtual counseling

*Understanding Your Genetic Risk Level*

**KNOWING YOUR  
GENETIC RISK GIVES  
YOU MORE TIME, MORE  
CLARITY, AND MORE  
CHOICES**



**Low Risk**

Maintain healthy lifestyle;  
routine screening



**Intermediate Risk**

Adopt risk-reducing habits;  
consider clinical follow-up



**High Risk**

Begin preventive plan; consult  
specialist for tailored interventions

## VIRTUAL GENETIC COUNSELING: WHAT TO EXPECT



A 20-minute session via video  
(English or Arabic)



A trained counselor explains your PRS  
results clearly



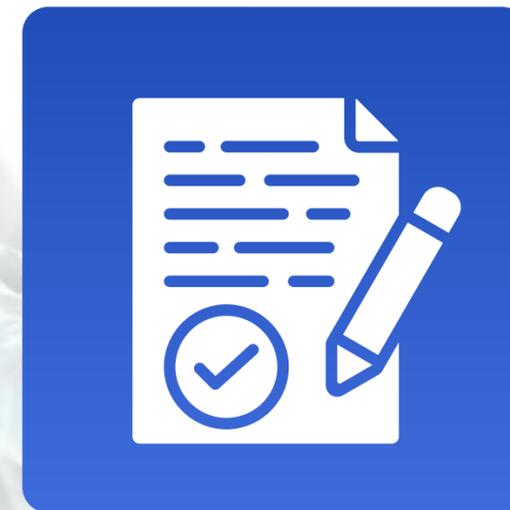
You'll get guidance on lifestyle, family  
implications, and medical next steps

## FOLLOW-UP: COORDINATED WITH YOUR DOCTOR



# DATA PRIVACY AND SECURITY

**Your data is protected  
and secure**



**Never shared  
without your explicit  
consent**

**Testing conducted  
in CAP-accredited  
labs**



**Stored in HIPAA- and regionally  
compliant systems**

## PRICING & CONTACT



### **Test Price:**

Please contact us or your local distributor for pricing and logistics.

### **How can I order the test?**

- [Email Us: [info@avigena.com](mailto:info@avigena.com)]
- [Visit our website: [avigena.com](http://avigena.com)]



## LIMITATIONS OF POLYGENIC SCORE

A polygenic score is neither deterministic nor diagnostic. Some individuals with a high polygenic score may never develop the disease, while others with a low polygenic score may. It is important to know that:



It is not a diagnostic test.



Risk is influenced by lifestyle, clinical, and family factors.



Risk estimates may vary depending on your ancestry. This test is optimized for individuals of Middle Eastern background.



Rare single-gene conditions, such as FH, are not included.



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**Proven Science:**

Our test uses Avigena's trusted, research-based model, clinically validated for accurate heart disease risk prediction.



**Easy-to-Use Reports:**

Clear and practical reports help you make informed decisions and guide your patients with confidence.



**Support for Healthcare:**

We offer training, tools, and expert support to help you use genetic risk in everyday care.

**WHY CHOOSE  
AVIGENA'S  
CAD-PRS TEST?**

## **GENETICS IS A GUIDE, NOT A DIAGNOSIS**

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**PRS is a tool to support  
—not replace—your  
physician's judgment.**

**Think of it like a weather  
forecast:  
it informs you of risk, but you  
still control the outcome.**

# PHYSICIAN-LED CARE



## Referring Physician

Final decisions on patient care rest with the referring physician.



## Risk Reports

Avigena provides evidence-based risk reports and guidance to support decision making.



## Personalized Care

We work in partnership with clinicians to deliver personalized, preventive care.



## Genomic Tools

Genomic tools enhance - not replace - the physician's expertise.

## CLINICAL WORKFLOW: CAD-PRS INTEGRATION



PRS enables prediction and prevention

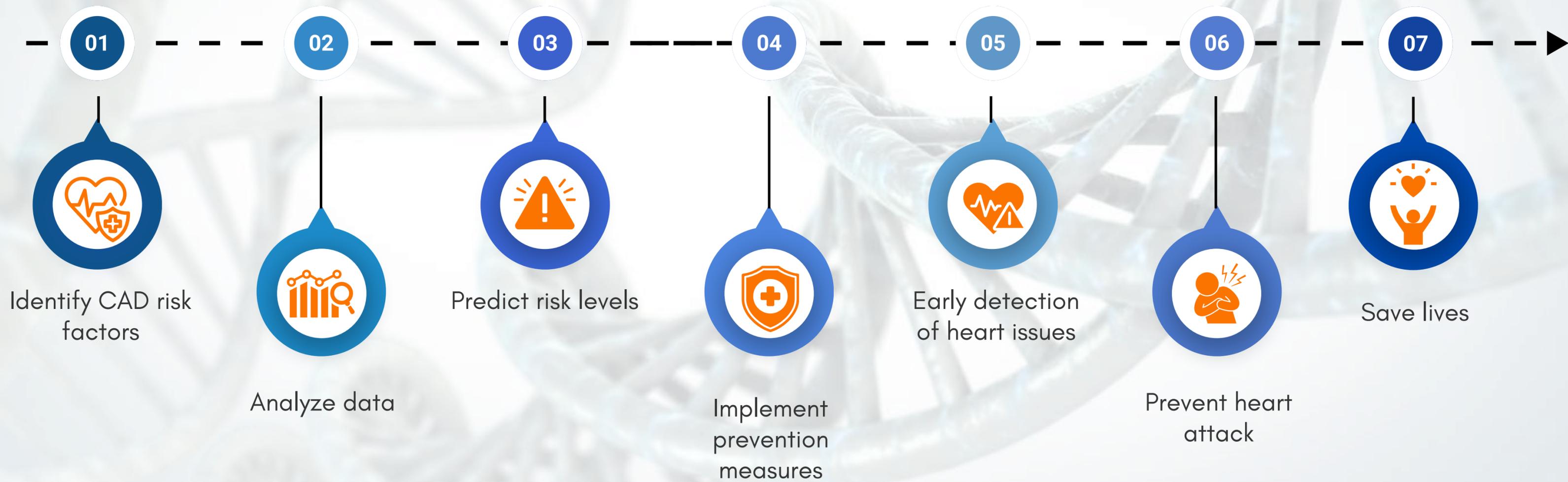


PRS results inform lifestyle, prevention, and referral pathways.



This proactive model helps prevent heart attacks and save lives.

# PRS SAVES LIVES



## HOW TO GET TESTED- CONTACT US

Ask your doctor today or Contact us directly for guidance.



Avigena Boston: 6 Liberty Square, PMB 6129,  
Boston, MA 02109

Avigena Abu Dhabi: Sky Tower, Shams #2201,  
Al Reem Island

Website: [www.avigena.com](http://www.avigena.com)  
Email: [info@avigena.com](mailto:info@avigena.com)



# **FREQUENTLY ASKED QUESTIONS SECTIONS**

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## **How might these results affect my medical care?**

These results can help your doctor decide if you need extra check-ups, tests, or treatments to lower your risk of heart disease. Be sure to discuss them with your doctor

## **What does this mean if I already have the disease?**

If you already have coronary disease, this test can help explain the genetic factors that contributed and guide care for you and your family.

## **What is Genomic Integrated Risk Score (GIRS)?**

Genomic Integrated Risk Score (GIRS) combines your genetic risk score with clinical and lifestyle data to provide a more complete risk estimate.



## **Why do I need to consult with a healthcare provider and a Genetic Counselor?**

These results can help your doctor decide if you need extra check-ups, tests, or treatments to lower your risk of heart disease. Be sure to discuss them with your doctor.

## **What does this mean if I already have the disease?**

Your healthcare provider will interpret your results within the context of your complete medical history. A counselor will help you understand the potential benefits and limitations of the test in your specific context.

## **How long does testing take?**

Testing takes up to 2 months, but average turnaround time is around 4-6 weeks.



## DISCLAIMER AND PRS?

- ✓ The PRS test is not a diagnostic test and should not be used as the sole basis for any medical decision.
- ✓ The genetic test used to generate your PRS was developed by Novo Genomics and Allelica, Inc. While it has been carefully validated for accuracy, it is not FDA-approved.
- ✓ The PRS does not assess all possible genetic causes (e.g., rare mutations).
- ✓ Results may vary depending on ethnic background; this PRS test was optimized for Middle Eastern populations.
- ✓ The PRS test is intended to provide additional health insights and should be interpreted in conjunction with other clinical information provided by your healthcare provider.

## WHAT IS A RELATIVE RISK IN A POLYGENIC SCORE?



- ✓ Your polygenic risk score (PRS) is based on your DNA and helps estimate your likelihood of developing a specific disease compared to the general population.
- ✓ **The relative risk tells you how your genetic risk compares to the average:**
  - A person is considered high genetic risk if their polygenic score puts them at more than twice the average risk for CAD.
  - PRS above the 83rd percentile is considered high because it confers a greater than 2-fold increased risk compared to the rest of the population.

# HOW IS YOUR SCORE CALCULATED?

Step 1:

## **Sample Collection/Variant Selection**

The test uses saliva or blood sample. Variants linked to disease risk are chosen from large genomic studies.

Step 2:

## **Risk Score Calculation**

Each genetic variant (single-nucleotide polymorphism - SNP) associated with disease risk is weighted by its effect size. The sum of these weighted variants forms the individual's polygenic risk score (PRS).

Step 3:

## **Ancestry Adjustment**

To improve accuracy, the PRS is refined using ancestry data and PCA to ensure it reflects true disease risk, not ancestry-related genetic differences.

Step 4:

## **Risk Estimation/Score Interpretation**

Risk by age is calculated using your PRS and ancestry data. Your score is compared to others from similar backgrounds.

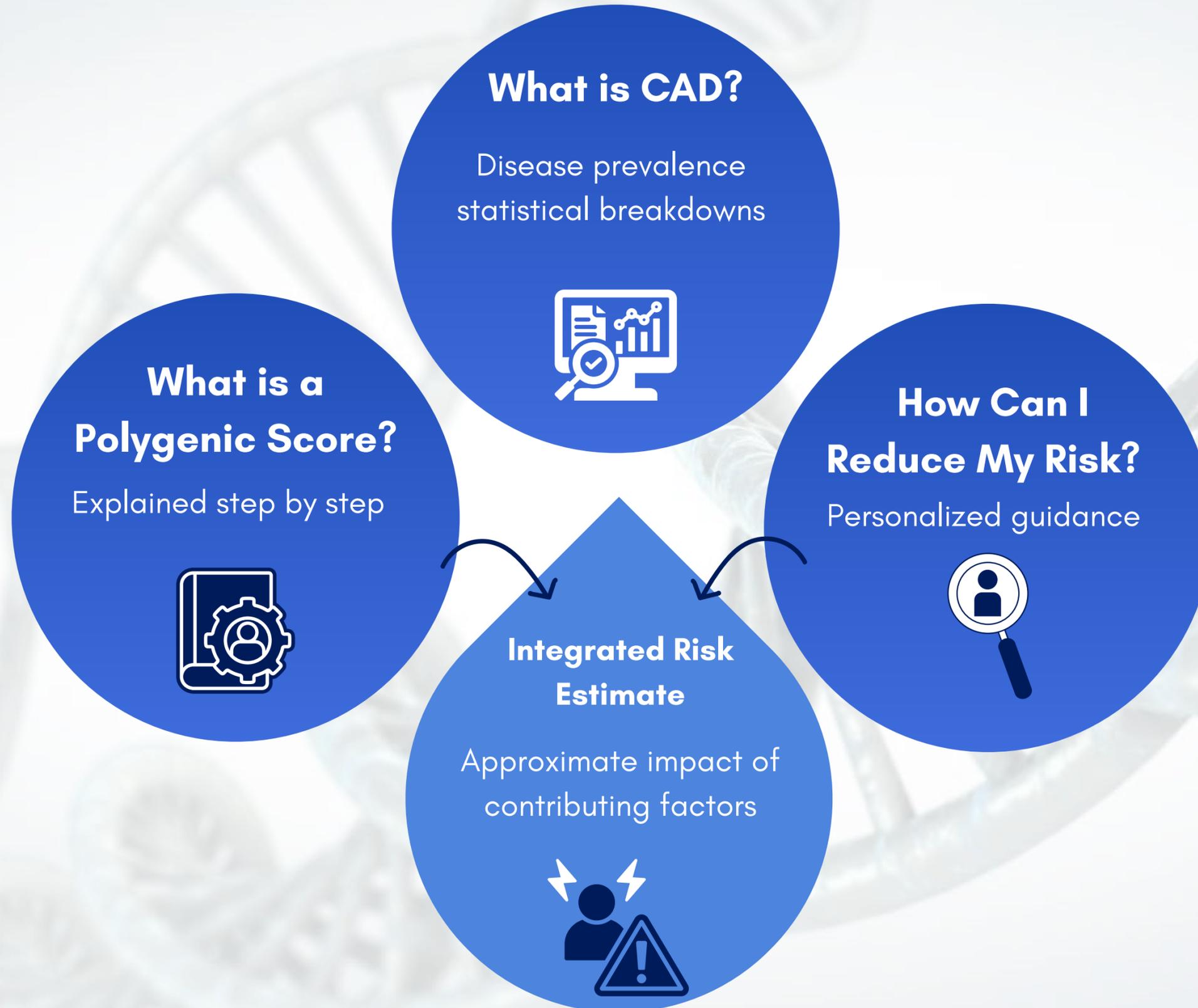
Step 5:

## **Clinical Relevance**

Supports risk assessment for conditions like CAD, diabetes, and cancer.

## **WANT TO KNOW MORE ABOUT PRS?**

You can visit: <https://polygenicscores.org/explained/>



The background of the entire page is a photograph of four medical professionals (two men and two women) in white lab coats, standing in a brightly lit hospital hallway. They are all smiling and looking towards the camera. The image is slightly faded to allow the text to be the primary focus.

## **AVIGENA'S SCIENTIFIC EXPERTISE IN HIGH-RISK PRS RESEARCH**

Avigena and its expert team will keep you and your doctor informed about new treatment options and clinical trial opportunities if you're at very high risk for Coronary Artery Disease



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