Health > Health Predisposition



Coronary Artery Disease

POWERED BY 23ANDME RESEARCH

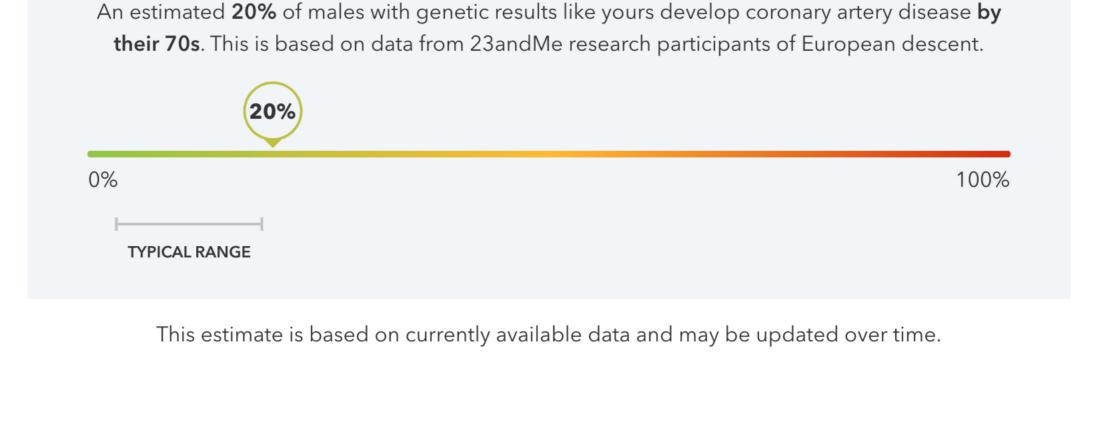
buildup of a waxy, cholesterol-containing substance called plaque inside the coronary arteries, which are the major blood vessels that supply the heart with oxygen-rich blood. When plaque builds up in the coronary arteries, the vessels narrow and blood flow to the heart is decreased.

Coronary artery disease, sometimes called CAD, is a type of heart disease that is typically caused by the



associated with an increased likelihood of developing coronary artery disease.

Jamie, your genetic result is



agree that healthy lifestyle habits can help lower the chances of developing this condition.

Ways to take action

 Maintain a healthy weight • Eat a heart-healthy diet

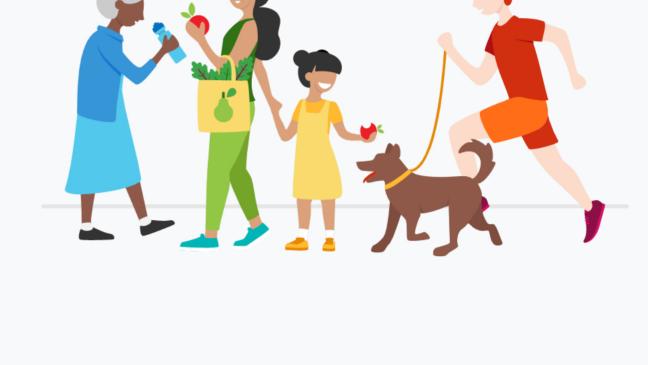
Your overall likelihood of developing coronary artery disease

also depends on other factors, including lifestyle. Experts

- Avoid smoking
- Limit alcohol consumption

• Exercise regularly

- Start taking action



In people with coronary artery disease, plaque buildup in the coronary arteries causes the vessels to narrow and decreases blood flow to the heart. At first, this may not cause

About coronary artery disease

any symptoms. However, as more plaque builds up over time, people can experience chest pain (called angina),

How can coronary artery disease impact your health?

shortness of breath, and fatigue. The heart can also become weak and unable to pump blood effectively to the rest of the body (called heart failure). If a piece of plaque inside an artery breaks off and a blood clot forms, blood flow to the heart may be blocked, causing a heart attack. If blood flow to the brain is blocked, this can cause a stroke.

the American Heart Association uses non-genetic factors, and is for individuals who are at least 40 years old. Other factors that can impact your chances of

Prevention, up to 16% of people in the U.S. are expected to

including things like heart attack and stroke. This tool from

Estimate your risk for complications of heart disease,

genetics, weight, and lifestyle, some factors that can increase a person's chances of developing coronary artery disease include:

• Age (this condition becomes more common as people

develop coronary artery disease by their 70s. Besides

According to the Centers for Disease Control and

developing coronary artery disease

young age)

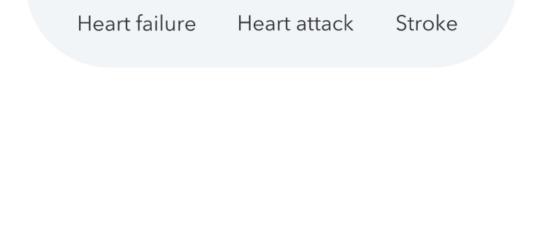
get older) • Sex (more males than females are diagnosed with coronary artery disease, but females are likely underdiagnosed)

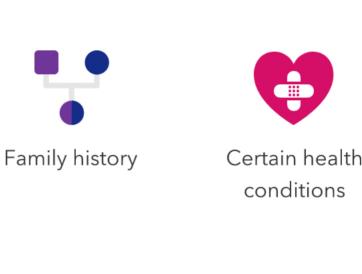
• Family history (especially if a parent had a heart attack at a

· Certain health conditions (including high blood pressure,

high cholesterol, and type 2 diabetes)

Keep in mind





Age

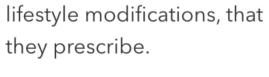
This report is based on a The likelihood of developing If you have already been This report does not account diagnosed with coronary coronary artery disease also for every possible genetic genetic model created using artery disease by a healthcare depends on other factors, variant that could affect your data from 23andMe research likelihood of developing professional, it is important to including age, sex, family participants and has not been

This report does not diagnose coronary artery disease. It also does not provide information about or

diagnose other forms of heart disease. Consult with a healthcare professional if you are concerned about

your likelihood of developing coronary artery disease, have a personal or family history of coronary artery

disease, or before making any major lifestyle changes.



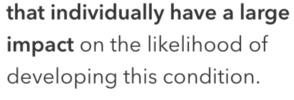
continue any treatment plans,

including medications and

How we got your result ^ Methods



history, and lifestyle.



coronary artery disease, and it

does not include rare variants

This report is based on a statistical model that takes into account your genetic results at more than 2,400 genetic markers, along with the ethnicity and sex you reported in your account settings, to estimate the likelihood of developing coronary artery disease. We used data from 23andMe research participants as well as data reported in the scientific literature to calculate this estimate. Results and estimates may be updated over time as the model or scientific understanding about this condition improves. Note that this report does



clinically validated.

familial hypercholesterolemia (FH). About the result

ethnicity. These results are based on thousands of genetic markers, and random test error at one or more of these markers can lead to a small margin of error in your estimated likelihood of developing coronary artery disease. For people whose estimates are near the boundary between typical and increased likelihood, this margin of error may introduce some uncertainty about whether their estimated likelihood is considered "typical" or "increased". Your genetic result is associated with an increased likelihood. Based on the available genetic markers used to calculate your result, there is a less than 1% chance your genetic likelihood estimate could fall on the other side of the boundary and be in the range that is considered typical. Scientific validity across ethnicities

not include genetic variants that have a large impact on the likelihood of developing coronary artery disease, such as variants linked to

People whose result is associated with odds of developing coronary artery disease that are at least 1.5 times higher than average are

considered to have an increased likelihood. Between 2% and 19% of individuals receive an "increased likelihood" result, depending on

We verified that the model meets our scientific standards for individuals of European, Hispanic/Latino, East/Southeast Asian, South Asian, Sub-Saharan African/African American, and Northern African/Central & Western Asian descent.

population.

Read More:

Circulation. 139(10):e56-e528.

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artery-disease/symptoms-causes/syc-20350613. *\

How we may use ethnicity and sex to customize this result • If you indicated in your account settings that you are of European, Hispanic/Latino, East/Southeast Asian, South Asian, Sub-Saharan African/African American, or Northern African/Central & Western Asian (Middle Eastern) descent, your result is tailored based on data from individuals of that ancestry.

individuals of your ancestry at this time. Data from individuals of European descent is used because the most data is available for this

• Otherwise, your result may be based on data from individuals of European descent because there is not enough data from

- Your Coronary Artery Disease result also takes into account the sex you indicated in your account settings. See our white paper to learn more about the science behind this report.
- Arnett DK et al. (2019). "2019 ACC/AHA Guideline on the Primary Prevention of Cardiovascular Disease: Executive Summary: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines." J Am Coll Cardiol. 74(10):1376-1414. ¹

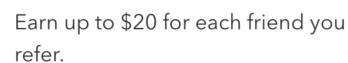
Retrieved May 4, 2020, from https://www.cdc.gov/brfss/brfssprevalence/. Khera AV et al. (2017). "Genetics of coronary artery disease: discovery, biology and clinical translation." Nat Rev Genet. 18(6):331-344.

Centers for Disease Control and Prevention. (2017). "Behavioral Risk Factor Surveillance System (BRFSS) Prevalence & Trends Data."

Benjamin EJ et al. (2019). "Heart Disease and Stroke Statistics-2019 Update: A Report From the American Heart Association."

Lloyd-Jones DM et al. (2004). "Parental cardiovascular disease as a risk factor for cardiovascular disease in middle-aged adults: a prospective study of parents and offspring." JAMA. 291(18):2204-11.

Mayo Clinic. "Coronary artery disease." Retrieved August 1, 2019, from https://www.mayoclinic.org/diseases-conditions/coronary-



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