Health > Health Predisposition

Jamie 🗸

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# **Hashimoto's Disease**

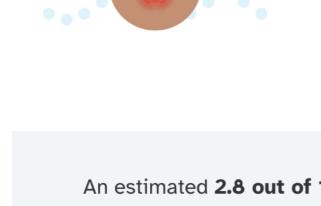
**POWERED BY 23ANDME RESEARCH** 

Hashimoto's disease (or Hashimoto's thyroiditis) is an autoimmune condition in which the immune system

causes damage to the thyroid gland and a decline in thyroid hormone production. This can result in a thyroid hormone deficiency known as hypothyroidism.

Hashimoto's disease by their 50s. This is within what is considered typical, which can

be anywhere from 2.1 to 13 out of 100 people. These values were calculated using data



likelihood of developing Hashimoto's disease. An estimated **2.8 out of 100** people with genetics and other factors like yours develop

Jamie, your genetic result is

associated with a typical

from female 23andMe research participants of European descent. 3 out of 100 have been diagnosed with Hashimoto's disease by their 50s 97 out of 100 have not been diagnosed with Hashimoto's disease by their 50s This estimate is based on currently available data and may be updated over time.

Your overall likelihood of developing Hashimoto's disease

# Maintain healthy levels of iodine in your diet. While it

system and thyroid health.

minerals.

Ways to take action

consuming too many iodine-rich foods, such as seaweeds like kelp or dulse, can increase risk for thyroid problems. Learn more about dietary iodine from the NIH Office of Dietary Supplements'.

is important to have some iodine in your diet,

also depends on other factors, including lifestyle. Experts

Eat a balanced diet with healthy levels of vitamins and

agree that healthy lifestyle habits can promote immune

· Get enough vitamin D by spending time outdoors and eating vitamin D-rich foods like fortified milk or fatty fish. Talk to your doctor if you think your vitamin D levels might be too low. Practice good sleep habits to optimize your sleep. • Exercise regularly.

For people receiving treatment for Hashimoto's disease,

management plan.

of Hashimoto's disease or for help making a

Learn more from the Cleveland Clinic

What is Hashimoto's disease? Hashimoto's disease (or Hashimoto's thyroiditis) is an

autoimmune condition that affects the thyroid. The

front of the trachea. The thyroid produces thyroid

thyroid is a gland in the lower part of the neck, just in

Hashimoto's disease, the immune system causes the

hormone, which regulates many functions in the body like metabolism, body temperature, and heart rate. In

Inflammation may cause the thyroid to noticeably swell, which is called a goiter. How can Hashimoto's disease impact your health? Most symptoms of Hashimoto's disease are due to hypothyroidism, which over time can cause symptoms to progress or even change as the thyroid produces less and less thyroid hormone. In addition, symptoms can vary widely from person to person. Some common

pregnancy complications. If you have concerns about Hashimoto's disease, talk to a healthcare professional.

Other factors that can impact your chances of

hypothyroidism in the United States. It is estimated that

up to 5% of the U.S. population has hypothyroidism.

Besides genetics, some factors that can increase a

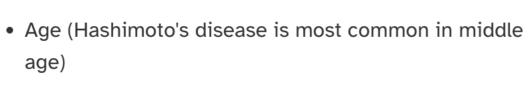
person's chances of developing Hashimoto's disease

• Sex (females are more likely to be diagnosed with

developing Hashimoto's disease

Hashimoto's disease than males)

Hashimoto's disease is the leading cause of



Certain health conditions (including celiac disease,

type 1 diabetes, rheumatoid arthritis, and Addison's

disease by a healthcare

professional, it is important

to continue any treatment

plans that they prescribe,

including medications and

How we got your result ^

Methods

**About the result** 

lifestyle modifications.

disease)

include:

- Pregnancy (Hashimoto's disease may begin during or after pregnancy) Radiation exposure



Healthy thyroid

Trachea

Enlarged

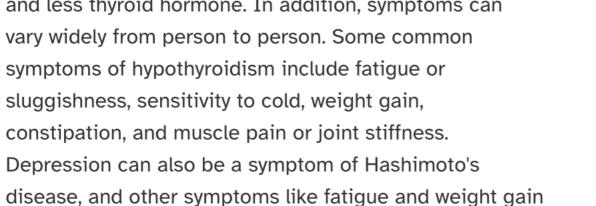
thyroid (goiter)

Inflammation

Sensitivity to

cold

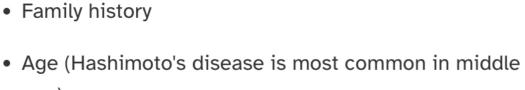
### thyroid to become inflamed and damaged, and over time to produce less thyroid hormone (called hypothyroidism).



part of some Hashimoto's disease management plans. Hashimoto's disease is treated with thyroid hormone supplementation, which can help restore thyroid hormone levels, alleviate symptoms, and reduce the risk of developing health problems associated with hypothyroidism. However, if left untreated, hypothyroidism from Hashimoto's disease can be associated with several other conditions like heart disease, sexual and reproductive dysfunction, and

may be frustrating and impact one's quality of life.

Counseling and/or support groups can be an important

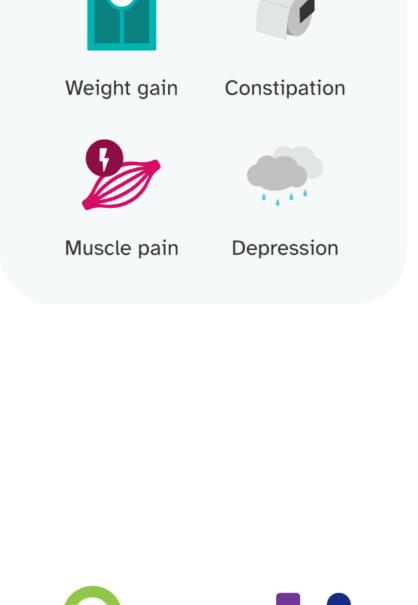


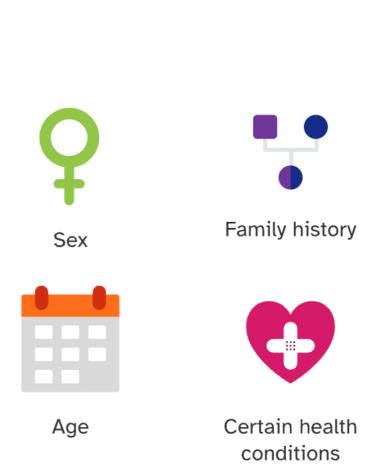
- The likelihood of developing If you have already been diagnosed with Hashimoto's Hashimoto's disease also

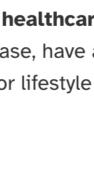
depends on other factors,

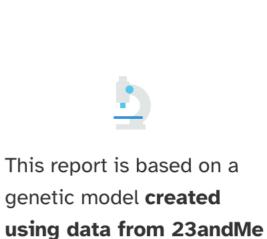
including lifestyle, age, and

family history.









research participants. It

validated and should not be

has not been clinically

used to make medical

decisions.

Radiation exposure

# condition.

Keep in mind

This report is based on a statistical model that takes into account your genetic results at 11,786 genetic markers, along with the ethnicity and sex you reported in your account settings, to estimate the likelihood of developing Hashimoto's disease. We used data from 23andMe research participants 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 not include rare genetic variants that have a large impact on the likelihood of developing Hashimoto's disease. People whose result is associated with odds of developing Hashimoto's disease that are at least 1.5 times higher than average

# 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.

Scientific validity across ethnicities

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. • If you indicated in your account settings that you are predominantly of both Hispanic/Latino and another ancestry, your result

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 increased.

based on data from individuals of European descent because the most data is available for this population. Your Hashimoto's Disease result also takes into account the birth sex you indicated in your account settings.

If there is not enough data from individuals of your ethnicity or combination of ethnicities at this time, your result may be

- **Read More:** Akamizu T et al. (2000). "Hashimoto's Thyroiditis." [Accessed Aug 5, 2022].
- Association of Clinical Endocrinologists and the American Thyroid Association." Thyroid. 22(12):1200-35. Hu S et al. (2017). "Multiple Nutritional Factors and the Risk of Hashimoto's Thyroiditis." Thyroid. 27(5):597-610."

MedlinePlus. "Hashimoto thyroiditis." Retrieved August 5, 2022, from https://medlineplus.gov/genetics/condition/hashimoto-thyroiditis/. Mincer DL et al. (2022). "Hashimoto Thyroiditis." [Accessed Aug 5, 2022].

Wiersinga WM. (2016). "Clinical Relevance of Environmental Factors in the Pathogenesis of Autoimmune Thyroid Disease." Endocrinol Metab (Seoul). 31(2):213-22.

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Hashimoto's

disease

# This report does not diagnose Hashimoto's disease. Consult with a healthcare professional if you

This report does not account for every possible genetic variant that could

affect your likelihood of

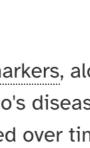
developing Hashimoto's

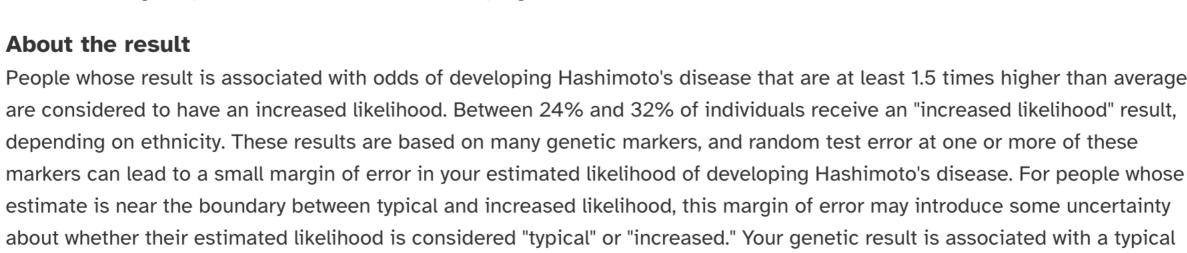
disease, and it does not

include rare variants that

have a large impact on the

likelihood of developing this





# • If you indicated in your account settings that you are predominantly of both Sub-Saharan African/African American and European descent, your result will be based on data from individuals of Sub-Saharan African/African American descent.

See our white paper to learn more about the science behind this report.

will be based on data from individuals of Hispanic/Latino descent.

Garber JR et al. (2012). "Clinical practice guidelines for hypothyroidism in adults: cosponsored by the American

Kim D. (2017). "The Role of Vitamin D in Thyroid Diseases." Int J Mol Sci. 18(9)." Mayo Clinic. "Hashimoto's Disease." Retrieved August 5, 2022, from https://www.mayoclinic.org/diseasesconditions/hashimotos-disease/symptoms-causes/syc-20351855.

National Institute for Diabetes and Digestive and Kidney Diseases. "Hashimoto's Disease." Retrieved August 5, 2022, from https://www.niddk.nih.gov/health-information/endocrine-diseases/hashimotos-disease.

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**RESEARCH** 

Fatigue

Pregnancy

