Health > Health Predisposition

Jamie, your genetic result is

likelihood of developing lupus.

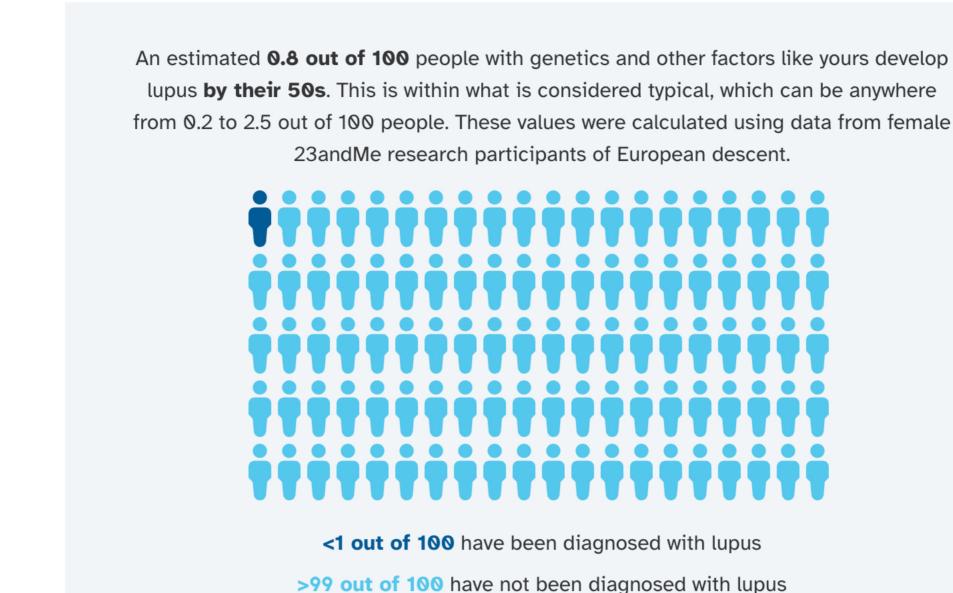
associated with a typical

1 Share

Lupus **POWERED BY 23ANDME RESEARCH**

Lupus is a group of autoimmune conditions that can occur in several forms, ranging from a small rash to severe disease that can affect multiple organs in the body. Symptoms typically come and go throughout life

in flares, but if left untreated, lupus can have serious health consequences.



For those who have been diagnosed with lupus, medication is often the first line of treatment. However, experts agree that healthy lifestyle habits can be an

This estimate is based on currently available data and may be updated over time.

health complications.

meditation.

Prevention

Ways to take action

get help to quit if needed. Be sun smart. UV light can trigger flares, so it's important to wear sunscreen and protective clothing (including a hat and long sleeves) while outside. • Get plenty of rest. Many people with lupus experience fatigue that can be challenging to manage, but

strategies like planning time to rest, tackling important

tasks first, and preparing meals in advance can help.

possible, including secondhand smoke. If you smoke,

important part of reducing the frequency and severity of

lupus flares and lower the chances of developing other

Avoid exposure to cigarette smoke as much as

strengthening exercises can help maintain muscle strength, promote heart health, and preserve bone density.

Explore strategies to reduce stress, like yoga or

Eat a heart-healthy diet that includes lots of fruits,

vegetables, and whole grains.

Stay active. A combination of low-impact aerobic and

family, friends, and counselors can be an important part of managing lupus. If you have concerns about lupus, talk to a healthcare professional.

Learn more from the Centers for Disease Control and

Lupus can be challenging to face alone, so support from

About lupus What is lupus?

Lupus is a group of chronic autoimmune conditions that

skin, lungs, kidneys, and heart. There are several types of

lupus, but the most common type - called systemic lupus

can affect many parts of the body, such as the joints,

erythematosus (SLE) - can range from a small rash to severe disease that can affect multiple organs in the body. Symptoms and disease severity can vary widely

from person to person and change over time, which can

make recognizing and diagnosing lupus a challenge.

on the face. Although the cause of lupus is not fully

understood, scientists think that the immune system

and environmental factors, resulting in damage to the

What can trigger lupus flares?

becomes overly active due to a combination of genetics

For people who have lupus, symptoms can come and go

throughout life, but certain factors (called triggers) can

increase the chances of flares. Some common triggers



Some common symptoms include fatigue, muscle and joint pain, fever, skin lesions, and a butterfly-shaped rash

· Certain medications (including certain antibiotics like sulfa-drugs or tetracycline) Illness or infection

Triggers and warning signs of a flare can vary from person to person. Learning personal triggers and warning

Emotional or physical stress

• Sun or UV light exposure

signs can help to get treatment quickly and prevent severe flares. For people with lupus, it's important to talk to a healthcare professional for help creating a

body.

include:

Injury

Exhaustion

management plan.

who treats muscle-, joint-, and autoimmune-related conditions) or a dermatologist. In addition, individuals with lupus may experience mental health conditions like anxiety and depression. Counseling

lupus can help manage these health impacts, in addition

about lupus, talk to a healthcare professional. You may be

to reducing symptoms and flares. If you have concerns

referred to a specialist like a rheumatologist (a doctor

diagnosed prior to menopause.) Family history

Currently taking certain medications (including some

If you have already been

diagnosed with lupus by a

healthcare professional, it is

important to continue any

How we got your result ^

Methods

About the result

males)

management plan that is history. recommended.

The likelihood of developing lupus also depends on other factors, including lifestyle, age, and family

> impact on the likelihood of developing this condition.

Sex

This report does not This report is based on a genetic model created account for every possible genetic variant that could using data from 23andMe affect your likelihood of research participants. It developing lupus and it has not been clinically does not include rare validated and should not be variants that have a large used to make medical decisions.

Lupus can increase the risk for many other health conditions, such as infections, kidney disease, heart disease, and pregnancy complications. But treatment for

How can lupus impact your health?

and/or support groups can be an important part of some lupus management plans. Other factors that can impact your chances of developing lupus Besides genetics, some factors that can increase a person's chances of developing lupus include: • Sex assigned at birth (about 9 out of 10 people with

lupus are female, but lupus may be more severe in

Ethnicity (lupus tends to be more common and severe

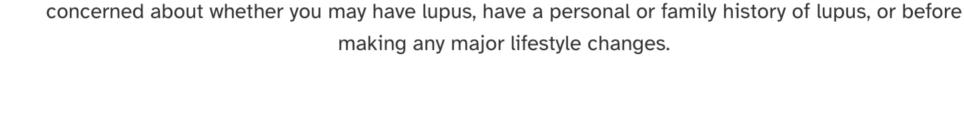
among people of African, Asian, Hispanic/Latino,

Indigenous American, and Pacific Island descent)

• Age (lupus is generally more common as people get

older. For people who menstruate, lupus is often

used to treat heart disease, thyroid disease, high blood pressure, and mental health conditions)



People whose result is associated with odds of developing lupus that are at least 1.5 times higher than average are considered to have an increased likelihood. Between 4% and 20% of individuals receive an "increased likelihood" result, depending on ethnicity. These results are based on many 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 lupus. For people whose estimates are near the boundary

African/Central & Western Asian (Middle Eastern), South Asian, or Sub-Saharan African/African American 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

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

Barber MRW et al. (2021). "Global epidemiology of systemic lupus erythematosus." Nat Rev Rheumatol. 17(9):515-532.

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

How we may use ethnicity and birth sex to customize this result

https://www.cdc.gov/lupus/basics/managing.htm. Chen J et al. (2022). "Life factors acting on systemic lupus erythematosus." Front Immunol. 13:986239."

Centers for Disease Control and Prevention. "Managing Lupus." Retrieved March 6, 2023, from

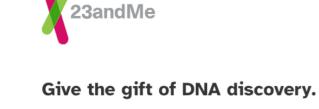
Fava A et al. (2019). "Systemic lupus erythematosus: Diagnosis and clinical management." J Autoimmun. 96:1-13.

Justiz Vaillant AA et al. (2023). "Systemic Lupus Erythematosus." [Accessed Mar 6, 2023]. Lupus Foundation of America. "National Resource Center on Lupus." Retrieved March 6, 2023, from https://www.lupus.org/resources.

Mayo Clinic. "Lupus." Retrieved March 6, 2023, from https://www.mayoclinic.org/diseases-

conditions/lupus/symptoms-causes/syc-20365789. Pons-Estel GJ et al. (2010). "Understanding the epidemiology and progression of systemic lupus erythematosus." Semin Arthritis Rheum. 39(4):257-68.

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Organs affected by lupus can include: Lungs Kidneys Skin Muscles/ joints

Some common

triggers include:

Certain

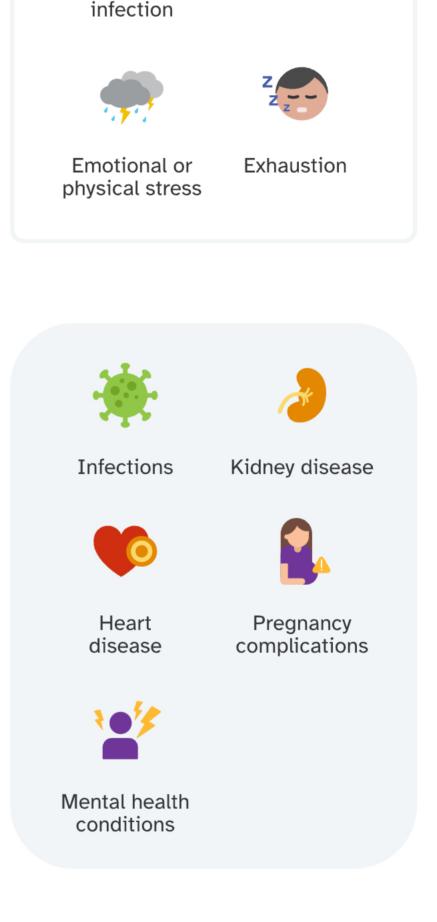
medications

Injury

Sun or UV

light exposure

Illness or



Family history Age Certain medications This report does not diagnose lupus. Consult with a healthcare professional if you are

Ethnicity

This report is based on a statistical model that takes into account your genetic results at more than 1,900 markers, along with

the ethnicity and birth sex you reported in your account settings, to estimate the likelihood of developing any type of lupus. We

Keep in mind

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 a typical 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. Scientific validity across ethnicities We verified that the model meets our scientific standards for individuals of East/Southeast Asian, European, Hispanic/Latino,

Northern African/Central & Western Asian (Middle Eastern), South Asian, and Sub-Saharan African/African American descent.

• If you indicated in your account settings that you are of East/Southeast Asian, European, Hispanic/Latino, Northern

based on data from individuals of European descent because the most data is available for this population.

Your Lupus 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:

Fanouriakis A et al. (2021). "Update on the diagnosis and management of systemic lupus erythematosus." Ann Rheum Dis. 80(1):14-25.

Stojan G et al. (2018). "Epidemiology of systemic lupus erythematosus: an update." Curr Opin Rheumatol. 30(2):144-

ANCESTRY HEALTH & TRAITS RESEARCH

Family Tree

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