

Genetic Carrier Screening

Planning a family? Screening can help.

Carrier screening is recommended for all couples who are planning a family, as anyone can be a carrier for a genetic condition. Some conditions, like Tay-Sachs disease, are more common in Jewish families. Even without a family history, there is still a risk. Screening helps you understand your risks, explore family-building options, and plan ahead with confidence.



What is carrier screening?

Carrier screening is a simple genetic test that analyzes your DNA to determine whether you are a carrier for certain genetic conditions.

- A carrier is typically a healthy individual who shows no signs or symptoms of the condition.
- Even with no personal or family history of the condition, you can still be a carrier.
- Depending on your and your spouse's results, there may be an increased chance your child will inherit a genetic condition.

When and how should we do it?

- Carrier screening is ideally performed before pregnancy to provide the most options.
- Both partners can be tested simultaneously to make the process faster.
- Testing is simple and convenient – it is performed with a blood sample or cheek swab.

How do we get screened? What kind of test should we ask for?

- Ask your OB/GYN doctor for carrier screening. Insurance often covers the cost, particularly for those planning a pregnancy.
- Historically, screening for Jewish couples was limited to a few specific conditions, like Tay-Sachs and Gaucher disease.
- Experts now recommend asking for an **expanded carrier screening panel** for a more comprehensive analysis.
- Note: Direct-to-consumer genetic tests like 23andMe and AncestryDNA are not substitutes for this medical-grade screening.

What do our results mean?

- A **positive** carrier result is common, as most individuals carry at least one genetic variant.
- This result alone does not mean there is a high risk for your children.
- The risk is typically elevated only if **both** partners are carriers for the same condition, though there are exceptions.
- Your health-care provider will use the results to determine whether you are a low-risk (little chance of having a child with the condition) or high-risk (an increased-chance) couple.

What happens if we are a 'high-risk' couple?

A high-risk result indicates an increased chance (typically 25% or 50%) that your child could inherit a genetic condition. A genetic counselor can help you understand these results and explore your options:

 **Conceive Naturally** – With the option to test the pregnancy early

 **IVF with PGT-M** – Eggs are retrieved and fertilized to create embryos and test them for the genetic condition

 **Conceive with Donor Eggs or Sperm**

 **Adoption**

Carrier screening reduces the risks but does not test for everything

If you are concerned about a specific condition, ask your doctor for a referral to a genetic counselor, who can determine whether additional testing is needed. Screening tests do not cover BRCA1/2 and Lynch, which are more common in Jewish populations.

Additional Resources

*May you be blessed in building a healthy and joyful family;
l'dor vador*



[JewishGenetics](#) - Watch a video about the basics of screening



[JScreen](#) - Order screening (includes common Jewish conditions; doctors may offer larger panels)



[NSGC](#) - Find a certified genetic counselor to discuss your results