Quick Facts

- Results are available in 2-3 weeks
- If you are found to be a carrier of a condition, your relatives may also be carriers of the same condition
- Complimentary post-test counseling is available
- This test is covered by most insurance plans
- The Genetic Information Nondiscrimination Act (GINA) protects individuals from discrimination based on genetic testing results and genetic information

Benefits of Carrier Screening

Provides information to make informed decisions regarding:

- Reproductive planning
- Prenatal testing options
- Preparation for the birth of a child with a genetic disorder
- Healthcare options that are most appropriate for you and your family

Inherited Diseases Covered by ASPIRA GENETIX Screening

Beacon Carrier screening test includes:

- Cystic Fibrosis
- Fragile X Syndrome
- Sickle Cell Anemia
- Spinal Muscular Atrophy
- Tay-Sachs
- Thalassemia (Alpha & Beta)
- Canavan Disease
- Bloom Syndrome
- Wilson Disease
- Over 320 hereditary conditions

Payment Options

ASPIRA LABS® offers payment options to make our testing both affordable and accessible. We offer financial discounts and/or payment plans for costs associated with testing provided by ASPIRA LABS®.

If testing is not covered by your insurance, you will receive a bill for $395. **Call ASPIRA LABS® directly to discuss your options at 866.927.7472 or pbenefits@vermillion.com**

ASPIRA LABS®

offers Pre and Post Test Genetic Counseling

Personalized Genetic expertise for your patients

PRE-TEST CONSULTATION

Talk with a genetic expert by phone or video once your test is ordered. We review personal and family health history, answer any questions you may have, and determine if you meet eligibility for test authorization.

RESULTS CONSULTATION

Review test results with a genetic counselor or medical geneticist. During this phone or video session, you are provided an opportunity to discuss the results of the test and their implications.

genomemedical.com/programs/vermillion/

ASPIRA WOMEN'S HEALTH™

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ASPIRA GENETIX Carrier Screening

Information for Patients

ASPIRA GENETIX BY ASPIRA LABS

Know Your Risk

Beacon Carrier Screening is designed to **identify a potential reproductive risk for a current or future pregnancy.** Every person is a carrier for a number of genetic changes that could cause disease in their child. Typically, carriers of a genetic condition are healthy and are not aware of their risk. If their partner is also a carrier for the same condition, they are at an increased risk of having a child affected with a severe genetic condition.

This conditions include:

- Neuromuscular disorders
- Severe blood disorders
- Intellectual disabilities
- Respiratory disorders
- Metabolic conditions

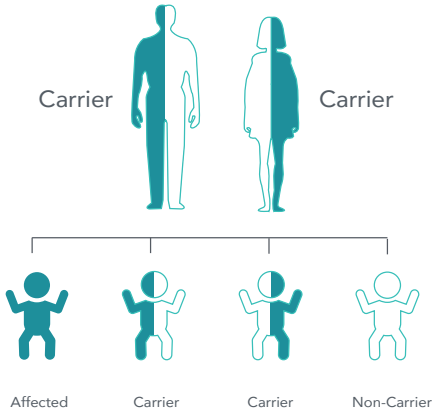
The American College of Obstetricians and Gynecologists (ACOG) recommends carrier screening for any woman who is pregnant or planning to become pregnant. If a woman is found to be a carrier for an autosomal recessive condition, testing for her partner is recommended to determine their child's risk.

There are two types of conditions that are screened by this test: **Autosomal recessive and X-linked.**

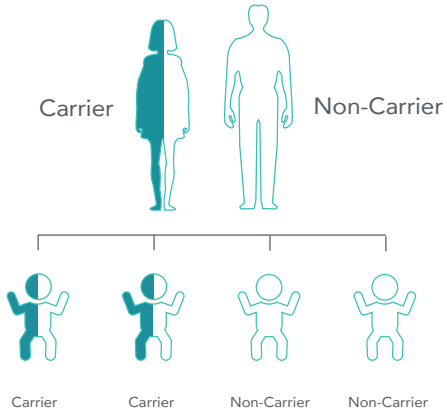
Most people are not aware of their carrier status because they do not have symptoms or a family history of disease.

Autosomal Recessive Conditions

For most genes we have two copies — one we inherit from our fathers and one we inherit from our mothers. Autosomal recessive conditions will only manifest if **both copies of the gene are affected.**



If both parents carry a disease-causing mutation in the same same gene, each time they are pregnant there is a 1 in 4 (25%) chance to have an affected child.

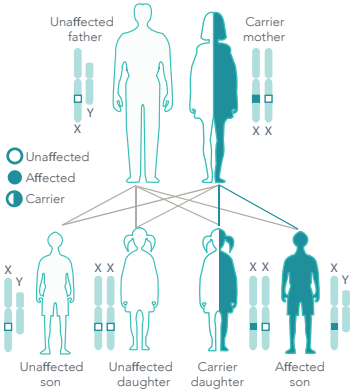


If only one parent carries a disease-causing variant but the other parent does not, their children will not be affected. The children have a 50% chance of being a carrier or a non-carrier.

X-Linked Conditions

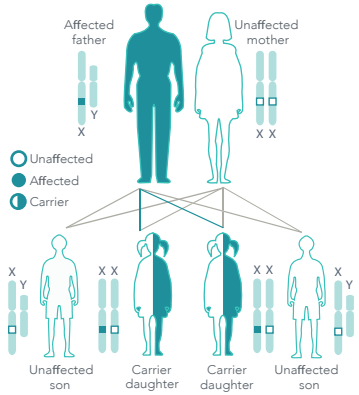
Some disease-causing variants are **located on the X-chromosome.** Females have two X-chromosomes while males have only one. Males that inherit disease-causing variants on the X-chromosome are always affected, while females are often unaffected carriers.

X-Linked Recessive Inheritance, Carrier Mother



If a woman carries a disease-causing variant on the X-chromosome, each of their children has a 1 in 2 (50%) chance to inherit the variant. Sons will be affected and daughters will be carriers.

X-Linked Recessive Inheritance, Affected Father



If a man is affected by an X-linked condition, all his daughters will be carriers and his sons are not at risk (there is no male-to-male transmission in X-linked conditions).