

CENTOGENE
THE RARE DISEASE COMPANY

آزمایشگاه
دنا
D_eNA Laboratory

CentoScreen[®]

THE EARLIEST STEP TO
RESPONSIBLE FAMILY PLANNING

The American College of Obstetricians
and Gynecology recommends offering
carrier screening to all pregnant women
or couples considering pregnancy¹

¹ Committee Opinion No. 690, American College of Obstetricians

What is carrier screening?

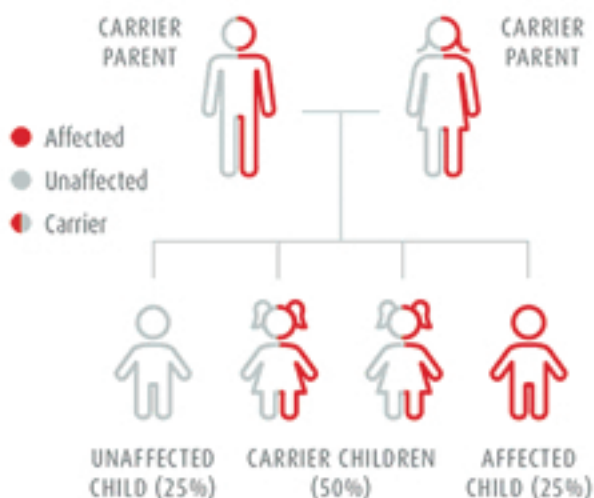
Carrier screening is a genetic test used to determine if a **healthy person is a carrier of a recessive genetic disease**. It provides life-lasting information about an individual's reproductive risk and their chances of having a child with a genetic disease. Knowing their carrier status gives couples more options when planning their pregnancy.



What is a recessive genetic disease?

A recessive genetic disease is caused when a disease-causing change (mutation) is present on both genes of a pair (one gene inherited from the mother and the other from the father).

Most people can be carriers of a mutation without knowing it. Carriers are typically healthy and are not at risk for developing the disease during their lifetime. However, every carrier has a risk of passing on the abnormal copy of the gene to the next generation and the child of a carrier couple could be born with a genetic disorder.



What are the benefits of carrier screening?

Carrier screening can help partners make informed decisions and choices regarding family planning that are consistent with their values. It can allow couples to:

- plan their pregnancy via pre-implantation genetic diagnosis (PGD);
- pursue alternate options such as using a sperm or egg donor or adoption;
- have prenatal diagnosis during pregnancy;
- avail specialist care during pregnancy and delivery if necessary;
- prepare for management and if available, treatment of an affected child.

Additionally, CentoScreen® carrier testing **is necessary only once in your lifetime** for you and your partner. However if you are identified as a carrier and have a new partner, carrier screening is recommended for your new partner.

In an **autosomal recessive disorder**, if both parents are carriers for the same genetic disease, there is a 1/4 (25%) chance of having an affected child in each pregnancy



Who should consider CentoScreen®?

CentoScreen® is appropriate for healthy individuals considering a pregnancy or individuals who are currently pregnant and would like to understand the risk of passing on a genetic condition to their child.

When performed prior to conception this test provides people with a broader range of options.

CentoScreen® at CENTOGENE

CENTOGENE offers CentoScreen®, the most complete genetic screening test with $\geq 99\%$ coverage of 331 genes, providing couples and physicians with the highest confidence in test results.

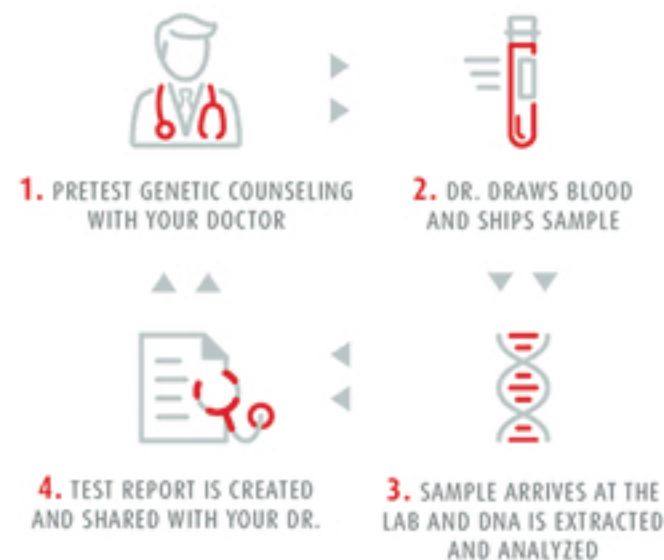
	CENTOGENE products	DESCRIPTION
INITIAL ANALYSIS	CentoScreen® SOLO	Complete Panel Evaluation for 1 Patient*
	CentoScreen® Paired PACK	Complete Panel Evaluation + risk gene analysis partner
	CentoScreen® DUO	Complete Panel Evaluation for 2 Patients
EXTRA	CentoScreen® Paired X-TRA	Risk gene analysis for partner, reflex

*Male partners are not evaluated for X-linked disorders.

CentoScreen® includes a large list of inherited conditions including: fragile X syndrome, spinal muscular atrophy, alpha-thalassemia, and cystic fibrosis. For the complete, up-to-date list of genes and conditions refer to:

▶ ▶ www.centogene.com/carrierscreening ◀ ◀

CENTOGENE diagnostic process



What are my options if the results are positive?

If you and your partner are identified as carriers for a genetic disease it is important to know that you have many options. If needed, further prenatal testing for the particular genetic condition can be performed at CENTOGENE in the shortest turnaround time, allowing you enough time to plan further steps, with your physician and genetic counselor.

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