

CGT

Carrier Genetic
Test

by **Igenomix**[®]

A simple DNA test
prior to pregnancy
to prevent genetic
disorders in the baby

**The most advanced way
to plan your family**

Igenomix[®]
WITH SCIENCE ON YOUR SIDE

At Igenomix we care about the health of your future baby

Every year many parents are caught off guard by the birth of a baby with some form of genetic disease.

Igenomix has developed an advanced carrier genetic test, prior to pregnancy, that can reveal if a couple is at risk of having a baby with one of these serious illnesses. If the results of the test come back positive, the necessary steps can be taken to favor the birth of a healthy baby.

What are genes?

Each one of our cells contains genetic information, or DNA, organized into basic units, genes. Those that don't function correctly are the ones responsible for genetic disorders.

Anyone can unknowingly carry one or more mutations.

The CGT test allows us to know which genes are altered in each person.

Why do a CGT test?

Generally, parents only realize they are carriers of serious genetic disorders after an affected child is born. Genetic disorders can't be cured, but they can be prevented.

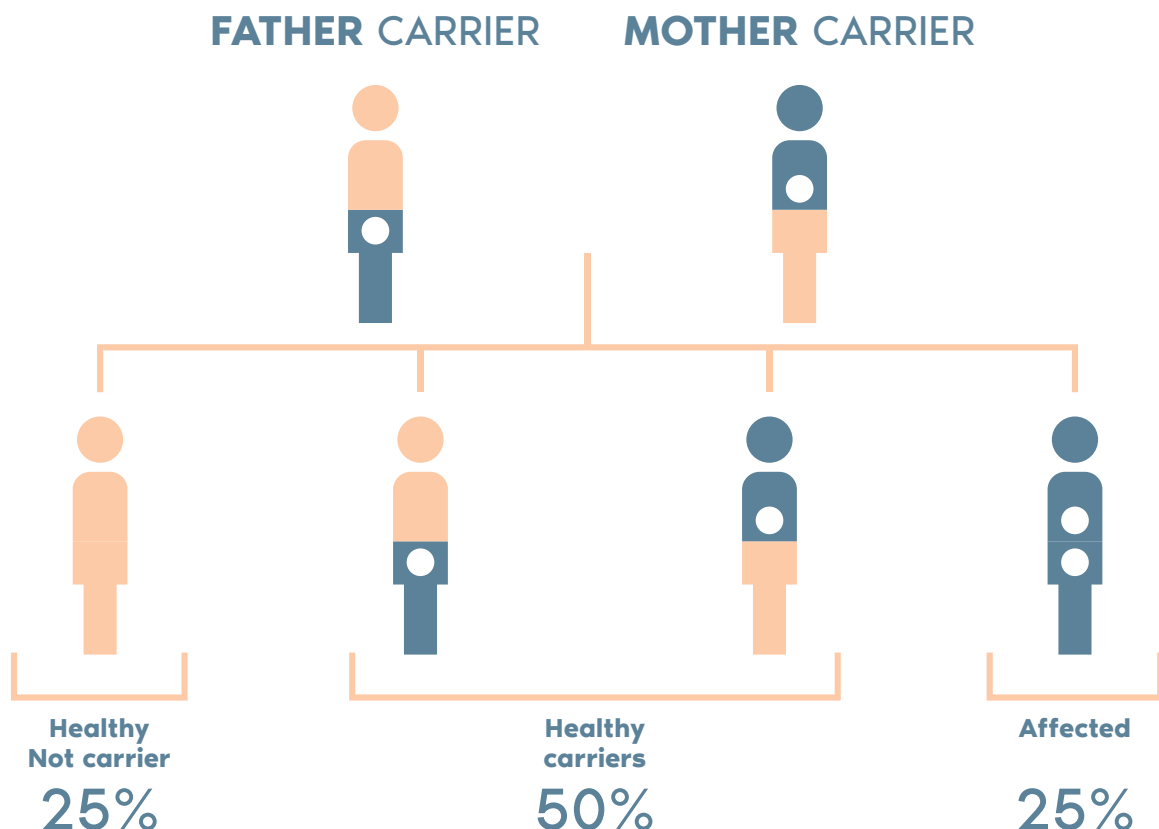
What happens if I'm a carrier?

NOTHING

Being a carrier of a mutation doesn't mean you will develop the illness*.







We are all carriers of certain genetic mutations. Although carriers are healthy people, if both parents have a mutation in the same gene the probability of having a sick child is 25%.

*autosomal recessive or X-linked disorders (women)



3 CGT testing options

CGT Carrier Genetic Test
Basic

Type of panel	Recommended by the medical societies
 Genes	8
 Numbers of diseases	8
 Estimated carrier rate (%)*	10,6%
 Estimated mean of mutations/individual**	1,06
 Sample	Blood
 TAT	

* In-house data base of 30,000 tests
**Estimated mean of positive individuals

What if both parents test positive?



The recommendation is to consult with a specialist about the options for conceiving a healthy child.

PGT-M can prevent those couples from having a baby with a disease.

Other parents may turn to egg or sperm donation to prevent these illnesses.

The parents can also think about adoption to avoid having a sick child.

CGT
Plus Carrier
Genetic
Test

**Extended panel
(includes CGT Basic)**

306

352

54,8%

1,46

CGT
Exome Carrier
Genetic
Test

**Whole exome compatible
with most carrier
platforms in the market**

1590

+1600

62,7%

2,28

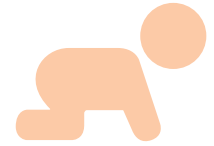
Blood



What disorders are included?

According to data from the World Health Organization (WHO)(*), the global prevalence of these illnesses is 10 in 1000 newborn infants.

There are estimates that, taken together, indicate that these illnesses represent 20% of the causes of infant mortality in developed countries and that they are behind 18% of the interventions in pediatric hospitals (**)



10/1000



The test covers a wide range of mutations that result in serious genetic illnesses. It includes screening of all the mutations recommended by professional gynecology and genetic associations (***)

See the complete panel of mutations included in the CGT test at www.igenomix.com

THE MOST COMMON MONOGENIC DISORDERS DETECTED WITH THE CGT TEST ARE :	PROPORTION OF CARRIERS
Cystic fibrosis	1 in 25
Spinal Muscular atrophy	1 in 50
Autosomal recessive polycystic kidney disease	1 in 70
Non-syndromic hereditary sensorineural hearing loss	1 in 80
Mucopolysaccharidosis	1 in 80
Sickle-cell anemia	1 in 150
Gaucher's disease	1 in 200
Fragile-X syndrome	1 in 250
Beta thalassemia	1 in 300

(*) According to data from the World Health Organization (WHO) <http://www.who.int/genomics/public/geneticdiseases/en/index2.html>

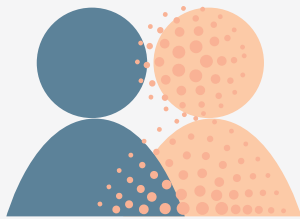
(**) Kingsmore S. PLOS Currents Evidence on Genomic Tests. 2012 May 2. Edition 1. doi: 10.1371/4f9877ab8ffa9.

(***)The American College of Medical Genetics (ACMG) and The American Congress of Obstetricians and Gynecologists (ACOG).



What is the Igenomix Carrier Genetic Test?

The CGT is an important genetic test when planning a family, because **it helps to determine the risk of having a child with a genetic disease**. The test tells us whether the parents carry one or more recessive genetic mutations.



Carriers are usually healthy but when two parents carry a mutation in the same gene they might produce an affected child.

Who is the CGT for?

The test is recommended in the following cases:

- **Before attempting a pregnancy by natural means**
- **Before an assisted reproduction treatment**
- **Before treatment with donor sperm or eggs**



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