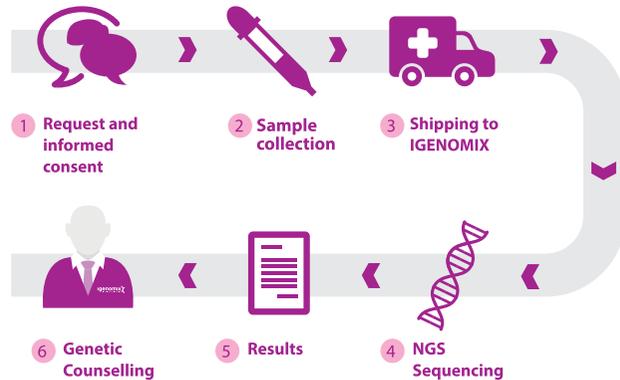




In the women diagnosed with breast cancer and a negative result of BRCA1 and BRCA2 gene screening, Oncodona test can find a mutation in upto 4% of those women.

How to perform the test?



Time of delivery of results: 30 days

What are the BRCA1 and BRCA2 genes?

BRCA1 and BRCA2 genes are the two most important genes that produce tumour suppressor proteins, which helps to repair damaged DNA. When these genes are functioning normally, they help to keep the breast, ovarian and other cells from dividing too rapidly or in uncontrolled way. **If one of the genes has a mutation or changes, the function of the protein will be less or absent, leading to accumulation of new genetic mutations or changes.** This will further lead to development of breast or ovarian cancer.

The risk for a woman of getting breast or ovarian cancer, as well as other related cancers, increases significantly if she inherits a damaging mutation in the BRCA1 and BRCA2 gene.

The presence of mutations in BRCA1 and BRCA2 genes are 20 fold higher in women with precocious breast cancer diagnosed before age 40. Mutations in BRCA1 and BRCA2 account for approximately 5-10% of all breast cancers and between 10-15% of ovarian cancers.

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Early risk detection
of hereditary breast
and ovarian cancer

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Breast cancer is the most common tumour in today's women. The risk of a women suffering breast or ovarian cancer **increases considerably if she inherits a harmful mutation** in the BRCA1 gene or in the BRCA2 gene.

Oncodona is a complete genetic screening test that analyzes 21 genes related to breast and ovarian cancer in order to locate mutations that increase the risk of developing these types of cancer.

The performance of the test, if positive, can be used to adopt follow-up and personalized early detection measures of the patient and their relatives.

The Oncodona test offers genetic counselling by expert staff.



What is IGENOMIX Oncodona test?

It is the most advanced genetic test for early detection of predisposition to inherited cancer. Oncodona uses Next Generation Sequencing (NGS) to analyze genetic information present in a panel of 21 genes, including BRCA1 and BRCA2 genes, in order to locate harmful mutations.

The presence of a change or mutation in one of these genes assumes that the female carrier has an increased risk of developing breast and ovarian tumours, or other related cancers.

What genes are included in the Oncodona Test?

In addition to the BRCA1 and BRCA2 genes, the Oncodona test analyzes 19 more genes associated with risk of breast and ovarian cancer, which makes it a complete test.

BRCA1	BRCA2	CDH1	PTEN
TP53	PALB2	STK11	ATM
BARD1	BRIP1	CHEK2	MLH1
MSH2	MSH6	MRE11A	MUTYH
NBN	PMS2	PMS1	RAD51C
RAD50			

Why take the IGENOMIX Oncodona test?

- In these cases, it is essential to perform intensive tests to locate the cancer in its early stage so that there will be higher probability of successful treatment.
- In the case of people with mutations, there are several preventive options to deal with the cancer risk. These measures include intensified screening for early diagnosis.



A positive test result may also have important health implications for family members, and even for future generations.



When a mutation is detected in a family member, there is an increased risk that the other members of the family will be carriers of the same mutation.

- People who inherit harmful mutations have 50% risk of passing the same to their children
- If a person has inherited a harmful mutation, it means that each of their brothers or sisters also has 50% chance of inheriting that mutation.



50% chance of inheriting and transmitting the harmful mutation

Who should do the test?

Oncodona is a simple and complete test for all women who want to have the maximum information about their personal risk of developing cancer.

The information provided by Oncodona allows you to customise the breast and ovarian cancer prevention programme.