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CAP ACCREDITED
COLLEGE of AMERICAN PATHOLOGISTS

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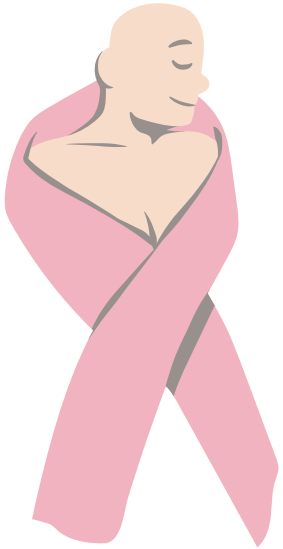
Witty Charman Medical

BRCA 1 & 2 By NGS (Germline) Test

NGS based test to
Identify the genetic cause of developmental delay, neurological disorders, congenital anomalies, mitochondrial diseases & unexplained multisystem disorders.

One Test. Two Genomes. Better Answers



About BRCA1 & BRCA2

BRCA1 & **BRCA2** are **tumor suppressor genes** involved in **DNA repair**. Germline pathogenic variants are associated with **Hereditary Breast & Ovarian Cancer (HBOC) syndrome** & an increased risk of **breast, ovarian, pancreatic, prostate & male breast cancers**. These variants can be **inherited from either parent**.

Clinical Indication

Recommended for individuals with	
Personal/family history of breast, ovarian, pancreatic or prostate cancer	Suspected HBOC syndrome
Early-onset cancer	Multiple primary cancers

Genes Analyzed

BRCA1

BRCA2

Methodology

Next Generation Sequencing (NGS)

Detection Capability

SNVs & Indels in BRCA1 & BRCA2

Covers coding regions & splice-site junctions

Clinical Utility

Identifies hereditary cancer-associated variants

Supports cancer risk assessment

Guides personalized screening & prevention

Assists treatment planning

Enables family risk assessment & cascade testing

Test Coverage

Complete coding regions of BRCA1 & BRCA2

Includes splice-site junctions

Gene coverage: BRCA1 (100%), BRCA2 (100%)

Additional Testing Consideration

For patients with a strong clinical suspicion of hereditary cancer despite negative BRCA1/2 findings, consider:

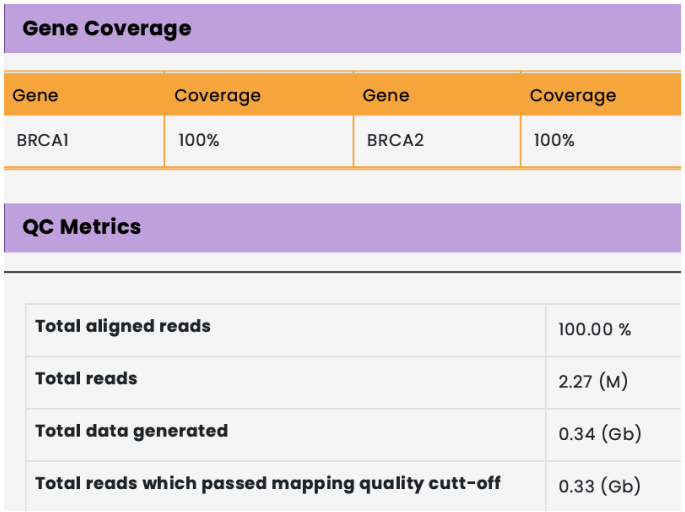
MLPA analysis to detect large deletions/duplications (CNVs)

Expanded hereditary cancer panel testing (e.g., TP53, PTEN, CHEK2, Lynch syndrome-associated genes)

Test Details

Test Code	**T2021**
Test Name	**BRCA1 & 2 By NGS (Germline)**
TAT	14 days
Sample Type	Peripheral blood (EDTA blood sample)

Dummy Report



Gene Coverage

Gene	Coverage	Gene	Coverage
BRCA1	100%	BRCA2	100%

QC Metrics

Total aligned reads	100.00 %
Total reads	2.27 (M)
Total data generated	0.34 (Gb)
Total reads which passed mapping quality cutt-off	0.33 (Gb)

Genetic Counseling

Genetic counseling is recommended before & after testing to support appropriate test selection, result interpretation & patient management

Neuberg Diagnostics

Neuberg Diagnostics is a leading diagnostic laboratory network headquartered in India, with a presence across India, the UAE, South Africa & the USA. Accredited by CAP & NABL, Neuberg offers advanced diagnostic testing supported by expert pathologists, geneticists & laboratory professionals. The group processes over 30 million tests annually through a network of 250+ laboratories, delivering high-quality & accurate diagnostic reports.

Witty Charman

Witty Charman delivers medical technology, clinical services, wellness and enables Next Generation Genetic Testing services. It's in Tenth year of service to Malaysia . It was founded with a vision to improve healthcare through affordable, innovative & compassionate solutions for Paediatrics to Geriatrics.

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