

Couple Carrier Screening



India carries a high genetic burden of Hemoglobinopathies, with ~35–45 million β -thalassemia carriers, making *carrier screening* important for prevention.

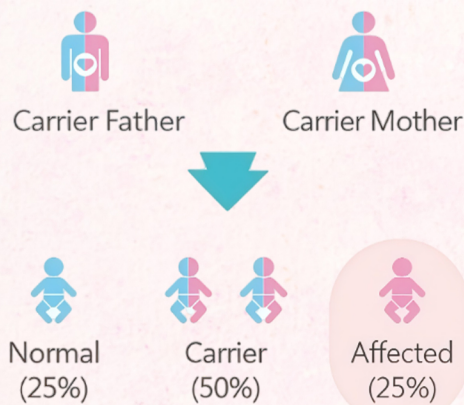
Couple Carrier Screening

It is a simple genetic test for both partners, ideally performed before pregnancy, that identifies whether both individuals carry the same **silent** genetic variant for a serious inherited condition helping families understand risks early and plan for healthier future generations.

You feel fine, but genes can hide surprises.

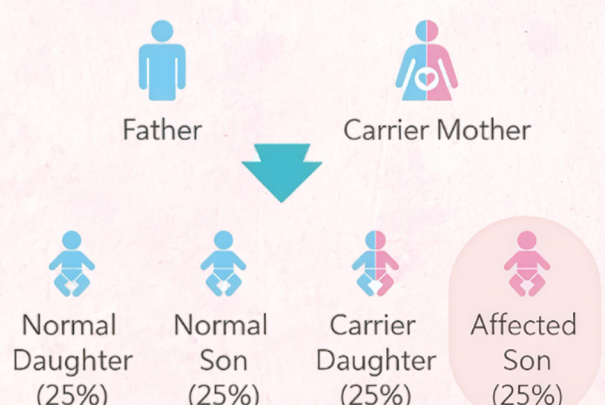
- Carrier individuals are commonly **asymptomatic**.
- Most individuals unknowingly carry severe **genetic mutations**.
- Risk only exists if **both partners** carry a variation in the same gene.

Autosomal Recessive Inheritance



If **both parents are carriers** of the same disorder, there is a **25% chance** that the baby will inherit the disorder.

X-Linked Recessive Inheritance



If the **mother is a carrier**, there is a **25% chance** that she will have an affected male child in each pregnancy.

Test Specifications

- Coverage - More than 2000 genes.
- Technology - NGS/MLPA(SMA & DMD)
- TAT- 4 weeks
- Sample type- 2 mL peripheral blood in EDTA tube from each partner
- Variant type- CNV, SNV, Deletion/Duplication (for SMA & DMD gene)
- High Sensitivity- 99%

Who should get Tested?

- The couple is related by blood (consanguineous marriage).
- One partner has a known hereditary condition.
- There is a family history of genetic disorders.
- Previous pregnancies with bad obstetric history.
- Couple belong to an ethnic group with a higher likelihood of certain genetic conditions.

Most Common Genetic Disorders in India

Autosomal Recessive Disorders: Beta Thalassemia, Sickle Cell Anaemia, Cystic Fibrosis, Congenital Adrenal Hyperplasia, Spinal Muscular Atrophy, Congenital Hypothyroidism.

X-linked Recessive Disorders: Duchenne Muscular Dystrophy, Haemophilia A/B, Hunter Syndrome, G6PD Deficiency, X-linked Intellectual Disability.

+91 75691 32891

info@theonedna.com

502, Sonthalia Emerald, Somajiguda, Hyderabad-500082

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