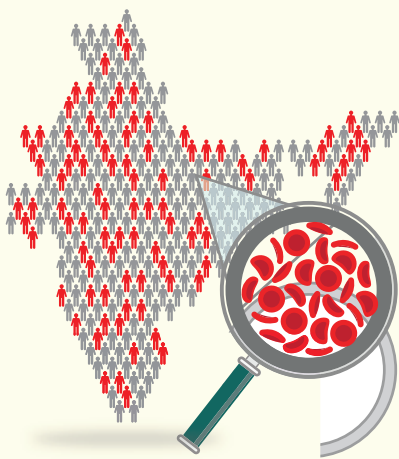


MFine Diagnostics' Advanced Genetic Screening For Beta Thalassemia & Sickle Cell Anaemia

MFine Diagnostics' comprehensive two tier program for screening and mutation profiling of beta thalassemia and sickle cell anaemia in mother and child



About the condition:

β-thalassemia and Sickle cell disease are two of the most common single-gene disorders in the Indian population. They are inherited blood disorders that affect the body's ability to produce hemoglobin and red blood cells. A person with Thalassemia and Sickle cell Anaemia (SCA) will have too few red blood cells, too little haemoglobin, and the size of the red blood cells may also be too small.

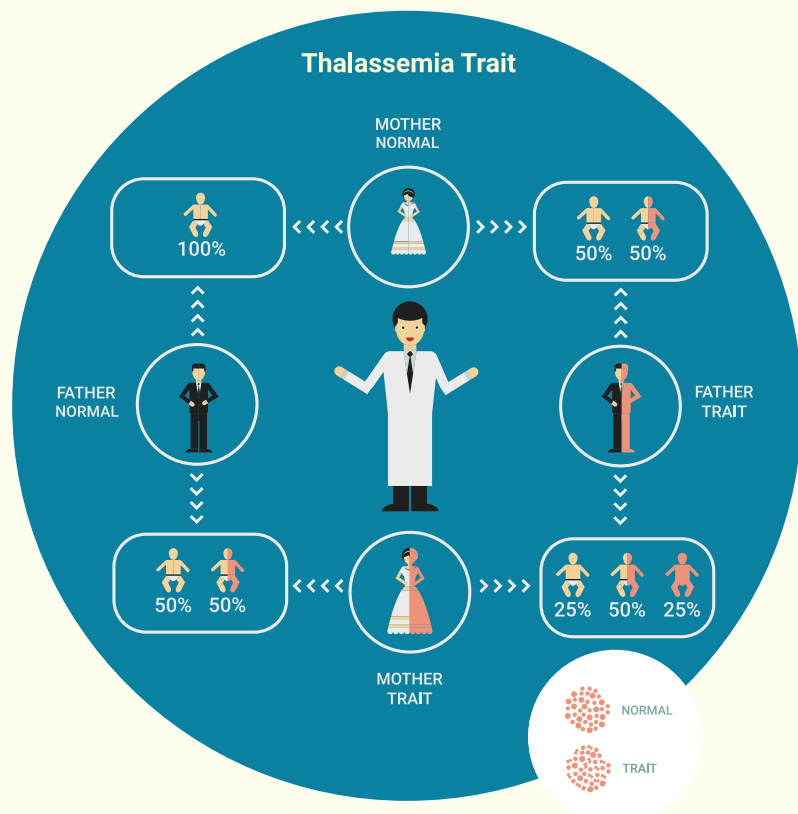
Who to Screen:

Indications for carrier screening – Family history of β-thalassemia, patients belonging to high-risk ethnic groups, reproductive partners of known Thalassemia carriers, microcytosis and unidentified iron deficiency.

Typical Testing Strategy:

Initial Testing – Screen for abnormal haemoglobin (Hb) variants using LifeCell Diagnostics' Advanced Haemoglobinopathy Screening Test.

Secondary Test – Sequencing of HBB gene by LifeCell Diagnostics' Genetic Testing confirms the abnormal Hb variant(s) detected using capillary electrophoresis method.



Name of Salesperson: Contact:

Why Choose MFine Diagnostics' Advanced Hemoglobinopathy Screening ?

LifeCell Diagnostics introduces the most advanced Haemoglobinopathy screening technology using **Sebia CAPILLARY ELECTROPHORESIS** for a complete walk-away automation of screening.

Samples Screened:

1. Peripheral Blood
2. Dried Blood Spot

Uniqueness of Technology:

- High resolution separation between Hb A₂, Hb E and Hb C
- Full separation of Hb D from Hb S
- Clear visibility for Hb H and Hb Bart's
- No interference of glycated Hb and other Hb adducts
- Detection of rare variants

Advantages of Sebia CE over conventional HPLC:

- Automated and higher throughput compared to HPLC with faster separation time
- Small sample volume sufficient for analysis :5uL
- CE has flat flow compared to parabolic flow resulting in narrower peak and better resolution
- Quantification of normal variant Hb available in every sample

Why Choose MFine Diagnostics' Genetic Testing? : Complete sequencing of HBB Gene

Our **DNA Sequencing Methodology** detects all the commonly reported mutations (>200 variants) and any other listed pathological mutations in both parents and neonates through a single test. Additionally, the assay has the potential to extend the detection to any novel mutations and mutation causative of Sickle Cell Anaemia.

Samples Type:

1. Peripheral Blood
2. Amniotic Fluid
3. CVS

MFine Diagnostics' Gene Sequencing Advantage over Targeted Panel based test



Sensitive & Specific



Detection of novel and non-targeted mutation



Rapid & Cost effective



Our Trio-Analysis Prenatal Package:

Complete B-gene sequencing on expectant parents and fetus for detection of Thalassemia and Sickle Cell anaemia.

Genetic testing helps in identifying the type and severity of Thalassemia. Most importantly, for precise carrier testing and diagnosis of the condition in the foetus genetic testing is absolutely must.

Consult With Our Genetic Clinic About Testing Options

Our Genetic counselors bring value to proper test utilization by making sure the most appropriate test has been ordered after proper understanding and counselling of the affected family.

Our genetic counsellors are available to:

- Support the ordering process.
- Provide additional information about testing options.
- Offer results interpretation.
- Assist with case review and coordination.



support@mfine.co



www.mfine.co