Claria
a new life. well planned.

MEDGENOME

Pre Implantation Genetic Diagnosis (PGD)

PGD is a diagnostic procedure that tests the embryo for any mutations inherited from one or both parents. This test is performed when one or both genetic parents has a known genetic abnormality. Each test is tailor-made according to the family history and genetic make-up of the parents.

Possible candidates for PGD

- Carriers of X-linked genetic disorders
- Carriers of single gene disorders
- Couples who have a child/children affected by a single gene disorder
- Couples who have a family history of a single gene disorder

Benefits of PGD?

1. PGD can test for most single gene disorders (Autosomal / X-linked dominant and recessive)
2. PGD allows the clinician to select embryos that do not carry the single gene disorder for implantation
3. PGD helps prevent the passing on of single gene disorders to the next generation

Call 1800 103 3691 to know more

Bangalore | Chennai | Delhi | Kochi
Mumbai | California | Singapore

diagnostics@medgenome.com

www.medgenome.com

Claria
a new life. well planned.

MEDGENOME

Claria PGD workflow

Genetic assessment
- The patient's family and genetic history are assessed
- Genetic testing is done to identify the variants in the couple and affected child (if any)

Pre-PGD work-up
- PCR primers are designed for known mutation(s) obtained from the genetic assessment
- Whole Genome Amplification (WGA) is carried out on the couples blood using the primer to check for mutations

In Vitro Fertilisation*
Embryos obtained from IVF of the patient are incubated

Embryo biopsy*
A small sample of cells is taken from the embryos on Day 3 (Blastomeres) or Day 5 (Trophectoderm)

Sample collection and transportation
An embryo sample is collected using the kit provided by MedGenome and is shipped to the MedGenome lab in Bangalore

PGD analysis carried out
Embryo biopsy is analysed for the presence of mutations

Report generation and interpretation
Our highly qualified scientific team will help interpret the results and make recommendations on embryo transfer

Embryo transfer*
Unaffected embryos are transferred

PGD can be combined with Pre-Implantation Genetic Screening (PGS) to offer screening for Chromosomal Aneuploidies along with mutations.

** Carried out at the IVF center*