



PRENITA

YOUR  
ASSAURANCE ON  
**SAFETY**

**PRENITA PGD**

Preimplantation Genetic Diagnosis



  
**bioserve**  
A REPROCELL COMPANY



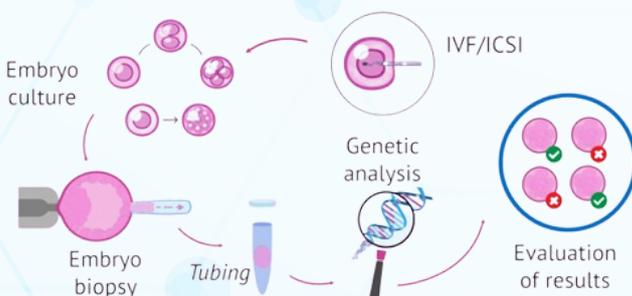
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## PRENITA PGD/PGT-M

Preimplantation Genetic Diagnosis (PGD) may be conducted prior to conception for individuals who know that they are at elevated risk of passing on a particular genetic disorder to significantly minimise the risk of raising an affected infant. PGD requires testing embryos developed by in vitro fertilisation (IVF) and then transferring unaffected embryos for single gene disorders.

PGD is also called PGT-M Preimplantation Genetic Testing for Monogenic Disorders. For individuals who are at high risk of passing on a particular single gene disorder, PGD is sufficient.



## WHO SHOULD GO FOR PGD?

- Carriers with genetic diseases related to X-chromosome
- Single Gene Diseases Carriers
- Couples with a single gene mutation affecting a child or children
- Couples with a common gene-disorder family history

## WHAT DOES PGD SCREEN FOR?

PGD screens for Single gene genetic disorders, that are borne by the chromosome are as follows..

- Beta Thalassemia
- Sickle Cell Anaemia
- Cystic Fibrosis
- DMD (Duchenne Muscular Dystrophy)
- SMA (Spinal Muscular Atrophy)
- Tay Sachs
- Fragile X



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## PGD WORKFLOW

PGS can be added to your IVF treatment plan. This is how it works here:



### ANALYSIS OF CASES

Prospective parents talk to a genetic counsellor and discuss whether further genetic testing of the couple or other members of the family is appropriate.



### PGD TEST PREPARATION

A test special to each family is developed by our team.



### EMBRYO BIOPSY

An embryologist carefully extracts from each embryo a tiny cell sample.



### PGD

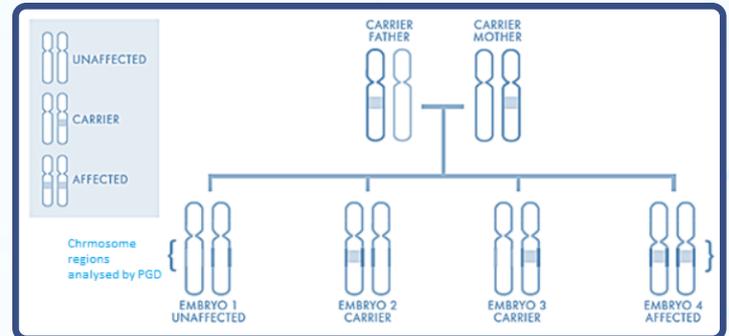
Samples are sent to the laboratory of PGD, testing is carried out, and findings are released to the centre of IVF.



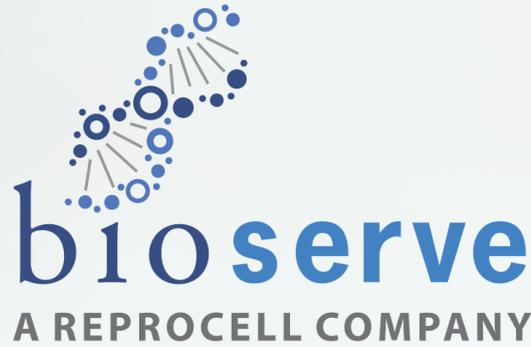
### TRANSFERRING EMBRYO

An unaffected embryo is transferred. For potential use, residual embryos may be frozen.

## PGD TECHNOLOGY



Every PGD test design is unique and family specific, so to design a test, DNA samples from both partners and sometimes additional family members will be required.



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