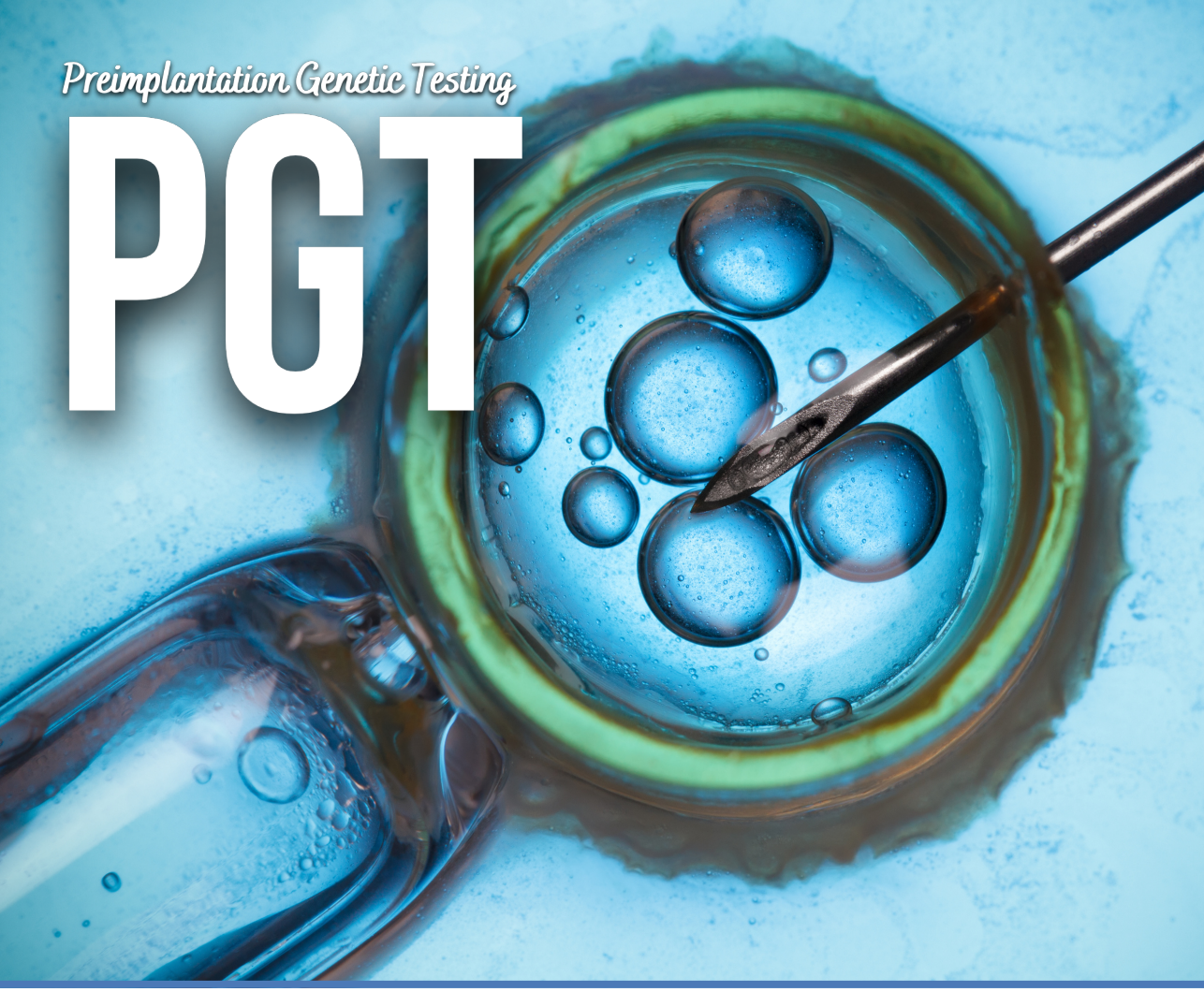
Preimplantation Genetic Testing

PGT



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WHAT IS PGT?

PGT is one of the options used to increase the chance of having healthy children for couples who have been in a consanguineous marriage, have a family history of chromosomal diseases, or are at risk of genetically transmitted diseases such as familial cancer. PGT is a genetic test that is performed on the biopsy sample taken from each embryo before the transfer and ensures that the healthy embryo is selected and transferred to the mother.

PGT-A & PGT-SR

For Chromosomal disorders

PGT-A is used to screen for whole chromosomal aneuploidies or loss and gain of large fragments.
PGT-SR is used to screen for smaller chromosomal losses and gains compare to PGT-A
Previously, the FISH method was used to investigate chromosomal abnormalities; Today, this method is almost abandoned in most centers because of its low reliability.
Today, next-generation sequencing (NGS)-based methods are used and can show numerical changes of all chromosomes in the embryo by using a little amount of DNA.

PGT-M

For Single gene (Monogenic) disorders

The PGT-M method is used for families with a single-gene disorder.
It is possible to test embryos for one or more genetic diseases with a recurrence risk in the family.

In addition, in consanguineous marriages, those diseases that both of the spouses are carriers for can be determined by the use of large gene panels and after that, the selection of healthy embryos which do not carry these diseases can be proceeded by the PGT-M method.

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