
LifeView™
PGT-SR
For Structural Rearrangements
Genomic Prediction
Clinical Laboratory

Testing for structural rearrangements (PGT-SR)
Preimplantation genetic testing for structural rearrangements (PGT-SR) is a genetic test performed on embryo biopsies, specifically designed to screen embryos for extra or missing chromosome material associated with a parental structural rearrangement.

Who can benefit from PGT-SR?
PGT-SR is appropriate for individuals identified as having a balanced chromosome rearrangement. "Structural" or "chromosomal" rearrangements refer to chromosomal material that is ordered differently than usual. Individuals who are carriers of a balanced chromosome rearrangement have a higher chance of creating embryos with extra or missing genetic material; leading to fertility problems, pregnancy loss and health problems in an ongoing pregnancy.

How is this information helpful?
Screening embryos for extra or missing genetic material may help you and your doctor decide which embryos to select transfer, to increase the chance of a healthy pregnancy outcome.

Can LifeView PGT-SR be used for different kinds of structural rearrangements?
Yes. Genomic Prediction Clinical Laboratory has experience testing for different types of chromosome rearrangements, including:
- **Reciprocal translocations:** Chomosome material from two different chromosomes have swapped places.
- **Inversions**: Chromosome material is “flipped over” within a chromosome.
- **Robertsonian translocations**: Two different chromosomes are attached together.

Can LifeView™ distinguish between embryos with a normal karyotype and embryos that are positive for a balanced rearrangement?
Yes. As long as we have data for comparison, it is possible to distinguish between embryos that inherited the balanced chromosome rearrangement identified in the parent and embryos that are negative for the rearrarangement. This is one of the ways that LifeView™ PGT-SR is superior to other PGT-SR options.

What is the process?
Prior to testing, we review your genetic reports (karyotypes) in order to confirm the testing plan. Maternal and paternal saliva samples are collected along with biopsy samples from each embryo. In some cases, saliva or other DNA samples from additional family members may be needed. Once all of the samples are recieved, a genetic report is generated and sent to your physician within 14 days.

How accurate is LifeView™ PGT-SR?
Diagnostic accuracy is greater than 99%.

Is aneuploidy (PGT-A) included in LifeView™?
Yes. All LifeView™ PGT-SR includes aneuploidy screening, or PGT-A, to screen for other forms of aneuploidy unrelated to the parental chromosome rearrangement. This screening is performed at no extra charge and without the need for additional embryo biopsy samples.

Can LifeView™ PGT-SR be expanded to include other types of testing?
Using the same sample, LiveView may also be expanded to include:
PGT-P: LifeView™ is the only platform validated to accurately predict each embryos lifetime risk for polygenic disorders; diseases influenced by variants in many genes, such as diabetes and certain cancers. Deciding which embryos to prioritize for transfer using LifeView™ PGT-P has been validated to reduce incidence of these disorders later in life.
PGT-M: Preimplantation genetic testing for monogenic disorders is uniquely designed for individuals or couples at risk of passing on a monogenic, or single gene, disorder.
M2: M2 is a genetic variant associated with increased risk of pregnancy complications and miscarriage. For couples with M2, LifeView™ can can be expanded to include M2 haplotype testing, to help you and your doctor make informed interventions to reduce the risk of miscarriage.

Who can I ask questions about LifeView™?
Genetic counseling is included with LifeView™ at no extra charge. Ask your IVF team to refer you for a virtual genetic counseling session.

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