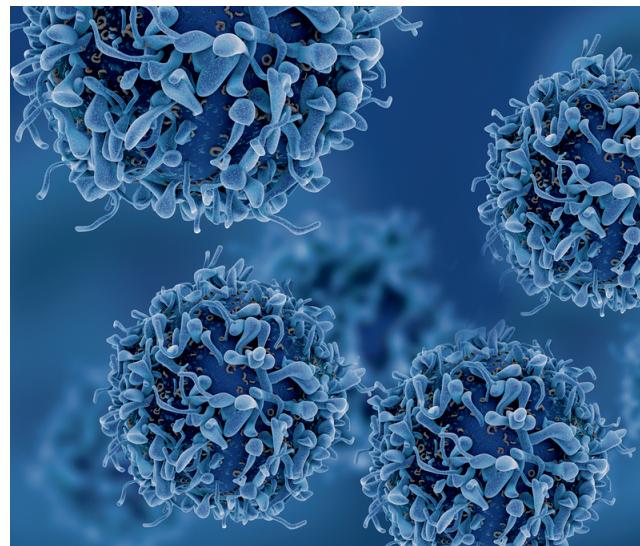


Sperm DNA Fragmentation (SDF)



Sperm DNA Fragmentation (SDF) evaluates the amount of damaged DNA in a sperm sample which may be required over and above routine semen analysis for those undergoing infertility treatments. SDF is one of the most common abnormalities affecting DNA integrity in the form of single or double strand breaks.

Cause of Sperm DNA Fragmentation

Underlying medical conditions, or certain lifestyle choices (smoking, alcohol, stress, poor diet), infection, varicocoele, recreational drug use, environmental exposure (air pollution, pesticides, industrial chemicals) and advanced age.

Why Sperm DNA Fragmentation (SDF)?

- ✓ Sperm DNA integrity is crucial for fertilization & development of healthy offspring.
- ✓ About 15% of men who have a normal analysis are still unable to conceive. This indicates that conventional semen analysis alone cannot assess the sperm at molecular level, cannot be relied upon to provide information for the assessment of male fertility potential & success of assisted reproductive technology.
- ✓ All men have some amount of damage to their sperm DNA, but high percentages of damage may indicate greater difficulty achieving pregnancy with IUI and IVF. SDF can avoid unnecessary delay in definitive treatment, cost of failed cycles & heartache.

Carrying forward
Dr. Ajit Golwilkar's
legacy
of over
Four
Decades

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Automated Semen & Sperm Quality Analyser (SQA – V)

- Fully automated Semen Analysis as per WHO 6th edition, 2021 laboratory manual
- Morphology according to Kruger's strict criteria
- Advantages of using Automated Semen Analyser:
Standardization, speed, precision, automated data recording
- Important additional parameters that add value to Semen Analysis:
 - ✓ **TFSC (Total Functional Sperm Count)**
Reveals the number of Champion sperms (Progressively motile Sperms with normal morphology)
 - ✓ **SMI (Sperm Motility Index)**
Higher the SMI, higher the chances of fertilization
 - ✓ **Velocity**
Measures the average speed of the progressively motile sperm in microns per second

Available Parameters on SQA - V

- | | |
|-------------------------------------|----------------------------------|
| • Sperm concentration | • Immotility |
| • % Motility | • % Normal morphology |
| ✓ % Progressive motility | • Functional sperm concentration |
| ✓ % Non-progressive motility | • Velocity |
| ✓ % Rapid/slow progressive motility | |

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