

# haloview®

DNA Fragmentation Kit



- **Haloview® Kit** specifically designed for Human Spermatozoa.
- **Haloview® Kit** helps to assess the ability of Spermatozoa to transmit an intact genome for the initiation of the pregnancy.
- **Haloview® Kit** results helps you to prescribe the line of treatment and recommend lifestyle changes.

#### Indications for Sperm DNA Fragmentation Test:

- Unexplained infertility.
- Couples suffering from recurrent miscarriages.
- Multiple failed IVF/ICSI cycles.
- Advanced paternal age.
- Varicocele.
- Risk of exposure to harmful substances.

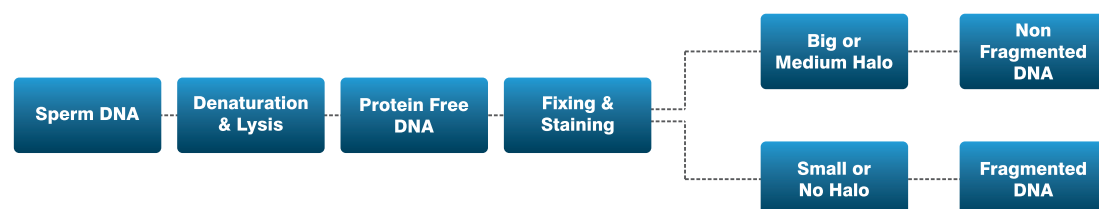
## Things to Think About:

- If >30% sperm have abnormal chromatin; fertility is hampered independent of sperm number, morphology, and motility
- Infertile patients have higher mean level of fragmentation (40.9+14.3%) than men of proven fertility (13.1+7.3%). If >30% sperm have abnormal chromatin; fertility is hampered independent of sperm number, morphology, and motility
- Sperm DNA damage is associated with a significantly increased risk of pregnancy loss after IVF & ICSI.

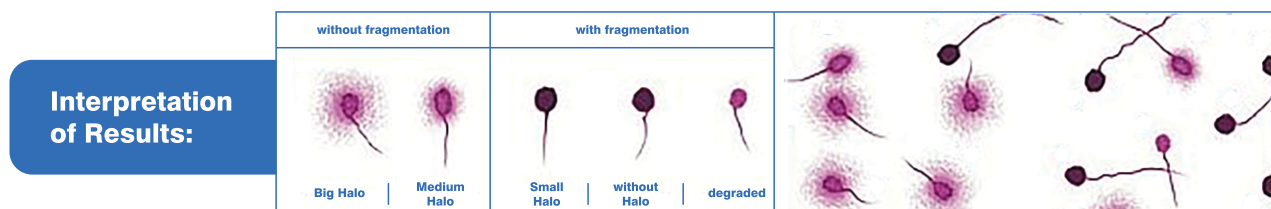
## Role of DNA Fragmentation in Male Infertility:

Apart from the routine semen parameters, another aspect which is important is the integrity of the sperm genetic material and its relevance in normal embryonic development. Thus tests for DNA fragmentation, like those based on the sperm chromatin dispersion (SCD) test are also gaining importance especially in cases of unexplained infertility and recurrent miscarriage. Haloview, developed by Shivani Scientific, which is based on the SCD test, provides a ready to use diagnostic kit for the assessment of Sperm DNA Fragmentation

## Haloview® Kit (Sperm Chromatin Dispersion Test)



ASSAY	PRINCIPLE	MEASURED PARAMETER	DETECTION METHOD
SCD	Mild acid denaturation of DNA and lysis of protamines creates a chromatin decondensation halo around sperm head when DNA is intact and no Halo when DNA is damaged.	% cells with small or absent decondensation Halo.	Bright Field Microscopy (20X,40X).



## Comparison of different Protocols:

	TUNEL	Comet	SCSA	SCD
Equipment	Requires fluorochromes	Requires fluorochromes	Requires cytometer fluorochromes	Requires compound Microscope
Manpower	Requires highly trained personnel	Requires highly trained personnel	Requires highly trained personnel	Simple test which can be performed with little training
Time	Long procedure	Long procedure	Long procedure	Comparatively quick

## References

Cynthia M Feijo, M.Sc, and Sandro Esteves, Ph.D. Diagnostic accuracy of sperm chromatin dispersion test to evaluate sperm deoxyribonucleic acid damage in men with unexplained infertility. Fertility & Sterility 2014; 101(1):58-63