

**FACILITIES AVAILABLE**

- Health Checkup
- Pre-Employment Checkup
- Pathology Laboratory
- FNAC & USG Guided FNAC
- Histopathology
- Digital Sonography
- 3D/4D Sonography
- Color Doppler
- 2D Echo & ECG
- Digital X-Rays & Procedures

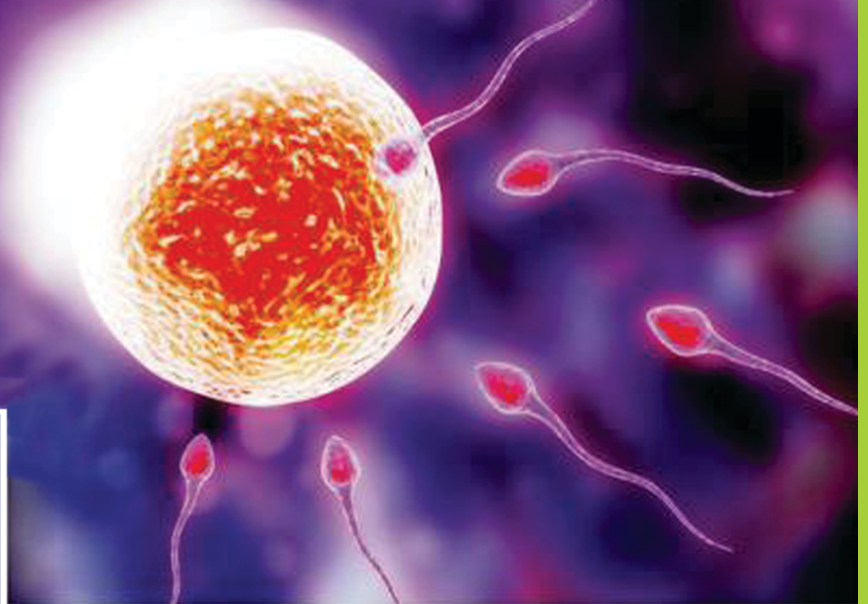
# ORCHID DIAGNOSTIC CENTRE

## AUTOMATED SEMEN & SPERM QUALITY ANALYSER



Male factor contributes nearly 50% of the sub fertile couple. Semen report plays an important role in couple's fertility journey. Manual semen analysis is considered to be subjective and lack of accuracy. Considering this, **ORCHID DIAGNOSTIC CENTRE** is equipped with computerized automated sperm quality analyzer.

Standardized and objective semen report will help clinicians to chart proper line of treatment. And will come to know whether male factor is involved in the sub fertile couple or not in the initial stage.



### Features of Automated Sperm Quality Analyser

- Follows latest WHO edition for the examination and processing of human semen.
- Morphology according to Kruger's strict criteria.
- Completely Objective and Standardized reports Automated, No manual or subjective variation.
- U.S FDA / CE approved Technology.
- Hundreds of research papers: Best solution for standardized reports.
- SMI- is a Semen Quality **UNIQUE EMPOWERED** Parameter.

**As per WHO 6th edition  
of semen analysis**

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## ORCHID DIAGNOSTIC CENTRE

### SOME FACTS ABOUT MALE FERTILITY AND SEMEN PARAMETER

- Globally male factor contributes in nearly 50% of infertile couples.
- Semen analysis is one and only important test in the evaluation of male fertility.
- A semen report plays a major role in the “COUPLE’S FERTILITY JOURNEY”.

### FEATURES OF AUTOMATED SEMEN ANALYSIS REPORT

- Reports as per W.H.O. Updated Protocol.
- Fully objective and standardized report.
- US FDA/ CE approved technology.
- 18 Clinical parameters related to sperm characteristics.

### PARAMETER INFORMATION

1. **CONCENTRATION:** Total number of sperms live and dead in one mL of given sample.
2. **TOTAL MOTILITY PR + NP:** % of total moving sperms in one ml of given sample.
3. **RAPIDLY PROGRESSIVE:** % of sperms that are moving at the speed of **more than 25 mic/sec.**
4. **SLOWLY PROGRESSIVE:** % of sperm that are moving at the speed between **5 to 25 mic/sec.**
5. **NON PROGRESSIVE:** % of sperms that are moving at the speed between **0 to 5 mic/sec.**
6. **IMMOTILE:** Gives the % of sperms that don’t have any movement at all.
7. **NORMAL FORMS:** % of morphologically normal sperms cells in one ml of semen sample.
8. **MOTILE SPERM CONCENTRATION:** Calculated parameter that gives the number moving sperms in M/ML
9. **RAPID PROG. MOTILE SPERM CONC.:** Calculated parameter that gives the number of sperms that are moving at the speed of more than 25 mic/sec in M/ML.
10. **SLOW PROG. MOTILE SPERM CONC.:** Calculated parameter that gives the number of sperms that are moving at the speed between 5 to 25 mic/sec in M/ML.
11. **FUCNTIONAL SPERM CONCENTRATION:** No. of sperms having normal morphology and progressive motility, these are the strongest sperm cells in the semen sample.
12. **VELOCITY:** Curvilinear velocity of the progressive moving sperms reported in mic/sec.
13. **SPERM MOTILITY INDEX:** Measured parameter comprises of Total Motility, Progressive Motility and Velocity of the moving sperm cells.

- Indicates the fertilizing potential of the semen sample.

**SMI > 160** : Excellent fertilizing potential.

**SMI between 80 – 160** : Good fertilizing potential.

**SMI < 80** : Poor Fertilizing potential

- Useful in evaluating the male factor in the initial screening itself.
- Can be used as substitute of other SPERM FUCNTION TESTS such as Penetrak test and ZSPT.