



Giving nature  
a helping hand...

**Fertility**  **Associates**  
nnovating for Life™

## Giving nature a helping hand...



Traditionally, infertility is defined as the inability to conceive for more than two years of unprotected intercourse, and 15 to 18 percent of couples in the reproductive age group face difficulty in conceiving worldwide. However, nearly 90 percent of infertility cases can be treated with advances in medicine and clinical procedures. These therapies include medical, surgical and Assisted Reproduction Techniques (ART), or a combination of some of these.

At Fertility Associates, we believe in taking a holistic approach to treatment of infertility problems — from investigation, individual assessment, to equipping couples with full information and helping them make informed decisions for tailor made treatments. Fertility Associates doctors, nursing staff, laboratory specialists and administrative personnel are dedicated to enhancing your comfort and your chances of successfully having a baby.



## What we have on offer

Fertility Associates services range from application of cutting-edge techniques in advanced infertility management to gynaecological endoscopy and fetal medicine.

### Advanced Infertility Management

- Ovulation Induction and Ultrasound Monitoring
- Intra Uterine Insemination (IUI)
- In Vitro Fertilization (IVF)
- Intra Cytoplasmic Sperm Injection (ICSI)
- Sperm Retrieval Procedures
- Laser Assisted Hatching
- Donor sperm, oocytes and embryos
- Cryopreservation
- Surrogacy
- Genetic testing

### Gynaecological Endoscopy

- Diagnostic and Operative Laparoscopy
- Diagnostic and Operative Hysteroscopy

### Fetal Medicine

- Clinic for recurrent spontaneous abortions

# Advanced Infertility Management

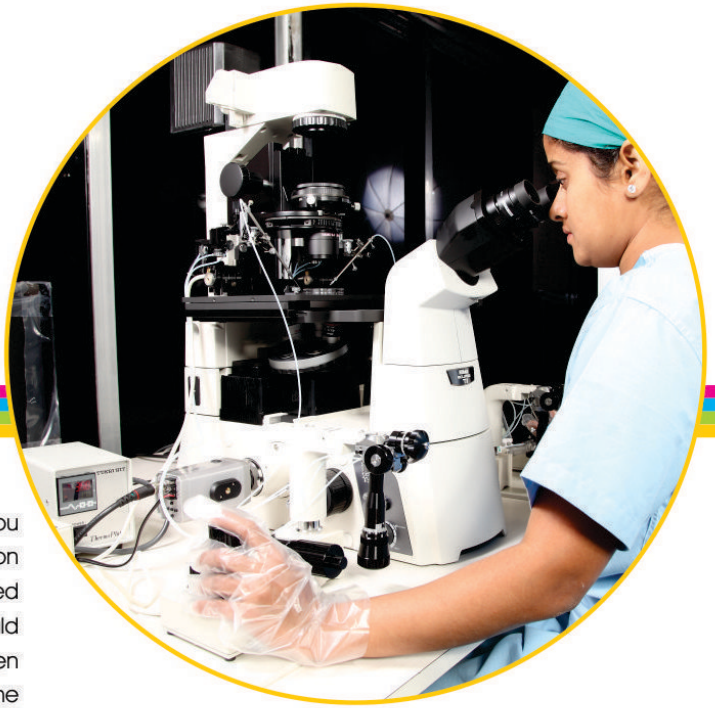
## Intra Uterine Insemination (IUI):

Intrauterine insemination involves processing the male partner's sperm in the laboratory to increase its vitality. The processed sperm is then introduced into the woman's womb by means of a fine catheter. The procedure is simple and painless but the timing of the IUI is important, as both the egg and the sperm have a limited lifetime.



## Sperm Retrieval Procedures:

Fertility Associates offers surgical sperm retrieval techniques like Percutaneous Epididymal Sperm Aspiration, Testicular Sperm Aspiration and Testicular Sperm Biopsy (PESA/TESA/TESE), which help in removing sperm from men with azoospermia, either from the epididymis or the testis to fertilize oocytes using ICSI. The extra sperm and testicular tissue can be frozen for future attempts also.



## In Vitro Fertilization (IVF):

Whether pregnancy eludes you due to a female or male factor, you could find a solution in in-vitro fertilization. IVF involves the fertilization of woman's oocytes (the female egg) outside her body. The fertilized embryo is then introduced in the woman's womb where it would implant if the conditions were favorable. A normal pregnancy then follows. The IVF treatment involves three phases — stimulating the ovaries to induce oocytes, recovering them and implanting the embryos.

## Intra Cytoplasmic Sperm Injection (ICSI):

ICSI involves the injection of a single sperm into each oocyte using glass pipettes that are 20 to 60 times thinner than human hair. For this procedure, the oocyte is prepared by removing its outer coat of cells called the cumulus complex. A suitable sperm is selected using a microscope, then sucked into an extremely fine glass pipette. This single sperm is injected directly into the cytoplasm of the oocyte. ICSI is a delicate but an effective technique. This improves the fertilization rate and offers hope to patients with severe male factor infertility.

## Laser Assisted Hatching:

Prior to implantation, the embryo has to come out of its protective shell known as the zona pellucida. This process, known as hatching, if not properly completed, can result in a failure in implantation. To overcome this hurdle, Fertility Associates offers laser technology for assisted embryo hatching. This is a simple, safe and precise technique, highly useful in cases of advanced maternal age, women with thick zona and in women with repeated IVF failures.



### Donor sperm, oocytes and embryos:

Since the only hope of parenthood in some couples lies in the availability of donor sperm, oocytes or embryos, Fertility Associates sperm bank stores donor semen after stringent evaluation for HIV, Hepatitis and VDRL. The sample is stored under WHO guidelines for the Donor Insemination program. We offer a program for oocyte donation for women with premature ovarian failure, surgical or induced menopause, and those in the perimenopausal age group, women with repeated poor recruitment of follicles at the time of IVF and women with extensive endometriosis, severe pelvic adhesions and inaccessible ovaries. In exceptional cases, like those with genetic disorders or gametogenic failure, either in the male or the female, the couple is also offered embryo donation through the donor embryo program. age group, women with repeated poor recruitment of follicles at the time of IVF and women with extensive endometriosis, severe pelvic adhesions and inaccessible ovaries.



### Cryopreservation:

Cryopreservation is a reliable, safe, and time-tested procedure for indefinite storage of gametes (semen, eggs ) and embryos. . We offer gamete cryopreservation services to men facing the possibility of sterilization due to vasectomy, prostate or testicular surgery, radiation or chemotherapy and due to occupational exposure to high levels of toxins. This is also helpful for men who are away from their wives due to unavoidable circumstances. Therapeutic insemination using cryopreserved semen allows such couples a chance to have a baby without undue loss of time. We also routinely freeze semen prior to initiating IVF or ICSI treatment, as a 'backup' in the event of difficulty in semen collection on the day of oocyte retrieval. Our large cryopreservation facility has the capability to store ejaculated, epididymal and testicular sperm, and testicular tissue.

Vitrification is the method of Ultrafast cryopreservation. It allows preservation of excess embryos for subsequent transfer and also useful in conditions such as hyperstimulation.

### Clinic for recurrent spontaneous abortions

One of the most trying conditions for a woman is to have repeated abortions. Our team of doctors, geneticists and sonologists help integrate different modalities required for diagnosing the cause of recurrent spontaneous abortions and offer various treatment modalities.



## State-of-the-art facilities

Fertility Associates offers cutting-edge techniques and procedures through facilities that include:

### Embryology Laboratory

The embryology laboratory of Fertility Associates maintains the highest standard and certifications. Its facilities include in-vitro fertilization, micromanipulation / ICSI, Laser Assisted Hatching, Blastocyst stage culture and Pre-implantation Genetic Diagnosis.

### Andrology laboratory

Fertility Associates offers the latest in technology in the area of semen analysis by making use of the Computer Assisted Semen Analysis System (CASA) to guide couples on the technique best suited to enhance their fertility. The laboratory also performs sperm 'washing' and sperm preparation for intrauterine insemination.

### Semen and Embryo Cryopreservation Laboratory

Our fully equipped cryopreservation facility has the ability to freeze ejaculated, epididymal and testicular sperm, testicular tissue and embryos by latest technology of vitrification.



## Team Fertility Associates



## PHILOSOPHY

- We believe in a holistic approach to the investigation and treatment of couples with infertility.
- All couples are assessed on an individual basis. We believe that all patients should be treated with respect and understanding irrespective of race, financial circumstances, religion and age.
- All referrals will be given equal consideration. Unilateral decisions are not made and the views of all members of the unit are equally valued. Treatment will be tailored to the couple's needs. It is not assumed that all couples will proceed along the lines of assisted reproduction.
- We try to empathize with the couple's distressing situation and where they manifest symptoms of stress and depression, it is not assumed that they are suffering from an underlying psychopathology. It is interpreted as an outcome of the experience, investigations and treatment.
- We believe that couples should be fully investigated and fully informed, so that they can join in the decision about their care and treatment.

## ASPIRATIONS

- To build a world class centre for Assisted Reproduction, Endoscopy and Fetal Medicine to help a couple to achieve their dream of having a healthy baby.
- To be in the forefront of cutting edge technology and research directed towards infertility, maternal - fetal medicine, gynecological endoscopy, bad obstetric history and gamete cryopreservation.
- To hold seminars, workshops and CME to educate and make doctor colleagues aware of problems in infertility, maternal-fetal medicine and the treatment options available.
- To present research work at national and international scientific meetings and forum and share the knowledge with other doctors for better understanding of infertility and maternal - fetal medicine.



# Fertility Associates



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