

## **Matritava Advanced IVF and training centre training course**

Course duration: 6 weeks (4 weeks virtual theory + 2 weeks hands on training) (Monday to Friday)

### **Objectives of the IVF training course:**

- To understand the basic knowledge of assisted reproductive technology
- To be able to explain to patients and their families regarding the different aspect of assisted reproductive technology
- To enable the candidate to handle the state-of-art equipment, its proper use and care
- To have the basic skills customized for the candidate to suit their specific needs
- To know the indications, contraindication, complications of different techniques of ART
- To have enough skill for starting their own practice of assisted reproductive technology
- To impart in-depth elucidation of all aspects of an IVF cycle including pre-treatment evaluation and testing, keeping in mind the ethical and economic implications of the treatment.
- Avail the opportunity to observe various treatment procedures both through live video feed and visits to the clinic and operating room for ultrasound scans, oocyte recovery and embryo transfer.
- The course is ideal for both beginners and established IVF practitioners in the IVF field who are looking to further enhance their skills.

### **Topics Covered during IVF training**

- Introduction to In vitro fertilization (IVF)
- Ultrasound folliculometry, urinary LH surge detection
- Investigation and management of infertility
- IUI, (AIH)
- IUI (Donor insemination)
- Hands on semen analysis, semen washing, sperm freezing

- Hands On Semen Preparation for intrauterine insemination (IUI)
- Tests for Ovarian reserve
- Different stimulation protocol and monitoring of controlled ovarian hyperstimulation
- Prevention of OHSS and its management
- Approaches to ovarian stimulation in PCO patients
- Role of Assisted reproductive technology (ART) in endometriosis
- Hands on Egg pick up, its protocol and trouble shoots
- Hands on culture dish preparation
- Gamete handling and insemination in embryology lab
- Hands on catheter loading of embryos and transfer using non gamete cells.
- Luteal support Protocols for thaw embryo transfer
- Basics of female neuroendocrine system, Understanding the hormones, Ovarian reserve
- Basics of infertility, Male infertility, History taking and investigations
- Ovulation induction in IUI, Secrets to success of IUI, Myths on IUI

## Semen analysis equipment /media, Semen preparation techniques, Hands on semen preparation

- Monitoring of stimulated cycles, TVS in infertility, USG hands on
- Agonists, Antagonists, Protocols for ivf cycles
- Ovum pick up, Equipment, Practical
- Embryo transfer, Lecture, Practical
- IVF/ICSI /Vitrification, Gametes handling /Media, Lab equipment's /maintenance
- Special conditions, Poor Responders, PCOS, Endometriosis, Certificates distribution
- Introduction & thirty years of IVF Approaches of recurrent implantation failures
- Investigations of infertility & indications for IVF Embryo transfer techniques
- Setting up an IVF laboratory Reduction of multiple pregnancies; Single embryo transfer

- Tests of ovarian reserve & stimulation protocols Luteal phase support
- Approaches to ovarian stimulation in patients with PCOS (Polycystic ovarian syndrome)
- Fertility preservation and cancer therapy
- Oocyte retrieval (OCR)
- Oocyte donation and surrogacy
- Management of poor responders Regulatory and ethical issues in ART today
- Prevention and management of OHSS (Ovarian hyperstimulation syndrome)  
Counselling infertile patients for various ART procedures

## **Course Fees of Fellowship in Assisted Reproductive Technologies**

**Course Fees of Fellowship in Assisted Reproductive Technologies is 2500 USD for Overseas candidate and 1,70,000 Rupees for Indian Candidates.**

Please note that living expenses (Food, Travel, Stationary, and Laundry etc.) are not covered in the course fee. There is no extra charge to utilize hospital resources like internet, IVF instruments, O.T. Dress, Library, Videos, CDs.

## **Evaluation and Certification**

At the end of the programme, candidate will receive Certificate of Fellowship in Assisted Reproductive Technologies

**At the end of the course, you will be:**

**Perform IUI procedure in a well-disciplined way at your clinic**

**Monitor your stimulations ultrasonologically (if you have basic ultrasound knowledge already)**

**Protocols for Frozen embryo transfer will be completely understood and can be practiced at your clinic**

**Do your own IVF stimulation**  
**(With the help of our consultants as well)**

**Challenges of IVF/ICSI stimulations will be known & the**  
**knowledge to prevent it or tackle it if it happens**

**Highlights:**

Key areas that will be covered:

1. Workup of a sub fertile male and female
2. Normal anatomy and endocrinology of the male and female partner
3. Medical and surgical treatment of the male
4. IUI stimulation and protocols
5. Recent advances in infertility
7. Basic embryology - theory and practical
8. Normal anatomy and endocrinology of the male and female partner
9. Medical and surgical treatment of the male