



## **Fellowship in Clinical Embryology at Seeds of Innocence**

### **Course Highlights**

- Duration: 12 months of in-depth, hands-on training.
- Eligibility: Candidates with M.Sc. in Clinical Embryology or equivalent life Sciences degree.
- Course Fee: ₹5.5 Lakhs + GST
- Seats Available: Limited to 2-3 per centre for personalized attention and Embryology training.
- Register Now to Start Your Journey in Embryology!

For more information or to apply, write to us at

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### **Why Pursue a Career in Embryology?**

- High Demand for Skilled Embryologists
- Lucrative Career Options
- Rapid Advancements
- Hands-On Learning

Embark on an extraordinary journey into the world of life sciences with our Fellowship in Clinical Embryology program. This transformative Experience is meticulously crafted to provide a comprehensive understanding of Reproductive sciences.



## **Why Embryology Matters:**

Embryology stands at the crossroads of biology and medicine, focusing on the development of organisms from the moment of fertilization until birth. It is a field of immense significance, driving advancements in reproductive health, Genetics, and assisted reproductive technologies (ART). Aspiring professionals seeking to explore this captivating field will find our Fellowship in Embryology to be the perfect gateway to pursue a rewarding career with endless possibilities.

## **Unparalleled Expertise:**

Our fellowship program brings together a distinguished faculty comprising renowned professionals and experts in embryology. Drawing from extensive experience, our faculty members are committed to providing exceptional guidance, ensuring that participants receive the highest quality education along with practical training experience with the most advanced and high-performance equipment that delivers results with the highest Precision.

## **Cutting-Edge Facilities:**

Immerse yourself in a dynamic learning environment equipped with state-of-the-art technology and facilities. Our institute is dedicated to offering hands-on experiences and practical training, fostering an environment where theoretical knowledge seamlessly integrates with highly compact and all-inclusive applications.



## **Tailored Curriculum:**

The curriculum of our Fellowship in Embryology is carefully curated to cover a comprehensive range of topics. From reproductive anatomy to gamete biology,

embryonic development, and the latest advancements in ART, our program ensures that participants are well-versed in every aspect of embryology. The curriculum is designed to evolve with the dynamic nature of the field, incorporating the latest research findings and technological breakthroughs.

## **Industry-Relevant Training:**

Practical skills are refined through internships and workshops conducted in our centres. By engaging with actual clinical scenarios and hands-on laboratory work, participants gain a profound understanding of the practical applications of embryological Principles. This industry-relevant training prepares them for the challenges and progressions in the field of embryology.



## Course Objectives

- Daily Lab Monitoring
- Key Performance Indicators
- How to Improve IUI Results
- How to Improve IVF/ICSI Results
- Troubleshooting
- Gadgets for Lab Monitoring (Demo)
- Internal Quality Assessment
- External Quality Audit
- Calibrations of all incubators -Instruments Quality control maintenance
- Lab Maintenance
- Media equilibration in aseptic conditions -Dish Preparation
- Record Keeping
- Semen preparation technique 15 each- Swim-Up and Density Gradient
- Minimum 50 OPU procedures to observe and assist
- Minimum 50 ICSI procedures to observe and assist
- IVF & ICSI practice on unfertilized oocytes
- Loading of Embryos in ET catheters
- Assist in dish preparation and other aspects of embryo transfer
- How to handle oocytes
- Semen Freezing & Thawing
- Embryo Freezing (Minimum 50 Procedures)
- Introduction to Sperm Function Test
- Introduction to Advanced Sperm Selection Techniques



- Introduction to Laser-Assisted Hatching
- Embryo Selection
- Trouble Shooting

## **Advanced micromanipulation**

- Making ICSI Safer
- Troubleshooting ICSI Scenarios
- Advanced Sperm Preparation
- Advanced Oocyte Micromanipulation
- DISH Preparation PICSi and Sperm Slow
- Hands-On PICSi
- Laser Assisted Hatching
- Hands-On Laser
- Time Lapse Embryo Assessment
- Introduction to Embryo Biopsy

Calibrations of all Incubators and Instruments Quality Control Maintenance.

- Trouble Shooting.
- Lab Maintenance.
- Media equilibration in aseptic conditions & Dish preparation.
- Record Keeping.
- Semen preparation technique ~ swim-up and density gradient.
- OPU procedures to observe & assist.
- ICSI procedures to observe and assist.
- Introduction to IVF/ICSI



- Loading of Embryos in ET catheters.
- Assist in dish preparation and other aspects of embryo transfer.
- How to handle oocytes.
- Semen Freezing and Thawing.
- Cryopreservation by verification –Embryo & oocyte freezing.
- Semen freezing

## **Lab setup: Important factors to consider**

- Incubator Management
- Choice of culture media and strategies: advantages and potential risks
- Hands-on Ovum pick-up screening
- Hands-on Sperm Preparation
- Oocyte Quality: Clinical parameters that affect it and what to do about it
- Ejaculate to Testicular Sperm: What can go wrong and what to do about it
- Assessment of Embryo Morphology
- Hands-on Dish preparation
- Hands-on Sperm Diagnostics
- When to do Day 3 and When to opt for Blastocyst Transfer
- How many Embryos to Transfer? Factors to consider?
- Hands-on Bead handling and introduction to verification
- Discussion: Strategies for using the available techniques and technologies
- Post Evaluation and Feedback



## **Indications for ICSI**

- Set up of Micro-Manipulator (Hands-On)
- Sperm Preparation for ICSI
- Sperm Preparation Hands On
- Oocyte Quality Analysis
- Dish Preparation
- ICSI Technical details
- Sperm Immobilization
- ICSI Hands On
- Embryo Assessment
- Embryo Loading and Transfer
- Post Evaluation and Feedbacks

## **Career Support:**

We understand that embarking on a new career path can be both exciting and challenging. Our institute provides dedicated career support services to guide participants through every step of their professional journey. From resume building to interview preparation, our career services are tailored to empower participants to achieve their career goals.

Participants undergo an in-depth exploration of theoretical concepts, laying a strong foundation in embryology. From the fundamentals of reproductive biology to advanced embryonic development, our curriculum covers a wide spectrum, ensuring a holistic understanding of the subject matter.



## **Practical Application:**

Theoretical knowledge is seamlessly integrated with hands-on experiences to bridge the gap between academia and practical application. Laboratory sessions, case studies, and simulations allow participants to apply their knowledge in real-world scenarios, enhancing their problem-solving skills and critical thinking abilities.

You will also have a strong understanding of the ethical issues and social implications of research in reproduction and Clinical Embryology and a strong CV for your future research or medical career.