Fellowship In Clinical Embryology at Seeds Of Innocence

Course Highlights

- **Duration: 12 months of in-depth, hands-on training.**
- **Eligibility: Candidates with an M.Sc. in Clinical Embryology or equivalent life sciences degree.**
- **Course Fee: ₹4.5 Lakhs + GST**
- **Seats Available: Limited to 2-3 per centre for personalised attention and embryology training.**
- **Register Now to Start Your Journey in Embryology!**
  For more information or to apply, write to us at
  anuradha.emb@seedsofinnocence.com

Why Pursue a Career in Embryology?

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

Fellowship in Clinical Embryology
About the course
Embark on an extraordinary journey into the world of life sciences with our prestigious "Fellowship in Embryology" program. This transformative experience is meticulously crafted to provide a comprehensive understanding of reproductive sciences. Established in the vibrant city of Bangalore, India, Medline Academics offers an unparalleled opportunity to explore the intricate world of embryology.

Introduction:

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.

Program Highlights:

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 on an online platform along with practical training experience with the most advanced and high-performance digital equipment that deliver 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 collaboration with leading fertility clinics and research institutions. 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 (Only Lectures)**
- **Key Performance Indicators**
- **How to Improve IUI Results**
- **How to Improve IVF/ICSI Results**
- **Troubleshooting**
- **Gadgets for Lab Monitoring (Demo)**
- **Internal Quality Assesment**
- **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**
- **Hands On**
- **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**
- **Demonstration of Embryo Biopsy**
- **Post Evaluation and Feedbacks**

- **Calibrations of all Incubators & 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 & Thawing.**
- **Cryopreservation by verification –Embryo & oocyte freezing.**
- **Semen freezing**

- **Introduction to the Course and Pre evaluation**
- **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 Feedbacks**

- **Course Curriculum**
- **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**
- **Sperm Freezing**
- **Hands on Sperm Freezing**
- **Technical aspects of Vitrification**
- **Quality control for vitrification: Important factors to consider**
- **Vitrification Demonstration**
- **Vitrification of embryos Hands On**
- **Thawing and Warming Hands On**
- **Vitrification of Oocytes**
- **Hands On Oocyte Vitrification and warming**
- **What to freeze and why ? How many Embryos to freeze? Factors to consider ?**
- **Single Sperm Cryopreservation**
- **Demonstration and Hands on Single sperm Cryopreservation.**
- **Post Evaluation and Feedbacks**

- **Sperm Freezing**
- **Hands on Sperm Freezing**
- **Technical aspects of Vitrification**
- **Quality control for vitrification: Important factors to consider**
- **Vitrification Demonstration**
- **Vitrification of embryos Hands On**
- **Thawing and Warming Hands On**
- **Vitrification of Oocytes**
- **Hands On Oocyte Vitrification and warming**
- **What to freeze and why ? How many Embryos to freeze? Factors to consider ?**
- **Single Sperm Cryopreservation**
- **Demonstration and Hands on Single sperm Cryopreservation.**
- **Post Evaluation and Feedbacks**

Embryo Biopsy (PGT, PGS, PGD) Hands on Course Curriculum

- **Introduction to PGT**
  Embryo biopsy
- **Lab Setup for PGT**
- **Demonstration of Medias and consumables: Discussion**
- **Day 3 vs Day 5 Embryo biopsy**
- **Demonstration**
- **Technical aspects of Embryo Biopsy**
- **Hands on Day 3 and Day 5 Biopsy**
- **Tubing**
- **Hands on Tubing**
- **Introduction to genomics**
- **Alternatives to PGT**
- **Post Evaluation and Feedback**

Networking Opportunities:

Building a strong professional network is integral to success in any field. Our institute facilitates networking events, conferences, and seminars that provide a

platform for collaboration and knowledge exchange. By connecting with fellow participants, faculty members, and industry professionals, participants not only enhance their learning experience but also open doors to future collaborations and career opportunities.

Why Choose Our Fellowship in Embryology?

Location Advantage:

Situated in the heart of Delhi, our institute benefits from its proximity to a thriving scientific community. Participants have easy access to cutting-edge research facilities, renowned hospitals, and state-of-the-art fertility clinics. The city's dynamic environment serves as an inspiring backdrop for academic and professional growth.

Global Recognition:

Our fellowship program adheres to international standards, ensuring that participants are equipped with knowledge and skills that transcend geographical boundaries. The program's global recognition opens doors to opportunities both nationally and internationally, providing participants with a competitive edge in the global job market.

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.

The Learning Experience:

Comprehensive Theoretical Knowledge:

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.

Research Opportunities:

For those inclined towards research, our institute provides opportunities to engage in cutting-edge research projects. Collaborate with faculty members and researchers to contribute to the expanding body of knowledge in embryology. Research experiences not only deepen participants' understanding of the subject but also position them as contributors to the field's advancement.

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.