



FELLOWSHIP IN EMBRYOLOGY

ABOUT MEDVARSITY

Asia's Largest Healthcare EdTech Company

Medvarsity is Asia's largest healthcare ed-tech company offering online and blended learning programs (Fellowship, Post-Graduate Programs and Certificate courses) for healthcare professionals. In the last five years, we have positively impacted the careers of over five lakh healthcare professionals across 192+ countries. We are a team of 300 high-energy professionals of which more than 120 team members have joined us in the last 12 months. Today, we cater to the requirements of both healthcare professionals as well as non-clinicians ensuring industry demand and skilled workforce are in a perfect state of equilibrium.

Medvarsity has won several accolades for contribution to healthcare education and healthcare technology. In 2022, Entrepreneur India and the Ministry of Electronic and Information Technology awarded us with the Best Ed-tech Deployment for higher education. In 2021, Medvarsity won Asia's Greatest Brands in education and ed-tech, an award by Asia One magazine. We are here to partner with you through that journey.



ALUMNI

5,00,000+ medical professionals trained and certified



COURSES

200+ courses in clinical, management and administration



PARTNERS

Global universities and industry leaders



PRESENCE

Students and partners from 190+ countries

Knowledge Changes Lives

FELLOWSHIP IN EMBRYOLOGY

The Fellowship in Embryology is a specialized course that allows you to comprehend and gain expertise in infertility treatment and understand the process of the formation and development of embryos.

This course provides you with a comprehensive overview of different assisted reproductive technologies for the treatment of infertility and embryo culture. It highlights the scientific evidence for the advancement in diagnosis and therapeutics in this fields.

In addition to providing you with exposure to the fertility department, this course will improve your ability to confidently handle cases in a clinical setting.

HOSPITAL PARTNER:



COURSE FEE

₹1,80,000 + GST

PROGRAM DETAILS

HIGHLIGHTS

- 6-month contact program in a leading corporate hospital.
- Fellowship course with accreditation certified by Apollo Fertility.
- Learn clinical skills and hands-on techniques with internships.
- Training in medical and surgical emergencies in a systematic manner.
- Guidance by lead doctors and industry leaders.

CERTIFICATION

- Each module is followed by an online test
- On completing the course, contact program and passing final assessment, the student will be awarded a Fellowship in Embryology.

ELIGIBILITY

- Healthcare professionals willing to study the field of reproduction or clinical embryology.
 - Students who completed certificate and advance certificate course in embryology.
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COURSE OUTLINE

Module 1: ART and Immunology

- Introduction, Immunological testing, and treatment
- Endometrial Immune Profiling
- Primary Immunodeficiency Considerations and ART, Altered immunological Status in Offspring

Module 2: Epigenetics and ART

- Epigenetics In Infertility
- Epigenetics in Human Assisted Reproduction

Module 3: Preimplantation Genetic Testing Laboratory

- Reproductive genomics
- Genetic history and counseling in the infertile/sterile couple
- Techniques in Genomic analysis and analysis of variants
- Computational prediction & Clinical application tools
- PGT – monogenic disorders and carrier screening/PGT – M/PGD

COURSE

OUTLINE

- PGT – chromosomal abnormalities & rearrangements/PGT-A/PGS
- Embryo biopsy for preimplantation genetic testing/
Post-biopsy embryo development
- Repeated implantation failure (RIF) -Genetic causes;
Application of PGT – A in Repeated implantation failure (RIF)

Module 4: Genomic Imprinting in ART

- Epigenetics and Genomic Imprinting in Human Assisted Reproduction
- Risk of imprinting-related disorders – Female infertility and reproductive technologies

Module 5: Multiplication of Embryos and Gametes

- Embryo cloning without programming
- Embryo cloning with programming
- Nuclear transfer methodology
- Applications and efficiency of the nuclear transfer
- Gamete multiplication: Parthenogenesis

COURSE OUTLINE

Module 6: Third party Reproduction

- Egg Donation
- Donor insemination / Sperm donation
- Sperm storage
- Embryo donation
- Gestational surrogacy

Module 7: Legal, Regulatory and Ethical Considerations of Assisted Human Reproduction-INDIAN CONTEXT

- Bioethical aspects – Application of Assisted Human Reproduction
- Moral implications
Current Legislation in India (2021) on ART

COURSE OUTLINE

Module 8: COVID -19 and ART

- Introduction and Impact on ART
- State of assisted reproduction technology in the COVID 19 era and consequences on the human reproductive system
- Repercussions and Individualized Clinical Management

Module 9: Latest advances

- Artificial intelligence
- Microfluidics in Assisted reproductive technology
- Proteomics as a Tool for Improving IVF Outcomes in the Future
- Stem cells: Artificial gamete and embryo generation
- Ethical pros and cons of stem cell-derived gametes
- Nanoparticles in Infertility treatment
- Nanotechnology in ART



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