



# WORLD INFERTILITY AND IVF CENTRE



**CERTIFICATE QUALITY TRAINING  
COURSES IN  
REPRODUCTIVE MEDICINE AND IVF**

***PREMIUM DESTINATION FOR IVF AND REPRODUCTIVE SCIENCES***

# About

WORLD INFERTILITY & IVF CENTRE is leading IVF Centre catering Indian and International patients aspiring IVF treatments and Surrogacy. It is a beacon of light for childless couples from India and abroad. We are the best provider of IVF training to Doctors from India & abroad through training arm "World IVF Institute of Reproductive Sciences".

World IVF is the only Centre established on International Standards that works not only on IVF and other Reproductive techniques but also various methodologies which significantly increases chances of natural conception itself.

At World IVF Centre, Our mission is to ensure world class best reproductive treatment should be available to every childless couple through the best in class facilities at a single window.

World IVF Institute of Reproductive Sciences (WIRS) is the training division of World IVF Centre, a pioneer Super Speciality Centre at Delhi. We are one of the best IVF Centre in India where patients from India and abroad come for IVF treatments and Surrogacy. We are not only helping childless couples for having their baby, but also providing IVF training to Doctors from India & abroad through training arm "World IVF Institute of Reproductive Sciences".

It is important to note that there is a serious shortfall of doctors who specialize into Reproductive Sciences and that is the main reason why the benefits of Assisted Reproductive Technique (ART) can't be reaped by a vast majority of our population.

World IVF Institute of Reproductive Sciences (WIRIS) is a STEP in imparting the doctors specialized knowledge in IVF, to enable them to help childless couples in places far and wide, and every corner of India and abroad. Being one of the leading IVF Centre in India, doctors who come to train with us get hands on experience. Our mission is to ensure that the best of treatment is available to every childless couple through the doctors trained by us.

Efficiency, skill and speed coupled with precision and gentleness are the ideal requirements of a successful IVF specialist & embryologist. In the learning curve, there are multitudes of essentialities to which an embryologist is exposed to; the one of utmost importance is "Actual hands-on training" – on a one to one basis. In WRIS, an actual Working Laboratory like atmosphere and gadgets like stereo zoom microscopes and Manipulators, all provide the candidate with the utmost training facilities.

The concept of "hands on", "one to one training" and ample assistance from the training faculty offer maximum opportunity to the candidate to sharpen his skills. The flexibility in the training courses cater to the individual's specific needs, and hence are made available as "Introductory", "beginners" or "Advanced". All hands on sessions will be preceded by a thorough theory lecture relating to the functioning, handling and subsequent maintenance of that specific gadget, to help the candidate make the gadget more users friendly.

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## **OUR TEAM**

### **ADVISORY BOARD**

Dr. Bindu Garg, CHAIRMAN - Head of the Department, Reproductive Science  
Dr. Himanshu Garg, DIRECTOR – World Infertility & IVF Centre

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### **EMBRYOLOGY TEAM**

Dr. Sushma Ved, Sr. Embryologist – Head of the department  
Mr. Anil Sharma, Sr. Embryologist  
Mr. Gaurav Panwar, Sr. Embryologist

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### **INFERTILITY SPECIALIST**

Dr. Rupali Bassi, Sr. Infertility specialist  
Dr. Priya Varshney, Sr. Infertility specialist  
Dr. Neha Gupta, Sr. Infertility specialist

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### **LAPAROSCOPIC SPECIALIST**

Dr. Vishakha Munjal, Sr. Laparoscopic Surgeon

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### **ULTRASONOLOGIST**

Dr. Rajbeer Singh, Sr. Ultrasonologist

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### **ANAESTHETIC**

Dr. Tarun Aggarwal, Sr. Anaesthetic

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### **PATHOLOGIST**

Dr. T.K. Mohanty, Sr. Pathologist

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### **TRAINING MANAGER**

Dr. Pankhuri Garg

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### **Course Coordinator**

Dr. Chetan Sharma

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### **Infertility Management Training**

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|----------------------------------|-------------|
| Course Duration                  | 14 Days     |
| Course Fees (For Nationals)      | Rs.1,00,000 |
| Course Fees (For Internationals) | USD 3100    |

**Objective:** It gives an in-depth understanding of all aspects of an In-Vitro Fertilization (IVF) cycle, from pre-treatment evaluation and testing, through the entire treatment path, and into planning for future cycles. It also explores the ethical and economical implications of treatment today.

|                                                                                                                                         |                                      |                                        |                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Basic of Endoscopic Surgery, Instrumentation & electrocoagulation.                                                                      | Tubal factor review                  | Patient counselling.                   | Live demonstration of operative hysteroscopy for submucous myomas, polyps, intrauterine adhesions, uterine septa, Cornual canulation etc. |
| Setting up of a Laparoscopy Unit.                                                                                                       | Hysteroscopy.                        | Introduction to ovulation.             | Technique of Endo suturing.                                                                                                               |
| Sterilization and Maintenance of Instruments & Equipments.                                                                              | Set up of IUI and IVF lab            | Endocrinology of ovulation.            | Training on Pelvic trainers                                                                                                               |
| Documentation, storage of data and Presentation.                                                                                        | Visit to embryology lab.             | Stimulation protocols for IUI/IVF.     | Infertility – Work up                                                                                                                     |
| Role of Endoscopy in Infertility.                                                                                                       | Consent forms & documentation.       | USG in infertility.                    | Equipments and supplies used in an IVF laboratory                                                                                         |
| Trouble shooting & Complication in endoscopic surgery.                                                                                  | Preparation of dishes for IVF cases. | IUI lab procedures.                    | Pre IVF&ICSI investigations                                                                                                               |
| To know the indications, contraindications & limitations of Laparoscopic surgery.                                                       | Observing IVF procedures.            | IUI Laboratory equipments.             | Various ovarian stimulation protocols (COHS)                                                                                              |
| Infertility history taking                                                                                                              | Oocyte retrieval.                    | Freezing protocols for semen           | Performing trans vaginal ultrasonography/follicular monitoring                                                                            |
| Anaesthesia in endoscopy.                                                                                                               | Oocyte assessment.                   | Embryo loading                         |                                                                                                                                           |
| Live demonstration of operative laparoscopy for various procedures like Fibroids, Ovarian tumours, Pelvic adhesions, endometriosis etc. | Sperm preparation for IVF            | Embryo cleavage stage cryopreservation | Management of OHSS and oocyte retrieval (pick-up)                                                                                         |
|                                                                                                                                         | Understanding IVF failures.          | Embryo Thawing                         | Micromanipulators: components and mechanics                                                                                               |
| Fertilization check                                                                                                                     | Egg donation                         | Blastocyst Vitrification & Thawing     | Tailoring protocols as per patient needs                                                                                                  |
| Embryo culture                                                                                                                          | Surrogacy                            | Embryo Transfer                        |                                                                                                                                           |
| Embryo scoring                                                                                                                          | Patient examination                  | TESA/ MESA / PESA                      | Adjuvant drugs used in ART                                                                                                                |
| Embryo donation                                                                                                                         | Patient selection criteria           | Record keeping / Data managing.        | Frozen Embryo Transfer                                                                                                                    |
|                                                                                                                                         |                                      | .                                      |                                                                                                                                           |

**BASIC COURSE IN ART,  
IUI, SEMENOLOGY, SPERM PRESERVATION AND STIMULATION  
PROTOCOL**

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|----------------------------|------------|
| COURSE DURATION            | 5 DAYS     |
| COURSE FEE (NATIONAL)      | INR 50,000 |
| COURSE FEE (INTERNATIONAL) | USD 1500   |

**OBJECTIVE:** IDEAL FOR BEGINNERS. PROVIDES AN INSIGHT TO ANDROLOGY. HELPS TO UNDERSTAND SPERM PER SE AND SPERM PROCESSING TECHNIQUES FOR VARIOUS ART PROCEDURES.

THIS MODULE AIMS AT PROVIDING BASIC TO ADVANCED KNOWLEDGE IN SEMENOLOGY AND SPERM PREPARATION TECHNIQUES, GUIDED HANDS ON WILL AID THE CANDIDATE TO UNDERSTAND & CONFIDENTLY PERFORM THE SAME.

**MODULE:**

| Theory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Live class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <ol style="list-style-type: none"> <li>1. STIMULATION PROTOCOLS AND MONITORING, SEMEN PREPARATION TECHNIQUES AND INSEMINATION TECHNIQUES</li> <li>2. OVERVIEW OF MALE AND FEMALE INFERTILITY</li> <li>3. INVESTIGATIONS RELATED TO INFERTILITY</li> <li>4. INTRA UTERINE INSEMINATION TECHNIQUES</li> <li>5. METHOD OF COLLECTION AND DELIVERY OF SEMEN SAMPLE</li> <li>6. ROUTINE SEMEN ANALYSIS</li> <li>7. MICROSCOPIC EXAMINATION FOR COUNT AND MOTILITY</li> <li>8. MORPHOLOGY ESTIMATION ACCORDING TO WHO &amp; KRUGER'S STRICT CRITERION</li> <li>9. OPTIONAL TEST LIKE SPERM CHROMATIN ASSAY, ROS ESTIMATION, ESTIMATION OF ZINC, ANTI SPERM ANTIBODIES ETC</li> <li>10. SAFETY GUIDELINES FOR ANDROLOGY LABORATORY</li> <li>11. ADVANCED TESTS LIKE HYPO OSMOTIC SWELLING TEST, VITAL STAINING, AND FRUCTOSE ESTIMATION.</li> <li>12. PRE ASSESSMENT FORM</li> <li>13. PATIENT SELECTION &amp; COUNSELLING</li> <li>14. INTRODUCTION TO OVULATION, ENDOCRINOLOGY OF OVULATION AND OVULTATION INDUCTION FOR IUI</li> <li>15. DISORDERS OF OVULATION &amp; MANAGING PCOD</li> <li>16. THYROID &amp; OVULATION PROLACTIN &amp; OVULATION</li> <li>17. PRINCIPLE OF CRYO PRESERVATION</li> <li>18. PRACTICAL SPERM CRYO PRESERVATION</li> <li>19. SETTING UP AN IUI LAB</li> <li>20. CULTURE MEDIAS, CANNULAS AND CO2 INCUBATORS FOR IUI</li> <li>21. SPERM BANKING</li> <li>22. ASSISTED REPRO DUCTIVE TECHNIQUES</li> <li>23. POST ASSESSMENT FORMS</li> <li>24. OOCYTE INSEMINATION MONITORING TECHNIQUES</li> <li>25. LAB CARE AND MAINTENANCE</li> <li>26. INFERTILITY – WORK UP</li> </ol> | <ol style="list-style-type: none"> <li>1. SPERM ANALYSIS-LIVE</li> <li>2. PRACTICE HANDLING OF EQUIPMENT, ASEPTIC TECHNIQUES, ALIQUOTING OF MEDIA</li> <li>3. DEMO ON HANDLING OF SEMEN SAMPLE (COUNT, MOTILITY ETC.)</li> <li>4. PRACTICE ON HANDLING OF SEMEN SAMPLE USING MAKLER CHAMBER</li> <li>5. HANDS ON MONITORING OF OVULATION</li> <li>6. HANDS ON SPERM WASHING</li> <li>7. PRACTICAL DEMONSTRATION OF IUI</li> <li>8. HANDS ON IUI</li> <li>9. DEMONSTRATION OF OVA ASPIRATION &amp; ICSI</li> <li>10. PRACTICE SPERM PREPARATION TECHNIQUES(DENSITY GRADIENT &amp; SWIMUP METHODS)</li> <li>11. DEMO ON SPERM FREEZING AND THAWING TECHNIQUES</li> <li>12. DEMO ON SPERM PREPARATION TECHNIQUES(DENSITY GRADIENT &amp; SWIMUP METHODS)</li> <li>13. LIVE ULTRASOUND MONITORING OF OVULATION</li> <li>14. DEMONSTRATION OF SPERM WASHING TECHNIQUES</li> </ol> |

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| 27. FOLLICULAR MONITORING.<br>28. SEMEN WASHING TECHNIQUE.<br>29. DONOR SPERM INSEMINATION.<br>30. INTERACTIVE SESSION WITH FACULTY INCLUDING CASE PRESENTATIONS & PROBLEM CASES.<br>31. ETHICS & DOCUMENTATION<br>32. MANAGING OLIGOSPERMIA |  |
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## Embryology Training

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|----------------------------------|-------------|
| Course Duration                  | 10 Days     |
| Course Fees (For Nationals)      | Rs.1,00,000 |
| Course Fees (For Internationals) | USD 3100    |

**Objective:** Complete Embryology training provides a detailed overview of all aspects of the ART laboratory, including the set-up and running of the lab, specific procedures, and quality control to ensure the highest possible success rates in an IVF program.

### Modules:

|                                                                                  |                                                                                                                  |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Complete Semen analysis(according to who criteria) and sperm preparation for IUI | Sterile lab techniques                                                                                           |
| Culture media                                                                    | Day 3 and Day 5 embryo transfers                                                                                 |
| Handling of oocyte under stereo zoom microscope and insemination with sperms     | Setting up of inverted microscope and micro manipulator system for performing ICSI                               |
| Denuding eggs                                                                    | doing microinjection (IVF and ICSI hands-on)                                                                     |
| Single culture and group culture                                                 |                                                                                                                  |
| Embryo transfer techniques                                                       | Vitrification using cryloop and cryotop method                                                                   |
| ICSI dish preparation                                                            | MESA                                                                                                             |
| Advice regarding setting up of IUI and IVF lab                                   | doing microinjection (IVF- ICSI hands-on),                                                                       |
| Sperm Freezing & Embryo freezing                                                 | embryo transfer techniques                                                                                       |
| PESA                                                                             | Sperm Freezing                                                                                                   |
| Testicular Biopsy                                                                | pronuclear stage observation                                                                                     |
| IVF Lab. Basics                                                                  | sperm preparation for IVF & ICSI                                                                                 |
| preparation of culture dishes for IVF and ICSI (with and without oil overlay),   | Embryo freezing( 2PN& cell stage)<br>Vitrification of oocyte and Embryos (Cryoloop and Medicult cryoleaf Method) |

## Hands on Advanced Assisted Reproduction Techniques

|                                  |             |
|----------------------------------|-------------|
| Course Duration                  | 1 Month     |
| Course Fees (For Nationals)      | Rs.2,00,000 |
| Course Fees (For Internationals) | USD 6000    |

### Course objectives:

This course provides a one-on-one comprehensive training in the clinical management, high complexity techniques in a Laboratory and laboratory practices of IVF and ICSI. It will develop knowledge and skills in all aspects of micromanipulation for ICSI. The syllabus covers the following areas:

|                                                                                              |                                                                                    |                                                                                                                                            |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Basic anatomy and physiology of male and female reproductive system                          | Storage and Use of gametes                                                         | Ovum pick up and Embryo transfer                                                                                                           |
| Introduction & history of IVF                                                                | Ovulation Induction & Stimulation Protocols                                        | Male infertility and female infertility investigations                                                                                     |
| Indications for IVF                                                                          | Follicle Monitoring                                                                | Semen Analysis & Preparation                                                                                                               |
| Applied Pharmacology, Biochemistry and Pathology of the male and female reproductive system. | Research Methodology                                                               | Medical statistics                                                                                                                         |
| Endocrinology of the reproductive system                                                     | Writing and presenting a paper                                                     | Ovulation Induction                                                                                                                        |
| Ultra-sonography in reproductive medicine                                                    | Safety issue in ART including OHSS and multiple pregnancies                        | Monitoring of Ovulation                                                                                                                    |
| Endoscopic surgery, both Hysteroscopy and Laparoscopy                                        | Basic Embryology                                                                   | Intrauterine insemination                                                                                                                  |
| Diagnosis of male and female infertility                                                     | Exposure to Laboratory techniques in ART                                           | Controlled Ovarian Stimulation                                                                                                             |
| Sperm counting                                                                               | selecting ideal protocol                                                           | Hands on experience with ovum pick up                                                                                                      |
| Semen processing for IUI/IVF/ICSI/retrieved sperm                                            | Trained to identify OCC                                                            | Experience to handle unfertile embryos                                                                                                     |
| Hands on IUI<br>Cryopreservation of sperm & embryo & eggs                                    | How to do ET, embryo loading experience, freezing, thawing & vitrification process | Infertility related USG<br>Ovulation, COH monitoring, Color Doppler, Pulse Doppler studying, early pregnancy, Targetted USG, Color Doppler |

|                                                                                       |                                                                                                                                                                                                 |                                                                     |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Thawing – sperm banking                                                               | OPD<br>How to take history, which investigations why, how to convince patient for IVF/ICSI, cost effective IVF will be trained on patients and with patients, patient counseling-in failed case |                                                                     |
| Setting up of IVF Lab                                                                 | Stress management for couples undergoing ART                                                                                                                                                    | Luteal phase support                                                |
| Approaches to ovarian stimulation in patients with PCOS (Polycystic ovarian syndrome) | Prevention and management of OHSS (Ovarian hyper stimulation syndrome)                                                                                                                          | Counseling infertile patients for various ART procedures            |
| Ovum Pickup Observation                                                               | Types of media, media handling, aliquoting and subsequent storage                                                                                                                               | Oocyte and embryo handling transfer between the droplets and dishes |
| Catheter loading for IUI and embryo transfer                                          | Embryo transfer techniques                                                                                                                                                                      | Approaches of recurrent implantation failures                       |
| Reduction of multiple pregnancies, Single embryo transfer                             | Oocyte donation and surrogacy                                                                                                                                                                   | Regulatory and ethical issues in ART today                          |
|                                                                                       |                                                                                                                                                                                                 |                                                                     |

### **ADDRESS**

**WORLD INFERTILITY AND IVF CENTRE**  
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 Telephone: +91-11 41835511

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 Visit us [http: www.worldivfcentre.com](http://www.worldivfcentre.com)