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MOMSOON Academy

EQUIP AND STEP INTO THE ENIGMATIC ARENA OF INFERTILITY TREATMENT

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INTENSIVE CERTIFICATE COURSE IN CLINICAL EMBRYOLOGY & ART

Eligibility: B.Sc. (Life Science) / M.Sc. (Life Science) / M.B.B.S
Duration: 96 hours / 12 days
Training methodology

Theory - Candidates will be provided with access to online content enabling them to gain knowledge prior to hands - on training.
Practical - Candidates will get sufficient hands - on training in all andrology and embryology lab procedures and will also be provided with plenty of mouse oocytes and injection pipettes to make sure that they become proficient with microinjection technique.

Each participant will receive Course Syllabus with Reading Material and Lab Protocols Certificate of Completion (reporting the Grade) after due assessment.

CURRICULUM

PART A
Module 1 - Infertility
Module 2 - ART
Module 3 - Role of an Embryologist
Module 4 - Sperm
Module 5 - Microscopy
Module 6 - Semen collection
Module 7 - Semen analysis
Module 8 - Semen preparation for ART procedures

PART B
Module 1 - Introduction to cryopreservation
Module 2 - Cryopreservation of human spermatozoa
Module 3 - Handling and thawing of frozen semen
Module 4 - Cryopreservation of oocytes and embryos
Module 5 - Handling and thawing of frozen oocytes and embryos

PART C
Module 1 -Introduction to IVF
Module 2 - Different culture medium used for IVF.
Module 3 - Protocol for preparation of culture medium and dishes for oocyte identification, fertilization and culture
Module 4 - Oocyte selection
Module 5 - Embryo scoring
Module 6 - Embryo culture
Module 7 - Embryo loading

PART D
Module 1 - ICSI
Module 2 -Micromanipulation workstation system
Module 3 - Media and other consumables for ICSI
Module 4 - Preparation of spermatozoa for micromanipulation
Module 5 - Preparation of oocytes for micromanipulation
Module 6 - Performing sperm injection procedure

TRAINING PROGRAM

Candidates will learn the following through demonstration and hands - on training sessions

DAY	SESSION 1	SESSION 2
PART 1: SEMEN ANALYSIS & SEMEN PREPARATION FOR ART PROCEDURES		
1	Microscopy	Semen analysis
2	Semen analysis	Semen analysis
3	Semen preparation for ART procedures	Semen preparation for ART procedures
PART 2: CRYOPRESERVATION		
4	Cryopreservation of spermatozoa	Cryopreservation of spermatozoa
5	Vitrification of oocytes / embryos	Vitrification of oocytes / embryos
PART 3: INVITRO FERTILIZATION (IVF)		
6	Oocyte identification and fertilization	Embryo culture
PART 4: INTRACYTOPLASMIC SPERM INJECTION (ICSI)		
7	Setting up the micromanipulation system	Preparing media and dishes for ICSI
8	Preparing spermatozoa for micromanipulation	Manipulation of spermatozoa
9	Manipulation of spermatozoa	Preparing oocytes for micromanipulation
10	Performing ICSI	Performing ICSI
11	Performing ICSI	Performing ICSI
12	Evaluation Practical skill test Interactive session & review of training Feedback from candidates Award of training certificate	

EVALUATION OF TRAINEE:

The performance of the trainee will be reflected in a Grading Report. The grading methodology is as follows:

Sl	Components	%	Methodology
1	Theoretical knowledge	40%	Multiple choice questions linked to the course module
2	Practical skills	60%	Tested on lab techniques taught during the training

Candidates who successfully complete the course work will be awarded the Training Certificate