

Syllabus/Curriculum for ICOG Certification course in Reproductive Medicine

OBJECTIVE

The objective of this course is to make, the candidate would be clinically competent in reproductive endocrinology and management of sub-fertility in both male and female. At the end of the course, the candidate would have gained knowledge in the aetiology, evaluation and treatment of these disorders.

1. baseline ultrasound,
2. stimulation protocols for ART and Non-ART cycles, choosing the best treatment options (OI with timed intercourse, IUI or ART),
3. identifying and treatment of complications related to the treatment offered for sub-fertility,
4. interpretation of HSG, SIS, endoscopy and other investigations related to diagnosis and treatment of reproductive problem, diagnosis and management of early pregnancy.
5. The candidate would also learn about the ICMR Guidelines , PCPNDT and record keeping related to infertility management.
6. Counselling

ENTRANCE TO THE 6 MONTHS ICOG CERTIFICATE COURSE IN REPRODUCTIVE MEDICINE

- Applications for ICOG Certificate course in Reproductive Medicine should be submitted to the ICOG RM training centres at least one month prior to starting of the course, which starts in January and July
- Forms submitted after that will be considered for the next batch.
- The centre will conduct a virtual interview with the candidate involving a written test with viva voice or viva voice alone about the subject.
- After the interview the candidate selection will occur on merit and this selection should be intimated to the ICOG office

- The selected candidates will need to furnish necessary documents and fees directly to the ICOG office before the commencement of the course. No fees is payable to the centre directly.

EXAMINATION

- A mock examination will be held at the centre, where he or she is pursuing the course, by the centre head, in the first week of 6th Month. Results will be shared to the office by the centre heads.
- The Logbook will be checked by the centre head and the cases written verified
- Final exams will be held after completion of 6 months of the training, which will include a theory and practical exam
- The theory exam will include 50 MCQs and 10 short questions . (Will be online till the pandemic is over and will include 100 MCQs)
- The practical examination will include case presentation, viva (HSG and ultrasound pictures, drugs, endoscopy instruments and consumables used in the OPD, andrology and embryology lab).
- The logbook will be marked for 20 marks
- Mock exam held at the centre in month 6 of training will carry 20 marks
- Marks out of 10 will be given for case presentations during the online lecture series, which will be added to the final examination marks
- The passing percentage for the certificate course will be 70%

Marks - 100 Theory + 100 Practical's + 20 marks log book + 20 marks mock exam + 10 marks for case presentation

Curriculum Month wise

Theory	Practical
MONTH 1	
Physiology of Menstrual & ovarian cycles	Observe history taking examination,

	baseline scan and counselling of new and follow up patients
Spermatogenesis, ejaculation & spermatozoa	Orientation of USG machine with various functions of the keys and observing follicular tracking
Aetiology, evaluation and investigations of female sub-fertility	Get orientation about IVF and IUI lab layout & knowledge about consumables & equipment used in IUI and andrology
Aetiology, evaluation and investigations of male sub-fertility	Layout of OT for hystero-laparoscopy various instruments and equipment's required Different distention media used in hysteroscopy
	Gain knowledge about the PCPNDT and consent forms related to reproductive medicine
Ovarian Reserve testing and prediction of response	Start taking history and prepare case for presentation to faculty Start using USG under supervision for follicular tracking (registration with PCPNDT is mandatory)
MONTH 2	
Treatment of male factor sub-fertility	Learn decision making for treatment modality of sub- fertile couple
Overview of treatment for female factor sub-fertility	Learn selection of OI Protocols for Non-ART cycles and its nuances
Ovulation induction drugs and protocols	Learn selection of OI protocols for ART cycles
Unexplained Infertility	Assist for hysteroscopies
Endometriosis – Diagnosis, management and implications of on infertility	Main focus on andrology which includes <ul style="list-style-type: none"> • Semen Analysis

	<ul style="list-style-type: none"> Intrauterine Insemination and sperm preparation techniques
Impact of adenomyosis on fertility and its management	Daily cleaning and maintenance of andrology laboratory
Fibroid Uterus and Sub-fertility	Observe OPU
Mullerian anomalies and sub-fertility	Visit embryology lab after OPU and see how it functions
Polycystic ovarian disease – Evaluation & management	
MONTH 3	
Premature Ovarian Insufficiency	Observation and assessment of reports related to tubal and uterine evaluation by 3D USG, HSG and SSG
Genetics of Infertility	IUI cycle management
Immune factors in fertility	Perform IUI under supervision
Fertility Preservation in cancer patients	Observe OPU and ET
OI in cancer patients	Observe basic embryology procedures
Epigenetics in Infertility	
Recurrent pregnancy loss – Evaluation & management	
MONTH 4	
Assisted Conception	Cycle management - Choosing Protocol for ART patients under supervision of consultant and follow up of the patients for follicular tracking, trigger, ART procedure, embryo transfer and testing for pregnancy
Uterine Receptivity	Preparing for FET cycles Preparing recipient for oocyte donation cycles
Endometrial blastocyst interaction for Implantation	Assist Hysteroscopy
Recurrent implantation failure	Mock Transfer

Complications of ART & its management	Assisting in OPU
Monitoring & treatment of early pregnancy after ART treatment	Abdominal USG for ET
MONTH 5	
Embryology	Observing early pregnancy scans
Cryopreservation – semen, oocytes, embryos	Knowing all forms for IVF / ICSI / 3 rd party reproduction
Setting up of an ART Lab and equipment's required for setting an ART Lab	Learning selection criteria for oocyte and sperm donors surrogate
Quality Assurance & quality control in ART laboratory	Semen and oocyte banking
Success rate with different treatment modalities for infertility	Observation in IVF lab <ul style="list-style-type: none"> • Dish preparation • Cryopreservation of embryos, oocytes and sperms • Advanced procedures like laser hatching, embryo biopsy
Third party reproduction - Oocyte donation, Sperm Donation, Embryo donation and surrogacy	Revisit knowledge on all forms that need to be filled and consent taken for IUI, IVF, ICSI, PGT, sperm donation, oocyte donation, surrogacy and embryo donation
Ethical aspects of infertility management	
MONTH 6	
Medicolegal aspects of ART and ICMR guidelines	Critical Analysis of IUI and IVF results
Publishing Scientific Articles	Case presentation from logbook
Interpreting original articles, systematic reviews and meta-analysis"	Endoscopy Instruments
Discussion of the study given to them with preparation of the paper for publication	IUI and IVF Lab consumables
Answering of queries if any during the theory class or at the centre	