

Syllabus for Certificate course in Gynaecological Endoscopy & Minimal Access Surgery with ICOG ~ FOGSI

Objective

1. to have a complete knowledge of the subjects, enhance their skills to a level to actually be able to perform simple to moderately advanced Gynaecological Endoscopic Surgery systematically in a center which is properly equipped with the infrastructure of instruments & equipments for safe Endoscopic Surgery.
2. Centers of excellence in Endoscopic Surgery backed up by adequate teaching personnel, Audiovisual facilities, library of Books, DVD's of high educational value, with inanimate lab, pelvitrainer, hysterotrainer, Endosuturing & knotting, dry lab along with a good number of Live Gyn. Endoscopic surgery to give full exposure to the person keen to have the training.

The candidate at the end of the training will acquire skill, full knowledge of advanced technology & shall be able to:

1. Perform basic to moderate level of Gynaecological Endoscopy & Minimal Access Surgery pertaining to his/her field of speciality.
2. Adapt various technologies of minimal invasive therapy that supplement each other and act together to decrease patient morbidity.

3. Perform safe laparoscopic, hysteroscopic & minimal access surgeries.
4. Appreciate the benefits, limitations and complications of the newer techniques.
5. Be aware of various instruments ~ equipments and their applications that are coming into vogue in the field of minimal invasive surgery.
6. Detect and manage complications that may occur with these types of surgeries.
7. Practice, ethical and evidence based medicine.
8. Develop communication skills to present papers, lectures etc. at various platforms.
9. Physiological & Kinetic changes associated with Pneumoperitonium for short or long duration needed for Laparoscopic Surgery & also the changes related to uterine distension media for Hysteroscopic surgery.
10. Basic knowledge of the anaesthesia & multiparameter monitoring related to basic to Advanced laparoscopic & hysteroscopic surgery.
11. Role of diagnostic Laparoscopy, Microlaparoscopy, Hysteroscopy, Microhysteroscopy & contact Hysteroscopy or Gynaecological pathologies & conditions which are correctable by Laparoscopy along with Intrauterine pregnancy like Ovarian Cyst, concurrent ectopic pregnancy, Appendicectomy etc.

conserving uterine pregnancy & reducing chances of abortion.

12. A comprehensive details of pathologies correctable by Endoscopic Surgery like Endometriosis, Fibroids and Adhesions etc.

13. A complete knowledge of all instruments & equipments used for laparoscopic & hysteroscopic surgery along with proper sterilization, proper usage & proper maintenance of the same for effective & continuous functioning for safety.

14. A complete knowledge of Electrocautery & Electrosurgery, the new energy sources, vessel sealing devices, harmonic scalpel, lasers along with surgical or technical risks, complications & management of the same.

15. A full working knowledge of alternative procedures for endometrial ablation, thermal balloon techniques etc.

16. Two work station regularly available for Laparoscopic inanimate exercises, Hysterotrainer, Endosuturing lab. Given at discretion of Teacher. Adequate amount of hours of training & practice should be filled in a log book signed & supervised by the teacher.

17. A thorough clinical evaluation with adequate sonographic & hormonal assay levels for clinical correlation to give proper treatment to the patient.

18. After 6 – 8 weeks of exposure to Live surgery, adequate knowledge & reading the trainee will scrub

with the teaching personnel as second & later first assisting surgeon to get hands on tissue feeling & confidence to operate independently later.

19. A log book with proper record of full management of Laparoscopic & Hysteroscopic surgical cases which includes 60 cases in total.

20. A complete knowledge with literature data & centers own data for Fertility Enhancing Endoscopic Surgery & also when not to do Endoscopic Surgery for a given patient.

21. One subject can be taken by the delegate as a research activity or a comparative data analysis related to Laparoscopic or Hysteroscopic surgery or MIS in SUI/Prolapse.

22. A proper knowledge & live surgery observation of Laparoscopic & alternative methods of treatment of stress urinary Incontinence & prolapse & pelvic floor defect.

23. Experience & expertise in Endoscopic, minimal access & open surgery for various Gynaecological pathology & conditions affecting Women's health.

24. A proper knowledge with complete hands on experience of Laparoscopic sterilization with fallope rings & also cases with bipolar coagulation with small tubal segment excision confirmed on Histopathology & also video recorded.

25. Experience & knowledge of medicolegal & Ethical aspects of Gynaecological Endoscopic & Minimal Access Surgery.

26. Research, statistics & audit of success, morbidity & mortality if any.

27. Role & place of laparoscopic Microsurgery theoretical, practical & comparative knowledge with skill enhancement.

28. Optimum knowledge of crisis management in Gynaecological Endoscopic & Minimal Access Surgery.

29. Adequate knowledge to interact, discuss and learn from teachers, colleagues on all finer aspects of Gynaecological laparoscopic surgery.

30. Full details of post Endoscopic surgical care, follow-up advice.

31. Knowledge of future technology like Robotic surgery, NOTES, Telemedicine.

32. The trainee on finishing a 6 months phased course in Gynaecological Endoscopic & Minimal Access Surgery apart from getting the Certificate continues to expand further.

33. The trainee has agenda chalked out by the division of basic understanding for first 2 months, then next 2 months proper hands on training & later refining the skill & techniques

34. The purview of Gynaecological Endoscopic & Minimal Access Surgery is wide but few centres of excellence in India with teaching facility can be more useful.

The end point for this course is that the person attending has a definite complete knowledge, skill to

do the Gynaecological Endoscopic & Minimal Access Surgery in set up properly equipped.

Course Contents:

This would include the following:

1. The theoretical basis of various kinds of laparoscopic surgeries.
2. Knowledge about specialized instrumentation and their maintenance.
3. Details about the various operative procedures.
4. Indications, limitations of procedures and contra-indications based on evidence based medicine.
5. Use of computers and various software's to maintain surgical audit, prepare presentations, maintain website browse the net, to perform digitization of videos and edit them and use of telemedicine and virtual reality.
6. Evaluation of data based on surgical audit.
7. Topics which includes ethical, legal and social responsibilities of surgeons.

Skills

The candidate will be given an opportunity to observe (O), assist surgeries (A), perform with assistance (PA) and perform independently (PI) in various cases

Training methods

There will be regular training sessions for the candidates, as follows:

1. Lectures
2. Video demonstrations
3. Seminars and Symposia
4. Panel discussions
5. Ward rounds and Case presentations
6. Journal club
7. Presentations of paper in Conferences.
8. Publication in important journals
9. Project Work
10. Practical training in inanimate trainers, computerized

modules, virtual reality modules

11. Assisting live surgeries

12. Performing surgeries under supervision

1. Lectures:
a) **Didactic Lectures:** Selected common topics will be discussed during the first few months of the course and most of them will be introduced to the candidate to enable him increase his productivity during the course. These would include:
1) Bio-statistics
2) Use of library
3) Research Methods
4) Communication Skills etc.
5) Use of computers

2. Video Demonstrations

There will be a series of lectures based on DVD's demonstrations of various laparoscopic surgeries. This will be from the vast compilation of DVD's (> 100's laparoscopic ,hysteroscopic& minimal access surgeries performed by various gynaecological endoscopic surgeons of international repute). Several points will be discussed during these sessions, which include:

1) The operative procedure details
2) Problems that

would be encountered during the surgeries 3) Dealing with different situations and pathologies 4) Various approaches to a given problem 5) Different techniques of surgery that can be adapted 6) Proper usage of various instruments and energy sources

. Presenting Papers in Conferences :

The candidate will be encouraged to attend conferences and workshops in laparoscopic, hysteroscopic & minimal access surgery during the course & to present as many papers & videos at these conferences.

. Publications:

All facilities will be given to acquire and record data and to send articles for publications in journals of international repute. Each candidate will be encouraged to send in at least one article for publication in a certificate course.

Practical training

- . (a) Pelvi-trainer sessions: Practical training will be given on inanimate Pelvitainers. Various types of exercises are taught in these trainers, the actions of which mimic the various steps of surgical procedures.
- . (b) Hysterotainers & Simulators for different pathologies
- . (c) Virtual reality training module optional.
- . (d) Assisting surgeries: The candidate will be given opportunities to assist a number of surgeries

- which are mentioned in the roster. The assisting surgeries would include various surgical procedures, operating through the other ports other than what the surgeon is using and coordinating by holding the camera.
- . (e) **Performing surgeries under supervision:** Based on the performance and the active involvement of the candidate he/she will be allowed to perform certain operations under supervision by senior faculty. The type of surgery and number of surgery will be decided upon based on the expertise that the candidate has acquired.
 - . **Assessment for certification**
 - . **Internal assessment**
 - . will be based on the evaluation of the log book. Log book- maintaining a proper record of events of teaching and experiences that the candidate has obtained in a log book.. The record will include academic activities as well as the presentations and procedures carried out by the candidate.
 - . **The written assessment:**
 - . There shall be a written assessment at the end .Theory paper shall carry 100 marks.
 - . **Practical Exam:**
 - . There shall be one external examiner, appointed by the ICOG ~ FOGSI. 1 hour maximum 100 marks
 - . **Certification:**
 - . Based on the recommendations made by the examiners, successful candidate would be awarded the Certificate scroll by ICOG ~ FOGSI.
 - . **In case of unsatisfactory completion, the trainee would be given another chance to appear before the examiners (6 months) later.**