

## **BASIC LAPAROSCOPIC GYNECOLOGY SKILLS AND PROCEDURES COURSE**

**Introduction:** To allow practicing GYNAECOLOGIST already performing most surgeries by open route to acquire basic level skills in laparoscopic gynaecology. This aims to provide doctors the necessary knowledge and skills to initiate this training course in their own operating rooms.

BASIC COURSE will be for those not performing any laparoscopies and want an introduction to Gynaecology Endoscopy.

- Encounter a range of patient pathologies.
- Gain experience with various techniques and surgical instruments.
- Learn to avoid and control complications

### **Duration:**

Basic course: 7 days

### **Teaching methods:**

- Face to face course
- Didactic lectures
- Video presentations
- Pelvic trainer lab
- Operation theatres for observation. Operative assistance
- Hands on procedures

## **Procedures:**

Diagnostic hysteroscopy

Creating pneumoperitoneum and ports

Diagnostic laparoscopy: infertility, tubal patency, endometriosis, adhesions

Operative hysteroscopy: sampling, polypectomy, IUCD removal

Camera manipulation 0°; Camera Manipulation 30°

Endotrainer sessions: Eye-hand coordination; Clip application; Clipping and grasping; Two-handed maneuvers; Cutting; Electrocautery; Translocation of objects.

## Course Schedule:

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7
INTRODUCTION & PRETEST	Hysteroscopic procedures: indications, contraindications [lecture]	DIAGNOSTIC PROCEDURES ON LAPAROSCOPY [LECTURE]	DEMONSTRATION OF NORMAL AND ABNORMAL PATHOLOGY{VIDEO}	Video demonstration of laparoscopic procedures	OT: Laparoscopic management of Ectopic pregnancy, mid to moderate Endometriosis, Adhesiolysis, PCOD drilling	OT : Exposure to advanced procedures like TLH, lap Myomectomy
TOUR OF OPERATION THEATRE	Hand Instruments demonstration in operation theatre	SAFE ENTRY [DEMONSTRATION]	Principles of Electrocautery	Diagnostic HYSTEROSCOPY HANDS ON	Hands on: Creation of pneumoperitoneum/Port placement	Laparoscopic Tubal ligation [hands on]
Equipment's and INSTRUMENTS [large]	Hysteroscopic assembly [BY CANDIDATE]	Indications, Pre-operative & post operative care in laparoscopy [face to face]	Demonstration of use of electrocautery in laparoscopy	Operative hysteroscopy	Assistance in OT for procedures as camera assistant / vaginal assistant/secondary port assistant	Assistance in OT for procedures as camera assistant / vaginal assistant/secondary port assistant
<b>LUNCH BREAK</b>						
Setting up hysteroscopy in OPD and OT	OBSERVING HYSTEROSCOPIC procedures [Polypectomy, septal resection, CuT removal]	Sterilisation of instruments	Care of laparoscopy and hysteroscopy instruments			Endotrainer test
Introduction to endotrainer	Endotrainer sessions	Endotrainer sessions	Endotrainer sessions	Endotrainer sessions	Endotrainer sessions	Certificate distribution

**Log book:**

Seven days record of laparoscopy and hysteroscopy Cases seen/assisted, tasks performed on endotrainer with time duration

**Certification of basic course:**

Upon completion of this course, participants should be able to demonstrate the following:

- Demonstrate application of different Gynaecological surgeries by Laparoscopy & Hysteroscopy.
- Improved Hand –Eye co-ordination skills during different exercises on pelvic trainer.
- Explain take-home pearls regarding improved efficiency in the operative room in terms of required criteria for selection of the patient, operative note and instruments in different Endoscopic surgeries. This will be monitored from your Log-book showing your daily seven days activities.
- Identify how to avoid and manage complications in different Laparoscopic & Hysteroscopic surgeries

**Expected outcomes:**

After getting certified by this course the certified FOGSIAN will be able to perform the basic procedures like

1. Diagnostic laparoscopy
2. Laparoscopic tubal occlusion
3. Salpingectomy for tubal pregnancy
4. Simple adhesiolysis
5. Salpingectomy for hydrosalpinx with mild pelvic adhesions
6. Ovarian drilling
7. Aspiration / fenestration of cyst

**Suggested Tests [from Hong Kong college of OBG]**

**OPERATIVE DIAGNOSIS KEY**

- (1) Ovarian cyst / tumour
  - 1a cyst  $\leq$  8 cm
  - 1b cyst  $>$  8 cm
- (2) Endometriosis
  - 2a stage I or II (AFS)
  - 2b stage III
  - 2c stage IV
- (3) Hydro / pyosalpinx
- (4) Tubo-ovarian abscess
- (5) Ectopic pregnancy
- (6) Pelvic adhesion
  - 6a minimal or mild
  - 6b moderate
  - 6c severe
- (7) Fibroid
  - 7a pedunculated
  - 7b subserous
  - 7c intramural / broad ligament
- (8) Adenomyosis
- (9) Genuine stress incontinence
- (10) Para ovarian cyst
- (20) Other (please specify)

**COMPLICATIONS KEY**

- (1) Injury to epigastric vessels
- (2) Injury to major vessels
- (3) Haemorrhage requiring transfusion
- (4) Significant emphysema
- (5) Bladder injury
- (6) Ureteral injury
- (7) Bowel injury
- (8) Febrile morbidity
- (9) Conversion to laparotomy
- (10) Incisional hernia
- (11) Pelvic / vault haematoma
- (20) Other (please specify)

**SURGICAL INDICATIONS KEY**

- (1) Abnormal Uterine Bleeding
- (2) Cervical Neoplasia
- (3) Dysmenorrhea
- (4) Dyspareunia
- (5) Ectopic Pregnancy
- (6) Endometrial Neoplasia
- (7) Genital Prolapse
- (8) Infertility
- (9) Pelvic Adnexal Mass
- (10) Pelvic Pain
- (11) Urinary Incontinence
- (12) Uterine Mass
- (20) Other (please specify)

**PROCEDURES KEY**

- (1) Cystectomy
  - 1a unilateral
  - 1b bilateral
- (2) Oophorectomy / salpingo-oophorectomy
  - 2a unilateral
  - 2b bilateral
- (3) Salpingectomy
- (4) Salpingotomy
- (5) Adhesiolysis
- (6) Ablation of Endometriosis
- (7) Ovarian drilling
- (8) Hysterectomy
  - 8a total
  - 8b subtotal
- (9) Colposuspension
- (10) Myomectomy
- (20) Other (please specify)