



**PRAVARA INSTITUTE OF MEDICAL SCIENCES
(DEEMED TO BE UNIVERSITY)**

**Loni, Tal. Rahata, Dist. Ahmednagar 413736
NAAC Re-accredited with 'A' Grade**

SYLLABUS

**Post Doctoral Fellowship in Gynecological Endoscopy
(Dept. of Obstetrics & Gynaecology)
(Dr. Balasaheb Vikhe Patil Rural Medical College)
(Academic Council Meeting Dated 25th August 2022)**

Preamble

Introduction

Department of Obstetrics and Gynaecology was established in the year 1984, with the inception of Rural Medical College, Loni. Postgraduate training courses started in the year 1991. In addition to providing the institutional care, department is actively involved in number of community projects on maternal health. High risk antenatal cases and critical cases report to this centre either directly or are referred by other hospitals and private practitioners from a radius of 150 km distance. We successfully manage high risk cases like eclampsia, heart diseases, postpartum haemorrhage, disseminated intravascular coagulation, etc. Approximately 10,000 deliveries including 3,500 caesarean section take place every year.

Department believes in the philosophy of team work while delivery of reproductive health care. The departmental services are backed up by good quality neonatal care unit, intensive care unit, a dialysis unit, anaesthesia and critical care unit, department of radio-diagnosis and imaging, department of Pathology, Biochemistry and Radiotherapy unit.

Department has full-fledged endoscopy unit since last ten years. All minor and major diagnostic and therapeutic endoscopic procedures are performed by faculty members. Department conducts surgical workshops and CME programmes for training of postgraduate students and faculty members. The department has modular operation theatre and labour room complex.

Vision

To emerge as the centre of excellence in the field of women's health

Mission

- Provide basic and advanced knowledge of the subject to undergraduate and postgraduate students
- Provide best quality reproductive and health care services to women of all age groups
- Provide tertiary care facilities to all complicated cases referred to Pravara Rural Hospital
- Create conducive environment for hospital and community based research

Facilities for teaching and learning process

The department is well equipped with teaching/ learning resources like books & journals, CD's, PG & UG question banks, models (eg: pelvi trainer for basic endoscopic trainings), power point presentations and audio-visual aids which are regularly upgraded. Museum with sufficient number of specimens and models have been established for teaching purpose.

Department organizes CMEs, workshops and guest lectures regularly to keep abreast with the latest development in the speciality. Students are encouraged to participate in local and national CMEs and conferences. They are guided to prepare and publish research papers during the post graduate studies.

Fellowship in Gynaecological Endoscopy-

Place and venue - Department of Obstetrics and Gynaecology- Dr. Balasaheb Vikhe Patil Rural Medical College Loni Pravara Institute of Medical Sciences and Pravara Rural Hospital, Loni , Ahmednagar

Duration of Programme- 1 year

Annual intake capacity- 4 students (four /year)

Course start dates- 1st January and 1st July every year

Eligibility for the Fellowship programme

1-Applicant possesses either a degree or diploma /DNB qualification in Obstetrics and Gynaecology

2-Applicant is registered with Maharashtra Medical Council and possesses additional qualification registration certificate or has applied for the same.

Objectives

General Objectives-

- 1-To impart in basic and advanced theoretical knowledge about Gynaecological endoscopy
- 2-To develop basic and advanced skills of performing various gynaecological endoscopic Procedures

Specific Objectives-

- 1-To impart knowledge related to various gynaecological endoscopic procedures
- 2-To impart in depth knowledge about various indications, contraindications, advantages and complications related to gynaecological endoscopy
- 3-To demonstrate various instruments, equipments, their use, handling precautions and maintenance
- 4-To teach various energy sources being used for cutting and coagulation (haemostasis) in endoscopic surgery
- 5-To develop the advanced endoscopic skills among the trainee under supervision of expert

Expected Outcome-

- 1-Trainee possesses in depth theoretical knowledge about various endoscopic procedures.
- 2-Trainee fully appreciate the benefits, limitations and complications of the newer endoscopic techniques
- 3-Trainee is able to perform major endoscopic procedures like diagnostic and therapeutic Laparoscopy and Hysteroscopy independently, with perfection and without any complication
- 4-Trainee gets a complete knowledge of various technical details of various types of electrosurgical devices, the new energy sources, vessel sealing devices, harmonic scalpel, lasers along with surgical or technical risks, complications & management of the same
- 5-Trainee is able to diagnose the complication and is able to manage it with confidence.
- 6 -Trainee is able to practice ethical and evidence based medicine.

Fellowship -Syllabus

This would include the following:

I-Laparoscopy-

- 1- Indications and Contraindications,
- 2- Instruments and equipment
- 3- Procedure
- 4- Pre operative preparations,
- 5- Techniques,
- 6- Pneumo-peritoneum creation,
- 7- Various port sites,
- 8- Electrosurgical unit settings
- 9- Handling of endoscopy camera
- 10- Care of instruments and equipment /maintenance.
- 11- Postoperative care,
- 12- Identification and management of complications.
- 13- Informed consent,
- 14- Difficulties and challenges in laparoscopic surgeries.

- 15- *Laparoscopic myomectomy-Techniques*
- 16- *Laparoscopy role in adenomyosis*
- 17- *Laparoscopic Retroperitoneal dissection*
- 18- *Laparoscopic lymph node dissection*
- 19- *laparoscopic internal iliac ligation*
- 20- *Laparoscopic ovarian drilling*
- 21- *Laparoscopic ovarian cystectomy*
- 22- *Use of surgical mesh in genital prolapse surgery*
- 23- *Laparoscopic surgery for ectopic surgery*
- 24- *Laparoscopic surgery for tubal recanalization*

II. Hysteroscopy-

- 1- Indications and Contraindications,
- 2- Instruments and equipment
- 3- Procedure
- 4- Pre operative preparations,
- 5- Techniques,
- 6- Pneumo-peritoneum creation,
- 7- Electrosurgical unit settings
- 8- Handling of endoscopy camera
- 9- Care of instruments and equipment / maintenance.
- 10- Postoperative care,
- 11- Identification and management of complications.
- 12- Informed consent,
- 13- Difficulties and challenges in hysteroscopic surgeries

III-Vaginoscopy

- 1. Indications and Contraindications,
- 2. Instruments, equipment
- 3. Procedure
- 4. Pre operative preparations,
- 5. Technique
- 6. Electrosurgical unit settings
- 7. Handling of endoscopy camera
- 8. Care of instruments and equipment/maintenance

IV-Endoscopic

- 1- *Various newer energy sources for endoscopic surgery*
- 2- *Fertility preserving endoscopic surgery*
- 3- *Endoscopic procedures for genital prolapse*
- 4- *Endoscopy for various grades of pelvic endometriosis-methods and techniques*
- 5- *Endoscopy for correction of mullerian duct abnormalities*

1. Laparoscopy-Indications, Contraindications, instruments, equipments , procedure , pre operative preparations, techniques, pneumo-peritoneum creation, various port sites, electrosurgical unit settings ,handling of endoscopy camera , care of instruments and equipments /maintenance.Postoperative care, identification and management of complications. Informed consent, difficulties and challenges in laparoscopic surgeries.
2. Hysteroscopy- Indications, Contraindications, instruments, equipments, procedure, pre operative preparations, techniques, electrosurgical unit settings , handling of endoscopy camera ,care of instruments and equipments / maintenance. Postoperative care, identification and management of complications. Informed consent, various difficulties and challenges in laparoscopic surgeries.
3. Vaginoscopy-Indications, Contraindications, instruments ,equipments ,procedure , pre operative preparations, techniques ,electrosurgical unit settings ,handling of endoscopy camera ,care of instruments and equipments /maintenance

Teaching -Learning Methods

There will be regular training sessions for the candidates, as follows: 1. Lectures 2. Video demonstrations 3. Seminars and Symposia 4. Ward rounds and Case presentations 5. Journalclub 6- Assisting surgeries 7. 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

Practical training

- (a) **Pelvi-trainer sessions:** Practical training will be given on inanimate Pelvitrainers. Various types of exercises are taught in these trainers, the actions of which mimic the various steps of surgical procedures.
- (b) **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.
- (c) **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.

Demonstration and hands on experience

The trainee will be provided ample opportunities to learn as per the course objectives. Trainee will be provided following learning opportunities during the basic course.

1-Observe-Trainee will get chance to observe various minor and major endoscopic procedures performed by expert faculty-**Initial 1 month**

2-Assist- Trainee will get chance to assist various minor and major endoscopic procedures performed by expert faculty- **3 months**

3-Perform under supervision- Trainee will get chance to perform various minor endoscopic procedures under supervision of expert faculty - **4 months**

4-Perform independently- Trainee will get chance to perform various minor endoscopic procedures in presence of expert faculty -**4 months**

Weekly teaching schedule of trainee fellows

Day	9am - 1pm	3pm - 5pm
Monday	Operation theatre	Case presentation
Tuesday	Operation theatre	Seminar/Symposium presentation
Wednesday	Operation theatre	Faculty Lecture
Thursday	Operation theatre	Video demonstration and group discussion
Friday	Operation theatre	Journal club
Saturday	Operation theatre	Skill lab activity

Programme Outcome

The candidate will be given an opportunity to observe (O), assist surgeries (A), perform with assistance (PA) and perform independently (PI) in various cases At the end of the training period, trainee must be,

- 1-Able to perform Diagnostic laparoscopy
- 2-Able to perform Diagnostic Hysteroscopy
- 3-Able to perform laparoscopic tubal sterilization
- 4-Able to perform laparoscopic biopsy
- 5-Able to perform ovarian drilling in PCOS
- 6-Able to perform laparoscopic chromo-pertubation
- 7-Able to do laparoscopic management of un ruptured tubal ectopic pregnancy
- 8-Able to use monopolar and bipolar cautery
- 9-Able to set electrosurgical unit
- 10-Able to provide pre operative counselling and post operative care following endoscopiesurgery
- 11-Able to perform tubal cannulation
- 12-Able to perform adhesiolysis (Fertility enhancing surgeries)
- 13-Able to perform adnexal removal
- 14-Able to perform surgery for endometriosis
- 15-Able to perform tuboplasty
- 16-Able to perform different sling surgeries for utero-vaginal prolapse
- 17-Able to perform myomectomy surgery
- 18-Able to perform total laparoscopic hysterectomy
- 19-Able to manage complications of endoscopic surgery
- 20-Able to perform corrective surgery on structural deformities of uterus

Trainee Assessment and Certification

- 1-Logbook-Trainee will have to maintain a logbook showing the attendance for the lectures, Case /Seminar presentation, Journal reading, Conferences attended, Papers presented in the conference during training, Surgical procedures attended, assisted and performed during the course. Trainee will have to take signature of the supervisor on day to day basis and show it to course co-ordinator every month.
- 2-The supervisor/faculty members will supervise the work of the trainee on day to day basis and will give feedback to the trainee.
- 3-Final assessment will be done by the university every year through a theory examination of 100 marks and practical and viva examination of 100 marks. Minimum of 50% marks, separate in theory and practical examination will be required for passing the examination.

4-Fellowship certificate will be issued to the trainee by the university after passing the final examination. If the trainee is unable to pass in first attempt, a separate examination will be conducted within one month.

Minimum requirement of performance / assistance of common endoscopic procedures to become eligible for certification

Sr No	Procedure	Number assisted	Number performed under supervision	Number performed independently
1	Diagnostic Laparoscopy	5	5	5
2	Laparoscopic tubal sterilization	5	5	5
3	Diagnostic hysteroscopy	5	5	5
4	Ovarian drilling	5	5	3
5	Adhesiolysis	1	3	2
6	Removal of adnexal pathology	2	2	3
7	TLH	5	5	5
8	Sling surgery	3	2	1
9	Tubal cannulation	3	2	1
10	Tuboplasty	1	1	1

Publications

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

Fee structure

The candidate will be asked to pay Rs. 1,50,000/- by Demand draft in favour of Pravara Institute of Medical Sciences, with prescribed application form at the time of admission towards the Fellowship course in Gynaecological endoscopy. No stipend will be paid to the trainee.

Accommodation facilities

Trainee may be provided with hostel accommodation on payment basis, depending on the availability.

- **Evaluation:-**

Term end examination will be arranged and conducted by Dept. of Obstetrics & Gynaecology, Dr. Balasaheb Vikhe Patil Rural Medical College and declare the result.

Examination Scheme

Paper - I: Post Doctoral Fellowship in Gynaecological Endoscopy

Theory Examination:- Paper of 100 marks

2 LAQ x 20 Marks = 40 Marks

6 SAQ x 10 Marks = 60 Marks

Practical Examination:- 100 Marks

One Long Case / Long experiments = 50 Marks

One Short Case = 25 Marks

Viva Voce / Oral / OSPE / Spottes = 25 Marks

Minimum Passing:-

- Minimum 50% in Theory papers (Each paper minimum is 40%)
- Minimum 50% in Practical / Clinical & Viva Voce
- Overall 50% Theory & Practical/Clinical

Award of class:-

50% to 59.5% = IInd class

60 to 74.5% = Ist Class

Above 75% = Ist Class with Distinction

Attempts:-

- A student shall clear the Examination only within three attempts or within 4 years of admission.
- Result / Issue of Mark Sheet - Head of Institute & HOD will jointly issue the Mark Sheet.

Certification:-

- Title - Post Doctoral Fellowship in Gynaecological Endoscopy.
- A fellowship is awarded upon successful completion of the prescribed study program, which will state that i) Candidate has completed the prescribed course of Post Doctoral Fellowship in Gynaecological Endoscopy, ii) Candidate has completed prescribed clinical experience. iii) Candidate has passed the prescribed examination.
- Certificate will be issued with the signatures of concern Dean, Dr. Balasaheb Vikhe Patil Rural Medical College & Vice-Chancellor, Pravara Institute of Medical Sciences (Deemed to be University).
- Certificates to be prepared by concern College.

Pravara Institute of Medical Sciences
Department of Obstetrics and Gynaecology, Dr. Balasaheb
Vikhe Patil Rural Medical College
At Po-Loni, Tal-Rahata, Dist-Ahmednagar, 413 736

**Application for Admission to Fellowship in Gynaecological Endoscopy and
Minimal Access Surgery**

I desire to take admission for the Fellowship in Gynaecological Endoscopy at Pravara Institute of Medical Sciences Loni. I hereby apply for the same. If permitted to join the course, I shall abide by all the rules and regulations of the University. I hereby furnish my bio-data.

Date of Application _____ Date of Receipt _____
(By Office)

Signature of Applicant _____

Name (in Capital) _____
(Surname) (First Name) (Middle Name)

Academic Qualification-

Degrees & Diplomas University / College /

Institution Year of Qualifying

Permanent Address _____

Telephone Nos. _____
(Residence) (Office) (Mobile)
Fax No. _____ Email : _____

Medical Council Registration Number and date,

Name of the State Register _____

To be filled in by the University Office

Serial No. _____ Date when application & Payment received _____

Amount Rs. _____ by Cash / Cheque / Draft _____

Receipt No. _____ Date _____

Date when application is approved _____

Remarks _____

Manager Accounts, PIMS

Certificate

This is to certify that Dr.-----
has completed the “Fellowship in Gynaecological Endoscopy” at
Department of Obstetrics and Gynaecology of Rural Medical College,
Pravara Institute of Medical Sciences (Deemed to be university),Loni,
Ahmednagar in the year -----

Course Co-ordinator
Dept .of Obst- Gyn,

Dean
DBVPRMC,Loni

Registrar
PIMS, Loni




Registrar
Pravara Institute of Medical Sciences
(Deemed to be University)
Loni-413736, Tal Rahata, Dist. Ahmednagar
(M.S. India)