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# **FELLOWSHIP IN ENDOSCOPIC SINUS SURGERY**

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D Y PATIL UNIVERSITY, KOLHAPUR

DEPARTMENT OF ENT  
D Y PATIL MEDICAL COLLEGE, KOLHAPUR

**Objective:**

This is a one year fellowship program that is available for candidates desiring additional training in Endoscopic Sinus Surgery This will include learning on the pathophysiology, evaluation, diagnosis and current Standard Management in all pathologies that lead them to Endoscopic Sinus Surgery.

There will be a very strong emphasis on research, scholarly activity and teaching experience. This Fellowship will enable candidates to have a strong foundation to receive the Post-Doctoral Fellowship Award from the DYPU and consequently have a successful career in clinical practice.

**Programme:**

The Fellowship seeks MS/ DNB qualified ENT surgeons with a very strong commitment to academic evidence based medicine and research. It provides both didactic and self- directed teaching at both clinical and research skills.

**Name of the Course- Fellowship in Endoscopic Sinus Surgery**

**Course Duration-**1 year/ 2 semesters.

**Eligibility for Candidate for the Award of Fellowship-**MS. /DNB in otorhinolaryngology.

**Selection Criteria for candidates:**

Fellows should be selected in a fair and non-discriminatory manner in accordance with the Equal Opportunities. The selection process will be according to MCI guidelines. The candidates will be called for the interview. Ultimately, selection of a candidate for a fellowship will be done by an interview with panel of faculties constituted by the DYPU.

**Criteria for the faculty with DYPU for Fellowship of Endoscopic Sinus Surgery :**

- 1) Minimum 15 years' experience of Surgery in the specified course/module.
- 2) Minimum 10 years' experience of Professor/Teacher/Instructor/Faculty at various specific course Surgery training Institutes
- 3) A University Diploma/Fellowship/Doctorate in specific surgery is preferred

**1. Program Director**

A single program director must be responsible for the fellowship program.

**a. Qualifications of the program director**

The program director must be a ENT surgeon who is qualified to supervise and to educate fellows and must meet requirements stipulated by DYPU. The director must be recognized nationally or regionally by his or her peers as a leader in the area of the program's focus.

Program director must:

1. Be certified by the Medical Council of India.
2. Be licensed to practice medicine in the state in which the sponsoring institution is located.
3. Maintain a cooperative working relationship with all other recognized surgical training programs
4. Be a member in good standing of at least one of the constituent societies
5. Minimum 15 years' experience of Specific/specialized Surgery
6. A University Diploma/Fellowship/Doctorate in Specific/specialized surgery.
7. Demonstrated experience and/or expertise in teaching residents, fellows, or post graduate surgeons on a regional, national or international level.

b. Responsibilities of the program director

It is the responsibility of the program director to support the fellowship program by devoting his or her efforts to its management and administration. The director is also expected to be an active and recognized participant in the institution's clinical and educational programs. Preparation of a written statement: to include an outline of the goals of the fellowship program with respect to knowledge, skills, and other attributes, a narrative description of the fellowship, including details of fellows' involvement in clinical, research, teaching, and administrative activities, and a description of the relationship between the fellowship and the general surgery residency program. This statement must be made available to fellows, general surgery residents, the director of the general surgery residency program, and members of the teaching staff.

1. Selection of fellows for the program in accordance with institutional policies and procedures.
2. Selection and supervision of the teaching staff and other program personnel at each institution participating in the program.
3. Supervision of fellows through explicit written descriptions of supervisory lines of responsibility for the care of patients. Such guidelines must be communicated to all members of the fellowship program staff.
4. Organization and supervision of the research activities of fellows.
5. Organization and supervision of fellows' participation in conferences and other educational activities, and oversight of implementation of the fellowship curriculum.
6. Implementation of fair procedures, as established by the sponsoring institution, regarding academic discipline complaints and grievances.
7. Oversight of accurate tabulation and recording of operative logs by surgical fellows in the Fellowship case log system.

**2. Teaching staff / Faculties**

- Other than the program director, additional teaching staff with documented qualifications and a commitment to instruct and supervise fellows must be available.
- Minimum 10 years' experience of Professor/Teacher /Instructor/Faculty at various Specific/specialized Surgery training Institutes.
- A University Diploma/Fellowship/Doctorate in Specific/specialized surgery is preferred
- Staff members should have a recognized record of achievement in clinical practice, teaching, research, or a combination of these. Faculty members should be primarily

committed to the program's area of focus and have a clinical practice that supports areas of special skills. Members of the teaching staff must be able to devote sufficient time to supervisory and teaching responsibilities.

- When the fellowship program is located in more than one institution, a member of the teaching staff of each participating institution must be designated to assume responsibility for the day-to-day activities of the program at that institution, with overall coordination by the program director.
- The teaching staff must submit to regularly and formally review of performance in accordance with the goals and objectives of the fellowship.

## **SCHEME OF EVALUATION**

### **A) SOFT SKILL DEVELOPMENT MODULE:**

These include Working at Basic Skill Institutes, Virtual Reality Stations, Cadaveric Surgeries, Knotting and suturing Techniques, Basic knowledge of instrumentation and Energy Sources. A candidate may have to take additional Basic course pertaining to any special operative techniques

### **B) Didactic Credits :**

Didactic on various topics as per syllabus spread over One Hour lecture.

### **C) Presentation, Publications & Project Work**

Under faculty guidance, presentations for Local , Regional & national conferences.

### **D) Video Learning, Grand Rounds, Faculty Discussions**

Review of Recorded Surgical Procedures with Faculty Input. Specific/specialized Surgery Grand Round/Clinical Case Conference. Disease/Journal Club, Round Table Discussions.

### **E) Sessions in Imaging Clinics**

Learning of Ultrasound, CT scan, MRI

### **F) OPERATIVE SESSIONS.**

**Operative:** A Candidate is expected to maintain certified Log book indicating number of cases assisted or individually operated under the guidance of faculty for each Module.

### **G) Fellowship Examination**

The examination for a particular course may be conducted according to the requirement of a course.

Rotation:

A Fellow during his tenure of One year will be rotated through various institutes /faculties for total exposure to various aspects and skill in Specific/specialized Surgery. Rotations to other faculties within the course are important part of the skills curriculum. Rotations are agreed upon by the faculty and optional rotations are available upon request of the fellow and approval by the faculty program director. Upcoming interesting cases by faculty should be broadcast to all fellows through the monthly didactic meetings so freely available fellows can travel to the sites to participate or see these unusual cases.

Evaluations of the fellows by the faculty and of the faculty by the fellows will be performed at all teaching sites every quarter during the year and upon the completion of each rotation.

**This requires rotation in**

- a) Soft Skill Development and working at skill station and Virtual reality module for proper hand to eye co-ordination ,basic skills, basic laboratory work and proper perspective**
- b) Didactic Lectures /Grand Rounds/ Clinical meetings**
- c) Operative sessions in various modules/subjects/expertise in particular surgical procedure in the specified/specialized course**
- d) Other**

Operative experience will take place along with the Faculties.

### **Clinical Responsibilities**

The fellow will attend and work under the faculty in the recognised institutes on the assigned modules. He/ She will participate in the preoperative assessment and planning as well as the postoperative follow-up of their assigned patients under the faculty guidance.

### **Research Training:**

All Fellows are expected to be intimately involved with the program's research activities, to publish at least 3 case reports per year and present their work at local, regional and National meetings and conferences. Most of the research will focus on the current techniques and outcomes evaluations of Procedures. These will involve both clinical and laboratory based work. The Programme recognizes the necessity that its Fellows have a basic knowledge in specified Surgery. Didactics, round table meets and seminars will routinely update the academic content of the programme. This will be supplemented with Clinical Learning, through outpatient clinics, ward rounds and presentations and operative experience in the form of assisting and being proctored over surgical procedures

### **Expectations include:**

Demonstrate manual dexterity appropriate for their training level. Critically evaluate and demonstrate knowledge of pertinent scientific information. Practice-based learning and improvement that involve investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, and improvements in patient care.

All Fellows will present and review current literature at Journal Clubs. All Fellows will be expected to actively participate at local, regional and National seminars and conferences.

Maintain high standards of ethical behaviour. Demonstrate sensitivity to age, race, gender, and culture of patients and other health care professionals Practice high-quality, cost-effective patient care. Demonstrate knowledge of risk-benefit analysis. These academic activities will be constantly be reviewed by a Senior Faculty.

### **Portfolio Management:**

A Fellow will maintain a Fellowship PORTFOLIO. Two monthly review of following topics by faculty via internet /in person this will include: Research/Project, Log Book, Presentations, On-going Publications. Number of hours spent on hands on practice, Summaries of case discussions and presentations, Synopsis of publications.

Maintaining accurate case logs is critical to each fellow. These numbers are vital for hospital privileging. It is mandatory that case logs are entered by each fellow into the Specified Surgery/Course Fellowship Case Log. Case logs need to be printed and brought to the monthly didactic meetings for review. Failure to do so results in the curtailing of operative privileges. Log book, presentation & Dissertation will be signed & evaluated on a time to time basis by respective faculties.

**On successful completion of all modules of the Programme the Fellow will be awarded a Certificate of the Fellow in Endoscopic Sinus Surgery by the DYPU.**

#### **CURRICULUM:**

##### **Core Subject:**

##### **A) SOFT SKILL DEVELOPMENT MODULE/ Laboratory Module**

Anatomy and physiology of paranasal sinuses (approximate duration: 2 months)

This will include the study of the osteology of the facial bones, lateral nasal wall and endoscopic anatomy. The candidate will have to conduct two cadaveric dissections, one for the lateral nasal wall and one for endoscopic anatomy.

##### **B) Didactic Credits :**

Didactic on various topics as per syllabus spread over one Hour lecture. Total 10-20 Lectures

##### **C) Sessions in Imaging Clinics**

Learning of Ultrasound, CT scan , MRI.

Radiology of paranasal sinuses (approximate duration: 1 month)

The candidate will need to study both normal and abnormal CT scans of the paranasal sinuses. He/She will also need to acquire some knowledge on specialized radiological investigations such as MRI, CT cisternography, Embolization techniques and Dacryocystography.

##### **Elective Subjects:**

- 1. Recent advances in endoscopic sinus surgery.**
- 2. Pediatric endoscopic sinus surgery.**
- 3. Skull base surgery.**

#### **OPERATIVE SESSIONS**

**Operative Credits:** A Candidate is expected to maintain certified Log book indicating number of cases assisted or individually operated under the guidance of faculty for each Module.

A) Surgeries of the Paranasal sinuses (approximate duration: 3 months:50 credits)

The candidate will be required to observe and assist first hand in basic surgeries like anterior ethmoidectomy, posterior ethmoidectomy, endoscopic dacrocystorhinostomy and surgeries of the maxillary sinus. A fellow is expected to perform safely under faculty guidance

B) Surgeries of the Paranasal sinuses (approximate duration: 4 months: 50 Credits) surgeries of the sinuses adjoining the base skull i.e. the frontal and the sphenoid sinus. A fellow is expected to perform safely under faculty guidance

C) Advanced module (approximate duration: 2 months: 50 Credits) extended applications of Endoscopic sinus surgery such as CSF leak repair, pituitary tumours, nasal malignancies, surgery of the orbit, optic nerve decompression and other lesions which have eroded the anterior skull base. A fellow is expected to perform safely under faculty guidance.

**D) Other**

**Fellowship Examination**

The examination for a Endoscopic sinus surgery course will be conducted at the end of each semester.

**On successful completion of all modules of the Programme the Fellow will be awarded a Certificate of the Fellow in Endoscopic Sinus Surgery by the DYPU.**

**TITLE OF PROGRAM: Fellowship in Endoscopic Sinus Surgery**

**Duration of Program:** One year

**Number of Semesters:** 2

**Number of Papers:** 3

**Core Papers: (60% weightage of marks)[List syllabus for each paper]**

1. Surgical Anatomy, Physiology and Radiology of Nose and para-nasal sinuses
2. Operative principles, complication and management of endoscopic sinus surgery

**Elective Papers: (25% weightage of marks)**

Discipline-related: (Allied specialty, Diagnostic modalities, Sub-specialty)

1. Recent Advances in endoscopic sinus surgery
2. Pediatrics endoscopic sinus surgery.
3. Skull Base surgery.

**Foundation Papers: (15% weightage of marks – only compulsory)**

- Compulsory:
1. Research Methodology
  2. Medical Ethics

- Value-based (any1):
1. ATCOM
  2. Computer skill
  3. Marathi language

**Semester wise Paper distribution** (Core, Elective & foundations as may be applicable):



1. Semester 1:

Core: Surgical Anatomy, Physiology and Radiology of Nose and para-nasal sinuses

Foundation (compulsory 1): Research Methodology

2. Semester 2:

Core: Operative principles, complication and management of endoscopic sinus surgery

Elective: Recent Advances in endoscopic sinus surgery, Pediatrics endoscopic sinus surgery, Skull Base surgery.

**1 Semester = 450 Hours / 90 Days / minimum 15-18 weeks**

	SEMESTER 1			SEMESTER 2		
	Hours	Per Week	Credits	Hours	Per Week	Credits
Core	45	2	3	45	2	3
Elective-Discipline	-	-	-	30	2	2
Elective-Generic	-	-	-	-	-	-
Foundation – Compulsory	45	2	3	-	-	-
Foundation – Value Based	10	1	-	10	1	-
Practicals	350	16	11	365	17	12

Assessment for credit courses (Absolute grading method):

Marks	93%	84%	77%	70%	63%	56%	49%
Letter grade	A+	A	B+	B	C+	C	F
Grade point	10	09	08	07	06	05	00