

## **DEPARTMENT OF ORAL PATHOLOGY AND MICROBIOLOGY**

### **Description of Department:**

- Department Name: Oral Pathology and Microbiology
- Location: 1<sup>st</sup> floor, Room no.133, Government dental college and hospital, government medical college campus, Aurangabad, Maharashtra. 431001
- Head of the department: Dr Jyoti D Bhavthankar M.D.S. (Oral Pathology & Microbiology)
- Email Id – [opathgdca@gmail.com](mailto:opathgdca@gmail.com)
- Oral pathology is at the confluence of basic sciences and clinical dentistry. It deals with nature, identification and management of diseases of oral and maxillofacial structures. It is the science that investigates the causes, process & effects of these diseases. It utilizes various means like cytology, biopsy, biochemical investigations & advanced investigative techniques (e.g. IHC & PCR) for accurate diagnosis and further patient management.

### **Mission & Vision-**

- To bring up the professionals with highest cognitive, affective and psychomotor skills of global standards.
- To train graduate and postgraduate students competent to deliver best possible treatment modalities for oral and dental diseases at rural as well as global levels.
- To inculcate ethical values in day-to-day practice.
- An institute which can provide a high-quality education in health sciences at par with global standards in terms of knowledge and skills which would be beneficial to the society.

### **Scope of the department:**

Department has teaching program for first year BDS ( Dental anatomy and histology) and Third year BDS (Oral pathology and microbiology)

The educational program of the department is comprised of a broad range of didactic, practical (Carvings of tooth models & Microscopy of normal and abnormal oral tissue) and clinical activities for undergraduate and postgraduate students. The well trained teaching

faculty, advanced audiovisual aids and museum create a good learning atmosphere for the students.

The strong basics regarding oral anatomy and histology & oral pathology remain the backbone of entire dentistry. The knowledge of oral pathology helps to develop treatment plans that address existing problems as well as disease prevention and health promotion. The art & photography unit in the department supports the academic & extracurricular activities by providing illustrations.

#### **Patient services:**

In the department Investigative Procedures such as Complete hemogram manually or using automated blood cell counter, Biochemical investigations like blood sugar, Biopsy & cytology processing and reporting are carried out. Microbial staining and special staining are also done if required.

Immunohistochemistry is done for academic and research activities. Clinical examination of various pathologies particularly oral premalignant and malignant lesions – counseling & referral to appropriate department for further management.

- Hematology: Blood investigations (complete hemogram, Bleeding time, clotting time)
- Histopathology: Biopsy, cytology, special stains, immunohistochemistry
- Microbiology: Microbial stains
- Clinical: Thorough examination of the patient and counseling and referral to appropriate department for further evaluation.

#### **Approximate no. of patients treated per year**

<b>Sr. No.</b>	<b>Patients</b>	<b>Number</b>
1.	Hematology	7542
2.	Histopathology	252
3.	Cytology	95
4.	Clinical	378

#### **Academic Activities:**

Students are encouraged to participate in seminars, group discussions, clinical case discussions, quiz contest, CDE programmes and conferences.

**Under Graduate Curriculum:**

The department's undergraduate dental curriculum starts in first year wherein the students are studied with the dental anatomy and dental histology. After imbibing the correct and strong basics regarding the anatomy and histology which remain the backbone of entire dentistry, the next goal is accomplished in the third year and that is, to develop the student's knowledge regarding Oral Pathology and Microbiology. It helps to study pathogenesis, intervention and prevention of the disease.

These teaching lessons for the students are sufficed with study models, pictorial charts and advanced audio-visual aids. Undergraduate students are encouraged to participate in seminars / tutorials periodically on various topics.

**Post Graduate Curriculum:**

The department of Oral Pathology and Microbiology started enrolling students for postgraduate course from the year 1994 and so far, 81 students have been enrolled and the first 72 students have successfully passed out. The training includes an exhaustive and comprehensive study of Oral pathology and Microbiology detailed with clinical correlations and insightful study of the mechanism or pathogenesis of the disease.

Interactive seminars and journal clubs are held every week in the seminar room equipped with audio-visual aids. The Post Graduate students are also encouraged to participate in various community programme, continuing dental education programs like interactive slide sessions conducted in various dental colleges. The Post Graduates and staff of the department participate in various state & national conferences, conventions and workshops by giving scientific presentations.

**Research:**

The laboratory is well equipped with advanced diagnostic equipments and facilitates the faculty and post graduates for research work. Department has conducted research projects with a grant received from STAR research project of Medical Research Council .

The Research papers awarded at speciality national conferences are 45. Publications of faculty and PG students are more than 200. Faculty has also contributed to the textbook.

**नागरीकांची सनद**  
**शासकीय दंत महाविद्यालय व रुग्णालय, औरंगाबाद**  
**(दंत विकृती व अणुजीव शास्त्र विभाग)**

अ.क्र.	सेवेचे नाव	आवश्यक कागदपत्रे	सेवेसाठी किती कालावधी लागेल (दिवस)	जबाबदार अधिकारी	पर्यवेक्षक अधिकारी
१.	नियमित तपासणी, रक्त तपासणी, ब्लीडिंग टाईम, क्लोटींग टाईम, हिमोग्राम	रुग्ण पत्रिका, तपासणीचे विनंतीपत्रक व शुल्क लागू असल्यास पैसे भरल्याची पावती	१ दिवस (त्याच दिवशी)	सहाय्यक प्राध्यापक, सहयोगी प्राध्यापक	प्राध्यापक व विभागप्रमुख
२.	बायोप्सी प्रोसेसींग, रिपोर्टिंग अ) सॉफ्ट टीश्यू बायोप्सी आ) हार्ड टीश्यू बायोप्सी आवश्यकतेनुसार अती विशेष तपासण्या		अ) ५ ते ६ दिवस आ) ७ ते ८ दिवस (जास्तीचे दिवस)		
३.	अ) स्पेशल स्टेनींग आ) मायक्रोबियल स्टेनींग ई) इम्युनो हिस्टो केमिस्ट्री (अन्टीबाडीज उपलब्ध असल्यास)		अ) १ दिवस आ) १ दिवस ई) ३ ते ४ दिवस		

**Staff Members:**

**Teaching Staff:**

Dr. Jyoti D. Bhavthankar (Professor & HOD)

Dr. Mandakini S. Mandale (Associate Professor)

Dr. Jayanti G. Humbe (Associate Professor)

Dr Vaishali A. Nandkhedkar (Assistant Professor)

Dr. Savita P Wagh (Assistant Professor)

Dr Poonam R Zanwar (Assistant Professor)

**Non Teaching Staff:**

P Y Kamathe (Biochemist)

S K Thorat (Lab Technician)

D B Ingle (Lab Attendant)

**Art & photography department:**

Y.P. Shinde (Photographer)