



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'A' Grade

## **YENEPOYA DENTAL COLLEGE**

**Deralakatte, Mangaluru -575018**

**PROGRAM OUTCOMES**

**POSTGRADUATE PROGRAM (MDS)**

**ORAL PATHOLOGY AND MICROBIOLOGY**

## **PROGRAM OUTCOMES**

### **POSTGRADUATE PROGRAM (MDS)**

#### **ORAL PATHOLOGY AND MICROBIOLOGY**

- PO 1** Apply the basic knowledge of both general and oral pathology in dealing with the nature of oral diseases, their causes, processes and effects.
- PO 2** Perform routine histopathological evaluation of specimens relating to oral and perioral tissues, including principles of histochemistry, Immunochemistry, applied and theoretical biochemical basis of histochemistry
- PO 3** Plan and administer the routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultrastructural investigations.
- PO 4** Demonstrate the current research methodology, collection and interpretation of data, the ability to carry out research projects on clinical and or epidemiological aspects.
- PO 5** Write scientific papers and Update knowledge on current databases, automated data retrieval systems and referencing.
- PO 6** Demonstrate the scientific data pertaining to the field and present it in conferences both as poster and verbal presentations and take part in group discussions.
- PO 7** Recognize the pathology of oral tissues as well as the relation of local pathologic and clinical findings to systemic conditions
- PO 8** Apply basic oral microbiology and their relationship to various branches of dentistry affecting hard and soft tissues
- PO 9** Describe the basics in Forensic Odontology and ability to apply it in medicolegal issues
- PO 10** Demonstrate and practice integrity, responsibility, respect and selflessness
- PO 11** Examine and interpret gross tissue specimens
- PO 12** Interpret pathologic cellular change microscopically and group diseases of similar histologic patterns in order to arrive at a differential diagnosis and ultimately to a final diagnosis
- PO13** Provide a pathology report with final diagnosis and communicate effectively about it with the contributing clinician
- PO14** Read, interpret, and critically evaluate the oral and maxillofacial pathology literature
- PO15** Communicate effectively and sensitively with patients, care-givers, colleagues, clinicians, surgeons and the public in a manner that will improve health care outcomes

## **PROGRAM SPECIFIC/COURSE OUTCOMES**

### **POSTGRADUATE PROGRAM (MDS)**

#### **ORAL PATHOLOGY AND MICROBIOLOGY**

##### **COGNITIVE DOMAIN**

1. Should have a sound knowledge about the diseases affecting the oral cavity.
2. Should have a thorough knowledge about tissue processing techniques
3. Should have good knowledge about the various laboratory techniques used to diagnose oral disease
4. should be updated with the recent advances in diagnostic techniques of oral diseases
5. should keep upbreast with the latest trends in research

##### **PSYCOMOTOR DOMAIN**

1. The student should acquire competencies in the following tasks
  1. Biopsy ; The student should be confident in performing the following biopsy techniques
    - a. Incisional Biopsy
    - b. Excisional Biopsy
    - c. Punch Biopsy
    - d. Fine Needle Aspiration Cytology
    - e. Fine needle aspiration Biopsy
    - f. Exfoliative cytology
  2. Tissue processing; The student should be well versed with tissue processing and various steps in tissue processing such as
    - a. Fixation
    - b. Dehydration
    - c. Clearing
    - d. Wax impregnation
    - e. Microtomy

3. Staining; The student should be competent in doing
  - a. Routine Staining such as H&E
  - b. Special stains such as mucicarmine, Van Ge Son, Masson's Trichome etc
  - c. Advanced techniques such as immunohistochemistry.
4. Blood

The student should be confident in performing in the following tasks:

1. Determination of total RBC count
2. Determination of total WBC count
3. Preparation of peripheral blood smear and determination of differential leucocyte count
4. Determination of hemoglobin concentration of blood
5. Determination of packed cell volume and erythrocyte sedimentation rate,
6. Determination of bleeding time, clotting time and plasma prothrombin time

#### **AFFECTIVE DOMAIN**

1. To diagnose a case without consideration of caste, creed or any other bias.
2. To inculcate a virtue of honesty and altursim while diagnosing a patient with disease.
3. Develop ethics while treating a patient
4. Willingness to learn newer diagnostic techniques and latest advances in the field of oral pathology
5. Willingnesst to respect all peers and to obtain opinion from them in case of diagnostic difficulties.