

ORAL MEDICINE AND RADIOLOGY

(As Per DCI)

Oral Medicine:

Oral Medicine is the specialty of dentistry that is concerned with the oral health care of medically compromised patients and with the diagnosis and nonsurgical management of medically related disorders or conditions affecting the oral and maxillofacial region. Oral medicine specialists are concerned with the nonsurgical medical aspects of dentistry. These specialists are involved in the primary diagnosis and treatment of oral diseases that do not respond to conventional dental or maxillofacial surgical procedures. The practice of oral medicine will provide optimal health to all people through the diagnosis and management of oral diseases.

Oral Diagnosis:

Oral Diagnosis is art of using scientific knowledge of identifying oral disease process and distinguishing one disease from other.

Oral Radiology:

Radiology is a science dealing with x-rays and their uses in diagnosis and treatment of diseases in relation to oro-facial diseases.

1. AIM

- 1.1 To train dental graduates to ensure higher competence in both general and special areas of Oral Medicine and Radiology
- 1.2 To prepare a candidate for teaching, research and clinical abilities including prevention of various oral and maxillofacial lesions.

2. GENERAL OBJECTIVES OF THE COURSE

At the end of 3 years of training the candidate should be able to acquire -

- 2.1 Training programme in Oral Medicine, Diagnosis and Radiology is structured to achieve knowledge and skill in theoretical and clinical laboratory, attitude, communicative skills and ability to research with understanding of social, cultural, educational and environmental background of the society.
- 2.2 Have acquired adequate knowledge and understanding of applied basic and systemic medical science, knowledge in general and particularly of head and neck.
- 2.3 The postgraduates will be able to provide medicinal therapy for patients with competence and working knowledge with understanding of applied medical, behavioral

and clinical science that are beyond the treatment skills of the general BDS graduate and MDS graduate of other specialities, to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment, after care and referral to deliver comprehensive care to patients.

3. KNOWLEDGE

- 3.1 The candidate should possess knowledge of applied basic and systemic medical sciences on human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology and Microbiology, Virology, Health and Diseases Nutrition, Behavioural science, age changes, genetics, Immunology, Congenital defects and syndrome and Anthropology, Bioengineering, Bio-medical and Biological Principle and applications to Dental material science.
- 3.2 Ability to diagnose and planned treatment
- 3.3 Ability to read and interpret a Radiograph and other investigations for the purpose of diagnosis and treatment plan.
- 3.4 Should have essential knowledge on ethics, laws and Jurisprudence and forensic odontology.
- 3.5 Identify cases, which are outside the area of his speciality / competence and refer those appropriate specialists.
- 3.6 To have acquired adequate knowledge and understanding of applied basic and systematic medical science knowledge in general and particular to head and neck.
- 3.7 Should attend continuing education programs, seminars and conferences related to Speciality, thus updating himself.
- 3.8 Teach and guide his/her team, colleague and other students.
- 3.9 Should be able to use information technology tools and carry out research both basic clinical, with the aims of publishing his/her work and presenting his/her work at various scientific forums.
- 3.10 Should have essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal waste, keeping in view the risks of transmission of Hepatitis and HIV.
- 3.11 Should have a sound knowledge for application of pharmacology. Effects of drugs on oral tissue and systems of body and for medically compromised patients.

3.12 Theoretical, Clinical and practical knowledge of all oro-facial lesions, diagnostic procedures pertaining to them and latest information of imaging modules and recent advances in treatment modalities

4. SKILLS:

4.1 The candidate should be able to examine the patients, investigate the patient systemically, analyze the investigation results, radiology, diagnose the ailment, plan a treatment, communicate it with the patient and execute it.

4.2 Understand the prevalence and prevention of diseases of Cranio-mandibular system.

4.3 The candidate should be able to restore lost functions of stomatognathic system namely mastication, speech, appearance and psychological comforts. By understanding biological, biomedical, bioengineering principles and systemic condition of the patient to provide a quality health care of the craniofacial region.

4.4 The candidate should be able to interact with other speciality including medical speciality congenital defects, Temporo-mandibular joint syndromes, esthetics, implant supported prosthetics and problems of psychogenic origin.

4.5 Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in the specialty.

4.6 Identify target diseases and awareness amongst the population.

4.7 Three important skills need to be imparted -

4.7.1 Diagnostic skill in recognition of oral lesions and their management.

4.7.2 Research skills in handling scientific problems pertaining to oral treatment.

4.7.3 Clinical and Didactic skills in encouraging younger doctors to attain learning objectives.

5. ATTITUDES :

5.1 Adopt ethical principles in Oral Medicine Practice. Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or region of patient.

5.2 Willing to share knowledge and clinical experience with professional colleagues.

- 5.3 Willing to adopt new methods and techniques from time to time based on scientific research, which is in patient's best interest.
- 5.4 Respect patient's rights and privileges including patient's right to information and right to seek second opinion.
- 5.5 The positive mental attitude and the persistence of continued learning need to be inculcated.

6. COMMUNICATIVE ABILITIES :

- 6.1 Develop communication skills, in particular, to explain treatment option available in management.
- 6.2 Provide leadership and get the best out of his group in a congenial working atmosphere.
- 6.3 Should be able to communicate in simple understandable language with the patient to explain the principles of Oral Medicine to the patient. He should be able to guide and counsel the patient with regard to various treatment modalities available.
- 6.4 Develop the ability to communicate with professional colleagues through various media like Internet, e-mail, video conference and etc. to render the best possible treatment.

7. COURSE :

The candidates shall under go training for Three academic years with satisfactory attendance above 80 % for each year.

- 7.1 The course includes epidemiology and demographic studies, research and teaching skills.
- 7.2 Ability to prevent, diagnose and treat with after care for all patients for control of diseases and / or treatment related syndromes with patient satisfaction for restoring functions of stomatognathic system.
- 7.3 The program outline addresses the knowledge, procedural and operative skills needed in Masters Degree in Oral Medicine, Diagnosis and Radiology. A minimum of Three years of formal training through a graded system of education as specified will enable the trainee to achieve Masters Degree, competently and have the necessary skills / knowledge to update themselves with advancements in the field. The course content has been identified and categorized as Essential knowledge as given below-

8. SYLLABUS DISTRIBUTION:

Paper I - Applied Basic Sciences

(Applied Anatomy, Physiology, Biochemistry, Pathology, and Pharmacology.)

Paper II - Differential Diagnosis, Diagnostic Methods & Oral and Maxillofacial Radiology.

Paper III - Oral Medicine, Therapeutics and Laboratory Investigations.

Paper IV - Essay

PRACTICALS / CLINICALS:

1. The Student is Trained to arrive at Proper Diagnosis by following a Scientific and Systematic procedure of History taking and Examination of the Oro-facial region. Training is also imparted in management wherever possible. Training also shall be imparted on Advanced and Specialized diagnostic procedures.
2. Training shall be imparted in various Radiographic procedures, Interpretation of Radiographs and Specialized imaging techniques.
3. The Postgraduate student should Observe, Assist and Perform Procedural and Operative Skills under Supervision of MDS Teacher / Staff.
4. In view of the above, Each student shall maintain a Record of work done, which shall be **Evaluated at the time of University Practical examination**

5. Monitoring Learning Progress-

It is essential to monitor the learning progress of each student through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring should be done by the Postgraduate staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment should be done using checklists that assess various aspects.

6. Other than the routine daily OPD and Radiographs taking procedure, The following is the Minimum Prescribed work to be completed and Recorded in the Log / Record Book before appearing in the subject at the University Examination. The Academic and Clinical work record as well as the Radiographs should be preserved in good condition and shall be produced at the time of Final MDS Practical Examination.

Minimum Requirement of Academic & Clinical Work to be carried out by the Postgraduate (MDS) Student of Oral Medicine, Diagnosis And Radiology in Each Year

Sr. No.	Particulars	FIRST YEAR	SECOND YEAR	THIRD YEAR
1	Seminar	10	10	05
2	Case Presentation	10	10	05
3	Journal Article Presentation	10	10	05
4	Research Project / Study	01	01	01
5	Library Dissertation	01	-	-
6	Case History Recording	100	100	50
7	IOPA Perform & interpretation	500	500	100
8	Other Intra oral Radiographs			
	Bitewing View	50	50	50
	Occlusal View	50	50	50
9	RVG of Important cases	50	50	50
10	Extra oral Radiographs of Important cases	50	50	100
11	Digital / Advance Imaging of Important cases	20	20	20
12	Long case History (major)	25	25	25
13	Short case History (minor)	25	25	25
14	Biopsy-Incisional / Excisional	50	50	50
15	FNAC	50	50	50
16	Administration of intra -muscular and intravenous injections	05	10	10

17	Administration of oxygen and life saving drugs to the patients	02	05	05
18	Clinical Demonstrations to Third and Fourth Year BDS Students	10	10	10
19	Lectures for Third and Fourth Year BDS Students	10	10	10
20.	Dental Cast/Model preparations	05	-	-
21.	Main Dissertation	-	01	-
22.	IAOMR Conference	01	01	01
23.	National PG Symposium	01	01	01
24.	Other Conferences/ Symposium/ Update (Optional)	01	01	01
25.	Paper Presentation in conferences	01	01	01
26.	Chart / Model Display in conferences	01	01	01
27.	Article Publication in National / International Journal	01	01	01

The allied postings of MDS students(II Year) in other Medical Departments shall be as follows:

1)Department of General Radiology-One Month

*Basic training of CT,MRI,USG,Contrast Radiography

2)Department of General Medicine-One Month

3) Department of Skin-One Month

4) Department of Radiotherapy-One Month

5)Department of Physiotherapy-15 Days

*Basic training of TENS,short wave diathermy etc

