



MAEER PUNE'S  
**MAHARASHTRA INSTITUTE OF DENTAL  
SCIENCE AND RESEARCH LATUR INDIA**



**(DENTAL COLLEGE & HOSPITAL)**

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**COMPETENCIES**

At the completion of the undergraduate training programme the graduates shall be competent in the following:-

**General Skills**

- Apply knowledge & skills in day to day practice
- Apply principles of ethics
- Analyse the outcome of treatment
- Evaluate the scientific literature and information to decide the treatment.
- Participate and involve in professional bodies
- Self assessment & willingness to update the knowledge & skills from time to time
- Involvement in simple research projects
- Minimum computer proficiency to enhance knowledge and skills
- Refer patients for consultation and specialised treatment
- Basic study of forensic odontology and geriatric dental problems

**Practice Management**

- Evaluate practice location, population dynamics & reimbursement mechanism
- Co-ordinate & supervise the activities of allied dental health personnel
- Maintain all records
- Implement & monitor infection control and environmental safety programs
- Practice within the scope of one's competence

**Communication & Community Resources**

- Assess patients goals, values and concerns to establish rapport and guide patient care
- Able to communicate freely, orally and in writing with all concerned
- Participate in improving the oral health of the individuals through community activities.

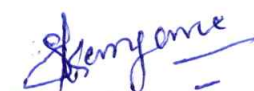
**Patient Care - Diagnosis**

- Obtaining patient's history in a methodical way
- Performing thorough clinical examination
- Selection and interpretation of clinical, radiological and other diagnostic information
- Obtaining appropriate consultation
- Arriving at provisional, differential and final diagnosis

**Patient Care - Treatment Planning**

- Integrate multiple disciplines into an individual comprehensive sequence treatment plan using diagnostic and prognostic information
- Ability to order appropriate investigations

  
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### **Patient Care - Treatment**

- Recognition and initial management of medical emergencies that may occur during dental treatment
- Perform basic cardiac life support
- Management of pain including post operative
- Administration of all forms of local anaesthesia
- Administration of intra muscular and venous injections
- Prescription of drugs, pre operative, prophylactic and therapeutic requirements
- Uncomplicated extraction of teeth
- Transalveolar extractions and removal of simple impacted teeth
- Minor oral surgical procedures
- Management of oro-facial infections.
- Simple orthodontic appliance therapy
- Taking, processing and interpretation of various types of intra oral radiographs
- Various kinds of restorative procedures using different materials available
- Simple endodontic procedures
- Removable and fixed prosthodontics
- Various kinds of periodontal therapy

### **ORAL MEDICINE & RADIOLOGY**

- > Able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned speciality for their management
- > Should have an adequate knowledge about common laboratory investigations and interpretation of their results.
- > Should have adequate knowledge about medical complications that can arise while treating systemically compromised patients and take prior precautions/ consent from the concerned medical specialist.
- > Have adequate knowledge about radiation health hazards, radiation safety and protection.
- > Competent to take intra-oral radiographs and interpret the radiographic findings
- > Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiograph and sialography.
- > Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation
- > Should be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law

### **PAEDIATRIC & PREVENTIVE DENTISTRY**

- > Able to instill a positive attitude and behaviour in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.
- > Able to guide and counsel the guardian/parents with regard to various treatment modalities including different facets of preventive dentistry.
- > Able to treat dental diseases occurring in the child patient.
- > Able to manage the physically and mentally challenged/disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.

### **ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS**

- > Understand about normal growth and development of facial skeleton and dentition.
- > Pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment
- > Diagnose the various categories of malocclusion
- > Able to motivate and explain to the patient (and parent or guardian) about the necessity of treatment
- > Plan and execute preventive orthodontics (space maintainers or space regainers)
- > Plan and execute interceptive orthodontics (habit breaking appliances)
- > Manage treatment of simple malocclusion such as anterior spacing using removable appliances
- > Handle delivery and activation of removable orthodontic appliances

  
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- Diagnose and appropriately refer patients with complex malocclusion to the specialist

#### **PERIODONTOLOGY**

- Diagnose the patients periodontal problem, plan and perform appropriate periodontal treatment
- Competent to educate and motivate the patient
- Competent to perform thorough oral prophylaxis, subgingival scaling, root planning and minor periodontal surgical procedures
- Give proper post treatment instructions and do periodic recall and evaluation
- Familiar with concepts of osseointegration and basic surgical aspects of implantology

#### **PROSTHODONTICS AND CROWN & BRIDGE**

- Able to understand and use various dental materials
- Competent to carry out treatment of conventional complete and partial removable dentures and fabricate fixed partial dentures
- Able to carry out treatment of routine prosthodontic procedures.
- Familiar with the concept of osseointegration and the value of implant-supported Prosthodontic procedures

#### **CONSERVATIVE DENTISTRY AND ENDODONTICS**

- Competent to diagnose all carious lesions
- Competent to perform Class I and Class II cavities and their restoration with amalgam
- Restore class V and Class III cavities with glass ionomer cement
- Able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures)
- Able to perform RCT for anterior teeth
- Competent to carry out small composite restorations
- Understand the principles of aesthetic dental procedures

#### **ORAL & MAXILLOFACIAL SURGERY**

- Able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems
- Able to diagnose, manage and treat patients with basic oral surgical problems
- Have a broad knowledge of maxillofacial surgery and oral implantology
- Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills
- Should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner
- Understand and practice the basic principles of asepsis and sterilisation
- Should be competent in the extraction of the teeth under both local and general anaesthesia
- Competent to carry out certain minor oral surgical procedure under LA like trans-alveolar extraction, frenectomy, dento alveolar procedures, simple impaction, biopsy, etc.
- Competent to assess, prevent and manage common complications that arise during and after minor oral surgery
- Able to provide primary care and manage medical emergencies in the dental office
- Familiar with the management of major oral surgical problems and principles involved in in-patient management

#### **PUBLIC HEALTH DENTISTRY**

- Apply the principles of health promotion and disease prevention
- Have knowledge of the organisation and provision of health care in community and in the hospital service
- Have knowledge of the prevalence of common dental conditions in India.
- Have knowledge of community based preventive measures
- Have knowledge of the social, cultural and environmental factors which contribute to health or illness.
- Administer oral hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients about the aetiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

  
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