

## **PROGRAM SPECIFIC OUTCOMES**

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

### **General skill**

- Apply knowledge & skills in day to day practice.
- Apply principles of ethics.
- Analyze the outcome of treatment.
- Evaluate the scientific literature and information to decide the treatment.
- Participate and involve in professional bodies.
- Self-assessment and willingness to update the knowledge and skills from time to time.
- Involvement in simple research projects.
- Minimum computer proficiency to enhance knowledge and skills.
- Refer patients for consultation and specialized 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 and Community resources**

- Assess patient's 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's comprehensive sequence treatment plan using diagnostic and prognostic information. Ability to order appropriate investigations.

## **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 anesthesia.

Administration of intra muscular and venous injections.

Prescription of drugs, pre- operative, prophylactic and therapeutic requirements.

Uncomplicated extraction of teeth.

Trans alveolar 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 specialty 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 radiography 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 behavior 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 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/ guardian) about the necessity of treatment.
- Plan and execute preventive orthodontics (space maintainers or space retainers)
- Plan and execute interceptive orthodontics (habit breaking appliance)
- Manage treatment of simple malocclusion such as anterior spacing using removable appliances.
- Handle delivery and activation of removable orthodontic appliances.
- 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 treatment.
- Competent to perform thorough oral prophylaxis, sub gingival 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 procedure.
- 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 sterilization.
- Should be competent in the extraction of the teeth under both local and general anesthesia.
- Competent to carry out certain minor oral surgical procedures 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 organization 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 scaling.

- Educate patients about etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.