



MALLA REDDY INSTITUTE OF DENTAL SCIENCES

(SPONSORED BY : CHANDRAMMA EDUCATIONAL SOCIETY)

Recognized by Dental Council of India, New Delhi, Ministry of Health & Family Welfare Govt. of India.
Affiliated to Kaloji Narayana Rao University of Health Sciences, Warangal, Telangana.

PROGRAM SPECIFIC LEARNING OUTCOMES

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Program Specific Learning Outcomes and learning outcomes of Bachelor of Dental Surgery (BDS)

The dental graduates during training in the institutions should acquire adequate knowledge, necessary skills and reasonable attitudes which are required for carrying out all activities appropriate to general dental practice involving the prevention, diagnosis and treatment of anomalies and diseases of the teeth, mouth, jaws and associated tissues. The graduate also should understand the concept of community oral health education and be able to participate in the rural health care delivery programmes existing in the country.

OBJECTIVES:


The objectives are dealt under three headings (a) Knowledge and understanding (b) skills and (c) Attitudes.

(A) KNOWLEDGE AND UNDERSTANDING:

The graduate should acquire the following during the period of training.

1. Adequate knowledge of the scientific foundations on which dentistry is based and good understanding of various relevant scientific methods, principles of biological functions and be able to evaluate and analyse scientifically various established facts and data.
2. Adequate knowledge of the development, structure and function of the teeth, mouth and jaws and associated tissues both in health and disease and their relationship and effect on general state of health and also bearing on physical and social well being of the patient.
3. Adequate knowledge of clinical disciplines and methods which provide a coherent picture of anomalies, lesions and diseases of the teeth, mouth and jaws and preventive diagnostic and therapeutic aspects of dentistry.
4. Adequate clinical experience required for general dental practice.




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5. Adequate knowledge of the constitution, biological function and behaviour of persons in health and sickness as well as the influence of the natural and social environment on the state of health in so far as it affect dentistry.

(B) SKILLS:

A graduate should be able to demonstrate the following skills necessary for practice of dentistry.

1. Able to diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible.
2. Acquire the skill to prevent and manage complications if encountered while carrying out various surgical and other procedures.
3. Possess skill to carry out certain investigative procedures and ability to interpret laboratory findings.
4. Promote oral health and help prevent oral diseases where possible.
5. Competent in the control of pain and anxiety among the patients during dental treatment.

(C) ATTITUDES:

A graduate should develop during the training period the following attitudes.

1. Willing to apply the current knowledge of dentistry in the best interest of the patients and the community.
2. Maintain a high standard of professional ethics and conduct and apply these in all aspects of professional life.
3. Seek to improve awareness and provide possible solutions for oral health problems and needs through out the community.
4. Willingness to participate in the CPED Programmes to update the knowledge and professional skill from time to time.


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5. To help and participate in the implementation of the national oral health policy.

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

Analyze 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 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 & Community Resources

Assess patients goals, values and concerns to establish rapport and guide patient care

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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

Able 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 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, radiations 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

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- 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 parents in regards to various treatment modalities including different facets of preventive dentistry.
- Able to treat dental diseases occurring in 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 malocclusion categories
- Able to motivate and explain to the patient (and parent) 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
- 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
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- 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 the inpatient management
- PUBLIC HEALTH DENTISTRY**
- Apply the principles of health promotion and disease prevention



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- 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 env. Factors which contribute to health or illness.
- Administer and hygiene instructions, topical fluoride therapy and fissure sealing.
- Educate patients concerning the aetiology and prevention of oral disease and encourage them to assure responsibility for their oral health.



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The objective of the post-graduate training is to train a student so as to ensure higher competence in both general and special area of interest and prepare him or her for a career in teaching, research and speciality practice. A student must achieve a high degree of clinical proficiency in the subject and develop competence in research and its methodology in the concerned field.

The objectives to be achieved by the candidate on completion of the course may be classified as under:-

- (a) Knowledge (Cognitive domain)
- (b) Skills (Psycho motor domain)
- (c) Human values, ethical practice and communication abilities

(a) KNOWLEDGE._

- (i) demonstrate understanding of basic sciences relevant to speciality;
- (ii) describe etiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children;
- (iii) identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment;
- (iv) recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist;
- (v) update knowledge by self study and by attending courses, conferences and seminars pertaining to speciality;
- (vi) undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering;

(b) SKILLS:

(i) take a proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition;

(ii) acquire adequate skills and competence in performing various procedures as required in the speciality.

(c) HUMAN VALUES, ETHICAL PRACTICE AND COMMUNICATION ABILITIES.

(i) adopt ethical principles in all aspects of practice;

(ii) foster professional honesty and integrity;

(iii) deliver patient care irrespective of social status, caste, creed, or religion of the patient;

(iv) develop communication skills, to explain various options available and obtain a true informed consent from the patient;

(v) provide leadership and get the best out of his team in a congenial working atmosphere;

(vi) apply high moral and ethical standards while carrying out human or animal research;

(vii) be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed;

(viii) respect patient's rights and privileges including patient's right to information and right to seek a second opinion

The goals of the post-graduate training in various specialities is to train the graduate in Dental Surgery who will,

(i) practice respective speciality efficiently and effectively, backed by scientific knowledge and skill;

(ii) Exercise empathy and a caring attitude and maintain high ethical standards;

(iii) Continue to evince keen interest in professional education in the speciality and allied specialities whether in teaching or practice;

(iv) Willing to share the knowledge and skills with any learner, junior or a colleague;



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(v) To develop the faculty for critical analysis and evaluation of various concepts and views and to adopt the most rational approach.



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