Program- wise learning outcome Department of General Anatomy

Aim: The student should gain the knowledge and insight into the functional anatomy, functional histology and functional embryology of normal human.

Objective: Training program in general anatomy is structured to achieve the following four objectives:

1. Knowledge:

- 1. To have acquired adequate knowledge and understanding of human anatomical structures.
- 2. To know the microscopic structure of various tissues.
- 3. To have an idea about the basis of abnormal development, effect of teratogens, genetic mutation and environmental hazards.

2. Attitudes:

- 1. Develop attitude to adopt ethical principles in anatomy subject.
- 2. Willing to share the knowledge with their colleagues.
- 3. Develop attitude towards teachers and seniors fellow colleagues.
- 4. Willing to adopt the discipline.

3. Communication abilities:

- 1. Develop adequate communication skills with teachers and fellow.
- 2. To overcome the stage fear and barrier of language.

4.Skills:

- 1. Perform various techniques of dissection.
- 2. To identify various tissue in microscope.
- 3. To detect various congenital anomalies.

Assistant Professor
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Ahmedabad - 380 016.

Program -wise learning outcome General Pathology Department

Aim:

At the end of the course the student should be competent to:

Apply the scientific study of disease processes, which result in morphological and functional alterations in cells, tissues and organs to the study of pathology and the practice of dentistry.

To introduce the students to the exciting world of microbes. To make the students aware of various branches of microbiology, importance, significance and contribution of each branch to mankind and other field of medicine.

Objectives:

Enabling the student

- To demonstrate and apply basic facts, concepts and theories in the field of
 Pathology.
- To recognize and analyze pathological changes at macroscopical and microscopical levels and explain their observations in terms of disease progresses.
- To integrate knowledge from the basic sciences, clinical medicine and dentistry in the study of Pathology.
- 4. To demonstrate understanding of the capabilities and limitations of morphological Pathology in its contribution to medicine, dentistry and biological research.
- To demonstrate ability to consult resource materials outside lectures, laboratory and tutorial classes.

Knowledge:

The candidate should possess knowledge of applied basic and systematic medical sciences.

- Apply the knowledge gained in related medical subjects like General medicine, General surgery and Dental subjects like Oral Pathology, Community Dentistry, Periodontics, Oral surgery, Pedodontics, Conservative dentistry and Oral medicine.
- Ability to recognize and analyze pathological changes at macroscopical and microscopical levels and explain their observations in terms of disease progresses.
- 3. Understand and practice various methods of sterilization and disinfection in dental clinics.

4. Have a sound understanding of various infectious diseases and lesions in the oral cavity.

Attitudes:

- 1. Willing to share the knowledge and clinical experience with professional colleagues.
- 2. Willing to adopt new methods and techniques in Pathology and Microbiology from time to time based on scientific research, which is in patient's best interest.
- 3. Respect patient's rights and priviledges including patient's right to information and right to seek second opinion.

Skills:

- Students should have acquired the skill to interpret the laboratory investigations and apply in the treatment planning of the patients.
- 2. Students should have acquired the skill to understand the disease processes.
- 3. Students should have acquired the skill to diagnose, differentiate various oral lesions.
- 4. Should be able to select , collect and transport clinical specimens to the laboratory.
- 5. Should be able to carry out proper aseptic procedures in the dental clinic.

Dr. Harshad P. Patel
M.B.B.S., MD. (Path)
Assistant Professor
Pathology Department
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ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY

Objectives:

- 1. To train a post graduate dental surgeon so as to ensure higher competence in Oral and maxillofacial pathology & oral microbiology dealing with the nature of oral diseases, their
- 2. An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and perioral tissues, to carry out routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultra structural
- 3. He/she is expected to have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects, a working knowledge on current databases, automated data retrieval systems, referencing and skill in writing scientific papers.
- 4. He/she is expected to present scientific data pertaining to the field, in conferences both as poster and verbal presentations and take part in group discussions.
- 5. Undergraduate students are expected to diagnose basic oral pathologies and correlate them grossly with clinical features.

Skills:

- 1. Handling different specimens acquired by Biopsy, Exfoliative cytology, FNAC or swab.
- 2. Examining biopsy specimen and writing gross macroscopic description and correlating with clinical and radio graphic findings.
- 3. Knowledge about histopathological lab techniques which include tissue processing, embedding, slide preparation and staining.
- 4. Evaluating histopathological features of lesion under microscope and formulation of final report based on histopathological, clinical and radiographical findings.
- 5. Evaluating cytosmear under microscope and formulate cytological report.
- 6. Handling microbiological swab samples, staining and microscopic identification of oral microorganisms.
- 7. Undergraduate students are trained to identify teeth, developmental anomalies of oral and maxillo-facial region and gross identification of oral lesions.

Values and Attitude:

- 1. Adopt ethical principles in all aspects of oral pathology practice, professional honesty and integrity are to be fostered.
- 2. Develop attitude to seek opinion from allied medical and dental specialists as and when required.
- 3. Willing to share knowledge and clinical experience with professional colleagues.
- 4. Respect patient's rights and privileges including right to information and preservation of patient's confidentiality.

Dr. SIMA ODEDRA

Asst. Professor & Head In-Charge Department of Oral Pathology, Government Dental College & Hospital, Ahmedabad-380 016.

Program -wise learning outcome General Medicine Department

Aim:

To acquaint the students with the various bodily systems, disorders associated with those systems, and to educate students about numerous diseases, their significance in the world of Modern Medicine.

Obtain the medical knowledge/Definitions of signs, symptoms, diagnosis, differential diagnosis treatment & prognosis of various diseases, its systemic changes in human body and apply it in the practice of dentistry

The student should be capable of handling medical emergencies encountered in dental practice.

Objectives:

- To exhibit honesty and integrity in all contacts with patients, their families and coworkers
 with whom dental students must come into contact in the course of their practice and
 career.
- 2. A dental student should be taught in such a manner that he/she is able to effectively and respectfully communicate with patients from different cultural backgrounds and record the detail Medical History, Vitals, describe and demonstrate the steps for performing General and Systemic examination of patients and to train the student to analyze the history and systemic examination.
- 3. Students should be capable of suspecting by sight and superficial examination of the body diseases of the Cardiovascular system, Respiratory system, Gastrointestinal system, Hematological, Renal etc.
- 4. Students should be capable of handling medical emergencies encountered in dental practice.
- To illustrate and apply fundamental medical facts, principles, and concepts which will help the student to understand the various diseases, their relevance to routine dental practice.
- To integrate knowledge from the basic sciences like anatomy, physiology, biochemistry, pharmacology, general pathology correlate with Clinical/General medicine.

Knowledge:

The candidate should possess the Medical Knowledge and skills to expand understanding of medical diseases.

1. Demonstrate the ability to conduct a focused medical history and detail general physical examination(including build, nourishment, pulse, BP, respiration, clubbing, cyanosis, jaundice, lymphadenopathy) appropriate to the patient's chief complaint(s) and the history of the present illness(es) in General Medicine.

- 2. Have a sound understanding of various systemic diseases pertaining to RS,CVS,GIT,CNS, Renal system, Hematology, Infectious diseases, Metabolic, Endocrine and Nutritional diseases.
- 3. Demonstrate the ability to apply appropriate clinical pharmacological principles in the selection of drugs to treat common medical problems
- 4. Ability to choose principles of general medicine in making diagnostic and management decisions as applicable to dentistry
- Ability to recognize/identify, evaluate and manage medical emergencies in dental practice.

Attitudes:

- 1. Willing to impart information and clinical expertise to peers in the field.
- 2. Willing to accept new advances and techniques based on scientific researches while managing patients.

Skills:

- 1. Obtain an accurate and complete medical history.
- 2. Perform complete and organ-system specific examinations.
- 3. Students should have acquired the skill to understand the signs and symptoms and complications of diseases.
- Students should have acquired the skill to diagnose and differentiate various oral manifestations of systemic diseases.
- 5. Using the patient's history, physical exam, laboratory and imaging results to construct appropriate differential diagnoses
- 6. Identify risk factors for disease, select appropriate tests for detecting patients at risk for or in the early stage of specific diseases, and determine strategies for responding appropriately including prevention strategies while managing dental patients.
- Recognize patients with immediately life-threatening or serious conditions requiring immediate medical care and institute appropriate initial therapy while managing dental patients.

Incharge PT Prof.
Dept. of Gen. Medicine
Govt. Dental College & Hospital
Civil Hospital Campus
Ahmedabad-16.





Program - wise learning outcomes Prosthodontics and Crown & Bridge

Aim:

To train the students so as to ensure higher level of competence in speciality areas of Prosthodontics and prepare them with teaching, research and clinical abilities including prevention and after care in removable prosthodontics, fixed prosthodontics, implantology, maxillofacial prosthodontics and esthetic dentistry.

Objectives:

To achieve knowledge and skill in theoretical and clinical, laboratory, attitude, communicative skills and ability to perform research with good understanding of social, cultural, educational and environmental background of the society.

- To have adequate acquired knowledge and understanding of applied, basic and systemic medical sciences, both in general and in particularly of head and neck region.
- 2. The students should be able to provide Prosthetic therapy for patients with competence and working knowledge with understanding of applied medical, behavioural and clinical sciences.
- To demonstrate evaluative and judgement skills in making appropriate decisions regarding the prevention, treatment, aftercare and referrals to deliver comprehensive care to patients.

Knowledge:

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 of various systems of the body, principles in Surgery and Medicine, Pharmacology, nutrition, behavioural science, age changes, genetics, Immunology, congenital defects and syndromes, Anthropology, Bioengineering, Biomedical and Biological principles.
- Of various Dental Materials used in speciality and be able to provide appropriate indications, understand the manipulation characteristics, compare with other materials available and be adept with recent advancements of the same.
- Should have knowledge and practice of history taking, diagnosis, treatment planning and prognosis, record maintenance of oral, craniofacial and systemic region.

4. Instructions for patients in aftercare and preventive Prosthodontics and management of failed restorations shall be possessed by the students.

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DEPT. OF PROSTHODONTICS





- The theoretical knowledge and clinical training shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioural, psychological, preventive and social aspects of removable and fixed prosthodontics, maxillofacial prosthodontics and implantology.
- 6. Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.
- 7. Should have essential knowledge of ethics, laws, and jurisprudence and forensic odontology.
- 8. Should know the general health conditions and emergency as related to prosthodontic treatment like allergy of various materials and first-line management of aspiration of prosthesis.
- Should be able to use information technology tools and carry out research both in basic and clinical areas with the aim of publishing his/her work as well as presenting these at various scientific forums.
- 10. Should have essential knowledge of personal hygiene, infection control, prevention of cross infection and safe disposal of the waste keeping in view the risk of transmission of potential, communicable and transmissible infections like Hepatitis, HIV-AIDS, Coronavirus Disease, etc.

Attitudes:

- 1. To adopt ethical principles in Prosthodontic practice, professional honesty, credibility, and integrity.
- 2. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- 3. Willing to share the knowledge and clinical experience with professional colleagues.
- 4. Should pursue the research in a goal to contribute significant, relevant and useful information, concept or methodology to the scientific fraternity.
- 5. Should be able to demonstrate and follow evidence-based practice while treating patients.
- 6. Should be willing to adopt new methods and techniques in prosthodontics for patient's best interest.
- 7. Should respect patient's rights and privileges, including right to information and right to seek second opinion.

Communication Abilities:

- 1. Should be able to communicate in simple, understandable language with the patient and should be able to explain the principles of prosthodontics to the patient and should be able to guide and counsel the patient with regards to various treatment modalities available.
- 2. To develop the ability to communicate with professional colleagues through electronic media like internet, e mails, videoconferences, etc.
- 3. Should demonstrate good explanatory and demonstrating ability as a teacher.

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DR. RUPAL SHAH
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Skills:

The candidate should be able to examine the patients, investigate systemically, analyse the investigation results, diagnose the ailment, plan the treatment, communicate it with

2. Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT for

treatment planning based on these.

3. Should be able to restore lost functions of stomatognathic system like mastication, speech, appearance and psychological comfort to provide quality health-care in the

4. To identify the target diseases and create awareness amongst the population regarding

5. To perform clinical and laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis. He/ She should have required skill for performing various clinical and laboratory procedures in fixed, removable, maxillofacial Prosthodontics and Implantology.

6. To carry out necessary adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthetic

procedures.

7. 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

their speciality area with a patient centric approach.

8. Should be able to demonstrate good interpersonal, communication skills and team approach in interdisciplinary care by interacting with other specialities for planned team management of patient for craniofacial, oral & congenital defects, temporomandibular joint syndromes, esthetics, Implant supported Prosthetics and problems of Psycogenic origins.

9. Should be able to critically appraise published articles and understand various components of different types of articles to be able to gather the weight of evidence from

the same.

PROFESSOR AND HEAD DEPT. OF PROSTHODONTICS





Program-based learning outcomes of Conservative Dentistry and Endodontics

Aim:

To train students to acquire expertise in the subject of Conservative Dentistry and Endodontics so that they exhibit good clinical skills and develop interest in teaching and research.

Objectives:

- 1. Training program in Conservative dentistry and Endodontics is structured to achieve knowledge and skill in theoretical and clinical performance, attitude, communicative skills and ability to research with understanding of social, cultural, educational and environmental background of the society.
- 2. To have acquired adequate knowledge and understanding of applied basic and medical sciences, in general and in particular to head and neck for procedures which require endodontic surgery, administration of local anesthesia, prescription of medications etc.
- 3. The postgraduates will be able to provide pediatric dental services 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 MD graduate of other specialties, to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment aftercare and referral to deliver comprehensive care to patients.

Knowledge

The candidate should possess knowledge applied basic and medical sciences.

- 1. On human anatomy, embryology, histology, applied in general and particular to head and neck, Physiology & Biochemistry, Pathology and microbiology, virology, Health and diseases of various systems of the body (systemic) principles in surgery and medicine, Pharmacology, Nutrition, behavioral Science, Age changes, material science.
- 2. Ability to diagnose and planned treatment for patients requiring dental treatment in department of conservative dentistry and Endodontics.
- 3. Ability to read and interpret a radiograph and other investigations for the purpose of diagnosis and treatment plan.
- 4. Ability to diagnose failed procedures and providing corrective and definitive treatment with maintenance and regular follow ups.
- 6. To understand demographic distribution and target diseases of craniomandibular region related to pediatric patients.

Attitudes

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ASSOCIATE PROFESSOR
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& ENDODONTICS
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AHMEDABAD-16





- 1. Adopt ethical principles in endodontic practice. Professional honesty and Integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- 2. Willing to share the knowledge and clinical experience with colleagues.
- 3. Willing to adapt to advancing techniques in department of Conservative Dentistry and Endodontics from time to time based on scientific research, which is in patient's best interest.
- 4. Respect patient's rights and privileges including patient's right to information and right to seek second opinion.

Communication Abilities:

- 1. Provide complete knowledge and explain treatment options to parents / guardian.
- 2. Provide leadership and get the best out of his group in a congenial working atmosphere.
- 3. Should be able to communicate in simple understandable language with the patient and his/her parents / guardians. She/he should be able to guide and counsel the patient with regard to various treatment modalities available.

Skills

- The students should be able to examine the patients requiring dental treatment, investigate the
 patient systemically, analyze the investigation results, radiography, diagnose the ailment, plan a
 treatment, and communicate it with the patients and execute it.
- 2. Understand the prevalence and prevention of diseases of craniomandibular system related to Conservative Dentistry and Endodontics.
- The candidate should be able to restore the lost functions of the stomatognathic system namely speech, mastication etc. to provide a quality healthcare for cranio-facial region.
- 4. The candidate should be able to interact with other specialty including medical specialist for a planned team management of patients requiring expert opinion before surgical intervention, interdisciplinary treatment such as endo-perio, endo-prostho, endo-ortho and endo-surgical procedures.
- 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 their specialty area.
- 6. Familiarize with the biochemical, microbiologic and immunologic genetic aspects of patients within the Indian population.
- 7. Should have essential knowledge on ethics, laws and Jurisdiction.

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- 8. General health conditions and emergency as related to dental treatment.
- Identify social, cultural, economic, environmental, educational and emotional determinants of the
 patient and consider them in planning the treatment.
- 10. Identify cases, which are outside the area of his specialty/ competence and refer them to appropriate specialists.
- 11. Advice regarding case management involving surgical, interim treatment etc.
- 12. Competent specialization in team management of craniofacial design.
- 13. Should attend continuing education programs, seminars and conferences related to Endodontics and Conservative Dentistry, thus updating himself/herself.
- 14. Teach and guide his / her team, colleague and other students.
- 15. Should be able to use information technology tools and carry out research basic and clinical, with the aims of publishing his/her work and presenting his/her work at various scientific forum.
- 16. Should have essential knowledge of personal hygiene, infection control, prevent of cross infection and safe disposal of waste, keeping in view the risks of transfer of Hepatitis & HIV and other infectious diseases.
- 17. Should have a sound knowledge for the application of pharmacology. Effects of drugs on oral tissue and systems of a body and for medically compromised and dose adjustments for patients.

DR. SHIKHA KANODIA

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AHMEDABAD-16

Program based learning outcomes of Orthodontics & Dentofacial orthopaedics

Aim

 To train students to learn basic diagnosis and treatment planning of mild malocclusions and dentofacial deformities.

Objective

 Diagnose and treat common orthodontic problems by preventive, interceptive and corrective orthodontic procedures.

Knowledge

- The candidate should possess knowledge of applied basic dental sciences, applied aspects of growth, dental anatomy and physiology, applied anatomy and embryology, diet & nutrition, behaviour sciences, age changes, health and congenital diseases.
- Should have enough knowledge to plan and diagnosis & treat basic dental malocclusion.
- Should have knowledge regarding retention concept after finishing of orthodontic treatment.
- Should have enough knowledge of current treatment modalities in orthodontics.
 - Ability to interpret IOPA, OPG and Lat cephalogram for purpose of diagnosis.

Attitudes

- Develop an attitude to adopt professional personal ethics.
- Understand legal aspect related to the practice.
- Respect patients' rights regarding taking second opinion.
- To respect patients' confidentiality and practice code of conduct.
- Develop attitude to have opinion from other medical/dental specialities.

Communication Abilities

- Develop adequate skills to communicate with patients with different treatment needs according to type of dentofacial malocclusion and deformity.
- Ability to communicate with other specialists/ colleagues regarding complex type of cases via E-video, conferences and other platforms.

Skills

- Able to plan and execute interceptive orthodontics (habit breaking appliances).
- Able to manage & treat simple malocclusion such as anterior spacing using removable appliances.
- Able to handle delivery and activation of removable appliances.
- Able to diagnose and refer appropriately patients with complex malocclusion to the specialist.

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- Have enough knowledge about growth and growth spurts
- Able to perform basic wire bending to treat mild malocclusion.
- To deal with children (having knowledge of child psychology) & treat them in different way.
- Essential knowledge of law and ethics.
- Adequate knowledge about newer trends/advances in orthodontics.

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ORAL MEDICINE & RADIOLOGY

Objectives:

Diagnosis and nonsurgical management of pathosis arising from the jaw, oral mucosa, paraoral structure, oral manifestation of systemic disease & management of medically compromised patients.

Knowledge:

Theoretical, Clinical and practical knowledge of all oral mucosal lesions, skeletal involvement of maxillofacial region, diagnostic procedures pertaining to them and latest information of imaging modules.

Skills:

Three important skills need to be imparted in maxillofacial diseases

- 1. Diagnostic skill in recognition of oral diseases with radiographic diagnosis and their management
- 2. Research skills in handling scientific problems pertaining to oral treatment
- 3. Clinical and Didactic skills in encouraging younger doctors to attain learning objectives

Essential Knowledge:

Basic medical subjects, Oral Medicine, Clinical Dentistry, Management of Medical Emergencies, Oral Radiology techniques and Interpretation, Diagnosis of Oro – facial disorder

Attitudes:

The positive mental attitude and the persistence of continued learning need to be inculcated

Professor & Head-Oral Diagnosis and Radiology Dept Covt. Dental College & Hospital Ahmedabad-16.





Program -wise learning outcome Periodontology

Am:

To train students to ensure higher competence in the subject of Periodontology and prepare a candidate for teaching, research and clinical abilities including prevention in Dentistry.

Objective:

- 1. Training program in Periodontolgy is structured to achieve knowledge and skill in theoretical and clinical performance, attitude, communicative skills and ability to research with understanding of social, cultural, education and environmental background of the society
- 2. To have acquired adequate knowledge and understanding of applied basic and systematic medical science knowledge in general and particular to head and neck in patients.
- 3 The students will be able to provide periodontal dental services 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 MD graduate of other specialties, to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment aftercare and referral to deliver comprehensive care to patients.

Knowledge:

The candidate should possess knowledge applied basic and systematic medical sciences.

- 1. describe etiology, pathogenesis, diagnosis, and mangment of common periodontal disease with emphasis on Indian population.
- 2 Ability to diagnose and planned treatment for periodontal health in patients requiring dental treatment.
- 3 Ability to read and interpret a radiograph and other investigations for the purpose of diagnoses and treatment plan.
- 4. Familiarize with biochemical, microbiologic and immunologic genetic aspect of periodontal pathology.
- 5. Describe various preventive periodontal measures,
- 6. Ability to diagnose failed procedures and providing corrective and definitive treatment with maintainence and regular follow ups.





- 7. Describe interrelationship between periodontal disease and various systemic condition.
- E Describe periodontal hazards due to estrogenic cause and deleterious habits and prevention of it.

Attitudes:

- Adopt ethical principles in periodontal practice, professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- 2 Willing to share the knowledge and clinical experience with professional colleagues.
- 3. Willing to adopt new methods and technique in periodontology from time to time based on scientific research, which is in patient's best intrest
- 4. Respect patient's rights and privileges Including patient's right to information and right to seek second opinion.

Communication Abilities:

- 1. Provide complete knowledge and explain treatment options to patients
- 2. Provide leadership and get the best out of his group in a congenial working atmosphere.
- 3. Should be able to communicate in simple understandable language with the patients. He should be able to guide and counsel the patient with regard to various treatment modalities available.





Skills

- 1. The candidate should be able to take proper clinical history do do through examination intra orally, extra orally medical history evaluation to advice essential diagnostic procedures and interpret them to come reasonable diagnosis.
- Understand the prevalence and prevention of periodontal disease.
- 3. The candidate should be able to perform both non-surgical and education regarding periodontal disease, maintenance after the treatment.
- 4. The candidate should be able to perform both non-surgical and surgical procedures independently.
- 5. Should be able to give effective motivation and education regarding periodontal disease and maintenance after the treatment
- 6. Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal disease in dental patients within the Indian population.
- 7. Should have essential knowledge on ethics, laws and Jurisprudence.
- 8. General health conditions and emergency as related to periodontal treatment.
- 9. Identify social cultural economics, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
- 10. Identify cases ,which are outside to the area of his speciality and competence and refer them to appropriate specialitists
- 11. Advice regarding case management involving surgical, Interim treatment etc
- 12. Competent specialization in team management of periodontal disease
- 13. Should attend continuing education program seminars and conferences related to Periodontology in thus updating himself/herself.
- 14. Teach and guide his / her team, colleague and other students.





- 15. Should be able to use information technology tools and carry out research basic and clinical, with the aims of publishing his/her work and presenting his work at various forum.
- 16. Should have essential knowledge of personal hygiene, infection control, prevent of cross infection and safe disposal of waste, keeping view the risk of transfer of Hepatitis & HIV and other infectious diseases.
 - 17. Should have an ability to establish clinic/hospital, teaching department and practice management.
 - 18. Should have a sound knowledge for the application of pharmacology. Effects of drugs on oral tissue and systems of body and for medically compromised and dose adjustments for dental patient.

HEAD OF DEPARTMENT
DEPARTMENT OF PERIODONTOLOGY
GOVT. DENTAL COLLEGE AND HOSPITAL

ORAL AND MAXILLOFACIAL SURGERY

OBJECTIVES:

Training programme in Oral and Maxillofacial Surgery is designed to achieve following:

KNOWLEDGE & UNDERSTANDING:

- 1. Acquire knowledge related to medical subjects like pathology, microbiology and general medicine and apply it in the management of patients with surgical problems.
- 2. Knowledge of general surgical principles related to preoperative, perioperative and
- 3. Able to identify various other factors like cultural, social, economic, etc and their relevance in
- 4. Comprehensive knowledge of general infection control principles to prevent cross infection .
- 5. Essential knowledge of safe disposal of hospital waste.

ATTITUDE:

- 1. Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills.
- 2. Adopt ethical principles in practice- treatment to be given irrespective of caste, creed or religion of the patient.
- 3. Should be willing to share the knowledge and clinical experience with professional colleagues.
- 4. Respect patients 'rights and priviledges including right to information and right to seek second opinion.

COMMUNICATION ABILITIES

- 1. Provide complete knowledge of disease and treatment options available to patients.
- 2. Provide leadership and get the best out of his team in a congenial working atmosphere.
- 3. Develop the ability to communicate with professional colleagues
- 4. Develop the ability to teach undergraduates.

- 1. A trainee should have acquired the skill to examine any patient with an oral surgical problem and be able to understand requisition of various clinical and laboratory investigations; diagnose the problem, plan the treatment, communicate with the patient and execute the surgery.
- 2. Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practical skills currently available in their
- 3. Ability to assess, prevent and manage various complications during and after surgery.
- Able to provide primary care and manage medical emergencies in the dental office.

SKILLS:

- 1. A trainee should have acquired the skill to examine any patient with an oral surgical problem and be able to understand requisition of various clinical and laboratory investigations; diagnose the problem, plan the treatment, communicate with the patient and execute the surgery.
- 2. Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practical skills currently available in their speciality area.
- 3. Ability to assess, prevent and manage various complications during and after surgery.

4. Able to provide primary care and manage medical emergencies in the dental office.

ONAL ANCHLIA PROFESSOR & HEAD DEPT. OF ORAL & MAXILLOFACIAL SURGERY GOCH, AHMEDABAD DATE:





Program- wise learning outcome PUBLIC HEALTH DENTISTY

Aim:

To train students to ensure higher competence in the subject of Public Health Dentistry and prepare a candidate for teaching, research and clinical abilities including prevention in Dentistry.

Objectives:

- 1. Training program in Public Health dentistry is structured to achieve knowledge and skill in theoretical and clinical performance, attitude, communicative skills and ability to research with understanding of social, cultural, education, Preventive and environmental background of the community.
- 2. To have acquired adequate knowledge and understanding of applied basic and systematic medical science knowledge in general and particular to head and neck in Public Health patients.
- 3. The students will be able to provide community dental health services for society with competence and working knowledge with understanding of applied medical behavioral and clinical science to demonstrate evaluative and judgment skills in program planning and making appropriate decisions regarding prevention, treatment, aftercare and referral to deliver comprehensive care to community.

Knowledge:

- 1. Apply basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.
- 2. Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program.
- 3. Ability to conduct Oral Health Surveys in order to identify all the oral health problems

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affecting the community and find solutions using multi disciplinary approach. Ability to act as a consultant in community Oral Health, teach, guide and take part in research (both basic and clinical), present and publish the outcome at various scientific conferences and journals, both national and international level.

- 4. Apply the principles of health promotion and disease prevention
- 5. Have knowledge of the organization and provision of health care in community and in the hospital service
- 6. Have knowledge of the prevalence of common dental conditions in India.
- 7. Have knowledge of community based preventive measures
- 8. Have knowledge of the social, cultural and environment,. Factors which contribute to health or illness.
- 9. Administer and hygiene instructions, topical fluoride therapy and fissure sealing.
- 10. Educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.

Communication abilities:

At the conclusions of the course the student should be able to communicate the needs of the community efficiently, inform the society of all the recent methodologies in preventing oral disease.

Skills and Attitude:

The candidate should be able to

1. Take history, conduct clinical examination including all diagnostic procedures to arrive at diagnosis at the individual level and conduct survey of the community at state and national level of all conditions related to oral health to arrive at community diagnosis. Plan and perform all

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necessary treatment, prevention and promotion of Oral Heal at the individual and community level.

- 2. Plan appropriate Community Oral Health Program, conduct the program and evaluate, at the community level. Students should develop a positive attitude towards the problems of the society and must take responsibilities in providing health.
- 3. Ability to make use of knowledge of epidemiology to identify causes and appropriate preventive and control measures.
- 4. Develop appropriate person power at various levels and their effective utilization.
- 5. Conduct survey and use appropriate methods to impart Oral Health Education
- 6. Develop ways of helping the community towards easy payment plans, and followed by evaluation for their oral health care needs.
- 7. Develop the planning, implementation, evaluation and administrative skills to carry out successful community Oral Health Programs.

Values:

- 1. Adopt ethical principles in all aspects of Community Oral Health Activities.
- 2. To apply ethical and moral standards while carrying out epidemiological researches. 3. 4. 5.
- 3. Respect patient's rights and privileges including patients right to information and right to seek a second opinion.
- 4. Develop communication skills, in particular to explain the causes and prevention of oral diseases to the patient.
- 5.Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed and promote teamwork approach.

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DR. JANKI SHAH Mand.
Heed of the Department
Dept. of Public Health Destino
Q. D. C. & H. Ahmedebal





Program –wise learning outcome Pedodontics and Preventive Dentistry

Aim:

To train students to ensure higher competence in the subject of Pedodontics and Preventive Dentistry and prepare a candidate for teaching, research and clinical abilities including prevention in Dentistry.

Objective::

- 1. Training program in Pediatric dentistry is structured to achieve knowledge and skill in theoretical and clinical performance, attitude, communicative skills and ability to research with understanding of social, cultural, education and environmental background of the society
- 2. To have acquired adequate knowledge and understanding of applied basic and systematic medical science knowledge in general and particular to head and neck in pediatric patients.
- 3. The students will be able to provide pediatric dental services 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 MD graduate of other specialities, to demonstrate evaluative and judgment skills in making appropriate decisions regarding prevention, treatment aftercare and referral to deliver comprehensive care to patients.

Knowledge:

The candidate should possess knowledge applied basic and systematic medical sciences.

- 1. On human anatomy, embryology, histology, applied in general and particular to head and neck, Physiology & Biochemistry, Pathology and microbiology, virology, Health and diseases of various systems of the body (systemic) principles in surgery and medicine, Pharmacology, Nutrition, behavioral Science, Age changes, material science.
- 2. Ability to diagnose and planned treatment for pediatric patients requiring dental treatment.
- 3. Ability to read and interpret a radiograph and other investigations for the purpose of diagnoses and treatment plan.
- 4. Age changes and identify and treat dental problems early using growth spurts period for maximum advantage of the pediatric dental patients
- 5. Ability to diagnose failed procedures and providing corrective and definitive treatment with maintainence and regular follow ups.
- 6. To understand demographic distribution and target diseases of craniomandibular region related to pediatric patients.

Attitudes:

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- 1. Adopt ethical principles in pedodontic practice. Professional honesty and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- 2. Willing to share the knowledge and clinical experience with professional colleagues.
- 3. Willing to adopt new methods and techniques in pedodontics from time to time based on scientific research, which is in patient's best interest.
- 4. Respect patient's rights and privileges including patient's right to information and right to seek second opinion.

Communication Abilities

- 1. Provide complete knowledge and explain treatment options to parents / guardian.
- 2. Provide leadership and get the best out of his group in a congenial working atmosphere.
- 3. Should be able to communicate in simple understandable language with the patient and his/her parents / guardians. He should be able to guide and counsel the patient with regard to various treatment modalities available.

Skills:

- 1. The candidate should be able to examine the pediatric patients requiring dental treatment, investigate the patient systemically, analyze the investigation results, radiography, diagnose the ailment, plan a treatment, communicate it with the patient and execute it.
- 2. Understand the prevalence and prevention of diseases of craniomandibular system related to Pediatric dentistry.
- 3. The candidate should be able to restore the lost functions of the stomatognathic System namely speech, mastication ,etc to provide a quality health care for craniofacial region.
- 4. The candidate should be able to interact with other speciality including a medical speciality for a planned team management of patients for a craniofacial and oral acquired and congenital defects, orthodontic treatment etc.
- 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 their specialty area..
- 6. Familiarize with the biochemical, microbiologic and immunologic genetic aspects of pediatric dental patients within the Indian population.
- 7. Should have essential knowledge on ethics, laws and Jurisprudence.
- 8. General health conditions and emergency as related to pediatric dental treatment

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- Identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
- 10. Identify cases, which are outside the area of his speciality and competence and refer them to appropriate specialists.
- 11. Advice regarding case management involving surgical, interim treatment etc.
- 12. Competent specialization in team management of craniofacial design.
- 13. Should attend continuing education programs, seminars and conferences related to Pedodontics in thus updating himself/herself.
- 14. Teach and guide his / her team, colleague and other students.
- 15. Should be able to use information technology tools and carry out research basic and clinical, with the aims of publishing his/ her work and presenting hi work at various scientific forum.
- 16. Should have essential knowledge of personal hygiene, infection control, prevent of cross infection and safe disposal of waste, keeping in view the risks of transfer of Hepatitis & HIV and other infectious diseases.
- 17. Should have an ability to plan to establish Pedodontic clinic/hospital ,teaching department and practice management.
- 18. Should have a sound knowledge for the application of pharmacology. Effects of drugs on oral tissue and systems of a body and for medically compromised and dose adjustments for pediatric dental patient.

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