



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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9. 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 his 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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