



D Y PATIL DENTAL SCHOOL

Dr. D Y Patil Knowledge City, Charholi Bk, Via Lohegaon, Pune 412105

Affiliated to Maharashtra University of Health Sciences, Nashik

Recognized by Dental Council of India



SELF STUDY REPORT (CYCLE 1) 2018-2023

Criteria 8: Part- B- Health Science Disciplines

Key Indicator: 8.2: B 2 Dental College

Metric: 8.1.8: The Institution Has Introduced Objective Methods To Measure And Certify Attainment Of Specific Clinical Competencies By BDS Students/Interns As Stated In The Undergraduate Curriculum By The Dental Council Of India.

Report on list and steps taken by the college to measure attainment of specific competencies by the BDS students/interns stated in the undergraduate curriculum during the last five years

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D Y Patil Dental School

Competencies

After the completion of the BDS Course the graduates shall be competent in the following.

General Skills

- Ability to apply knowledge & skills of dentistry in day to day practice
- Understand and apply the principles of ethics
- Analyze the outcome of treatment
- Critical appraisal and evaluation of the scientific literature and information to plan the treatment
- Participate and involve in professional bodies
- Self assessment & willingness to update the knowledge & skills from time to time
- Conduct the research projects
- Minimum computer proficiency to enhance knowledge and skills
- Refer patients for consultation and specialized treatment
- Management of geriatric dental problems

Practice Management

- Selection of practice location, population profile & different payment mechanism
- Co-ordinate & supervise the activities of allied dental health personnel
- Understanding, the dental Jurisprudence and data management.
- Implement & monitor infection control and environmental safety programs
- Practice within the scope of one's competence

Communication & Community Resources

- Understand patients felt needs and demand,
- Establish proper dentist patient relationship by establishing good rapport
- Communicate with integrity and veracity, orally and in writing with all concerned
- Participate in improving the oral health of the individuals through public programs

Patient Care - Diagnosis

- Scientific approach in collecting patient's history
- Performing thorough clinical examination
- Correlating clinical findings with relevant investigations for final diagnosis
- Referring patients in advance cases for 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 acute orofacial pain
- Administration of all forms of local anesthesia
- Prescription of drugs, pre operative, prophylactic and therapeutic
- 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
- Making , 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

List of Competencies

- The student should be able to identify potentially malignant lesions of the oral cavity and perform medical management. If required refer to the concerned speciality for their management.
- The student should have an adequate knowledge about common laboratory investigations and interpretation of their results.
- The student 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.
- The student should have adequate knowledge about radiation health hazards, radiations safety and protection.
- The student should be competent to take intra-oral radiographs and interpret the radiographic findings.
- The student should gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.
- The student should be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation.
- The student should be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law.

Pediatric and Preventive Dentistry

- Encouraging a positive attitude and behavior in children towards oral health, while grasping the principles of prevention and preventive dentistry from infancy through adolescence.
- Capable of advising and counseling parents on various treatment options, encompassing different aspects of preventive dentistry.
- Able to treat dental diseases occurring in child patient.
- Proficient in effectively and efficiently managing children with physical and mental disabilities, tailored to meet individual needs and conditions

ORTHODONTICS & DENTOFACIAL ORTHOPAEDICS


- Acquaint yourself with the normal development and growth of the facial skeleton and dentition.
- Describe observations made during the growth process, specifically in terms of dental and skeletal development and plan necessary treatment.
- Diagnose the different types of malocclusion.
- Capable of motivating and explaining to the patient (and parent) about their condition and necessity of treatment.
- Plan and execute preventive orthodontics (space maintainers or space regainers).
- Plan and execute different treatment modalities in interceptive orthodontics (habit breaking appliances).
- Manage treatment of simple malocclusion such as anterior spacing using removable appliances
- Perform delivery, instructions and activation of removable orthodontic appliances.
- Diagnose and appropriately refer patients with complex malocclusion to the specialist.

Department of Periodontology

List of competencies

- To examine and understand Periodontal Health and Disease
- Diagnose Periodontal status.
- Plan and Perform appropriate Periodontal Treatment.
- Competent to perform supragingival and subgingival scaling, root debridement and minor surgical procedures.
- Indications for Periodontal surgery.
- Give proper post-operative and oral hygiene instructions. Demonstrate proper brushing technique.
- Should be familiar with Dental Implants, Osseointegration and advanced periodontal surgical procedures.
- Understand the concept of LASER, usage and safety.

Lecture Hours	Clinical Hours	Total
80	170	250


HOD Periodontics

Department of prosthodontics, crown and bridge

List of competencies

Diagnosis and Treatment Planning: Ability to diagnose and develop comprehensive treatment plans for patients requiring prosthodontic rehabilitation.

Pre-prosthetic Surgery: Understanding and performing surgical procedures necessary to prepare the oral environment for prosthetic rehabilitation, including bone grafting, ridge augmentation, and implant placement.

Complete Denture Prosthodontics: Proficiency in the fabrication of complete dentures, including assessment of esthetics, occlusion, and function.

Removable Partial Denture Prosthodontics: Competence in designing and fabricating removable partial dentures to replace missing teeth while preserving remaining oral structures.

Fixed Prosthodontics: Skill in the design, preparation, and cementation or bonding of fixed prosthetic restorations such as crowns, bridges, and implant-supported restorations.

Implant Prosthodontics: Knowledge and expertise in the use of dental implants for the restoration of single or multiple missing teeth, including implant-supported overdentures and fixed implant prostheses.

Esthetic Dentistry: Understanding of principles and techniques for achieving optimal esthetic outcomes in prosthodontic treatment, including shade selection, tooth shape, and gingival contouring.

Temporomandibular Joint Disorders (TMD): Ability to diagnose and manage temporomandibular joint disorders and occlusal problems that may impact prosthodontic treatment.

Occlusion: Proficiency in understanding and managing occlusal relationships to ensure functional and stable prosthetic outcomes.

Interdisciplinary Collaboration: Collaboration with other dental specialists and healthcare professionals to provide comprehensive care for patients requiring complex prosthodontic treatment.

Patient Communication and Education: Effective communication with patients to explain treatment options, discuss expected outcomes, and provide post-treatment care instructions.

Research and Evidence-based Practice: Engagement in research activities to advance the field of prosthodontics and implementation of evidence-based practices in clinical decision-making.

These competencies encompass the knowledge, skills, and attitudes required for a prosthodontist to provide high-quality care to patients with dental prosthesis needs

CONSERVATIVE DENTISTRY AND ENDODONTICS

- Competent to diagnose all oral pathology.
- Competent to take case history, general examination, extra oral examination, intra oral examination.
- Competent to clinically examine amalgam restorations, cast restorations, examination of non-carious lesions.
- Competent to examine areas of chief complaint.
- Categorization of Adults according to Caries Risk indicators.
- Perform class I and class II amalgam restoration.
- Perform glass ionomer cement and composite restoration.
- Able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures)
- Able to perform root canal treatment with anterior and posterior teeth.

MINIMUM WORKING HOURS FOR EACH SUBJECT OF STUDY

(B.D.S COURSE)

SUBJECTS	LECTURE HOURS	PRACTICAL HOURS	CLINICAL HOURS	TOTAL HOURS
Dental Materials	48	144		192
Conservative dentistry and Endodontics	240	192	2304	2736

Department of oral and maxillofacial surgery

- The students should be able to apply knowledge obtained in basic medical and clinical subjects in the management of patients.
- They should be able to diagnose and treat patients with problems related to oral surgery.
- They need to have a broad knowledge of maxillofacial surgery.
- Students should be familiar with legal and ethical issues involving treatment and patient communication.
- Students should possess the knowledge and skills necessary to examine patients with any oral surgical issue in an orderly manner.
- Students should be well versed in the principles of asepsis and sterilization.
- Students should be competent in the extraction of teeth under local anesthesia.
- Students should be familiar with minor oral surgical procedures like trans-alveolar extraction, frenectomy, biopsy, alveoloplasty etc.
- Students should be competent enough to understand, manage and prevent complications during minor oral surgical procedures.
- Students should be familiar with and be able to provide care during medical emergencies in dental clinic.

Department of Public Health Dentistry

Goal:

To prevent and control oral diseases and promote oral health through organized community efforts

Objectives:

Knowledge:

At the conclusion of the BDS course the student shall have basic knowledge about the public health, preventive dentistry, public health problems and programs in India, Diet and Nutrition, Environment and its impact on health, biostatistics, and basics of research methodology.

Skill and Attitude:

At the conclusion of the BDS course the students shall have required skills to diagnose the prevailing dental problems affecting the society, procedural steps to conduct health surveys, provide dental health education. Students should develop empathy towards existing public health problems and a positive attitude towards addressing the problems of the society.

Communication abilities:

At the conclusions of the BDS course the student should be able to effectively communicate the needs of the community and inform the society scientific approach to prevent dental diseases.

**MINIMUM WORKING HOURS FOR EACH SUBJECT OF
STUDY
(B.D.S COURSE)**

Subjects	Lecture Hours	Practical Hours	Clinical Hours	Total Hours
General Human Anatomy Including Embryology, Osteology and Histology.	100	175		275
General Human Physiology	120	60		180
Biochemistry	70	60		130
Dental Materials	80	240		320
Dental Anatomy Embryology, and Oral Histology	105	250		355
Dental Pharmacology & Therapeutics	70	20		90
General Pathology Microbiology	55	55		110
	65	50		115
General Medicine	60		9	150
General Pathology	60		9	150
Oral Pathology & Microbiology	145	130		275
Oral Medicine & Radiology	65		170	235
Paediatric & Preventive Dentistry	65		170	235
Orthodontics & dental orthopaedics	50		170	220
Periodontology	80		170	250
Oral & Maxillofacial Surgery	70		270	340
Conservative Dentistry & Endodontics	135	200	370	705
Prosthodontics & Crown & Bridge	135	300	370	805
Public Health Dentistry including Lectures on Tobacco Control & Habit Cessation	60		200	260
Total	1590	1540	1989	5200

Note:

There should be a minimum of 240 teaching days each academic year consisting of 8 working hours, including one hour of lunch break.

Internship – 240x8 hours-1920 clinical hours

Report on list and steps taken
by the college to measure
attainment of specific
competencies by the BDS
students/interns

D Y Patil Dental School

Report

D Y Patil Dental School, Pune is recognized by DCI and follows the syllabus designed by DCI and Maharashtra University of Health Sciences, Nashik. (MUHS) As the students get enrolled in the institute, they are taught and Supervised for preclinical and clinical competencies.

Students are allotted with specific topics as assignment and are expected to complete the work by themselves. The assigned work will be case history recording, Fabrication of Dental Prosthesis; Preparations of Various cavity designs, seminars, field visits, Viva Voce and research projects, MCQs etc all within the curriculum as per MUHS /DCI

Written Examinations:

- The question paper contains different types of questions like essay, short answer and M.C.Qs.
- The nature of questions set, are aimed to evaluate students.
- Two internal assessment and one Preliminary examinations are conducted before University Examination

Clinical Examination:

- Objective Structured Clinical Examination
- Records and log books
- Case history recording
- Dental chair side Viva on case history and treatment rendered
- Grand Viva Voce

Both external and internal examinations are conducted as per MUHS guidelines. Evaluation is carried out by two examiners i.e., one internal examiner from same institute and one external examiner from outside institute. Each student is evaluated individually by each examiner.

Interns have scheduled postings in each department where they are encouraged to learn various clinical skills and are trained in various specialized clinics enhancing them for inter disciplinary approach which helps them to gain a positive attitude towards professional ethics and patient care. Various projects and peripheral community postings and dental camps make them more aware about the societal needs of dentistry.