



**“CAROL DAVILA” UNIVERSITY
OF MEDICINE AND PHARMACY BUCHAREST**
Faculty of Dentistry
Dental Medicine in English



DISCIPLINE GRID

1. Programme:

1.1.	CAROL DAVILA UNIVERSITY OF MEDICINE AND PHARMACY BUCHAREST
1.2.	FACULTY OF DENTISTRY / 2nd DEPARTMENT
1.3.	DIVISION PREVENTIVE DENTISTRY
1.4.	STUDY DOMAIN: Health, sectorial regulated within European Union
1.5.	STUDY LEVEL: LICENCE
1.6.	STUDY PROGRAMME: DENTAL MEDICINE IN ENGLISH

2. Discipline:

2.1.	DISCIPLINE NAME: PREVENTIVE DENTISTRY I						
2.2.	LOCATION: Eforiei Clinic, 4-6 Eforiei street, 3rd Floor						
2.3.	Lectures tenure: Assoc. Prof. Dr. Cristian FUNIERU						
2.4.	Practical classes tenure: Teaching assistant Dr. Andreea MOLDOVEANU Teaching assistant Dr. Clara Ilinca BICA						
2.5. Study year	III	2.6. Semester	V	2.7. Evaluation	Exam	2.8. Type of discipline	CD/SD

3. Estimated total time (hours/semester):

No. hours/week	5	out of which	Lectures: 2	Laboratory sessions: 3
Total hours out of learning schedule	70	out of which	Lectures: 28	Laboratory sessions: 42

Time distribution	hours
Textbook study, lecture support, bibliography and notes	28
Supplementary documentation activity in the library, on online platforms	6
Practical activity support material, homework, portfolio and essays	14
Tutorial activity	-
Examinations	4
Other activities	3
Total hours of individual study	55
Total hours per semester	125
Credits	5

4. Preconditions:

4.1. Curriculum	Knowledge of: <ul style="list-style-type: none"> - anatomy, chemistry, biochemistry - physiology, pathophysiology, immunology, histology, microbiology - behavioral sciences, ergonomics, teeth morphology
4.2. Proficiencies	To know: <ul style="list-style-type: none"> - patient management - medical terms - dental office base structure

5. Conditions:

5.1. for lecture activity	Large hall Computer, video projector, blackboard Access to online education tools
5.2. for laboratory activity	Dental offices, seminar room Dental instruments and materials Dental training manikins (simulators)

6. Accumulated skills:

6.1. Proficiencies (knowledge and abilities)	I. Knowledge (cognitive dimension) <ul style="list-style-type: none"> - How to define primary concepts about diagnosis of transmissible infectious diseases in dentistry - Learning disinfection and sterilizations techniques and concepts for practicing safe dentistry - Knowing base principles of how to prevent transmissible infectious diseases in dentistry II. Abilities (functional dimension) <ul style="list-style-type: none"> - Learning how to clean, disinfect and sterilize dental instruments - Preparing dental office and patients for the treatment sessions by avoiding cross-contamination - Knowing hand care procedures and how to use the PPE (medical uniform, glasses, mask, gloves)
6.2. Transversal skills (role, professional and personal development)	III. Role skills <ul style="list-style-type: none"> - possibility of accessing, processing and interconnecting skills with concepts from others disciplines - identification of possible roles and responsibilities in a multidisciplinary team and apply communication and efficient work techniques in relation to patients IV. Professional and personal development skills <ul style="list-style-type: none"> - efficient usage of information and communication resources - identifying possible topics and hypothesis for research

7. Objectives (based on the grid of acquired specific skills):

7.1. General Objective	Understanding and learning the concepts of infection transmission, disinfection and sterilization in dental office
7.2. Specific Objectives	Students must know: <ul style="list-style-type: none"> - The way of transmission and prevention of communicable diseases in dental office - Rules of aseptic techniques in dentistry – the way of protecting patients and dental team from cross-contaminations - General rules of disinfection and sterilization in dental office

8. Content:

8.1.1. Lecture	Nr.hrs/topic	Teaching methods	Obs
1: Introduction in preventive dentistry	2	Interactive exposures of the proposed topics using media and power point presentations	
2: Infection control in dental office: introduction, definition, routes of transmission, antibiotic prophylaxis	2		
3: Infectious diseases in the dental practice (1): Human spongiform encephalopathy, SARS, Type A influenza, Tuberculosis, type A hepatitis	2		
4: Infectious diseases in the dental practice (2): Types B, C, D, E hepatitis; Unspecific viral infections – Herpesvirus diseases: varicella (chickenpox), herpes-zoster (shingles)	2		
5: Infectious diseases in the dental practice (3): Unspecific viral infections – Infection with Epstein-Barr, Cytomegalovirus, Herpes simplex viruses. Other infectious diseases (Rubella, Measles, Scarlet-fever, Mumps)	2		
6: Infectious diseases in the dental practice (4): Infection with Human Immunodeficiency Virus (HIV)	2		
7: Test	2		
8: Exposure control: PPE, principles of dental office designing, dental instrument processing procedures	2		
9: Test retake	2		
10: Instruments wrapping; sterilization monitoring; disinfectants and disinfection methods; sterilization methods, surface decontamination protocols; dental unit waterlines aseptic protocols; medical waste management	2		
11 Saliva: composition, flow rate, roles, xerostomia (therapeutic management) (Part I)	2		
12 Saliva: composition, flow rate, roles, xerostomia (therapeutic management) (Part II)	2		
13: Dental plaque microorganisms involved in caries and/or periodontal disease pathology – soft dental deposits (Part I)	2		
14: Dental plaque microorganisms involved in caries and/or periodontal disease pathology – dental calculus; dental plaque disclosing; halitosis (Part II)	2		

8.2.1. Laboratory session	Nr.hrs/topic	Teaching methods	Obs
1: Dental office: base structure, dental unit, surfaces (Spaulding classification), exposure control	3	Practical sessions (clinical or simulations – hands on), reports, power point presentations, video sessions	
2: Preparing dental office at the beginning, during and at the final of the working day; preparing patients and dental staff	3		
3: Preventing cross-infections: first video session	3		
4: Hand care principles and washing techniques	3		
5: PPE	3		
6: Dental instruments processing: disinfection, manual and ultrasonic cleaning	3		
7: Dental instruments wrapping and sterilization methods	3		
8: Preventing cross-infections: second video session	3		
9: Patient assessment and examination; dental record	3		
10: Saliva: measuring flow rate, clinical and lab tests	3		
11: Xerostomia: clinical and lab data; treatment	3		
12: Dental plaque: definition, detection and disclosure	3		
13: Plaque disclosure – plaque scores (1)	3		
14: Recap	3		

8.3. Bibliography for lectures and laboratory/practical sessions

1. Mallonee LF, Boyd LD, Wyche CJ. Wilkin's Clinical Practice of the Dental Hygienist. 13th Edition. Wolters Kluwer, 2021; Jones & Bartlett Learning 5 Wall Street Burlington, MA, USA
2. Miller CH, Palenik CJ. Infection Control and Management of Hazardous Materials for the Dental Team. 6th Edition. 2017 Mosby, Missouri, USA.
3. John J. Textbook of Preventive and Community Dentistry. Third Edition, 2017. CBS Publishers & Distributors Pvt Ltd, CBS PLAZA, 4819/XI Prahlad Street, 24 Ansari Road, Daryaganj, New Delhi-110002, India

Journals:

1. Oral Health and Preventive Dentistry
2. International Journal of Dental Hygiene
3. Community Dentistry and Oral Epidemiology
4. Journal of Public Health Dentistry
5. Community Dental Health

9. Corroborating the contents of the discipline with the expectations of epistemic community representatives, professional associations and employers in the fields representative for the program:

Discipline content is consistent with that from other university centers (Romanian and international), being permanently improved and updated, in accordance with the principal ways of evolution and development in dentistry. In this way, the members of the discipline are periodically informed about the market requirements and from feedback they have permanently with the students.

10. Evaluation:

10.1 Evaluation			
Activity type	Evaluation Criteria	Methods of evaluation	% out of final grade
Lecture	A. Knowledge for mark 5: Basic elements containing in the proposed topics (lectures); the answers should not contain serious errors.	Exam (editorial)	60%
	B. Additional knowledge for mark 10 In-depth knowledge of the proposed topics (lectures), knowledge of all bibliography; Generally, correct answers to all questions.	Test (editorial)	30% <i>Passing the tests with a minimum grade of 5 (in one of two attempts) is mandatory</i>
Laboratory Sessions	A. Knowledge for mark 5: Basic elements containing in the proposed topics (laboratory sessions); the answers should not contain serious errors. B. Additional knowledge for mark 10 In-depth knowledge of the proposed topics (laboratory sessions), knowledge of all bibliography; Generally, correct answers to all questions.	Practical assessment – periodic seminars	10%
Minimum performance standards			
Basic knowledge of the infection control procedures in the dental settings			

Date:
12.09.2024

Chair of Preventive Dentistry Division,
Assoc. Prof. Dr. Cristian Funieru

Date of the approval in
Department Board:

Department director,
Prof. Emeritus Dr. Alexandru Bucur