

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

Name of the course: Preventive Dentistry

Credit value: 3

Lessons (*in hours in the whole semester*): 56 from this, lectures: 28 practicals: 18 seminars: 10

Type of the course: compulsory obligatory elective elective

Semester in which it is announced according to the curriculum: 5th

Frequency of announcement (*per semester or year*): per a year

The responsible educational and research organizational unit for teaching the subject:

Department of Restorative Dentistry and Endodontics

Academic year: 2023/2024

Subject (Neptun) code: FOKOKFK246_1A

Lecturer of the course: Prof. Dr. János Vág

Academic position: clinic director, professor

Contact: Dr. Eszter Molnár, senior lecturer, Department of Restorative Dentistry and Endodontics, phone number: 06-1-459-1500/59385

The goals and place of the course in regards to the education of dental students:

Nowadays we have neither modern, up to date education, or up to date patient – treatment without preventive medical view. The objective of teaching the subject is that the students' work should be permeated by a preventive approach. Introducing the importance and possibilities of primary, secondary and tertiary prevention in all areas of dentistry. The purpose of the these is to introduce the students to clinical exercises, to learn about and practice the implementation of dental prevention.

Location of the course (*address of lecture hall, seminar room etc.*):

FOK OC, Budapest, Szentkirályi u. 47. Lectures: Árkövy hall (ground floor), practicals: 111, 113, 114 rooms, according to the current timetable (1st floor).

Competences acquired by completion of the course:

After successful completion of the subject, the student gets to know a healthy mouth and can recognize conditions that differ from it. They get to know and practice the methods used in the diagnosis of caries and periodontal diseases, as well as the related prevention activities. They get to know and practice screening tests related to dental caries, periodontal diseases and oral cavity cancer, as well as the recording of various indices. They getting to know the relationship between the condition of the mouth and other diseases.

Pre-study requirements and prerequisites of course registration and completion, in case of a multi-semester subject, the standpoint of the educational-research unit on the concurrent subject registration and on the requirements of permission thereof:

Restorative dentistry propaedeutics I., Odontotechnology and Prosthodontics propaedeutics II.

The course is a semester.

Number of students required for announcement of course (*min., max.*), method of selection:

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Method of course registration:

Neptun System

Detailed course/lecture description¹: *(to facilitate credit recognition in other institutions)*

Preventive Dentistry is educated as a separate, compulsory, independent course at the Department of Restorative Dentistry and Endodontics. In the 5. semester there are two hours lecture/week and two hours practices or seminars pro week.

Lectures:

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| 1. | Preventive dentistry- introduction |
| | Dental caries, Etiology of caries. Dental plaque |
| 2. | Caries Epidemiology. Caries indices. Risk factors |
| | Caries incipient and remineralisation |
| 3. | The Role of diet in the caries prevention |
| | Cervical sensitivity, dentinal hypersensitivity and erosion |
| 4. | Fluorides in the caries prevention |
| | Toxicology of fluorides |
| 5. | Oral hygiene - Toothpaste |
| | Oral hygiene - Toothbrush |
| 6. | Prevention in pregnancy and from the intrauterine life to the age of three |
| | Dental treatment and prevention in case of elderly patients |
| 7. | Gingivitis and periodontal disease. Epidemiological characteristics. Pathogenesis and diagnosis |
| | Strategy for prevention of periodontal diseases |
| 8. | Integrated preventive dentistry – prosthodontics |
| | Integrated preventive dentistry – gnathology |
| 9. | Integrated preventive dentistry – conservative dentistry |
| | Possibilities in prevention of orthodontic anomalies |
| 10. | Oral cancer |
| 11. | Environmental and iatrogenic damaging factors in dentistry |
| | Infection control |
| 12. | Fissure-sealing |
| | The role of dental hygienists in the dental practice |
| 13. | Environmental protection. |
| 14. | Group-prophylaxis, Design, Organisation |
| | Profilaxis in the school |

Practices/Seminars:

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| 1. | Clinical workplace (Seminar) |
| 2. | Clinical workplace (practice, test) |
| 3. | Dental status, medical/dental history (Seminar) |
| 4. | Medical history, Dental status (practice, test) |
| 5. | Dental status, Cariesdiagnostic (practice, test) |
| 6. | DMF number/index, methods od cariesdiagnostic (practice) |
| 7. | Oral hygiene (Seminar) |

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| 8. | Oral hygiene indices (Seminar) |
| 9. | Oral hygiene indices (practice, test) |
| 10. | Plaque staining (practice, test) |
| 11. | Periodontal Indexes, scaling (practice, test) |
| 12. | Periodontal Indexes, scaling (practice) |
| 13. | Caries Risk Test (practice) |
| 14. | Consultation |

Courses (*compulsory and obligatory elective*) which in part or entirely overlap the topics of above course:

The subject discusses dental prevention, so there is a possible overlap with all dental subjects.

Special academic work required for completion of the course²:

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Attendance on practices and lectures, replacement in case of missed sessions:

Participation at practices is compulsory. More than 25% absences is not allowed from practices/seminars, verifying the absence is unnecessary. We cannot ensure possibility to make up the absence. A student is considered to be late from the practice/seminar if he/she arrives no more than 10 minutes later than the time set by the timetable. These late arrivals are marked in the attendance sheet and if someone is late three times within a semester, it will be considered an absence. However, if someone is more than 10 minutes late from the practice/seminar, it will be already registered as an absence.

Students have to come prepared for the exercises - in terms of their material. In order to check this, a five-question test must be completed (on a mobile phone) at the beginning of the practices. The topics of each test can be found in the practical topics and they can prepare from the material of the corresponding seminar. Those who receive an insufficient grade on the test (they could give max. one correct answer on the test) will receive an additional question on the colloquium (after each failure). The average of the tests must be totalled at the end of the semester. Those who write all six tests in the practices with a grade of 5.0 can return one of the items received in the exam. The condition for participation in the practices is to write the actual test. In case of absence from practice, it is not necessary to make up the test.

Method of checking acquired knowledge during the study period³:

Students must prepare in advance for the practices according to the given topic. This is checked and evaluated by the practice leader.

Requirements of an accepted semester (*signature of the lecturer*):

Adequate preparation and activity in the exercises, proper management of the "Performance sheet" and submission to the instructor at the end of the semester, and no more than 25% absence from the practices/seminars. If the student is unprepared or does not show adequate activity during the practices, the instructor may refuse to sign.

Type of the exam:

Semifinal, oral exam.

Requirements of the exam³:

Materials of exam are: materials on our homepage, in Moodle system, lectures and seminars.

Topic list A:

1. The concept of preventive dentistry, its place in dentistry. The different levels of prevention
2. Cariesdiagnostics
3. Caries incipient and the methods of remineralisation
4. Dental plaque - biofilm
5. Caries risk assessment, caries risk patients
6. Dentin hypersensitivity and its treatment
7. Dental erosion
8. Infection control – general aspects

9. Infection control in dentistry
10. Risk groups - risk patients
11. Epidemiology and aetiology of oral cancer and its primary prevention
12. Pillars of the caries prevention. Possibilities of immunization in caries prevention
13. History of fluoride prevention, mechanism of action of fluorides
14. Collective/individual fluoride prophylaxis
15. The modern fluoride prevention
16. Toxicology of Fluoride
17. Clinical examination of dental plaque and its staining
18. Oral hygiene indices
19. Diet and caries. Cariogenicity and acidogenity of foods
20. Sugar substitutes and sweetening agents
21. Fissure sealant (aim and materials)
22. Fissure sealants: the use
23. Pathomechanism and diagnosis of periodontal diseases
24. Professional oral hygiene (its role and implementation)
25. Toothpastes

Topic list B:

1. Health education, health preservation
2. Health education programs
3. Dental care in pregnancy
4. Health education programs in early childhood (0-3 years)
5. Health education programs in kindergartens
6. Health education programs at school
7. Health education programs in adulthood
8. Dental prevention of elderly patients, and specialities of the dental treatment of patient with systemic disease
9. Dental caries, caries indices, rank of caries susceptibility
10. Types of epidemiological studies. Epidemiology of the dental caries
11. Possibilities of prevention in conservative dentistry. Finishing and polishing of fillings
12. Environmental aspects in dentistry
13. Possibilities of prevention in orthodontics
14. Secondary and tertiary prevention of oral cancer
15. Fluoridation in Hungary and all over the world
16. Periodontal status and general health
17. Indexes in periodontology
18. Strategy of prevention of periodontal diseases
19. Individual oral hygiene. Toothbrushes, electric toothbrushes, supplementary devices, dental floss
20. Tooth cleaning techniques tooth brushing methods and their frequency
21. Chemical plaque control

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| <p>22. Scaling</p> <p>23. Consequences of tooth loss</p> <p>24. Preventive aspects of Prosthetic dentistry</p> <p>25. Iatrogenic damages in dentistry</p> |
| <p>Grading of courses⁴. The possibility and requirements of an offered grade:</p> <p>Oral exam, the student will receive two exam questions (one-one from A and B types) of the topics which are on the website (the number of the topic is determined using a random number generator). The number of exam topics varies as described above, depending on the aggregated results of the tests written in the practices. After the preparation time, the students explain the items and answer the questions. The exam is graded on a five-point scale (1-5). The exam mark is insufficient even if only the mark received for one topic is insufficient.</p> <p>There is no offered grade.</p> |
| <p>Exam registration:</p> <p>In the Neptun-system. It is not possible to increase the number of given exam spots.</p> |
| <p>Rules of repeating exams:</p> <p>According to the Examination and Studies Regulations.</p> |
| <p>List of textbooks, lecture notes and recommended textbooks, online material:</p> <p>Materials of exam are: materials on our homepage, in Moodle system, lectures and seminars</p> <p>Required textbooks:</p> <p>Primary Preventive Dentistry. Edited by Norman O. Harris, Franklin Garcia-Godoy – 5th ed. Appleton & Lange, Stamford, Connecticut, 1999. ISBN 0-8385-8129-3</p> <p>Recommended textbooks:</p> <p>The Prevention of oral disease. Third edition. Edited by J. J. Murray, Oxford University Press, Oxford, New York, Tokyo, 1996. ISBN 0192624571</p> <p>Fluoride in Dentistry. Second edition. Edited by O. Fejerskov, J. Ekstrand, B. A. Burt, Munksgaard, Copenhagen, 1996. ISBN 87-16-22282-2</p> |
| <p>Signature of course lecturer:</p> |
| <p>Signature of head of department:</p> |
| <p>Date of submission:</p> |
| <p>Opinion of OKB:</p> |
| <p>Notes from the Dean's Office:</p> |
| <p>Signature of Dean:</p> |

¹ Detailed and numbered for each week of theoretical and practical lessons one by one. In an annex, cannot be attached appendix!

² Eg. homework, report, midterm exam etc. Topics, dates, method of retake and replacement

³ List of topics in case of theoretical exam, thematic and method in case of practical exam

⁴ Method of inclusion of theoretical and practical exams. Method of inclusion of midterm assessments.