

COURSE SYLLABUS

Semmelweis University Faculty of Dentistry, Dentistry

Name of the course: : Chronic periodontal disease and systemic disorders

Credit value: 2

Lessons (in hours in the whole semester): 2 from this, **lectures:** 2

Type of the course: elective

Semester in which it is announced according to the curriculum: 8, 10th semester

Frequency of announcement (per semester or year): yearly

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

Department of Oral Biology

Academic year: 2023/24 (2nd semester)

Subject (Neptun) code:

Lecturer of the course: Dr. Zsembery Ákos

Academic position: associate professor

Contact: Orálbiológiai Tanszék, +36-1-210-4415

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

The course will be offered in the 8th and 10th semesters of both the Faculty of Dentistry and the Faculty of General Medicine. Recent research has shown a strong correlation between periodontal disease and a number of systemic diseases (e.g. cardiovascular disease, metabolic disorders, cognitive dysfunction and gastrointestinal tumours) that are common in the population. The aim of the course (mainly in collaboration with senior lecturers from the Department of Periodontology and experts in the field) is to present an "up-to-date" presentation of the pathophysiological, microbiological and public health aspects of these relationships. On the one hand, this contributes to the clinical approach of dental students, and on the other hand, it provides both dental students and general practitioners with new insights into why close cooperation between physicians of different specialties is essential in their curative and preventive activities. It is hoped that the cross-faculty course will also facilitate better communication and closer collaboration between students and faculties.

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

NET Building according to the semesters's schedule

Competences acquired by completion of the course: In the clinical approach of dentistry and general medicine, it is desirable, even essential, to take into account the fact/principle that the human being who comes to the doctor is a complex biological system, and that only by taking this complexity into account can the treatment of this complexity be truly effective and successful. The interrelationships between the functioning of organs, organ systems and diseases require constant close cooperation between the various disciplines. This is even more important in an increasingly specialised world. In this context, we will present a number of examples from the field of dental training, thus reinforcing the above-mentioned traditional and modern clinical approach in doctors.

Pre-study requirements and prerequisites of course registration and completion: General and Oral Pathophysiology, Periodontology I.

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

minimum number of students: 10

maximum number of students: 40

selection: registration order (Neptun system)

Method of course registration: Neptun system**Detailed course/lecture description¹:**

The planned topics of the course (each topic is assigned to a tutor from the Department, we will also involve experts from the relevant clinical field as well as clinical periodontology experts:

1. Periodontal disease - it is not just about saving teeth. Local and systemic causes and consequences of periodontitis. Dr. Zsembery Ákos, Prof. Gera István
2. The oral microbiome. Dr. Zsembery Ákos
3. Oral flora, gastrointestinal flora and gastrointestinal diseases I. Dr. Zsembery Ákos, Prof. Dr. Szabó Dóra
4. Liver flora, gastrointestinal flora and gastrointestinal diseases II. Dr. Zsembery Ákos, Dr. Zádori Zoltán
5. Periodontal disease and respiratory diseases. Dr. Zsembery Ákos
6. Periodontal disease and cardiovascular diseases. Dr. Köles László
7. Periodontal disease and diabetes mellitus, obesity and metabolic diseases. Dr. Zelles Tibor
8. Periodontal disease and renal diseases. Dr. Kádár Kristóf
9. Periodontal disease and immune dysfunction. Dr. Tibor Zelles
10. Relationship between periodontal disease and neurological/psychiatric pathologies. Dr. Köles László
11. Periodontal disease and cancer. Dr. Szentirmainé Ribiczey Polett
12. Periodontal disease and pregnancy, gynaecological pathologies. Dr. Humli Viktória
13. Panel discussion with clinicians, microbiologists and public health experts. Dr. Zsembery Ákos, Dr. Köles László
14. Written exam (MCQ)

Courses (compulsory and obligatory elective) which in part or entirely overlap the topics of above course: General and Oral Pathophysiology, Oral Biology, Periodontology I-IV.

Special academic work required for completion of the course²:

none

Attendance on practices and lectures, replacement in case of missed sessions: according to the Study and Examination Regulations. No replacement is possible. Lecture material is made available on the Moodle.

~~**Consequences of absence from sessions and exams:** törölve~~

Method of checking acquired knowledge during the study period³: none

Requirements of an accepted semester (signature of the lecturer): according to the Study and Examination Regulations

Type of the exam: practical mark, written test (MCQ)

Requirements of the exam³:

Material presented and discussed on the sessions.

Grading of courses⁴: according to the result of the written exam

Exam registration:

in the Neptun system, according to the Study and Examination Regulations
Rules of repeating exams: according to the Study and Examination Regulations
List of textbooks, lecture notes and recommended textbooks, online material: Material presented and discussed on the sessions. Lecture and topic related materials made available online in the Moodle.
Signature of course lecturer:
Signature of head of department:
Date of submission:
Opinion of OKB:
Notes from the Dean's Office:
Signature of Dean:

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.