REQUIREMENTS PERIODONTOLOGY IV

Semmelweis University Faculty of Dentistry Department of Periodontology

Name of the course: Periodontology IV

Credit value: 3 (1,5L 2P)

Lessons *(in hours)*: lectures: 18 practicals: 24 seminars:

Type of the course: compulsory

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

Academic year: 2022/2023

Subject code[1]: FOKOPDK213_4M

Lecturer of the course: Prof. Péter Windisch

Contact: Clinic of Periodontology
H-1088 Szentkirályi street 47. 4. floor, + 36 1 318 5222

The goals of the course in point of view of the education: Periodontology is a basic, conceptual subject in the undergraduate curriculum of dental students, with a definite aim to teach modern, evidence based methods of periodontal diagnostics and treatments. Providing students with up-to-date knowledge of periodontics and related implant dentistry.
Practices of Periodontology IV are held in the patient care units of the Department of Periodontology in the form of 'Rotation' (3 whole clinical workdays), providing opportunity for the students to observe and participate periodontal treatments as a whole. During clinical practices students should carry out complex treatment on a few patients under supervision In addition, student should assist periodontal and/or implant surgeries. The acquired core knowledge will be essential for dentists in general dental setting

Location of the course *(address of lecture hall, seminar room etc.)*: Arkövy Auditorium, practical rotation on the 4th floor Dep. of Periodontology

Knowledge acquired by completion of the course: Students will be able to diagnose the diseases of the gum and the attachment apparatus, diagnose the clinical manifestations of systemic diseases, provide oral prophylaxis, non-surgical periodontal pocket therapy and basic pocket surgery. Should be familiar with mucogingival and regenerative techniques and also perio-implantology and perio-prosthodontics.

Pre-study requirements and prerequisites of course registration and completion: Periodontology III

Number of students required for announcement of course *(min., max.)*: The total number of registered students for the given semester

Method of course registration: NEPTUN

Detailed course/lecture description[2]: *(to facilitate credit recognition in other institutions)* Periodontology is a basic, conceptual subject in the undergraduate curriculum of dental students, with a definite aim to teach modern, evidence based methods of periodontal diagnostics and treatments. Providing students with up-to-date knowledge of periodontics and related implant dentistry.
Practices of Periodontology IV are held in the treatment units of the Department of Periodontology in the form of 'Rotation' (3 whole clinical workdays), providing opportunity for the students to observe and participate periodontal treatments as a whole in addition, to assist periodontal and/or implant surgeries.

Is periodontitis a risk factor in implant dentistry?	HA

Biology of periodontal and periimplant tissues	WP
Periodontal aspects of implantology, augmentations I.	WP
Periodontal aspects of implantology, augmentations II.	WP
Periimplantitis. Background and management	MB
Comprehensive case presentations I. (perio-prot direct/indirect, surg)	GI
Comprehensive case presentations II. (perio/plastic surg - impl)	MB
Comprehensive case presentations III. (perio-non-surg/surg - impl)	HA
Supportive therapy in periodontology and implant dentistry	HA
Eastern Monday	-
Periodontal diagnostics - consultation	30
Written test	WP/GI

Clinical session pensum

Diagnosis - (new patient examination) (3) Complex treatment planning – determination of perio-(implant)-prosthetic prognosis (1) Non surgical therapy. Supra and subgingival scaling. Root planning (local anaesthesia) (3) Assisting in surgery (2)

Special academic work required for completion of the course[3]: no

Attendance in practices and lectures, replacement in case of missed sessions: Completing the administration work for closing the previous semester and obtaining the pre-requisites Proper uniform matching the rules with a nameplate. Learning and understanding both the course description (requirements and rules of the subject) presented on the Faculty's and the Clinic's homepage. Absence in accordance with the Study and Examination Policy of Semmelweis University Faculty of Dentistry with no possibility to substitute lectures. Participation in lectures in accordance with The Study and Examination Policy of Semmelweis University Faculty of Dentistry is not compulsory. The maximum allowed absences from the practices is 1 out of three full days clinical rotation. This is the principal requirement for the acceptance of the semester and the signature in addition to fulfill at lest 70% of the given practical pensum . In case of total practical incompetence, or the practical output on the practices does not reach at least 70% of the required practical pensum or other behavioral problems the signature can be denied 1 (failed) after having been consulted with the department chairman

Consequences of absence from sessions and exams: The maximum allowed absences from practices are 1 workday. This is the principal requirement for the acceptance of the semester and the signature .

Method of checking acquired knowledge during the study period[4]: midterm test on the lectures and short essay on the practices

Requirements of an accepted semester *(signature of the lecturer)*: participation in lectures with absences in accordance with The Study and Examination Policy of Semmelweis University Faculty of Dentistry. 'Satisfied' grade in the midterm test and midterm oral exam at the practice. Fulfilling the at lest 70% of the given practical pensum . The maximum allowed absences is 1 day, but that should be retaken during the semester. This is the principal requirement of the acceptance of the semester and the signature. In case of total practical incompetence, if the practical output during the practices does not reach at least 70% of the required practical pensum or other behavioral problems the signature can be denied after having been consulted with the department chairman

Type of the exam: final exam written and oral

Requirements of the exam[5]: All curricular matter of the lectures and practices of Periodontology I-IV. Is questioned during the written and oral exam.

Written final test- slide diagnostics : 30 clinical slides (slide diagnoses in essay). Qualifications for the slide diagnostics: The passing grade is above 60% (17 slides)

Oral exams: students first must answer one-or two off hand questions on trivial and necessary knowledge on periodontal diseases. After answering those successfully, two topics are chosen (randomly) from the 60 questions listed below .

Periodontology final exam topics

1. Macroscopic and microscopic anatomy of the gingiva
2. Macroscopic-, microscopic anatomy and function of the attachment apparatus
3. Normal macroscopic-, microscopic anatomy and function of the gingival sulcus
4. Development of periodontal tissues and biology of the alveolar bone
5. Normal defensive functions of periodontal tissues
6. The mechanism of plaque and calculus accumulation
7. Light-, and electron microscopic structure of the dental plaque
8. Microbiology of supragingival dental plaque
9. Microbiology of subgingival dental plaque, periopathogen microorganisms
10. The experimental gingivitis model – Histology and immunology of initial gingivitis
11. Histology and immunology of onset and developed gingivitis
12. Histology and immunology of initial periodontitis
13. The role of PMN leukocytes, monocytes and systemic factors in the patomechanism of periodontitis
14. The role of local factors in the patomechanism of periodontitis; elimination of local plaque retentive factors
15. Procession of the untreated periodontal disease
16. Classification of periodontal diseases
17. Clinical and subjective symptoms of plaque-induced gingivitis
18. Gingivitis with systemic background and paired with deficiency diseases
19. Connection of periodontitis and smoking
20. The periodontal pocket as a focal infection (systemic connections of periodontitis)
21. Non plaque-induced gingival diseases
22. The role of attached gingiva in the mechanical defense of the periodontium
23. Causes and consequencies of gingival recession, tooth neck hypersensitivity
24. Drug-induced gingival hyperplasty, pregnancy-associated gingivitis
25. Chronic, adult periodontitis
26. Microbiology, genetic and immune background of aggressive periodontitis
27. Treatment of aggressive periodontitis
28. Oral hygiene indexes
29. Diagnosis of gingivitis, gingival indexes
30. Periodontal indexes. Significance of CPITN/PSR/BPE index systems
31. Periodontal clinical diagnostic parameters, radiology, furcation laesions
32. Epidemiology of periodontal diseases
33. Prevention of periodontal diseases
34. Treatment of acute periodontal conditions
35. Main phases of complex periodontal therapy
36. Acquiring effective individual oral hygiene
37. Professional oral hygiene, tools
38. Chemical plaque-control and systemic antibiotic treatment
39. Reevaluation after the professional oral hygiene phase
40. Fundamentals of periodontal surgery, indications and contraindications
41. The role of gingivectomy in contemporary periodontal surgery
42. Apically repositioned flap surgical techniques and the treatment of severe horizontal bone loss
43. The modified Widman flap
44. Treatment options for vertical bone defects
45. Healing and regenerative potential of different periodontal tissues
46. Fundamentals and history of Guided Tissue Regeneration
47. Classification of periodontal flaps, incisions and suture techniques in periodontal surgery
48. Resorbable, and non-resorbable barrier membranes
49. Biological and biochemical tissue regeneration (morfogenic proteins, enamel matrix derivate)

50. Bone replacement grafts and autogenous bone in periodontal regeneration
51. Mucogingival surgery, correction of recessions, the Miller classification
52. Periodontal considerations in prosthodontics, correction of secunder occlusal trauma, grinding, and prosthetic rehabilitation
53. Indications and technical possibilities of creating temporary and semipermanent splints
54. Borders of endodoncy and periodontology
55. Periodontal maintenance and recall. Determinants of recall intervals. Criteria for successful periodontal treatment
56. Connection between periodontology and orthodontics. Guidelines for orthodontic treatment of periodontally affected patients
57. Alveolar ridge preservation
58. The biological width around teeth and implants
59. Aspects of implant placement in periodontally affected patients
60. The definition of periimplant mucositis and periimplatitis. Treatment options

Grading of courses[6]: Grade based on the result of the diagnosis of 30 clinical slides. Oral exams: students first must answer one-or two off hand questions on trivial and necessary knowledge on periodontal diseases. After answering those successfully, two topics are chosen (randomly) from the 60 questions listed below. Each part of the exam is scored separately and the final grade is given by the sum and average of the scores. If student is not able to give correct answer to the off hand questions will not be eligible to continue the oral exam.
The whole oral exam should be retaken.

Exam registration: by NEPTUN

Rules of repeating exams:
The failed final exam should be retaken as an oral exam during the examination period. Slide diagnosis will be part of the oral exam.

List of textbooks, lecture notes and recommended textbooks: Lindhe J. (et al) (ed): Clinical Periodontology and Implant Dentistry 6th ed (Blackwell 2016) http://semmelweis.hu/parodontologia/en/

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] Filled out by the Dean's Office following approval
[2] Detailed and numbered for each week of theoretical and practical lessons one by one, indicating the names of lecturers and instructors
[3] Eg. field practice, medical chart analysis, survey conducting, etc.
[4] Eg. homework, report, midterm exam etc. Topics, dates, method of retake and replacement.
[5] List of topics in case of theoretical exam, thematic and method in case of practical exam.
[6] Method of inclusion of theoretical and practical exams. Method of inclusion of midterm assessments.