



**МЕДИЦИНСКИ
УНИВЕРСИТЕТ**
“Проф. д-р Параскев Стоянов” Варна

FACULTY OF DENTAL MEDICINE

Approved with protocol No.

Approve:

DEAN:

/Prof. Stefan Peev, DMD, PhD, DSc/



CURRICULUM

“PERIODONTOLOGY AND ORAL MUCOSA DISEASES”

Speciality “DENTAL MEDICINE”

Educational qualification degree “MASTER”

Professional qualification “DOCTOR OF DENTAL MEDICINE”

Education forms	Semester	Horarium-acad. hours per week	Horarium-acad. hours totally
Lectures	VI, VII, VIII, IX	1/1/2/2	90
Practical exercises	VI, VII, VIII, IX	2/2/2/2	120
Total hours			210
Extracurricular employment			150
Forms of control	Ongoing control		Exam – IX semester
Credits (ECTS)			12

ABSTRACT:

The education in periodontology aims to introduce the students in the basic diagnostic methods, treatment and prevention of periodontal diseases. For this purpose, students undergo a simulation and clinical training course, in which they become familiar with the clinical morphology of the periodontium, all the examination methods of patients with periodontal diseases, the etiology and pathogenesis of periodontal diseases, and therapy procedures and prevention. The practical work aims to establish in students' basic skills regarding the diagnosis and treatment of the studied nosological entities.

Forms of education, control and assessment

Assessment: ongoing assessment, participation in seminars, colloquium results, test results, practical exam, theoretical exam.

Methods of education: lectures, seminars, discussions, treatment planning, simulation exercises, practical exercises, multimedia presentations.

EVALUATION CRITERIA:

Basis for forming the mark:

1. Evaluation of the student's activity during the practical exercises
2. Colloquium and seminar results
3. Practical exam
4. Semester exam result

Criteria in forming the final mark:

1. Clinical and paraclinical diagnostics
2. Treatment planning of clinical cases
3. Test
4. Exam result

After completing the course, students should have the following knowledge, skills and competencies:

- **Knowledge** about the clinical morphology of the periodontium, etiology and pathogenesis of periodontal diseases, examination methods of patients with periodontal diseases and methods of treatment and prevention.

- Skills for determining the accurate diagnosis, treatment and prevention of periodontal diseases.
- Competencies for the etiology and pathogenesis of periodontal diseases, examination methods, treatment and prevention of periodontal diseases.

PROGRAM OF LECTURES AND EXERCISES

Lecture program:

LECTURES OF PERIODONTOLOGY - III GRADE – VI SEMESTER	
1. Clinical morphology of the periodontium	1 h
2. Macroscopic and microscopic anatomy of gingiva	1 h
3. Anatomy of periodontal ligament	1 h
4. Anatomy of root cementum	1 h
5. Clinical bone morphology.	1 h
6. Clinical morphology of edentulous alveolar ridge	1 h
7. Periodontal tactile perception and osseoperception	1 h
8. Epidemiology of periodontal disease.	1 h
9. Oral biofilms	1 h
10. Calculus	1 h
11. Periodontal infection	1 h
12. Pathogenesis of gingivitis	1 h
13. Pathogenesis of periodontitis.	1 h
14. Modifying factors	1 h
15. Occlusal trauma and periodontal tissues	1 h

LECTURE OF PERIODONTOLOGY IV GRADE – VII SEMESTER	
1. Non-plaque-induced inflammatory gingival lesions of bacterial, viral and fungal origin.	1 h
2. Non-plaque-induced inflammatory gingival lesions of genetic and systemic origin.	1 h
3. Non-plaque-induced inflammatory gingival lesions – traumatic lesions.	1 h
4. Plaque-induced gingival diseases – plaque-induced gingivitis.	1h
5. Plaque-induced gingival diseases modified by systemic risk factors.	1 h
6. Periodontitis – etiology, pathogenesis, clinical picture	1 h
7. Periodontitis – staging and grading.	1 h
8. Periodontitis – diagnosis, prognosis, therapy	1 h
9. Necrotizing periodontal disease	1 h

10. Periodontal disease as risk factor for systemic disease	1 h
11. Periodontal abscess.	1 h
12. Endo-periodontal lesions	1 h
13. Concepts of periodontal tissue regeneration.	1 h
14. Examination of a patient with a periodontal disease.	1 h
15. Periodontal risk assessment	1 h

LECTURES OF PERIODONTOLOGY - IV GRADE – VIII SEMESTER

1. Treatment planning of patient with periodontal disease.	2 h
2. Diagnosis and prognosis. Treatment sequence.	2 h
3. Systemic phase	2 h
4. Hygienic phase. Motivational interviewing	2 h
5. Mechanical supragingival plaque control	2 h
6. Chemical supragingival plaque control.	2 h
7. Non-surgical therapy – part I	2 h
8. Non-surgical therapy – part II	2 h
9. Non-surgical therapy – part III	2 h
10. Access flap therapy - part I	2 h
11. Access flap therapy – part II	2 h
12. Treatment of furcation involved teeth	2 h
13. Endodontic-periodontal lesions.	2 h
14. Antibiotics in periodontal therapy – systemic antibiotics	2 h
15. Antibiotics in periodontal therapy – local antimicrobial therapy	2 h

LECTURES OF PERIODONTOLOGY - V GRADE – IX SEMESTER

1. Regenerative therapy. Guided tissue regeneration – principles	2 h
2. Guided tissue regeneration - barrier membranes and bone grafting materials	2 h
3. Guided tissue regeneration - methods and techniques	2 h
4. Regenerative therapy with enamel matrix proteins	2 h
5. Healing response after guided tissue regeneration	2 h
6. Mucogingival therapy and plastic periodontal surgery for root coverage – rotational flap procedures.	2 h
7. Mucogingival therapy and plastic periodontal surgery for root coverage – barrier membranes or enamel matrix proteins, combined with rotational flap procedures.	2 h
8. Mucogingival therapy and plastic periodontal surgery for root coverage – soft tissue full thickness grafts	2 h
9. Mucogingival therapy and plastic periodontal surgery for root coverage – subepithelial connective tissue grafts	2 h

10. Healing process after root coverage procedures	2 h
11. Mucogingival therapy and plastic periodontal surgery – gingival augmentation procedures	2 h
12. Surgical therapy of abnormal frenulums and gingival-buccal ligaments	2 h
13. Periodontal plastic microsurgery	2 h
14. Supportive periodontal therapy.	2 h
15. Stabilization of teeth with increased mobility.	2 h

SIMULATED EXERCISES IN PERIODONTOLOGY III GRADE – VI SEMESTER

15 exercises - 2 academic hours

1st exercise

Topic: Morphology of periodontium.

PRACTICAL WORK ON SIMULATED MODELS

2nd exercise

Topic: Diagnosis of periodontal disease. Periodontal status - probing depth, level of margo gingivalis, clinical attachment level (CAL), CAL loss, CAL gain.

Assessment of furcation involvements, assessment of width of the attached gingiva. Tooth mobility.

Diagnostic instruments - periodontal probes.

PRACTICAL WORK ON SIMULATED MODELS

3th exercise

Topic: Periodontal chart.

PRACTICAL WORK ON SIMULATED MODELS

4th exercise

Topic: Diagnosis and prognosis of periodontal disease. Treatment plan, treatment sequence.

PRACTICAL WORK ON SIMULATED MODELS

5th exercise

Topic: Supragingival scaling with machine devices.

PRACTICAL WORK ON SIMULATED MODELS

6th exercise

Topic: Subgingival debridement of anterior teeth.

PRACTICAL WORK ON SIMULATED MODELS

7th exercise

Topic: Subgingival debridement of posterior teeth.

PRACTICAL WORK ON SIMULATED MODELS

8th exercise

Topic: Supragingival scaling and debridement in a quadrant and registration in a periodontal chart.

PRACTICAL WORK ON SIMULATED MODELS

9th exercise

Topic: Supragingival scaling and debridement in a quadrant and registration in a periodontal chart.

PRACTICAL WORK ON SIMULATED MODELS

10th exercise

Topic: Non-surgical periodontal therapy. Diagnosis. Treatment plan. Hygienic phase.

PRACTICAL WORK ON SIMULATED MODELS

11th exercise

Topic: Non-surgical periodontal therapy. Diagnosis. Treatment plan. Hygienic phase.

PRACTICAL WORK ON SIMULATED MODELS

12th exercise

Topic: Non-surgical periodontal therapy. Diagnosis. Treatment plan. Hygienic phase.

PRACTICAL WORK ON SIMULATED MODELS

13th exercise

Topic: Surgical flaps and suturing.

PRACTICAL WORK ON SIMULATED MODELS

14th exercise

Topic: Access flap surgery techniques

PRACTICAL WORK ON SIMULATED MODELS

15th exercise

Topic: Guided tissue regeneration on single tooth on a study model.

PRACTICAL WORK ON SIMULATED MODELS

Evaluating of student's work on an entire segment

CLINICAL EXERCISES IN PERIODONTOLOGY IV GRADE – VII SEMESTER

15 exercises - 2 academic hours

1st exercise

Clinical practice with patients.

2nd exercise

Clinical practice with patients.

3th exercise

SEMINAR: Plaque-induced gingivitis – clinical picture, DD, diagnosis, prognosis and evolution.
Treatment planning of gingivitis. Hygienic phase.
Clinical practice with patients.

4th exercise

Clinical practice with patients.

5th exercise

SEMINAR: Non-plaque induced gingival diseases - clinical picture, differential diagnosis, diagnosis, prognosis, evolution
Clinical practice with patients.

6th exercise

Clinical practice with patients.

7th exercise

Clinical practice with patients.

8th exercise

SEMINAR: Periodontitis - clinical picture, differential diagnosis, diagnosis, prognosis and evolution.
Clinical practice with patients.

9th exercise

Clinical practice with patients.

10th exercise

SEMINAR: Periodontitis, modified by systemic diseases - clinical picture, differential diagnosis, diagnosis, prognosis and evolution.
Clinical practice with patients.

11th exercise

Clinical practice with patients.

12th exercise

SEMINAR: Treatment of periodontal diseases - treatment plan. Hygienic phase.
Clinical practice with patients.

13th exercise

Clinical practice with patients.

14th exercise

Clinical practice with patients.

15th exercise

Clinical practice with patients.

**CLINICAL EXERCISES IN PERIODONTOLOGY IV GRADE – VIII
SEMESTER**

15 exercises - 3 academic hours

1st exercise

Clinical practice with patients.

2nd exercise

Clinical practice with patients.

3th exercise

Clinical practice with patients.

4th exercise

Clinical practice with patients.

5th exercise

SEMINAR: Mechanical and chemical supragingival plaque control.
Clinical practice with patients.

6th exercise

Clinical practice with patients.

7th exercise

Clinical practice with patients.

8th exercise

Clinical practice with patients.

9th exercise

Clinical practice with patients.

10th exercise

Clinical practice with patients.

11th exercise

SEMINAR: Systemic and local antimicrobial therapy in clinical practice. Recipe.
Clinical practice with patients.

12th exercise

Clinical practice with patients.

13th exercise

Clinical practice with patients.

14th exercise

Clinical practice with patients.

15th exercise

Clinical practice with patients.

CLINICAL EXERCISES IN PERIODONTOLOGY V GRADE – IX SEMESTER

15 exercises - 3 academic hours

1st exercise

Clinical practice with patients.

2nd exercise

Clinical practice with patients.

3th exercise

SEMINAR: Regenerative therapy – guided tissue regeneration and enamel matrix proteins
Clinical practice with patients.

4th exercise

Clinical practice with patients.

5th exercise

Clinical practice with patients.

6th exercise

Clinical practice with patients.

7th exercise

SEMINAR: Mucogingival therapy and plastic periodontal surgery – root coverage procedures.
Clinical practice with patients.

8th exercise

Clinical practice with patients.

9th exercise

Clinical practice with patients.

10th exercise

Clinical practice with patients.

11th exercise

Clinical practice with patients.

12th exercise

Clinical practice with patients.

13th exercise

PRACTICAL EXAM

14th exercise

PRACTICAL EXAM

15th exercise

PRACTICAL EXAM

BIBLIOGRAPHY:

prime literature source for theory exam:

Clinical Periodontology and Implant Dentistry, 2 Volumes, 7th Edition

by Jan Lindhe, Niklaus P. Lang, Thorkild Karring

ISBN: 978-1-119-43888-5

October 2021, Wiley-Blackwell

Hardcover, 1376 pages

E-book:

Clinical Periodontology and Implant Dentistry, 5th Edition

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July 20121, Wiley-Blackwell

Wiley E-Text, 1360 pages

Questionnaire for semester exam in periodontology

1. Clinical morphology of the periodontium – macroscopic and microscopic anatomy of gingiva.
2. Anatomy of periodontal ligament
3. Anatomy of root cementum
4. Clinical bone morphology.
5. Periodontal tactile perception and osseoperception.
6. Epidemiology of periodontal disease.
7. Oral biofilms and calculus.
8. Periodontal infection.
9. Pathogenesis of gingivitis.
10. Pathogenesis of periodontitis.
11. Modifying factors.
12. Occlusal trauma and periodontal tissues.
13. Non-plaque-induced inflammatory gingival lesions of bacterial, viral and fungal origin.
14. Non-plaque-induced inflammatory gingival lesions of genetic and systemic origin.
15. Non-plaque-induced inflammatory gingival lesions – traumatic lesions.
16. Plaque-induced gingival diseases – plaque-induced gingivitis. Plaque-retentive factors.
17. Plaque-induced gingival diseases – plaque-induced gingivitis, associated with sex hormones.
18. Plaque-induced gingival diseases – plaque-induced gingivitis, associated with systemic diseases.
19. Plaque-induced gingival diseases – plaque-induced gingivitis, associated with medications.
20. Periodontitis. Classification of periodontal diseases.
21. Periodontitis – staging and grading.

22. Periodontitis – diagnosis, prognosis, therapy
23. Necrotizing periodontal disease.
24. Periodontal disease associated with systemic diseases and conditions.
25. Periodontal abscess.
26. Examination of a patient with a periodontal disease.
27. Radiographic examination in patients with periodontal disease.
28. Treatment planning of patient with periodontal disease.
29. Diagnosis and prognosis.
30. Treatment sequence.
31. Systemic phase of therapy.
32. Hygienic phase. Motivational interviewing.
33. Mechanical supragingival plaque control.
34. Chemical supragingival plaque control.
35. Non-surgical therapy – hand instruments and machine devices.
36. Non-surgical therapy – root debridement technique.
37. Non-surgical therapy.
38. Gingivectomy and gingivoplasty
39. Access flap therapy - ENAP, apically displaced flap, modified Widman-Ramfjord flap.
40. Treatment of furcation involved teeth.
41. Endodontic-periodontal lesions.
42. Antibiotics in periodontal therapy.
43. Regenerative therapy. Guided tissue regeneration - principles.
44. Guided tissue regeneration - barrier membranes.
45. Guided tissue regeneration – bone grafting materials.
46. Guided tissue regeneration - methods and techniques.
47. Regenerative therapy with enamel matrix proteins.
48. Mucogingival therapy and plastic periodontal surgery - gingival augmentation procedures.
49. Mucogingival therapy and plastic periodontal surgery for root coverage – rotational flap procedures.

50. Mucogingival therapy and plastic periodontal surgery for root coverage – soft tissue grafts procedures.

51. Surgical treatment of abnormal frenulums and gingival-buccal ligaments.

52. Supportive periodontal therapy.

53. Stabilization of teeth with increased mobility.

Protocol №:

Department council №. 49

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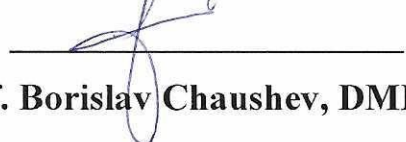
Faculty council №

Date:

Programme's author:

 / Prof. Borislav Chaushev, DMD, PhD

Head of department:



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