



Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT) General Information

| Module title: PERIODONTAL DISEASES | |
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| Module type | Obligatory |
| Faculty PMU | Faculty of Medicine and Dentistry |
| Major | Dentistry |
| Level of study | long-cycle (S2J) |
| Mode of study | full-time studies |
| Year of studies, semester | Year IV, semester VII |
| ECTS credits (incl. semester breakdown) | |
| Type/s of training | lectures (5h) /seminars (5h)/ practical (25h) |
| Form of assessment* | <input checked="" type="checkbox"/> graded assessment: <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral |
| Head of the Department/ Clinic, Unit | dr hab. n .med. Monika Machoy |
| Tutor responsible for the module | dr hab. n .med. Małgorzata Mazurek-Mochol, prof. PUM email: zperio@pum.edu.pl |
| Department's/ Clinic's/ Unit's website | Department of Periodontology e-mail: perio@pum.edu.pl phone: 914661745 https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-periodontologii |
| Language | English |

* replace into where applicable

Detailed information

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| Module objectives | | <p>The main aim of Periodontal Diseases is to:</p> <ul style="list-style-type: none"> • acquire practical skills in the diagnosis, differentiation, and comprehensive treatment of periodontal diseases, • learn practical cooperation with patients with periodontal disease and the use of basic periodontal treatments in prevention, treatment and preservation of treatment effects, • integrate knowledge of basic disciplines of the impact of periodontal disease on the general health of the patient. |
| Prerequisite /essential requirements | Knowledge | <p>Knowledge of:</p> <ul style="list-style-type: none"> • anatomy and physiology of parodontium, • principles of ergonomics and periodontal instrumentation, • types of periodontal diseases, diagnostic criteria and differentiation of periodontal disease, • algorithm of action in individual clinical periodontal disease, • impact of periodontal disease on the general health of the patient, • diagnostics and principles of treatment planning in occlusal trauma, masticatory parafunctions and functional disorders of the temporomandibular joint. |
| | Skills | <p>Skills of:</p> <ul style="list-style-type: none"> • using the periodontal instruments, • work according to the principles of ergonomics and teamwork including the "four hands" work, • subject survey, determining the health of parodontium and oral mucosa, • prevention and basic treatment of periodontal diseases |
| | Competences | <p>A habit of self-study, cooperation in a team, using all available sources of medical knowledge, respecting professional secrecy, awareness of the need for cooperation between the dentist and doctors of other specialties, cooperation in the patient-doctor-dental assistant team.</p> |

| Description of the learning outcomes for the subject /module | | | |
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| No. of learning outcome | Student, who has passed the (subject) knows /is able to /can: | SYMBOL (referring the standards) | Method of verification of learning outcomes* |
| W01 | knows and understands the principles of preventive and therapeutic management in the masticatory system diseases at various stages of development; | F.W2. | Continuous evaluation during exercises (entrance test) |
| W02 | knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups | F.W4. | Continuous evaluation during exercises (entrance test) and during the semester assessment |
| W03 | knows and understands diagnostics and treatment of periodontal and oral mucosa diseases | F.W9. | Continuous evaluation during exercises (entrance test) and during the semester assessment |

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| W04 | knows and understands causes of complications of stomatognathic system diseases and the rules of their management | F.W12. | Continuous evaluation during exercises (entrance test) and during the semester assessment |
| W05 | knows and understands rehabilitation methods for stomatognathic system | F.W14. | Continuous evaluation during clinical classes ET, S, PS, W |
| W06 | knows and understands rules of radiological diagnostics | F.W18. | Continuous evaluation during clinical classes and during final assessment |
| W07 | knows and understands pathomechanism of oral cavity diseases' influence on general health state | F.W19. | Continuous evaluation during clinical classes |
| W08 | knows and understands prophylaxis of oral cavity diseases | F.W21. | Continuous evaluation during clinical classes Practical skills testing |
| W09 | knows and understands principles of management of masticatory system tissues diseases, teeth and jaw bone trauma | F.W22. | Continuous evaluation during clinical classes |
| W10 | knows and understands the nature of dental care for a patient with a general disease as well as the principles of cooperation with a consultant physician | F.W23. | Continuous evaluation during clinical classes |
| U01 | is able to interview patient or his/her family | F.U1. | Continuous evaluation during clinical classes Practical skills testing |
| U02 | is able to carry out dental examination of patient | F.U2. | Continuous evaluation during clinical classes |
| U03 | is able to provide patient with explanation about nature of ailment, establish treatment confirmed by informed consent of the patient as well as establish prognosis | F.U3. | Continuous evaluation during clinical classes Practical skills testing |
| U04 | is able to provide patient or his/her family with the information about unfavourable prognosis | F.U4. | Continuous evaluation during clinical classes Practical skills testing |
| U05 | is able to sample and protect material for diagnostic tests, including cytology | F.U5. | Continuous evaluation during exercises (entrance test) and during the semester assessment |

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| U06 | is able to interpret results of auxiliary diagnostics and consultations | F.U6. | Continuous evaluation during clinical classes Practical skills testing and checking during semester assessment |
| U07 | is able to determine indications and contraindications to a specified dental procedure | F.U7. | Continuous evaluation during clinical classes Practical skills testing |
| U08 | is able to treat tooth-derived and non-tooth-derived acute and chronic inflammation of soft tissue, periodontium and jaw bones | F.U8. | Continuous evaluation during clinical classes Practical skills testing |
| U09 | is able to manage general and local complications during and after dental procedures | F.U9. | Continuous evaluation during clinical classes Practical skills testing |
| U10 | is able to prescribe medicines taking into account their interactions and side effects | F.U10. | Continuous evaluation during clinical classes Practical skills testing |
| U11 | is able to keep current patient records, refer patient to general and specialist dental and medical examination or treatment | F.U11. | Continuous evaluation during clinical classes Practical skills testing |
| U12 | is able to formulate research problems in dentistry | F.U12. | Continuous evaluation during clinical classes Practical skills testing |
| U13 | is able to present selected medical problems in oral or written form relevantly to recipient standards | F.U13. | Continuous evaluation during clinical classes |
| U14 | is able to establish treatment for stomatognathic system tissues diseases | F.U15. | Continuous evaluation during clinical classes |
| U15 | is able to diagnose and perform basic treatment of periodontal diseases | F.U17. | Continuous evaluation during clinical classes Practical skills testing and checking during semester assessment |
| K01 | is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences | K.1. | Continuous evaluation during clinical classes |

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| K02 | is ready to be guided by the patient wellbeing | K.2. | Continuous evaluation during clinical classes |
| K03 | is ready to respect physician-patient privilege and patient's rights | K.3. | Continuous evaluation during clinical classes |
| K04 | is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions | K.4. | Continuous evaluation during clinical classes |
| K05 | is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs | K.5. | Continuous evaluation during clinical classes |
| K06 | is ready to propagate health-promoting behaviour | K.6. | Continuous evaluation during clinical classes |
| K07 | is ready to use reliable sources of information | K.7. | Continuous evaluation during clinical classes |
| K08 | is ready to draw conclusions from own measurements or observations | K.8. | Continuous evaluation during clinical classes |
| K09 | is ready to implement the principles of professional fellowship and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment | K.9. | Continuous evaluation during clinical classes |
| K10 | is ready to formulate opinions on various aspects of professional activity | K.10. | Continuous evaluation during clinical classes |
| K11 | is ready to assume responsibility related to decisions taken as a part of professional activity, also in terms of own safety and the safety of others | K.11. | Continuous evaluation during clinical classes |

Table presenting LEARNING OUTCOMES in relation to the form of classes

| No. of learning outcome | Learning outcomes | Type of training | | | | | | |
|-------------------------|-------------------|------------------|---------|-----------|------------------|-------------|------------|----------|
| | | Lecture | Seminar | Practical | Clinical classes | Simulations | E-learning | Other... |
| 1. | F.W2. | X | | X | X | | | |
| 2. | F.W4. | X | | | X | | | |
| 3. | F.W9. | X | | X | X | | | |
| 4. | F.W12. | X | | | X | | | |
| 5. | F.W14. | | X | | X | | | |
| 6. | F.W18. | | | | X | | | |
| 7. | F.W19. | | | | X | | | |
| 8. | F.W21. | | | | X | | | |
| 9. | F.W22. | | | | X | | | |
| 10. | F.W23. | | | | X | | | |
| 11. | F.U1. | | | | X | | | |
| 12. | F.U2. | | | X | X | | | |

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| 13. | F.U3. | | X | X | | | | |
| 14. | F.U4. | | | | X | | | |
| 15. | F.U5. | | | | X | | | |
| 16. | F.U6. | | | | X | | | |
| 17. | F.U7. | | | X | X | | | |
| 18. | F.U8. | | | | X | | | |
| 19. | F.U9. | | | | X | | | |
| 20. | F.U10. | | X | | X | | | |
| 21. | F.U11. | | X | X | X | | | |
| 22. | F.U12. | | | | X | | | |
| 23. | F.U13. | | | | X | | | |
| 24. | F.U15. | | | | X | | | |
| 25. | F.U17. | | | | X | | | |
| 26. | K.1. | | | | X | | | |
| 27. | K.2. | | | | X | | | |
| 28. | K.3. | | | | X | | | |
| 29. | K.4. | | | | X | | | |
| 30. | K.5. | | | | X | | | |
| 31. | K.6. | | | | X | | | |
| 32. | K.7. | | | | X | | | |
| 33. | K.8. | | | | X | | | |
| 34. | K.9. | | | | X | | | |
| 35. | K.10. | | | | X | | | |
| 36. | K.11. | X | | | X | | | |

| Table presenting TEACHING PROGRAMME | | | |
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| No. of a teaching programme | Teaching programme | No. of hours | References to learning outcomes |
| Winter semester | | | |
| Lectures | | | |
| TK 01 | Etiology and etiopathogenesis of gingivitis and periodontitis. | 1 | W01,02, W08 |
| TK 02 | Non-surgical treatment of gingivitis and periodontitis. | 1 | W02, W03, W06 |
| TK 03 | Surgical treatment of gingivitis and periodontitis. | 1 | W03, W04 |
| TK 04 | Interdisciplinary and supportive treatment. | 1 | W03, W05, W06, W07 |
| TK 05 | Test assessment for the winter semester. | 1 | |
| Seminars | | | |
| TK01 | Anatomy and physiology of the periodontium. Etiopathogenesis of gingivitis and periodontitis. Indicators (API, BOP, PI, GI, CPITN, SBI, mSBI, PBI). Examination of periodontal parameters (PD, CAL, BL). | 1 | W01 |
| TK02 | Classification of gum and periodontal diseases (2017). Differentiation of gum and periodontal diseases, symptomatology. | 1 | W03, W04 |
| TK03 | Prophylactic of gingival and periodontal diseases. Non-surgical treatment (periodontal instrumentation, methods of non-surgical treatment). Radiological visualization of gingival and periodontal diseases. | 1 | W01, W05, W08 |
| TK04 | Maintenance phase in periodontal treatment. | 1 | W03, W06 |

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| TK05 | Schemes of comprehensive periodontitis treatment and management in acute periodontal conditions. Relationship of periodontitis with systemic diseases. | 1 | W03, W05, W09, W10 |
| Practical classes | | | |
| TK01 | Admitting patients, examining the condition of the periodontium and oral mucosa. Assessment of hygiene indicators, learning oral hygiene. Establishing a preventive and treatment plan. Performing professional hygiene treatments. | 25 | U01-14 K01-K10 |

Booklist

Obligatory literature

1. Articles about new classification of periodontal diseases

1. Caton J et al. A new classification scheme for periodontal and peri-implant diseases and conditions- introduction and key changes from the 1999 classification. *J Periodontol* 2018; 89 (Suppl 1):S1-S8.
2. Chapple ILC et al. Periodontal health and gingival diseases and conditions on an intact and a reduced periodontium: Consensus report of workgroup 1 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.* 2018; 89(Suppl 1): S74-S84.
3. Murakami S et al. Dental plaque-induced gingival conditions. *J Periodontol.* 2018; 89(Suppl 1):S17-S27.
4. Holmstrup P et al. Non-plaque-induced gingival diseases. *J Periodontol.*2018;89(Suppl 1): S28-S45.
5. Lang NP et al. Periodontal health. *J Periodontol.*2018; 89(Suppl 1): S9-S16.
6. Papanou PN et al. Periodontitis: Consensus report of Workgroup 2 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.*2018;89 (Suppl 1): S173-S182.
7. Herrera D et al. Acute periodontal lesions (periodontal abscesses and necrotizing periodontal diseases) and endo-periodontal lesions. *J Periodontol.* 2018 (Suppl 1): S85-S102.
8. Tonetti MS et al. Staging and grading of periodontitis: Framework and proposal of a new classification and case definition. *J Periodontol.* 2018;89 (Suppl 1): S159-S172.
9. Jepsen S et al. Periodontal manifestations of systemic diseases and developmental and acquired conditions: Consensus report of workgroup 3 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.*2018; 89 (Suppl 1): S237-S248.
10. Albandar JM et al. Manifestations of systemic diseases and conditions that affect the periodontal attachment apparatus: Case definitions and diagnostic considerations. *J Periodontol.*2018; 89 (Suppl 1):S183-S203.
11. Berglundh T et al. Peri-implant diseases and conditions: Consensus report of workgroup 4 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. *J Periodontol.*2018; 89 (Suppl 1): S313-S318.
12. Renvert S et al. Peri-implant health, peri-implant mucositis and peri-implantitis: Case definitions and diagnostic considerations. *J Periodontol.*2018;89 (Suppl1):S304-S312.
13. Cortellini P et al. Mucogingival conditions in the natural dentition: Narrative review, case definitions, and diagnostic considerations. *J Periodontol.* 2018;89 (Suppl 1): S204-S213.
14. Fan J et al. Occlusal trauma and excessive occlusal forces: Narrative review, case definitions, and diagnostic considerations. *J Periodontol.* 2018;89 (Suppl 1): S214-S222.
15. Ercoli C et al. Dental prostheses and tooth-related factors. *J Periodontol.*2018;89 (Suppl 1): S223-S236.

2. Articles about treatment of periodontitis

1. Sanz M. et al. Treatment of stage I–III periodontitis—The EFP S3 level clinical practice guideline. *Journal of Clinical Periodontology* 2020, 48, 1, 164-165. *J Clin Periodontol* 2020,47,22:4-60.
2. Tonetti M., Sanz M. Implementation of the new classification of periodontal diseases: Decision-making algorithms for clinical practice and education. *J Clin Periodontol.* 2019 Apr;46(4):398-405.
3. *Clinical Periodontology and Implant Dentistry.* Edited by J. Lindhe, Niklaus P.Lang. Chichester: Wiley Blackwell, 2015.

Supplementary literature

1. *Periodontology- The Essentials.* Hans-Peter Mueller Thieme; Edycja 2. (2015)
2. *Periodontology: Color Atlas of Dental Medicine* by Herbert F. Wolf, Edith M. Rateitschak-Pluss Klaus H. Rateitschak
3. *Carranza's Clinical Periodontology* by Michael G. Newman, Henry Takei, Fermin A. Carranza, Perry R. Klokkevold

Procedure standards required to pass the year:

1. Examination of periodontal indicators - 7
2. Measurements of periodontal parameters - 7
3. Scaling + polishing Phase I - 10
4. 4. Scaling + polishing phase III - 10
5. Subgingival scaling + polishing - 10
6. General hygiene instruction - 15
7. Interdental hygiene instructions - 15
8. 8. Analysis of occlusal conditions - 2
9. Selective grinding of nodules - 2
10. Immobilization - 1
11. Assistance to the procedure - 1
12. 12. Comprehensive periodontal treatment plan - 3
13. Anaesthesia - 3

Student's workload

| Form of student's activity (in-class participation; activeness, produce a report, etc.) | Student's workload [h] |
|--|------------------------|
| | Tutor |
| Contact hours with the tutor | 35 |
| Time spent on preparation to seminars/ practical classes | 10 |
| Time spent on reading recommended literature | 5 |
| Time spent on writing report/making project | |
| Time spent on preparing to colloquium/ entry test | 10 |
| Time spent on preparing to exam | |
| Other | |
| Student's workload in total | 60 |
| ECTS credits for the subject (in total) | 2 |

| Remarks |
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| <p>* Selected examples of methods of assessment: EP – written examination EU – oral examination ET – test examination EPR – practical examination K – colloquium R – report S – practical skills assessment RZC – practical classes report, incl. discussion on results O – student’s active participation and attitude assessment SL – lab report SP – case study PS - assessment of student’s ability to work independently W – entry test PM – multimedia presentation other...</p> |