



Pomeranian Medical University in Szczecin

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 | Medicine and Dentistry |
| Level of study | long-cycle (S2J) |
| Mode of study | full-time studies |
| Year of studies, semester | Year 3, semester v and VI |
| ECTS credits (incl. semester breakdown) | 3 ECTS (semester V-1, semester VI-2) |
| Type/s of training | lectures 10h (5h and 5h) /seminars 10h (5h and 5h)/ practical 35h (10h and 25h) = 55 h |
| Form of assessment* | <input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input type="checkbox"/> practical <input checked="" type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <ul style="list-style-type: none"> <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. Elżbieta Dembowska |
| Tutor responsible for the module | dr hab. n. med. Małgorzata Mazurek-Mochol |
| Department's/ Clinic's/ Unit's website | 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 prepare a student to work with a patient in the prevention and basic treatment of periodontal disease. Specific learning objectives of the module include:</p> <ul style="list-style-type: none"> the acquisition of research skills in particular oral periodontal assessment of oral hygiene and periodontal tissue condition documented by selected indicators gain knowledge on the etiopathogenesis of periodontal disease, in particular the importance of bacterial biofilm familiarize students with instruments for removing dental deposits and instruments for the control of oral hygiene gain practical skills in scaling and performing hygienic treatments in prevention and primary treatment of periodontitis 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 the:</p> <ul style="list-style-type: none"> anatomy and physiology of the oral cavity with a special focus on periodontal structure and characteristics of the oral mucosa etiopathogenesis, diagnosis and differentiation of periodontal diseases non-surgical treatment of periodontal diseases |
| | Skills | An ability to select the basic dental instruments, ability to work with the active assistance and the ability to actively assist. |
| | Competences | A habit of self-study, the use of different sources of knowledge, including scientific literature, the Internet. Ability to work in a team. |

| 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 mechanism leading to organ and systemic pathology (incl. of infection, auto-immunological diseases and ones caused by immune deficit, metabolic and genetic diseases) | K_F.W02 | Continuous evaluation during exercises. Checking of the practical skills. |
| W02 | knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development | K_F.W03 | |
| W03 | knows symptoms, course and procedures for certain diseases of oral cavity, head and neck with regard to age groups | K_F.W05 | |

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| W04 | knows diagnostics and treatment of parodontium and diseases of oral mucosa | K_F.W11 | |
| W05 | knows causes and procedures for management with complications of stomatognathic system diseases | K_F.W14 | |
| W06 | knows principles of acid-base equilibrium and transport of oxygen and carbon dioxide in human body | K_F.W21 | |
| U01 | interviews patient or his/her family | K_F.U01 | Continuous evaluation during exercises. Checking of the practical skills. |
| U02 | carries out physical examination of patient | K_F.U02 | |
| U03 | provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis | K_F.U03 | |
| U04 | provides patient or his/her relatives with bad news about health state | K_F.U04 | |
| U05 | samples and protects material for diagnostic examination (incl. of cytology) | K_F.U05 | |
| U06 | interprets results of ancillary tests | K_F.U06 | |
| U07 | finds indications as to performance of certain dental procedure | K_F.U07 | |
| U08 | knows prophylaxis of oral cavity diseases | K_F.U08 | Continuous evaluation during exercises. Checking of the practical skills. |
| U09 | knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones | K_F.U09 | |
| U10 | treats acute and chronic tooth-related and non-tooth-related inflammation of oral cavity soft tissue, parodontium and jaw bones | K_F.U10 | |
| U11 | knows procedures applicable to cases of general and local complications during and after dental treatment | K_F.U11 | |
| U12 | prescribes drugs with regard to their interactions and side effects | K_F.U12 | |
| U13 | keeps day-to-day patient's records, refers patient to general and special dental and medical examination or treatment | K_F.U13 | |
| U14 | recognizes his/her personal constraints, self-evaluates deficits and education requirements, plans his/her own education activity and evaluation thereof | K_F.U14 | |
| U15 | presents selected medical issues in written or oral form relevantly to recipient standards | K_F.U15 | |
| U16 | establishes treatment in diseases of stomatognathic system tissues | K_F.U18 | |
| U17 | diagnoses and treats parodontium disease to basic extent | K_F.U20 | |
| K01 | shows habit of self-education and lifelong education | K_K01 | Continuous evaluation during exercises. |
| K02 | accepts need of standards of conduct and legislation regarding medical practice | K_K02 | |
| K03 | can co-operate with team members and care about occupational safety | K_K03 | |

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| K04 | shows respect to human body | K_K04 | Checking of the practical skills. |
| K05 | shows respect to patient, social groups and cares for their goodwill and security | K_K05 | |
| K06 | understands proper examiner/examined relationship | K_K08 | |
| K07 | understands need for keeping professional secrecy and showing respect to patients' rights | K_K09 | |

Table presenting LEARNING OUTCOMES in relation to the form of classes

| No. of learning outcome | Learning outcomes | Type of training | | | | | | |
|-------------------------|-------------------|------------------|---------|-------------------|------------------|-------------|------------|----------|
| | | Lecture | Seminar | Practical classes | Clinical classes | Simulations | E-learning | Other... |
| 1. | K_F.W02 | X | | | X | | | |
| 2. | K_F.W03 | X | | X | X | | | |
| 3. | K_F.W05 | X | | | X | | | |
| 4. | K_F.W11 | X | | X | X | | | |
| 5. | K_F.W14 | X | | | X | | | |
| 6. | K_F.W21 | | X | | X | | | |
| 7. | K_F.U01 | | | | X | | | |
| 8. | K_F.U02 | | | | X | | | |
| 9. | K_F.U03 | | | | X | | | |
| 10. | K_F.U04 | | | | X | | | |
| 11. | K_F.U05 | | | | X | | | |
| 12. | K_F.U06 | | | X | X | | | |
| 13. | K_F.U07 | | X | X | | | | |
| 14. | K_F.U08 | | | X | X | | | |
| 15. | K_F.U09 | | X | | | | | |
| 16. | K_F.U10 | | | | X | | | |
| 17. | K_F.U11 | | | | X | | | |
| 18. | K_F.U12 | | | | X | | | |
| 19. | K_F.U13 | | | X | X | | | |
| 20. | K_F.U14 | | | | X | | | |
| 21. | K_F.U15 | | | | X | | | |
| 22. | K_F.U18 | | X | | X | | | |
| 23. | K_F.U20 | | X | X | X | | | |
| 24. | K_K01 | | | | X | | | |
| 25. | K_K02 | | | | | | | |
| 26. | K_K03 | | | X | X | | | |
| 27. | K_K04 | | | | X | | | |
| 28. | K_K05 | | | | X | | | |
| 29. | K_K08 | | | X | X | | | |
| 30. | K_K09 | | | | 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 | | | |
| TK01 | Periodontal anatomy. | 1 | W02, U09 |
| TK02 | Prevention of periodontal disease - part one. | 1 | W02 |
| TK 03 | Prevention of periodontal disease - part two. | 1 | W02, W04 |
| TK 04 | Non-surgical treatment of gum disease and periodontitis - part one. | 1 | W03, W04 |
| TK 05 | Semester test. | 1 | TK 05 |
| Seminars | | | |
| TK01 | Periodontal examination-part one. | 1 | W04 |
| TK02 | Periodontal examination-part two. | 1 | W04, W05 |
| TK 03 | Microbiology of plaque. Bacterial biofilm and its role in the etiology of gum and periodontal diseases. Dental calculus. | 1 | W02 |
| TK 04 | Non-surgical treatment of gum disease and periodontitis - part one. | 1 | W03, W04 |
| TK05 | Differences in the clinical picture of healthy periodontium, gingivitis and periodontitis. | 1 | W04, W05 |
| Practical classes | | | |
| TK01 | Periodontal patient examination card. Introduction to periodontal instruments. Simulation of plaque indexing on phantom models. Presentation of selected plaque staining preparations. | 2 | U13, U17, K06 |
| TK02 | Preventive and treatment plan. Periodontal patient examination card - cont. Demonstration of periodontal anatomy on phantom models. Periodontal instrumentation. Hand instrumentation for dental deposits removal. Calibrated periodontal probes – general design characteristics; types of periodontal probes. | 2 | U13, U17, U08 |
| TK03 | Nabers probe. Study of tooth mobility. Periotest. Practice methods of toothbrushing on models. Practice of cleaning interdental spaces on models. Presentation and discussion of additional oral hygiene aids. Instruments for examination of periodontium. Instruments for manual scaling - cont. Indirect and direct support. | 2 | U06, U08, W04 |

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| TK04 | Manual instrumentation - cont. Overview of mechanical scalers (magnetostrictive, piezoelectric). Tips for scaling and root planning. Dental sandblasters. | 2 | U07, U17, W02 |
| TK05 | Manual and machine tools - cont. Plaque and gingival condition - indicators - cont. Periodontal anatomy on phantom models - cont. Periodontal examination chart. Methods of dental prophylaxis. | 2 | K06, U13, U06, U07, U08, U17 |
| Simulation | | | |
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| E-learning | | | |
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| Summer semester | | | |
| Lectures | | | |
| TK01 | Healthy periodontium and gingival diseases on healthy or reduced periodontium | 1 | W01 |
| TK02 | Classification of periodontitis. Staging and grading of periodontitis. | 1 | W03, W05 |
| TK03 | Comprehensive treatment of gingivitis and periodontitis- part I | 1 | W05, W11 |
| TK04 | Comprehensive treatment of gingivitis and periodontitis- part II | 1 | W05, W11 |
| TK05 | Final test | 1 | |
| Seminars | | | |
| TK01 | Patomechanism of changes in periodontal tissues and progression of periodontopathy. | 1 | W01 |
| TK02 | Acute conditions of periodontium. | 1 | W03 |
| TK03 | Symptoms of systemic diseases and conditions affecting the periodontal structures. | 1 | W01, W02 |
| TK04 | Radiological visualization of normal periodontium and pathological changes in periodontium. | 1 | W04, W06 |
| TK05 | Other conditions affecting the periodontium. Teeth mobility. Determination of tooth immobilization indicators. | 1 | W05 |
| Practical classes | | | |
| TK06 | Periodontal patient examination card. Introduction to periodontal instruments. | 1 | U01, U07, U13, U17 |
| TK07 | Preventive and treatment plan. | 1 | U03, U06, U08, U09, U10, U11, U12 |
| TK08 | Periodontal examination. | 1 | U02, U17 |
| TK09 | Clinical exercises with patients | 22 | U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U15, U16, U17, K01, K02, K03, K04, K05, K06, K07 |
| Simulation | | | |
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| E-learning | | | |
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| Booklist |
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| Obligatory literature: |
| 1. The Periodontic Syllabus by Arthur R. Vernino, Jonathan Gray, Elizabeth Hughes. Wolters Kluwer/ Lippincott Williams & Wilkins. Fifth edition. 2008 |
| 2. Carranza's Clinical Periodontology by Michael G. Newman, Henry Takei, Fermin A. Carranza, Perry R. Klokkevoold |
| 3. Periodontology: Color Atlas of Dental Medicine by Herbert F. Wolf, Edith M. Rateitschak-Pluss Klaus H. Rateitschak |
| Supplementary literature: |
| 1. |
| 2. |

| 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 | 55 |
| Time spent on preparation to seminars/ practical classess | 35 |
| Time spent on reading recommended literature | 10 |
| 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 | 110 |
| ECTS credits for the subject (in total) | 3 |
| Remarks | |
| | |

* 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 – multimedial presentation

other...