



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

| Module title: Periodontal and mucous membrane 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 5 (semester IX and X) |
| ECTS credits (incl. semester breakdown) | 7 ECTS (semester IX-4, semester X-3) |
| Type/s of training | seminars (8h)/ practical 95h (sem.ix-45h, sem.X-50h) |
| Form of assessment* | <input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input checked="" type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" 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-medycyny-i-stomatologii/zaklad-periodontologii |
| Language | English |

* replace ☐ into ☒ where applicable

Detailed information

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| Module objectives | | <p>The aim of Periodontal and Mucosal 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, • familiarize students with the symptomatology, diagnosis and preventive treatment of selected diseases of oral mucosa, with particular emphasis on changes and precancerous conditions, • acquire the ability to use additional examinations, • acquire skills in treatment of diseases of oral mucosa including pharmacological and physical therapy. |
| 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. • the anatomy and physiology of oral mucosa, • oral microbiology, • rules for collecting biological material for microbiological, cytological and histological examination; <p>the capabilities and the use of immunoassays in the histopathological diagnosis of selected diseases of oral cavity.</p> |
| | 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. <p>An ability to:</p> <ul style="list-style-type: none"> • diagnose deviations from the physiology of oral cavity, • interpret the results of additional blood tests, • check blood pressure, handling shock and cardiac arrest, • communicate in a professional way with patients of all ages, • manage patient medical records. |
| | Competences | <p>A habit of self-education, teamwork, use of all available sources of medical knowledge, respect for professional secrecy, an awareness of the need for cooperation of dentist with doctors of other specialties, cooperation in a team patient-doctor-dental assistant.</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 occlusion norms in different phases of ontogenesis and deviations from norms | K_F.W01 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| W02 | 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 Exam test |
| W03 | knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development | K_F.W03 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| W04 | knows viral, bacterial and mycotic flora of oral cavity and importance thereof | K_F.W04 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| W05 | knows symptoms, course and procedures for certain diseases of oral cavity , head and neck with regard to age groups | K_F.W05 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| W06 | knows rules of administering local anesthesia in area of stomathognathic system | K_F.W06 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| W07 | knows principles of conduct of pulp diseases and mineralized tooth tissue and injury of tooth and facial skeleton | K_F.W07 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| W08 | knows diagnostics and treatment of parodontium and diseases of oral mucosa | K_F.W11 | Continuous evaluation during exercises Checking of the practical skills Test exam |

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| 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 | Continuous evaluation during exercises Checking of the practical skills |
| U03 | provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis | K_F.U03 | Continuous evaluation during exercises Checking of the practical skills |
| U04 | provides patient or his/her relatives with bad news about health state | K_F.U04 | Continuous evaluation during exercises Checking of the practical skills |
| U05 | samples and protects material for diagnostic examination (incl. of cytology) | K_F.U05 | Continuous evaluation during exercises Checking of the practical skills |
| U06 | interprets results of ancillary tests | K_F.U06 | Continuous evaluation during exercises Checking of the practical skills |
| U07 | finds indications as to performance of certain dental procedure | K_F.U07 | Continuous evaluation during exercises Checking of the practical skills |
| U08 | knows prophylaxis of oral cavity diseases | K_F.U08 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| U09 | knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones | K_F.U09 | Continuous evaluation during exercises Checking of the practical skills Exam test |
| U10 | treats acute and chronic tooth-related and non-tooth-related inflammation of oral cavity soft tissue, paradontium and jaw bones | K_F.U10 | Continuous evaluation during exercises Checking of the practical skills |
| U11 | knows procedures applicable to cases of general and local complications during and after dental treatment | K_F.U11 | Continuous evaluation during exercises Checking of the practical skills |

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| | | | Exam test |
| U12 | prescribes drugs with regard to their interactions and side effects | K_F.U12 | Continuous evaluation during exercises Checking of the practical skills |
| U13 | keeps day-to-day patient's records, refers patient to general and special dental and medical examination or treatment | K_F.U13 | Continuous evaluation during exercises Checking of the practical skills |
| U14 | presents selected medical issues in written or oral form relevantly to recipient standards | K_F.U15 | Continuous evaluation during exercises Checking of the practical skills |
| U15 | establishes treatment in diseases of stomatognathic system tissues | K_F.U18 | Continuous evaluation during exercises Checking of the practical skills |
| U16 | diagnoses and treats parodontium disease to basic extent | K_F.U20 | Continuous evaluation during exercises Checking of the practical skills |
| K01 | shows habit of self-education and lifelong education | K_K01 | Continuous evaluation during exercises Checking of the practical skills |
| K02 | accepts need of standards of conduct and legislation regarding medical practice | K_K02 | Continuous evaluation during exercises Checking of the practical skills |
| K03 | can co-operate with team members and care about occupational safety | K_K03 | Continuous evaluation during exercises Checking of the practical skills |
| K04 | shows respect to human body | K_K04 | Continuous evaluation during exercises Checking of the practical skills |
| K05 | shows respect to patient, social groups and cares for their goodwill and security | K_K05 | Continuous evaluation during exercises Checking of the practical skills |
| K06 | understands proper examiner/examined relationship | K_K08 | Continuous evaluation during exercises Checking of the practical skills |
| K07 | understands need for keeping professional secrecy and showing respect to patients' | K_K09 | Continuous evaluation |

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| | rights | | during exercises Checking of the practical skills |
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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.W01 | | x | | | | | |
| 2 | K_F.W02 | | x | | | | | |
| 3 | K_F.W03 | | x | | | | | |
| 4 | K_F.W04 | | x | | | | | |
| 5 | K_F.W05 | | x | | | | | |
| 6 | K_F.W06 | | x | | | | | |
| 7 | K_F.W07 | | x | | | | | |
| 8 | K_F.W11 | | x | | | | | |
| 9 | K_F.U01 | | | | x | | | |
| 10 | K_F.U02 | | | | x | | | |
| 11 | K_F.U03 | | | | x | | | |
| 12 | K_F.U04 | | | | x | | | |
| 13 | K_F.U05 | | | | x | | | |
| 14 | K_F.U06 | | | | x | | | |
| 15 | K_F.U07 | | | | x | | | |
| 16 | K_F.U08 | | | | x | | | |
| 17 | K_F.U09 | | | | x | | | |
| 18 | K_F.U10 | | | | x | | | |
| 19 | K_F.U11 | | | | x | | | |
| 20 | K_F.U12 | | | | x | | | |
| 21 | K_F.U13 | | | | x | | | |
| 22 | K_F.U15 | | | | x | | | |
| 23 | K_F.U18 | | | | x | | | |
| 24 | K_F.U20 | | | | x | | | |
| 25 | K_K01 | | | | x | | | |
| 26 | K_K02 | | | | x | | | |
| 27 | K_K03 | | | | x | | | |
| 28 | K_K04 | | | | x | | | |
| 29 | K_K05 | | | | x | | | |
| 30 | K_K08 | | | | x | | | |
| 31 | 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 | | | |
| Seminars | | | |
| TK 01 | Etiology and etiopathogenesis of periodontal diseases. Dental plaque over-and subgingival, direct and indirect effect, mechanisms of bacteria virulence, marker bacteria. Classification, signs, symptoms and differential diagnosis of gingival and periodontal diseases. | 1 | W02 |
| TK 02 | Non-surgical therapy of periodontal diseases. Plaque and gingival indices (CPITN, API, SBI), instruction of oral hygiene. Professional plaque removal - techniques, instruments. Supportive pharmacotherapy. Splinting therapy. | 1 | W02, W03, W05, W06 |
| TK 03 | Surgical therapy of periodontal diseases Recommendations for selected treatments for periodontium: closed curettage, open curettage, flap surgery for epulis. Regenerative treatments for bone pockets (SRT, biomaterials). Treatment of root furcation (regenerative - SRT, resection - radectomy, hemisection), postoperative proceedings. | 1 | W02, W05, W06 |
| TK 04 | Occlusive disorders and rehabilitation of masticatory. Periodontal maintenance therapy in complex therapy of periodontal diseases. Prosthetic, implant and orthodontic treatment in periodontal diseases. Procedure for periimplantitis. Photodisinfection. Laserotherapy. | 1 | W01, W02, W03, W05, W06, W08 |
| TK05 | Oral lesions with blisters and vesicles: herpesvirus infections and autoimmune diseases: pemphigus, pemphigoid, erythema exudative. | 1 | W02, W03, W05, W06, W08 |
| TK06 | Changes in the mouth with white, red and white-red changes: candidosis, atrophic stomatitis, lupus erythematosus, scleroderma, sexually transmitted diseases, diseases caused by papilloma virus (HPV), keratosis disorders: leukoplakia, lichen planus, white sponge nevus, hairy tongue, actinic cheilitis, geographic tongue. | 1 | W02, W03, W05, W06, W08 |
| TK07 | Pre-cancerous conditions (Gwieżdździński's classification). Preventive oncology. Oral mucositis in the course of chemo- and radiotherapy. Graft versus host disease. Preparation of the dental patient for the treatment of cancer. | 1 | W02, W03, W07 |
| TK08 | Burning mouth syndrome. Principles of diagnosis and treatment. Differential diagnosis with oral candidosis, atrophic stomatitis, | 1 | W02, W03, W05, W08 |

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| | xerostomia, pain syndromes, denture and orthodontic stomatitis and Sjogren's syndrome. | | |
| Practical classes | | | |
| TK1 | Clinical exercises with patients Admission of patients, examination of the periodontium and oral mucosa condition. Assessment of hygiene indicators, learning about oral hygiene. Establishing a preventive and therapeutic plan. Performing professional hygiene treatments, splinting of teeth. | 45 | U01, U02, U03, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, K01, K02, K03, K04, K05, K06, K07 |
| Summer semester | | | |
| Practical classes | | | |
| TK01 | Classification of periodontal and peri-implant diseases 2017. | 1 | W02, W04, W11, |
| TK02 | Healing of wound in the periodontium. Surgical periodontal treatment. Resection and regenerative surgery. | 1 | W02, W04 |
| TK03 | Surgical possibilities of improving the prosthetic field before prosthetic treatment: surgical lengthening of crowns, methods of preserving the ridge after extraction, reconstruction of soft tissues and bones within the edentulous process. | 1 | W01, W03, W07 |
| TK04 | The specificity of prosthetic treatment of patients with periodontitis - characteristics of fixed and removable restorations. | 1 | W01, W03, W07 |
| TK05 | Algorithms for comprehensive treatment of periodontitis (sequence of proceedings, difficult and questionable cases, decision errors). | 1 | W03, W05, W06, W07, |
| TK06 | Lesions on the cheek mucosa, mouth-atrium and mouth-floor. Lesions of the gums, toothless alveolar process and palate. | 1 | W02, W04, W11 |
| TK07 | Lesions on the tongue. Lesions on the lips. | 1 | W02, W04, W11 |
| TK08 | Diseases of the salivary glands and associated clinical symptoms in the oral cavity. | 1 | W02, W04, W11 |
| TK09 | Oral changes due to blood diseases. Preparation of a patient for hematopoietic stem cell transplantation. Patient care after transplantation. | 1 | W02, W04, W07, W11 |
| TK10 | Oral changes in children. | 1 | W01, W02, W04, W11 |
| TK11 | The influence of nicotine on periodontium and oral mucosa. Methods of combating nicotine addiction. Minimal anti-smoking intervention. | 1 | W02 |
| TK12 | Antibiotic therapy in dentistry - discussion of the Recommendations of the Polish Dental Society and the National Program for the Protection of Antibiotics Working Group on the use of antibiotics in dentistry. | 1 | W07, W11 |

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| TK13 | Admission of patients, examination of the periodontium and oral mucosa condition. Assessment of hygiene indicators, learning about oral hygiene. Establishing a preventive and therapeutic plan. Performing professional hygiene treatments, splinting of teeth. | 38 | U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, K01, K02, K03, K04, K05, K06, K07 |
| Booklist | | | |
| 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. Klokkevold | | | |
| 3. Periodontology: Color Atlas of Dental Medicine by Herbert F. Wolf, Edith M. Rateitschak-Pluss Klaus H. Rateitschak | | | |

| Student's workload | |
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| Form of student's activity (in-class participation; activeness, produce a report, etc.) | Student's workload [h] |
| | Tutor |
| Contact hours with the tutor | 103 |
| Time spent on preparation to seminars/ practical classess | 20 |
| Time spent on reading recommended literature | 5 |
| Time spent on writing report/making project | |
| Time spent on preparing to colloquium/ entry test | |
| Time spent on preparing to exam | 15 |
| Other | |
| Student's workload in total | 143 |
| ECTS credits for the subject (in total) | 7 |
| 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...