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| **Syllabus 2019/2020** |
| **Description of the course** |
| **Module/Course** | CLINICAL PHARMACOLOGY | **Group of detailed education results**  |
| **Group code** | **Group name**English Division |
| **Faculty** | DENTISTRY |
| **Major**  |  |
| **Specialties** |  |
| **Level of studies** | Uniform magister studies \*1st degree studies X 2nd degree studies  3rd degree studies  postgraduate studies  |
| **Form of studies** |  full-time  part-time |
| **Year of studies**  |  | **Semester** | X Winter Summer |
| **Type of course** | X obligatory limited choice free choice / elective  |
| **Course** |  major  basic |
| **Language of instruction** |  Polish X English  other |
| \* mark  with an **X** |
| **Number of hours** |
| Form of education |
| Unit teaching the course | Lectures (L) | Seminars (SE) | Auditorium classes (AC) | Major Classes – not clinical (MC) | Clinical Classes (CC) | Laboratory Classes (LC) | Classes in Simulated Conditions (CSC) | Practical Classes with Patient (PCP) | Specialist Classes – magister studies (SCM) | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) | Self-Study (Student's own work) | E-learning (EL) |
| **Winter Semester: 0** |
| **Summer Semester** |
|  |  |  | 30 |  |  |  |  |  |  |  |  |  | 40 |  |
| **TOTAL per year:** |
|  |  | **30** |  |  |  |  |  |  |  |  |  | 40 |  |
| **Educational objectives** (max. 6 items)1. Application of theoretical pharmacology knowledge learned in 3th year, in the dentist area. 2. Developing the ability to analyze information on the drugs used in dental practice contained in the Ph. Eur. 7 and its supplements or older edition as well as the drug information leaflet . Developing the ability of pharmacological treatment planning or adjunctive therapy in dental practice using the knowledge based in the field of clinical pharmacology. 3. Awareness of the role of clinical pharmacology knowledge in the practice of dentist. Education of the drug leaflet, as well as the significance of the task that is placed on the dentist in his private practice in relation to the proper reporting of adverse drug reactions to the appropriate authority. |
| **Education result matrix for module/course in relation to verification methods of the intended education result and the type of class** |
| Number of course education result  | Number of major education result  | Student who completes the module/course knows/is able to | Methods of verification of intended education results (forming and summarising) | Form of didactic class*\*\*enter the abbreviation* |
| **W 01** | 1.C.W182.C.W193.C.W14 |  | 1. Understands the mechanisms of drug action and pharmacokinetics and biotransformation of various classes of drugs 2. Apply indications and contraindications to the use of drugs, their dosage, side effects and toxicity, and drug-drug interactions; 3. Knows the diagnostic methods used in pathology and laboratory role in the prevention and diagnosis of organ and system disturbances  | SE, CS |
| **U 01** | 1. D.U3. |  | 1. Selects a treatment that minimizes the social consequences for the patient  | SE |
| **K 01** |  |  |  |  |
| \*\* L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .  |
| Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:Knowledge: 4Skills: 1Social competences: 1 |
| **Student's amount of work (balance of ECTS points)** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload (h)** |
| 1. Contact hours: | 30 |
| 2. Student's own work (self-study): | 40 |
| Total student's workload | 70 |
| **ECTS points for module/course** | 0,5 |
| Comments  |  |
| **Content of classes** (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects) |
| **Lectures** ---- |
| **Seminars** During the course, students will take an active part in interactive lectures and lectures presented by teacher. Each participant of the seminar will describe in power point programme the project selected by him/her from a list provided by the teacher. The presentation should be focusing on the most relevant information about the process/drug selected (f.eg. for a drug: the drug release from the dosage form, administration of the drug, its metabolism, and removing from the body.) **1. The first part of the classes:** Introduction to Clinical Pharmacology course. Description of activities, forms of student’s activity during class assessment, an introduction to Clinical Pharmacology classes during the winter semester, establishment of organizational matters.**The second part of the classes:** Interactive lecture. Concepts and methods used in clinical pharmacology - the description of the pattern of drug in the body.*2.***The first part of class:** Students' individual presentations.**The second part of the classes:** Interactive lecture. Drug interactions, drug interaction implications.*3.***The first part of the classes:** Students' individual presentations. Discussion about the presentation.**The second part of the classes:** Interactive lecture. Factors determining the adverse effects of drugs, organ damage and organ dysfunction of the body. Methods of prevention and monitoring of adverse drug reactions.**5. The first part of the classes:** Students' individual presentations. Discussion about the presentation.**The second part of the classes:** Lecture. Determination of drug influence on the patient's laboratory results.*6.***The first part of the classes:** Students' individual presentations. Discussion about the presentation.**The second part of the classes:** Lecture. Changes of drug action in relation to the patient's pathological condition.7. **The first part of class:** Students' individual presentations. Discussion about the presentation.**The second of the classes:** Lecture. Diversity of age and physiological condition of the patient, and its influence to the use of medication, due to the pharmacotherapy of newborns, pregnant women and nursing mothers, or the elderly.**8. The first of the classes:** Students' individual presentations. Discussion about the presentation.**The second of the classes:** Interactive lecture. Pharmacogenetics and pharmacogenomics - what and for whom? Introduction to the classes of clinical trials.**9. The first part of the classes:** Students' individual presentations. Discussion about the presentation.**The second part of the classes:** Interactive lecture. Evidence Based Medicine, EBM, Good Clinical Practice, GCP. Fitotherapy - therapy with the use of herbs for lichenoid lesions in oral cavity.**10. The first part of the classes:** Individual project of students. Interactive presentations (in power point program) of the selected drug or process. Discussion about the presentation.**Second part of classes:** practice of writing Yellow Chart for adverse drug effects.Pharmacoeconomics and social pharmacology: Comparative seminar.Perioperative antibiotic prophylaxis:♦ basic principles of antibiotic prophylaxis according to Peterson (1990r.)♦ surgical division due to risk of postoperative infections (Ehrenkranz, 1993)Subdivision of disinfectants in dentistry (organic and inorganic). |
| **Practical classes** ---- |
| **Other** **1.** *etc. …* |
| **Basic literature** (list according to importance, no more than 3 items)1. Basic & Clinical Pharmacology, Katzung BG, Mc Graw Hill, 10th Ed, 2007
2. Goodman & Gilman’s, The Pharmacological Basis of Therapeutics. L Brunton, J Lazo, IBuxton, D Blumenthal, McGraw-Hill, 11th Ed, 2006

**Additional literature and other materials** (no more than 3 items) |
| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)**Computer, projector.** |
| **Preliminary conditions** (minimum requirements to be met by the student before starting the module/course) **Knowledge of pharmacology - finished course of basic pharmacology.** |
| **Conditions to receive credit for the course** (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be med by the student to pass it and criteria for specific grades)The student performed during the course one presentation on action of the drug, and the presentation was positively evaluated by the teacher. The presentation should relate to the aspect of the pharmacokinetics and pharmacodynamics of the drug, also indicated with reference to use in pregnancy, elderly people and children. Students actively participated in seminars which confirms the assessment of student activity in the daily evaluations of the subject. Positive passing through partial and final test is required. |
| **Grade:** | **Criteria** course ending without examination |
| **Name and address of module/course teaching unit, contact: telephone and e-mail address** KATEDRA I ZAKŁAD PATOLOGII JAMY USTNEJ Tel. :71 784 03 81, e-mail: agnieszka.fiskiewicz@umed.wroc.pl**Coordinator / Person responsible for module/course, contact: telephone and e-mail address**Prof. dr hab. Małgorzata Radwan-Oczko **List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes**.PhD Irena Duś-Ilnicka

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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 2019-02-07 | Dr Irena Duś-Ilnicka |
| **Signature of Head of teaching unit** |
| Prof. dr hab. Małgorzata Radwan-Oczko  |

**Signature of Faculty Dean**  |
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