



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

| Module title: Clinical Pharmacolog | |
|---|--|
| Module type | Obligatory/Facultative (wybrać) |
| Faculty PMU | Faculty of Medicine and Dentistry |
| Major | Medicine |
| Level of study | long-cycle (S2J) |
| Mode of study | full-time studies |
| Year of studies, semester | Year 4, semester VII |
| ECTS credits (incl. semester breakdown) | 2 |
| Type/s of training | e-learning (5h) /seminars (15h)/ practicals (10) |
| 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 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 | Prof. dr hab. n. med. Marek Drożdżik |
| Tutor responsible for the module | Prof. dr hab. Monika Białecka, tel. 91 466 1589, e-mail: monika-bialecka@post.pl |
| Address | Department of Pharmacology Al. Powstańców Wlkp. 72 70-111 Szczecin |
| Department's/ Clinic's/ Unit's website | www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-farmakologii-doswiadczalnej-i-klinicznej |
| Language | English |

* replace ☐ into ☒ where applicable

Detailed information

| | | |
|--------------------------------------|-------------|--|
| Module objectives | | 1. Basic pharmacokinetic processes, genetic determinants of drug action, monitoring therapy, severe adverse drug reactions. 2. Discussion of pharmacotherapy in bacterial, fungal and viral infections. 3. Principles of using painkillers and local anesthesia. 4. Principles of management of patients with impaired hemostasis. 4. Emergency states pharmacotherapy. |
| Prerequisite /essential requirements | Knowledge | Principles of biochemistry, physiology, histology, genetics |
| | Skills | Basic mathematical calculations, the ability to use the acquired knowledge |
| | Competences | Teamwork skills |

Description of the learning outcomes for the subject /module

| 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 | understands relationship between morphological anomalies and function of organs and systems, clinical symptoms and capacity of diagnostics and treatment | K_E.W01 | S, K |
| W02 | knows neurological effect of chronic administration of drugs | K_E.W06 | K, SP |
| W03 | knows principles of immunity to contagious diseases in children and adults | K_E.W09 | K |
| W04 | knows rules of pregnant woman management with regard to dental care | K_E.W12 | K, SP |
| W05 | knows causes and mechanisms of circulatory and respiratory arrest and rules of resuscitation and post-resuscitation proceeding | K_E.W17 | K, SP |
| W06 | knows life-threatening states | K_E.W18 | K, SP |
| U01 | plans diagnostics procedure and therapeutic management in case of most common diseases in adults | K_E.U03 | K, SP |
| U02 | identifies life-threatening risk | K_E.U08 | S, K |
| U03 | prescribes drugs, considering drug-drug interactions and adverse reactions | K_F.U12 | S |
| K01 | shows habit of self-education and lifelong education | K_K01 | O, PS |
| K02 | can co-operate with team members and care about occupational safety | K_K03 | O, PS |
| K03 | understands sense of responsibility for entrusted property | K_K07 | O, PS |

| 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... |
| W01 | K_E.W01 | | X | X | | | X | |
| W02 | K_E.W06 | | X | X | | | X | |
| W03 | K_E.W09 | | X | | | | | |
| W04 | K_E.W12 | | X | X | | | X | |
| W05 | K_E.W17 | | X | | | | | |
| W06 | K_E.W18 | | X | | | | | |
| U01 | K_C.U03 | | X | X | | | | |
| U02 | K_C.U08 | | X | X | | | | |
| K01 | K_K01 | | X | X | | | | |
| K02 | K_K03 | | | X | | | | |
| K03 | K_K07 | | | X | | | | |

| Table presenting TEACHING PROGRAMME | | | |
|-------------------------------------|--|--------------|-----------------------------------|
| No. of a teaching programme | Teaching programme | No. of hours | References to learning outcomes |
| Winter semester | | | |
| Seminars | | | |
| TK01 | Adverse drug reactions | 2 | W01, W02, U03 |
| TK02 | Drug interactions | 2 | W01, W02, W04, W05, K01, U03 |
| TK03 | Antimicrobial drugs in clinical practice | 2 | W01, W02, W03, W04, U01, K01 |
| TK04 | Antimicrobial drugs in dentistry | 2 | W01, W03, K01, |
| TK05 | Drugs for asthma and COPD | 2 | W01, W02, K01, U02 |
| TK05 | Drugs affecting hemostasis, clinical aspects | 2 | W01, W04, K01 |
| TK07 | Drugs in emergency states | 3 | W01, W02, W04, W05, U01, U02, K01 |
| Practical classes | | | |
| TK01 | Opioid analgesics in dentistry | 3 | W01, W02, U01, K01, K02, K03 |
| TK02 | Non-opioid analgesics in dentistry | 3 | W01, W02, K01, K02, K03, U03 |
| TK03 | Local anesthetics. General anesthesia in dentistry | 3 | W01, W02, U01, U02, K01, K02 |
| TK04 | Pharmacotherapy in pregnancy | 1 | W01, W02, W04, K01, K02, K03 |
| E-learning | | | |
| TK01 | Clinical pharmacology – introduction | 1 | W01, W02, W04 |
| TK02 | Pharmacokinetics | 2 | W01, W02, W04 |
| TK03 | Therapeutic drug monitoring. Pharmacogenetics | 2 | W01, W02 |

| Booklist |
|---|
| Obligatory |
| Pharmacology, 7th Edition, Lippincott Illustrated Reviews Series by Richard A. Harvey, Michelle A Clark, Richard Finkel, Jose A. Rey, Karen Whalen |
| Pharmacology and Therapeutics for Dentistry 7th edition By Frank J. Dowd & Bart Johnson & Angelo Mariotti, Elsevier |
| Supplementary |
| Pharmacology, 5th Edition, Elsevier by George M. Brenner, Craig Stevens |

| 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 | 25 |
| Time spent on preparation to seminars/ practical classess | 15 |
| Time spent on reading recommended literature | 15 |
| Time spent on writing report/making project | - |
| Time spent on preparing to colloquium/ entry test | 5 |
| Time spent on preparing to exam | - |
| Other | 5 |
| Student's workload in total | 65 |
| ECTS credits for the subject (in total) | 2 |
| 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...