

Course descriptions

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COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-587/19	Course title: Adolescent Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: pediatrics 1	
Course requirements: 90% participation in practical exercises; Examination of adolescents and elaboration of a medical record model at the last practical exercise with active discussion about patient and teacher examination Scale of assessment (preliminary/final): monitoring student activity	
Learning outcomes: The student deepens knowledge about physiological peculiarities of adolescence and pathological states during adolescence and adolescence. They will get acquainted with the evaluation of adolescents' working ability in the choice of study and profession.	
Class syllabus: Profesiography The most common diseases of the endocrine system in adolescents Psychosocial problems in chronically ill adolescents Gynecological problems in adolescents Vaccination in adolescents The most common psychosomatic diseases and neuropsychic problems of adolescent age. GIT functional diseases in adolescents Adolescent tuberculosis Mental disorders in adolescents Gynecological problems in adolescence	
Recommended literature: Jakušová, L., Buchanec,J., Bánovčin, P. a kol. Dorastové lekárstvo. Martin: Osveta, 2014, 607 s. ISBN 978-80-8063-419-3	
Languages necessary to complete the course: English language	
Notes:	

Past grade distribution						
Total number of evaluated students: 22						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. MUDr. Ľubica Jakušová, PhD.						
Last change: 29.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KAIM/J-S-VL-585/19	Course title: Algesiology and Paliative Medicine
Educational activities: Type of activities: practicals Number of hours: per week: ,5 per level/semester: 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Attendance of 100 % practice workouts and successful completion of final test.	
Learning outcomes: With completion of the subject, student will obtain knowledge: anatomy, physiology and pathophysiology of pain, clinical forms of pain, characteristic of analgetics and their clinical use	
Class syllabus: History of pain management, definition of pain, anatomy, physiology, pathophysiology of pain, clinical types of pain, diagnostics of pain syndromes, analgetics, clinical pain management	
Recommended literature: Dobriková-Porubčanová P. a kol.: Nevyliečiteľne chorí v súčasnosti. Kapitola 10: Ošetrovateľské aspekty v paliatívnej starostlivosti, Spolok svätého Vojtecha, Trnava 2005, s.164-183. Fabuš S., Kulichová M.: Paliatívna a hospicová starostlivosť. Medicínska etika a biotika, Vol 5, 1998, s. 9-11. Ed. Kulichová M.: Algeziológia, EDIS, Žilina, 2005, ISBN 80-8070-445-7, s.299. Kulichová M.: Etické princípy a základné zásady liečby chronickej bolesti. Mozaika hospicovej starostlivosti, Hospice o.z., Martin 2007, ISBN 978-80-969736-2-0 Kulichová M.: Bolest' – definícia, rozdelenie, patofyziológia, klasifikácia a diagnostika. Lek.Obz., 57, 2008, č.1, s. 7 -11. Kulichová M.: Bolest' u onkologického pacienta – diferenciálno-diagnostické spracovanie, ONKOLÓGIA, 5/2007, r.2. s. 287-291. Kulichová M.: Bolest'. In: Dzúrik R., Trnovec T.: Štandardné terapeutické postupy. Osveta Martin, 2001, 2.vydanie, ISBN 80-8063-088-7, s. 760-770. Rokyta R., Kršiak M., Kozák J.: Bolest, Tigis, Praha, 2006, ISBN: 80-235 00000-0-0, s.684. Slama O., Kabelka L., Vorlíček J.: Paliatívna medicína pro praxi. Praha, Galen, 2007, 1.vydanie, ISBN 978-80-7262-505-5, 362s	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 157						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. MUDr. Milan Minarik, PhD., prof. MUDr. Beata Drobná Sáníová, PhD., MUDr. Denisa Osinová, PhD.						
Last change: 08.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-501/17	Course title: Anatomy (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 7	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% participation in practicals, at least 60% success rate on written tests Scale of assessment (preliminary/final): 10/90	
Learning outcomes: Graduate acquires detailed knowledge of the systematic anatomy of the locomotor system - general and special osteology, arthrology and myology and vessels and nerves of the upper and lower limb. Knowledge will be the basis for the study of topographical anatomy and also for the subsequent study of physiology, pathological anatomy and clinical disciplines.	
Class syllabus: Lectures : General osteology, arthrology and myology. Joints of the vertebral column and thorax. Joints of the skull. Spaces of the skull. Joints of the upper limb. Joints of the lower limb. Brachial plexus. Lumbar and sacral plexus. Vessels of the upper and lower limb. Practicals: Vertebral column. Skeleton of the thorax. Bones of the skull. Bones and muscles of the upper and lower limb.	
Recommended literature: Paulsen, F. et al. Sobotta Anatomy Textbook, Elsevier Science, 2018. 840 s. ISBN 9780702067600. Drake, R. et al. Gray's Anatomy for Students, 4th Edition. Elsevier Science, 2019, 1180 pp. ISBN 9780323393041 Paulsen, F. et al. Sobotta Atlas of Human Anatomy, (3 Volume Set), Urban and Fische, 2013. 1180 s. ISBN 9780702052507.	
Languages necessary to complete the course: english	
Notes:	

Past grade distribution						
Total number of evaluated students: 981						
A	ABS0	B	C	D	E	FX
4,08	0,1	13,86	22,53	25,38	26,1	7,95
Lecturers: doc. MUDr. Yveta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MUDr. Lenka Kunertová, doc. MUDr. Desanka Výbohová, PhD., MVDr. Dagmar Kalenská, PhD., MVDr. Sandra Hurta Csizmár, PhD., RNDr. Alena Mazuráková, PhD.						
Last change: 14.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-502/15	Course title: Anatomy (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 4 per level/semester: 70 / 56 Form of the course: on-site learning	
Number of credits: 10	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 100% participation in practicals, 100% participation in dissection, at least 60% success rate on written tests Study result evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, Fx: less than 60 % Scale of assessment (preliminary/final): 10/90	
Learning outcomes: The graduate of anatomy acquires detailed knowledge of systematic anatomy of selected organ systems, including peripheral vessels and peripheral nerves. Knowledge will be the basis for the study of topographical anatomy and also for the subsequent study of physiology, pathological anatomy and clinical disciplines.	
Class syllabus: Lectures: Topographical anatomy of the limbs. Cardiovascular system. Respiratory system. Alimentary system. Urogenital system. Practicals: Topographical anatomy of the limbs - dissection of the upper and lower limbs. Practical study of the organs of cardiovascular system, respiratory system, alimentary system and urogenital system at the cadaveric specimens and models.	
Recommended literature: Paulsen, F. et al. Sobotta Anatomy Textbook, Elsevier Science, 2018. 840 s. ISBN 9780702067600. Paulsen, F. et al. Sobotta Atlas of Human Anatomy, (3 Volume Set), Urban and Fische, 2013. 1180 s. ISBN 9780702052507. Drake, R. et al. Gray's Anatomy for Students, 4th Edition. Elsevier Science, 2019, 1180 pp. ISBN 9780323393041	
Languages necessary to complete the course: english	
Notes:	

Past grade distribution						
Total number of evaluated students: 1216						
A	ABS0	B	C	D	E	FX
2,38	0,0	16,78	33,8	25,41	13,16	8,47
Lecturers: doc. MUDr. Yveta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MUDr. Lenka Kunertová, doc. MUDr. Desanka Výbohová, PhD., MVDr. Dagmar Kalenská, PhD., MVDr. Sandra Hurta Csizmár, PhD., RNDr. Alena Mazuráková, PhD.						
Last change: 13.09.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-503/16	Course title: Anatomy (3)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 2 per level/semester: 56 / 28 Form of the course: on-site learning	
Number of credits: 8	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-501/17 - Anatomy (1) and JLF.ÚA/J-S-VL-502/15 - Anatomy (2)	
Course requirements: 1. 100% attendance at the practicals and dissections 2. successful completion of the written and oral credit tests – the student must achieve a minimum = 60% in each written test and E in each oral test (examination) to pass - opening dissection written credit test - written credit test of the nervous system The student has 1 regular term/date and 2 retake terms/dates for the written and oral test during 1 academic year. If a student cannot take the test on a regular date due to some exceptional conditions (disease, foreign police appointment...) he/she must bring a medical certification or other written confirmation. Otherwise the test will be evaluated with Fx = 0%. 3. oral dissection examination at the end of the dissection week on Friday Successful completion of the oral examination means that the student has been graded A, B, C, D, or E. Grade Fx means that the student has failed and must repeat the oral examination. 4. Successful passing of the ANATOMY FINAL EXAM Final Exam: • the written part: at least 60% success rate for the written exam • practical examination • oral examination Study resul evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, Fx: less than 60 % Scale of assessment (preliminary/final): 10/90	
Learning outcomes: The graduate of anatomy should master the anatomy of the human body in the extend necessary for pregradual studies. The graduate should understand principles of human body construction, its parts and organs up to such details, that the knowledge gathered is permanent and becomes a base for understanding of physiological and pathological processes and changes and later is the base for studies of clinical disciplines.	
Class syllabus:	

Lectures: Cranial nerves. Vessels of the head and neck. Systematic anatomy of the central nervous system, autonomic nervous system.
Practicals: Topographical anatomy of the head, neck and trunk - topographic-anatomical dissection of head, neck and trunk. Practical study of the central nervous system at the cadaveric specimens. Visual apparatus. External and middle ear.

Recommended literature:

povinná literatúra:

x Waschke, J., Bockers, T. et Paulsen, F. Sobotta Anatomy textbook. Elsevier Science, 2018. 840 pages. ISBN 978-07-0206-760-0

x Paulsen, F. et Waschke, J. Sobotta Atlas of Anatomy (3 Volume Set). Urban und Fische, 2013. 1180 s. ISBN 978-07-0205-250-7

x Paulsen, F. et Waschke, J. Sobotta Atlas of Anatomy (Package). Musculoskeletal system; Internal Organs; Head, Neck and Neuroanatomy; Muscle Tables. Elsevier Science, 2018. 1376 s. ISBN 978-07-0205-268-2

x Drake, R. L. et al. Gray's Anatomy for Students. Elsevier Science, 2023, 1168 pp. ISBN 978-03-2393-423-7

x Výbohová, D. Axial Skeleton Study Guide. Martin, 2017; 106 pages; ISBN 978-80-8187-026-2. MEFANET; Portal of Jessenius Faculty of Medicine Comenius University, Available from WWW: <http://portal.jfmed.uniba.sk/articles.php?aid=362>

x Hešková, G. et al. Bones, Joints And Muscles Of The Upper and Lower Limbs Study Guide. Martin, 2018; Pages 194; ISBN: 978-80-8187-049-1. MEFANET; Portal of Jessenius Faculty of Medicine Comenius University, Available from WWW: <https://portal.jfmed.uniba.sk/articles.php?aid=389>.

x Výbohová D. et al. Heart And Respiratory System - Study Guide. Martin, 2019; 125 pages, ISBN 978-80-8187-065-1. MEFANET; Portal of Jessenius Faculty of Medicine Comenius University, Available from WWW: <https://portal.jfmed.uniba.sk/articles.php?aid=400>

x Výbohová D. et al. Anatomy of the Urogenital System. Martin, 2021. 145 pages; ISBN 978-8-8187-105-4. MEFANET; Portal of Jessenius Faculty of Medicine Comenius University, Available from WWW: <https://portal.jfmed.uniba.sk/articles.php?aid=448>

x Hešková et al. Anatomy of the Alimentary System. Martin, 2022. 200 pages, ISBN 978-80-8187-121-4. MEFANET; Portal of Jessenius Faculty of Medicine Comenius University, Available from WWW: <https://portal.jfmed.uniba.sk/clanky.php?aid=463>

Acland's Video Atlas of Human Anatomy. Wolters Kluwer Health, 2023. Available from WWW: <https://aclandanatomy.com/>

odporúčaná literatúra:

Acland's Video Atlas of Human Anatomy. Wolters Kluwer Health, 2023. Available from WWW: <https://aclandanatomy.com/>

Loukas, M. et al. Gray's Clinical Photographic Dissector of the Human Body. Elsevier, 2018. 464 pages. ISBN 978-03-2354-417-7.

Gilroy, A. M. et al. Atlas of Anatomy. Thieme Medical Publishers 2020. 778 s. ISBN 978-16-8420-203-4.

Netter, F.H. Netter Atlas of Human Anatomy: A Systems Approach. Elsevier, 2022. 712 s. ISBN 978-03-2376-028-7

Crossman, A.R. and Nearly, D. Neuroanatomy, an illustrated colour text. Churchill Livingstone Elsevier, 2019. 185 pp. ISBN 978-07-0203-086-4.

Languages necessary to complete the course:

english

Notes:

Past grade distribution						
Total number of evaluated students: 1000						
A	ABS0	B	C	D	E	FX
6,2	0,0	11,4	22,3	19,9	23,8	16,4
Lecturers: doc. MUDr. Yveta Mellová, CSc., MUDr. Gabriela Hešková, PhD., doc. MUDr. Desanka Výbohová, PhD., MVDr. Sandra Hurta Csizmár, PhD., MVDr. Dagmar Kalenská, PhD., MUDr. Lenka Kunertová, RNDr. Alena Mazuráková, PhD.						
Last change: 15.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KAIM/J-S-VL-558/19	Course title: Anesthesiology and Intensive Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.KAIM/J-S-VL-606/19 - Emergency Medicine and JLF.ÚFa/J-S-VL-530/21 - Pharmacology (2)	
Course requirements: Attendance of 100 % practice workouts and successful completion of final examination.	
Learning outcomes: With completion of the subject students will obtain following theoretical knowledge and practical experience: history of anesthesia, the role of anesthesia in surgical and diagnostic disciplines, types of anesthesia, practical application of general and regional anesthesia, anesthesia induction and termination, side effects of anesthetic agents, management of critically ill patients, diagnostic procedures, monitoring in intensive care, mechanical ventilation.	
Class syllabus: History of anesthesia, definitions, characteristics, types of anesthesia, pain, clinical pharmacology, management of airways, i.v. access, intravenous anesthetics, inhalational anesthetics, analgetics, muscle relaxants, anesthesia equipments, general anesthesia, regional anesthesia, specific problems of anesthesia in surgical disciplines, one day surgery. History of intensive care and mechanical ventilation, admission of patients to intensive care unit, single and multiple organ failure, monitoring in intensive care, mechanical ventilation, extracorporeal life support systems, palliative medicine, brain death diagnostics.	
Recommended literature: Stoelting RK, Miller RD Basics of anesthesia, fifth edition, Churchill Livingstone Elsevier, Philadelphia, 2007, 697 pp Barash, P.G. et al. Clinical anesthesia. 7th ed., Philadelphia: Lippincott Williams & Wilkins, 2013. Allmann, K.G. Oxford Handbook of Anaesthesia. Oxford: Oxford University Press, 2011. 1309 s. ISBN 978-0-19-958404-8 Marini JJ, Wheeler AP Critical Care Medicine. The Essentials. Lippincott Williams & Wilkins; 4 edition (1 Nov 2009) Bersten AD, Handy JM Oh's Intensive Care Manual, Elsevier; 8 edition, 2018	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 437						
A	ABS0	B	C	D	E	FX
46,91	0,0	30,89	12,81	6,41	2,52	0,46
Lecturers: doc. MUDr. Milan Minarik, PhD., prof. MUDr. Beata Drobná Sániová, PhD., MUDr. Denisa Osinová, PhD.						
Last change: 07.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-507-Z/15	Course title: Basic of Medical Terminology (1)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 2 written tests, minimum percentage to pass each test is 60% Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 50%/50%	
Learning outcomes: The main teaching output is to enable the graduates to get competence in exact and correct use of Latin medical terminology. Graduates in nursing should meet the following requirements: a) to master Latin pronunciation and spelling b) to master selected Latin morphological structures fragment in noun and verb terms/expressions c) to master basic Lexis especially in anatomical terminology, but also in clinical subjects and pharmacology d) to master basic syntactical structure of medical terms (complex terms, close/loose attributives, word-order) e) to master word-building (derivation in one-word terms) affixes different meanings of prefixes/suffixes) and relations of word-building elements (synonym, antonym, homonym).	
Class syllabus: 1. Brief Survey into the History of Medical Terminology. Introduction to Latin Grammar – Pronunciation of Latin Sounds. Word, Noun and Verb Categories. Noun Declension. Structure of Terms. 2. 1st A-Declension, Latin and Greek Nouns, 1st Declension Adjectives. 3. 2nd O-Declension: Latin Nouns – Masculines, Neuters. 4. 2nd O-Declension: Greek Nouns – Masculines, Neuters; 2nd Declension Adjectives. 5. 3rd Latin Consonant-Declension – Masculine, Feminine Nouns. 6. 3rd Latin Consonant-Declension – Neuter Nouns; Nouns of the 3rd Consonant-Declension + Adjectives of the 1st and the 2nd Declensions. 7. TEST I 8. 3rd Latin Vowel-Declension – Masculine and Feminine Nouns. 9. 3rd Latin Vowel-Declension – Neuter Nouns, Special Declension; Nouns of the 3rd Vowel-Declension + Adjectives of the 1st and the 2nd Declensions. 10. 4th Declension – Masculine, Neuter Nouns; Nouns of the 4th Declension + Adjectives of the 1st and the 2nd Declensions.	

11. 5th Declension – Feminine Nouns; Nouns of the 5th Declension + Adjectives of the 1st and the 2nd Declensions. 12. 3rd Declension – Greek Nouns. Consonant-Declension – Masculines, Feminines, Neuters. 13. 3rd Declension – Greek Nouns. Vowel-Declension. Terms formed by the suffixes -itis, -oma, -osis. 14. TEST II						
Recommended literature: BUJALKOVÁ, M., JUREČKOVÁ, A.: Greco-Latin Medical Terminology. Textbook for Students of Medicine. 2nd revised edition. Martin: Vydavateľstvo Osveta 2020. 190 s. ISBN 978-80-8063-490-2						
Languages necessary to complete the course: English language, Latin language						
Notes:						
Past grade distribution Total number of evaluated students: 1219						
A	ABS0	B	C	D	E	FX
20,18	0,57	32,65	21,74	15,83	8,7	0,33
Lecturers: Mgr. Miroslav Čovan, PhD., PhDr. Božena Džuganová, PhD., Mgr. Samuel Javornický, PhD., Mgr. Desana Kiselová, Mgr. Nora Malinovská, PhD.						
Last change: 17.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-507-L/15	Course title: Basic of Medical Terminology (2)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-507-Z/15 - Basic of Medical Terminology (1)	
Course requirements: 2 written credit tests, minimum percentage to pass each is 60% Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 40% for credit tests / 60% for written exam	
Learning outcomes: The main teaching output is to enable the graduates to get competence in exact and correct use of Latin medical terminology. Graduates in nursing should meet the following requirements: a) to master Latin pronunciation and spelling b) to master selected Latin morphological structures fragment in noun and verb terms/expressions c) to master basic Lexis especially in anatomical terminology, but also in clinical subjects and pharmacology d) to master basic syntactical structure of medical terms (complex terms, close/loose attributives, word-order) e) to master word-building (derivation in one-word terms) affixes different meanings of prefixes/suffixes) and relations of word-building elements (synonym, antonym, homonym).	
Class syllabus: 1. 3rd Declension Adjectives – One Termination Adjectives, Two Termination Adjectives, Three Termination Adjectives. 2. 3rd Declension Adjectives – Declension; Greek Adjectives of 3rd Declension 3. Comparison of Adjectives – Regular, Irregular, Incomplete Comparison. 4. Comparison of Adjectives – Declension of Comparative and Superlative. 5. Numerals – Cardinal, Ordinal, Multiple Numerals. Declension of Numerals. 6. Medical Prescription – Verb. Decimal Point Metric Prefixes. 7. TEST III 8. Medical Prescription – Grammatical Structure. Extemporaneous MP, Non-Extemporaneous MP (for Brand-Name Drugs). Abbreviations Used in MP. 9. Prefixes – Prefixes Related to Direction, Place and Time. Prefixes Denoting Quality and Negation. 10. Suffixes – Noun Suffixes, Adjective Suffixes. 11. Compound Words – Most Common Roots: Nouns Denoting State/Process, Disease, Branch of Medicine. Nouns Denoting Surgical or Diagnostic Procedure. Nouns Denoting	

Human Body, its Parts and Organs. 12. Compound Words – Most Common Roots: Nouns Denoting Body Fluids, Secretions, Substances. Adjectives/Numerals Denoting State, Quality, Quantity, Colour. 13. Repetition in Exercises. 14. TEST IV						
Recommended literature: BUJALKOVÁ, M., JUREČKOVÁ, A.: Greco-Latin Medical Terminology. Textbook for Students of Medicine. 2nd revised edition. Martin: Vydavateľstvo Osveta 2020. 190 s. ISBN 978-80-8063-490-2						
Languages necessary to complete the course: English language, Latin language						
Notes:						
Past grade distribution Total number of evaluated students: 1171						
A	ABS0	B	C	D	E	FX
25,79	0,17	36,64	21,26	11,61	4,18	0,34
Lecturers: Mgr. Miroslav Čovan, PhD., PhDr. Božena Džuganová, PhD., Mgr. Samuel Javornický, PhD., Mgr. Desana Kiselová, Mgr. Nora Malinovská, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.CPMV/J-S-VL-633/19	Course title: Basics in Medical Education
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 1 per level/semester: 7 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: not applicable	
Course requirements: 100% attendance Assessment of students takes the form of research of original scientific papers concerning innovations and trends in medical education. Rating: A: 100-91%, B: 90-82%, C: 81-73%, D: 73-68%, E: 67-60%, FX 59% and less Scale of assessment (preliminary/final): final evaluation	
Learning outcomes: Graduates understand the latest principles of medical education, understand its goals, outcomes, know the role of teachers in medical education, know different forms of curriculum formation, new active forms of education at medical faculties in theoretical, preclinical and clinical disciplines. It is anticipated that in the future graduates of the subject will consider the career of university teachers at the Faculty of Medicine.	
Class syllabus: Specifics of education in adulthood, the principle of university didactics. Goals and outcomes of undergraduate medical education. Creation of modern medical education curriculum Teacher in medical education Traditional and active forms of medical education (lectures, teaching in small groups, team-based learning, project-based learning, problem-based learning, case-based learning) Technology-based education (simulation, e-learning, virtual patients). Peer to-peer-teaching - mutual learning in practice. Assessment methods in medical education, objective evaluation of OSCE clinical skills Specific bedside teaching, clinical reasoning in teaching, the role of reflection in learning Research in medical education	
Recommended literature:	

Hanáček, Mokřý a spol. Trendy v medicínském vzdelávání a hodnotenie jeho výsledkov, Osveta, 2018, 255 s.
 Dent JA, Harden RM. A Practical Guide for Medical Teachers. 5th ed. Churchill Livingstone Elsevier, 2013. 424 s.
 Harden RM, Laidlaw JM. Essential Skills for a medical teacher 2e. An introduction to teaching and learning medicine. Churchill Livingstone Elsevier. 2016. 304 s.
 AMEE and BEME Educational Guides

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 0

A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Jana Plevková, PhD.

Last change: 29.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.CPMV/J-S-VL-630/19	Course title: Basics of First Aid
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / ,5 per level/semester: 14 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Not applicable	
Course requirements: 100% attendance Assessment of students takes the form of a practical CPR exam using a high-fidelity simulator and computer software, which evaluates its percentage success and a short oral examination of the theory. Rating: A: 100-91%, B: 90-82%, C: 81-73%, D: 73-68%, E: 67-60%, FX 59% and less Scale of assessment (preliminary/final): final evaluation	
Learning outcomes: The student will understand the basic principles of first aid in traumatic and non-traumatic conditions. He/she can evaluate vital signs of a patient, controls ABCDE access to the first aid. The graduate is able to provide the patient with immediate CPR if the affected person is not breathing and is unconscious according to the latest recommendations of professional organizations.	
Class syllabus: Guiding principles for first aid. Chain of life. Unconsciousness. Basic life-saving procedures (head tilting, first aid when choking on a foreign body, stabilized position). Systematic approach to acute-ill patient ABCDE principle. Stopping breathing and blood circulation. BLS - Basic Life Support - resuscitation I., Use of AED (Automatic External Defibrillator) First aid for traumatic life-threatening conditions (bleeding, fractures, amputations, burns, bites, bites, melting) First aid for non-traumatic life-threatening conditions (cardiac, pulmonary, intoxication, anaphylaxis, seizures). Sudden childbirth Examination with CPR evaluation.	
Recommended literature:	
Languages necessary to complete the course: English Language	
Notes:	

Past grade distribution						
Total number of evaluated students: 318						
A	ABS0	B	C	D	E	FX
69,5	0,0	19,5	9,12	1,89	0,0	0,0
Lecturers: prof. MUDr. Jana Plevková, PhD.						
Last change: 29.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚO/J-S-VL-634/22	Course title: Basics of Nursing Techniques
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: The evaluation of the subject takes place in the form of a written test. Student must achieve at least 60 %. Overall evaluation: A: 100 – 91 %, B: 90 – 81 %, C: 80 – 73 %, D: 72 – 66 %, E: 65 – 60 %, FX # 60 %. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: By completing the course the student will demonstrate basic knowledge related to clinically correct and safe practice with respect to the principles of evidence - based practice (EBP). Can describe the basic principles of providing nursing care and standard procedures of selected nursing services and techniques. After completion of this subject while performing nursing procedures student will be able to: <ul style="list-style-type: none"> - argue for and justify the method / technique of the procedure chosen, - prepare equipment and supplies necessary to carry out the procedure, - assess the patient and provide instructions and support the patient prior to the procedure, prepare the patient for the procedure from the physical perspective, - carry out the procedure independently while following clinical standards and guidelines, respecting the ethical principles and principles of asepsis including, - communicate with the patient during the procedure, provide patient education / instruction after the procedure, - record and document the procedure and values assessed, - process all the equipment and items used. 	
Class syllabus: Dressing technique – types of dressing material, principles and principles of dressing technique, basic dressing techniques, training of selected types of bandages (bandage of the hand, forearm, elbow, foot, high compression bandage of the lower limb). Collection of biological material – blood collection – types of examinations, principles and principles of collection, prevention of puncture injuries with a used needle, training in venous blood collection (open and closed), capillary blood collection (ABR and blood glucose testing).	

Parenteral drug administration – general principles of drug preparation and application, preparation of drugs from ampoule and vial, preparation and training application of intradermal, subcutaneous (LMWH, heparin, insulins), intramuscular and intravenous injection.

Gastric tube insertion and enteral nutrition - general principles of insertion and removal gastric tube and administration of enteral nutrition and drugs, training in the introduction and removal of gastric tube.

Vital functions – training in measuring and monitoring vital functions (blood pressure, pulse, breath, body temperature, measuring oxygen saturation with a pulse oximeter).

Bladder catheterization – Indications, types of urinary catheters, general principles catheterization of men and women, urine sampling, physical examination of urine, infection prevention

urinary tract, practice of direct catheter urine sampling in women, introduction and removal of permanent urinary catheter in women.

Nursing techniques and procedures in surgery – principles of surgical asepsis, preparation of a sterile table, care of aseptic and septic wounds, types of dressing material, general principles of treatment and wound dressing; training in handling sterile aids, surgical instruments and packaging materials – dressing table, dressing of aseptic and septic wounds, treatment of the drain area, training in donning and undressing gloves (non-sterile, sterile).

Recommended literature:

Dingová, M., Lepiešová, M., Rosenberg, A. et al.: Basics of Nursing. Textbook for Medical and Nursing Students. Martin: Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, 2011.

Lepiešová, M., Dingová, M., Nemcová, J., Ovšonková, A., Miertová, M., Tabaková, M., Tomagová, M.: Basics of nursing presentations. Martin: JLFUK – portal MEFANET, 2012, 419 p. [online] ISBN 1337-7396ISSN 1337-7396. Available at: <http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtIs000257495.pdf>

Kozier, B., Berman, A., Erb, G., Snyder, S. J.: Fundamentals of Nursing: Concepts, Process and Practice. 7th ed. Pearson Prentice Hall, 2004.

Perry, A. G., Potter, P. A., Ostendorf W.: Clinical Nursing Skills & Techniques. 8th ed. St. Louis, Missouri: Mosby/Elsevier, 2013.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 207

A	ABS0	B	C	D	E	FX
8,21	0,48	40,1	33,33	13,04	4,83	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Martina Lepiešová, PhD., Mgr. Michaela Miertová, PhD., PhDr. Jana Nemcová, PhD., Mgr. Anna Ovšonková, PhD., doc. Mgr. Martina Tomagová, PhD.

Last change: 23.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚPF/J-S-VL-557/18		Course title: Breathing Disorders During Sleep				
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 8.						
Educational level: I.II.						
Prerequisites:						
Course requirements:						
Learning outcomes: Basic information regarding pathomechanisms of the origin of the most frequent sleep disorders related to breathing dysregulation. Prevalence of sleep-related breathing disorders is relatively very high in population, symptomatology is very poor and complications shortening the life expectancy are very frequent. There are new diagnostic and therapeutic procedures that can significantly increase the quality of life from clinical view and from mental and social points, as well.						
Class syllabus: Lectures and seminars: epidemiology of sleep-related breathing disorders, categories of sleep-related breathing disorders, pathomechanisms of snoring, increased upper airway resistance, obstructive and central apnoeic events and Pickwickian syndrome, cardiovascular, haematological, neurological, mental and endocrine complications of sleep-related breathing disorders, social consequences, symptomatology, sleep-related breathing disorders in patients with primary respiratory diseases, sudden infant death syndrome, management of sleep-related breathing disorders. Laboratory training: sleep laboratory service: polysomnography – registration of respiratory and cardiovascular parameters, oximetry, sleep architecture and muscle tone during sleep period and their evaluation.						
Recommended literature: hand-outs						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 56						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Jana Plevková, PhD., MUDr. Peter Ďurdík, PhD., doc. MUDr. Robert Vyšehradský, PhD.
Last change: 21.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚKB/J-S-VL-556/18	Course title: Clinical Biochemistry and Laboratory Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: J-S-VL-509 Medical Chemistry 2, J-S-VL-511 Medical Biochemistry 2, J-S-VL-538 Internal Medicine Propedeutics 2	
Course requirements: At the end of semester, after attendance of lectures (optional) and practicals (90 % compulsory), a written test is given - 20 questions (20 points in total). Grade A is given when student obtains at least 18 points, grade B 17 - 16 points, grade C 15 - 14 points, grade D 13 points and grade E 12 points. Credit will not be given to a student who achieves less than 12 points. Scale of assessment (preliminary/final): Credit test	
Learning outcomes: By completing the course, student acquires theoretical and practical knowledge about the routine clinical-biochemical laboratory practice and principles of used methods, as well as about the correct indication of biochemical tests and interpretation of the results in various clinical conditions.	
Class syllabus: Syllabus/Indicative Content: The role of clinical-biochemistry in medicine, the rules of biological specimen collection and patient preparation, indications of clinical-biochemical tests, sources of errors in clinical-biochemical analyses, quality control, reference values, the principles of evaluation and interpretation of biochemical findings. The assessment of acid-base balance – basic and mixed disorders. The disturbances in metabolism of water and minerals – hyper- a hypo- natremia, kalemia, chloremia. Metabolism of lipoproteins, clinical-biochemical tests for examination of lipid metabolism - hyperlipidaemias, dyslipidaemias, risk factors and prevention of atherogenesis. Tumor markers – clasification according to their biological functions, use of tumor markers in screening, diagnostics and therapy of oncologic diseases. The use of molecular-biological diagnostic tests in clinical practice – basic pannels of single nucleotide polymorphisms examinations in thrombophylas, lipid metabolism, pharmacogenetics, hemochromatosis, multiple sclerosis. The analysis of cerebrospinal fluid and urine – chemical, microscopical. Wastes of minerals and metabolites, examination of kidney functions. Electrophoretic methods – serum, cerebrospinal fluid, urine.	

Recommended literature: Gaw & Murphy & Srivastava & Cowan & O'Reilly. Clinical Biochemistry, 5th Edition, An Illustrated Colour Text Imprint: Churchill Livingstone, 2013, 196 pages, ISBN 9780702051791						
Languages necessary to complete the course: English language						
Notes: teaching of this optional subject is performed in 4th year winter semester						
Past grade distribution Total number of evaluated students: 483						
A	ABS0	B	C	D	E	FX
80,75	0,0	12,84	4,14	1,45	0,83	0,0
Lecturers: prof. MUDr. Dušan Dobrota, CSc., doc. MUDr. Daniel Čierny, PhD.						
Last change: 24.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-632/19	Course title: Clinical Gastroenterology
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Internal Medicine 4	
Course requirements: Minimal 80 % of practical exercises and rating of activity and of interest about gastroenterological diagnostic procedures and skilling and finesse. Rating: A 90-100%, B 80- 90 %, C 70-80%, D 60 -70 %, E 50-60%, Fx -less 50%	
Learning outcomes: Results of education. Ability: 1.Take of medical history and physical examination of patients with GI diseases. 2. Physical examination and indication of GI diagnostic procedures. 3.Real assistance at gastroscopy. 4. Real assistance at colonoscopy. 5. Assistance at endoscopic - ultrasonography. 6. Assistance at examination of gastric acid secretion, and ph metry and densitometry of esophagus. 7. Visit and hepatologic stage at Transpanmtation Unit in Rooswelt Hospital, Banská Bystrica. 8. Final consultation and Grading of classified credit.	
Class syllabus: Practical exercise: 1. Take of medical history and physical examination of patients with GI diseases. 2. Physical examination and indication of GI diagnostic procedures. 3.Real assistance at gastroscopy. 4. Real assistance at colonoscopy. 5. Assistance at endoscopic - ultrasonography. 6. Assistance at examination of gastric acic secretion, and ph metry and densitometry of esophagus. 7. Visit and hepatologic stage at Transpanmtation Unit in Rooswelt Hospital, Banská Bystrica. 8. Final consultation and Grading of classifield credit.	
Recommended literature:	

Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 62						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: MUDr. Peter Hyrdel, PhD., prof. MUDr. Rudolf Hyrdel, CSc.						
Last change: 30.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-582/19	Course title: Clinical Immunology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Passing a theoretical part and practical training during the lectures from clinical immunology	
Learning outcomes: Student will acquire the information about the content of clinical immunology and allergology, overview about the principal objects of clinical immunology, acquire the overview of the specificities of laboratory diagnostics of immune-mediated diseases, get know the specificities of management of selected immune-mediated diseases (especially inborn and acquired immunodeficiencies, autoinflammatory diseases and periodic fever syndromes, angioedemas, selected forms of allergic diseases), get the overview about the vaccination in special situations. The content of the lectures will reflect also the actual situation in the medicine and society and the students will be informed about the most actual hot topics from the field of clinical immunology.	
Class syllabus: Clinical immunology and allergology – content of subject, objects of interests Anaphylaxis – principles of management with practical training of rescue medication application Functional respiratory diagnosis, inflammometry in the management of immune-mediated respiratory diseases, practical example of spirometric examination Diagnostic algorithms of allergic diseases – laboratory testing, skin tests, exposure test, sensitivity and specificity of particular tests, limitations and indications for testing, practical example of skin testing Biologic therapy and its use in the management of immune-mediated diseases Periodic fever syndromes and autoinflammatory diseases – classification, pathophysiology, diagnostic approach, management, case reports analysis Primary and secondary immunodeficiencies – classification, diagnostic, clinical picture, management strategies, treatment options, case reports analysis Vaccination in special situations Actualities in the field of clinical immunology in the context of actual situation in the medicine and society	
Recommended literature:	

Abbas A. et al. Basic Immunology, 6th Edition, 2019. Buc M. et al. Basic and Clinical Immunology. 4th Edition, 2020. Chapel H. et al. Essential of Clinical Immunology, 5th Edition, 2014.						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 33						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA						
Last change: 17.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMI/J-S-VL-607/19	Course title: Clinical Microbiology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.ÚMI/J-S-VL-518/17 - Microbiology (2)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - oral presentation according the schedule Evaluation - evaluation of students Scale of assessment (preliminary/final): 0% / 100%	
Learning outcomes: The student receives information from clinical microbiology, direct and indirect detection of infectious diseases that he is able to use during diagnostical process of different systems infections. Student is able to apply them in differential diagnosis of infection in different patients groups (fetus, newborn, infant, adult, immunocompromised, geriatric).	
Class syllabus: - Medical bacteriology - Medical virology - Medical parasitology - Medical mycology - Etiology of infections of respiratory tract - Etiology of infections of gastrointestinal tract - Etiology of infections of urogenital tract - Etiology of infections of skin and soft tissue - Etiology of infections of NS - Etiology of infections of liver, bloodstream and other organs (eye, ear, bones ...) Pathogenesis of infections Modern diagnostical approaches and their use and interpretation	
Recommended literature: Bednář M a kol. Lékařská mikrobiologie. Praha: Marvil 1996; 558 s. Učebné texty na MEFANETe http://portal.jfmed.uniba.sk/lekarske-discipliny.php?disid=119 a web stránke Ústavu mikrobiológie a imunológie Greenwood D, Barer M, Slack R, Irwing W. Medical Microbiology Eighteenth Edition. Edinburgh: Elsevier Saunders 2012; pp. 778. Murray PR, Rosenthal KS, Pfaller MA. Medical Microbiology Seventh Edition. Philadelphia: Elsevier Saunders 2013; pp. 874. Neuschlová, M., Kompaníková, J., Sadloňová, V., Nováková, E.: Immunology – basic laboratory tests. Martin : Portal JLF UK 2021; 152 s. ISBN 978-80-8187-110-8. https://portal.jfmed.uniba.sk/articles.php?aid=450 .	

Neuschlová, M., Nováková, E., Kompaníková, J., Sadloňová, V.: A to Z Glossary of Immunological Terms. Martin : Portal JLF UK 2021; 80 s. ISBN 978-80-8187-088-0. <https://portal.jfmed.uniba.sk//articles.php?aid=435>.
 Carey A.R. a kol. Lékařská mikrobiologie v klinických případech Praha, Stanislav Juhaňák Triton, 2011.

Languages necessary to complete the course:

English

Notes:

Past grade distribution

Total number of evaluated students: 4

A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., doc. MUDr. Vladimíra Sadloňová, PhD.

Last change: 07.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-583/19	Course title: Clinical Pathophysiology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.ÚPF/J-S-VL-536/17 - Pathological Physiology (2)	
Course requirements: Completion of all educational activities. Presentation of case report (examination of patients at Clinic of Internal Medicine I. or Clinic of Gastroenterological Internal Medicine within the teaching of internal medicine or virtual case reports). Scale of assessment (preliminary/final): Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The student is able to interpret the symptoms and signs and basic laboratory tests of diseases of the cardiovascular system, respiratory system, hematological system, kidneys, gastrointestinal system and other systems of the organism.	
Class syllabus: Introduction to clinical pathophysiology. Disturbances of acid-base balance. Pathophysiology of gastrointestinal system: pathophysiology of selected diseases, laboratory findings. Pathophysiology of renal system: pathophysiology of selected diseases, laboratory findings. Pathophysiology of cardiovascular system: pathophysiology of selected diseases, ecg changes. Pathophysiology of respiratory system: pathophysiology of selected diseases, laboratory findings. Case reports.	
Recommended literature: Berkowitz A. Clinical Pathophysiology Made Ridiculously Simple. Medmaster, 2021. 222 s. ISBN 978-1935-660-44-6 Silbernagl S., Lang F. Color Atlas of Pathophysiology. Thieme, Stuttgart, 2016. 448 s. ISBN 978-3131-165-53-4	
Languages necessary to complete the course:	
Notes:	

Past grade distribution						
Total number of evaluated students: 132						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Ivana Dedinská, PhD., MUDr. Martin Ďuriček, PhD., MUDr. Peter Kunč, PhD., prof. MUDr. Matej Samoš, PhD.						
Last change: 13.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚFa/J-S-VL-581/19		Course title: Clinical Pharmacology				
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 10.						
Educational level: I.II.						
Prerequisites: JLF.ÚFa/J-S-VL-530/21 - Pharmacology (2)						
Course requirements: Presentation of clinical study, presence at min 4 seminars, compensation in compensatory week Scale of assessment (preliminary/final): 100/0						
Learning outcomes: The student knows basic principles of clinical pharmacology and use of drugs in clinical conditions, respecting the rules of evidence-based medicine (the most recent guidelines and recommendations).						
Class syllabus: Antibiotics in clinical practice. Hypertension and its treatment. Atherosclerosis and its treatment. Osteoporosis and its treatment. New trends in the treatment of bronchial asthma vs. COPD. Current aspects to pharmacoeconomics. Pharmacotherapy of pain. Case studies: Diabetes mellitus. Antimicrobial therapy. Antithrombotic and anticoagulant therapy. Therapy of some cardiovascular diseases. Pharmacotherapy in childhood. Clinical Phramacology of mental disroders.						
Recommended literature: Rang HP, Dale MM, Ritter JM.: Pharmacology. 9th ed., Churchill Livingstone, 2019. Rang HP, Dale MM: Pharmacology. 8th ed., Churchill Livingstone, 2015. Katzung, B.G.: Basic Clinical Pharmacology, 15th edition, New York : McGraw-Hill, 2015. Katzung, B.G.: Basic Clinical Pharmacology, 19 th edition, New York : McGraw-Hill, 2021. www.ema.europa.eu						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 196						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Mgr. Juraj Mokrý, PhD., prof. MUDr. Martina Šutovská, PhD., prof. RNDr. Soňa Fraňová, PhD., doc. MUDr. Marta Jošková, PhD.
Last change: 06.04.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-625/18	Course title: Communication in Clinical Practice (1)
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.PK/J-S-VL-532/17 - Medical Psychology and Basics of Communication	
Course requirements: Requirements for evaluation: 1. The participation in practicals is compulsory for at least 5-times (10 hours, especially from 1st to 10th week) 2. Check in the course of practicals: - Evaluation till the end of 14th week: active participation in practicals; permanent study check (control question); examination of patients, structured case reports and analysis – “PESS” - communication problem-etiology-symptoms-solving Evaluation of the results of running controls: A/1 = 93 – 100 %; B/1,5 = 86 – 92 %; C/2 = 79 – 85 %; D/2,5 = 72 – 78 %; E/3 = 65 – 71 %, Fx = less than 65 %	
Learning outcomes: A student shall understand the fundamental aspects of potentially difficult situations that may in interaction doctor – patient occur. A student shall understand the general communication abilities and with so-called problematic group of patients, e.g. aggressive, agitated and non-cooperating patients. A student will be able to understand and to use the specifics of communication with the patients with anxiety, depression, suicidal behavior and patients with somatization. A student will know the specifics of the communication with patients with cognitive disorder, delirium, psychotic and manic disorder. A student shall understand the psychological aspects of patient complaints and communication skills in the medical team. Self-experience in education develops awareness and experiencing emotions of themselves and others, self-support and support, self-reflection and decent work with defense mechanisms type of projection, rationalization, reflection and reinforcement of empathy, strengthening the ability to manage affective responses.	
Class syllabus: I. practical exercises Communication in medicine – characteristic and meaning.	

Basic communication skills of doctor: effective listening, empathy, understanding, advices.

II. practical exercises

Verbal and nonverbal communication in medicine. Criteria of effective communication in medicine. Psychotherapy and communication. Communication in interdisciplinary team of health staff. Communication with patient's relatives.

III. practical exercises

Non-compliance patients. Dissatisfied and aggressive patient. Patient's silence. Conflict in doctor's work and its solution.

IV. practical exercises

Communication with anxious and somatoform patient. Communication with depressive patient. Communication with suicidal patient.

V. practical exercises

Communication with cognitive disability and intellectual disability patient.

VI. practical exercises

Communication with qualitative disturbance of consciousness.

VII. practical exercises

Communication with psychotic patient. Communication with manic patient.

Recommended literature:

Literature:

x McManus, I. C., Richards, P. Psychology in Medicine. Oxford: Butterworth-Heinemann Ltd., 1992. 327 s. ISBN 0-7506-0496-4 x Ayers, S., Visser R. Psychology for medicine. Sage, Los Angeles: SAGE, 2011. 530 s. ISBN 9781412946919 x Lloyd, M., Bor, R. Communication skills for medicine. Edinburgh: Elsevier, 2009. 212 s. ISBN 978-07020-3058-1 Alder, B. et.al. Psychology and sociology applied to medicine. 3rd ed. Edinburgh: Elsevier, 2009. 182 s. Buckman, R. How to Break Bad News: A Guide for Health Care Professionals The Johns Hopkins University Press, Baltimore, 1992, 240 s. ISBN 978-0801844911 Tate, P. The doctor's Communication Handbook. Radcliffe Publishing Ltd; 6th revised edition, 200 s. ISBN 978-1846193927 Beran, J., Sumcovová, P. Introduction to Medical Psychology – Doctor – Patient Communication. Praha: Karolinum, 1. vyd., 2005. 156 s. ISBN 80-246-0983-5 Čaplová, T., Fleischer, J. Pečeňák, J., Vajdičková, K., Žucha, I. Clinical Problems of Medical Psychology. Bratislava: Comenius University, 1995, 83 s. ISBN 80-223-0931-1 Žucha, I. Čaplová, T., Fleischer, J. Vajdičková, K. Medical Psychology. Bratislava: Comenius University, 1994. 90 s. ISBN 80-223-0797-1

Languages necessary to complete the course:

english

Notes:

Past grade distribution

Total number of evaluated students: 564

A	ABS0	B	C	D	E	FX
99,65	0,18	0,18	0,0	0,0	0,0	0,0

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Dana Fuňáková, PhD., MUDr. Andrea Gurová, PhD.

Last change: 06.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-626/18	Course title: Communication in Clinical Practice (2)
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.PK/J-S-VL-625/18 - Communication in Clinical Practice (1)	
Course requirements: Requirements for evaluation: 1. The participation in practicals is compulsory for at least 6-times (12 hours) 2. Check in the course of practicals: - Evaluation till the end of 14th week: active participation in practicals; permanent study check (control questions); examination of patients, case reports and analysis - in written form (specific communication problem solving in different branch of medicine) Evaluation of the results of running controls: A/1 = 93 – 100 %; B/1,5 = 86 – 92 %; C/2 = 79 – 85 %; D/2,5 = 72 – 78 %; E/3 = 65 – 71 %, Fx = less than 65 %	
Learning outcomes: A student shall understand the specific aspects of potentially difficult situations that may in interaction doctor – patient occur. A student shall understand the specifics of outpatient and inpatient care, the communication with long-term and chronically ill patients, with handicapped patients. A student shall handle the reporting of bad messages or messages with infaust prognosis. A student shall understand and handle the specifics of communication in different development stages - childhood and senium. A student shall handle the specifics of communication with the internal medicine and polymorbid patient, surgical patients and psychological specifics of communication in obstetrics and gynecology. A student shall understand and handle the specifics of communication with so-called problematic group of patients, for example with intoxicated and addicted patients, with personality disorder patients. A student shall understand the psychological aspects of patient's complaints, their relatives and communication skills in a medical team.	
Class syllabus: I. practical exercises	

<p>Specifics of communication with somatically ill patient in child age and adolescence. Communication with parents. Specifics of communication in child psychiatry.</p> <p>II. practical exercises</p> <p>Specifics of communication with internal medicine patient, polymorbid patient and seniors.</p> <p>III. practical exercises</p> <p>Specifics of communication with surgical patient.</p> <p>IV. practical exercises</p> <p>Specifics of communication in obstetrics and gynecology.</p> <p>V. practical exercises</p> <p>Communication with intoxicated and addicted patient. Communication with personality disorder patient.</p> <p>VI. practical exercises</p> <p>Communication with seriously ill and dying patient. Communication with oncological patient. Reporting of negative/adverse messages. Communication with relatives.</p> <p>VII. practical exercises</p> <p>Communication with physical disability patient. Communication with sensory disability patient.</p>																				
<p>Recommended literature:</p> <p>x McManus, I. C., Richards, P. Psychology in Medicine. Oxford: Butterworth-Heinemann Ltd., 1992. 327 s. ISBN 0-7506-0496-4 x Ayers, S., Visser R. Psychology for medicine. Sage, Los Angeles: SAGE, 2011. 530 s. ISBN 9781412946919 x Lloyd, M., Bor, R. Communication skills for medicine. Edinburgh: Elsevier, 2009. 212 s. ISBN 978-07020-3058-1 Alder, B. et.al. Psychology and sociology applied to medicine. 3rd ed. Edinburgh: Elsevier, 2009. 182 s. Buckman, R. How to Break Bad News: A Guide for Health Care Professionals The Johns Hopkins University Press, Baltimore, 1992, 240 s. ISBN 978-0801844911 Tate, P. The doctor 's Communication Handbook. Radcliffe Publishing Ltd; 6th revised edition, 200 s. ISBN 978-1846193927 Beran, J., Sumcovová,P. Introduction to Medical Psychology – Doctor – Patient Communication. Praha: Karolinum, 1. vyd., 2005. 156 s. ISBN 80-246-0983-5 Čaplová, T., Fleischer,J. Pečeňák,J.,Vajdičková,K., Žucha, I. Clinical Problems of Medical Psychology. Bratislava: Comenius University, 1995, 83 s. ISBN 80-223-0931-1 Žucha, I. Čaplová, T., Fleischer, J. Vajdičková, K. Medical Psychology. Bratislava: Comenius University, 1994. 90 s. ISBN 80-223-0797-1</p>																				
<p>Languages necessary to complete the course:</p> <p>english</p>																				
<p>Notes:</p>																				
<p>Past grade distribution</p> <p>Total number of evaluated students: 536</p> <table border="1"> <thead> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>100,0</td><td>0,0</td><td>0,0</td><td>0,0</td><td>0,0</td><td>0,0</td><td>0,0</td></tr> </tbody> </table>							A	ABS0	B	C	D	E	FX	100,0	0,0	0,0	0,0	0,0	0,0	0,0
A	ABS0	B	C	D	E	FX														
100,0	0,0	0,0	0,0	0,0	0,0	0,0														
<p>Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., MUDr. Dana Fuňáková, PhD.</p>																				
<p>Last change: 06.09.2024</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KSMCh/J-S-VL-552/19	Course title: Dental Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 1 per level/semester: 7 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-503/16 - Anatomy (3) and JLF.ChKTC/J-S-VL-522/22 - Surgical Propedeutics (1)	
Course requirements: Attendance on practical exercises 100%. Continuous assessment test form, minimum level succes 65 %, maximum number of points are 20, minimum number of points are 13. Final evaluation in the final test form, maximum number of points are 30, minimum level succes 65 %, 19 points. Scale of assessment (preliminary/final): Final evaluation in the final test form, maximum number of points are 30, minimum level succes 65 %, 19 points.	
Learning outcomes: After completion of the subject the student understands various severe pathological processes in oro-maxillofacial region. The student is able to analyse interrelationship between systemic disease of the body and diseases of oro-maxillofacial region. After completion of the subject the student is able to apply interdisciplinary view when analyzing diseases of oro-maxillofacial region. The student is able to apply knowledge aquired from practical exercises during the examination and diagnosis of injuries and diseases of oro-maxillofacial region. After completion of the subject the student is able to identify precancerous changes, benign, malignant tumors of maxillofacial region and understands the basic guidlines of the multimodal cancer therapy. The student understands basic guidlines in the care about patient with orofacial trauma.	
Class syllabus: A brief outline of the history of dentistry, branches of dentistry. Anatomy, physiology and development of oro-maxillofacial region, development of the dentition, developmental disorders in oro-maxillofacial region. Dental caries, definition, classification, etiology, pathogenesis, diagnosis, prevention, prophylaxis, treatment and complications. Dental pulp diseases, classification, etiology, pathogenesis, diagnosis, prevention, treatment and complications. Apical periodontitis, classification, etiology, pathogenesis, diagnosis, prevention, treatment and complications. Periostitis of the jaws, subperiostal and submucosal odontogenic abscesses, etiology, pathogenesis, diagnosis, prevention, treatment and complications. Osteomyelitis of the jaws, classification, etiology, pathogenesis, diagnosis, prevention, treatment and complications. Dentogenous (odontogenic) inflammations – spread through head and neck spaces, etiology, pathogenesis, diagnosis, prevention, treatment and complications. Diseases of periodontal tissues	

and oral mucosa, oral manifestations of systemic diseases, classification, etiology, pathogenesis, diagnosis, prevention, treatment and complications. Contents and targets of prosthodontics, fixed restorations, removable dentures, consequences of worn and incorrect designed dentures, dental implants. Soft tissue cysts and jaw cysts of oro-maxillofacial region, classification, etiology, pathogenesis, diagnosis, treatment and complications. Salivary gland diseases, classification, etiology, pathogenesis, diagnosis and treatment. Lymph node diseases in the head and neck area classification, etiology, diagnosis and treatment. Dentofacial anomalies, classification, etiology, prevention, orthodontic treatment. Fractures of facial skeleton, classification, etiology, diagnosis, treatment and complications. The first medical aid in orofacial trauma. Benign and malignant tumors of the oro-maxillofacial region, classification, etiology, diagnosis. Guidelines of the multimodal cancer therapy.

Recommended literature:

Tatjana Dostálová a kol.: Stomatologie, Praha: Grada, 2008, 196 s., ISBN 8024727004. Kolektiv autoru: Stomatologie, Praha: Karolinum, 1999, 111 s., ISBN 8071848654. Ján Vaško a kol.: Stomatológia, Martin: Osveta, 1994, 138 s., ISBN 8021705515 Mitchell, D., A., Mitchell, L.: Oxford handbook of clinical dentistry, New York, Oxford university press, 2005, 4th.ed, ISBN 0-19-852920-1

Languages necessary to complete the course:

english language

Notes:

Past grade distribution

Total number of evaluated students: 515

A	ABS0	B	C	D	E	FX
66,6	0,0	26,99	4,85	1,17	0,39	0,0

Lecturers: doc. MUDr. Mária Janíčková, PhD., MPH, MUDr. Igor Malachovský, PhD., MUDr. Katarína Mikušková, PhD., MDDr. Sarah Kalmanová, MDDr. Michaela Smatanová, PhD.

Last change: 15.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.DK/J-S-VL-544/18	Course title: Dermatovenerology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.ÚMI/J-S-VL-517/17 - Microbiology (1) and JLF.ÚPA/J-S-VL-533/17 - Pathological Anatomy (1)	
Course requirements: The assessment is in the form of written exam, the minimal requirement is: 65 %. Grades: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less	
Learning outcomes: The absolvent of dermatovenerology knows the basics of the diseases of skin and mucous membranes, can explain the etiopathogenesis of those diseases, knows the diagnostic methods, principles of treatment and differential diagnosis of skin diseases.	
Class syllabus: Content of Lectures Vesicular and bullous diseases, diagnosis of bullous disorders. Pemphigus, dermatitis herpetiformis, linear bulous dermatosis, bullous pemphigoid. Connective tissue disease, lupus erythematosus (LE), clinical classification, chronic cutaneous LE, scleroderma, dermatomyositis and polymyositis. Hypersensitivity syndromes and vasculitis, erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, erythema nodosum, vasculitis of small and large vessels. Bacterial infections: impetigo, ecthyma, cellulitis and erysipelas, folliculitis, sycosis barbae, furuncles and carbuncles, staphylococcal scalded skin syndrome, toxic shock syndrome, granulomatous infections: tuberculosis, leprosy. Fungal infections: dermatophyte fungal infections, candidiasis, chronic mucocutaneous candidiasis, systemic candidiasis, tinea versicolor. Eczema and dermatitis, atopic dermatitis. Urticaria, drug reactions. Sexually transmitted bacterial infections, gonorrhea, syphilis. Rare STD – lymphogranuloma venereum, granuloma inguinale. Sexually transmitted viral infections, genital warts, bowenoid papulosis, molluscum contagiosum, genital herpes simplex, acquired immunodeficiency syndrome. Paraneoplastic syndromes, lymphomas. Mastocytoses, histiocytoses.	

Tropical dermatovenerology.
 Content of Seminars and Practical Sessions
 Structure and function of the skin. Principles of clinical diagnosis in dermatologic practice. History of dermatovenerological patient, demonstration by the slides.
 Histopathology of the skin diseases. Description of the local skin findings.
 Principles of local therapy. Diagnostic techniques for the cutaneous mycoses. Chosen fungal diseases.
 Mycosis fungoides. Neurofibromatosis. Tumors of the melanocyte system.
 Dermatological allergology. Allergological techniques and laboratory examinations.
 Papulosquamous diseases (psoriasis, parapsoriasis, lichen planus, pityriasis rubra pilaris).
 Acne and rosacea – differential diagnosis and treatment.
 Venous disease of the lower extremities, thrombophlebitis and phlebothrombosis.
 Leg ulcers – differential diagnosis in leg ulcers.
 Premalignant and malignant epidermal tumors (basal cell carcinoma, squamous cell carcinoma).
 Tumours of the melanocyte system.
 Venerological diseases – syphilis, gonorrhoea – laboratory examinations.
 Case reports.

Recommended literature:

Rook , Wilkinson, Ebling: Textbook of Dermatology, Blackwett Science, 2010
 Minarikova, E.: Clinical Dermatovenerology, Comenius University Bratislava, Polygrafické stredisko UK , Bratislava, 2011
 Orkin, M. at al. Dermatology. Norwalk, Conn: Appleton Lange 1991.
 Ashton, R., Leppard, B.: Differential Diagnosis in Dermatology. Philadelphia, J.B. Lippincott Comp. 1990.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 620

A	ABS0	B	C	D	E	FX
81,77	0,0	15,0	2,74	0,48	0,0	0,0

Lecturers: prof. MUDr. Juraj Pěč, CSc., doc. MUDr. Eva Minariková, PhD., MUDr. Tatiana Hurťová, PhD., MSc., MUDr. Karolína Vorčáková, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFy/J-S-VL-593/22	Course title: Diploma Thesis Seminar (1)
Educational activities: Type of activities: seminar Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes: A student chooses a topic of a thesis, and together with a supervisor he/she determines a strategy of thesis preparation (schedule), prepares a working outline of a thesis, presents the main objective of work and information retrieval.	
Class syllabus: Becoming familiar with the internal regulations related to thesis preparation. Becoming familiar with the basic stages of thesis preparation. Choosing a thesis topic. Strategy of thesis preparation (schedule). Working outline of a thesis, presentation of work objective. Information retrieval - searching documents related to the topic. Consultations.	
Recommended literature: In each student individually according to the diploma thesis assignment. Internal Regulation No. 12/2013 Guideline of the Rector of Comenius University in Bratislava on the Basic Essentials of Theses, Rigorous Theses and Habilitation Theses, Check of Their Originality, Their Storage and Accessing at Comenius University in Bratislava Internal Regulation No. 43/2013 Decision of the Dean of the Jessenius Faculty of Medicine in Martin CU on Theses (bachelor's and master's) of students of JFMED CU in Martin Hanacek J, Javorka K et al. Introduction to Scientific Work. Textbook for Medical Students. ŠEVT a.s., Bratislava, 2011. 196 p. ISBN 978-80-88866-95-4.	
Languages necessary to complete the course: English language	
Notes:	

Past grade distribution	
Total number of evaluated students: 211	
ABS0	M
100,0	0,0
<p>Lecturers: prof. MUDr. Michal Javorka, PhD., prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Daniela Mokrá, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., prof. MUDr. Kamil Javorka, DrSc., prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Martina Šutovská, PhD., prof. MUDr. Mgr. Juraj Mokrá, PhD., doc. MUDr. Marta Jošková, PhD., PharmDr. Martin Kertys, PhD., MUDr. Ladislav Šutiak, PhD., prof. MUDr. Ľudovít Laca, PhD., MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Marek Malík, PhD., prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Romana Richterová, PhD., prof. MUDr. Lukáš Plank, CSc., prof. MUDr. Katarína Adamicová, PhD., MUDr. Tomáš Balhárek, PhD., MUDr. Jozef Mičák, PhD., MUDr. Petra Kolenčíková, PhD., MUDr. Jaroslav Fábry, PhD., prof. MUDr. Ján Staško, PhD., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., MPH, RNDr. Jana Žolková, PhD., prof. MUDr. Henrieta Hudečková, PhD., MPH, prof. MUDr. Tibor Baška, PhD., doc. Ing. Viera Jakušová, PhD., MPH, Ing. Stanislav Kuka, PhD., prof. MUDr. Viera Švihrová, CSc., PhDr. Marta Tkáčová, PhD., Mgr. Róbert Čecho, PhD., Mgr. Eva Malobická, PhD., Mgr. et Mgr. Martin Novák, PhD., Mgr. Miroslava Sovičová, PhD., Mgr. Eliška Štefanová, PhD., Mgr. Mária Tatarková, PhD., doc. MUDr. Vladimír Čalkovský, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Maťašová, PhD., MUDr. Tomáš Jurko, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Vladimír Nosál, PhD., FESO, prof. MUDr. Štefan Sivák, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., MUDr. Tomáš Buday, PhD., prof. RNDr. Mariana Brozmanová, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., RNDr. Veronika Mešťanová, PhD., MUDr. Jan Hudeček, CSc., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ján Lazor, prof. MUDr. Eva Rozborilová, CSc., doc. MUDr. Robert Vyšehradský, PhD., MUDr. Ivana Lipták Žiačiková, MUDr. Róbert Rosolanka, PhD., doc. MUDr. Katarína Šimeková, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Martin Ďuriček, PhD., MUDr. Peter Hyrdel, PhD., prof. MUDr. Rudolf Hyrdel, CSc., MUDr. Martin Schnierer, PhD., prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Ivana Chmúrna, PhD., MUDr. Petra Kasajová, PhD., MUDr. Štefan Krivuš, CSc., prof. MUDr. Erik Kúdela, PhD., MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Jana Siváková, PhD., MUDr. Imrich Žigo, CSc., doc. MUDr. Milan Grofik, PhD.</p>	
Last change: 08.03.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHT/J-S-VL-595/22	Course title: Diploma Thesis Seminar (2)
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Submission of final thesis outline. Scale of assessment (preliminary/final): continuous	
Learning outcomes: A student is able to choose relevant documents and information related to the given topic, he/she is able to work with literature and knows how to cite it correctly. He/she can gather and process research material (according to the aim of a thesis).	
Class syllabus: Becoming familiar with the content of the documents obtained in the information retrieval in details, reading, studying. Selection of relevant documents and information for further processing. Ways of citations. Method of diploma thesis elaboration (information gathering and processing) according to the aim of a thesis). Thesis elaboration – final thesis outline, layout of the material into content-related units. Independent research work of students – according to the aim of a thesis. Consultations.	
Recommended literature: In each student individually according to the diploma thesis assignment Internal Regulation No. 12/2013 Guideline of the Rector of Comenius University in Bratislava on the Basic Essentials of Theses, Rigorous Theses and Habilitation Theses, Check of Their Originality, Their Storage and Accessing at Comenius University in Bratislava Internal Regulation No. 43/2013 Decision of the Dean of the Jessenius Faculty of Medicine in Martin CU on Theses (bachelor's and master's) of students of JFMED CU in Martin Hanacek J, Javorka K et al. Introduction to Scientific Work. Textbook for Medical Students. ŠEVT a.s., Bratislava, 2011. 196 p. ISBN 978-80-88866-95-4.	
Languages necessary to complete the course: English language	
Notes:	

Past grade distribution	
Total number of evaluated students: 193	
ABS0	M
100,0	0,0
<p>Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Daniela Mokrý, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., prof. MUDr. Henrieta Hudečková, PhD., MPH, prof. MUDr. Tibor Baška, PhD., prof. MUDr. Viera Švihrová, CSc., doc. Ing. Viera Jakušová, PhD., MPH, PhD. Marta Tkáčová, PhD., Ing. Stanislav Kuka, PhD., Mgr. Eva Malobická, PhD., Mgr. et Mgr. Martin Novák, PhD., Mgr. Miroslava Sovičová, PhD., Mgr. Róbert Čecho, PhD., Mgr. Mária Tatarková, PhD., Mgr. Eliška Štefanová, PhD., prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Martina Šutovská, PhD., prof. MUDr. Mgr. Juraj Mokry, PhD., doc. MUDr. Marta Jošková, PhD., PharmDr. Martin Kertys, PhD., prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., prof. RNDr. Mariana Brozmanová, PhD., MUDr. Tomáš Buday, PhD., prof. MUDr. Ľudovít Laca, PhD., MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., doc. MUDr. Marek Smolár, PhD., MPH, prof. MUDr. Ján Staško, PhD., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., MPH, RNDr. Jana Žolková, PhD., doc. MUDr. Vladimír Čalkovský, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Maťašová, PhD., MUDr. Tomáš Jurko, PhD., prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Romana Richterová, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Vladimír Nosál, PhD., FESO, prof. MUDr. Štefan Sivák, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Lukáš Plank, CSc., prof. MUDr. Katarína Adamicová, PhD., MUDr. Tomáš Balhárek, PhD., MUDr. Jozef Mičák, PhD., MUDr. Petra Kolenčíková, PhD., Ing. Marcel Veterník, PhD., MUDr. Jaroslav Fábry, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., doc. RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, doc. MUDr. Robert Vyšehradský, PhD., MUDr. Ivana Lipták Žiačiková, MUDr. Róbert Rosolanka, PhD., doc. MUDr. Katarína Šimeková, PhD., prof. MUDr. Kamil Biringier, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Ivana Chmúrna, PhD., MUDr. Petra Kasajová, PhD., MUDr. Štefan Krivuš, CSc., prof. MUDr. Erik Kúdela, PhD., MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Jana Siváková, PhD., MUDr. Imrich Žigo, CSc., MUDr. Lukáš Spevák, MUDr. Adam Švec, PhD., doc. MUDr. Juraj Miklušica, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miroslav Slezák, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Marek Malík, PhD., MUDr. Vladimír Svitek, PhD., doc. MUDr. Tomáš Bolek, PhD., prof. MUDr. Ivana Dedinská, PhD., prof. MUDr. Matej Samoší, PhD., prof. MUDr. Peter Galajda, CSc., MUDr. Karol Graňák, PhD., doc. MUDr. Matej Vnučák, PhD., doc. MUDr. Milan Grofik, PhD.</p>	
Last change: 08.03.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHT/J-S-VL-596/22	Course title: Diploma Thesis Seminar (3)
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Fulfilment of particular parts of thesis outline in the form of material from the study and/or research (according to the aim of thesis). Scale of assessment (preliminary/final): continuous	
Learning outcomes: A student is able to choose relevant documents and information related to the given topic, he/she is able to work with literature and knows how to cite it correctly. He/she can gather and process research material (according to the thesis topic). A student is able to create a text as far as formal requirements and content are concerned.	
Class syllabus: Becoming familiar with the content of other documents obtained in the information retrieval in details, reading, studying. Selection of relevant documents and information for further processing. Summarizing the bibliography. Thesis elaboration – filling the particular parts of a final outline of thesis with material from the study and research (according to the aim of a thesis), thesis text elaboration. Preparation of documentation related to thesis – bibliography, illustrations, tables. Independent research work of students – according to the aim of a thesis. Consultations.	
Recommended literature: In each student individually according to the diploma thesis assignment Internal Regulation No. 12/2013 Guideline of the Rector of Comenius University in Bratislava on the Basic Essentials of Theses, Rigorous Theses and Habilitation Theses, Check of Their Originality, Their Storage and Accessing at Comenius University in Bratislava Internal Regulation No. 43/2013 Decision of the Dean of the Jessenius Faculty of Medicine in Martin CU on Theses (bachelor's and master's) of students of JFMED CU in Martin Hanacek J, Javorka K et al. Introduction to Scientific Work. Textbook for Medical Students. ŠEVT a.s., Bratislava, 2011. 196 p. ISBN 978-80-88866-95-4.	
Languages necessary to complete the course: English language	
Notes:	

Past grade distribution	
Total number of evaluated students: 193	
ABS0	M
100,0	0,0
<p>Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Daniela Mokrý, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., prof. MUDr. Henrieta Hudečková, PhD., MPH, prof. MUDr. Tibor Baška, PhD., prof. MUDr. Viera Švihrová, CSc., doc. Ing. Viera Jakušová, PhD., MPH, PhD. Marta Tkáčová, PhD., Ing. Stanislav Kuka, PhD., Mgr. Eva Malobická, PhD., Mgr. et Mgr. Martin Novák, PhD., Mgr. Miroslava Sovičová, PhD., Mgr. Róbert Čecho, PhD., Mgr. Mária Tatarková, PhD., Mgr. Eliška Štefanová, PhD., prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Martina Šutovská, PhD., prof. MUDr. Mgr. Juraj Mokry, PhD., doc. MUDr. Marta Jošková, PhD., PharmDr. Martin Kertys, PhD., prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., MUDr. Tomáš Buday, PhD., prof. RNDr. Mariana Brozmanová, PhD., prof. MUDr. Ľudovít Laca, PhD., MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., doc. MUDr. Marek Smolár, PhD., MPH, prof. MUDr. Ján Staško, PhD., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., MPH, RNDr. Jana Žolková, PhD., doc. MUDr. Vladimír Čalkovský, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Maťašová, PhD., MUDr. Tomáš Jurko, PhD., prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Romana Richterová, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Vladimír Nosál, PhD., FESO, prof. MUDr. Štefan Sivák, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Lukáš Plank, CSc., prof. MUDr. Katarína Adamicová, PhD., MUDr. Tomáš Balhárek, PhD., MUDr. Jozef Mičák, PhD., MUDr. Petra Kolenčíková, PhD., MUDr. Jaroslav Fábry, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., doc. RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., MUDr. Jan Hudeček, CSc., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, doc. MUDr. Robert Vyšehradský, PhD., MUDr. Ivana Lipták Žiačiková, MUDr. Róbert Rosolanka, PhD., doc. MUDr. Katarína Šimeková, PhD., prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Ivana Chmúrna, PhD., MUDr. Petra Kasajová, PhD., MUDr. Štefan Krivuš, CSc., prof. MUDr. Erik Kúdela, PhD., MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Jana Siváková, PhD., MUDr. Imrich Žigo, CSc., MUDr. Lukáš Spevák, MUDr. Adam Švec, PhD., doc. MUDr. Juraj Miklušica, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miroslav Slezák, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Marek Malík, PhD., MUDr. Vladimír Svitek, PhD., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Tomáš Bolek, PhD., prof. MUDr. Ivana Dedinská, PhD., prof. MUDr. Peter Galajda, CSc., MUDr. Karol Graňák, PhD., MUDr. Lívia Jamrišková, PhD., doc. MUDr. Matej Vnučák, PhD., doc. MUDr. Milan Grofik, PhD.</p>	
Last change: 08.03.2022	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF/J-SVL-SS55/21	Course title: Diploma Thesis and Defense of Diploma Thesis
Number of credits: 4	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-593/22 - Diploma Thesis Seminar (1) and JLF.KHT/J-S-VL-595/22 - Diploma Thesis Seminar (2) and JLF.KHT/J-S-VL-596/22 - Diploma Thesis Seminar (3)	
Course requirements: Elaboration of final version of diploma thesis, submission of diploma thesis, presentation and diploma thesis defence in front of the committee for state examination subject Diploma Thesis Defence.	
Learning outcomes: A student is able to work creatively with literature sources and summarize basic scientific knowledge into logically organized unit which meets formal requirements of diploma thesis. He/she can clearly define the aim and methodology of diploma thesis, he/she can process the results together with practical interpretation (according to the aim of a thesis), he/she knows how to cite literature in accordance with valid regulations. He/she is able to present and defend results of his/her diploma thesis.	
Class syllabus: Elaboration of work – elaboration of text (formal structure and content) – writing a thesis, filling the particular parts of outline with material from study of literature and research (according to the aim of a thesis), specifying relationships and formulations, illustrations, tables. Preparation of documentation – bibliography and its summarization with regard to the ethics and techniques, author reading, corrections. Preparation of diploma thesis final version – in terms of content (aiming predominantly at discussion and conclusion) and formal structure, incorporating supervisor's comments Consultations regarding particular parts of preparation of diploma thesis final version. Submission of diploma thesis. Defence – presentation of diploma thesis and its preparation.	
State exam syllabus: Content of Diploma Thesis is determined according to the aim of Thesis.	
Recommended literature: In each student individually according to the diploma thesis assignment Internal Regulation No. 12/2013 Guideline of the Rector of Comenius University in Bratislava on the Basic Essentials of Theses, Rigorous Theses and Habilitation Theses, Check of Their Originality, Their Storage and Accessing at Comenius University in Bratislava Internal Regulation No. 43/2013 Decision of the Dean of the Jessenius Faculty of Medicine in Martin CU on Theses (bachelor's and master's) of students of JFMED CU in Martin Hanacek J, Javorka K et al. Introduction to Scientific Work. Textbook for Medical Students. ŠEVT a.s., Bratislava, 2011. 196 p. ISBN 978-80-88866-95-4.	

Languages necessary to complete the course: English language
Last change: 07.04.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-594/19	Course title: Disaster Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ÚVZ/J-S-VL-617/19 - Public Health (1)	
Recommended prerequisites: Public Health 1	
Course requirements: EVALUATION OF THE COURSE Requirements to successfully complete the course: To complete the course, two basic conditions should be fulfilled: 1. active attendance: compulsory attendance – in case of absence, the student should substitute the missing through consultation with the respective teacher 14x2 (28 points) 2. two well arranged preparations from the proposed themes (as PowerPoint presentations) and their presentation during the practicals (each 36 points; 72 points in total) Final evaluation (max. 100 points): Achieved points Evaluation 100 – 91 A (excellent - 1) 90 – 81 B (very good – 1.5) 80 – 73 C (good - 2) 72 – 66 D (satisfactory – 2.5) 65 – 60 E (sufficient - 3) 59 and less Fx (fail - 4) At least 60 points in total evaluation are needed to compete the course. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student understands - kinds of injuries in natural and man-made disasters - risks of emergent situation on local, regional, national and international level - problem of preparedness and public health measures to deal with emergent situations as well as their management -international health regulations -basic characteristics of flu pandemic preparedness	

Class syllabus:

Public health and disaster medicine. Management in emergent situations. Integrated rescue system. International health regulations. Planned measures in Slovak Republic in a case of event liable to international regulations. Pandemic preparedness and international cooperation in emergent situations. Disasters with predominant chemical effect. Psychological impact of disasters, human stampede, ethical aspects of disaster medicine. War medicine and terrorism. Nuclear, industrial, natural and humanitarian disasters.

Recommended literature:**OBLIGATORY LITERATURE**

moodle.uniba.sk

MacGarty, D., Nott, D.: Disaster Medicine. A Case Based Approach. London: 390 p. Springer.

ISBN 978-1-4471-4423-6. <https://link.springer.com/book/10.1007/978-1-4471-4423-6>

RECOMMENDED LITERATURE

<http://www.who.int/topics/>

www.ecohealth101.org

<http://www.ecdc.europa.eu>

Languages necessary to complete the course:

english

Notes:**Past grade distribution**

Total number of evaluated students: 32

A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Tibor Baška, PhD., Mgr. Mária Tatarková, PhD., prof. RNDr. Soňa Fraňová, PhD.

Last change: 06.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-634/20	Course title: Effective Learning Methods
Educational activities: Type of activities: lecture Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Participation in lectures. Participation and evaluation of the questionnaires: motivation for learning, learning styles, coping strategies. Time management diary for successful learning. Scale of assessment (preliminary/final): 50/100 A:95% - 100%, B:88% - 94%, C: 77% - 87%, D: 86% - 76%, E: 60% - 65%	
Learning outcomes: The graduates acquire the information about the effective learning strategies based on the latest evidences from neuropsychology and neuropedagogy, useful information about the memory, forgetting curve, motivation and concentration. Students identify preferred learning styles by using verified questionnaires. The effect of the stress and anxiety on the academic success and learning will be discussed.	
Class syllabus: Learning processes, brain compatible learning. Motivation for learning. Concentration. Memory, repetition and Ebbinghaus forgetting curve. Multitasking and the brain. Time management for learning, procrastination. Learning styles. Sleep, memory and learning. Regime and learning. Stress, memory and learning. Exam stress. Coping strategies and autogenic training. Learning with digital technologies. Alternative learning techniques.	
Recommended literature: Boleková, Výbohová, Hešková et al. How to study and not forget - Principles of brain-compatible learning, Univerzita Pavla Jozefa Šafárika v Košiciach, ŠafárikPress, Košice 2020, ISBN 978-80-8152-897-2. https://unibook.upjs.sk/sk/lekarska-fakulta/1391-how-to-study-and-not-forget-principles-of-brain-compatible-learning Rhodes, Cleary and DeLosh. A Guide to Effective Studying and learning: Practical strategies from the Science of Learning, Oxford University press, 2019. Jensen. Introduction to Brain-Compatible Learning, Corwin, 2007. Our Textbook is prepared under the project KEGA 019UPJŠ – 4 - 2018 in slovak and english language.	
Languages necessary to complete the course:	

Notes:						
Past grade distribution Total number of evaluated students: 11						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. MUDr. Desanka Výbohová, PhD., MVDr. Sandra Hurta Csizmár, PhD., RNDr. Alena Mazuráková, PhD.						
Last change: 14.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚHE/J-S-VL-635/20	Course title: Elements of Embryology
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 80% participation on the seminars (at least 11 weeks), written final test Evaluation: A - Fx Scale of assessment (preliminary/final): 20/80	
Learning outcomes: Review of human prenatal development with emphasis on chosen organs and organ systems, considering the fundamental knowledge from cell biology and genetics in given aspects. Attention being paid especially to teratogenic agents.	
Class syllabus: 1) Introduction to embryology, gametogenesis, fertilization. 2) First month of intrauterine development - Review. 3) Placenta development and clinical correlations. 4) Development of CNS and PNS with clinical correlations. 5) Development of cardiovascular system and clinical correlations. 6) Development of respiratory system and clinical correlations. 7) Development of digestive system and clinical correlations. 8) Development of endocrine system and clinical correlations. 9) Development of urogenital system and clinical correlations. 10) Multiple pregnancy and clinical correlations. 12) Final evaluation.	
Recommended literature: Obligatory literature: Sadler T.W.: Langman's Medical Embryology. Wolters Kluwer, 2019, 432 s. ISBN 978149638907 Recommended literature: Moore, K.L., Persaud T.V.N., Torchia M.G.: Before we are born (Essentials of Embryology and Birth Defects). Elsevier, 2019, 350 s. ISBN 9780323608497	
Languages necessary to complete the course:	

english						
Notes:						
Past grade distribution						
Total number of evaluated students: 182						
A	ABS0	B	C	D	E	FX
70,33	0,0	15,38	3,3	2,75	2,2	6,04
Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Báľentová, PhD., doc. RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., Ing. Veronika Cígerová, PhD., prof. RNDr. Peter Kubatka, PhD., RNDr. Lenka Lacková, PhD.						
Last change: 13.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.KAIM/J-S-VL-606/19		Course title: Emergency Medicine				
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning						
Number of credits: 2						
Recommended semester: 9.						
Educational level: I.II.						
Prerequisites: JLF.IKG/J-S-VL-539/19 - Internal Medicine (1) and JLF.ÚFa/J-S-VL-529/21 - Pharmacology (1)						
Course requirements: Attendance of 100 % on practicals and successful completion of final test.						
Learning outcomes: By completing the course the students will gain knowledge and skills in the field of basic physical examination, modified to the conditions of emergency medicine, cardiopulmonary resuscitation and stabilization of basic vital functions. Students will acquire practical skills to proceed in individual life-threatening conditions and acquire theoretical skills in the organization of work in pre-hospital care in events with mass casualty accidents.						
Class syllabus: Basic life support, advanced life support, arrhythmia management, management of airways and breathing, acute coronary syndromes, respiratory failure, injuries, mass accidents, organisation of prehospital care						
Recommended literature: ERC guidelines 2021 https://cprguidelines.eu/guidelines-translations Oxford Handbook Of Emergency Medicine						
Languages necessary to complete the course: Slovak / English Language						
Notes:						
Past grade distribution Total number of evaluated students: 470						
A	ABS0	B	C	D	E	FX
46,17	0,0	25,96	12,98	9,57	5,32	0,0
Lecturers: doc. MUDr. Milan Minarik, PhD., prof. MUDr. Beata Drobná Sániová, PhD., MUDr. Denisa Osinová, PhD.						

Last change: 06.04.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚO/J-S-VL-531/17	Course title: Ethics in medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Active participation in seminars. Two knowledge tests (continuous and final) written with min. 60% success rate. Overall evaluation of the course based on the results of the first and second test: A / 1 = 91 - 100%; B / 1.5 = 81 - 90%; C / 2 = 73 - 80%; D / 2.5 = 66 - 72%; E / 3 = 60 - 65%; Fx = less than 60%. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: By completing the course, the student acquires knowledge of the basic problems of medical ethics and bioethics. The student understands the principles of medical ethics and their importance in education, practice, and research in the field of medicine. The student can apply knowledge to case studies, can analyse them, identify problems and dilemmas and propose solutions. The course contributes to the formation of moral attitudes of students to medicine, patients, and other health professions in a team.	
Class syllabus: Introduction to general ethics. Ethics, morality, and moral reasoning. Basic ethical theories in the context of medical ethics. Ethics and law. Introduction to medical ethics. Basic terminology of medical ethics. Hippocratic tradition and oath. Medical oath of the World Medical Association (Geneva Declaration). Principles of medical ethics and their application. Code of ethics. Dignity. Patients' rights. The doctor-patient relationship. Paternalism and partnership. Informed consent and the right to refuse treatment. Ethical aspects of providing information. Ethics at the beginning of human life (contraception, sterilization, assisted reproduction, abortion). Basics of thanatology. Dying with dignity. The issue of euthanasia and assisted suicide. Ethical aspects of biomedical research and publishing. Ethics committee.	
Recommended literature: Beauchamp L.T., Childress, F.J. Principles of Biomedical Ethics. 6th. ed. New York, Oxford : Oxford University Press, 2009, 417 p. ISBN 978-0-19-533570-5. Declaration on the Promotion of Patients' Rights in Europe.	

European Charter of Patients' Rights.
Declaration of Geneva. World Medical Association. 2006.
Medical Ethics Manual [on-line]. World Medical Association. URL: <https://www.wma.net/what-we-do/education/medical-ethics-manual/>

Languages necessary to complete the course:

English language

Notes:

The subject is supported by MS Teams.

Past grade distribution

Total number of evaluated students: 749

A	ABS0	B	C	D	E	FX
71,16	0,0	20,03	7,48	0,67	0,67	0,0

Lecturers: doc. Mgr. Juraj Čáp, PhD.

Last change: 23.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-605/18	Course title: Financing of Healthcare System and Health Insurance
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Evaluation of students is provided through attending, running (10 items - max. 50 p.) and final written (10 items - max. 50 p.) tests. Minimal level to pass the subject: 65 %. Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student understands the history of health insurance system in Slovakia and relations between health insurance participants, current health care system in Slovakia, rights and obligations of insured person, and principles of solidarity in the public health insurance system. The student is able to identify the forms of health care financing and prevention, basic payment methods. The student understands the development of available sources, principles of health care purchasing, and control mechanisms during the health care providing and in health insurance system.	
Class syllabus: Health insurance models. Reform of health insurance system in Slovakia, sources of funding, their structure, principle of redistribution. Participants in health insurance system. The tasks of health insurance company in the provision of health care, rights and obligations of insured person. Control mechanisms in health insurance system. Different forms of health care financing, payment methods. Current situation in health care financing.	
Recommended literature: Obligatory literature: ONDRUŠ, P., ONDRUŠOVÁ, I. A KOL. Manažment a financovanie v zdravotníctve: príručka zdravotníckeho manažéra Bratislava: Matica slovenská, 2017. 320 s.	

KOVÁČ E.: Zdravotné poistenie. Bratislava, Herba, 2009, s. 96, ISBN 978-80-89171-62-0
Zákon č. 580/2004 Z. z. v znení neskorších predpisov
Zákon č. 581/2004 Z. z. v znení neskorších predpisov
aktuálna Správa o stave vykonávania verejného zdravotného poistenia (Vestník ÚDZS)
materiály dostupné na: www.health.gov.sk, www.udzs.sk

Languages necessary to complete the course:

slovak

Notes:

Past grade distribution

Total number of evaluated students: 0

A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Viera Švihrová, CSc.

Last change: 06.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚSLME/J-S-VL-577/19	Course title: Forensic Medicine and Medical Legislative
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.ÚPA/J-S-VL-534/17 - Pathological Anatomy (2)	
Course requirements: Exam	
Learning outcomes: Students are able to evaluate various forms of violence towards the human beings, even with the application of marginal forensic disciplines (toxicology, serology, criminalistics, ballistics, biomechanics). After the course of Forensic Medicine the student is well prepared for administrative and practical tasks in medical examination of cadavers and the crime scene. While asked by the police authorities he/she is competent to perform the general overlook of the living persons being suspected of the criminal activity, both as offenders or victims. The information pool of forensic medicine should be applied by the student also in the other medical disciplines.	
Class syllabus: I. Autopsy. II. Forensic thanatology. III. Administrative and practical tasks on the crime scene investigation. IV. Basics of forensic alcoholology and toxicology. V. Forensic traumatology, evaluation and insurance compensation of traumatic accidents VI. Drugs and drug abuse, types of dependencies VII. Medical aspects of traffic accidents, single and double-trace vehicles VIII. Injuries caused by firearms, explosives	
Recommended literature: Buris, L.: Forensic Medicine. Springer Vrlg., 1993, 416 pp DiMaio, V.J., DiMaio, D.: Forensic Pathology, CRC Press, Washington, D.C., 2001, 565 pp	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 478						
A	ABS0	B	C	D	E	FX
43,72	0,0	32,85	12,76	7,95	2,72	0,0
Lecturers: prof. MUDr. Ľubomír Straka, PhD., doc. MUDr. Jozef Krajčovič, PhD., doc. MUDr. Martin Janík, PhD., prof. MUDr. František Novomeský, PhD., MUDr. Veronika Rybárová, PhD.						
Last change: 07.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.KDTBC/J-S-VL-615/19		Course title: Functional Examination of Lungs in Childhood				
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 9.						
Educational level: I.II.						
Prerequisites:						
Course requirements: Lectures and practicals attendance /minim. 80%/, final oral exam						
Learning outcomes: After subject completion student acquires basic information about pulmonary function testing in childhood, is able to evaluate ventilation parameters, bronchoprovocation tests, indentify ventilation disorders, evaluate exhaled air analysis						
Class syllabus: 1. Definition of ventilation parameters 2. Evaluation of flow-volume loop 3. Bronchoprovocation test 4. Bronchodilatation tests 5. Bodyplethysmography, Diffusion capacity 6. Exhaled air analysis						
Recommended literature: 1. FIŠEROVÁ, J., CHLUMSKÝ, J., SATINSKÁ, J. A KOL. Funkční vyšetření plic. Praha: GEUM, 2004. ISBN 80-86256-38-3. 2. KRIŠTÚFEK, P. a kol. Praktická respirológia a fťizeológia. Bratislava: Osveta, 2000. ISBN 80-8063-044-5. 3. FÁBRY, J. Funkčné vyšetrenie pľúc u detí. In: OROSOVÁ, J. a kol. Pneumológia, pneumoonkológia a hrudníková chirurgia. Bratislava: Infoma, 2011. ISBN 978-80-89087-52-5. s. 123-128. 4. FÁBRY, J., KUBICOVÁ, Z., RAČEKOVÁ, E. Prínos funkčného vyšetrenia pľúc v detskej pneumonologickej praxi. Lekársky Obzor, roč. 55, č. 1-2 (2006), s. 23-32.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: MUDr. Jaroslav Fábry, PhD.						

Last change: 28.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/J-S-VL-591/22	Course title: General Medicine and Practice at General Practitioner
Educational activities: Type of activities: lecture Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Internal medicine 3, Pediatrics 1	
Course requirements: EN The condition for successful completion of the course and obtaining credit is participation in practical exercises, which students attend directly in practice, ie. in non-state medical outpatient clinics (general practitioner and general practitioner for children and adolescents - PLDD). Scale of assessment (preliminary/final): monitoring activity in practical exercises and writing case reports	
Learning outcomes:	
Class syllabus: History of paediatrics and general medicine. Basic terms. PLDD and general practice management for adults. Diagnosis and treatment of a patient in a PLDD outpatient clinic and general practitioner - from symptoms and syndrome to diagnosis (diagnostics, differential diagnosis, therapeutic options, etc.) Specific work of PLDD doctor and general practitioner - preventive examinations, vaccination, diagnostics, pre-hospital medical care, LSPP, visiting service, field work, occupational health care, incapacity, cooperation with the Social Insurance Agency, ÚPSaR. Acute conditions in ambulance PLDD and general practitioner. Keeping medical records in PLDD and general practitioners, examination of dead, assessment of possession of weapons and ammunition, SBS, ability to drive a motor vehicle, cooperation with police. Electronic Healthcare.	
Recommended literature: Robert Rakel David Rakel: Textbook of Family Medicine 9th Edition,2015,ISBN: 9780323239905 eBook ISBN: 9780323340939	
Languages necessary to complete the course: English language	
Notes:	

Past grade distribution	
Total number of evaluated students: 191	
ABS0	M
100,0	0,0
Lecturers: doc. MUDr. Daniela Kantárová, PhD., MPH	
Last change: 08.03.2022	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/J-SVL-SS53/21	Course title: Gynecology and Obstetrics
Number of credits: 3	
Educational level: I.II.	
Recommended prerequisites: Gynecology and obstetrics 3	
Course requirements: Practical and oral state exam. Scale of assessment (preliminary/final): Final.	
Learning outcomes: The student is able to complete the knowledge about gynecological and pediatric diseases, the student can deepen the practical skills of the gynecology and obstetrics principles, knows the principles of everyday care of the gynecological patient and the pregnant female, knows the principles of work on the gynecological and obstetrical clinic and the surgery room.	
Class syllabus: Practical and oral state exam.	
State exam syllabus: Practical and oral state exam.	
Recommended literature: Cunningham, F. et al.: Williams Obstetrics. Williams Obstetrics 26e. McGraw Hill / Medical; 26th edition, 2022, 1328 s., ISBN-13: 978-1260462739. Hoffman, B. et al.: Williams Gynecology. McGraw-Hill / Medical; 4th ed., 2020, 1328 s., ISBN-13: 978-1260456868.	
Languages necessary to complete the course: English.	
Last change: 29.03.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/J-S-VL-562/19	Course title: Gynecology and Obstetrics (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.KVVTCh/J-S-VL-522a/22 - Surgical Propedeutics (2)	
Course requirements: 90% mandatory participation in practical exercises, one afternoon shift (16:00-20:00), and credit test: minimum success rate: 60%. Scale of assessment (preliminary/final): Continuous	
Learning outcomes: Credits	
Class syllabus: Lectures: Diagnosis of pregnancy. Changes in female organism during pregnancy. Fertilization and further development of the fetal egg. Fetal egg at the end of pregnancy. Placental and fetal circulation. Prenatal care (screening). Diet of pregnant women. Drugs and pregnancy. Normal birth - causes. Physiology of uterine activity. Labor phases. Medical management of labor. The management of labor in the home and in extraordinary circumstances. Breech delivery. Surgical methods in breech birth. Preterm labor. Preterm premature rupture of membranes. Amniotic fluid assessment. Intrauterine growth restriction. Diagnosis and treatment of fetal threat during pregnancy and childbirth. Bleeding during pregnancy, labor, and postpartum. Immunological problems in pregnancy. Gestational trophoblastic disease. Pathology of placenta and umbilical cord. Hypertensive disorders in pregnancy. Diabetes mellitus, hematologic disorders, and hepatopathies in pregnancy. Seminars: Anatomy of external and internal genitals, female pelvis, pelvimetry. Basic examination techniques in obstetrics. Amnioscopy, gravidometry, and calculation of due date of delivery. Patient history in gynecology – obstetrics. Spontaneous vaginal delivery. Fetal injury during delivery. Principles of cardiotocography. Puerperium – physiology and pathology. Ultrasound in gynecology and obstetrics. Emergency situations in obstetrics - differential diagnosis. Operative obstetrics (Caesarean section, forceps, vacuum extraction and versions). Labor analgesia and anesthesia. Prenatal genetic counselling.	
Recommended literature: Cunningham, F. et al.: Williams Obstetrics. Williams Obstetrics 26e. McGraw Hill / Medical; 26th edition, 2022, 1328 s., ISBN-13: 978-1260462739.	

Hoffman, B. et al.: Williams Gynecology. McGraw-Hill / Medical; 4th ed., 2020, 1328 s., ISBN-13: 978-1260456868.

Languages necessary to complete the course:

English

Notes:

Past grade distribution

Total number of evaluated students: 472

A	ABS0	B	C	D	E	FX
97,88	0,21	1,27	0,42	0,21	0,0	0,0

Lecturers: prof. MUDr. Kamil Biringer, PhD., MUDr. Michaela Hrtánková, PhD., MUDr. Zuzana Ondák Laučeková, PhD., prof. MUDr. Erik Kúdela, PhD., MUDr. Jana Siváková, PhD., MUDr. Ivana Chmúrna, PhD., MUDr. Petra Kasajová, PhD.

Last change: 07.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/J-S-VL-563/19	Course title: Gynecology and Obstetrics (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.GPK/J-S-VL-562/19 - Gynecology and Obstetrics (1)	
Course requirements: 90% mandatory participation in practical exercises, one afternoon shift (16:00-20:00), and credit test: minimum success rate: 60%. Scale of assessment (preliminary/final): Continuous	
Learning outcomes: Credits	
Class syllabus: Lectures: Ovarian and menstrual cycles. Breast cycle. Neurohumoral regulation. Periods of a woman's life (newborn to senium). Menstrual cycle disorders. Pediatric gynecology. Endometriosis. Precancerosis of female genital organs. Benign and malignant uterine tumors. Benign and malignant ovarian tumors. Breast diseases. Inflammatory diseases of female genital organs. Acute situations in gynecology. Sterility and infertility. Principles of steroid treatment, contraception. Pelvic pain syndrome. Seminars: Postterm pregnancy. Preinduction and induction of abortion and labor. Multiple pregnancy. Abnormal fetal lie, position and presentation, and labor. Maternal injury in labor and treatment (simulator). Special examination methods in gynecology (simulation center). Diagnostic methods in senology. Pelvic organ prolapse in females.	

Urinary incontinence in females. Tumors of the vulva and vagina.						
Recommended literature: Cunningham, F. et al.: Williams Obstetrics. Williams Obstetrics 26e. McGraw Hill / Medical; 26th edition, 2022, 1328 s., ISBN-13: 978-1260462739. Hoffman, B. et al.: Williams Gynecology. McGraw-Hill / Medical; 4th ed., 2020, 1328 s., ISBN-13: 978-1260456868.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 468						
A	ABS0	B	C	D	E	FX
97,65	0,0	1,5	0,64	0,21	0,0	0,0
Lecturers: prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Erik Kúdela, PhD., MUDr. Michaela Hrtánková, PhD., MUDr. Petra Kasajová, PhD., MUDr. Jana Siváková, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD., MUDr. Tomáš Rokos, PhD.						
Last change: 07.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/J-S-VL-564/22	Course title: Gynecology and Obstetrics (3)
Educational activities: Type of activities: practicals Number of hours: per week: per level/semester: 200s Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 11., 12..	
Educational level: I.II.	
Prerequisites: JLF.GPK/J-S-VL-563/19 - Gynecology and Obstetrics (2) and JLF.GPK/J-S-VL-579/19 - Summer Practice-Gynecology and Obstetrics	
Course requirements: 90% mandatory participation on practical exercises. Scale of assessment (preliminary/final): Continuous.	
Learning outcomes: Total number of students assessed: 100 A: 100%, B: 0 %, C: 0 %, D: 0%, E: 0 %, FX: 0 %, ABS0: 0 %	
Class syllabus: Anatomy and physiology of female genital organs. Female pelvis. Birth canal. Female pelvis in obstetrics. Ovarian and menstrual cycle. Neuro-humoral regulation. Cyclic changes of internal genital organs in female life periods. Special diagnosis in gynecology and obstetrics. Female life periods. Fertilization and next development of fertilized ovum. Changes in female organism during pregnancy. Fetus, umbilical cord, amniotic fluid and placenta at the end of pregnancy. Placental and fetal circulation. Pregnancy diagnosis. Prenatal health care. Diet and life style of pregnant women. Drugs and pregnancy. Normal delivery – causes, physiology of labor, labor phases, management of vaginal delivery. Home labor and labor under extraordinary conditions. Normal puerperium. Basic demographic parameters. Breech delivery. Surgical techniques during breech delivery. Planned parenthood. Contraception. Benign tumors and pre-cancerosis of female genital tract. Malignant tumors of female genital tract. Anticancer strategy. Inflammatory diseases in gynecology. Puerperal infections. Endometriosis. Pelvic pain syndrome. Endoscopy and laser therapy in gynecology. Diseases in pregnancy. Multiple pregnancy. Labor dystocia. Urinary incontinence - diagnosis and treatment. Sterility and infertility. Basics and techniques of assisted reproductive medicine. Ovarian hyperstimulatory syndrome. Premature rupture of membranes. Amniotic fluid assessment. Fetal hypotrophy. Placental pathology. Diagnosis and therapy of threatened fetus during pregnancy and delivery. Immunological problems in pregnancy. Climacteric period. Acute situations in gynecology and obstetrics. Inflammatory diseases of female genital tract. Sacral pain syndrome.	
Recommended literature:	

Cunningham, F. et al.: Williams Obstetrics. Williams Obstetrics 26e. McGraw Hill / Medical; 26th edition, 2022, 1328 s., ISBN-13: 978-1260462739.
Hoffman, B. et al.: Williams Gynecology. McGraw-Hill / Medical; 4th ed., 2020, 1328 s., ISBN-13: 978-1260456868.

Languages necessary to complete the course:
English.

Notes:

Past grade distribution

Total number of evaluated students: 177

A	ABS0	B	C	D	E	FX
69,49	0,56	20,9	5,08	3,39	0,56	0,0

Lecturers: prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Erik Kúdela, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Petra Kasajová, PhD., MUDr. Jana Siváková, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD., MUDr. Tomáš Rokos, PhD.

Last change: 07.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHT/J-S-VL-565/19	Course title: Hematology and Transfusiology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-540/18 - Internal Medicine (2) and JLF.IKG/J-S-VL-538/17 - Internal Medicine Propedeutics (2)	
Course requirements: Student must complete at least 80% of prescribed period of training. Absences from classes must be duly excused. Assessment of students is performed by written form - test with 10-20 questions; student is required to achieve for success $\geq 60\%$. Scale of assessment (preliminary/final): continuous	
Learning outcomes: After completion of the Hematology and transfusiology the student gets practical and well arranged information about hematologic and hematooncologic diseases, is informed about possible changes in blood count and hemostatic system of hematologic and hematooncologic patients, understands pathomechanism of selected disorders, gains knowledge about examination of patient with hematologic disease and medical record writing, is able to propound the algorithm of basic laboratory and other examinations, to make differential diagnosis and knows the basic principles of treatment. Student obtains information about the routine practice in hematological laboratories, acquires knowledge about blood groups and transfusion service. Completion of the Hematology and transfusiology contributes to formation of the students ethical approach to patients with hematologic and hematooncologic diseases.	
Class syllabus: - Anaemia: Definition of the anaemic syndrome, classification, morphologic and pathophysiologic criteria, clinical and laboratory findings in patients with anaemia, diagnostics of anaemia; iron deficiency anaemia, megaloblastic anaemia, hemolytic anaemia, anaemia of chronic diseases, dif.dg. approach to microcytic, macrocytic and normocytic anaemias, treatment of anaemia. Blood count and blood smear - anizocytosis, poikilocytosis, hypochromic red blood cells. - Disorders of hemostasis: Physiology of hemostasis, primary hemostasis, hemocoagulation, fibrinolysis. Basic examination of hemostasis, importance of coagulation tests - APTT, PT, TT and platelet count examination, bleeding time, D-dimers, fibrinolytic activity, natural inhibitors of hemostasis, antiphospholipid antibodies, value of PCR in diagnostics of gene polymorphisms. Bleeding disorders: pathophysiology, classification, diagnostics, dif.dg. and	

treatment. Thrombophilia: definition, arterial and venous thrombosis, the most common thrombophilic states, resistance to activated protein C (factor V Leiden), prothrombin gene mutation, hyperhomocysteinaemia, deficiency of natural inhibitors of coagulation, sticky platelet syndrome, diagnostics and treatment of thrombophilia, National registry of thrombophilic states, care about patient with thrombophilia

- Leukaemia: Definition, acute and chronic leukaemias, myeloblastic and lymphoblastic leukaemias, FAB a WHO classification of acute leukaemias, clinical and laboratory findings - cytology, flow cytometry, cytogenetics and histology of bone marrow, demonstration of bone marrow examination procedure (bone marrow aspiration and trephine biopsy), dif. dg, myelodysplastic syndrome (MDS) and aplastic anaemia, treatment of leukaemia - chemotherapy (induction, consolidation, intensification), bone marrow transplantation, supportive care, definition or leukaemia relapse and remission.

- Malignant lymphomas (ML): Definition, Hodgkin and non-Hodgkin lymphoma, B- and T-cell lymphomas, clinical findings, histological diagnostics (biopsy of lymph node, extranodal tissue and bone marrow), importance of laboratory tests and oncomarkers, role of ultrasound, X-ray, CT, MRI and PET-CT examinations in diagnostics, staging and re-staging of ML, indolent and aggressive ML, extranodal lymphoma, multiple myeloma, role of chemotherapy, immunotherapy, irradiation and stem cell transplantation in treatment of ML, IPI - international prognostic index for ML.

- Myeloproliferative neoplasms (MPN): Definition and classification of MPN, clinical and laboratory characteristics, definition of individual diseases - polycythemia vera, essential thrombocythosis, primary myelofibrosis, chronic myelogenous leukaemia, diagnostics and dif.dg. of MPN, current treatment possibilities and prognosis of MPN.

- Transfusiology: Definition of blood transfusion, blood groups, blood donating, transfusion service in SR, administration of blood products, compatibility test, bed-side test, biological exam, indications for treatment with blood products and blood-based derivatives, storage and examinations of blood products, visit of hematological laboratory and blood bank - demonstration of blood group testing and compatibility test examination. Practical administration of blood product (bed-side test, biological exam), post-transfusion reaction and its treatment.

Recommended literature:

1. Metha A.B. et al. Haematology at a glance. 4th ed., Hoboken, Wiley-Blackwell, 2014. 136 s. ISBN 978-1-118-73467-4

2. Provan D. ABC of Clinical Haematology. 4th ed., Wiley-Blackwell, 2018. 112 s. ISBN 978-1-118-89234-3

3. Fauci J. et al. Harrison's Principles of Internal Medicine. 20th ed. New York: McGraw-Hill, 2018.

2800 s. ISBN 1259644030

4. Keohane E.M. et al. Rodak's Hematology: Clinical Principles and Applications. 5th ed.. Philadelphia: Saunders, 2015. 912 s. ISBN 0323239064

5. Rodgers G.P. et al. The Bethesda Handbook of Clinical Hematology. 4th ed. Philadelphia: Lippincott Williams & Wilkins, 2018. 576 s. ISBN 978-1-49-635400-6

6. Abraham J. et al. The Bethesda Handbook of Clinical Oncology. 5th ed. Philadelphia: Lippincott Williams

& Wilkins, 2018. 800 s. ISBN 1496344189

7. Anderson S et al. Anderson's Atlas of Hematology. 3rd ed. Philadelphia: Lippincott Williams & Wilkins, 2021. 614 s. ISBN 9781975118259

8. Rodak B.F. et al. Clinical Hematology Atlas. 3rd ed. Philadelphia: Saunders, 2015. 296 s. ISBN 9780323322492

9. Greer J.P. et al. Wintrobe's Clinical Hematology. 14th ed. Philadelphia: Lippincott Williams & Wilkins, 2018. 2432 s. ISBN 9781496347428

10. Kaushansky K. et al. William's Hematology. 10th ed. New York: McGraw-Hill Professional, 2014. 2460 s. ISBN 9781260464122 11. McKenzie S.B. et al. Clinical Laboratory Hematology. 4th ed. London: Pearson, 2020. 1264 s. ISBN 9780134709390						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 462						
A	ABS0	B	C	D	E	FX
51,08	0,0	32,68	11,69	3,03	1,52	0,0
Lecturers: prof. MUDr. Ján Staško, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Jan Hudeček, CSc., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., MPH, RNDr. Jana Žolková, PhD., MUDr. Pavol Hollý, PhD., Ing. Ingrid Škorňová, PhD.						
Last change: 12.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHT/J-S-VL-636/20	Course title: Hemostasis – Vascular Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 1 per level/semester: 7 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Internal disease II	
Course requirements: Student must complete 100% of prescribed period of training and prepare semestral work. Scale of assessment (preliminary/final): continuous	
Learning outcomes: By completing the course, the student will gain knowledge about advances in the diagnosis and treatment of congenital and acquired disorders of hemostasis as well as in the diagnosis and treatment of serious cardiovascular and cerebrovascular diseases. By the end of this course, students will be able to identify risk factors and clinical manifestations of these diseases. Emphasis is also placed on innovative diagnostic and therapeutic procedures.	
Class syllabus: <ul style="list-style-type: none"> - Characteristics of terms and meaning of hemostasis disorders and vascular diseases - Overview of the pathophysiology of hemostasis disorders, cardiovascular and cerebrovascular diseases - Characteristics of the most important risk factors and clinical manifestations of hemostasis disorders, cardiovascular and cerebrovascular diseases - Advances in the diagnosis and treatment of hemostasis disorders and innovations in the diagnosis and treatment of cardiovascular and cerebrovascular diseases - Practical examples of innovations in the diagnosis and treatment of selected disorders of hemostasis and vascular diseases in hematology, hematooncology, angiology, vascular surgery, cardiology and neurology 	
Recommended literature: <ol style="list-style-type: none"> 1. Fauci, J. et al. Harrison Principles of Internal Medicine. 20th Edition, New York: McGraw – Hill, 2018. 2800 pp. ISBN 1259644030. 2. Rodgers, G.P. et al. The Bethesda Handbook of Clinical Hematology. 4th Edition, Philadelphia: Lippincott Williams & Wilkins, 2018. 576 pp. ISBN 978-1-49-635400-6. 	

3. Creager M et al. Vascular Medicine: A Companion to Braunwald's Heart Disease. 3rd Edition, Elsevier Saunders, 2020. 920 pp. ISBN 9780323636001.
4. Touyz RM et al. Textbook of Vascular Medicine. 1st Edition, Springer Nature Switzerland. 102 pp. ISBN 978-3-030-16481-2.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 0

A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Ján Staško, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Jan Hudeček, CSc., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., MPH, RNDr. Jana Žolková, PhD.

Last change: 09.10.2021

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚHE/J-S-VL-505/15	Course title: Histology and Embryology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 2 per level/semester: 56 / 28 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: - Student actively participates in 93% of all practical classes (a student is allowed to miss out one practical for serious reason). - Forms of knowledge control: 1. discussion by microscope – description of histological slides (in case that student is not able to discuss histomorphology of basic human tissues in question, he/she will be asked to substitute the session in the last compensatory week), 2. student is required to pass 4 written tests (including multiple choice questions with one correct answer; TRUE/FALSE questions; diagram description), minimum percentage to pass each test is 70%, 3. practical (credit exam) – to identify and describe 2 human tissue slides (discussion and final result on responsibility of teacher). Evaluated A-Fx. Scale of assessment (preliminary/final): 20/80	
Learning outcomes: After completion of the subject, the student understands routine work with light microscope and is able to orient in basic staining methods (e.g. HE, Giemsa, PAS, Gomori, Orcein, Cajal, Oil red, Luxol blue, Anilin blue, Trichrom). Students understand histological terminology. Based on theoretical knowledge, student is able to identify microscopically main human tissues including their differential diagnosis and to discuss the topic in question (epithelium, connective tissue, cartilage, bone, muscles, nervous tissues, bone marrow and blood). Student is able to apply histomorphological knowledge in functional histology of organs and systems, e.g. functional histology of gland epithelium, muscle contraction, bone marrow cell production. Along with it, student understands the connection of histology and embryology with other medical branches such as biology, physiology, pathological physiology and pathological anatomy.	
Class syllabus: - Introduction to histology and embryology, role of histology and embryology in medical study. Cell in light microscopy and electron microscopy (review). - Functional histology of epithelial tissue I and II - covering and glandular epithelia, clinical correlations.	

- Functional histology of supporting / connective tissues - cells, extracellular matrix, fibers, types of connective tissues, clinical correlations.
- Functional histology of skeletal tissues - cartilages and bones, clinical correlations.
- Functional histology of bone marrow, peripheral blood, composition of plasma, stem cell, haematopoiesis topography, reactive elements, interstitium, clinical correlations.
- Functional histology of muscles - general characteristics, types of muscles, mechanism of contraction, connective tissue associated with muscles, regeneration of muscles, clinical correlations.
- Functional histology of nervous tissues - neuron synapses, division of nervous system, white and gray matter, degeneration and regeneration, clinical correlations.
- Central and peripheral nervous system - embryology, meninges and spaces, cerebrum, cerebellum, spinal cord, peripheral nerves, functional histology of CNS and PNS, cerebrospinal fluid, clinical correlations.
- Cardiovascular system I - embryology, general organization, structure of heart wall – endocard, myocard, epicard, conducting system, clinical correlations.
- Cardiovascular system II - embryology, arteries, veins, capillaries, lymphatics, clinical correlations.
- Lymphoid system - embryology, classification of lymphocytes, primary and secondary lymphatic organs and tissues, functional histology of thymus, lymph node, spleen, and tonsil, clinical correlations.
- Differential diagnosis of human tissues and organs.

Recommended literature:

Adamkov M., Hurta Csizmár S.: Introduction to Functional Histology, Textbook, 5th Revised and Update Edition, Vydavateľstvo P+M, s.r.o., Turany, 2024, 410 s. ISBN 978-80-89410-80-4

Mescher A.L.: Junqueira's basic histology: Text and Atlas. McGraw-Hill Education, 2018, 576 p. ISBN 1260026175

Sadler T.W.: Langman's Medical Embryology. Wolters Kluwer, 2019, 432 p. ISBN 978149638907

Gartner, L.P.: Color Atlas and Text of Histology. Lippincott Williams and Wilkins, 2017, 544 p. ISBN 1496346734

Moore, K.L., Persaud T.V.N., Torchia M.G.: Before we are born (Essentials of Embryology and Birth Defects). Elsevier, 2019, 350 p. ISBN 9780323608497

Ovalle W., Nahirney P.: Netter's Essential Histology, 3rd edition. Elsevier, 2020, 568 p. ISBN 978-0-3236-9464-3

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 1166

A	ABS0	B	C	D	E	FX
39,45	0,17	28,64	18,35	9,61	3,77	0,0

Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Báľentová, PhD., doc. RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., Ing. Veronika Cígerová, PhD., prof. RNDr. Peter Kubatka, PhD., RNDr. Lenka Lacková, PhD.

Last change: 13.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚHE/J-S-VL-506/16	Course title: Histology and Embryology (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 7	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚHE/J-S-VL-505/15 - Histology and Embryology (1)	
Course requirements: - Student actively participates in 93% of all practical classes (a student is allowed to miss out one practical for serious reason). - Forms of knowledge control: 1. discussion by microscope – description of histological slides (in case that student is not able to discuss histomorphology of basic human tissues in question, he/she will be asked to substitute the session in the last compensatory week), 2. student is required to pass 4 written tests (including multiple choice questions with one correct answer; TRUE/FALSE questions; diagram description), minimum percentage to pass each test is 70%, 3. practical (credit exam) – to identify and describe 2 human tissues slides (discussion and final result on responsibility of teacher). The exam in Histology and Embryology includes 2 parts : - practical part - 3 slides (to pass at least two of them – well founded description and discussion), - oral part - 3 exam questions (general histology / cytology, organ functional histology, and embryology). Evaluated: A-Fx Scale of assessment (preliminary/final): 20/80	
Learning outcomes: Students who successfully complete this course is able to identify microscopically main organs and tissues of all human systems and describe their salient histomorphological features in association with characteristic functions. Student understands differential diagnosis between microscopically similar organs of human system (e.g. stomach vs. intestine, cerebral vs. cerebellar cortex, adenohypophysis vs. neurohypophysis). Based on functional histology, student better understands principles of physiological and pathological processes and changes in human tissues and organs. Student should understand a complex dynamics of human being development from gametogenesis to delivery in phylogenetic and ontogenetic relations. The goal is to provide students with an understanding of the principles of embryogenesis that can be used in the diagnosis, care and prevention of birth defects.	

Class syllabus:

- Digestive system I, oral cavity - embryology, epithelial lining, tongue, development of tooth, structure of tooth and associated structures, clinical correlations.
- Digestive system II, alimentary canal - embryology, pharynx, esophagus, stomach, small and large intestines, appendix, anus, GALT system, clinical correlations.
- Digestive system III, glands - embryology, types of secretory cells, salivary glands, saliva, liver, gallbladder, pancreas, clinical correlations.
- Respiratory system - embryology, general organization and subdivision, upper portion, trachea, bronchial tree, respiratory portion, BAL, clinical correlations.
- Endocrine system - embryology, principles of endocrine glands, hormones classification, functional histology of hypothalamus, adenohypophysis and neurohypophysis, thyroid gland, parathyroid glands, adrenal glands, and Langerhans islets, clinical correlations.
- Urinary system - embryology, composition of urinary system, functional histology of kidney, blood circulation, histological structure of ureter, urinary bladder, and urethra, clinical correlations.
- Reproductive systems - embryology, general characteristics of male reproductive system, structure and functions of testes, excretory genital ducts, accessory glands, clinical correlations. General characteristic of female reproductive system – structure and functions of ovaries, uterus, including cervix, uterine tube, and vagina, clinical correlations.
- Skin - embryology, general structure of skin, functional histology of epidermis, including basal lamina, dermis, and hypodermis, structure and functions of epidermal derivatives, wound healing, clinical correlations.
- Breast - embryology, functional histology of inactive (resting) mammary gland, during pregnancy, and during lactation, milk, hormone regulations, clinical correlations.
- Differential diagnosis of human tissues and organs.
- Apoptosis - general characteristics, pathways, regulations, main histomorphological, biochemical, and physiological features, role in normal and pathological tissues, clinical correlations.
- Principles of immunohistochemistry, antigens, antibodies, CD system, application in differential diagnosis of normal and pathological human tissues, clinical correlations.
- Gametogenesis - spermatogenesis and spermiogenesis, functional histology of sperm, spermatogenesis, oogenesis, functional histology of ovum, ovulation, corpus luteum, clinical correlations.
- Fertilization - phases of fertilization, zygote, development of blastocyst, causes of infertility, clinical correlations.
- Menstrual cycle - functional histology of endometrium, phases of menstrual cycle, preparation of endometrium for implantation.
- Implantation - phases of implantation, decidual reaction, simultaneous development of conceptus, clinical correlations.
- Placenta - development of placenta, functional histology of placenta, utero-placental membrane and permeability, clinical correlations.
- Embryonal and fetal period of development, birth defects (review).

Recommended literature:

Adamkov M., Hurta Csizmár S.: Introduction to Functional Histology, Textbook, 5th Revised and Update Edition, Vydavateľstvo P+M, s.r.o., Turany, 2024, 410 s. ISBN 978-80-89410-80-4

Mescher A.L.: Junqueira's basic histology: Text and Atlas. McGraw-Hill Education, 2018, 576 p. ISBN 1260026175

Sadler T.W.: Langman's Medical Embryology. Wolters Kluwer, 2019, 432 p. ISBN 978149638907

Gartner, L.P.: Color Atlas and Text of Histology. Lippincott Williams and Wilkins, 2017, 544 p. ISBN 1496346734

Moore, K.L., Persaund T.V.N., Torchia M.G.: Before we are born (Essentials of Embryology and Birth Defects). Elsevier, 2019, 350 p. ISBN 9780323608497
 Ovalle W., Nahirney P.: Netter's Essential Histology, 3rd edition. Elsevier, 2020, 568 p. ISBN 978-0-3236-9464-3

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 919

A	ABS0	B	C	D	E	FX
19,37	0,0	18,28	24,48	16,54	14,15	7,18

Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Báľentová, PhD., doc. RNDr. Mária Kovalská, PhD., RNDr. Veronika Mešťanová, PhD., Ing. Veronika Cígerová, PhD., prof. RNDr. Peter Kubatka, PhD., RNDr. Lenka Lacková, PhD.

Last change: 13.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚSLME/J-S-VL-641/22	Course title: Hyperbaric and diving medicine
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 90% participation in seminars	
Learning outcomes: The graduate of the course of hyperbaric and diving medicine masters: <ul style="list-style-type: none"> • principles of treatment of the patient in an environment of increased atmospheric pressure (hyperbaric chamber), • physical gas laws and the benefit of oxygen breathing in overpressure, • clinical indications and contraindications of hyperbaric therapy, • basics of technical construction of hyperbaric chambers, • principles of handling compressed gases and the principles of occupational safety in the hyperbaric chamber, • pathology and clinics of divers' health disorders, their treatment on-site, in hyperbaric chamber (decompression procedures). 	
Class syllabus: The hyperbaric treatment (past and today). Biophysical aspects of hyperbaric therapy (physics of gases, O ₂ , N ₂ , He, CO ₂ in hyperbaric therapy, breathing of gases in elevated pressure). Technical aspects of hyperbaric therapy (construction of hyperbaric chambers, HP cylinders, colour coding, storage, safe manipulation, gas analysis, HP compressors). Clinical aspects of hyperbaric therapy (indications, contraindications, management of hyperbaric treatment). Standard use of hyperbaric chamber in daily practice (practical demonstration). Accidents in hyperbaric chambers (loss of pressure, explosive decompression, fire in a chamber). Complications and delayed effects of hyperbaric therapy (patients, medical staff), death in hyperbaric chamber, medicolegal procedures. Fundamentals of diving medicine (fitness to dive, organizations of diver's health care, diving accidents, on-site medical assistance in the dive accident, medicolegal procedures in diver's death.	
Recommended literature: Novomeský, F. and Toklu A.S. Fundamentals of diving medicine. Martin: Osveta Publ., 2021, s. 354, ISBN 9788080635008	

Harch, P.G., McCullough, V. The oxygen revolution. Hyperbaric oxygen therapy. 3rd ed. New York: Hatherleigh Press, 2016, s. 336, ISBN 9781578266272

Languages necessary to complete the course:

English language

Notes:

winter semester, minimum number of students: 5, maximum number of students: 20

Past grade distribution

Total number of evaluated students: 13

A	ABS0	B	C	D	E	FX
0,0	100,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. František Novomeský, PhD., prof. MUDr. Ľubomír Straka, PhD., MUDr. Veronika Rybárová, PhD.

Last change: 18.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMI/J-S-VL-603/19	Course title: Immunology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBI/J-S-VL-513/22 - Medical Biology and Genetics (2)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - 1 test during the semester - 2 oral presentations according the schedule Exam: Written exam test or oral exam. Written exam test - The final grade is determined by counting the points for the test during semester and the final exam test. Oral exam - The oral exam consists of 4 questions. Each one is evaluated separatly. No question could be graduated Fx for successfull exam. Scale of assessment (preliminary/final): 25% / 75%	
Learning outcomes: The student receives information from specific and nonspecific immunity, immune commpetent cells, mechanisms of regulation of immune answer. The student is able to characterise the antigens, their structure and immunogenic potential as well as immunoglobulins, their function, mechanisms of antibody production, idiotypes, allotypes, isotypes. The reached knowledges enable to understand the problems of vaccination, types of vaccines, hypersensitivity, autoimmunity and immunodeficiecies. Transplantation and tumor immunity are covered at introductional level. The students are able to understand, indicate and interpret the basical immunological diagnostical tests and procedures. The gained information are the base for the further study of in different clinical branches, that can be completed in the study of clinical immunology in the 10th semester.	
Class syllabus: Introduction to immunology, Discrimination between self and non self, Antigens a receptors, Terminology, Nonspecific immunity – barriers, cells, mechanism and functions, Specific immunity – molecules, immunoglobulins, organs and cells differenciation, Lymphocytes –, activation, APC Regulation of immunity , cytokines Tumor immunity, Transplantation immunity, Hypersensitivity, Immunotherapy, Immunostimulation, IDS, Antiinfective immunity	
Recommended literature: Abbas AK et al. Basic Immunology . Elsevier Saunders 2012, pp. 320. Doan T et al. Lippincott’s Illustrated Review Immunology. Lippincot Williams §Wilkins a Wolters Kluwer business 2008, pp. 334.	

Neuschlová, M., Kompaníková, J., Sadloňová, V., Nováková, E.: Immunology – basic laboratory tests. Martin : Portal JLF UK 2021; 152 s. ISBN 978-80-8187-110-8. <https://portal.jfmed.uniba.sk//articles.php?aid=450>.

Neuschlová, M., Nováková, E., Kompaníková, J., Sadloňová, V.: A to Z Glossary of Immunological Terms. Martin : Portal JLF UK 2021; 80 s. ISBN 978-80-8187-088-0. <https://portal.jfmed.uniba.sk//articles.php?aid=435>.

Murray PR et al. Medical Microbiology Seventh Edition. Philadelphia: Elsevier Saunders 2013; pp. 874.

Greenwood D et al. Medical Microbiology Eighteenth Edition. Edinburgh: Elsevier Saunders 2012; pp. 778.

Reading from MEFANET and faculty web site for immunology.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 542

A	ABS0	B	C	D	E	FX
32,1	0,0	31,73	25,46	7,93	2,77	0,0

Lecturers: doc. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., doc. MUDr. Vladimíra Sadloňová, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KICM/J-S-VL-567/19	Course title: Infectology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 1 per level/semester: 42 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ÚFa/J-S-VL-530/21 - Pharmacology (2) and JLF.ÚMI/J-S-VL-518/17 - Microbiology (2) and JLF.IKG/J-S-VL-538/17 - Internal Medicine Propedeutics (2)	
Course requirements: Assessment of students takes place in the form of a credit test and an oral exam. Upon successful completion of the credit test (Assessment: A 91 - 100%, B 81 - 90%, C 73 - 80%, D 66 - 72%, E 60 - 65%, Fx < 60%), the student will be admitted to oral exam. Scale of assessment (preliminary/final): 1/3 S	
Learning outcomes: After course student understand of the basic characteristics of infectious diseases, transmission, clinical manifestation, diagnosis, differential diagnosis, treatment and prophylaxis.	
Class syllabus: Lectures: Viral hepatitis syndrome Hospital acquired infection Neuroinfections COVID-19 Intestinal infections Viral haemorrhagic fevers and other arbovirosis HIV Seminars: 1. Introduction to the Infectology 2. Antiinfectious therapy 3. Meningoencephalitis and meningitis 4. Exanthematous diseases 5. Lymph-nodes enlargement syndrome 6. Acute gastroenteritis 7. Selected parasitic infections 8. Sepsis 9. Zoonosis 10. Infections caused by herpes viruses	

11. Travel medicine 12. SSTIS 13. Bone and joint infections						
Recommended literature: Hobstová, J.: Infekčné choroby. Karolinum Praha, 2003, 1. vydanie, 259s. Bannister, B.: Infekčné choroby. Blackwell Science. 2000, 2 vydanie, 484s						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 461						
A	ABS0	B	C	D	E	FX
57,48	0,0	20,17	11,93	4,99	4,56	0,87
Lecturers: doc. MUDr. Katarína Šimeková, PhD., MUDr. Róbert Rosolanka, PhD.						
Last change: 09.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDAIM/J-S-VL-611/19	Course title: Intensive Medicine in Pediatrics
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Attendance of all practical lectures and lectures. Successful accomplishment of the practical part of simulation sessions(patient choking by foreign body/object, orotracheal intubation, thoracic drainage, CVC and PICC insertion, Basic and advance Cardio-pulmonary resuscitation). For A grades, it is necessary to have a success rate of more than 90% in the practical part, For B grades it is necessary to have a success rate in the practical part of 80-89%, For the evaluation C it is necessary to have a success rate in the practical part of 70-79%, For evaluation D it is necessary to have a success rate in the practical part of 60-69%, For the evaluation of E it is necessary to have a success rate in the practical part of 50-59%, Credits will not be awarded to a student who has a success rate in the practical part below 50%.	
Learning outcomes: Student by particpance in a particular subject will obtain basic information about the diagnosis, differential diagnosis and therapeutical quidelines for critical cases they are common in Pediatric Intensive Care and Resuscitation. After repetitive practical simulation sessions participant will be able to apply an appropriate knowledge and she/he will be able to solve some urgent situation independently, such as Basic and Advanced Cardio-pulmonary resuscitation in children all ages; treat urgent situations such as tension pneumotorax, foreign body aspiration, secure the airways by supra and subglottis equipment (laryngeal mask and orotracheal intubation), secure CVC, AC and PICC insertion. As an addition a participant will become familiar with basics of pulmonary ventilation , specifically more devoted to protective regimens of pulmonary ventilation. The biggest benefit for each participant is probably becoming familiar and more skilled in various manual medical procedures.	
Class syllabus: Introduction into Study of Pediatric Intensive Care and Resuscitation Care. Basic and Advanced Cardio-pulmonary resuscitation. ARDS pathophysiology. Basics of Artificial Pulmonary Ventilation in Pediatrics. Specificity of protective ventilation. Open lung tool strategy. Pathophysiology, clinical onset and therapeutical possibilities in managing of foreign body aspiration in pediatrics. Pathophysiology, clinical onset and therapeutical possibilities in managing of tension pneumotorax in pediatrics. Central venous cathethers, arterial catheters, peripheral	

inserted central venous catheters, intraosseal needles in pediatrics. Supraglottic and Subglottis method of securing opened airways in pediatrics.						
Recommended literature: European resuscitation council guidelines for resuscitation 2021. internetový zdroj Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s.						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 19						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. MUDr. Slavomír Nosál', PhD.						
Last change: 15.03.2022						
Approved by:						

STATE EXAM DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/J-SVL-SS52/21	Course title: Internal Medicine
Number of credits: 7	
Educational level: I.II.	
Course requirements: State final examination may be performed by student who completes the 100% of pre-state practice.	
Learning outcomes: Completion of training the student gains general informations-knowledge and practical skills from the whole area of internal diseases. The aim is to graduate syllabus can cope with patients in various conditions, able to apply theoretical knowledge, to analyse down working diagnosis, to plan the examinations and to recommend appropriated treatment	
Class syllabus: State exam consists of practical exam (medical record) and oral exam (2 theoretical questions). The practical part of state exam: Student will select one of the particular department JFMCU (Department of internal medicine I., Department of internal medicine – gastroenterology, Department of occupational medicine and toxicology, Department of pneumology and phthisiology, Department of hematology and transfusiology).usually the day before the date of the theoretical part where the student will perform practical part according to instructions of the responsible teacher. The practical part includes complete examination of the patient and processing the medical record (taking history, objective investigation, differential diagnosis, proposal examinations and treatment). The theoretical part of state exam: It will take place at the departments (Department of internal medicine I., Department of internal medicine – gastroenterology) before Examining board. Student will select by lot 2 theoretical questions from designated areas. After answering all questions and considering the result of the practical exam, the final evaluation will be recommended to the chairman by the members of the Examining board. Questions: A1 Chest pain - differential diagnosis. A2 Dyspnoe - differential diagnosis. A3 Oedema - differential diagnosis. A4 Unconsciousness (syncopes, coma) - cause, differential diagnosis, therapy. A5 Cardiac arrest. Principles of cardiopulmocerebral resuscitation. A6 Diagnostic methods in cardiology. A7 Acute heart failure - pathogenesis, symptoms, therapy. A8 Chronic heart failure - pathogenesis, symptoms, diagnostic methods, treatment. A9 Arrhythmias (abnormalities of automacity and conduction) - classification, clinical features, diagnostic methods, therapy. A10 Chronic ischemic heart disease.	

- A11 Acute coronary syndrome. Myocardial infarction.
- A12 Inflammatory heart diseases (endocarditis, myocarditis, pericarditis).
- A13 Cardiomyopathies - classification, clinical features, differential diagnosis, therapy.
- A14 Mitral valve diseases - etiopathogenesis, clinical features, diagnosis, therapy.
- A15 Aortic valve diseases - etiopathogenesis, clinical features, diagnosis, therapy.
- A16 Arterial hypertension - epidemiology, etiopathogenesis, classification, clinical features, diagnosis, therapy.
- A17 Secondary hypertension - epidemiology, etiopathogenesis, clinical features, therapy.
- A18 Hypertensive crisis - causes, clinical features, treatment.
- A19 Peripheral arterial disease of lower extremities.
- A20 Superficial thrombophlebitis, chronic insufficiency of the leg veins.
- A21 Venous thromboembolism.
- A22 Shock - pathogenesis, classification, differential diagnosis, symptoms, therapy.
- A23 Primary and secondary prevention of cardiovascular diseases.
- II
- B1 Cough - etiology, differential diagnosis.
- B2 Hemoptoe - etiology, differential diagnosis, treatment.
- B3 Acute bronchitis, bronchiolitis.
- B4 Chronic obstructive pulmonary disease.
- B5 Bronchial asthma.
- B6 Pneumonia.
- B7 Sarcoidosis.
- B8 Idiopathic interstitial pneumonia.
- B9 Chronic respiratory failure - causes, clinical manifestation, treatment
- B10 Pleural effusion - etiology, differential diagnosis, management.
- B11 Pneumothorax, pleural tumours.
- B12 Diseases of mediastinum.
- B13 Tuberculosis.
- B14 Bronchogenic carcinoma.
- B15 Sleep-related breathing disorders - clinical manifestation, diagnosis, treatment.
- B16 Pneumoconiosis (Silicosis, coal worker pneumoconiosis, asbestosis).
- B17 Hypersensitivity pneumonitis.
- B18 Professional allergic respiratory diseases (extrinsic allergic alveolitis, occupational bronchial asthma).
- III
- C1 Abdominal pain – differential diagnosis.
- C2 General symptoms of diseases of the upper gastrointestinal tract.
- C3 General symptoms of diseases of the lower gastrointestinal tract.
- C4 Gastrointestinal bleeding - causes, differential diagnosis.
- C5 Diagnostic methods in gastroenterology.
- C6 Diseases of oesophagus.
- C7 Inflammatory diseases of stomach.
- C8 Peptic ulcer disease of stomach and duodenum.
- C9 Oesophageal and stomach tumours.
- C10 Malabsorption syndrome, celiac disease.
- C11 Idiopathic inflammatory bowel diseases.
- C12 Functional disorders of gastrointestinal tract.

- C13 Tumours of the colon and rectum.
- C14 Jaundice - classification, differential diagnosis.
- C15 Hepatomegaly and splenomegaly – etiopathogenesis, differential diagnosis.
- C16 Portal hypertension. Ascites - etiopathogenesis, differential diagnosis, treatment.
- C17 Hepatic coma - pathophysiology, clinical manifestation, therapy.
- C18 Acute and chronic hepatitis. Toxic damage of the liver.
- C19 Cirrhosis of the liver.
- C20 Diseases of gallbladder and biliary tract.
- C21 Hepatic and biliary tumours.
- C22 Tumours of pancreas.
- C23 Acute pancreatitis.
- C24 Chronic pancreatitis.

IV

- D1 Functional and morphological examinations of the kidney.
- D2 Proteinuria, haematuria, leucocyturia - differential diagnosis.
- D3 Acute kidney injury and chronic kidney disease (Acute and chronic renal insufficiency).
- D4 Acute and chronic glomerulonephritis.
- D5 Tubulointerstitial nephritis.
- D6 Nephrotic syndrome.
- D7 Tumours of kidney and urinary tract.
- D8 Disorders of water metabolism.
- D9 Disorders of mineral metabolism.
- D10 Disorders of acid-base balance (acidosis, alkalosis).
- D11 Poisoning - definition, classification, ways of toxin entry into the body, toxin metabolism, excretion, first aid, general principles of diagnosis and treatment.
- D12 The most common drug poisonings - acetylsalicylic acid, paracetamol, phenobarbital, benzodiazepines, tricyclic antidepressants.
- D13 Poisoning by cocaine, methamphetamine, morphine, cannabinoids.
- D14 Poisoning with methyl alcohol, ethyl alcohol, ethylene glycol.
- D15 Mushroom poisoning.
- D16 Poisoning by organophosphate and carbamate insecticides.
- D17 Diseases from benzene and its homologues.
- D18 Poisoning by CO, hydrogen cyanide and cyanides.
- D19 Heavy metal poisoning - lead (Pb), mercury (Hg), chromium (Cr), arsenic (As).
- D20 Damage by ionizing radiation – acute radiation syndrome, tumours.
- D21 Vibration disease, vasoneurosis - etiopathogenesis, diagnosis and treatment.
- D22 Musculoskeletal disorders from long-term excessive and one-sided loading – etiopathogenesis, diagnosis and treatment.

V

- E1 Diabetes mellitus - epidemiology, etiopathogenesis, classification, clinical manifestations, diagnosis.
- E2 Diabetes mellitus - therapy, prevention.
- E3 Acute and chronic complications of diabetes mellitus.
- E4 Dyslipidaemia.
- E5 Obesity. Metabolic syndrome.
- E6 Gout and hyperuricemic syndrome.
- E7 Disorders of nutrition (undernutrition, cachexia). Principles of parenteral and enteral nutrition.
- E8 Disorders of hypothalamus and hypophysis.

<p>E9 Thyreotoxicosis.</p> <p>E10 Hypothyroidism.</p> <p>E11 Inflammatory and neoplastic diseases of thyroid gland.</p> <p>E12 Diseases of parathyroid glands. Disorders of calcium metabolism.</p> <p>E13 Disorders of adrenal glands.</p> <p>E14 Osteoporosis.</p> <p>E15 Glucocorticoids - indications, contraindications, adverse effects and their prevention.</p> <p>VI</p> <p>F1 Anaemia - diagnostic approach and therapy.</p> <p>F2 Congenital and acquired bleeding conditions.</p> <p>F3 Life-threatening bleeding - basic principles, diagnosis, and treatment.</p> <p>F4 Congenital and acquired thrombophilic conditions.</p> <p>F5 Principles of antithrombotic (thrombolytic, anticoagulant, and antiplatelet) treatment.</p> <p>F6 Myeloproliferative neoplasia.</p> <p>F7 Acute leukaemia, myelodysplastic syndrome and aplastic anaemia.</p> <p>F8 Lymphadenopathy syndrome and lymphoproliferative diseases. Malignant lymphomas.</p> <p>F9 Multiple myeloma.</p> <p>F10 Blood transfusion (indications, contraindications, compatibility, transfusion technique, complications).</p> <p>F11 Rheumatic fever.</p> <p>F12 Rheumatoid arthritis.</p> <p>F13 Systemic diseases of connective tissue (lupus erythematosus).</p> <p>F14 Sepsis.</p> <p>F15 Fever - classification, differential diagnosis.</p> <p>F16 Antibiotics - classification, indications, contraindications.</p> <p>F17 Non-specific and specific symptoms of malignant tumors.</p> <p>F18 Human immunodeficiency virus infection.</p>
State exam syllabus:
<p>Recommended literature:</p> <p>Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022</p> <p>Kumar, P. Clark, M.</p> <p>Kumar and Clark's Clinical Medicine. Philadelphia: Saunders Ltd., 2012, 1352 s.</p> <p>Colledge, N. R. et al.</p> <p>Davidson's Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010, 1376 s.</p> <p>McPhee, S. J., Hammer, G. D.</p> <p>Pathophysiology of Disease And Introduction to Clinical Medicine.</p> <p>Nex York: McGraw-Hill Medical, 2010, 737 s.</p> <p>Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokán M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -winter semester. P+M s.r.o. Turany 2021, 300 s.</p> <p>Samoš M, Bolek T, Bánovčin P, Dedinská I, Sokol J, Staško J Mokán M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -summer semester. P+M s.r.o. Turany 2021, 267 s.</p>
<p>Languages necessary to complete the course:</p> <p>England language</p>
Last change: 13.09.2024
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-539/19	Course title: Internal Medicine (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-537/17 - Internal Medicine Propedeutics (1)	
Course requirements: To obtain credit it is necessary to take part on 6 Practical. 2 credit tests	
Learning outcomes:	
Class syllabus: Lectures 1. Ischemic heart disease. 2. Hypertension. Differential diagnosis of primary and secondary hypertension. 3. Arrhythmias. 4. Systolic and diastolic heart failure. 5. Inflammatory heart diseases (endocarditis, myocarditis, pericarditis). Cardiomyopathies. 6. Most important heart valve disorders (inborn, acquired). Neurocirculatory asthenia. 7. Tromboembolic disease. 8. Diseases of the arteries and veins of the extremities. New trends in the treatment. 9. Bronchial asthma. 10.Chronic obstructive pulmonary disease (COPD). 11.Lung tumors. 12. Diseases of pleura and mediastinum. 13. Sarcoidosis. Fibrosis. Lung mycoses. Parasitary lung diseases. 14. Disorders of the body fluids volume and mineral balance. Disorders of electrolytes and acidobasis balance. Practical lessons: 1. Ischemic heart disease, myocardial infarction. Examination of patient. Evaluation of pathological ECG curves. 2. Hypertension disease - primary, secondary hypertension. Principles of antihypertensive therapy. Examination of the patient. 3. Infammatory heart diseases (endocarditis, myocarditis, pericarditis). Cardiomyopathies. Most important heart valve disorders. Examination of the patient. 4. Systolic and diastolic heart failure. Arrhythmias. Demonstration of the patients. Evaluation of pathological ECG curves. 5. Examination of the patients with diseases of the arteries and veins in the extremities. Peripheral atherosclerosis of lower extremities. Thromboembolic disease. 6. Functional examination of lungs. Practical demonstration. Examination of the patient with chronic bronchitis, asthma bronchiale. 7. Examination of patients with pneumonia and lung tumors.	
Recommended literature:	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 537						
A	ABS0	B	C	D	E	FX
25,7	0,0	44,51	24,39	4,66	0,74	0,0
Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Robert Vyšehradský, PhD., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, doc. MUDr. Ľubomír Skladaný, PhD., MUDr. Jakub Benko, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Ľudovít Šutarík, CSc., MUDr. Martin Jozef Péc						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-540/18	Course title: Internal Medicine (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-538/17 - Internal Medicine Propedeutics (2) and JLF.IKG/J-S-VL-539/19 - Internal Medicine (1)	
Course requirements: Credit tests	
Learning outcomes:	
Class syllabus: Lectures Ulcer disease of stomach and duodenum, etiopathogenesis, clinical signs, complications, functional diagnostics, therapy and life-regimen. Chronic inflammatory and degenerative diseases of liver, cirrhosis and carcinoma of the liver, etiopathogenesis, clinical signs and therapy. Inflammatory and tumorous diseases of the oesophagus, stomach and duodenum. Inflammatory and tumorous diseases of small and large intestine. Diseases of the gallbladder, biliar ducts (lithiasis, inflammatory complications and tumors), inflammatory and tumorous diseases of pancreas. Diseases of the thyroid gland. Diseases of the suprarenal glands. Disorders of protein and aminoacids metabolism. Gout. Porphyria. Metabolic osteopathies. Diabetes mellitus - principles of the diagnostics and therapy. Chronic complications of diabetes mellitus. Disorders of lipid metabolism - dyslipoproteinaemias. Principles of metabolism, metabolic diseases, organisation and importance of metabolic units: basics of parenteral and enteral treatment. Gerontology. Clinical picture of internal diseases in old	

<p>age, risk geronts and pharmacotherapy in old age. Clinical genetics. Practical lessons Diseases of small and large intestine. Non -specific intestinal inflammations practical training of indagation, demonstration of rectoscopy. Diseases of oesophagus, stomach, duodenum. Ulcer disease of stomach and duodenum, practical demonstrations of fibroscopy. Disease of liver, biliar ducts and pancreas, practical evaluation of the results of examinations. Diabetes mellitus - principles of diagnostics and therapy. Examination of the patients with chronic complications of diabetes mellitus. Diseases of hypophysis and thyroid and adrenal gland. Examination of the patients with the endocrine diseases. Nutritional disorders - malnutrition. Principles of parenteral and enteral nutrition. Organisation of metabolic unit. Basic examination methods in genetics. (Department of clinical genetics).</p>																				
<p>Recommended literature: Žuriš, I. a kol. : Princípy internej medicíny 1.2.3. Bratislava, SAP 2001. 295 s. Hrnčiar, J. a kol. : Endokrinné a hormonálne metabolické choroby. Mařatka, Z. a kol. : Praha, Karolinum, 1999, 490 s.</p>																				
<p>Languages necessary to complete the course: english</p>																				
<p>Notes:</p>																				
<p>Past grade distribution Total number of evaluated students: 598</p> <table border="1"> <thead> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>60,37</td><td>0,0</td><td>25,92</td><td>9,2</td><td>3,68</td><td>0,84</td><td>0,0</td></tr> </tbody> </table>							A	ABS0	B	C	D	E	FX	60,37	0,0	25,92	9,2	3,68	0,84	0,0
A	ABS0	B	C	D	E	FX														
60,37	0,0	25,92	9,2	3,68	0,84	0,0														
<p>Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Robert Vyšehradský, PhD., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčín, PhD., MBA, MUDr. Michal Demeter, PhD., MUDr. Martin Žuriček, PhD., MUDr. Jakub Hoferica, MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, doc. MUDr. Ľubomír Skladaný, PhD., MUDr. Jakub Benko, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Ľudovít Šutarík, CSc., MUDr. Michal Mokáň, PhD., MUDr. Martin Jozef Pěč</p>																				
<p>Last change: 06.04.2022</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/J-S-VL-541/19	Course title: Internal Medicine (3)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-539/19 - Internal Medicine (1)	
Course requirements: The conditions for successful passing the subject and obtaining credits are as follows: Presence at 12 practical lessons (absence of two practical lessons must be justified). Successful passing of 2 tests. Substitution of other missing practical lessons (according to the study order of JFMCU as well as to the Dean's direction) is possible only in case of less than 20 % of missing practical lessons (2) with the approval of the head of department. In serious cases, the substitution of more than 20% of practical lessons can be proposed by the head of department and will be allowed after approval of the Dean.	
Learning outcomes: Completion of training the student gains general informations – knowledge and practical skills from nephrology, to get acquainted with the most important kidney diseases with their diagnosis, differential diagnosis including laboratory and special investigative techniques and therapy. Additional knowledge and practical skills the student acquires of the most common intoxications in internal medicine, including their correct diagnosis and subsequent therapeutic solutions, further issues of metabolic syndrome, calcium metabolism disorders, disturbances of intrinsic environment and the principles of antibiotic treatment and treatment by glucocorticoids.	
Class syllabus: Examinations of patients with acute and chronic glomerulonephritis. Examinations of patients with tubulointerstitial nephritis. Functional methods in nephrology. Examinations of patients with chronic kidney disease. Uremic syndrome. Organization of the hemodialysis unit, examination and care of patients in chronic dialysis programme. Peritoneal dialysis and other elimination methods, Acute intoxications – diagnosis, differential diagnosis general principles of therapy. Indications of acute hemodialysis and hemoperfusion. Obesity, dyslipidemia and prediabetic states. Metabolic syndrome and risk factors of cardiovascular diseases. Disorders of calcium metabolism. Osteoporosis. Examination of patients with bone diseases.	

Principles of glucocorticoid therapy. Dehydration. Principles of treatment. Disturbances in intrinsic environment - metabolic and mineral dysbalance. Examination of patients with septic states, differential diagnosis of febrile states. Principles of antibiotic therapy.						
Recommended literature: Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022 Kumar, P. Clark, M. Kumar and Clark's Clinical Medicine. Philadelphia: Saunders Ltd., 2012, 1352 s. Colledge, N. R. et al. Davidson's Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010, 1376 s. McPhee, S. J., Hammer, G. D. Pathophysiology of Disease And Introduction to Clinical Medicine. Nex York: McGraw-Hill Medical, 2010, 737 s. Samoš M, Bolek T, Bánovčín P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -winter semester. P+M s.r.o. Turany 2021, 300 s. Samoš M, Bolek T, Bánovčín P, Dedinská I, Sokol J, Staško J Mokáň M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -summer semester. P+M s.r.o. Turany 2021, 267 s.						
Languages necessary to complete the course: English language.						
Notes:						
Past grade distribution Total number of evaluated students: 466						
A	ABS0	B	C	D	E	FX
38,63	0,21	30,9	18,67	8,15	3,43	0,0
Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., prof. MUDr. Matej Samoš, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Ľudovít Šutarík, CSc., doc. MUDr. Daniela Kantárová, PhD., MPH, MUDr. Michal Mokáň, PhD., doc. MUDr. Peter Bánovčín, PhD., MBA, MUDr. Martin Ďuriček, PhD., MUDr. Peter Hyrdel, PhD., prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Ivana Dedinská, PhD., MUDr. Jakub Benko, PhD., MUDr. Ivana Ságová, PhD., MUDr. Milan Dragula, MUDr. Karol Graňák, PhD., MUDr. Lukáš Urban, PhD., MUDr. Livia Jamrišková, PhD., doc. MUDr. Matej Vnučák, PhD., doc. MUDr. Daniel Čierny, PhD.						
Last change: 13.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/J-S-VL-542/19	Course title: Internal Medicine (4)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.IK1/J-S-VL-541/19 - Internal Medicine (3)	
Course requirements: The conditions for successful passing the subject and obtaining credits are as follows: Presence at 12 practical lessons (absence of two practical lessons must be justified). Successful passing of 2 tests. Substitution of other missing practical lessons (according to the study order of JFMCU as well as to the Dean's direction) is possible only in case of less than 20% of missing practical lessons (2) with the approval of the head of department. In serious cases, the substitution of more than 20% of practical lessons can be proposed by the head of department and will be allowed after approval of the Dean. The final evaluation for internal medicine is based on the successful passing of 2 tests, presence at 12 practical lessons and oral examination which consists of 2 questions.	
Learning outcomes: Completion of training the student gains general informations – knowledge and practical skills from area of the acute states in internal medicine in its individual branches such as cardiology, gastroenterology and hepatology, endocrinology, diabetology and disorders of metabolism and nutrition, hematology and of comatose states. Acquire the basic knowledge on the management of cancer patients.	
Class syllabus: Acute states in cardiology – organization of coronary unit. Functional methods in cardiology – evaluation of findings. Cardiogenic shock and principles of cardiopulmonary resuscitation. Principles of pharmacotherapy in cardiology. Video conference – cardiologic topic. Comatose states. Acute states in gastroenterology. Bleeding from gastrointestinal tract . Acute states in hematology – hemorrhagic states. Acute states in endocrinology. Acute states in diabetology – acute hyperglycemic and hypoglycemic states. Acute states in nephrology – acute kidney injury.	

Examination and care of oncologic patients.						
Recommended literature: Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022 Kumar, P. Clark, M. Kumar and Clark's Clinical Medicine. Philadelphia: Saunders Ltd., 2012, 1352 s. Colledge, N. R. et al. Davidson's Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010, 1376 s. McPhee, S. J., Hammer, G. D. Pathophysiology of Disease And Introduction to Clinical Medicine. Nex York: McGraw-Hill Medical, 2010, 737 s. Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -winter semester. P+M s.r.o. Turany 2021, 300 s. Samoš M, Bolek T, Bánovčin P, Dedinská I, Sokol J, Staško J Mokáň M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -summer semester. P+M s.r.o. Turany 2021, 267 s.						
Languages necessary to complete the course: English language.						
Notes:						
Past grade distribution Total number of evaluated students: 457						
A	ABS0	B	C	D	E	FX
33,92	0,0	24,73	17,72	13,13	9,85	0,66
Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., prof. MUDr. Matej Samoš, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Ľudovít Šutarík, CSc., MUDr. Lívia Jamrišková, PhD., doc. MUDr. Daniela Kantárová, PhD., MPH, MUDr. Michal Mokáň, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, prof. MUDr. Ivana Dedinská, PhD., MUDr. Milan Dragula, MUDr. Karol Graňák, PhD., doc. MUDr. Matej Vnučák, PhD.						
Last change: 13.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/J-S-VL-543/22	Course title: Internal Medicine (5)
Educational activities: Type of activities: practicals Number of hours: per week: per level/semester: 440s Form of the course: on-site learning	
Number of credits: 13	
Recommended semester: 11., 12..	
Educational level: I.II.	
Prerequisites: JLF.IK1/J-S-VL-542/19 - Internal Medicine (4) and JLF.IKG/J-S-VL-554/22 - Summer Practice-Internal Medicine and JLF.KHT/J-S-VL-565/19 - Hematology and Transfusiology and JLF.KPLT/J-S-VL-574/19 - Occupational Medicine and Toxicology and JLF.KICM/J-S-VL-567/19 - Infectology	
Course requirements: The conditions for successful passing the subject and obtaining credits are as follows: student must complete the 100 % of pre-state practice.	
Learning outcomes: Completion of training the student gains general informations-knowledge and practical skills from the whole area of internal diseases. The aim is to graduate syllabus can cope with patients in various conditions, able to apply theoretical knowledge, to analyse down working diagnosis, to plan the examinations and to recommend appropriated treatment	
Class syllabus: Within the practice of pre-state block at Department of Internal Medicine, student doing practical work under leadership of the treating physician in the range of the consumables houseman. He has allocated a room, hire and fire patients, suggests diagnostic and therapeutic procedure. Improve his practical skills and mastery of diagnostic and therapeutic management in hospitalized patients with various internal diseases. In addition he participates in vision and special workshops. Practice lasted for 9 weeks, fundament the 5 – weeks stay at the Department of Ist Internal Medicine and at the Department of Gastroenterology, week on the coronary and metabolic unit where getting to know the basic diagnostic and therapeutic procedures in dealing with acute conditions. Further completed 1 week at Department of Hematology and Transfusiology, 1 week at Department of Pneumophtisiology and 1 week at Department of Occupational Medicine and Toxicology.	
Recommended literature: Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022 Kumar, P. Clark, M. Kumar and Clark's Clinical Medicine. Philadelphia: Saunders Ltd., 2012, 1352 s. Colledge, N. R. et al. Davidson's Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010, 1376 s.	

<p>McPhee, S. J., Hammer, G. D. Pathophysiology of Disease And Introduction to Clinical Medicine. Nex York: McGraw-Hill Medical, 2010, 737 s. Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -winter semester. P+M s.r.o. Turany 2021, 300 s. Samoš M, Bolek T, Bánovčin P, Dedinská I, Sokol J, Staško J Mokáň M a kol. Practical Classes in internal Medicine for the 4th and 5th hrade of JFM -summer semester. P+M s.r.o. Turany 2021, 267 s.</p>						
Languages necessary to complete the course: Englisch language.						
Notes:						
Past grade distribution Total number of evaluated students: 178						
A	ABS0	B	C	D	E	FX
82,58	1,12	9,55	3,93	1,69	1,12	0,0
Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., prof. MUDr. Matej Samoš, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Martin Ďuriček, PhD., MUDr. Peter Hyrdel, PhD., prof. MUDr. Rudolf Hyrdel, CSc., MUDr. Martin Schnierer, PhD., MUDr. Jan Hudeček, CSc., RNDr. Jana Žolková, PhD., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Lucia Stančiaková, PhD., prof. MUDr. Ján Staško, PhD., MUDr. Tomáš Šimurda, PhD., MPH						
Last change: 13.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-537/17	Course title: Internal Medicine Propedeutics (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-515/16 - Physiology (1)	
Course requirements: 1. To attend both practicals. 2. To pass through the final evaluation. the final evaluation is performed by means of a written test. The pass-through criterion: 65%. Evaluation: A:93-100%, B:86-92%,C:79 -86%, D:72-78%,E:65-71%, Fx:64%.	
Learning outcomes: Obtaining of practical skills and theoretical knowledge in the field of Internal Medicine Propedeutics. Ability to perform complete history taking and physical examination and proposal of diagnostic plan with laboratory and auxiliary diagnostic methods in the fields of cardiology and pneumology.	
Class syllabus: Lectures: 1. Patient's history, its importance. Elaboration of the complex anamnestic findings. 2. Basic examination methods (inspection, palpation, percussion, auscultation) Status praesens generalis. 3. Examination of the head and neck (physiological and pathological findings). 4. Examination of the chest and lungs (physiological findings). 5. Examination of the heart and vessels (physiological findings). 6. Pathological findings in the heart and heart valve disorders. 7. Origin and evaluation of the normal ECG recordings. 8. Evaluation of the pathological ECG recordings. 9. Auxiliary examination methods in diagnostics of cardiovascular diseases. 10. Auxiliary examination methods in vessel diseases and lymphatic system. 11. Pathological findings of respiratory tract and lungs. 12. Chest radiography – describing, interpretation, radiographic signs. Radiographic manifestation of the lung diseases. 13. Auxiliary examination methods in respiratory diseases. 14. Complex evaluation of the patient with cardiovascular and respiratory diseases. Practicals: 1. Patients history and elaboration of the complex anamnestic findings.	

2. Training of the basics of physical examination (inspection, palpation, percussion, auscultation). Status praesens generalis.
3. Procedures in examination of the head and neck (physiological findings).
4. Training of the examination of the chest and lungs (physiological findings).
5. Training of the examination of the heart and vessels (physiological findings).
6. Auscultation findings in heart, pathological finding in valvular diseases of the heart.
7. Evaluation of the physiological ECG curves.
8. Evaluation of the pathological ECG curves. Test.
9. Diagnostical usage of the auxiliary examination methods in cardiovascular diseases (X-rax, ultrasonography, CT,laboratory parametres, scintigraphy etc.)
10. Clinical examination of the patients with the diseases of the vessels and lymphatic system, auxiliary methods in angiology.
11. Examination of the patients with obstructive bronchopulmonary disease and restrictive diseases of the lungs.
12. Interpretaion of the pathological X-ray slides.
13. Auxiliary examination methods in pneumology.
14. Elaboration of the model of the patients with cardiovascular or respiratory disease.

Recommended literature:

Novey, D.W. Rapid Acces Quide to the Physical Examination. Chicago: Year Boo Med.
Publ.1988,634 pp. ISBN 0-8151-6434-3

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 759

A	ABS0	B	C	D	E	FX
42,29	0,0	25,96	19,1	9,22	3,43	0,0

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., doc. MUDr. Robert Vyšehradský, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., prof. MUDr. Matej Samoň, PhD., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, doc. MUDr. Ľubomír Skladaný, PhD., MUDr. Jakub Benko, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Ľudovít Šutarík, CSc., MUDr. Martin Jozef Pěč, prof. MUDr. Dušan Meško, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-538/17	Course title: Internal Medicine Propedeutics (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-516/16 - Physiology (2) and JLF.IKG/J-S-VL-537/17 - Internal Medicine Propedeutics (1)	
Course requirements: To attend both practicals. 2. To pass through the final evaluation. The final evaluation is performed by means of a written test. The pass-through criterion: 65%. Evaluation: A:93-100%, B:86-92%, C:79-86%, D:72-78%, E: 65-71%, Fx:64%	
Learning outcomes: Obtaining of practical skills and theoretical knowledge in the field of Internal Medicine Propedeutics. Ability to perform complete history taking and physical examination and proposal of diagnostic plan with laboratory and auxiliary diagnostic methods in the fields of gastroenterology, endocrinology, diabetology, hematology, occupational medicine and genetics.	
Class syllabus: Lectures: 1. Examination of the abdomen and the abdominal organs. 2. Examination of the patients with diseases of gastrointestinal tract. 3. Auxiliary and functional examination methods in gastroenterology and hepatology. 4. Examination of the liver and diagnostics methods in hepatology. 5. Examination of the kidneys and patients with kidney diseases. 6. Auxiliary examination methods and laboratory tests in nephrology.- 7. Examination of the patients with diabetes mellitus. 8. Examination of the joints, muscles and spine. 9. Hematology I. 10. Hematology II. 11. Examination of the patients with endocrine diseases, auxiliary examination methods in endocrinology. 12. Reliability of laboratory methods and basic conditions of their. 13. Examination of the patients with occupational diseases and acute intoxications (alcohol, medicaments, drugs). 14. Examination of the genetic patients. Laboratory and auxiliary examinations. Practicals:	

1. Training of the examination of the abdomen and abdominal organs (physiological findings).
2. Examination of the patients with diseases of gastrointestinal tract and evaluation of the results.
3. Principles of evaluation of X-ray examination, ultrasonography, demonstration of fibroscopy, rectoscopy, colonoscopy, some invasive examinations.
4. Auxiliary examination methods in hepatology.
5. Examination of the patients and evaluation of nephrologic findings in patients with the diseases of uropoietic tract.
6. Function Examination of kidneys.
7. Examination of the patients with diabetes mellitus.
8. Training of the examination of the joints, muscles and spine (physiological findings). Pathological findings during examination of musculoskeletal apparatus. Tes.
9. Hematology I.
10. Hematology II.
11. Examination and evaluation of the results of laboratory examinations in patients with endocrine diseases.
12. Evaluation of laboratory findings and their interpretation.
13. Algorithm and interpretation of examinations of the patients with acute intoxications (alcohol, medicaments, drugs).
14. Credit test. Elaboration of the model patient's record.

Recommended literature:

Novey, D.W. Rapid Access Guide to the Physical Examination. Chicago: Year Book Med. Publ. 1988, 634 pp. ISBN 0-8151-6434-3

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 758

A	ABS0	B	C	D	E	FX
35,22	0,0	31,53	23,09	7,39	2,51	0,26

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., doc. MUDr. Oto Osina, PhD., prof. MUDr. Marián Mokán, DrSc., FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., prof. MUDr. Matej Samoš, PhD., doc. MUDr. Robert Vyšehradský, PhD., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, doc. MUDr. Ľubomír Skladaný, PhD., doc. MUDr. Juraj Sokol, PhD., prof. MUDr. Ján Staško, PhD., MUDr. Jakub Benko, PhD., MUDr. Ivana Ságová, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Ľudovít Šutarík, CSc., MUDr. Michal Mokán, PhD., MUDr. Martin Jozef Péc, prof. MUDr. Dušan Meško, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.BioMed/J-S-VL-628/19	Course title: Introduction to Medical Data Analysis
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements:	
Learning outcomes: A student shall understand and critically assess results of data analysis in medical research publications. The student shall know the ways of translating a medical research question into a data-analytic one. The student shall understand possible methods for data collection and the relation between a sample and a population. The student shall have firm understanding of the basic tools of data visualization (such as histogram, boxplot), descriptive statistics (such as the sample average, standard deviation, median, interquartile range) and data analysis (such as the ROC curve, sensitivity, specificity, hypothesis testing and confidence intervals, logistic regression, survival analysis, correlation and regression analysis). The student will be able to select an appropriate tool for a particular problem. The student shall gain experience with analyzing real medical data, sufficient for performing such an analysis of a novel data on her/his own	
Class syllabus: 1st seminar Case study 1 (Indicators of Prostate Biopsy Results): Experiment vs observation study. Case-control study. Data types (qualitative, quantitative). Descriptive statistics (mean, median, standard deviation, interquartile range; frequency table, contingency table). Data visualization (histogram, boxplot; mosaicplot). 2nd seminar Case study 1, continued (Indicators of Prostate Biopsy Results): What is a biomarker? Diagnostic accuracy of a biomarker. Sensitivity, specificity, ROC curve, AUC, Youden index. Prevalence. Positive predictive value, negative predictive value – the key information for a physician and a patient. Diagnostic accuracy of PSA (prostate-specific antigen) for prostate cancer. 3rd seminar Case study 1, continued (Indicators of Prostate Biopsy Results): How to take into account the difference in the age composition of patients and controls? Logistic regression. Odds Ratio, risk. Confidence interval. P-value and statistical significance. 4th seminar Case study 2 (Identification of Risk Factors for Death after Carinal Resection): Selection of important predictors: does prior surgery matters? Akaike Information Criterion. Confidence band for ROC curve. 5th seminar Case study 3 (Effect of Protase Inhibitors on Pulmonary Admissions): Contingency tables. Independence test. Statistical significance versus scientific (medical) importance. Case study 4 (Effectiveness of a Drug in Reducing Nausea After Gallbladder Removal): Test of trend in contingency table. Is there a statistically significant difference in the	

decrease of nausea rating between the drug and placebo? 6th seminar Case study 5 (Laryngectomy Survival): Survival curve, censoring, Kaplan Meier estimator. Log-rank test: Is the survival the same for the Radiation Therapy patients as for the patients that underwent the larynx conservation surgery? Hazard ratio. 7th seminar Case study 6 (Exhaled Nitric Oxide as an Indicator of Exercise-Induced Bronchoconstriction): Scatterplot. Correlation vs causation. Regression. Single predictor, multiple predictors. Selection of predictors. Quality of fit. Predictions.						
Recommended literature: Riffenburgh R.H. Statistics in Medicine. 3-rd ed. Academic Press, 2012. ISBN 9780123848642.						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. Mgr. Marián Grendár, PhD.						
Last change: 29.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMBI/J-S-VL-597/17	Course title: Laboratory Practicals in Molecular Biology
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Subject Molecular biology (JLF.ÚMB/J-S-VL-590/17)	
Course requirements: Participation on laboratory examinations and delivery of laboratory protocol. Scale of assessment (preliminary/final): Final grade	
Learning outcomes: The graduate acquires the basic practical skills in molecular biology methods – DNA extraction, PCR, real-time PCR, Sanger sequencing and fragment analysis design, pipetting and interpretation.	
Class syllabus: Practical exercise: Basic methods of molecular biology applied in molecular diagnostics – isolation of DNA, basics of primer design, Ensembl database, preparation of PCR protocol, preparation of real time PCR protocol, preparation of dideoxysequencing workflow, pipetting of PCR, real-time PCR and dideoxysequencing, interpretation of PCR, real-time PCR, dideoxysequencing and fragment analysis experiments.	
Recommended literature: Fast Real-Time PCR System http://www3.appliedbiosystems.com/cms/groups/mcb_support/documents/generaldocuments/cms_041436.pdf p. -9-14, 33-47. DNA sequencing and capillary electrophoresis http://www3.appliedbiosystems.com/cms/groups/mcb_support/documents/generaldocuments/cms_041003.pdf p. 2-14	
Languages necessary to complete the course: English	
Notes: No.	

Past grade distribution						
Total number of evaluated students: 13						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Zora Lasabová, PhD., doc. Mgr. Tatiana Burjanivová, PhD.						
Last change: 24.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-609/19	Course title: Legal Aspect of Health Care Providing
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Attendance 7x4 p. (max. 28 p.) studying selected legal issues (max. 36 points) clear publication of the selected topic (max. 36 points) Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student understands legal aspects of health care providing. The student is able to apply basic information on current legislation in force in practice.	
Class syllabus: Obligations of a healthcare professional in the provision of healthcare (documentation, agreements, use of codes and stamps). Obligations of the healthcare provider. Control mechanisms - Health Care Surveillance Authority. Obligations of a health worker in relation to the Social Insurance Agency. Legal responsibility of healthcare providers.	
Recommended literature: Recommended literature: Zákon č. 576/2004 Z. z. o zdravotnej starostlivosti v znení neskorších predpisov Zákon č. 578/2004 Z. z. o poskytovateľoch zdravotnej starostlivosti v znení neskorších predpisov Zákon č. 581/2004 Z. z. o zdravotných poisťovniach, dohľade nad zdravotnou starostlivosťou v znení neskorších predpisov Zákon č. 461/2003 Z. z. o sociálnom poistení v znení neskorších predpisov Zákon č. 355/2007 Z. z. o ochrane, podpore a rozvoji verejného zdravia v znení neskorších predpisov	
Languages necessary to complete the course: slovak	
Notes:	

Past grade distribution						
Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Viera Švihrová, CSc., prof. MUDr. František Novomeský, PhD., prof. MUDr. Lubomír Straka, PhD.						
Last change: 06.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-510/16	Course title: Medical Biochemistry (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBch/J-S-VL-508/22 - Medical Chemistry (1)	
Course requirements: The form of evaluation is only written. The 60 % of total score points is necessary. Rating: A: 91-100%, B: 81-90%, C: 73-80%, D:66-72%, E:60-65%, Fx:59% and less.	
Learning outcomes: The student receives information such as biomolecules are synthesized, degraded and metabolized in the human body. The students deepen their knowledge about biochemical pathways in different organs under normal circumstances and they also learn how the metabolic processes work under pathological conditions at the molecular level, which is a prerequisite for correct diagnosis, treatment and individualized approach to the subject. The result of learning is understanding formation, causes and treatment of many diseases. The student can apply his theoretical knowledge and try to solve scenarios with diseases and its potential complications during preparing a seminar presentation as well as the practical examination of biological material.	
Class syllabus: The principles of oxidation and reduction in the body. Respiratory chain, ATP production, redox potential, electron transport in mitochondria. Intermedial metabolism, citric cycle, the role of acetyl CoA in metabolism. Glycolysis under aerobic and anaerobic conditions. Carbohydrate metabolism, carbohydrate digestion, absorption and transport, glycogenolysis, glycogenesis, principles and regulation. Gluconeogenesis, principles and regulation. Pentose phosphate pathway, pentoses and NADPH production. Fructose, galactose and glucuronic acid metabolism. Proteoglycans and glycoproteins. Lipid metabolism, lipid digestion and absorption, fatty acid synthesis and degradation, regulation. Metabolism of triacylglycerols, membrane lipids and phospholipids. Cholesterol metabolism, acetyl CoA as a steroid precursor, Bile acid metabolism and blood. Lipoprotein metabolism, lipoproteinemias. Ketone bodies synthesis and degradation. Integration of carbohydrate and lipid metabolism, hormone regulation and clinical aspects in metabolic disorders.	
Recommended literature: P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 pp.	

P. Račay: Selected chapters from enzymology, membrane biochemistry and biochemistry of genetic information. JLF UK portal MEFANET Martin, 2013. 90 pp.
 J. Lehotský et al.: Medical chemistry and biochemistry II. Comenius University Bratislava, 2012. 139 pp.
 R. K. Murray et al.: Harper's Illustrated Biochemistry, McGraw-Hill Medical New York, 2014. 818 pp.
 R. A. Harvey, D. R. Ferrier: Lippincott's Illustrated Reviews: Biochemistry. Lippincott Williams & Wilkins Philadelphia, 2017. 520 pp.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 931

A	ABS0	B	C	D	E	FX
3,76	0,11	24,49	32,22	26,42	10,74	2,26

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmeťová Sivoňová, PhD., RNDr. Andrea Evinová, PhD., Ing. Ján Strnád, PhD., doc. Mgr. Eva Babušíková, PhD., RNDr. Katarína Dibdiaková, PhD., doc. RNDr. Jozef Hatok, PhD., Mgr. Jana Jurečková, PhD., doc. RNDr. Martin Kolísek, Dr.rer.nat, prof. RNDr. Ján Lehotský, DrSc., doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., prof. RNDr. Peter Račay, PhD., doc. Ing. Zuzana Tatarková, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-511/17	Course title: Medical Biochemistry (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 4 per level/semester: 56 / 56 Form of the course: on-site learning	
Number of credits: 10	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBch/J-S-VL-509/15 - Medical Chemistry (2) and JLF.ÚLBch/J-S-VL-510/16 - Medical Biochemistry (1)	
Course requirements: The form of evaluation is written and oral examination. The minimum percentage of success is 60%. Rating: A: 91-100%, B: 81-90%, C: 73-80%, D: 66-72%, E:60-65%, Fx:59% and less.	
Learning outcomes: The students understand of basic metabolic processes in various organs, understand normal the ongoing biochemical processes in healthy tissue as well as pathological tissue. Detailed understanding of the biochemical processes in the human body creates conditions for causal-based therapy with an individual approach to each patient. To maintain of this trend of cognition, as well as the introduction of new knowledge at the molecular level into practice, it is necessary to educate professionals, practitioners are able to cope with a huge increase in biochemical knowledge.	
Class syllabus: Nucleotides metabolism, regulation and metabolic diseases. Protein metabolism, protein digestion and absorption, urea cycle. Amino acids in the intermediate metabolism. Metabolism of individual amino acids, amino acids special metabolites. Carbohydrate, proteins and lipids metabolic interrelationships: obesity, stress, pregnancy, lactation, starvation, aging, exercise, vegetarian diet. Tetrapyroles metabolism, synthesis, degradation and regulation. Biochemical basis of the diabetes mellitus and atherosclerosis. Cell signaling, signal molecules. Hormones and neurohormonal regulation, extracellular and intracellular communication. Biochemical's function of some organs: kidney, liver, muscle, nerve tissue and blood elements Acid-base balance, buffer systems, regulation of acid-base balance, metabolic acidosis and alkalosis and respiratory acidosis and alkalosis. Xenobiochemistry.	
Recommended literature: P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 pp. P. Račay: Selected chapters from enzymology, membrane biochemistry and biochemistry of genetic information. JLF UK portal MEFANET Martin, 2013. 90 pp.	

J. Lehotský et al.: Medical chemistry and biochemistry II. Comenius University Bratislava, 2012. 139 pp.
 R. K. Murray et al.: Harper's Illustrated Biochemistry, McGraw-Hill Medical New York, 2014. 818 pp.
 R. A. Harvey, D. R. Ferrier: Lippincott's Illustrated Reviews: Biochemistry. Lippincott Williams & Wilkins Philadelphia, 2017. 520 pp.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 848

A	ABS0	B	C	D	E	FX
7,08	0,0	15,09	23,58	14,15	24,76	15,33

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Ján Lehotský, DrSc., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmet'ová Sivoňová, PhD., doc. Mgr. Eva Babušíková, PhD., doc. Ing. Zuzana Tatarková, PhD., RNDr. Katarína Dibdiaková, PhD., RNDr. Andrea Evinová, PhD., doc. RNDr. Jozef Hatok, PhD., Mgr. Jana Jurečeková, PhD., doc. RNDr. Martin Kolísek, Dr.rer.nat, doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., prof. RNDr. Peter Račay, PhD., Ing. Ján Strnádel, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBI/J-S-VL-512/21	Course title: Medical Biology and Genetics (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Successful passing of two credit tests (not less than 60%), 100% attendance at practical classes. Preliminary assessment: Test, stand-alone work, preparation of presentation according to given topic. Final assessment: Mark, according to credit tests results. Scale of assessment (preliminary/final): 100 / 0	
Learning outcomes: After completing the subject, the student has knowledge in general cytology – structure, function and pathology of the cell.	
Class syllabus: Biopolymers – proteins, nucleic acids, polysaccharides. The cell theory. Cell as a basic structural and functional unit. Organization of the cell memory system, genetic information. DNA replication. Gene expression. Biological membranes – structure and function. Cell surfaces. Membrane transport. Membrane organelles – nucleus, mitochondria, endoplasmic reticulum, Golgi complex, lysosomes, peroxisomes. Cytoskeleton. Influence of external factors on cell. Cell division – mitosis. Meiosis, gametogenesis. Cell death.	
Recommended literature: Halašová E., Franeková M., Péč M., Kubatka P.: Selected Lessons in Medical Biology, 2016, 193 pp. Halašová E., Bukovská E., Franeková M.: Medical Biology Practicum, 2015, 140 pp. Karp G.: Cell and molecular biology, John Wiley and Sons, Inc., 2005, 780 pp. Turnpenny P., Ellard S.: Emerys Elements of Medical Genetics, 2007, 423 pp.	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 380						
A	ABS0	B	C	D	E	FX
7,11	0,0	6,32	10,79	18,95	43,95	12,89
Lecturers: prof. RNDr. Erika Halašová, PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD.						
Last change: 15.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBI/J-S-VL-513/22	Course title: Medical Biology and Genetics (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 3 per level/semester: 42 / 42 Form of the course: on-site learning	
Number of credits: 7	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBI/J-S-VL-512/21 - Medical Biology and Genetics (1)	
Course requirements: Successful passing of two credit tests (not less than 60%), 100% attendance at practical classes, successful passing of oral exam. Preliminary assessment: test, stand-alone work, preparation of presentation according to given topic. Final assessment: mark, according to oral exam. Scale of assessment (preliminary/final): 0 / 100	
Learning outcomes: After completing the subject, the student has knowledge in molecular biology and genetics, in genetics of blood groups, immunogenetics as well as in genetics of cancer cell, viruses and bacteria.	
Class syllabus: Cell genome. Karyotype. General laws of inheritance – Mendel's laws, gene interactions, gene linkage, sex-linked inheritance. Genetics of blood groups. Mutations – gene, chromosomal, numerical. Population genetics. Pedigree analysis. Genetics of prokaryotes and viruses. Immunogenetics – HLA system. Cancer cell genetics – protooncogenes, oncogenes. Cytogenetic methods, methods of gene engineering.	
Recommended literature: Halašová E., Franeková M., Péč M., Kubatka P: Selected Lessons in Medical Biology, 2016, 193 pp. Halašová E., Bukovská E., Franeková M.: Medical Biology Practicum, 2015, 140 pp. Karp G.: Cell and molecular biology, John Wiley and Sons, Inc., 2005, 780 pp. Turnpenny P., Ellard S.: Emerys Elements of Medical Genetics, 2007, 423 pp.	
Languages necessary to complete the course: English	
Notes:	

Past grade distribution						
Total number of evaluated students: 325						
A	ABS0	B	C	D	E	FX
10,15	0,0	13,54	16,62	14,77	12,31	32,62
Lecturers: prof. RNDr. Erika Halašová, PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD., prof. MUDr. Martin Péč, PhD., MPH						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBf/J-S-VL-504/15	Course title: Medical Biophysics
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 2 per level/semester: 56 / 28 Form of the course: on-site learning	
Number of credits: 8	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Basic characteristics of the principles of biophysical process in the organism. Biophysical principles of diagnostics methods and therapeutics methods by ionizing and nonionizing radiation in medicine and basic principles of protection counter ionizing radiation (limits, effective dose and personal dosimetry).	
Course requirements: Evaluation of students is based on oral exam, credit test and results from practicals and seminars. The final evaluation of students before oral exam is given by addition of their particular points. This will assign them into the rank: $A \geq 540$, $B \geq 450$, $C \geq 360$, $D \geq 280$, $E \geq 210$, $F_x < 210$ Scale of assessment (preliminary/final): 50/50	
Learning outcomes: After completion of the subject Medical Biophysics, students are able to master the basic physical and physical-chemical processes in biological systems and human body. Students understand biophysical principles of physiological and pathological processes in humans at a level of a cell, tissues and the organ systems. They know and apply to practice the basic biological effects of physical factors affecting the human body and a protection against their harmful influences. They master the biophysical principles of medical instrumentation used in diagnostic and some therapeutical methods.	
Class syllabus: -Structure and function of cell membrane. Transport mechanisms. The resting membrane potential. -The action potential, its origin and propagation. Synapse and synaptic transmission. -Biophysical principles of muscle contraction. Skeletal, cardiac and smooth muscle. Biophysical basics of respiration. External and internal breathing, ventilation, distribution, diffusion and perfusion. -Biophysics of the circulatory system. Heart as a force pump, structure, function, power output. -Laminar and turbulent blood flow - basic laws. Blood pressure. Capillary blood flow, filtration in capillary loop, oedema. -Biophysical mechanism of sensory perception. Biophysics of vision. Biophysics of hearing.	

- Recording of electrical and nonelectrical biosignals.
- Interaction of mechanical and meteorological factors with living systems.
- Interaction of electrical and magnetic fields and nonionising radiation with living systems.
- Radioactivity and ionising radiation.
- Origin of ionizing radiation and the interaction of ionizing radiation with living systems, radiological quantities and units. Detection of ionising radiation.
- X-ray imaging techniques. Imaging techniques using radionuclides.
- Biophysical principles of some diagnostical and therapeutical methods in medicine.
- Biocybernetics. Simulation and modelling of biological processes. Theory of information. Controlled and regulated biological systems.

Recommended literature:

Míšek, J., Veterník, M., Jakuš, J. et al.: Medical Biophysics with practical course, Martin, Jessenius Medical Faculty in Martin, Comenius University in Bratislava, 2022, 253 pp. ISBN 9788081871290.

Nave, C.R., Nave, B.C.: Physics for the health sciences. Philadelphia, W.B. Saunders Comp. 1985, 421 pp.

Tarjan, I., et al.: An introduction to biophysics with medical orientation. Budapest. Akademiai Kiado, 1999, 448 pp.

Hoppe, W.: Biophysics. Berlin, Springer Verlag 1983. 941 pp.

Jakuš, J., Poliaček, I., Šimera M.: Practical Tasks in Medical Biophysics, Martin, Osveta, 2013, 144 pp.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 1219

A	ABS0	B	C	D	E	FX
13,21	0,0	20,34	29,04	17,56	17,56	2,3

Lecturers: prof. MUDr. Ján Jakuš, DrSc., prof. RNDr. Ivan Poliaček, PhD., doc. RNDr. Michal Šimera, PhD., doc. Ing. Jakub Míšek, PhD., Ing. Marcel Veterník, PhD., Mgr. Nadežda Višňovcová, PhD.

Last change: 28.11.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-508/22	Course title: Medical Chemistry (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1,5 per level/semester: 14 / 21 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Lecture/Practical Extent (in hours) – per week: 1.5/1 Method - attendance form Number of credits: 3 credits	
Course requirements: Evaluation of students is performed as a written exam, minimal level to pass: 60 %. Evaluation: A: 91–100 % B: 81–90 % C: 73–80 % D: 66–72 % E: 60–65 % FX: 59 % and less Scale of assessment (preliminary/final): 100/0	
Learning outcomes: After completion of the subject student gains essential informations about biologically important compounds and about rules of chemical processes in the living systems. Student understands the principles of bioenergetics and enzyme kinetics and rules for chemical reactions in aqueous solutions. Completion of the subject also contributes to understanding of relationship between structure and function of biologically important compounds. Student is able to apply knowledge gained on the lectures and seminars at learning of biological oxidations, metabolism of compounds and acid-base equilibrium of body fluids.	
Class syllabus: - Biologically important elements and their compounds. Weak noncovalent interactions and their importance for biopolymers and biological membranes. - Thermodynamics and living systems. Entropy, Gibbs free energy and coupled reactions in living systems. - Rate of chemical reactions. Types of reactions and their importance in metabolic pathways. Kinetics of enzyme reactions, enzyme inhibition. - Properties of aqueous solutions. Chemical reactions in aqueous solutions: acid-base reactions, oxidation-reduction reactions, precipitation reactions, formation of coordination substances. Properties of colloid systems, biopolymers as colloids. - Chemical properties and biological importance of amino acids, peptides and proteins. Relationship between structure and function of proteins. - Chemical properties and biological importance of myoglobin and hemoglobin. - Chemical properties and biological importance of saccharides and their derivatives. - Chemical properties and biological importance of triacylglycerols, phospholipids, sphingolipids and steroids.	

Recommended literature:

P. Kaplán: Medical Chemistry, P+M Turany, 2012. 127 pp.
P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 pp.
P. Račay: Medical chemistry and biochemistry IV. Comenius University Bratislava, 2012. 86 pp.
J. Lehotský et al.: Medical chemistry and biochemistry II. Comenius University Bratislava, 2012. 139 pp.
R. K. Murray et al.: Harper's Illustrated Biochemistry, McGraw-Hill Medical New York, 2012. 818 pp.
R. A. Harvey, D. R. Ferrier: Lippincott's Illustrated Reviews: Biochemistry. Lippincott Williams & Wilkins Philadelphia, 2012. 520 pp.

Languages necessary to complete the course:**Notes:****Past grade distribution**

Total number of evaluated students: 271

A	ABS0	B	C	D	E	FX
1,85	0,0	5,54	23,62	29,52	38,75	0,74

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Račay, PhD., doc. Mgr. Eva Babušíková, PhD., doc. RNDr. Jozef Hatok, PhD., doc. Ing. Zuzana Tatarková, PhD., RNDr. Katarína Dibdiaková, PhD., Mgr. Jana Jurečková, PhD., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmeťová Sivoňová, PhD., prof. RNDr. Ján Lehotský, DrSc., doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., doc. RNDr. Martin Kolísek, Dr.rer.nat, RNDr. Andrea Evinová, PhD., Ing. Ján Strnádel, PhD.

Last change: 08.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-509/15	Course title: Medical Chemistry (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1,5 per level/semester: 14 / 21 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBch/J-S-VL-508/22 - Medical Chemistry (1)	
Recommended prerequisites: Lecture/Practical Extent (in hours) – per week: 1.5/1 Method - attendance form Credits: 4	
Course requirements: Evaluation of students is performed as a written and oral exam, minimal level to pass: 60 % for written part. Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 59 % and less. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: After completion of the subject the student understands regulatory mechanisms of chemical processes on enzyme level and gains essential informations about properties of biological membranes, required for understanding the mechanisms of substance exchange, hormone action and cell signaling. Completion of the subject also contributes to knowledge of biochemical foundations of storage and transfer of genetic information and introduces to contemporary applications of genomic technology in clinical medicine. Student gains knowledge of molecular foundation of several diseases and understands the importance of chemistry in search of effective diagnostic and therapeutic procedures.	
Class syllabus: - Enzyme catalysis, regulations at the enzyme level – mechanisms of short-term and long-term control.	

- Structure of biological membranes. Lipid and protein components of membranes, membrane fluidity. Synthetic membranes. Structural changes of membranes at pathological conditions.
- Membrane transport. Mechanisms of passive and active transport of ions and compounds. Transport of polar and nonpolar species, gases and drugs. Transepithelial transport.
- Nucleotides and nucleic acids. Chemical and biological properties of nucleotides. Coenzymes and second messengers derived from nucleotides.
- Primary, secondary and tertiary structure of DNA and genetic information. Organization of eukaryotic genome.
- Mechanism of DNA replication and repair mechanisms of damaged DNA.
- Structure and properties of mRNA, tRNA, rRNA. Synthesis of RNA – transcription and post-transcriptional modification of RNA.
- Proteosynthesis. Characteristics of genetic code, mutations. Mechanism of synthesis of proteins and post-translational modifications. Inhibitors of proteosynthesis, antimetabolites and antibiotics.
- Regulation of gene expression in eukaryotes. Clinical examples of deregulation of gene expression. - Gene manipulations. Technology of recombinant DNA and methods used in gene manipulations. Practical applications of gene manipulation in human genetics, prenatal diagnostics, gene therapy, examples of inherited disease.

Recommended literature:

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 1189

A	ABS0	B	C	D	E	FX
15,64	0,0	21,45	26,16	15,14	14,97	6,64

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Račay, PhD., doc. Mgr. Eva Babušíková, PhD., doc. RNDr. Jozef Hatok, PhD., doc. Ing. Zuzana Tatarková, PhD., Mgr. Jana Jurečková, PhD., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmet'ová Sivoňová, PhD., prof. RNDr. Ján Lehotský, DrSc., Mgr. Radovan Murín, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚSLME/J-S-VL-637/22	Course title: Medical Criminalistics
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 90 % participation in seminars	
Learning outcomes: After completing the course, the student knows the basics of frontier forensic disciplines (toxicology, serology, criminology) related to the doctor's practice. After completing the LK course, the student is qualified to perform administrative and practical professional tasks during the examination of the deceased, not only in the medical facility, but also outside the hospital. The student masters the procedures for inspecting the crime scene, is familiar with the procedures of the police in the investigation of a crime, respectively suspected of a criminal offense. Student can actively cooperate and participate in the investigation of various types of crime. At the request of law enforcement authorities, he is able to examine living persons and evaluate the finding forensically. The aim of the subject LK is to gain such experiences, practical habits and procedures that can be implemented also in other fields of medical practice.	
Class syllabus: I. COOPERATION WITH THE POLICE (Dead body inspection, Crime scene inspection, Crime scene psychology, Covering the traces of the crime from a forensic medical point of view, Examination of biological traces, Examination of a living person - persons suspected and accused of committing a crime, examination witnesses) II. PRINCIPLES FOR THE COLLECTION OF BIOLOGICAL MATERIAL IN SUSPECTED CRIME CASES (Introduction to forensic toxicology, Volatile poisons, Extractive poisons, Metal poisons, Other type of poisons, Unknown poisons, Possibilities and methods of alcohol detection, Basics of forensic serology, Forensic methods of identification of living and dead person)	
Recommended literature: DiMaio, V.J., DiMaio, D.: Forensic Pathology, CRC Press, Washington, D.C., 2001, 565 pp Saukko, P., Knight B.: Knight's Forensic Pathology, CRC Press, Boca Raton, 2016 Spitz, W.U., Diaz, F.J.: Spitz and Fisher's Medicolegal Investigation of Death, Charles C Thomas, Springfield, 2020	

Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. MUDr. Martin Janík, PhD., prof. MUDr. Ľubomír Straka, PhD.						
Last change: 18.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-532/17	Course title: Medical Psychology and Basics of Communication
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: 0	
Course requirements: Requirement to apply for exam: - participation in practicals at least 4times (8 lessons), participation in lectures 4 times - participation in lectures at least 2 times - favourable results during running controls - favourable results in test Check in the course of practicals: - Evaluation till the end of 7th week: control questions during practical exercises - Evaluation till the end of 14th week: control questions during practical exercises Evaluation of the results of running controls: A/1 = 93 – 100 %; B/1,5 = 86 – 92 %; C/2 = 79 – 85 %; D/2,5 = 72 – 78 %; E/3 = 65 – 71 %, Fx = less than 65 % The share of the running controls on final evaluation of the subject: 10 % Final evaluation: oral exam or test Scale of assessment (preliminary/final): 10/90	
Learning outcomes: After completion of the subject the student has a basic knowledge in psychological aspects in medicine aimed to psychological aspects of the disease and the sick person/patient, medical examinations, treatment and health environment. Student knows characteristics and assessment of mental functions, principles of psychosomatic and somatopsychic relations. He/she has basic knowledge in specifics of verbal and nonverbal communication in medicine.	
Class syllabus: Medical psychology – basic terms, characteristics and content of the field. Psychosomatic and psychophysiology, psychosomatic and somatopsychic relations. Psychopathogenesis. Bio-psychosocial model of disease.	

<p>Mental functions – basic characteristics, methods of examination, issues of normality and pathology, behaviour and experiencing (externalizing and internalizing behavior), state and trait variables, psychopathology.</p> <p>Psychological aspects of the disease and the sick person/patient. Experiencing and elaboration of disease (adaptation to disease, disorder, illness). Pathopsychology. The issue of pain, aggravation, simulation, dissimulation, self-harm, deliberate induction of symptoms, alexithymia, types of patient's behavior, problems of terminal states and dying.</p> <p>Psychological problems of medical examination, observation and interview as a diagnostic tool in medicine. Psychological diagnosis and its importance in medical practice.</p> <p>Psychological problems of treatment. Psychological methods of treatment, psychotherapy and its mechanisms. Psychological crisis, crisis intervention.</p> <p>Psychological problems of health environment, outpatient and inpatient care.</p> <p>Psychological aspects of the doctor's work and other health professionals. The issue of burnout, coping with the burden and frustrating experiences, problems of cooperation and rivalry. Medical ethics. Iatropathogenesis.</p> <p>Mental hygiene, prevention, specific psychohygienic problems.</p> <p>Verbal and nonverbal communication and its importance in medicine. Communication with specific groups of patients. Patient noncompliance.</p> <p>Specifics of communication in different developmental stages. Communication with pediatric patient, geriatric patient. Communication with seriously ill and dying patients.</p> <p>Communication with patients with acute and non-acute mental disorder, with physical, sensory and intellectual disabilities.</p>																				
<p>Recommended literature:</p> <p>Compulsory literature:</p> <p>McManus IC. Psychology in Medicine. Butterworth 1992</p> <p>Ayers S., Visser R. Psychology for medicine. Sage, Los Angeles 2011, 530 p.</p> <p>Lloyd M, Bor R. Communication skills for medicine. Elsevier, 2009, 222 p.</p> <p>Recommended literature:</p> <p>Alder B. et al. Psychology and sociology applied to medicine. 3rd. ed. Elsevier, Edinburgh 2009, 182 p.</p>																				
<p>Languages necessary to complete the course:</p> <p>english</p>																				
<p>Notes:</p>																				
<p>Past grade distribution</p> <p>Total number of evaluated students: 757</p> <table border="1"> <thead> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>69,62</td><td>0,0</td><td>18,89</td><td>8,45</td><td>1,59</td><td>1,45</td><td>0,0</td></tr> </tbody> </table>							A	ABS0	B	C	D	E	FX	69,62	0,0	18,89	8,45	1,59	1,45	0,0
A	ABS0	B	C	D	E	FX														
69,62	0,0	18,89	8,45	1,59	1,45	0,0														
<p>Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., MUDr. Dana Fuňáková, PhD.</p>																				
<p>Last change: 06.09.2024</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMI/J-S-VL-517/17	Course title: Microbiology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLB1/J-S-VL-513/22 - Medical Biology and Genetics (2)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - test during the semester - oral presentation of seminar work End study evaluation of students is based on written test - The final grade is determined by counting the points for the test during semester and the final exam test. Scale of assessment (preliminary/final): 33,3% / 66,7%	
Learning outcomes: The student receives information from general bacteriology, virology, parasitology and mycology, about their structure, metabolism, pathogenic potential, pathogenesis of infectious diseases, genetics and antibiotics used for the treatment, as well as about methods of disinfection and prevention (vaccination included). The student is trained to use principal diagnostical procedures, to understand their theoretical background, indication and interpretation. The student is able to manage the most common way of sampling of infectious materials, to process them for microscopy, cultivation, identification and ATB susceptibility and tools of pathogenity testing. The student is able to continue the study that requires the basis of bacterial cell structure, metabolism, genetics and to use the gained knowledge for understanding the requirements of the next degree (microbiology 2).	
Class syllabus: Introduction to microbiology, Structure of bacterial cell, Physiology and metabolism of bacterial cell, Genetics of bacterial cell, Antibiotics, vaccines, disinfection, Antibiotics and resistance, Pathogenic potential of microorganisms, Pathogenesis of infection Safety in microbiological laboratory, organization of study, Microscopy, native smear, fixed smear, Staining procedures: Gram, Acid fast, Burri method, Wirtz Conklin for spores, Neisser, Albert for metachromatic granules, Cultivation, inoculation, Identification of bacteria. Cultivation media. Anaerobic bacteria cultivation. Detection of pathogenic potential of bacteria – enzymes, toxins, ATB susceptibility testing	
Recommended literature:	

Murray, P.R., Rosenthal, K.S., Pfaller, M.A. Medical Microbiology. 7th ed. Philadelphia: Elsevier Saunders, 2013. 874 s. ISBN 978-0-323-08692-9.
Murray, P.R., Rosenthal, K.S., Pfaller, M.A. Medical Microbiology. 8th ed. Philadelphia: Elsevier Saunders, 2016. 836 s. ISBN 978-0-323-29995-6
Harvey, R. A., Champe, P.C., Fischer, B.D. Lippincott's Illustrated Review Microbiology. Lippincott Williams & Wilkins, 2007. 438 s. ISBN 13: 978-0-7817-8215-9
Greenwood, D., Barer, M., Slack, R., Irwing, W. Medical Microbiology. 18. ed. Edinburgh: Elsevier Saunders, 2012. 778 s. ISBN 978-0-7020-4089-4
Reading from MEFANET and faculty web site for microbiology

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 784

A	ABS0	B	C	D	E	FX
35,33	0,0	25,13	23,09	10,59	5,74	0,13

Lecturers: doc. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., doc. MUDr. Vladimíra Sadloňová, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMI/J-S-VL-518/17	Course title: Microbiology (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 3 per level/semester: 42 / 42 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: JLF.ÚMI/J-S-VL-517/17 - Microbiology (1)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - 1 test during the semester - 2 oral presentations according the schedule Exam: Ordinary term: Written exam test. Retake: oral exam only. Written exam test - The final grade is determined by counting the points for the test during semester and the final exam test. Oral exam - The oral exam consists of 4 questions. Each one is evaluated separatly. No question could be graduated Fx for successfull exam. Scale of assessment (preliminary/final): 25% / 75%	
Learning outcomes: The student receives information from specialised bacteriology, virology, parasitology and mycology about the structure, metabolism, pathogenic potential and pathogenesis of human infectious diseases, antibiotics used for the treatment as well as methods of identification. The student is trained to use principal diagnostical procedures, to understand their theoretical background, indication and interpretation. The student is able to manage the most common way of sampling of infectious materials, to process them for microscopiy, cultivation, identification and ATB suscptibility and tools of pathogenity testing. The students knows most important microbial ethiology of infectious of respiratory, gastrointestinal, urogenital tract, skin, soft tissues, central nervous system in different age groups including fetus, newborn, pre-school age children, children, adolescent, adult, geriatric patients, pregnant women and immunocompromised persons.	
Class syllabus: Bacteriology G + cocci staphylococci. streptococci Bacteriology G – cocci neisseria, haemophilus Bacteriology, G - rods, enterobacteriaceae Bacteriology, G - rods, nonfermenting rods Strana: 2 Bacteriology, G + rods, anaerobes	

Spirochetes, chlamydia, mycoplasma Introduction to virology Virology, DNA viruses, RNA viruses Hepatitis viruses, prions, HIV Medical mycology, medical parasitology RTI, STI, GIT and UGT infection – etiology CNS, blood infection, bacterial intoxication – etiology Etiology of infections of newborn, old patient, fetus infection Hospital infection and opportunistic infections etiology Direct and indirect diagnostic methods New approaches in identification of infectious etiology						
Recommended literature: Murray, P.R., Rosenthal, K.S., Tenover, M.A. Medical Microbiology. 7th ed. Philadelphia: Elsevier Saunders, 2013. 874 s. ISBN 978-0-323-08692-9. Murray, P.R., Rosenthal, K.S., Tenover, M.A. Medical Microbiology. 8th ed. Philadelphia: Elsevier Saunders, 2016. 836 s. ISBN 978-0-323-29995-5. Harvey, R. A., Champe, P.C., Fischer, B.D. Lippincott's Illustrated Review Microbiology. Lippincott Williams & Wilkins, 2007. 438 s. ISBN 13: 978-0-7817-8215-9 Greenwood, D., Barer, M., Slack, R., Irving, W. Medical Microbiology. 18th ed. Edinburgh: Elsevier Saunders, 2012. 778 s. ISBN 978-0-7020-4089-4. Neuschlová, M., Kompaníková, J., Sadloňová, V., Nováková, E.: Immunology – basic laboratory tests. Martin : Portal JLF UK 2021; 152 s. ISBN 978-80-8187-110-8. https://portal.jfmed.uniba.sk/articles.php?aid=450 . Neuschlová, M., Nováková, E., Kompaníková, J., Sadloňová, V.: A to Z Glossary of Immunological Terms. Martin : Portal JLF UK 2021; 80 s. ISBN 978-80-8187-088-0. https://portal.jfmed.uniba.sk/articles.php?aid=435 . Reading from MEFANET and faculty web site for microbiology						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 751						
A	ABS0	B	C	D	E	FX
24,5	0,0	38,88	24,63	7,32	4,53	0,13
Lecturers: doc. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., doc. MUDr. Vladimíra Sadloňová, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMBI/J-S-VL-590/17	Course title: Molecular Biology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: JLF.ÚLB I/J-S-VL-513/22 - Medical Biology and Genetics (2) and JLF.ÚLBch/J-S-VL-509/15 - Medical Chemistry (2)	
Recommended prerequisites: Basic knowledge of molecular biology (structure of DNA, replication, transcription, translation) and genetics (Mendelian inheritance).	
Course requirements: 100% participation on seminars and practical, knowledge test - test and project Scale of assessment (preliminary/final): Sum of preliminary results determines the final grade.	
Learning outcomes: The graduate should acquire basic overview about medical molecular biology and molecular genetics and knowledge concerning application of the methods of molecular biology in medicine general, understand the basic principles of molecular diagnostics, precision personalized medicine and interpretation of the results of the molecular-genetic examinations.	
Class syllabus: Organization of the human genome, human genome sequencing projects, basic free accessible databases in medicine. Importance and testing of DNA polymorphisms in pharmacogenetics. . Methods of molecular biology in medicine and diagnostics – PCR, real-time PCR, droplet digital PCR, fragment analysis, Sanger sequencing and next-generation sequencing (NGS). Variant classification according to sequence change and the functional effect, nomenclature for describing variants, gain of function mutations, loss of function mutations. Genetic testing, molecular diagnostics of monogenic disorders, usage of free accessible internet resources and databases (OMIM, ClinVAR, dbSNP). The evolution of cancer, multistep model of carcinogenesis cancer critical genes, driver and passenger mutations. Relevance of the detection of genetic changes for diagnosis, prognosis and therapy prediction in different cancer, methods of molecular biology used in diagnosis and follow-up of cancer, microsatellite instability. Non-invasive molecular diagnostics from circulation – cancer, prenatal testing. Targeted personalized and gene therapy – application of NGS, possibilities and perspectives. Annotation of practical lecture. Practical lectures are carried out in form of seminars with practical demonstrations. Methods of molecular biology – genotyping in pharmacogenetics, SNP and point mutation analysis using PCR, result interpretation from allelic	

discrimination plot and digital PCR. Principles of DNA sequencing according Sanger, application of BLAST for evaluation, , description and interpretation of results, sequencing analysis of point mutation, small deletion and insertion. Examples of molecular diagnostic and result interpretation of monogenic diseases and cancer, working with OMIM, ClinVar.						
Recommended literature: T . Strachan, J. Goodship, P. Chinnery: Genetics and Genomics in Medicine, 2015 by Garland Science, Taylor and Francis Group, NewYork and London (selected chapters) ISBN 978-0-8153-4480-3 www.ncbi.nlm.nih.gov/omim/ - Online Medelian Inheritance in Man Zora Lasabová: Molekulová biológia v medicíne a genetike. Vysokoškolské učebné texty. vydanie. Vydavateľstvo Asklepios 2011. ISBN 978-80-7167-164-0						
Languages necessary to complete the course: English						
Notes: No.						
Past grade distribution Total number of evaluated students: 753						
A	ABS0	B	C	D	E	FX
83,0	0,0	12,88	4,12	0,0	0,0	0,0
Lecturers: doc. RNDr. Zora Lasabová, PhD., doc. Mgr. Tatiana Burjanivová, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.NnK/J-S-VL-616/19		Course title: Neonatological Propedeutics				
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 9.						
Educational level: I.II.						
Prerequisites:						
Course requirements: Final fulfillment of the course completion conditions in the form of continuous evaluation. Scale of assessment (preliminary/final): continuous						
Learning outcomes: At the end of the course students should acquire basic skills in physical examination and screening examination of physiological and pathological newborns, they will learn basic procedures in the diagnosis of pathological conditions. After completing the course, the student is able to assess the state of a physiological newborn in the early postnatal period based on the acquired knowledge.						
Class syllabus: Prvé vyšetrenie a ošetrovanie novorodenca, skríningové vyšetrenia enterálna a parenterálna výživa, vyšetrenie kardiovaskulárneho systému, vyšetrenie respiračného systému, hodnotenie rontgenových snímok						
Recommended literature:						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 22						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Mat’ášová, PhD., MUDr. Tomáš Jurko, PhD., doc. MUDr. Lucia Časnocha Lúčanová, PhD., Mgr. Katarína Chromčíková, PhD., MUDr. Marek Kozár, PhD., MUDr. Zuzana Uhríková, PhD.						
Last change: 29.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.NnK/J-S-VL-588/19		Course title: Neonatology				
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 10.						
Educational level: I.II.						
Prerequisites:						
Course requirements: Final fulfillment of the course completion conditions in the form of continuous evaluation Scale of assessment (preliminary/final): continuous						
Learning outcomes: At the end of the course students should be able to obtain more detailed information about physiological and pathological conditions in neonatology. By solving case reports of patients, they will better understand the issue and also the diversity of clinical manifestations of individual diseases in the neonatal period. The graduate of the course is able to describe the most common pathological situations in neonatology and propose appropriate treatment.						
Class syllabus: care of physiological newborn, newborn with extremely low birth weight, perinatal asphyxia, newborn resuscitation, hypoxic-ischemic encephalopathy, periventricular leukomalacia, intracranial haemorrhage in neonatal period, respiratory diseases in neonatal neonatal nurses, neonatal neonatal nursing, neonatal neonatal disease , case reports						
Recommended literature:						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 168						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Maťašová, PhD., MUDr. Tomáš Jurko, PhD., doc. MUDr. Lucia Časnochová, PhD., Mgr. Katarína Chromčíková, PhD., MUDr. Marek Kozár, PhD., MUDr. Zuzana Uhríková, PhD.						

Last change: 29.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.NIK/J-S-VL-545/18	Course title: Neurology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-537/17 - Internal Medicine Propedeutics (1) and JLF.ÚA/J-S-VL-503/16 - Anatomy (3)	
Course requirements: Attendance at least 6 practicals. Evaluation: A,B,C,D,E. Classification will be based on continual evaluation of knowledges. Commitment of documentation and advocacy of examined patient.	
Learning outcomes: After completion of the subject the student understands basic information about Neurology, about basic examination principles and the ways of the patients examination. Student is able to apply knowledge from the neuroanatomy and physiology of the peripheral and central nervous system. Student will be informed about the way of examination of the particular neurology systems. Student has overview, basic knowledge and principles of the correct indication of the ancillary diagnostic methods in neurology. Student is able to do individual patient examination, basic analysis of the pathological findings, correct syndrome identification and supposed pathology localization. Completion of the subject forms general basic clinical skills.	
Class syllabus: 1. Central and peripheral paralysis – differential diagnosis. Pyramidal tract. Extrapyramidal motoric systems. Cerebellum. 2. Sensoric systems (vision, hearing, smell, taste, touch). Sensitive afferent systems. Cranial nerves. 3. Cerebral cortex and lobar syndromes (frontal, parietal, temporal and occipital). Equilibrium and space orientation (vestibular system, cerebellum, proprioception and visual system). 4. Stroke. Cerebral ischaemia. Thrombosis of cerebral veins and sinuses. 5. Intracranial bleeding (subarachnoideal and parenchymal). Interventional neuroradiology. Hydrocephalus. 6. Brain trauma. Intracranial hypertension. Spinal cord trauma. Peripheral nerves trauma. 7. Brain tumors. Meningeomas. Spinal cord tumors. Peripheral nerves tumors.	
Recommended literature: Mayer, S.A., Marshall,R.S. On Call Neurology E-Book. 4th ed. Elsevier, 2020. 579 s. eISBN 9780323611008	

<p>[https://ebookcentral.proquest.com%9Clib%9Cuniba-ebooks%9Cdetail.action?docID=6039439]https://ebookcentral.proquest.com%9Clib%9Cuniba-ebooks%9Cdetail.action?docID=6039439</p> <p>Drobný, M. et al. Neurology Textbook. Reference Text and Study Guide. Martin: Profa-J. 2015. 656 s. ISBN 978-80-972153-09</p> <p>Daroff, R.B. et al. Bradleys Neurology in clinical in Clinical Practice, Saunders, 6th ed., Vol.2. 2013. 2544 s. ISBN-13:978-1437704341</p> <p>Biller, J. Practical Neurology, LWW, 4th ed. 2012. 748 s. ISBN 978-1451142631</p> <p>Mumenthaler, M. et al. Neurology. Stuttgart: Thieme, 2003. 1008 s. ISBN 3135239047</p>																				
<p>Languages necessary to complete the course: English language</p>																				
<p>Notes:</p>																				
<p>Past grade distribution Total number of evaluated students: 632</p> <table> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> <tr> <td>100,0</td><td>0,0</td><td>0,0</td><td>0,0</td><td>0,0</td><td>0,0</td><td>0,0</td></tr> </table>							A	ABS0	B	C	D	E	FX	100,0	0,0	0,0	0,0	0,0	0,0	0,0
A	ABS0	B	C	D	E	FX														
100,0	0,0	0,0	0,0	0,0	0,0	0,0														
<p>Lecturers: prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Ema Kantorová, PhD., doc. MUDr. Vladimír Nosál, PhD., FESO, prof. MUDr. Štefan Sivák, PhD., MUDr. Monika Turčanová Koprušáková, PhD., MUDr. Jana Dluhá, PhD., doc. MUDr. Milan Grofik, PhD., MUDr. Babeta Hofericová, MUDr. Róbert Ružinák, PhD., MUDr. Pavol Skáčík</p>																				
<p>Last change: 06.04.2022</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.NIK/J-S-VL-546/18	Course title: Neurology (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.NIK/J-S-VL-545/18 - Neurology (1) and JLF.IKG/J-S-VL-538/17 - Internal Medicine Propedeutics (2)	
Recommended prerequisites: Neurology 1, Internal Medicine Propedeutics 2	
Course requirements: Attendance at least 6 practicals. Classification: A,B,C,D,E,Fx will be based on continual evaluation of knowledges. Passing through examination test – minimum 70%. Oral examination. A,B,C,D,E,Fx	
Learning outcomes: After completion of the subject the student understands epidemiology, etiology, pathophysiology, clinical picture, diagnosis, differential diagnosis and treatment of the most common neurological disorders. Student is able to apply all knowledge learned at Neurology (1). Very important is practical application of the knowledge during examination of the patient or during casuistic model evaluation. Student is able to manage the most frequent emergency situations in neurology.	
Class syllabus: 1. Generalized and focal epilepsy. Status epilepticus. EEG and video-EEG investigation. Migraine and other types of headache 2. Parkinson disease. Essential tremor. Dystonias. Neuromodulation – deep brain stimulation. 3. Alzheimer disease and other dementias. Sleep disorders. Neuroinfections (bacterial and viral meningitis, brain abscess, parainfectious and postvaccination encephalitis, neurotropic viruses, mycotic, parasitic and opportunistic nervous system infections). 4. Multiple sclerosis and MS variants. MS therapeutic options in the 21st century. ADEM, NMOSD and anti-MOG syndromes. EP investigation. 5. Cervical, thoracic and lumbar pain syndromes. Radicular syndromes. Spinal stenosis. Spondylosurgery. 6. Guillain-Barré syndrome. EMG investigation. Myasthenia gravis. Muscular dystrophies and polymyositis.	
Recommended literature:	

Mayer, S.A., Marshall, R.S. On Call Neurology E-Book. 4th ed. Elsevier, 2020. 579 s. eISBN 9780323611008
[\[https://ebookcentral.proquest.com/%9Clib/%9Cuniba-ebooks/%9Cdetail.action?docID=6039439\]](https://ebookcentral.proquest.com/%9Clib/%9Cuniba-ebooks/%9Cdetail.action?docID=6039439)<https://ebookcentral.proquest.com/%9Clib/%9Cuniba-ebooks/%9Cdetail.action?docID=6039439>
 Drobný, M. et al. Neurology Textbook. Reference Text and Study Guide. Martin: Profa-J. 2015. 656 s.
 ISBN 978-80-972153-09
 Daroff, R.B. et al. Bradleys Neurology in clinical in Clinical Practice, Saunders, 6th ed., Vol.2. 2013.
 2544 s. ISBN-13:978-1437704341
 Biller, J. Practical Neurology, LWW, 4th ed. 2012. 748 s. ISBN 978-1451142631
 Mumenthaler, M. et al. Neurology. Stuttgart: Thieme, 2003. 1008 s. ISBN 3135239047

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 615

A	ABS0	B	C	D	E	FX
47,48	0,0	20,98	16,1	5,85	5,69	3,9

Lecturers: prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Vladimír Nosál', PhD., FESO, prof. MUDr. Štefan Sivák, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Monika Turčanová Koprušáková, PhD., MUDr. Jana Dluhá, PhD., doc. MUDr. Milan Grofik, PhD., MUDr. Babeta Hofericová, MUDr. Róbert Ružinák, PhD., MUDr. Pavol Skáčík

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.NchK/J-S-VL-619/22	Course title: Neurosurgery
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2,5 / 1 per level/semester: 35 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.NIK/J-S-VL-546/18 - Neurology (2) and JLF.KVVTCh/J-S-VL-522a/22 - Surgical Propedeutics (2)	
Course requirements: The condition for the obtaining the credits from neurosurgery is the 4/5 (80 %) attendance of the practical seminars at Clinic of Neurosurgery. After obtaining the credit, an oral exam follows. After its successful completion, the course is completed.	
Learning outcomes: The graduate has knowledge of pathophysiology, classification, diagnostic and treatment methods for the most common diseases in neurosurgery: degenerative diseases of the spine, spinal and spinal cord injuries, tumors of the spine and spinal cord, craniocerebral injuries, vascular neurosurgery, intracranial tumors, intracranial and intraspinal infections, injuries, entrapment syndromes and tumors of peripheral nerves. Gains basic knowledge of pediatric neurosurgery.	
Class syllabus: Degenerative spinal disease - pathophysiology and biomechanics of the spine affected by the degenerative process. Overview of diagnostic methods and basic spinal surgical procedures. Spinal cord injuries - overview of the mechanics, pathophysiology and classification of spinal cord injuries. Clinical picture, diagnosis and treatment of spinal cord injuries and an overview of basic surgical procedures. Tumors of the spine and spinal cord - focus on an overview of histological types of tumors affecting the spine, spinal cord and spinal canal, diagnostic methods and basic surgical procedures. Craniocerebral injuries - an overview of brain injury management based on an understanding of the pathophysiology and biomechanics of intracranial space and brain injury. Classification of head injuries, characteristics of intracranial hypertension, diagnosis and treatment of brain injuries. Overview of basic neurosurgical procedures in patients with craniocerebral injuries. Vascular neurosurgery - basic characteristics, diagnostics and overview of surgical procedures in intracranial hemorrhage, cerebral ischemia, treatment options for intracranial aneurysms and arteriovenous and other vascular malformations. Intracranial tumors - an overview of histological types of tumors affecting the brain, skull and intracranial space, the use of diagnostic methods and the basic principles of surgical treatment. Characteristics of intraoperative neuromonitoring and awake operations.	

<p>Inflammatory diseases of the intracranial and spine - characteristics, diagnosis and principles of conservative and surgical treatment of inflammatory diseases, such as brain abscess, subdural empyema, epidural and intraspinal abscess, spondylodiscitis and others.</p> <p>Peripheral nerve injuries, entrapment syndromes, peripheral nerve tumors – characteristics, clinical picture, diagnostic tools and an overview of neurosurgical operations.</p> <p>Pediatric neurosurgery - specifics of a pediatric neurosurgical patient, characteristics of congenital developmental defects of CNS and supporting structures, hydrocephalus, CNS tumors in childhood. Specifics of childhood CNS injuries, CNS birth injuries. Overview of basic surgical procedures.</p>																				
<p>Recommended literature:</p> <p>Lectures and seminars</p> <p>Greenberg, Mark S. Handbook of Neurosurgery. New York: Thieme Medical Publishers, 7th edition, 2010, s. 1338, ISBN: 978-1-60406-326-4</p> <p>Agarwal Nitin et al. Neurosurgery Fundamentals. Thieme Medical Publishers Inc. 432p. ISBN: 9781626238220</p>																				
<p>Languages necessary to complete the course:</p>																				
<p>Notes:</p>																				
<p>Past grade distribution</p> <p>Total number of evaluated students: 209</p> <table border="1"> <thead> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>67,46</td><td>0,0</td><td>22,01</td><td>9,09</td><td>0,96</td><td>0,48</td><td>0,0</td></tr> </tbody> </table>							A	ABS0	B	C	D	E	FX	67,46	0,0	22,01	9,09	0,96	0,48	0,0
A	ABS0	B	C	D	E	FX														
67,46	0,0	22,01	9,09	0,96	0,48	0,0														
<p>Lecturers: prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Romana Richterová, PhD., MUDr. René Opšenák, PhD., MUDr. Gabriela Mičurová</p>																				
<p>Last change: 07.04.2022</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KNM/J-S-VL-623/21	Course title: Nuclear Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBf/J-S-VL-504/15 - Medical Biophysics and JLF.ÚA/J-S-VL-503/16 - Anatomy (3)	
Course requirements: Active 100% participation on practicals, successful final test (12 or more correct answers to 20 questions, grades according to actual scoring).	
Learning outcomes: Basic overview about the Nuclear medicine procedures and knowledge about the radiation safety rules.	
Class syllabus: 1. History of Nuclear medicine, theoretical introduction. Principles of radioactivity, radiobiology, radionuclide therapy, radioanalytical methods, emission and hybrid imaging. Differences among the Radiology, Radiotherapy and Nuclear Medicine. 2. Principles of radiation safety, manipulation with unsealed radioactive sources, department trip. 3. Bone scintigraphy. 4. Diagnostic Nuclear Medicine in oncology diseases. Benefits of PET and hybrid methods, sentinel node diagnostics. 5. Nuclear cardiology. 6. Less common Nuclear Medicine diagnostics in non-oncological indications excluding bones and heart (studies of lungs, kindeys, CNS, GIT, glands etc.). 7. Radionuclide therapy, theranostics, inpatient care in Nuclear Medicine.	
Recommended literature: Nuclear Medicine Guide (living publication of European Association of Nuclear Medicine, online since 2018): https://www.eanm.org/publications/european-nuclear-medicine-guide/ Kim C.K.: Nuclear Medicine and PET/CT Cases, https://global.oup.com/academic/product/nuclear-medicine-and-petct-cases-9780199773695?cc=sk&lang=en&# Actual materials (presentations) given durint practicals or available online on MEFANET.	
Languages necessary to complete the course:	
Notes:	

Past grade distribution						
Total number of evaluated students: 303						
A	ABS0	B	C	D	E	FX
2,64	0,0	22,11	31,68	32,67	10,89	0,0
Lecturers: MUDr. Hubert Poláček, PhD., doc. MUDr. Kamil Zeleňák, PhD., MUDr. Martin Števík, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KPLT/J-S-VL-574/19	Course title: Occupational Medicine and Toxicology
Educational activities: Type of activities: practicals Number of hours: per week: 1 per level/semester: 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-539/19 - Internal Medicine (1)	
Course requirements: obligatory participation in seminars and final test Scale of assessment (preliminary/final): final test	
Learning outcomes:	
Class syllabus: 1. Professional diseases - definition, overview, national and international list of occupational diseases. System for the assessment, reporting and compensation of occupational diseases. The job description of department or clinic of occupational medicine, the role of occupational health service in the system of care for the health of employees. Preventive medical examinations. Occupational diseases of the respiratory system - Pneumoconiosis. 2. Overview of diseases after exposure to physical factors of the working environment - occupational diseases from long-term, excessive and repetitive load of limbs, diseases from vibrations. Health damage from over noise and ionizing and nonionizing radiation. 3. Occupational diseases after exposure to toxic and carcinogenic metals, organic solvents, toxic gases, pesticides. 4. Occupational cancers. Professional allergic diseases - rhinitis, asthma bronchiale, hypersensitive pneumonitis. 5. Examination, diagnosis and treatment of patients with professional health damage.	
Recommended literature: 1. Buchancová a kol. Pracovné lekárstvo a toxikológia. Martin, Osveta, 2003, 1133s. 2. LaDou, J.: Current Occupational and Environmental Medicine. Mc Grax-Hill Education Europe, 2007, 846 s. 3. Krutý, F., Buchancová, J.: Pracovné lekárstvo a toxikológia. Environmentálne pľúcne choroby. Poškodenia zdravia z fyzikálnych faktorov. V: Ďuriš, I., s kol.: Princípy internej medicíny SAP Bratislava, 2001, 2951 s. 4. Osina, O., Sadloňová, J.: Toxikológia - vybrané kapitoly - druhé doplnené vydanie. Vysokoškolské skriptá, 2020	

5. Pelclová, D. a kol.: Nemoci z povolání a intoxikace. Praha, Karolinum. 2002, 207 s.
6. Rom, W.N. : Environmental and Occupational Medicine, Philadelphia, 2007, 1884 s.
7. Harbison, R.D. (Editor): Hamilton and Hardy's Industrial Toxicology. N.J.: John Wiley and Sons, 6th ed., 2015, 1339 s.
8. Levy, Barry, S.: Occupational and Environmental Health. Oxford: Oxford University Press, 6th ed., 2011, 854s.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 467

A	ABS0	B	C	D	E	FX
53,75	0,0	31,91	10,92	3,0	0,43	0,0

Lecturers: doc. MUDr. Oto Osina, PhD., MUDr. Juliana Prindešová Bušíková, PhD.

Last change: 07.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHCh/J-S-VL-640/22	Course title: Oncology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Internal Medicine Propedeutics 2, Pathological Anatomy 2	
Course requirements: The condition for obtaining the credit is 66% (2/3) participation in the overall study (lectures + practical exercises), written test, minimum success rate: 60%. Rating: A: 95% - 100%, B: 88% - 94%, C: 77% - 87%, D: 66% - 76%, E: 60% - 65%, Fx: 60% and less. Scale of assessment (preliminary/final): Test	
Learning outcomes: By completing the course the students will obtain data about the epidemiological situation of oncological diseases in Slovak Republic and in the world, knowledge of individual exogenous and endogenous risk factors. They will also get acquainted with proven genetic factors, their diagnosis as well as the basics of personalized treatment. Students will obtain an overview of basic diagnostic and therapeutic, as well as preventive methods in cancer diseases.	
Class syllabus: <ul style="list-style-type: none"> - Terminology, epidemiology of malignant tumors. - Basics of etiopathogenesis of malignant tumors. - Importance of molecular biology and genetics. - TNM classification. - Acquisition of basic skills in the examination of patients with cancer. - Overview of the most common diagnostic methods for malignant tumors. - Overview of treatment modalities with a multidisciplinary approach to determining treatment strategy. - Basics of chemotherapy, radiotherapy, surgical and supportive treatment of tumors, complications. - Screening and prevention of malignant tumors. - In the field of special oncology - main aspects of epidemiology, etiopathogenesis, clinical picture, diagnostics, therapy of the most common selected cancers. 	

Recommended literature:

Recommended selected chapters from the following publications:

DeVita, Hellman, and Rosenberg's. Cancer: Principles & Practice of Oncology, 11th Edition, WoltersKluwer 2018, ISBN/ISSN 9781496394637, 2432 p

Niederhuber, Armitage, Doroshow, Kastan and Tepper. Abeloff's Clinical Oncology 6th Edition, Elsevier 2020, ISBN 978-0-323-47674-4, 2072 p

Drilon, Postow, Vasan and Carlo. Pocket Oncology (Pocket Notebook) Second Edition, WoltersKluwer 2018, ISBN : 9781496391039, 374 p

Languages necessary to complete the course:

English

Notes:**Past grade distribution**

Total number of evaluated students: 10

A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Anton Dzian, PhD., MUDr. Jana Gabajová, MUDr. Marián Ďuroška, MUDr. Monika Pěčová, MUDr. Ivan Kecskés

Last change: 29.03.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.OK/J-S-VL-568/19	Course title: Ophthalmology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 1 per level/semester: 42 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-503/16 - Anatomy (3) and JLF.ÚFy/J-S-VL-516/16 - Physiology (2)	
Course requirements: The student assessment is undertaken with oral examination consisting of 3 questions. The assessment of answer is A, B, C, D, E, FX. Minimum grade for passing an exam: E.	
Learning outcomes: After completion of the subject the student fully understands the anatomy and physiology of the eye, its peri-ocular structures and visual pathways. The student understands the theory and is able to apply knowledge in the basics of ophthalmic anamnesis in children, adults and elderly patients. The student is able to analyze and identify special diagnostic techniques in ophthalmology as well as imaging methods (CT, MRI, ultrasound). The graduated student deeply understands issues of refractive errors and its correction with lenses and surgery. After completion of the subject the student is able to identify the mechanisms leading to a decline in visual function caused by pathological changes of the eye and visual pathways. The student fully understands the pathophysiology, diagnosis, treatment and prognosis of the most prevalent retinal diseases like diabetic retinopathy, age related macular degeneration and retinal detachment. After completing the course the graduate is able to apply knowledge based on the history and basic tests to diagnose the most common eye diseases and different types of injuries or trauma. After completion of the subject the student understands the therapeutic principles of ocular diseases and ophthalmic surgical treatment and is able to identify the early signs of post operative complications like infections, haemorrhages and hypertension. The graduate understands and is able to practice first aid for eye injuries, including burns and perforations.	
Class syllabus: 1. Anatomy and physiology of the eye and orbit, refractive errors and correction. Basics in refraction, retinoscopy, Keratometry, assesement of visual acuity with and without correction. ETDRS optotypes. Theory and practise with slit lamp. 2. Diseases of cornea, sclera and conjunctiva. Examination of the cornea and conjunctiva with the slit lamp, Placido rings keratotomy. Swab collection techniques for conjunctival samples. 3. Uveitis (anterior, intermediate and posterior). Ophthalmic presentations of HIV.	

<p>Examination of anterior chamber and vitreous with slit lamp, fundoscopy, direct and indirect ophthalmoscopy.</p> <p>4. Disease of the orbit, eyelids and tear ducts. Eyelids examination and function assessment of m.levator palp.sup., exophthalmometry, syringing of the tear ducts. Tear film assessment – Schirmer and B.U.T. test.</p> <p>5. Disease of the retina (hereditary, diabetic retinopathy, hypertension retinopathy, Age related macular degeneration, Full thickness macular hole, Central serous chorioretinopathy, Retinopathy of prematurity). Ophthalmoscopy, optical coherence tomography, fluorescein angiography, Amsler chart, Colour vision test.</p> <p>6. Disease of the transparent media, crystalline lens and cataract surgery. Examination of the red papillary reflex and transparent media. Optic and ultrasound biometry, phacoemulsification.</p> <p>7. Glaucoma. Dynamic and static perimetry. Tonometry (Goldman, Schiotz, non-contract). Gonioscopy. HRT II, GDx, OCT RNFL.</p> <p>8. Red eye syndrome – dif. dg.(hyposphagma, Conjunctivitis, Uveitis, acute glaucoma). Slit lamp examination, first AID for eye injury and caustication, eyelid eversion.</p> <p>9. Neuro-ophthalmology and paediatric ophthalmology, optic neuropathy, and defects of visual pathways. Pupillary defects. Strabismus. Amblyopia. Children ophthalmic examination and screening. VEP, EMG, external ocular motility, examination of diplopia and strabismus.</p> <p>10. Retinal detachment, ocular tumours, dif.dg. of</p>																				
<p>Recommended literature:</p> <ul style="list-style-type: none"> - Jack Kanski, Brad Bowling. Clinical Ophthalmology: A Systematic Approach, 7th Edition. Saunders 2011. -Adam T. Gerstenblith, Michael P. Rabinowitz et al. The wills eye manual. 6th edition. Lippincott Williams & Wilkins, Philadelphia 2012 - David J. Spalton et al. Atlas of clinical optalmology. 3rd edition. Oxford, Mosby 2005. - Myron Yanoff, Jay S. Duker. Ophthalmology. 3rd edition. Mosby 2009. 																				
<p>Languages necessary to complete the course: english language</p>																				
<p>Notes:</p>																				
<p>Past grade distribution Total number of evaluated students: 461</p> <table border="1"> <thead> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>51,19</td><td>0,0</td><td>30,37</td><td>14,1</td><td>2,39</td><td>1,95</td><td>0,0</td></tr> </tbody> </table>							A	ABS0	B	C	D	E	FX	51,19	0,0	30,37	14,1	2,39	1,95	0,0
A	ABS0	B	C	D	E	FX														
51,19	0,0	30,37	14,1	2,39	1,95	0,0														
<p>Lecturers: MUDr. Peter Žiak, PhD., MUDr. Juraj Halička, PhD.</p>																				
<p>Last change: 07.04.2022</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.OTK/J-S-VL-570/22	Course title: Ortopedics
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2,5 / 2 per level/semester: 35 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ChKTC/J-S-VL-524/22 - Surgery (2)	
Course requirements: 100% participation in practical exercises with the possibility of one excused absence is required. Replacement of missing practical exercises is possible up to 20% of the total number, with the consent of the head of the department (in accordance with the Study Regulations and the regulation of the Dean of Jessenius Faculty of Medicine Comenius University in Martin). For each unjustified non-participation, it is necessary to prepare a paper on a given topic in the range of 1500 words. Lectures are available in storage of Jessenius Faculty of Medicine Scale of assessment (preliminary/final): The final evaluation will consist of the final grade, which is calculated as the arithmetic average of the grades for the practical exam (patient examination and medical examination), for the test and for the final oral exam (2 questions). Evaluation of the test: A: 91-100 %, B: 81-90 %, C: 73-80 %, D: 66-72 %, E: 60-65 %, Fx: less than 60 %	
Learning outcomes: Students gain an overview of diseases and injuries of the musculoskeletal system. Become familiar with developmental and acquired diseases, specificities of developmental diseases, their diagnosis and treatment options, focusing on prevention and screening examinations, become familiar with therapeutic options of skeletal trauma, can separately consider the possible therapeutic approaches based on the interpretation of X-ray findings. Acquire basic algorithms of treatment of acute skeletal trauma. After completing the course student is able to diagnose basic degenerative diseases of the skeleton and suggest possible treatment. Has a complete overview of the current state of knowledge and surgical treatment options, as well of reconstructive and acute orthopedics.	
Class syllabus: - Introduction to clinical examination of the musculoskeletal system, basic inspection, manual examination and special examination methods. - Principles of conservative treatment - neurophysiological effects, physiotherapy, occupational therapy, ortho-prosthetics. - Principles of surgical treatment. - Pathophysiology of fractures and soft tissue injuries, therapeutic procedures and principles of treatment.	

- Diagnosis and treatment of bone tumours, tumours of muscles and tendons by anatomical site.
- Diagnosis and treatment of congenital and acquired diseases of skeletal system.
- Diagnosis and treatment of diseases of the upper limb, including damage to muscles, tendons and fractures.
- Diagnosis and treatment of pelvic fractures and diseases - congenital dysplasia (DDH), conservative and surgical treatment.
- Diagnosis and treatment of diseases of the lower limb, including damage to muscles, tendons and fractures.
- Basic principles of arthroplasty.
- Congenital deformities of the spine and rib cage, their diagnosis and treatment.
- Degenerative diseases of the spine, diagnosis - possibilities of conservative and surgical treatment.
- Diagnosis and treatment of diseases of the musculoskeletal system in children.
- Orthopedic diseases of senile age, treatment options.

Recommended literature:

Essential Orthopaedics and Trauma, 5th Edition, David J. Dandy and Dennis J. Edwards, Imprint: Churchill Livingstone, ISBN: 978-0-443-06718-, Copyright: 200, 504 Pages

Review of Orthopaedics, 6th Edition, Mark D. Miller, Stephen R. Thompson and Jennifer Hart, Reference

Imprint: Saunders, ISBN: 978-1-4377-2024-2, Copyright: 2012, 896 Pages

Handbook of Fractures, Kenneth A. Egol, Kenneth J. Koval, Joseph David Zuckerman, Philadelphia: Lippincott Williams & Wilkins, 2006. ISBN: 0-7817-9009-, 3 Pp. 685

Oxford Handbook of Orthopaedics and Trauma, Gavin Bowden, Martin McNally, Simon Thomas, and Alexander Gibson, ISBN: 978-0-19-856958-9, 02 September 2010, 656 pages, AO Foundation Surgery Reference

Rockwood and Green's Fractures in Adults 7th Edition, Robert W. Bucholz, Charles M. Court-Brown, James D. Heckman, Paul Tornetta III, Lippincott Williams & Wilkins, 2010. ISBN 978-1-60547-677-3

Campbells Operative Orthopaedics, 13th Edition, Frederick M. Azar, James H. Beaty, S. Terry Canale, Elsevier, 2017. ISBN: 978-0-323-37462-0

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 204

A	ABS0	B	C	D	E	FX
47,55	0,0	33,33	14,71	3,43	0,98	0,0

Lecturers: MUDr. Zoltán Cibula, PhD., doc. MUDr. Maroš Hrubina, PhD., MUDr. Michal Chmúrny, PhD., MUDr. Stanislav Křivánek, PhD., MUDr. Marian Melišík, PhD., MUDr. Jozef Almási, PhD., MPH, MUDr. Marek Rovňák, PhD., MUDr. Martin Feranec, PhD.

Last change: 12.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KORL/J-S-VL-569/19	Course title: Otorhinolaryngology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 1 per level/semester: 42 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-503/16 - Anatomy (3) and JLF.ÚFy/J-S-VL-516/16 - Physiology (2) and JLF.KVVTCh/J-S-VL-522a/22 - Surgical Propedeutics (2)	
Course requirements: Condition - completed practical lessons at 100%. At least 20% of practical lessons can be justified. Compensation for missed pract.lessons will usually be made in the credit week. Scale of assessment (preliminary/final): Student Assessment conducted by a practical exam, test with 10 questions a final oral answer – 2 questions. Overall Rating A, B, C, D, E, Fx. Minimum threshold for success: E.	
Learning outcomes: Completing the course the student obtains detailed information about the anatomy and physiology of the external nose, nasal cavity, pharynx, larynx, statoacoustic organ, oesophagus and tracheobronchial area / ENT organs /. Theory and in practice will become familiar with the basics of history and special investigative techniques in Otorhinolaryngology / ENT / and using imaging methods (CT, MRI, ultrasound) in diseases of ENT organs. Graduated understand the possibilities of diagnosis, treatment and prognosis of diseases of ENT organs. After completing the course can based on the history and basic ENT examination to diagnose the disease. Graduated understand the principles of therapy of ENT diseases, including the most common types of surgical treatment. He is able to understands and is able to practice first aid in acute diseases of ENT organs.	
Class syllabus: 1./Nasal and paranasal cavities - anatomy, physiology, pathology, history, examnation, therapy 2./Pharynx and oral cavity - anatomy, physiology , pathology, history, examnation, therapy 3./Larynx - anatomy, physiology, pathology, history, examnation, therapy 4./Suffocation in E.N.T. , E.N.T. surgery 5./ Ear I - anatomy, physiology, pathology, history, examnation, therapy 6./ Ear II - hearing examination /speech, tuning forks, audiometry/ , vestibular system 7./ E.N.T.endoscopy 8./ Medical record ,individual work with patient,varia 9./ Operation room, varia 10./ Medical record ,individual work with patient,varia	

Recommended literature: 1.Becker,W. et al.: Ear, Nose, and Throat Diseases , Thieme,1994 ,583pp. 2.Colman, H.B.: Hall Colman's Diseases of the nose, Throat and Ear,and Head and neck.,Churchill 3. https://portal.jfmed.uniba.sk/autori.php?tid=134 - elektronické skriptá EN: https://portal.jfmed.uniba.sk/clanky.php?aid=494 - electronic scripts EN: https://portal.jfmed.uniba.sk/clanky.php?aid=459 - electronic scripts						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 462						
A	ABS0	B	C	D	E	FX
67,32	0,0	15,8	9,52	3,03	4,11	0,22
Lecturers: prof. MUDr. Andrej Hajtman, PhD., doc. MUDr. Vladimír Čalkovský, PhD.						
Last change: 16.02.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPA/J-S-VL-533/17	Course title: Pathological Anatomy (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 4 / 3 per level/semester: 56 / 42 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-501/17 - Anatomy (1) and JLF.ÚA/J-S-VL-502/15 - Anatomy (2) and JLF.ÚHE/J-S-VL-505/15 - Histology and Embryology (1)	
Course requirements: I. to absolve succesfully at least 13 of 14 practical lectures/seminars. Student has to appologize the absence immediatelly and personally. Appologized absences (more than 1) require to absolve given practicum in the last compensatory 15th week of the WS, II. successful completing of the central test at the level of at least 12 of 20 available points (i.e. 60%) a III. successful completing of all 6 „small“ tests at the level of at least 18 of 30 available points (i.e. 60%). Scale of assessment (preliminary/final): Tests	
Learning outcomes:	
Class syllabus: Introduction to pathology. Methods in pathology. Death and post.mortal changes. Regressive changes: Necrosis, apoptosis, atrophy. Intracellular and extracellular errors of metabolism of lipids, carbohydrates and proteins. Pathology of inflammation: causes, manifestations, types. Exsudative superficial and interstitial inflammation. Alterative inflammation. Proliferative inflammation. Healing and reparative processes. Progressive changes: Hypertrophy, hyperplasia, metaplasia, adaptation. Granulomatous and „specific“ inflammation. Global circulatory disorders: causes and manifestations. Local circulatory disorders. Introduction to oncological pathology I.: terminology, histogenesis, oncogenesis. Introduction to oncological pathology II.: dignity, grading, staging. Epithelial tumors – classification, typing and grading. Mesenchymal tumors – classification, typing and grading. Praecanceroses. Dysplasias of the squamous and glandular epithelium. Neuroectodermal tumorus: classification, typing and grading. Teratomas. Melanocytic proliferations and neoplasms. Immunopathology: classification, immune defects, autoimmune diseases. Transplantation pathology. Immunity of neoplastic diseases. Hyperergic immunopathologic diseases – connective tissue diseases. Tumours of the blood, haematopoietic and lymphoid tissues – introduction. Myelodysplastic syndromes and myeloproliferative neoplasias.	
Recommended literature: <ul style="list-style-type: none"> • Underwood J.C.E.: General and systematic pathology. Edinbourgh, Churchill Livingstone 2000 • Rubin E., Farber J.L.: Pathology. J.B.Lippincott, Philadelphia 1994 	

- Harish Mohan: Textbook of Pathology, seventh edition, ISBN 9789351523697, 2015
- Vinay Kumar, M.D., Abul K. Abbas, Jon C. Aster: Rubin's Basic Pathology, ISBN 978-0-8089-2432-6
- Milikowski C., Berman I.: Color atlas of basic histopathology. Appleton and Lange, Stamford 1997
- Damjanov I., Linder J.: Pathology. A Color Atlas. Mosby, 2000
- Cotran R. S., Robbins S.L., Kumar V.: Basic Pathology. Philadelphia: W.B. Saunders, 2002, ISBN 0-7216- 5122-4
- Mačák J.: General Pathology. Masaryk University 2008, ISBN 978-80-210-4549-1

Languages necessary to complete the course:
english languageovak

Notes:

Past grade distribution

Total number of evaluated students: 767

A	ABS0	B	C	D	E	FX
5,74	0,0	17,6	26,99	29,07	19,95	0,65

Lecturers: MUDr. Tomáš Balhárek, PhD., prof. MUDr. Katarína Adamicová, PhD., MUDr. Michal Kalman, PhD., MUDr. Petra Kolenčíková, PhD., MUDr. Juraj Marcinek, PhD., MUDr. Jozef Mičák, PhD., MUDr. Katarína Lešková, PhD., MUDr. Katarína Tobášová

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPA/J-S-VL-534/17	Course title: Pathological Anatomy (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 4 per level/semester: 70 / 56 Form of the course: on-site learning	
Number of credits: 10	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-503/16 - Anatomy (3) and JLF.ÚHE/J-S-VL-506/16 - Histology and Embryology (2) and JLF.ÚPA/J-S-VL-533/17 - Pathological Anatomy (1)	
Course requirements: Test Scale of assessment (preliminary/final): Credit Test	
Learning outcomes:	
Class syllabus: Malignant lymphomas. Pathology of the heart I. (ICHS, myocardial infarction, valvular anomalies). Pathology of the heart II. (Hypertrophy and dilatation of the heart and cardiomyopathy). Atherosclerosis - causes, pathogenesis, manifestations and complications. Inflammatory bronchial and pulmonary diseases (focal and diffuse pneumonias). Interstitial lung diseases, fibrosis of the lungs. Tumours of the lungs. Diseases of the oral cavity, salivary glands and oesophagus. Diseases of the stomach and duodenum (inflammations, peptic ulcer disease, tumours). Diseases of the small and large bowel (malabsorption, inflammations, tumours). Diseases of the liver (hepatitis, cirrhosis, tumours) and exocrine pancreas. Pathology of the breast (non-neoplastic and neoplastic diseases). Glomerulonephritis (etiology, pathogenesis, classification). Interstitial nephritis (etiology, pathogenesis, classification). Tumours of the kidney. Pathology of the cervix and corpus uteri (non-neoplastic and neoplastic diseases). Pathology of the ovary and Fallopian tube (non-neoplastic and neoplastic diseases). Pathology of the prostate, urinary bladder, testis. Non-neoplastic blood disorders. Pathology of the endocrine system. Pathology of the skin. Pathology of the CNS I (ischaemia, bleeding, vascular changes). Pathology of the CNS II (prion's diseases, degenerative diseases). Pathology of HIV infection and of AIDS. Pathology of selected clinical conditions. Pathology of the pregnancy. Perinatal pathology. Disorders of the bones and joints.	
Recommended literature: <ul style="list-style-type: none"> • Underwood J.C.E.: General and systematic pathology. Edinburgh, Churchill Livingstone 2000 • Rubin E., Farber J.L.: Pathology. J.B.Lippincott, Philadelphia 1994 • Harish Mohan: Textbook of Pathology, seventh edition, ISBN 9789351523697, 2015 • Vinary Kumar, M.D., Abul K. Abbas, Jon C. Aster: Rubin's Basic Pathology, ISBN 978-0-8089-2432-6 	

- Milikowski C., Berman I.: Color atlas of basic histopathology. Appleton and Lange, Stamford 1997
- Damjanov I., Linder J.: Pathology. A Color Atlas. Mosby, 2000
- Cotran R. S., Robbins S.L., Kumar V.: Basic Pathology. Philadelphia: W.B. Saunders, 2002, ISBN 0-7216- 5122-4
- Mačák J.: General Pathology. Masaryk University 2008, ISBN 978-80-210-4549-1

Languages necessary to complete the course:
english language

Notes:

Past grade distribution

Total number of evaluated students: 800

A	ABS0	B	C	D	E	FX
13,75	0,0	24,38	26,5	12,88	10,75	11,75

Lecturers: MUDr. Tomáš Balhárek, PhD., prof. MUDr. Katarína Adamicová, PhD., MUDr. Michal Kalman, PhD., MUDr. Petra Kolenčíková, PhD., MUDr. Juraj Marcinek, PhD., MUDr. Jozef Mičák, PhD., prof. MUDr. Lukáš Plank, CSc., MUDr. Katarína Lešková, PhD., MUDr. Katarína Tobiášová

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚLBch/J-S-VL-555/18	Course title: Pathological Biochemistry
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Lectures	
Course requirements: Evaluation of students is accomplished by written examination, minimal success level: 65 %. Evaluation : A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 59 % and less	
Learning outcomes: Passing subject student gets larger knowledge about patobiochemical mechanisms and definition of molecular changes leading to main types of inherited and acquired clinically relevant disorders. Student will be familiarized with the principles of disorders linked with regulation of metabolic pathways and will understand rules of disordered cellular homeostasis. Passing the subject also contributes to understanding of relations between altered regulation and clinico-biochemical identification of pathological processes. The knowledges obtained from lectures and practicals can be applied by student in the study of etiology, diagnosis and therapy of main human diseases.	
Class syllabus: -Molecular basis of cell death and cancer -Molecular methods of detection of DNA and protein disorders -Inherited metabolic disorders -Pathobiochemistry of diabetes mellitus and atherosclerosis -Ischemia of CNS -Pathobiochemistry of neuro-degenerative diseases -Pathobiochemistry of heart and circulation -Pathobiochemistry of acid-base regulation, inflammation and connective tissue	
Recommended literature: Patronos G.P., Ansorge W.J. Molecular Diagnostics, Elsevier, 2010, 598s Harpers Biochemistry, McGraw Hill, 2000 Cecils Textbook of medicine, Saunders, 1992 Pathophysiology of diseases, Lange, 2010, 762s	
Languages necessary to complete the course:	

English						
Notes:						
Past grade distribution						
Total number of evaluated students: 86						
A	ABS0	B	C	D	E	FX
90,7	0,0	0,0	9,3	0,0	0,0	0,0
Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Ján Lehotský, DrSc.						
Last change: 18.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-535/17	Course title: Pathological Physiology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-515/16 - Physiology (1)	
Course requirements: Assessment of students is carried out in the form of 2 tests of continuous assessment of the study, minimum passing score is 73%. Assessment scale: A: 96-100%, B: 90-95%, C: 84-89%, D: 79-83%, E: 73-78%, FX: 72% and less. Active participation in practicals (100%). Analysis of virtual case studies. Scale of assessment (preliminary/final): Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The graduate of the course will understand the mechanisms of origin, development and termination of pathological processes related to homeostasis disorders, changes in organism reactivity, development and complications of diabetes mellitus and cerebral ischemia. Based on the analysis of virtual case studies, student is able to solve the pathomechanisms of the most common symptoms and signs of homeostasis disorders. The student can apply the knowledge gained from seminars and practicals to solve health problems of patients with disorders of homeostasis, immunity, thermoregulation, systemic inflammatory response, pain, circulatory shock, disorders of consciousness and dysfunction of the arterial and venous system of the lower extremities. The graduate of the course is able to identify the essential and basic pathomechanisms of these disease processes.	
Class syllabus: Introduction to pathophysiology – definition, main tasks of pathophysiology in medical education, content, organization and forms of the teaching process. Health and disease – the concept of health and disease, illness and disease, stages and time course of the disease, aetiology of health, aetiology of the disease. General etiopathogenesis of diseases - noxae and mechanisms of their influence on the body, physical, chemical. biological and social factors, the role of apoptosis, genetics and disorders in autoregulation in pathogenesis. Mechanism leading to fluid and electrolyte balance disturbances, their consequences - movement of body fluids and electrolytes across the cell membrane and among body fluid compartments; regulation of body fluid and electrolytes and its disturbances; volume imbalances, osmolality imbalances, dehydration, hyperhydration, edema.	

Disorders of acid base balance - regulation of pH in extracellular fluid, compensatory responses to alterations in pH, metabolic acidosis and alkalosis, respiratory acidosis and alkalosis, mixed acid-base disorders, the influence of pH disorders on functions of the body systems.

Role of the changed reactivity of the body in the pathogenesis of diseases - mechanisms responsible for physiological reactivity of the body, for development of hyperreactivity and hyporeactivity.

Stress – mechanisms responsible for the development of stress reaction; the role of stress in health protection and pathogenesis of diseases.

Inflammation as a protective and auto-aggressive process, systemic inflammatory response of the body (SIRS) - local inflammation versus SIRS, SIRS – causes, mechanisms, consequences. SIRS and sepsis.

Pathophysiology of nutrition – mechanisms involved in the development of obesity and malnutrition - classification, consequences for body organs and systems functions. Disturbances of lipids, proteins, and purines metabolism – pathomechanisms involved in the development of hyper- and hypolipidemias, hyper- and hypoproteinemias; hyperuricemia: consequences.

Pathophysiology of pain - definitions, classifications of pain; neuroanatomy and neurophysiology of pain; theory of pain onset, neuromodulation of pain; acute and chronic pain; visceral and somatic pain; disturbances in pain nociception and perception, the importance of pain in body defence and pathogenetic mechanisms of disease development.

Pathophysiology of carbohydrate metabolism; diabetes mellitus (DM) - disturbances in carbohydrate digestion; DM – definitions, classifications, etiopathogenesis, pathomechanisms involved in the development of DM and its symptoms and signs; acute and chronic complications of DM – mechanisms involved in their development.

Pathophysiology of circulatory shock - definitions and general pathomechanisms involved, stages of shock, types of shock, reversible and irreversible stages, effects of shock on the function of body organs and systems.

Pathophysiology of cerebral ischemia - definition, causes and mechanisms involved in the development of brain ischemia – a blood pressure decrease, rheologic properties of blood and microcirculation, collateral circulation, no-reflow phenomenon, the threshold of ischemic injury, ischemic penumbra, diaschisis, ischemic brain edema, consequences of brain ischemia.

Dysfunction of arterial and venous circulation in lower extremities - arterial occlusion by thrombosis, embolism, vasospastic diseases – causes, mechanisms, consequences. Deep venous thrombosis, thrombophlebitis, chronic venous insufficiency, causes, mechanisms, consequences, lymphedema.

Pathophysiology of pulmonary and visceral circulation - differences between pulmonary and systemic circulation, the pathogenesis of pulmonary hypertension, pathophysiology of pulmonary embolism, pulmonary shunts, disturbances of the blood circulation in the GIT – causes, mechanisms, consequences.

Pathophysiology of blood - anaemia, polycythaemia, leukaemia – classification, causes, mechanisms, consequences. Most common disturbances of coagulation, causes, mechanisms and consequences.

Pathophysiology of ageing and terminal stages - definitions, mechanisms responsible for ageing of tissues and organs, changes of organs and systems of the body due to ageing. Mechanisms involved in terminal stages development, symptoms and signs of terminal stages.

Pathophysiology of immunity - disturbances of immunity, their role in the pathogenesis of diseases.

Pathophysiology of thermoregulation - fever, hyperthermia, hypothermia, mechanisms involved in onset and development, changes of body functions, positive and negative consequences; burns and frostbites - mechanisms of development, manifestations.

Pathophysiology of disorders of consciousness.

Recommended literature:

Hammer GD, McPhee SJ. Pathophysiology of Disease. An Introduction to Clinical Medicine. McGraw-Hill, 2018. 832 s. ISBN 978-1260026504

Silbernagl S., Lang F. Color Atlas of Pathophysiology. Thieme, Stuttgart, 2016. 448 s. ISBN 978-3131165534

Seifter JL, Walch EC, Sloane DE. Integrated Physiology and Pathophysiology. Elsevier, 2021. 544 s. ISBN 978-0323597326

Plevkova J., Hanacek J., Tatar M., Brozmanova M., Buday T. Pathological physiology, selected chapters. 2017. JFM CU - Mefanet portal <https://portal.jfmed.uniba.sk/articles.php?aid=371>

Tatár M., Hanáček J. Pathophysiology - Topics for Seminars. Bratislava: Comenius University, 2001. 220 s. ISBN 80-223-1582-6

Plevkova J., Hanacek J. Dysfunction of the electrophysiological processes in the heart – mechanisms and manifestation. Textbook, 2016, JFM CU - Mefanet portal <https://portal.jfmed.uniba.sk/articles.php?aid=334>

Heuter, S.E., McCance K.L. Understanding of Pathophysiology. 5th ed. Elsevier, 2012. 1159 s. ISBN 978-0-323-07891-7

Hampton J, Hampton J. The ECG Made Easy. 9th Edition. Elsevier Science, 2019. 207 s. ISBN 978-0702074578

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 756

A	ABS0	B	C	D	E	FX
17,86	0,0	49,34	27,12	4,63	1,06	0,0

Lecturers: prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., prof. RNDr. Mariana Brozmanová, PhD., MUDr. Tomáš Buday, PhD., Mgr. Danica Jurčáková, PhD., MUDr. Peter Kunč, PhD., RNDr. Michal Pokusa, PhD.

Last change: 11.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-536/17	Course title: Pathological Physiology (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 3 per level/semester: 42 / 42 Form of the course: on-site learning	
Number of credits: 7	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-516/16 - Physiology (2) and JLF.ÚPF/J-S-VL-535/17 - Pathological Physiology (1)	
Course requirements: Assessment of students is carried out in the form of 2 tests of continuous assessment of the study, minimum passing score is 74%. Assessment scale: A: 96-100%, B: 90-95%, C: 85-89%, D: 79-84%, E: 74-78%, FX: 73% and less. Active participation in practicals (100%). Evaluation of ECG recording, including its pathogenetic analysis. Oral examination. Scale of assessment (preliminary/final): Scale of assessment (preliminary/final): 10/90	
Learning outcomes: The graduate of the course will understand the mechanisms of origin, development and termination of pathological processes related to cardiac circulatory disorders, arterial and venous circulatory disorders of lower extremities, pulmonary and visceral circulation, obstructive diseases of the respiratory system, kidney diseases leading to their insufficiency, underlying liver disorders and underlying endocrine, gastrointestinal and blood disorders. Based on an evaluation of pathological electrocardiographic records, student can address electrical disorders of the heart during arrhythmias and myocardial ischemia and hypertrophy; student can solve basic disorders of ventilation insufficiency based on the analysis of spirometric records. Student can analyse pathomechanisms of disorders of mechanical function of the heart leading to its failure, disorders of external ventilation, disorders of oxygen supply to the body and disorders of glomerular and tubular kidney function. Student can also analyse the causes of the most important symptoms and signs of cardiovascular, respiratory and renal diseases. The graduate of the course is able to identify the essential and basic pathomechanisms of the above disease processes.	
Class syllabus: Disturbances of blood pressure regulation - systemic arterial hypertension, mechanisms of development of primary and secondary hypertension, mechanisms of development of complications in subjects with arterial hypertension. Systemic arterial hypotension. Ischemic heart disease - mechanisms of development of ischemic heart disease, mechanisms of disturbances of electrophysiology and mechanical function of the heart caused by ischemia, atherosclerosis as the main pathogenic factor of ischemic heart disease, mechanisms of reperfusion injury.	

Pathophysiology of heart failure - mechanisms leading to the onset and progression of heart failure responsible for systolic and diastolic dysfunction of the heart, acute and chronic heart failure, right and left-side heart failure, mechanisms leading to the manifestation of heart failure.

Pathomechanisms involved in the development of the most common symptoms and signs of cardiovascular diseases.

Pathophysiology of valvular heart diseases.

Disturbances of external ventilation - lung ventilation and mechanisms involved in its disturbances – alveolar hyper- and hypoventilation; extrapulmonary and intrapulmonary mechanisms involved in lung ventilation disturbances, in the distribution of air in the lung, in the diffusion of gases across the alveolo-capillary membrane, in lung perfusion; in ventilation-perfusion ratio, consequences of lung ventilation disturbances for exchange of gases in the lung.

Pathophysiology of obstructive pulmonary diseases - pathogenesis of bronchial asthma - pathogenesis, symptoms, and signs, pathomechanisms involved in the exchange of gases in the lung. Chronic obstructive pulmonary disease (COPD) – pathogenesis; main mechanisms involved in disturbances of gas exchange in COPD.

Hypoxia - causes and mechanisms involved in the development of main types of hypoxia; compensatory mechanisms, influence of hypoxia on different organs and systems of the human body.

Hyperoxia - causes and mechanisms involved in the development of hyperoxia, main mechanisms responsible for the negative influence of hyperoxia on tissues.

Respiratory failure (RF) - causes, main consequences of RF – hypoxaemia and hypercapnia; mechanisms responsible for the development of symptoms and signs.

Pathomechanisms of the most important symptoms and signs of respiratory diseases.

Lung function tests.

Disturbances of respiratory system defence mechanisms.

Pathophysiology of glomerular and tubular dysfunction - causes and mechanisms of glomerular dysfunction, consequences of this disorder for renal function and for the internal environment of the organism. Causes and mechanisms of renal tubule dysfunction - water and ion resorption disorders, osmotic diuresis, H⁺ ion secretion disorder, nephrotic syndrome.

Pathophysiology of acute and chronic renal failure - causes of acute and chronic renal failure, disturbances in homeostasis in renal failure – uremic syndrome, mechanisms responsible for multiorgan dysfunction in acute and chronic renal failure.

Pathomechanisms of the most important symptoms and signs arising from renal diseases

Pathophysiology of the gastrointestinal tract - pathogenesis of gastric and duodenal ulcers, the pathophysiology of the small and large intestine.

Pathophysiology of liver - basic functions of the liver; hepatic insufficiency and its consequences.

Portal hypertension. Hepatopulmonary syndrome.

Disorders of the endocrine system - general effects of hormones; causes and mechanisms involved in the development of disturbances in hypothalamic-pituitary system, in thyroid function, in the function of the adrenal cortex, and in the function of the parathyroid gland; mechanisms involved in the development of symptoms and signs related to mentioned disturbances.

Electrophysiology of the heart. Its manifestation on the electrocardiogram, waves, deflections, intervals, segments, the algorithm of evaluation of ECG record – rhythm, rate, electrical axis - their physiological changes.

Pathogenetic analysis of ECG records with disturbances of impulse formation, disturbances of impulse conduction, in myocardial infarction and chronic ischemic heart disease, in hypertrophy and dilation of atria and ventricles of the heart and in changes in plasma electrolyte levels.

Recommended literature:

Hammer GD, McPhee SJ. Pathophysiology of Disease. An Introduction to Clinical Medicine. McGraw-Hill, 2018. 832 s. ISBN 978-1260026504

Silbernagl S., Lang F. Color Atlas of Pathophysiology. Thieme, Stuttgart, 2016. 448 s. ISBN 978-3131165534

Seifter JL, Walch EC, Sloane DE. Integrated Physiology and Pathophysiology. Elsevier, 2021. 544 s. ISBN 978-0323597326

Plevkova J., Hanacek J., Tatar M., Brozmanova M., Buday T. Pathological physiology, selected chapters. 2017. JFM CU - Mefanet portal <https://portal.jfmed.uniba.sk/articles.php?aid=371>

Tatár M., Hanáček J. Pathophysiology - Topics for Seminars. Bratislava: Comenius University, 2001. 220 s. ISBN 80-223-1582-6

Plevkova J., Hanacek J. Dysfunction of the electrophysiological processes in the heart – mechanisms and manifestation. Textbook, 2016, JFM CU - Mefanet portal <https://portal.jfmed.uniba.sk/articles.php?aid=334>

Heuter, S.E., McCance K.L. Understanding of Pathophysiology. 5th ed. Elsevier, 2012. 1159 s. ISBN 978-0-323-07891-7

Hampton J, Hampton J. The ECG Made Easy. 9th Edition. Elsevier Science, 2019. 207 s. ISBN 978-0702074578

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 742

A	ABS0	B	C	D	E	FX
39,76	0,0	21,83	19,95	9,57	8,09	0,81

Lecturers: prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., prof. RNDr. Mariana Brozmanová, PhD., MUDr. Tomáš Buday, PhD., MUDr. Peter Kunč, PhD.

Last change: 11.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-547/22	Course title: Pediatric Propedeutics
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-537/17 - Internal Medicine Propedeutics (1) and JLF.ÚHE/J-S-VL-506/16 - Histology and Embryology (2) and JLF.ÚPF/J-S-VL-535/17 - Pathological Physiology (1)	
Course requirements: 90% attendance at lectures and practical and theoretical exam Scale of assessment (preliminary/final): practical and theoretical exam	
Learning outcomes: : Student will get the knowledge about the growth physiology, child development and the nutrition in particular age categories. He will know theoretically and practically the principles of basic examination of paediatric patient in all the age categories and he will be able to detect the physiological and pathological findings by physical examination of the body systems. The student after the subject attendance will get the skills to describe particular laboratory and imaging techniques and tests used in paediatrics and we will know the normal values of basic biochemical and haematological examinations in childhood.	
Class syllabus: Principles of physical examination in paediatrics and peculiarities of paediatric documentation First examination and nursing of new-born Screening examination in neonatal age New-born classification Examination of child with cardiovascular disease Examination of child with respiratory disease Examination of child with gastrointestinal disease Examination of child with diseases of endocrine system Examination of child with uropoetic disease Examination of child with disease of musculoskeletal system Basic principles of neurologic examination of child, indications and evaluation of cerebrospinal liquor sampling Basic diagnostic and therapeutic algorithms in paediatric, vascular accesses, punctures, lavages, infusions, transfusions Basic laboratory tests interpretation	

Principles of examination in clinical immunology and allergology Metabolisms of water and main electrolytes						
Recommended literature: Šagát, T., Šašínska, M., Kovács, L., Bánovčín, P. a kol. Pediatria I,II. Bratislava: Herba 2019. 1736 s. ISBN 978-80-89631-90-2 Jakušová Ľ., Buchanec, J., Bánovčín, P. a kol.: Dorastové lekárstvo. Martin: Osveta, 1: vydanie, 2014. ISBN 978-80-8063-419-3 Jeseňák, M., Bánovčín, P. a kol. Vrodené poruchy imunity. Bratislava: A-medi manažment s.r.o. 2014 580 s. ISBN 978-80-970825-6-7 K. Matášová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254s., ISBN: 9788089694808 L.Časnocha Lúčanová: Infekcie novorodencov. P+M Turany, 2019, 120s., ISBN: 9788089694600 Bánovčín, P., Zibolen, M. a kol. Základné informácie o materskom mlieku a dojčení pre pracovníkov v zdravotníctve. Bratislava: A-medi manažment s.r.o. 2016, 112 s. ISBN:978-80-89797-17-2 Fedor, M. a kol.: Intenzívny péče v pediatrii. Osveta, 2006, 461 s., ISBN 8080632170 European Resuscitation Council Guidelines 2021. voľne dostupný internetový zdroj: https://cprguidelines.eu/ Nichols, D.G. a kol.: Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s. Časopis Pediatria /vyd. SAMEDI Bratislava						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 213						
A	ABS0	B	C	D	E	FX
56,34	0,0	22,07	13,62	3,29	4,23	0,47
Lecturers: prof. MUDr. Peter Bánovčín, CSc., doc. MUDr. Ľubica Jakušová, PhD., doc. MUDr. Zuzana Havlíčková, PhD., prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA, doc. MUDr. Slavomír Nosál, PhD., doc. MUDr. Miriam Kuricová, PhD., prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Matášová, PhD., MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., MUDr. Stanislava Suroviaková, PhD., MUDr. Lenka Turoňová, PhD., MUDr. Jarmila Vojtková, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDCh/J-S-VL-586/19	Course title: Pediatric Surgery
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Surgery 2	
Course requirements: a) Successful completion of all seminars and practical exercises. b) Elaboration of a seminar work on a topic corresponding to state examination from pediatric surgery. Scale of assessment (preliminary/final): continuous	
Learning outcomes: The graduate knows the concept, content and basics of pediatric surgery, its diagnostic and examination methods, basic therapeutic procedures and techniques. The graduate knows the most common and most serious congenital and acquired surgical diseases of children. He is familiar with the specifics of childhood and the main differences in the management of pediatric and adult surgical patients.	
Class syllabus: Lectures focused on the specifics of surgical diseases in childhood, neonatal surgery, principles of fetal surgery and the specifics of chest and abdominal trauma in children. Practical exercises aimed at acquiring basic skills in handling surgical instruments, classical and laparoscopic suturing, working at the patient's bedside, in the operating room and the pediatric surgery clinic. Seminar work focused on specific surgical diseases of childhood in the range of state examination in pediatric surgery.	
Recommended literature: Dragula M.: Moderné trendy v detských chirurgických odboroch 1-3. 1.vyd. Turany : Tlačiareň P +M, 2019. ISBN 978-80-7228-747-5 Šnajdauf J, Škába R et al: Dětská chirurgie. 1. vyd. Praha : Karolinum, 2005. 395 s. ISBN 80-7262-329-X Vidiščák, M. a kol: Novorodenecká chirurgia I. Krivá : M-SERVIS s.r.o., 2008. 225 s. ISBN 978-80-969978-1-7	

<p>Šnajdauf, J., Cvachovec, K., Trč, T. et al: Detská traumatologie. Praha : Galén, 2002. 180 s. ISBN 80-7262-152-1</p> <p>Puri P.: Pediatric Surgery I, II. Berlin : Springer-Verlag, 2020. 658 s. ISBN 978-3-662-43587-8</p> <p>Davenport M., Geiger J.: Operative Pediatric Surgery. 8th ed. New York : CRC Press, 2020. 887 p. ISBN 978-0-815-37000-0</p> <p>Puri p., Hollwarth M.E.: Pediatric Surgery. 2nd ed. Berlin : Springer-Verlag, 2019. 664 p. ISBN 78-3-662-56280-2</p> <p>Puri P: Newborn Surgery. 2. vyd. London : Arnold, 2003, 955 s. ISBN 0-340-76144-X</p> <p>Grosfeld JL, O'Neill JA jr, Fonkalsrud EW, Coran AG: Pediatric Surgery I., II., 6. vyd. Philadelphia : Mosby Elsevier, 2006. 2146 s. ISBN 13 978-0-323-02842-4</p> <p>Journal of Pediatric Surgery</p> <p>Seminars in Pediatric Surgery</p>																				
<p>Languages necessary to complete the course:</p> <p>English</p>																				
<p>Notes:</p>																				
<p>Past grade distribution</p> <p>Total number of evaluated students: 179</p> <table> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> <tr> <td>94,97</td><td>0,0</td><td>4,47</td><td>0,56</td><td>0,0</td><td>0,0</td><td>0,0</td></tr> </table>							A	ABS0	B	C	D	E	FX	94,97	0,0	4,47	0,56	0,0	0,0	0,0
A	ABS0	B	C	D	E	FX														
94,97	0,0	4,47	0,56	0,0	0,0	0,0														
<p>Lecturers: MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Milan Dragula, PhD., doc. MUDr. Dalibor Murgaš, PhD.</p>																				
<p>Last change: 14.03.2022</p>																				
<p>Approved by:</p>																				

STATE EXAM DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-SVL-SS54/21	Course title: Pediatrics
Number of credits: 4	
Educational level: I.II.	
Recommended prerequisites: Pediatrics 3	
Course requirements: The student will answer three theoretical questions in front of an examining committee.	
Learning outcomes: A graduate masters the basics of medical examination with the use of simple instruments, basic laboratory and examination methods and interpretation of their results, diagnostics, differential diagnostics and therapy of most common illnesses of child age. In case of life threatening conditions a graduate knows the basics of administering qualified help.	
Class syllabus: A graduate has good theoretical and practical clinical skills, which will help him/her to provide medical care at inpatient/in house children ward as a secondary doctor/resident under the expert guidance of experienced doctor. The curriculum places importance on most important and most common differential diagnostic problems in pediatric medicine as well as recognition of most common birth defects of child age and pathological conditions of newborns.	
State exam syllabus:	
Recommended literature: Behrman, R. E. Kliegman, R.M., Jenson, H.B. Nelson Textbook of Pediatrics. Philadelphia: W. B. Saunders Comp., 2011. ISBN 978143770755 Lissauer, T., Clayden, G. Illustrated textbook of Paediatrics. 2004. 410 s. ISBN 0-7234-3178-7 Behrman, R.E. Essentials of Pediatrics. Philadelphia: W.B.Saunders Comp., 2000. 795 pp. Allen, Hugh D. et al. Moss and Adams' Heart Disease in Infants, Children and Adolescents, Including the Fetus and Young Adult. Philadelphia: Lippincott Williams & Wilkins, 2001. 1468 pp.	
Languages necessary to complete the course: English language	
Last change: 22.07.2021	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-571/19	Course title: Pediatrics (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.KDD/J-S-VL-547/22 - Pediatric Propedeutics	
Course requirements: 90% attendance of the practicals; elaboration of the complete medical record at the last practical lesson with the active discussion about the patients's evaluation with the teacher Scale of assessment (preliminary/final): monitoring student activity	
Learning outcomes: The student acquires the basic theoretical and clinical knowledge in the diagnosis and treatment of diseases referred in Brief syllabus, with focusing on their specifications in different age periods.	
Class syllabus: Gastroesophageal reflux disease, diagnosis and treatment Physiological newborn Acute conditions in endocrinology Vasculitis and differential diagnosis of arthralgia in childhood Acute dehydration - etiology and treatment in children Malabsorption and malnutrition in childhood Valvular heart diseases in childhood Fever in children, differential diagnosis and treatment	
Recommended literature: Šagát, T., Šašinka, M., Kovács, L., Bánovčin, P. a kol. Pediatria I,II. Bratislava: Herba 2019. 1736 s. ISBN 978-80-89631-90-2 Jakušová Ľ., Buchanec, J., Bánovčin, P. a kol.: Dorastové lekárstvo. Martin: Osveta, 1: vydanie, 2014. ISBN 978-80-8063-419-3 Jeseňák, M., Bánovčin, P. a kol. Vrodené poruchy imunity. Bratislava: A-medi manažment s.r.o. 2014 580 s. ISBN 978-80-970825-6-7 K. Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254s., ISBN: 9788089694808 L.Časnocha Lúčanová: Infekcie novorodencov. P+M Turany, 2019, 120s., ISBN: 9788089694600 Bánovčin, P., Zibolen, M. a kol. Základné informácie o materskom mlieku a dojčení pre pracovníkov v zdravotníctve. Bratislava: A-medi manažment s.r.o. 2016, 112 s. ISBN:978-80-89797-17-2 Fedor, M. a kol.: Intenzívna péče v pediatrii. Osveta, 2006, 461 s., ISBN 8080632170 European Resuscitation Council Guidelines 2021. voľne dostupný internetový zdroj: https://cprguidelines.eu/	

Nichols, D.G. a kol.: Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s. Časopis Pediatria /vyd. SAMEDI Bratislava						
Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 472						
A	ABS0	B	C	D	E	FX
99,58	0,21	0,0	0,21	0,0	0,0	0,0
Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA, MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., doc. MUDr. Zuzana Havlíčková, PhD., MUDr. Stanislava Suroviaková, PhD., MUDr. Lenka Turoňová, PhD., MUDr. Jarmila Vojtková, PhD., doc. MUDr. Slavomír Nosál', PhD., prof. MUDr. Katarína Maťašová, PhD., prof. MUDr. Mirko Zibolen, CSc.						
Last change: 07.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-572/19	Course title: Pediatrics (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.KDD/J-S-VL-571/19 - Pediatrics (1)	
Course requirements: 90% attendance at practicals, medical record work out at last practical and active discussion with the teacher during practicals Scale of assessment (preliminary/final): monitoring of student's activity	
Learning outcomes: Student will get the theoretical and practical knowledge in diagnosis, differential diagnosis and treatment of selected disorder with attention to their special features in different age periods.	
Class syllabus: Vomiting and abdominal pain – differential diagnosis Inflammatory bowel disorders Inflammatory heart disease Acute respiratory insufficiency, ARDS Acute states in pediatrics: acute renal failure, acute liver failure, acute pancreatitis, diabetic ketoacidosis Chnges in complete blood count, anemias an trombocytopenias in childhood Autoimmune disorders in childhood, Immune system in childhood ant itd disorders Intensive care in neonatology	
Recommended literature: Šagát, T., Šašinka, M., Kovács, L., Bánovčín, P. a kol. Pediatria I,II. Bratislava: Herba 2019. 1736 s. ISBN 978-80-89631-90-2 Jakušová Ľ., Buchanec, J., Bánovčín, P. a kol.: Dorastové lekárstvo. Martin: Osveta, 1: vydanie, 2014. ISBN 978-80-8063-419-3 Jeseňák, M., Bánovčín, P. a kol. Vrodené poruchy imunity. Bratislava: A-medi manažment s.r.o. 2014 580 s. ISBN 978-80-970825-6-7 K. Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254s., ISBN: 9788089694808 L.Časnocha Lúčanová: Infekcie novorodencov. P+M Turany, 2019, 120s., ISBN: 9788089694600 Bánovčín, P., Zibolen, M. a kol. Základné informácie o materskom mlieku a dojčení pre pracovníkov v zdravotníctve. Bratislava: A-medi manažment s.r.o. 2016, 112 s. ISBN:978-80-89797-17-2 Fedor, M. a kol.: Intenzivní péče v pediatrii. Osveta, 2006, 461 s., ISBN 8080632170	

European Resuscitation Council Guidelines 2021. voľne dostupný internetový zdroj: <https://cprguidelines.eu/>

Nichols, D.G. a kol.: Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s.

Časopis Pediatria /vyd. SAMEDI Bratislava

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 464

A	ABS0	B	C	D	E	FX
99,78	0,0	0,0	0,22	0,0	0,0	0,0

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA, MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., doc. MUDr. Zuzana Havlíčková, PhD., MUDr. Stanislava Suroviaková, PhD., MUDr. Lenka Turoňová, PhD., MUDr. Jarmila Vojtková, PhD., doc. MUDr. Slavomír Nosál', PhD., prof. MUDr. Katarína Maťašová, PhD., prof. MUDr. Mirko Zibolen, CSc.

Last change: 07.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-573/22	Course title: Pediatrics (3)
Educational activities: Type of activities: practicals Number of hours: per week: per level/semester: 240s Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 11., 12..	
Educational level: I.II.	
Prerequisites: JLF.KDD/J-S-VL-572/19 - Pediatrics (2) and JLF.KDD/J-S-VL-580/19 - Summer Practice-Pediatrics	
Course requirements: Exam consist of practical part - medical record work out at last practical and active discussion with the teacher during practicals	
Learning outcomes: Absolvent has practical skills in child care, from admission to the hospital to discharge. Separate implementation of the history and physical examination. Proposal for diagnostic procedures, their interpretation, differential diagnosis. &work with medical documentation. Graduate knows basic diagnostic and treatment algorithms for the most common pediatric diseases.	
Class syllabus: Work at the department and in ambulance. Assisting in numerous diagnostic and therapeutics procedures. Work with documentation, admission and discharge of patients. Evaluation of laboratory findings, biochemical tests, X-rays and ECG. Active participation in ward rounds, seminars and two duties within six hours.	
Recommended literature: Šagát, T., Šašinka, M., Kovács, L., Bánovčin, P. a kol. Pediatria I,II. Bratislava: Herba 2019. 1736 s. ISBN 978-80-89631-90-2 Jakušová Ľ., Buchanec, J., Bánovčin, P. a kol.: Dorastové lekárstvo. Martin: Osveta, 1: vydanie, 2014. ISBN 978-80-8063-419-3 Jeseňák, M., Bánovčin, P. a kol. Vrodené poruchy imunity. Bratislava: A-medi manažment s.r.o. 2014 580 s. ISBN 978-80-970825-6-7 K. Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254s., ISBN: 9788089694808 L.Časnocha Lúčanová: Infekcie novorodencov. P+M Turany, 2019, 120s., ISBN: 9788089694600 Bánovčin, P., Zibolen, M. a kol. Základné informácie o materskom mlieku a dojčení pre pracovníkov v zdravotníctve. Bratislava: A-medi manažment s.r.o. 2016, 112 s. ISBN:978-80-89797-17-2 Fedor, M. a kol.: Intenzívni péče v pediatrii. Osveta, 2006, 461 s., ISBN 8080632170	

European Resuscitation Council Guidelines 2021. voľne dostupný internetový zdroj: <https://cprguidelines.eu/>

Nichols, D.G. a kol.: Roger's textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s.

Časopis Pediatria /vyd. SAMEDI Bratislava

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 177

A	ABS0	B	C	D	E	FX
79,1	0,56	15,82	4,52	0,0	0,0	0,0

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA, MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., doc. MUDr. Zuzana Havlíčková, PhD., MUDr. Stanislava Suroviaková, PhD., MUDr. Lenka Turoňová, PhD., MUDr. Jarmila Vojtková, PhD., doc. MUDr. Slavomír Nosál', PhD., prof. MUDr. Katarína Matášová, PhD.

Last change: 07.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFa/J-S-VL-529/21	Course title: Pharmacology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.ÚPF/J-S-VL-535/17 - Pathological Physiology (1) and JLF.ÚLBch/J-S-VL-511/17 - Medical Biochemistry (2)	
Course requirements: 1. To participate actively on the practical sessions; 2. To pass 2 written tests during the semester or one final test in the end of semester. The minimal limit of successfulness: 60 %. Assessment: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, Fx: 60 % and lower. 3. Pharmacotherapeutic plan presentation. Scale of assessment (preliminary/final): 50/50	
Learning outcomes: The student graduated a subject knows: The basic pharmacokinetic principles (absorption, distribution, biotransformation and elimination of drugs) and factors influencing the fate of drugs in the organisms; The essential of pharmacodynamics –mechanisms of drugs action from the molecular to the level of the organism; Drugs prescription – the rules and methods for prescription of brand products (HVLP) as well the basics of individually prepared medicinal products (ILP); The following special pharmacology topics: <ul style="list-style-type: none"> • Pharmacology of the autonomic nervous system; • Respiratory system; • Gastrointestinal system; • Anticancer agents; • Immunopharmacology; • Autacoids Pharmacology (histamine, serotonin, prostanoids, CGRP); • Drugs affect the metabolism of hormones, homeostasis of minerals, bone metabolism; • Pharmacology of vitamins. The main properties of drugs are characterised from the following point of view: mechanism of action, indications, contraindications, side effects, essential interactions and dosage.	
Class syllabus: General Pharmacology:	

- Introduction to pharmacology: basic definitions, kinds of therapy, the route of drug administrations; Drug metabolism: absorption, distribution, metabolism, elimination and excretion of drugs; The basic pharmacokinetic parameters; Basics of pharmacodynamics: mechanism of drug action, the drug action at the molecular level; Factors influencing pharmacokinetic and pharmacodynamic of drugs, endogenous and exogenous factors determined drug effect.
- Basics of drugs prescription:
 - Pharmacopoeia, classification and nomenclature of drugs, ways of administration, prescription, rules for drugs prescribing – trade products, extemporaneous drugs, opiates, antibiotics;
 - Prescription of liquid drug forms – trade products, basics of extemporaneous drugs;
 - Prescription of solid and soft drug forms – trade products, basics of extemporaneous drugs;
 - Special Pharmacology:
 - Pharmacology of ANS: parasympathomimetics, parasympatholytics; sympathomimetics; sympatholytic;
 - Pharmacology of GIT: treatment of peptic ulcer disease and inflammatory bowel disease, antiemetics, emetics, prokinetic agent, spasmolytics, treatment of diarrhoea, laxatives, pancreatic enzymes, drugs affecting the function of the bile ducts;
 - Pharmacology of respiratory system: treatment of asthma and COPD, antitussives and expectorants;
 - Hormones: pancreatic hormones and antidiabetic drugs, adrenal hormones, sex hormones and contraceptives, the hypothalamus and pituitary hormones, thyroid hormones and antithyroid drugs;
 - Drugs affecting homeostasis of minerals, bone metabolism, vitamins;
 - Principles of anticancer pharmacotherapy;
 - Pharmacology of autacoids (histamine antagonists, treatment of allergies, drugs affecting serotonin metabolism, CGRP, migraine treatment, drugs affecting prostaglandins);
 - Fundamentals of immunopharmacology (immunosuppression, immunomodulation);
 - Clinical trials of drugs;
 - Practical lessons aimed at the application of acquired knowledge obtained from the subjects Pharmacology 1. in clinical cases.

Recommended literature:

Rang HP, Dale MM, Ritter JM.: Pharmacology. 9th ed., Churchill Livingstone, 2019.
 Rang HP, Dale MM: Pharmacology. 8th ed., Churchill Livingstone, 2015.
 Katzung, B.G.: Basic Clinical Pharmacology, 15th edition, New York : McGraw-Hill, 2015.
 Katzung, B.G.: Basic Clinical Pharmacology, 19 th edition, New York : McGraw-Hill, 2021.
www.ema.europa.eu

Languages necessary to complete the course:

English

Notes:

Past grade distribution

Total number of evaluated students: 332

A	ABS0	B	C	D	E	FX
42,47	0,0	38,55	13,25	4,22	1,51	0,0

Lecturers: prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Mgr. Juraj Mokřý, PhD., prof. MUDr. Martina Šutovská, PhD., doc. MUDr. Marta Jošková, PhD., PharmDr. Martin Kertys, PhD., Mgr. Eduard Gondáš, PhD., Mgr. Matúš Dohál, PhD.

Last change: 04.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFa/J-S-VL-530/21	Course title: Pharmacology (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.ÚFa/J-S-VL-529/21 - Pharmacology (1) and JLF.ÚPA/J-S-VL-534/17 - Pathological Anatomy (2) and JLF.ÚPF/J-S-VL-536/17 - Pathological Physiology (2)	
Course requirements: During semester: The successful passing three written tests or one final test; Presentation of Pharmacotherapeutic plan. Final exam: Written test and oral examination (Content of final exam: General and Special Pharmacology, Drug prescription). The minimal limit of successfulness: 60 %. Assessment: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, Fx: 60 % and lower. Scale of assessment (preliminary/final): 30/70	
Learning outcomes: Graduate of the subject Pharmacology 2 masters: Pharmacotherapy of diseases of the cardiovascular system, CNS, management of pain, rational use of antimicrobial drugs. He masters the principles of pharmacotherapy of pain and inflammation, the basics of poison treatment, the specifics of pharmacotherapy in selected groups of patients. Individual parts of Special pharmacology are focused on the characteristics of representatives of selected pharmacological groups in terms of mechanism of action, indication, contraindications, adverse reactions, serious interactions, pharmacokinetic parameters and dosage.	
Class syllabus: Pharmacology of CNS: Classification of the receptor systems and drugs; Hypnotics and Sedatives; Anxiolytics; Antidepressants; Antimanics; Antipsychotics; Nootropic and Cognitive substances; Anticonvulsants; Antiparkinsonic drugs; Drugs used in anaesthesiology: General anaesthetics; Local anaesthetics; Muscle relaxants; Premedication. - Pharmacology of CVS: Therapy of hypertension; Therapy of heart failure; Antiarrhythmic drugs; Treatment of angina pectoris; Peripheral vasodilators; Anticoagulants; Thrombolytics; Prevention and therapy of CVS diseases; Antithrombotics; Lipid-lowering agents; Pharmacotherapy of obesity. - Antimicrobial substances: ATB (Inhibitors of bacterial cell wall synthesis, Inhibitors of protein and nucleic acid synthesis); Antituberculotics; Antifungal agents; Anthelmintics; Antimalarial; Antiviral drugs.	

- Treatment of pain and inflammation: Opioid analgesics and adjuvant therapy; Non-opioid analgesics; Principles of pain treatment; NSAIDs, Antirheumatics, Antiuratic drugs.
- Principles of toxicology: Treatment of drug poisoning; Drug addiction and addiction therapy.
- Specifics of pharmacotherapy in selected groups of patients: Specifics of pharmacotherapy in Paediatrics, Geriatrics.
- Practical lessons aimed at the application of acquired knowledge obtained from the subjects Pharmacology 2. in clinical cases.

Recommended literature:

Rang HP, Dale MM, Ritter JM.: Pharmacology, 9th edition., Churchill Livingstone, 2019.
 Rang HP, Dale MM: Pharmacology, 8th edition., Churchill Livingstone, 2015.
 Katzung, B.G.: Basic Clinical Pharmacology, 15th edition, New York : McGraw-Hill, 2015.
 Katzung, B.G.: Basic Clinical Pharmacology, 19th edition, New York : McGraw-Hill, 2021.
www.ema.europa.eu

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 299

A	ABS0	B	C	D	E	FX
15,72	0,0	21,07	21,74	15,38	17,73	8,36

Lecturers: prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Martina Šutovská, PhD., prof. MUDr. Mgr. Juraj Mokrá, PhD., doc. MUDr. Marta Jošková, PhD., PharmDr. Martin Kertys, PhD., Mgr. Eduard Gondáš, PhD., Mgr. Matúš Dohál, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KPF/J-S-VL-561/19	Course title: Phthisiology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Type, volume, methods and workload of the student - additional information Lecture/Practical Extent (in hours) – per week:0,5/0,5 Method – attendance form or online form according to the epidemiological situation	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ÚMI/J-S-VL-518/17 - Microbiology (2) and JLF.ÚFa/J-S-VL-530/21 - Pharmacology (2) and JLF.IK1/J-S-VL-541/19 - Internal Medicine (3)	
Course requirements: 1. To attend practicals. 2. To pass through the final evaluation. The final evaluation is performed by means of a written or online test. Scale of assessment (preliminary/final): 0,5/0,5 C (1 Credit)	
Learning outcomes: Student learns the current knowledge on epidemiology, clinical picture, diagnostics, differential diagnostics, treatment, and prevention of tuberculosis.	
Class syllabus: Lectures: 1. Tuberculosis. Etiology, Epidemiology, Pathogenesis, Clinical Manifestation 2. Tuberculosis. Diagnostics, Classification. 3. Treatment of tuberculosis. Extrapulmonary tuberculosis. Non-tuberculous mycobacteriosis. Practical: In the case of contact teaching: 1. Examination of Patients with consequent discussion moderated by the teacher. Focus on symptoms and signs, diagnostics, differential diagnostics and treatment plan. 2. Demonstration of typical cases by the teacher. Discussion of diagnostics, differential diagnostics and treatment of presented cases. After the second practical the credit test will be performed online in the term agreed with the students.	
Recommended literature:	

Raviglione MC. Tuberculosis. In: Jameson J, Fauci AS, Kasper DL, Hauser SL, Longo DL, Loscalzo J. eds. Harrison's Principles of Internal Medicine, 20e. McGraw Hill; 2018.
<https://accessmedicine.mhmedical.com/content.aspx?bookid=2129§ionid=192023354>
 Frieden T. Toman, s Tuberculosis. Case Detection, Treatment and Monitoring. Geneva: WHO, 2004, 350 pp. ISBN 92 4 154603 4.

Languages necessary to complete the course:

english

Notes:

Past grade distribution

Total number of evaluated students: 420

A	ABS0	B	C	D	E	FX
72,14	0,0	18,1	5,71	2,86	1,19	0,0

Lecturers: doc. MUDr. Robert Vyšehradský, PhD., MUDr. Anna Bobčáková, MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ivana Lipták Žiačiková

Last change: 04.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV1/22	Course title: Physical Education (1)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus: Deepen the base of collective games knowledge (basketball, volleyball, football, floorball, hockeyball). Explain and show the rules on examples. Collective games needs integration of individual ability and skills for its profit to the whole collective. All listed games support the active life style and offer progress of balance between physical and mental work of students at medical faculty.	
Recommended literature: Lubor Tománek , Teória a didaktika basketbalu Ludmila Zapletalová, Vladimír Přidal, Peter Mačura, 1996 Teória a didaktika volejbalu	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 177	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	

Last change: 08.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV2/22	Course title: Physical Education (2)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus: Deepen the base of collective games knowledge (basketball, volleyball, football, floorball, hockeyball). Explain and show the rules on examples. Collective games needs integration of individual ability and skills for its profit to the whole collective. All listed games support the active life style and offer progress of balance between physical and mental work of students at medical faculty.	
Recommended literature: Lubor Tománek , Teória a didaktika basketbalu Ludmila Zapletalová, Vladimír Přidal, Peter Mačura, 1996 Teória a didaktika volejbalu	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 164	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	

Last change: 08.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV3/22	Course title: Physical Education (3)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus: Deepen the base of collective games knowledge (basketball, volleyball, football, floorball, hockeyball). Explain and show the rules on examples. Collective games needs integration of individual ability and skills for its profit to the whole collective. All listed games support the active life style and offer progress of balance between physical and mental work of students at medical faculty.	
Recommended literature: Lubor Tománek , Teória a didaktika basketbalu Ludmila Zapletalová, Vladimír Přidal, Peter Mačura, 1996 Teória a didaktika volejbalu	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 121	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	

Last change: 08.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV4/22	Course title: Physical Education (4)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus: Deepen the base of collective games knowledge (basketball, volleyball, football, floorball, hockeyball). Explain and show the rules on examples. Collective games needs integration of individual ability and skills for its profit to the whole collective. All listed games support the active life style and offer progress of balance between physical and mental work of students at medical faculty.	
Recommended literature: Lubor Tománek , Teória a didaktika basketbalu Ludmila Zapletalová, Vladimír Přidal, Peter Mačura, 1996 Teória a didaktika volejbalu	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 127	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	

Last change: 08.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFy/J-S-VL-515/16	Course title: Physiology (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 4 per level/semester: 70 / 56 Form of the course: on-site learning	
Number of credits: 9	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-501/17 - Anatomy (1)	
Course requirements: 1. Completion of 93% of practical exercises and active participation in practical exercises 2. Passing two tests of continuous assessment of the study with at least 60% success (Physiology of Blood, Physiology of nervous system, senses and muscles). 3. Preparation of at least one power-point presentation on selected topic Scale of assessment (preliminary/final): 100/0	
Learning outcomes: The graduate gain a knowledge and understands the functions of the human body on the molecular, subcellular, cellular, tissue, organ and system levels up to an integrated - holistic understanding of the functions of a healthy organism in interaction with society and nature - environmental factors. After completing Physiology 1, he/she understands the functions of the blood, muscles, nervous system, thermoregulation, endocrine system and kidneys. Interactive lectures, analysis of case studies as well as the use of simulation technologies will contribute to the deepening of knowledge. The practical part of the teaching of Physiology 1 will enable the graduate to better understand the abovementioned functions and gain basic experience and skills for independent investigation of some functions by modern methods.	
Class syllabus: Physiology of Blood (body fluids, plasma, erythrocytes, leukocytes, platelets, blood groups, mechanisms of blood clotting, basic methods of blood examination), Physiology of skeletal and smooth muscles, Exercise physiology, Physiology of peripheral, autonomic and central nervous system, Physiology of endocrine system, mechanisms and regulation of urine production and excretion and ontogenetic aspects of given systems.	
Recommended literature: Hall, J.E. et al. Textbook of Medical Physiology. 13th. ed. Philadelphia: Elsevier, 2016. 1145 pp. ISBN: 978-14557-7005-2 Barrett KE et al.: Ganong's Review of Medical Physiology. 24th Ed. McGraw-Hill Medical, 2012. 768 pp. ISBN: 978-00-717-8003-2	

<p>Javorka, K. et al.: Medical Physiology. Laboratory manual.5. vydanie Bratislava: UK, 2019, 162 pp. ISBN: 978-80-223-4792-1</p> <p>Koeppen BM, Stanton BA: Berne & Levy Physiology. 6th Edition. Philadelphia: Mosby/Elsevier, 2008, 864 pp. ISBN: 978-0-323-04582-7.</p> <p>Čalkovská, A., Javorka, K. Lessons in Physiology. Publisher: Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, 2016. 194 pp. 1st ed. Print: KO & KA spol. s.r.o., Bratislava, ISBN: 978-80-8187-013-2</p>																				
<p>Languages necessary to complete the course: English</p>																				
<p>Notes:</p>																				
<p>Past grade distribution Total number of evaluated students: 934</p> <table> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> <tr> <td>18,2</td><td>0,54</td><td>20,56</td><td>38,87</td><td>16,7</td><td>5,14</td><td>0,0</td></tr> </table>							A	ABS0	B	C	D	E	FX	18,2	0,54	20,56	38,87	16,7	5,14	0,0
A	ABS0	B	C	D	E	FX														
18,2	0,54	20,56	38,87	16,7	5,14	0,0														
<p>Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Daniela Mokrá, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., MUDr. Zuzana Lazarová, PhD., MUDr. Ivan Žila, PhD., RNDr. Pavol Mikolka, PhD.</p>																				
<p>Last change: 13.09.2024</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFy/J-S-VL-516/16	Course title: Physiology (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 4 per level/semester: 70 / 56 Form of the course: on-site learning	
Number of credits: 10	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBf/J-S-VL-504/15 - Medical Biophysics and JLF.ÚFy/J-S-VL-515/16 - Physiology (1)	
Course requirements: 1. Completion of 93% of practical exercises and active participation in practical exercises 2. Passing three tests of continuous assessment of the study with at least 60% success (Physiology of gastrointestinal system, Physiology of cardiovascular system and Physiology of respiratory system). 3. Preparation of at least one power-point presentation on selected topic Scale of assessment (preliminary/final): 50/50	
Learning outcomes: The graduate gain a knowledge and understands the functions of the human body on the molecular, subcellular, cellular, tissue, organ and system levels up to an integrated - holistic understanding of the functions of a healthy organism in interaction with society and nature - environmental factors. After completing Physiology 2 he/she understands the functions of the digestive system, cardiovascular system and respiratory system. Interactive lectures, analysis of case studies as well as the use of simulation technologies will contribute to the deepening of knowledge. The practical part of the teaching of Physiology 2 will help the graduate to better understand the abovementioned functions and gain basic experience and skills for independent investigation of some functions by modern methods.	
Class syllabus: Physiology of the digestive system, mechanisms of digestion and resorption of nutrients, regulation of food and water intake, Physiology of nutrition, Physiology of the cardiovascular system (physiology of heart, blood vessels, specific areas of circulation, regulation of cardiovascular system, reflexes, basic methods of cardiovascular examination), Physiology of respiratory system (ventilation, distribution, diffusion, perfusion, pulmonary surfactant, respiratory mechanics, blood gas transport, artificial lung ventilation, regulation of breathing, airway and lung reflexes, examination methods) and ontogenetic aspects of the functions of these systems.	
Recommended literature: Hall, J.E. et al. Textbook of Medical Physiology. 13th. ed. Philadelphia: Elsevier, 2016. 1145 pp.	

ISBN: 978-14557-7005-2 Barett KE et al.: Ganong's Review of Medical Physiology. 24th Ed. McGraw-Hill Medical, 2012. 768 pp. ISBN 978-00-717-8003-2 Javorka, K. et al.: Medical Physiology. Laboratory manual. 5. vydanie Bratislava: UK, 2019, 162 pp. ISBN: 978-80-223-4792-1 Koeppen BM, Stanton BA: Berne & Levy Physiology. 6th Edition. Philadelphia: Mosby/Elsevier, 2008, 864 pp. ISBN: 978-0-323-04582-7 Čalkovská, A., Javorka, K. Lessons in Physiology. Publisher: Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, 2016. 194 pp. 1st ed. Print: KO & KA spol. s.r.o., Bratislava. ISBN 978-80-8187-013-2						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 949						
A	ABS0	B	C	D	E	FX
21,71	0,0	22,87	19,18	13,28	11,38	11,59
Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Daniela Mokrá, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., MUDr. Zuzana Lazarová, PhD., MUDr. Ivan Žila, PhD., RNDr. Pavol Mikolka, PhD.						
Last change: 13.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-548/18	Course title: Psychiatry (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.PK/J-S-VL-532/17 - Medical Psychology and Basics of Communication and JLF.NIK/J-S-VL-545/18 - Neurology (1)	
Course requirements: 1. The participation in practicals is compulsory for at least 12-times (especially from 1st to 12 th week). 2. Check in the course of practicals: - Evaluation till the end of 7th week: active participation in practicals; permanent study check (control question); examination of patients, case reports and analysis. - Evaluation till the end of 14th week: written test – minimal success 60 %; examination of patients, case reports and analysis; permanent study check (control question). Evaluation of the results during practicals Rating: A/1 = 91 – 100 %; B/1,5 = 81 – 90 %; C/2 = 73 – 80 %; D/2,5 = 66 – 72 %; E/3 = 60 – 65 %, Fx = less than 60 %	
Learning outcomes: After completion of the subject the student has a knowledge in basics of general psychiatry – student is able to understand content of the subject, etiopathogenesis, diagnostic methods and treatment of psychiatric disorders and general psychopathology, with an emphasis on communication with patients with impaired mental functions. Student is able to perform basic examination aimed to patient's history and disturbed mental functions.	
Class syllabus: Characteristics and content of this scientific branch Etiopathogenesis of psychiatric disorders General psychopathology / disturbances of perception, gnostic disorders, disturbances of emotivity, thinking, volitional acting, consciousness, memory, intellect and personality/ Diagnostics of psychiatric disorders Treatment and rehabilitation of psychiatric disorders Some organizational, law and ethical aspects	
Recommended literature: Literature:	

x Geddes, J. et al. Psychiatry. 4th ed. Oxford: Oxford University Press Inc., New York 2012. 477 s. ISBN 978-0-19-923396-0 x Gelder, M. et al. Psychiatry. Oxford: Oxford University Press, 2006. 333 s. ISBN 0-19-852863-9 x Black, D.W., Andreasen, N.C. Introductory Textbook of Psychiatry. Washington: American Psychiatric Publishing, 5th ed., 2011. 717 s. ISBN 978-1-58562-382-2(alk.Paper), ISBN 978-1-58562-400-3 (pbk.: alk paper) Gelder, M. et al. Oxford Textbook of Psychiatry. Oxford: Oxford University Press, 1998. 944 s. ISBN 0-19-262501-2 Moore, D. P., Jefferson, J. W. Handbook of Medical Psychiatry. St. Louis: Mosby, 1996. 545 s. ISBN 0-8151-6484-X Andreasen, N. C., Black, D. W. Introductory Textbook of Psychiatry. Washington: American Psych. Press, 1991. 565 s. ISBN 0-88048-112-9 Kolibáš, E. Introduction to Clinical Psychiatry. Bratislava: EKOL, 1996. 107 s. ISBN 80-967610-0-5 Janicak, P.G. Handbook of Psychopharmacotherapy. Philadelphia: Lippincott Williams & Wilkins, 1999. 391 s. ISBN 0-683-30722-3 Stefan, M. et al. An Atlas of Schizophrenia. London: Parthenon Publ. Group, 2002. 98 s. ISBN 1-85070-074-5 Sartorius, N., Schulze, H. Reducing the Stigma of Mental Illness. Cambridge: Cambridge University Press, 2005. 238 s. ISBN 13: 978-0-521-54943-1						
Languages necessary to complete the course: english						
Notes:						
Past grade distribution Total number of evaluated students: 595						
A	ABS0	B	C	D	E	FX
83,03	0,0	9,24	4,37	2,35	1,01	0,0
Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Dana Fuňáková, PhD., MUDr. Andrea Gurová, PhD.						
Last change: 06.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-549/19	Course title: Psychiatry (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 1 per level/semester: 28 / 14 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.PK/J-S-VL-548/18 - Psychiatry (1) and JLF.NIK/J-S-VL-545/18 - Neurology (1)	
Course requirements: Requirements to apply for examination. - The participation in practicals is compulsory 12 times - Favourable results during running controls - Favourable results in test Check in the course of practicals. Evaluation till the end of 14th week: active participation in practicals; permanent study check (control question), examination of patients, case reports and analysis, test Evaluation of the results of the ongoing control: A/1 = 91 – 100 %; B/1,5 = 81 – 90 %; C/2 = 73 – 80 %; D/2,5 = 66 – 72 %; E/3 = 60 – 65 %, Fx = less than 60 % Final evaluation: evaluation during practicals = 20%; oral or test exam = 80% Examination: oral exam or test exam Scale of assessment (preliminary/final): 20/80	
Learning outcomes: After completion of the subject the student has a knowledge in basics of special psychiatry – student is able to understand specific mental disorders. Student is skilled in basic diagnostics, differential diagnostics and therapy of specific groups of mental disorders, in principles of first aid in psychiatry. He/she has knowledges about legal status of mentally ill. Student fulfils requirements for basics of communication with mentally ill patients and communication with another specialists and psychiatrists.	
Class syllabus: Lectures: 1. Affective disorders I. Depressive disorders. 2. Affective disorders II. Manic disorders. Bipolar affective disorders. / 3. Schizophrenia, schizotypal disorder, persistent delusional disorders, schizoaffective disorder. 4. Reactive disorders, neurotic disorders. Posttraumatic stress disorders. Adjustment disorders. Somatoform disorders. Eating disorders. Sleep disorders.	

5. Psychoactive substance use disorders. Psychoactive substance dependence due to alcohol and other drugs. Abuse and harmful use, dependence, intoxication, withdrawal state.
6. Organic and symptomatic mental disorders. Old age psychiatry.
7. Child and adolescent psychiatry.

Practicals:

1. Affective disorders I. Depressive disorders.
2. Affective disorders II. Manic episode. Bipolar affective disorder.
3. Persistent affective states. Other affective disorders and affective disorders not otherwise specified. Differential diagnosis and treatment of affective disorders.
4. Schizophrenia.
5. Persistent delusional disorders. Delusional disorders (paranoia), paraphrenia.
6. Schizotypal disorder. Schizoaffective disorders.
7. Reactive disorders, neurotic disorders. Posttraumatic stress disorder. Adjustment disorder. Neurosis, somatoform disorders
8. Personality disorders and conduct disorders. Specific personality disorders.
9. Alcoholism. Clinical findings, complication, alcoholic psychoses.
10. Other drug dependences. Clinical findings, intoxication, and withdrawal phenomena.
11. Symptomatic mental disorders. Symptomatic and organic mental disorders. Basic concepts, clinical features, diagnosis, treatment.
12. Organic mental disorders. Dementias and other organic mental disorders. Mental retardation.
13. Child psychiatry. Mental disorders of childhood and adolescence. Diagnosis and treatment. Psychiatric sexology.
14. Some legal aspects and matters of organization in psychiatry. Practical aspects of care in psychiatry. Forensic services.

Recommended literature:

Compulsory literature:

x Geddes, J. et al. Psychiatry. 4th ed. Oxford: Oxford University Press Inc., New York 2012. 477 s. ISBN 978-0-19-923396-0 x Gelder, M. et al. Psychiatry. Oxford: Oxford University Press, 2006. 333 s. ISBN 0-19-852863-9 x Black, D.W., Andreasen, N.C. Introductory Textbook of Psychiatry. Washington: American Psychiatric Publishing, 5th ed., 2011. 717 s. ISBN 978-1-58562-382-2(alk.Paper), ISBN 978-1-58562-400-3 (pbk.: alk paper) Gelder, M. et al. Oxford Textbook of Psychiatry. Oxford: Oxford University Press, 1998. 944 s. ISBN 0-19-262501-2 Moore, D. P., Jefferson, J. W. Handbook of Medical Psychiatry. St. Louis: Mosby, 1996. 545 s. ISBN 0-8151-6484-X Andreasen, N. C., Black, D. W. Introductory Textbook of Psychiatry. Washington: American Psych. Press, 1991. 565 s. ISBN 0-88048-112-9 Kolibáš, E. Introduction to Clinical Psychiatry. Bratislava: EKOL, 1996. 107 s. ISBN 80-967610-0-5 Janicak, P.G. Handbook of Psychopharmacotherapy. Philadelphia: Lippincott Williams & Wilkins, 1999. 391 s. ISBN 0-683-30722-3 Stefan, M. et al. An Atlas of Schizophrenia. London: Parthenon Publ. Group, 2002. 98 s. ISBN 1-85070-074-5 Sartorius, N., Schulze, H. Reducing the Stigma of Mental Illness. Cambridge: Cambridge University Press, 2005. 238 s. ISBN 13: 978-0-521-54943-1

Languages necessary to complete the course:
english

Notes:

Past grade distribution						
Total number of evaluated students: 472						
A	ABS0	B	C	D	E	FX
52,75	0,0	27,97	13,35	3,81	2,12	0,0
Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Dana Fuňáková, PhD., MUDr. Andrea Gurová, PhD.						
Last change: 06.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-617/19	Course title: Public Health (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 1 per level/semester: 42 / 14 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-516/16 - Physiology (2) and JLF.IKG/J-S-VL-537/17 - Internal Medicine Propedeutics (1) and JLF.ÚO/J-S-VL-531/17 - Ethics in medicine	
Recommended prerequisites: Physiology 2, Internal Medicine Propedeutics 1, Medical Ethics	
Course requirements: SCORING SYSTEM OF THE COURSE a/ 100% obligatory attendance according to the schedule – 13 seminars / 1 seminar for 2 point in total max. 26 points b/ two ppt presentations – students will prepare individually their presentations * 7 points for presentation / in total 14 points c/ written exam – test /60 multi choice questions max 60 points *Each student chooses the theme of the presentation from the given list so that each student will prepare and present two themes. Students should prepare the presentations and upload them into the moodle e-learning system until deadlines stated specifically in each theme to be presented in the relevant practical. In accordance with Internal Regulation of Comenius University in Bratislava (No.8/2013, Part IV Study organization at CU, Art. 21 par. 9): student's absence in educational activities may be excused if the student has been ill or if there are other obstructions on the side of the student (public post, civic duties carried out in public interest, maternity or parental leave, quarantine, sick family member care, medical examination or treatment, birth of a child to the student's wife, accompanying a family member to a health care facility, death of a family member, student's wedding or a wedding of a student's close relative, unexpected traffic collapse or delays in regular public transport, moving) that will be proved by the student by respective documents. Requirements for assignment for the pre-term exam (terms before Christmas): • 2 ppt presentations prepared and presented during practicals • 100% attendance at practicals. Only one excused missing practical is allowed! Excuse of missing seminars (according to the Study order of JFMCU as well as to the Dean's direction) is possible only in case of less than 20% of missing seminars (3 seminars). In case of 1 missing seminar student can be excused without compensation or substitution but doesn't get points	

for missing seminar.* In case of more than one missing seminar (i.e. 2 or 3 missed seminars), these should be either substituted (i.e. to come with other group during the given week) or compensated. Compensation means preparation of the short thesis on the topic of the missing seminar during compensation classes (substitution week = 14th week of semester).

*Excused seminar does not mean student gets points. Student can get points only upon substitution or compensation of the missing seminars.

In the case of more than 20% (4 and more) of missing seminars their excuse is possible only upon a written request and the approval of the dean of the faculty.

Total evaluation (max. 100 points):

Acquired points Evaluation

100 – 91 A (excellent - 1)

90 – 81 B (very good - 1, 5)

80 – 73 C (good - 2)

72 – 66 D (satisfying - 2,5)

65 – 60 E (enough - 3)

59 - and less Fx (not enough - 4)

For a successful completion of the course, at least 20 points for the written exam and 60 points in total evaluation are required.

The teacher can assign max. 2 extra bonus points for outstanding activity of a student. In selected seminars, learned knowledge on issues dealt during the session can be evaluated via short tests.

Scale of assessment (preliminary/final): 100/100

Learning outcomes:

After completion of the subject the student understands the role of hygiene (as a preventive medical branch) within public health in prevention, health promotion and protection. The student is able to apply theoretical knowledge in practice. The student is able to identify risk factors influencing health status of individuals and population. The student is able to apply health and preventive strategies on a community level to improve health of different population groups living in different conditions and environments. The student is able to analyse methods of monitoring of population health, its indicators, morbidity, mortality, social determinants of health, and health statistics. The student understands importance of health promoting and preventive programs, basic principles of health care economy, health care systems, and organization of health care in the world. The student is able to apply knowledge to consistent preventive thinking and to act in health related issues and in relevant research, to interpret and implement health promotion and protection, and prevention of diseases.

Class syllabus:

Public Health. Prevention, health protection and promotion. Environmental hygiene. Hygiene of children and adolescent. Occupational Health. Radiation hygiene. Nutritional hygiene. Social medicine - history, research methods. World Health Organization (WHO), Red Cross Movement , European Centre for Disease Control (ECDC) Prevention and control of chronic diseases. Basic demographic indicators. Indicators of population health. Social determinants of health. Healthcare systems in the world – definitions, models. Health care facilities, health care economy and policy. Health inequalities, equity in health. Quality in health care. Evidence-based health care. Modeling and simulation in medical and health sciences.

Recommended literature:

OBLIGATORY LITERATURE

KAWACHI, I. RICCIARDI, W.: Oxford Handbook of Public Health Practice (4 ed.). Oxford University Press. 2020, ISBN-13:9780198800125

Public Health Textbook. <https://www.healthknowledge.org.uk/public-health-textbook>

https://moodle.uniba.sk RECOMMENDED LITERATURE NAKLÁDALOVÁ, M. et al.: Occupational Musculoskeletal Diseases. Multimedia Guide for the English Programme Students. https://www.occupational.diseases.upol.cz/book/ https://www.who.int/						
Languages necessary to complete the course: english						
Notes:						
Past grade distribution Total number of evaluated students: 526						
A	ABS0	B	C	D	E	FX
62,17	0,0	30,99	5,32	1,33	0,19	0,0
Lecturers: prof. MUDr. Tibor Baška, PhD., Mgr. Róbert Čecho, PhD., Mgr. et Mgr. Martin Novák, PhD., Mgr. Eliška Štefanová, PhD., RNDr. Jela Čajdová, PhD., Mgr. Miroslava Sovičová, PhD.						
Last change: 05.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-618/19	Course title: Public Health (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ÚVZ/J-S-VL-617/19 - Public Health (1)	
Recommended prerequisites: Public Health 1	
Course requirements: EVALUATION OF THE COURSE 1. Active attendance at the practicals: 4 points for each session max. 12 points 2. Pre-exam test: 14 questions – 2 points each max. 28points 3. Final oral examination (the student draws 2 questions) max. 60 points Final evaluation (max. 100 points): Achieved points Evaluation/grade 100 – 91 A (excellent - 1) 90 – 81 B (very good – 1.5) 80 – 73 C (good - 2) 72 – 66 D (satisfactory – 2.5) 65 – 60 E (sufficient - 3) 59 and less Fx (fail - 4) Attendance at the practicals is obligatory. Only one excused missing is allowed (in accordance with the Study Rules of the JFM CU), however, points are not counted unless appropriately substituted/compensated (the form assigned by the respective teacher) For successful completion of the course, at least 60 points in final evaluation are needed. Scale of assessment (preliminary/final): 100/100	
Learning outcomes: After completion of the subject the student understands epidemiological methods, basic terms of medical statistics, features of epidemic process, immunization and vaccination, disinfection, disinsection, rodent control, main characteristics of communicable diseases occurrence, epidemiology of chronic non-communicable diseases and their primary, secondary and tertiary prevention, essential terms of tropical and travel medicine	
Class syllabus:	

Epidemiology – historical introduction, basic terms of epidemiology of communicable diseases (source, infectious agent, outbreak area, epidemic process and its conditions, features), principles of control of communicable diseases, preventive and repressive measures (measures in outbreak area), Epidemic measures in practice Prevention of hospital infections Epidemiological classification of infectious diseases, international cooperation in communicable disease control Epidemiological method, population approach in study of diseases, descriptive methods, population and sample, determining of normality and abnormality, validity of diagnostic methods Analytic epidemiological studies (observational studies, intervention studies), screening, introduction to clinical epidemiology, principles of evidence based medicine Vaccinology - epidemiological importance, trends and perspectives. Vaccination schedule Essentials of travel and tropical medicine Epidemiology of chronic diseases, population intervention methods of prevention and health promotion Population health in Slovakia, Europe and World Multifactorial ethiology of non-communicable diseases. Risk factors and their evaluation Evaluation of cardiovascular risk Epidemiology and prevention of oncologic diseases. Current problems of epidemiology in European and Global context, a role of international institutions (WHO, ECDC)

Recommended literature:

OBLIGATORY LITERATURE

Špaleková, M.: EPIDEMIOLOGY FOR STUDY OF PUBLIC HEALTH - Vol. 1, 1st Ed., Comenius University in Bratislava, 2015, 162p, ISBN: 978-80-223-3933-9 https://zona.fmed.uniba.sk/fileadmin/lf/sucasti/Teoreticke_ustavy/Ustav_epidemiologie/2020-2021ZS/Epidemiology_Vol.I..pdf

Špaleková, M.: EPIDEMIOLOGY FOR STUDY OF PUBLIC HEALTH - Vol. 2, 1st. Ed., Comenius University in Bratislava, 2015, 86p, ISBN: 978-80-223-3934-6 https://zona.fmed.uniba.sk/fileadmin/lf/sucasti/Teoreticke_ustavy/Ustav_epidemiologie/2020-2021ZS/Epidemiology_II.Vol..pdf

RECOMMENDED LITERATURE

Beaglehole, R., Bonita, R., Kjellström, T. Basic epidemiology. 2nd edition, Geneva:WHO, 2006. 213 pp. ISBN 92-4-154707-3

Ahrens, W., Pigeot, I.: Handbook of Epidemiology. Springer, 2014, 2498 p.

Preventing Chronic Diseases. A Vital Investment. WHO Global Report. Ženeva:WHO, 182 s. ISBN 92-4-156300-1

<https://apps.who.int/iris/handle/10665/43328>

Global Status Report on NCDs. 2014 Geneva: World Health Organization. ISBN: 978 92 4 156485 4 : https://apps.who.int/iris/bitstream/handle/10665/148114/9789241564854_eng.pdf

Global health risks. 2009 Geneva: World Health Organization. https://www.who.int/healthinfo/global_burden_disease/GlobalHealthRisks_report_full.pdf

ECDC. Immunisation and vaccines. <https://www.ecdc.europa.eu/en/immunisation-and-vaccines>

Centers for Disease Control and Prevention <http://www.cdc.gov/>

World Health Organization www.who.int

Languages necessary to complete the course:

english

Notes:

Past grade distribution

Total number of evaluated students: 470

A	ABS0	B	C	D	E	FX
56,38	0,0	26,81	12,98	2,13	1,7	0,0

Lecturers: prof. MUDr. Tibor Baška, PhD., Mgr. et Mgr. Martin Novák, PhD.
Last change: 06.09.2024
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.RK/J-S-VL-622/18	Course title: Radiology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1,5 / 1,5 per level/semester: 21 / 21 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.ÚLBf/J-S-VL-504/15 - Medical Biophysics and JLF.ÚA/J-S-VL-503/16 - Anatomy (3)	
Course requirements: 1. Mandatory requirements are: 100 % attendance of clinical practices and at least 7 lectures. It is necessary to write an essay for each missed practicum (the same topic; at least 2000 words). 2. During semester, students can be evaluated by short written test anytime (at least 60 % success rate is mandatory; A: 95 % - 100 %, B: 88 % - 94 %, C: 77 % - 87 %, D: 66 % - 76 %, E: 60 % - 65 %). 3. Practical exam (last practicum) – interpretation of basic pathological findings on X-Ray, ultrasound, CT, MR, DSA and MMG images. 4. Final oral exam (3 questions). No question can be graduated by FX to pass the exam successfully.	
Learning outcomes: During the course, medical students should become familiar with: 1. PRINCIPLES OF RADIOLOGICAL TECHNIQUES, PRINCIPLES OF RADIATION BIOLOGY AND RADIATION PROTECTION, CONTRAST MEDIA IN RADIOLOGY Origin of ionizing radiation and interaction of ionizing radiation, radiological quantities and units, fundamentals of ionizing radiation detection, physical characteristics of radiological devices used for diagnostics and therapy, basics of radiobiology, basic principles of radiation protection, radiation protection of health care workers when working with sources of radiation, radiation protection of patients , justification of medical exposures, medical exposure optimization, diagnostic reference levels for medical exposure, radiation exposure of patients in radiodiagnostics, special requirements for ensuring radiation protection of children and pregnant women, emergency situations and accidents. A student is capable to do the following: - To list the components of an X-ray unit and explain the process of X-ray generation - To describe the principles of and common indications for fluoroscopy - To list and describe the factors affecting image quality and dose in radiography and fluoroscopy - To describe the principles of soft tissue radiography in mammography - To describe the positioning of the patient for common radiographic techniques (e.g. chest X-ray) - To describe the normal anatomy of the various organs on radiographic images - To explain the concept of spatial, temporal and contrast resolution - To explain the principle of contrast in the different imaging modalities - To describe the relative diagnostic value of a computed tomography (CT) examination for the various organ systems and indications - To explain the physical basis	

of image formation of computed tomography - To describe the scale of Hounsfield units (HU) and the principle of window centre and width - To list normal levels of attenuation (in HU) for various organs and common pathologies (e.g. haemorrhage, calcifications) - To describe the normal anatomy of the various organs on CT - To explain the relative value of a magnetic resonance imaging (MRI) examination for the various organ systems and indications - To describe the basic principles of image formation with MRI - To list the most commonly used pulse sequences in MRI (including T2-weighted sequences, T1-weighted sequences, fat suppressed sequences such as STIR sequences, FLAIR sequences, diffusion-weighted imaging) - To describe the absolute or relative contraindications against MR imaging - To explain the safety issues in the MR environment with regard to patients and staff - To describe the normal anatomy of the various organs on MRI - To explain the relative value of an ultrasound examination for various organ systems and indications - To describe the basic principles of image formation with ultrasonography and to list the tissue properties that determine it - To list the frequency of transmission and different types of transducers for various indications for ultrasonography - To be aware of the indications and contraindications for contrast-enhanced ultrasonography - To describe the principles of the Doppler effect - To describe the normal anatomy of the various organs on ultrasonography - To describe the principles of digital subtraction angiography (DSA) - To have a basic understanding of the different types and techniques of image-guided interventions - To describe the basic infrastructure of imaging informatics, including Picture Archiving and Communication Systems (PACS) and Radiological Information Systems (RIS) - To list the sources and properties of ionising radiation and radioactive decay - To describe the generation of X-rays and their interaction with matter - To describe the most important dose measures, including absorbed energy dose (Gy), organ and effective doses (Sv) - To be familiar with the principles of the dose length product (DLP) - To explain stochastic, deterministic and teratogenic radiation effects - To describe the effects of ionising radiation on cells, tissues and organs and to list the mechanisms of repair - To list types and magnitudes of radiation risk from radiation exposure in medicine and to compare it to radiation exposure from natural sources - To list concepts of dose measurement and the relevant dose limits - To understand the As Low As Reasonably Achievable (ALARA) principle - To list the factors influencing image quality and dose in diagnostic radiology - To describe the indications for the use of X-ray contrast media in the study of various organs/organ systems - To describe the indications for the use of CT contrast media in the study of various organs/organ systems - To list typical risks and side effects of commonly used iodinated contrast media (X-ray and CT contrast media) - To describe the indications for the use of MR contrast media in the study of various organs/organ systems - To list typical risks and side effects of commonly used MRI contrast media - To have a basic understanding of contrast media for ultrasonography - To have a basic understanding of the various timing phases of contrast media application and their respective values according to the clinical problem - To describe risk factors of contrast media nephrotoxicity and to list measures to reduce it - To have a basic understanding of nephrogenic systemic fibrosis (NSF) and to list measures to reduce it.

2. NEURORADIOLOGY - To describe the normal anatomy and physiology of the brain, skull, skull base, spine, spinal cord and nerve roots on cross-sectional imaging - To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in neuroradiology - To explain when to refer a patient to ultrasonography/Doppler sonography, CT or MRI in neuroradiology - To list typical imaging features of ischaemic and haemorrhagic stroke on cross-sectional imaging - To describe common imaging features of traumatic brain injury and spinal trauma on cross-sectional imaging - To list typical imaging features of white matter disease, inflammation and degeneration on cross-sectional imaging - To describe typical imaging features of the most common tumours of the brain and spine - To describe the anatomy and to describe typical imaging features of pathologies of pontocerebellar angle - To describe the acute headache imaging management and to describe typical imaging features of related diseases - To identify and describe the imaging features

of brain complications: mass effect, infiltration, engagement, oedema, contrast enhancement - To have a basic knowledge of neuroradiological interventions including revascularisation and coiling - To have a basic understanding of the common indications, contraindications and limitations in neuroradiology

3. HEAD AND NECK IMAGING - To describe the normal anatomy and physiology of the head and neck on cross-sectional imaging - To describe the relative values of and indications for radiography, fluoroscopy, ultrasonography, CT and MRI in head and neck imaging - To explain when to refer a patient to radiography, ultrasonography, CT or MRI of the head and neck - To describe common imaging manifestations of trauma, inflammation and infection of the head and neck region - To describe typical imaging manifestations of tumours of the head and neck region - To have a basic understanding of the common indications, contraindications and limitations in head and neck imaging

4. CARDIOVASCULAR RADIOLOGY - To describe the normal anatomy and physiology of the heart and vessels on radiographs, ultrasonography/ Doppler sonography, CT and MRI - To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in cardiovascular imaging - To explain when to refer a patient to radiography, ultrasonography/Doppler sonography, CT or MRI of the cardiovascular system - To describe the different types of cardiac configuration on chest radiography - To explain which chambers form the border of the cardiac silhouette on chest radiography - To have a basic understanding of congenital heart disease and the diagnostic features on conventional radiographs - To differentiate radiological features and causes of cardiac enlargement, including acquired valvular disease and pericardial disease - To describe radiological features of vascular occlusion, stenosis and thrombosis - To explain the diagnostic evaluation of ischaemic heart disease - To describe the normal dimensions of the aorta and classify aortic aneurysms and dissections - To have a basic understanding of the common indications, contraindications and limitations in cardiovascular imaging

5. EMERGENCY RADIOLOGY - To have an understanding when to refer a patient to radiography, ultrasonography/Doppler sonography, CT, MRI or DSA in emergencies in adult and child age

6. INTERVENTIONAL RADIOLOGY - To describe the normal anatomy and physiology of the arterial and venous system and have an understanding of its relevance to interventional radiology - To list typical endovascular approaches to common disorders in interventional radiology - To list typical approaches for image-guided biopsy taking, placement of drainages and ablative techniques - To have an understanding of the risk involved in common interventional techniques - To list the standard procedure in emergency situations, including resuscitation techniques - To have a basic understanding of the common indications, contraindications and limitations in interventional radiology

7. CHEST RADIOLOGY AND BREAST IMAGING - To describe the anatomy and physiology of the respiratory system, heart and vessels, mediastinum and chest wall on radiographs and CT - To describe the relative values of and indications for radiography and CT in thoracic imaging - To explain when to refer a patient to radiography, CT or MRI of the chest - To have an understanding of imaging patterns in chest radiology including consolidations, nodules, hyperlucencies, hyperinflation - To describe the chest radiography signs, including silhouette sign, air bronchogram, air crescent sign, deep sulcus sign - To describe the imaging appearance of monitoring and support devices (“tubes and lines”) including endotracheal tubes, central venous catheters, nasogastric tubes, chest drains, pacemakers - To list the typical chest radiography appearances and common causes of pleural effusion - To describe the clinical and imaging features of pneumothorax and tension pneumothorax - To list typical imaging features of pneumonia on radiographs and CT - To list typical imaging features of emphysema on radiographs and CT - To describe the typical imaging appearances of bronchiogenic carcinoma and pulmonary metastases on radiographs and CT - To list the typical imaging patterns of mediastinal masses on radiographs and CT - To have an understanding of the clinical work-up of lung nodules - To describe the imaging signs of pulmonary embolism - To have a basic understanding of the common indications, contraindications and limitations in

thoracic imaging - To be aware of the differences between high resolution CT (HRCT) of the chest, CT angiography of the pulmonary arteries and staging CT of the chest - To describe the normal anatomy and physiology of the female breast, axilla and associated structures and how they change with age - To have a basic understanding of the main radiological techniques employed in breast imaging (including mammography, ultrasonography and MRI) as well as their indications and relative diagnostic value - To know when to refer a patient for mammography, ultrasound and/or MRI of the breast - To have a basic understanding of the appearance of common benign diseases and of breast cancer on mammography - To have a basic understanding of techniques of ultrasound of the breast and of the appearance of common breast pathologies on ultrasound - To have a basic understanding of MRI of the breast - To have a basic understanding of the common indications, contraindications and limitations in breast imaging 8. GASTROINTESTINAL AND ABDOMINAL RADIOLOGY - To describe the normal anatomy and physiology of the internal viscera, abdominal organs, omentum, mesentery and peritoneum on conventional radiology, CT, ultrasound and MRI - To describe the relative values of and indications for radiography, fluoroscopy, ultrasonography, CT and MRI in gastrointestinal and abdominal imaging - To explain when to refer a patient to radiography, ultrasonography, CT or MRI of the abdomen - To list typical imaging features of acute abdominal conditions, including perforation, haemorrhage, inflammation, infection, obstruction, ischaemia and infarction on radiographs, ultrasound and CT - To list typical imaging features of colon tumours, diverticulitis, and inflammatory bowel diseases - To describe typical imaging features of primary and secondary tumours of the solid abdominal organs and of the gastrointestinal tract - To have a basic understanding of the common indications, contraindications and limitations in gastrointestinal and abdominal imaging 9. UROGENITAL RADIOLOGY, GYNAECOLOGICAL AND OBSTETRIC RADIOLOGY - To describe the normal anatomy and physiology of the retroperitoneum, kidneys, ureters, bladder, urethra and genital tract on ultrasonography and cross-sectional imaging - To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in urogenital radiology - To explain when to refer a patient to radiography, CT or MRI of the urogenital system - To have an understanding of contrast medium management in renal failure - To list typical imaging features of the most common diseases of the kidneys and of the urinary tract - To list typical imaging features of the most common pathologies of the prostate, seminal vesicles and testes - To have a basic understanding of the common indications, contraindications and limitations in urogenital imaging - To describe the normal anatomy and physiology of the female reproductive organs on ultrasound, CT and MRI - To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in gynaecological and obstetric imaging - To explain when to refer a patient to radiography, ultrasonography/Doppler sonography, CT or MRI in gynaecological and obstetric imaging - To explain how the female reproductive organs change with age and during pregnancy - To list typical imaging features of benign and malignant tumours of the female reproductive organs - To describe the typical imaging features of the most common disorders associated with pregnancy and delivery - To list techniques to reduce exposure doses for radiographic and CT examinations of the female reproductive organs - To have a basic understanding of the common indications, contraindications and limitations in gynaecologic and obstetric imaging 10. PAEDIATRIC RADIOLOGY - To describe normal paediatric anatomy and physiology and how it changes with age on conventional radiology, ultrasonography and cross-sectional imaging - To describe the relative values of and indications for radiography, ultrasound, radiography CT and MRI in children - To explain when to refer a child to radiography, ultrasonography/Doppler sonography, CT or MRI - To explain the increased vulnerability of children to ionizing radiation - To have a basic understanding of the typical imaging manifestations of accidental and non-accidental trauma - To list basic imaging features of the most common disorders of the brain, spine, chest, gastrointestinal tract and abdomen, urogenital system and musculoskeletal system in neonates,

infants, children and adolescents - To have a basic understanding of the common indications, contraindications and limitations in paediatric imaging 11. MUSCULOSKELETAL IMAGING - To describe the normal anatomy and physiology of the musculoskeletal system on conventional radiology and cross-sectional imaging - To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in musculoskeletal imaging - To explain when to refer a patient to radiography, ultrasonography, CT or MRI of the musculoskeletal system - To list common imaging presentations of trauma involving the skeleton on conventional radiographs - To list typical imaging presentations of degenerative disorders of the musculoskeletal system on conventional radiographs - To describe common imaging manifestations of musculoskeletal infection and inflammation, metabolic diseases, including osteoporosis, and common bone tumours - To have a basic understanding of the common indications, contraindications and limitations in musculoskeletal imaging

Class syllabus:

1. Introduction to radiology (the physical basis of image formation including conventional x-ray, computed tomography, angiography, MMG, magnetic resonance imaging and ultrasound). Principles of radiation protection. PACS. Contrast media. 2. Neuroradiology I. – Brain. 3. Neuroradiology II. - Spine; Radiology of head and neck. 4. Cardiac and vascular radiology. 5. Emergency radiology. 6. Interventional radiology. 7. Radiology of thorax. Breast radiology. 8. Abdominal radiology. 9. Urogenital radiology. 10. Paediatric radiology. 11. Musculoskeletal radiology.

Recommended literature:

Mandatory literature:

1. Breistenseher M., et al. Textbook of Clinical Radiology University Publisher 3.0 2012 ISBN 978-3-9503296-7-4
2. Heřman M., et al. Basics of Radiology Palacký University Olomouc 2021 ISBN 978-80-244-5697-3 e-book ISBN: 978-80-244-5837-3

Additional literature:

3. Adam A., et al. Grainger & Allison's Diagnostic Radiology, 6th Edition Churchill Livingstone Elsevier 2015 ISBN: 978-0-7020-4295-9 e-book ISBN: 978-0-7020-6128-8
4. Geschwind J., et al. Abrams' Angiography: Interventional Radiology - 3rd edition Lippincott Williams & Wilkins 2013 ISBN13: 978-1609137922
5. Zelenák K., et. al. Radiology Imaging Techniques of Brain Tumours InTech 2013 DOI: 10.5772/53470
<http://www.intechopen.com/books/clinical-management-and-evolving-novel-therapeutic-strategies-for-patients-with-brain-tumors/radiology-imaging-techniques-of-brain-tumours>
6. Krajina A., et al. Therapeutic Embolization of Cranial Tumors, Diagnostic Techniques and Surgical Management of Brain Tumors InTech 2011 DOI: 10.5772/19639
<http://www.intechopen.com/books/diagnostict techniques-and-surgical-management-of-brain-tumors/therapeutic-embolization-of-cranial-tumors>
7. Zelenák K., et. al. Atlas elementárnych rádiologických nálezov - I. diel (2. vydanie) P + M 2021 ISBN: 9788089694945
8. Zelenák K., et. al. Atlas elementárnych rádiologických nálezov - II. diel P + M 2020 ISBN: 978-80-89694-68-6
9. Zelenák K., et. al. How to Improve the Management of Acute Ischemic Stroke by Modern Technologies, Artificial Intelligence, and New Treatment Methods Life (Basel) 2021 DOI: 10.3390/life11060488
<https://www.mdpi.com/2075-1729/11/6/488/pdf>

Languages necessary to complete the course: English language						
Notes:						
Past grade distribution Total number of evaluated students: 660						
A	ABS0	B	C	D	E	FX
33,03	0,0	24,39	16,67	7,27	6,21	12,42
Lecturers: doc. MUDr. Kamil Zelenák, PhD., MUDr. Martin Števík, PhD., MUDr. Anna Lazorová, MUDr. Adam Krkoška, MUDr. Daniel Lozan, doc. Ing. Juraj Mužík, PhD., MUDr. Jakub Soršák, MUDr. Ján Sýkora, PhD., MUDr. Zuzana Trabalková, MUDr. Veronika Vajdová, MUDr. Štefánia Vetešková, MUDr. Martin Vorčák, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-592/19	Course title: Research Preparation
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Obligatory attendace in lectures (a 1 points. - max. 14 points.) Excused two missed lectures (in accordance with Internal Study Regulations) – points are not included, unless the missed lecture is substituted (way of the substitution upon arrangement with respective teacher). Processing of a model bibliographic search: (max. 43 points.) Each student will demonstrate his/her ability to work with bibliogrpahic databases PubMed or SCOPUS through concise bibliographic search of original published scholar articles dealing with a chosen problem . The search should be submitted until the 7th week of the semester. Critical evaluation of a quality of the retrieved literary resources: (max. 43 ponits.) Each student will evaluate each resource in the bibliographic search considering its quality (reliability): methods, design, strength of an evidence, weak and strong points. Developed critical evaluation will be submitted until end of the semester . Overall evaluation of the course: Achieved points Evaluation 100 - 91 A (1) 90 - 81 B (1, 5) 80 - 73 C (2) 72 - 66 D (2,5) 65 - 60 E (3) 59 and lessj Fx (4) Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student understands principles of the scientific dealing with problems in laboratory, clinical and population research in medical sciences. He/she is able to retrieve and critically appraise scientific information, he/she knows basic methods of empiric data collection, study design, standard formal structure of the scientific work and understands principles of scientific communication and scientometry.	
Class syllabus:	

Fundaments and structure of a modern science Scientific and non-scientific methods – kinds and characteristics Methods of scientific data collection Methods of processing and analyzing scientific information Research process and its phases Kinds of research and development of research project Ethics of scientific work and presentation of results Evidence based medicine Types of scientific and expert publications Student scientific and expert work at the Jessenius Faculty of Medicine, Comenius University in Martin						
Recommended literature: Obligatory literature: Entrez PubMed (Medline). Available at: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed SCOPUS. Dostupné na: www.scopus.com ŠTUDOVŇA GOOGLE. Dostupné na: https://scholar.google.sk/ McDonald, J.: Handbook of Biological Statistics. http://www.biostathandbook.com/ https://moodle.uniba.sk/ Recommended literature: MEŠKO, D. a kol. Medinfo 1. Praktická príručka pre lekárov, zdravotníkov a študentov. Martin: Osveta, 2005, 152 s., ISBN: 80-8063-197-2 MEŠKO, D. a kol. Akademická príručka. 1. vyd. Martin: Osveta, 2004, 316 s.						
Languages necessary to complete the course: english						
Notes:						
Past grade distribution Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Jana Plevková, PhD., prof. MUDr. Tibor Baška, PhD.						
Last change: 06.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.CPMV/J-S-VL-638/22	Course title: Simulation Team Training in Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 5 / 1 per level/semester: 7 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: not applicable	
Course requirements: 100% attendance Scale of assessment (preliminary/final): final evaluation	
Learning outcomes: Implementation of the subject Simulation education of teams in medicine will create a platform for training of interprofessional education, the platform allows training of algorithms and communication of teams in emergency management of anaphylactic shock, failure of basic vital functions, shock states, acute coronary syndromes, strokes, endangering intoxications and disorders of homeostasis, etc. After completing this elective course, students will improve the existing deficits in their procedural and soft skills - especially interprofessional doctor-nurse communication and teamwork.	
Class syllabus: SBTT Students complete 7 courses during the semester, each undergo SCE - simulated clinical experiences using a high fidelity simulator and a team of experts from the Medical Education Support Center, which will explain the basic principles of management of selected conditions based on current guidelines, explain the competencies of the nurse / doctor, who performs what, who is responsible for what, explains the principles of effective communication in the team, always taking into account the current selected acute situation, and in the simulation they will train these procedures together in procedural skills that are necessary to manage emergencies (provision of IV periphery and central vein, intraosseous approach, ECG loading, defibrillation, intubation, ABDCE examination, provision of oxygenation and ventilation, etc.) Basics of communication while working in a team SBTT Anaphylactic shock SBTT Acute coronary syndrome SBTT Trauma, bleeding, shock SBTT Stroke	

SBTT Intoxications, homeostasis disorders SBTT Failure of vital functions						
Recommended literature: Levine et al., The Comprehensive Textbook of Simulation in Medicine. ISBN-13: 978-1461459927, Springer Michaelson et al., Team-Based Learning: Small Group Learning's Next Big Step: New Directions for Teaching and Learning (J-B TL Single Issue Teaching and Learning) ISBN-13: 978-0470462126						
Languages necessary to complete the course: English Language						
Notes:						
Past grade distribution Total number of evaluated students: 9						
A	ABS0	B	C	D	E	FX
0,0	100,0	0,0	0,0	0,0	0,0	0,0
Lecturers: prof. MUDr. Jana Plevková, PhD.						
Last change: 28.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-SJ1/15	Course title: Slovak Language (1)/Foreign Language (1)
Educational activities: Type of activities: practicals Number of hours: per week: 3 per level/semester: 42 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 95% participation in seminars, two written credit tests, the minimum percentage to pass each test is 60%. Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 50% / 50%	
Learning outcomes: The aim of teaching Slovak language 1 and 2 is to teach a foreign student the grammar basics, the appropriate vocabulary of Slovak language so that he is able to manage everyday situations.	
Class syllabus: Slovak language: 1. Lesson 1: Introduction to the Slovak language - alphabet, pronunciation, addresses, greetings, courtesy phrases, numbers 1-10, introduce yourself. 2. Courtesy phrases 2, surnames and professions, masculine, feminine, verb byť/ negative, genders - nouns / adjectives. 3. Lesson 2: description of a person, adjectives + opposition, demonstrative, verb to have + negative. 4. Possessive adjectives, numbers from 11. Lesson 3: Our family, family members, possessive pronouns. 5. Accusative singular, verb classes - verb tenses, Slovak calendar. Lesson 4: Student Róbert Jesenský, part of the day. 6. Substantives - nominative of the plural, timing of verbs. Repetition of lessons 1 - 4. 7. TEST 1. 8. Lesson 5: At home, ordinal numbers, verb tenses 1. 9. Verb tenses 2, plural accusatives. Lesson 6: Clothes, colours. 10. Timing of verbs, date, and weather. 11. Lesson 7: At the medical school, what time is it, modal verbs. 12. Lesson 8: In Slovak class, singular local. Repetition of lessons 5 - 8. 13. TEST 2. German language:	

1. Anatomieunterricht
Anatomie des menschlichen Körpers
Körperteile
Grammatik: Konjugation der regelmäßigen Verben – Präsens

2. Anatomieunterricht
Skelett Typen und Bau der Knochen
Gelenktypen
Grammatik: Konjugation der unregelmäßigen Verben – Präsens

3. Anatomie und Krankheiten
Gelenkerkrankungen: Arthrose
Künstliche Körperteile
Anatomieunterricht am Tablet- PC
Grammatik: Passivformen

4. Kardiologie
Das Herz
Lungen- und Körperkreislauf
Grammatik: Deklination von Adjektiven, Imperativ

5. Herzerkrankungen
Myokardinfarkt – Ursachen,
Symptome und Therapie
Grammatik: Imperativ

6. Test I

7. Pneumologie
Die Lunge
Aufbau der Atmungsorgane
Grammatik: Trennbare Verben

8. Pneumologie
Funktion der Atmungsorgane
Gespräch beim Hausarzt
Grammatik: Untrennbare Verben

9. Lungenerkrankungen
Die Atemwegserkrankungen
COPD, Asthma, Grippe
Grammatik: Verben – Vergangenheit

10. Urologie
Urogenitaltrakt bei der Frau und beim Mann
Aufbau und Funktion der Nieren
Grammatik: Nebensätze

11. Erkrankungen der Nieren und Harnwege
Erkrankungen der Prostata (Vorsteherdrüse)
Harnsteine (Urolithiasis)
Harnwegsinfekt; Blasenschwäche (Harninkontinenz)
Grammatik: Infinitiv mit zu

12. Verdauung
Aufbau und Funktion des Verdauungssystems
Der Verdauungsprozess
Grammatik: Hilfsverben mit Infinitiv + zu

13. Erkrankungen des Verdauungstraktes
Darmerkrankungen

Darmspiegelung (Koloskopie) Grammatik: Präpositionen mit Dativ und Akkusativ 14. Test II						
Recommended literature: Slovak language: Kolektív autorov (2020) Slovenčina pre zahraničných študentov. Bratislava: Vydavateľstvo UK. Kolektív autorov (2013) Slovensko-anglický a anglicko-slovenský slovník pre zahraničných študentov. Bratislava: Vydavateľstvo UK. German language: Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica. Džuganová, B. Barnau, A.: Nemčina pre lekárov a pracovníkov v zdravotníctve, Bratislava: Easton Books, 2017. 274s., učebnica. Firnhaber-Sensen, U. - Rodi, M.: Deutsch im Krankenhaus Neu. Berlin: Langenscheidt 2009. 128 s.						
Languages necessary to complete the course: Slovak language, English language, German language						
Notes:						
Past grade distribution Total number of evaluated students: 1219						
A	ABS0	B	C	D	E	FX
43,31	0,08	27,97	16,57	7,71	4,35	0,0
Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, PhD.						
Last change: 16.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-SJ2/15	Course title: Slovak Language (2)/Foreign Language (2)
Educational activities: Type of activities: practicals Number of hours: per week: 3 per level/semester: 42 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-SJ1/15 - Slovak Language (1)/Foreign Language (1)	
Course requirements: 95% participation in seminars, two written credit tests, the minimum percentage to pass each test is 60%, final written and oral exam. Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 40% / 60%	
Learning outcomes: The aim of teaching Slovak language 1 and 2 is to teach a foreign student the basic Slovak grammar, the appropriate vocabulary of Slovak language so that he is able to manage everyday situations.	
Class syllabus: Slovak language: 1. Repetition of language content from the winter semester. Lesson 9: I took the exam yesterday, past tense. 2. Lesson 9: Singular instrumental, future tense, adjective formation. 3. Repetition: formation of past / present / future tenses. 4. Lesson 10: free time, interests. Local of the plural, world sides, indefinite pronouns. 5. Negative pronouns. Lesson 11: We talk about food, meals during the day, instrumental, plural forms. 6. Repetition of lessons 9-11. 7. TEST 1. 8. Lesson 12: We travel. Adverbs: gradation, singular dative. 9. Plural dative. Lesson 13: Services, comparison of adjectives, gradation. 10. Lesson 14: We do shopping. Genitive singular. 11. Repetition of lessons 12-14. 12. TEST 2. 13. Students' presentations (My country, my city, my family ...). German Language: 1. Gynäkologie und Geburtshilfe Frauenheilkunde Anatomie der Gebärmutter	

Grammatik: Wortbildung

2. Schwangerschaft

Geburtshilfe

Gefahren in der Schwangerschaft

Grammatik: Adjektive

3. Frauenkrankheiten

Brustkrebs

Postmenstrualsyndrom

Grammatik: Mehrteilige Konjunktionen

4. Hämatologie

Das Blut – Zusammensetzung des Blutes

Physiologie des Blutes – Hämostase

Grammatik: Partizipien I und II

5. Blutgruppen

Blutgruppen - Systeme

Rhesus Faktor

Grammatik: Partizipien als Adjektivattribute

6. Test I

7. Bluterkrankungen

Anämie

Hämophilie

Grammatik: Präpositionen mit Genitiv

8. Bluterkrankungen

Leukämie – Blutkrebs

Ablauf der Blutgerinnung

Grammatik: Präpositionen mit Genitiv

9. Otorhinolaryngologie

Aufbau und Funktion des Ohres, das Hören

Die Nase – Aufbau und Funktion

Grammatik: Erweiterte Partizipialattribute

10. H-N-O-Krankheiten

Heuschnupfen, Sinusitis, Angina

Larynxkarzinom, Tinnitus, Otitis media

Grammatik: n-Deklination der Substantive

11. H-N-O-Krankheiten

Formen von Sinusitis

Medizinische Berufe

Grammatik: n-Deklination der Substantive

12. Stomatologie

Aufbau der Zähne

Milchgebiss Erwachsenengebiss

Grammatik: Pronominaladverbien und Fragewörter

13. Zahnerkrankungen

Karies, Plaque, Parodontitis und Zahnausfall

Stufen bei Karies

Gespräch beim Zahnarzt

Grammatik: Antonyme

14. Test II

Recommended literature:

<p>Slovak language: Kolektív autorov (2020) Slovenčina pre zahraničných študentov. Bratislava: Vydavateľstvo UK. Kolektív autorov (2013) Slovensko-anglický a anglicko-slovenský slovník pre zahraničných študentov. Bratislava: Vydavateľstvo UK.</p> <p>German language: Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica. Džuganová, B. Barnau, A.: Nemčina pre lekárov a pracovníkov v zdravotníctve, Bratislava: Easton Books, 2017. 274s., učebnica. Firnhaber-Sensen, U. - Rodi, M.: Deutsch im Krankenhaus Neu. Berlin: Langenscheidt 2009. 128 s.</p>																				
<p>Languages necessary to complete the course: Slovak language, English language, German language</p>																				
<p>Notes:</p>																				
<p>Past grade distribution Total number of evaluated students: 1177</p> <table border="1"> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> <tr> <td>56,07</td><td>0,08</td><td>27,36</td><td>10,03</td><td>4,5</td><td>1,95</td><td>0,0</td></tr> </table>							A	ABS0	B	C	D	E	FX	56,07	0,08	27,36	10,03	4,5	1,95	0,0
A	ABS0	B	C	D	E	FX														
56,07	0,08	27,36	10,03	4,5	1,95	0,0														
<p>Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, PhD.</p>																				
<p>Last change: 06.04.2022</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-SJ3/16	Course title: Slovak Language (3)/Foreign Language (3)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 3.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-SJ1/15 - Slovak Language (1)/Foreign Language (1)	
Course requirements: 95% participation in seminars, two written credit tests, the minimum percentage to pass each test is 60%. Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 50% / 50%	
Learning outcomes: The aim of teaching Slovak language 3 and 4 is to teach a foreign student the basic vocabulary used in contact with the patient, but also the basics of Slovak medical terminology, so that the student is able to orient himself in the hospital and at the same time read and understand medical notices, recommendations and instructions.	
Class syllabus: Slovak language: 1. Repetition of contact points of conversation and grammar from the 1st year. 2. Lesson 1: Human body - names of parts, internal organs. Doctor's dialogues, sore throat, cough, abdominal pain. 3. Lesson 2: Hospital - departments, clinics, appointment of specialists, medical staff. 4. Lesson 3: At the doctor 1, the basic questions, what hurts you, examination. Case report: Amputation of the foot. 5. Lesson 3: At the doctor 2 - on call, doctor's instructions. Lesson 4: Anamnesis - questioning, personal, family history, personal data of the patient. 6. Case report: Thyroid surgery. Repetition of lessons 1-4. 7. TEST 1. 8. Lesson 5: Examination - pressure, pulse, temperature, types of examinations. Case report: Unbearable headache. 9. Lesson 6: Drugs - types of drugs, method of use, in the pharmacy - dialogues. 10. Lesson 7: Infectious diseases (names), flu symptoms, sore throat. Case report: Abdominal pain and chills. 11. Lesson 8: Urology - organs, diseases. For a urologist. Case report: Renal failure. 12. Repetition of lessons 5-8. Case report: Kidney stones.	

13. TEST 2.

German language:

1. Endokrinologie

Die exokrinen und endokrinen Drüsen

Hormonbildende Drüsen

Grammatik: Direkte und indirekte Fragesätze

2. Endokrinologie

Hormonbildende Drüsen

Funktion und Wirkung der Hormone

Grammatik: Direkte und indirekte Fragesätze

3. Stoffwechsel- und Hormonerkrankungen

Stoffwechsel

Hormonerkrankungen

Grammatik: Direkte und indirekte Fragesätze

4. Stoffwechsel- und Hormonerkrankungen

Schilddrüsenerkrankungen

Hashimoto-Thyreoiditis

Grammatik: Direkte und indirekte Fragesätze

5. Stoffwechsel- und Hormonerkrankungen

Zuckerkrankheit (Diabetes mellitus)

Fettstoffwechselerkrankungen

Grammatik: Zahlen, Zielwerte ermitteln

6. Test I

7. Augenheilkunde

Aufbau des Auges

Anhangsorgane des Auges Augenmuskeln

Grammatik: Nominalisierung von Verben

8. Funktion des Auges

Sehvorgang

Akkommodation

Grammatik: Nominalisierung von Adjektiven

9. Funktion des Auges

Sehvorgang

Wie die Farbe entsteht

Grammatik: Nominalisierung von Verben und Adjektiven

10. Augenkrankheiten

Augenbeschwerden durch Entzündungen

Uveitis

Grammatik: Passiversatzformen

11. Altersbedingte Augenkrankheiten

Altersbedingte Makuladegeneration

Glaukom, Katarakt

Grammatik: Passiversatzformen

12. Sehschwäche

Fehlsichtigkeit (Weit-, Kurz- und Stabsichtigkeit)

Wie es zur Kurzsichtigkeit kommt

Grammatik: Passiversatzformen

13. Sehschwäche

Augenoperationen

Refraktive Chirurgie Grammatik: Passiversatzformen 14. Test II						
Recommended literature: Slovak language: Kolektív autorov (2020) Slovenčina pre zahraničných študentov. Bratislava: Vydavateľstvo UK. Kolektív autorov (2013) Slovensko-anglický a anglicko-slovenský slovník pre zahraničných študentov. Bratislava: Vydavateľstvo UK. Balková, D. a kol. (2020) Odborná slovenčina v medicínskej praxi – kazuistiky. Bratislava: Vydavateľstvo UK. German language: Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica. Džuganová, B. Barnau, A.: Nemčina pre lekárov a pracovníkov v zdravotníctve, Bratislava: Easton Books, 2017. 274s., učebnica. Firnhaber-Sensen, U. - Rodi, M.: Deutsch im Krankenhaus Neu. Berlin: Langenscheidt 2009. 128 s.						
Languages necessary to complete the course: Slovak language English language German language						
Notes:						
Past grade distribution Total number of evaluated students: 924						
A	ABS0	B	C	D	E	FX
51,41	0,11	29,65	13,31	4,87	0,65	0,0
Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-SJ4/16	Course title: Slovak Language (4)/Foreign Language (4)
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-SJ2/15 - Slovak Language (2)/Foreign Language (2) and JLF.ÚCJ/J-S-VL-SJ3/16 - Slovak Language (3)/Foreign Language (3)	
Course requirements: 95% participation in seminars, two written credit tests, the minimum percentage to pass each test is 60%, final written and oral exam. Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60% Scale of assessment (preliminary/final): 40% / 60%	
Learning outcomes: The aim of teaching Slovak language 3 and 4 is to teach a foreign student the basic vocabulary used in contact with the patient, but also the basics of Slovak medical terminology, so that the student is able to orient himself in the hospital and at the same time read and understand medical notices, recommendations and instructions.	
Class syllabus: Slovak language: 1. Repetition of the basics from the winter semester. Rescue service - questions, instructions. 2. Lesson 9: Accidents, injuries, first aid, ambulance. Case report: Rheumatic fever. 3. Lesson 10: Cardiovascular diseases - heart disease, examination. Case report: Heart attack. 4. Lesson 11: Diseases of the digestive system - parts of the digestive system, symptoms of diseases. Case report: Appendicitis. 5. Patient communication training Lesson 9-11. Case report: Water in the body. 6. TEST 1. 7. Lesson 12: Gynecology 1 - organs, examination by a gynecologist, cancer. 8. Gynecology 2 - dialogue "Mrs. Pekná". Case report: Breast in the breast. Lesson 13: Pediatrics - childhood. 9. Pediatrics - infectious diseases, "children's speech" - diminutives. Pediatric communication, questions, instructions. 10. Lesson 14: Orthopedics - names of bones and body parts, diseases of the musculoskeletal system and bone diseases. 11. Patient communication training Lessons 12-14. Case report: Cyst in the uterus. 12. TEST 2.	

13. Repetition for oral exam (topics + case studies).

German language:

1. Dermatologie

Aufbau der Haut

Grammatik: Personalpronomen

2. Dermatologie

Funktion der Haut

Grammatik: Reflexivpronomen

3. Hauterkrankungen

Hautkrebs

Neurodermitis

Grammatik: Relativpronomen

4. Hauterkrankungen

Neurodermitis

Grammatik: Personal-, Reflexiv- und Relativpronomen

5. Pädiatrie

Kinderheilkunde

Jugendmedizin

Grammatik: Nebensätze – Temporalsätze

6. Test I

7. Pädiatrie

Vorsorgeuntersuchungen für Kinder und Jugendliche

Jugendgesundheitsuntersuchung J1

Grammatik: Nebensätze – Temporalsätze

8. Kinderkrankheiten

Häufige Kinderkrankheiten (Mumps, Röteln, Scharlach, Windpocken)

Masern

Ein Besuch beim Kinderarzt

Grammatik: Nebensätze – Temporalsätze

9. Neurologie

Zentrales und peripheres Nervensystem

Das Gehirn und die Verknüpfungen im Gehirn

Grammatik: Konjunktiv II

10. Neurologie

Funktionen der Gehirnbereiche

Das Gehirn: Verschiedene Felder – verschiedene Funktionen

Grammatik: Konjunktiv II

11. Neurologische Erkrankungen

Erkrankungen des menschlichen Nervensystems

Vielfalt von Krankheitsbildern

Grammatik: Ratschläge für das Lösen eines Problems

12. Neurologische Erkrankungen

Alzheimer – Krankheit des Vergessens

Ratschläge für Alzheimer-Patienten

Grammatik: Ratschläge für das Lösen eines Problems

13. Neurologische Erkrankungen

Erkrankungen des menschlichen Nervensystems

Ratschläge für Alzheimer-Patienten

Grammatik: Ratschläge für das Lösen eines Problems

14. Test II

Recommended literature:

Slovak language:

Kolektív autorov (2020) Slovenčina pre zahraničných študentov. Bratislava: Vydavateľstvo UK.

Kolektív autorov (2013) Slovensko-anglický a anglicko-slovenský slovník pre zahraničných študentov. Bratislava: Vydavateľstvo UK.

Balková, D. a kol. (2020) Odborná slovenčina v medicínskej praxi – kazuistiky. Bratislava: Vydavateľstvo UK.

German language:

Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica.

Džuganová, B. Barnau, A.: Nemčina pre lekárov a pracovníkov v zdravotníctve, Bratislava: Easton Books, 2017. 274s., učebnica.

Firnhaber-Sensen, U. - Rodi, M.: Deutsch im Krankenhaus Neu. Berlin: Langenscheidt 2009. 128 s.

Languages necessary to complete the course:

Slovak language

English language

German language

Notes:**Past grade distribution**

Total number of evaluated students: 893

A	ABS0	B	C	D	E	FX
52,97	0,0	25,08	12,65	6,72	2,58	0,0

Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Bojana Ladrová, PhD., Mgr. Anna Barnau, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-614/19	Course title: Social and Ethical Aspects in Health Care
Educational activities: Type of activities: practicals Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites: JLF.ÚVZ/J-S-VL-617/19 - Public Health (1)	
Recommended prerequisites: Public Health 1	
Course requirements: ppt (max. 50 p.), test (max. 50 p.) Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 59 % and less Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student is able to solve social and ethical problems related to health care providing. The student is able to apply social communication among health care workers and in physician-patient relations. The student understands the importance of respect of human life since conception to death.	
Class syllabus: Social and ethical problems of communication in health care providing. Social and ethical aspects of health care providing to woman, mother and child. Social and ethical aspects of health care providing in geriatrics. Social and ethical aspects of health care providing to handicapped patients. Social and ethical aspects of health care providing to dying patients. Social and ethical aspects of transplantations and blood donorship.	
Recommended literature: Recommended literature: VAJDA J.: Úvod do etiky, ENIGMA Nitra, 2004, s. 251, ISBN 80-89132-12-X MUNZAROVÁ M.: Lékařský výzkum a etika, GRADA Praha, 2005, s. 120, ISBN 80-247-0924-4 TATE P.: Komunikace pro lékaře, GRADA Praha, 2005, s. 164, ISBN 80-247-0911-2	
Languages necessary to complete the course: english	
Notes:	

Past grade distribution						
Total number of evaluated students: 0						
A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: PhDr. Marta Tkáčová, PhD.						
Last change: 05.09.2024						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KTL/J-S-VL-553/18	Course title: Sport Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 2	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-538/17 - Internal Medicine Propedeutics (2)	
Course requirements: Seminar work. Evaluation of students - test. Minimum for test attainment: 50 %. Grading: A: 90–100 %, B: 80 %, C: 70 %, D: 60 %, E: 50 %, FX: 0-40 % Scale of assessment (preliminary/final): Final evaluation	
Learning outcomes: Completing of the subject also contributes to forming a holistic view of human health and disease in relation to physical and physical activity. The student understands the basics, functions of the organism during the exercise; can solve the basic situations concerning individual types of reactions of the organism during the exercise; can apply the knowledge of physical activity influence in healthy and diseased organism; can analyze the basic pathological organism reactions to physical exertion; can identify non-physiological body reactions in a healthy and diseased organism.	
Class syllabus: Practical teaching <ol style="list-style-type: none"> 1. Basic preventive medical examination of athletes (history, physical examination, laboratory techniques, anthropometry, dynamometry, examination of the cardiovascular system, physiological murmur, contraindication for sport). 2. Assessment of physical and functional capacity (bicycle and treadmill exercise testing, indication, contraindication, first aid, evaluation of findings). Chest radiographic and echocardiographic examination, computer assistance in evaluation of findings (athletic heart, physiological enlargement of the heart). Movement - the basis of life. Regeneration and relaxation. 3. Electrocardiographic examination of athlete at rest and during exercise, physiological abnormalities of ecg, signs of trainability on ecg. 4. System of rational lifestyle of athlete (nutritional systems, drinking regimens, macrobiotic and vegetarian feeding, microelements, vitamins). Increase and decrease of body weight. 5. Functional-diagnostic examination in some diseases, prescription of physical exercise in some diseases. 6. Functional testing of respiratory system. Telemetric examination, heart-rate variability, Holter monitoring, sport-tester, sport-medical observation of athlete in sports environment. Doping, sudden death in athlete. 	

7. The influence of the cold, heat, water and altitude environment on the body.

Lectures:

1. Nutrition and dietetics in life-style in healthy people and athletes (basic diet, demands on protein, fat, carbohydrates and energy, vitamins, minerals, nutrition during age periods, energy output) part I.

2. Nutrition and dietetics in healthy people and athletes (increase and decrease of body weight, saccharide loading, nutrition before/during/after competition, multisupplementation) part II.

Exercise in the prevention and management of internal disease. Cardiovascular effects of sports activity and physiological response to sports activity.

3. Exercise electrocardiographic testing (indication, contraindication, methods, evaluation of findings). Environmental conditions and sport (heat, cold, altitude, water). Sudden death in athlete. Doping and doping control.

4. The impact of regular training on human biological systems (musculoskeletal system, cardiovascular and respiratory system, metabolic capacity, central nervous and endocrine system). Differential diagnosis between hypertrophic cardiomyopathy and athletes' heart. Cardiovascular diseases and physical activity.

5. Physical activity in asthma bronchiale, obesity and diabetes mellitus. Hypertension and physical activity.

6. Prevention and management of sport injuries (causes of injuries, diagnostic principles, diagnosis and management of overuse injuries, principles of rehabilitation after injuries, micro/macro-trauma).

7. Physical activity in elder people (maintenance of physical fitness, relation to chronic disease, osteoporosis in elderly). Overtraining. Abstinence syndrome of athlete.

Recommended literature:

Marček, T.: Sports Medicine (Manual of Practical Sports Medicine)

web pages -

www.medinfo.sk (basic educational resource) + <http://www.sportsmedicine.com/>

Languages necessary to complete the course:

English

Notes:

Past grade distribution

Total number of evaluated students: 577

A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Dušan Meško, PhD.

Last change: 06.04.2022

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚFa/J-S-VL-598/17		Course title: Student Scientific Activity (1)				
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 50s Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 6.						
Educational level: I.II.						
Prerequisites:						
Recommended prerequisites: None.						
Course requirements: Laboratory or clinical work under supervision of tutor at departments. Presentation of results at conference or publication of paper in a scientific journal (optional). Scale of assessment (preliminary/final): 100/0						
Learning outcomes: The students obtains skills (under supervision of his/her tutor) in laboratory work, using various scientific methods, statistical analysis and presentation of results at scientific conferences. He/she learns how to prepare a scientific publication.						
Class syllabus: Work at departments/clinics under supervision of a tutor. The selection of topic is individual based on an interest of the student and on yearly updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.						
Recommended literature: Hanacek J, Javorka K et al. Introduction to scientific work. Martin, 2011, Jessenius Faculty of Medicine, Comenius University. ISBN 978-80-88866-95-4. p. 196.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 3						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Michal Šimera, PhD.						

Last change: 29.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚFa/J-S-VL-599/18		Course title: Student Scientific Activity (2)				
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 50s Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 7.						
Educational level: I.II.						
Prerequisites:						
Recommended prerequisites: None						
Course requirements: Laboratory or clinical work under supervision of tutor at departments. Presentation of results at conference or publication of paper in a scientific journal (optional). Scale of assessment (preliminary/final): 100/0						
Learning outcomes: The students obtains skills (under supervision of his/her tutor) in laboratory work, using various scientific methods, statistical analysis and presentation of results at scientific conferences. He/she learns how to prepare a scientific publication.						
Class syllabus: Work at departments/clinics under supervision of a tutor. The selection of topic is individual based on an interest of the student and on yearly updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.						
Recommended literature: Hanacek J, Javorka K et al. Introduction to scientific work. Martin, 2011, Jessenius Faculty of Medicine, Comenius University. ISBN 978-80-88866-95-4. p. 196.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 6						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Michal Šimera, PhD.						

Last change: 29.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚFa/J-S-VL-600/18		Course title: Student Scientific Activity (3)				
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 50s Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 8.						
Educational level: I.II.						
Prerequisites:						
Recommended prerequisites: None						
Course requirements: Laboratory or clinical work under supervision of tutor at departments. Presentation of results at conference or publication of paper in a scientific journal (optional). Scale of assessment (preliminary/final): 100/0						
Learning outcomes: The students obtains skills (under supervision of his/her tutor) in laboratory work, using various scientific methods, statistical analysis and presentation of results at scientific conferences. He/she learns how to prepare a scientific publication.						
Class syllabus: Work at departments/clinics under supervision of a tutor. The selection of topic is individual based on an interest of the student and on yearly updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.						
Recommended literature: Hanacek J, Javorka K et al. Introduction to scientific work. Martin, 2011, Jessenius Faculty of Medicine, Comenius University. ISBN 978-80-88866-95-4. p. 196.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 2						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Michal Šimera, PhD.						

Last change: 29.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚFa/J-S-VL-601/19		Course title: Student Scientific Activity (4)				
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 50s Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 9.						
Educational level: I.II.						
Prerequisites:						
Recommended prerequisites: None						
Course requirements: Práca pod dohľadom školiteľa na pracoviskách. Prezentácia výsledkov na konferencii alebo publikácia článku vo vedeckom/odbornom časopise (nepovinný výstup)! Scale of assessment (preliminary/final): 100/0						
Learning outcomes: The students obtains skills (under supervision of his/her tutor) in laboratory work, using various scientific methods, statistical analysis and presentation of results at scientific conferences. He/she learns how to prepare a scientific publication.						
Class syllabus: Work at departments/clinics under supervision of a tutor. The selection of topic is individual based on an interest of the student and on yearly updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.						
Recommended literature: Hanacek J, Javorka K et al. Introduction to scientific work. Martin, 2011, Jessenius Faculty of Medicine, Comenius University. ISBN 978-80-88866-95-4. p. 196.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 3						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Michal Šimera, PhD.						

Last change: 29.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.ÚFa/J-S-VL-602/19		Course title: Student Scientific Activity (5)				
Educational activities: Type of activities: seminar Number of hours: per week: per level/semester: 50s Form of the course: on-site learning						
Number of credits: 1						
Recommended semester: 10.						
Educational level: I.II.						
Prerequisites:						
Recommended prerequisites: None						
Course requirements: Laboratory or clinical work under supervision of tutor at departments. Presentation of results at conference or publication of paper in a scientific journal (optional). Scale of assessment (preliminary/final): 100/0						
Learning outcomes: The students obtains skills (under supervision of his/her tutor) in laboratory work, using various scientific methods, statistical analysis and presentation of results at scientific conferences. He/she learns how to prepare a scientific publication.						
Class syllabus: Work at departments/clinics under supervision of a tutor. The selection of topic is individual based on an interest of the student and on yearly updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.						
Recommended literature: Hanacek J, Javorka K et al. Introduction to scientific work. Martin, 2011, Jessenius Faculty of Medicine, Comenius University. ISBN 978-80-88866-95-4. p. 196.						
Languages necessary to complete the course: English						
Notes:						
Past grade distribution Total number of evaluated students: 2						
A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0
Lecturers: doc. RNDr. Michal Šimera, PhD.						

Last change: 29.03.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚO/J-S-VL-520/19	Course title: Summer Practice - Nursing Practice
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚO/J-S-VL-634/22 - Basics of Nursing Techniques	
Course requirements: To complete the subject (ABS0) student must meet the following conditions: # completion of 80 hours of nursing practice under the supervision of a nurse in real conditions of clinical nursing practice (2 weeks, 8 hours per day) # submission of following documents to responsible teacher: confirmation about safety regulations and record of arrivals and departures to/from workplace, confirmed allocation sheet for Nursing practice, list of practical outputs (for check) – student is obliged to perform each output at least 3 times during nursing practice. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: Within completion of the subject student will apply fundamental principles of nursing care provision and will respect standard procedures of selected nursing techniques and interventions while providing nursing care to the patients in real conditions of clinical nursing practice. Student will implement reliable evidence-based information for safe healthcare practice. Acquired clinical competences together with ability to argue for and justify the method / technique of the procedure chosen will be the basis for the ability to manage basic and frequently occurring clinical nursing situations and react to them correctly in real clinical practice in the future. After completion of this subject while performing nursing procedures student can: <ul style="list-style-type: none"> - argue for and justify the method / technique of the procedure chosen, - prepare equipment and supplies necessary to carry out the procedure, - assess the patient in relation to the procedure, - provide instructions and support the patient prior to the procedure, - prepare the patient for the procedure from physical perspective, - perform hand hygiene (hand washing and hygienic / surgical disinfection) - carry out the procedure independently while following clinical standards and guidelines, respecting the principles of asepsis, - communicate with the patient during the procedure, provide patient education / instruction after the procedure, 	

- record and document the procedure and value assessed,
- process all the equipment and items used.

Class syllabus:

Dressing technique – types of dressing material, principles and principles of dressing technique, basic dressing techniques, training of selected types of bandages (bandage of the hand, forearm, elbow, foot, high compression bandage of the lower limb).

Collection of biological material – blood collection – types of examinations, principles and principles of collection, prevention of puncture injuries with a used needle, training in venous blood collection (open and closed), capillary blood collection (ABR and blood glucose testing).

Parenteral drug administration – general principles of drug preparation and application, preparation of drugs from ampoule and vial, preparation and training application of intradermal, subcutaneous (LMWH, heparin, insulins), intramuscular and intravenous injection.

Gastric tube insertion and enteral nutrition - general principles of insertion and removal gastric tube and administration of enteral nutrition and drugs, training in the introduction and removal of gastric tube.

Vital functions – training in measuring and monitoring vital functions (blood pressure, pulse, breath, body temperature, measuring oxygen saturation with a pulse oximeter).

Bladder catheterization – Indications, types of urinary catheters, general principles catheterization of men and women, urine sampling, physical examination of urine, infection prevention

urinary tract, practice of direct catheter urine sampling in women, introduction and removal of permanent urinary catheter in women.

Nursing techniques and procedures in surgery – principles of surgical asepsis, preparation of a sterile table, care of aseptic and septic wounds, types of dressing material, general principles of treatment and wound dressing; training in handling sterile aids, surgical instruments and packaging materials – dressing table, dressing of aseptic and septic wounds, treatment of the drain area, training in donning and undressing gloves (non-sterile, sterile).

Recommended literature:

Dingová, M., Lepiešová, M., Rosenberg, A. et al.: Basics of Nursing. Textbook for Medical and Nursing Students. Martin : Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, 2011.

Lepiešová, M., Dingová, M., Nemcová, J., Ovšonková, A., Miertová, M., Tabaková, M., Tomagová, M.: Basics of nursing presentations. Martin : JLFUK – portal MEFANET, 2012, 419 p. [online] ISBN 1337-7396ISSN 1337-7396. Available on: <http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtIs000257495.pdf>

Kozier, B., Berman, A., Erb, G., Snyder, S. J.: Fundamentals of Nursing: Concepts, Process and Practice. 7th ed. Pearson Prentice Hall, 2004.

Perry, A. G., Potter, P. A., Ostendorf W.: Clinical Nursing Skills & Techniques. 8th ed. St. Louis, Missouri: Mosby/Elsevier, 2013.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 12

ABS0	M
100,0	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Martina Lepiešová, PhD.
Last change: 06.04.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/J-S-VL-579/19	Course title: Summer Practice-Gynecology and Obstetrics
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.GPK/J-S-VL-562/19 - Gynecology and Obstetrics (1)	
Course requirements: Clinical practice at the department of gynecology and obstetrics at the hospital-type department as a secondary physician for 2 weeks (80 hours in total). Scale of assessment (preliminary/final): Continuous.	
Learning outcomes: Credits	
Class syllabus: Clinical practice in the range of basic diagnostic and therapeutic procedures, assistance in childbirth, caesarean sections, and gynecological surgery.	
Recommended literature: Cunningham, F. et al.: Williams Obstetrics. Williams Obstetrics 26e. McGraw Hill / Medical; 26th edition, 2022, 1328 s., ISBN-13: 978-1260462739. Hoffman, B. et al.: Williams Gynecology. McGraw-Hill / Medical; 4th ed., 2020, 1328 s., ISBN-13: 978-1260456868.	
Languages necessary to complete the course: English	
Notes:	
Past grade distribution Total number of evaluated students: 446	
ABS0	M
100,0	0,0
Lecturers: prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Erik Kúdela, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Petra Kasajová, PhD., MUDr. Jana Siváková, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD., MUDr. Tomáš Rokos, PhD.	

Last change: 07.04.2022
Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-554/22	Course title: Summer Practice-Internal Medicine
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.IKG/J-S-VL-540/18 - Internal Medicine (2)	
Course requirements: Personal student daily record about activities done signed by head/subhead of the department.	
Learning outcomes:	
Class syllabus: Summer practice : 1/ practice at patient bed under supervision of assistant (tutor), examination of patient, patient chart (record) preparation, proposal of diagnostic procedures, proper use of forms used at the department 2/ ward round attendance, disease dynamics observation, consultation activity and therapeutic procedures under assistant supervision (tutor), evaluation of auxiliary examinations, taking care of 4-5 patients at ward 3/ daily patient record, diagnostic results, suggestion of home care, patient discharge, 4/ sampling: blood, urine, sputum, stool. Application: intravenous injections, gastric/duodenal probe, bladder catheterization, 5/ assistantship at: pleural/ abdominal puncture, liver/kidney/lymphatic node/bone marrow biopsy, endoscopic examination, x-ray picture evaluation. Independent basic examination : urine, urine sediment, blood count/differential count, ecg examination, 6/ indication/diagnostic procedures and administration of blood transfusion, 7/ information about work at Intensive Care Unit, 8/ patient admission procedures (in-patient) and out- patient health care, 9/ attendance at health care service (acute admission/examination/diagnostic procedures, therapy), 10/ health care education at ward, preparation and presentation of seminar- paper.	
Recommended literature:	
Languages necessary to complete the course: english	
Notes:	

Past grade distribution	
Total number of evaluated students: 225	
ABS0	M
100,0	0,0
Lecturers: prof. MUDr. Rudolf Hyrdel, CSc.	
Last change: 06.04.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-580/19	Course title: Summer Practice-Pediatrics
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 80s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.KDD/J-S-VL-571/19 - Pediatrics (1)	
Course requirements: activity evaluation, credit Scale of assessment (preliminary/final): to master basic diagnostic and therapeutic procedures in pediatrics, to become familiar with the administrative procedures in pediatric clinic	
Learning outcomes: to master basic diagnostic and therapeutic procedures in pediatrics, to become familiar with the administrative procedures in pediatric clinic	
Class syllabus: dispensarization, immunization, routine preventive physical examinations, therapeutics, medical records	
Recommended literature: Behrman, R. E. Kliegman, R.M., Jenson, H.B. Nelson Textbook of Pediatrics. Philadelphia: W. B. Saunders Comp., 2011. ISBN 978143770755 Lissauer, T., Clayden, G. Illustrated textbook of Paediatrics. 2004. 410 s. ISBN 0-7234-3178-7 Behrman, R.E. Essentials of Pediatrics. Philadelphia: W.B.Saunders Comp., 2000. 795 pp. Allen, Hugh D. et al. Moss and Adams' Heart Disease in Infants, Children and Adolescents, Including the Fetus and Young Adult. Philadelphia: Lippincott Williams & Wilkins, 2001. 1468 pp.	
Languages necessary to complete the course: English language	
Notes: VL students can have a summer practice: 1. at the Department of Children and Adolescents of JLF UK 2. at the Department of Pediatric Tuberculosis and Respiratory Diseases at ŠUDTaRCH in Dolný Smokovec 3. in hospitals with which JLF UK has a contract 4. Abroad, subject to prior agreement with subject guarantor	

Past grade distribution	
Total number of evaluated students: 446	
ABS0	M
100,0	0,0
Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA	
Last change: 07.04.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-S-VL-554/22	Course title: Summer Practice-Surgery
Educational activities: Type of activities: practice Number of hours: per week: per level/semester: 100s Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.ChKTC/J-S-VL-524/22 - Surgery (2)	
Course requirements: ABSO - Positive evaluation of the head of the surgical department.	
Learning outcomes: Graduated know the work of secondary doctors in the surgical ward.	
Class syllabus: Students are acquainted with the work of secondary doctors in the surgical ward.	
Recommended literature:	
Languages necessary to complete the course: english language	
Notes:	
Past grade distribution Total number of evaluated students: 223	
ABS0	M
100,0	0,0
Lecturers: doc. MUDr. Juraj Miklušica, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Lukáš Spevák, MUDr. Adam Švec, PhD., MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Miloslav Mišánik	
Last change: 06.04.2022	
Approved by:	

STATE EXAM DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-SVL-SS51/22	Course title: Surgery
Number of credits: 6	
Educational level: I.II.	
Course requirements: Practical and theoretical state exam	
Learning outcomes: The graduate has a good knowledge of basic surgical diseases, knows the principles of daily care of the surgical patient, as well as the principles of work in the surgical ambulances and operating room. He can also apply the above knowledge to other surgical specialisations / orthopedics, traumatology, plastic surgery, pediatric surgery, anesthesiology and intensive care medicine /.	
State exam syllabus:	
Recommended literature: Fischer J. et al.: Fischer's Mastery of Surgery, seventh edition, 2018, Volume 1,2 Sabiston, D.C.: Textbook of Surgery 21st edition. The biological Basic of Modern Surgical Practice. Philadelphia: W.B. Saunders Comp. 2021, 2176 pp. Liechty, D., Soper, R.T.: Fundamental of Surgery. Philadelphia: C.V.Mosby Comp., 1989, 646 pp. Way, L.W.: Current Surgical Diagnosis and Treatment. New York: Lange Medical Books, 2006. 1453 pp. Skinner, H.B.: Current Diagnosis and Treatment in Orthopedics. Norwalk: Appleton and Lange, 1995. 645 pp. Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages. Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s. Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.	
Languages necessary to complete the course: english language	
Last change: 15.03.2022	
Approved by:	

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-S-VL-523/22	Course title: Surgery (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites: JLF.ChKTC/J-S-VL-522/22 - Surgical Propedeutics (1)	
Course requirements: Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 65 %. Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 64 % and less Final assessment: test. Scale of assessment (preliminary/final): english language	
Learning outcomes: The graduate masters the issue of abdominal emergencies, the principles of their diagnosis and treatment in adults and children. He knows the surgical diseases of the stomach, liver, gallbladder, bile ducts, pancreas and is familiar with indications and principles of their surgical treatment. He also knows the surgical diseases of the small and large intestine and their surgical treatment. He knows the principles of diagnosis and treatment of internal and external hernias.	
Class syllabus: Intestinal obstruction (classification, pathophysiology of disorders, diagnosis, treatment). Acute abdomen – origin in inflammation. Classification, complications, diagnosis, treatment. Intestinal fistulas. Fluid and electrolytes disorders in peritonitis (diagnosis, differential diagnosis, treatment). Gastrointestinal bleeding from upper and lower GIT. Acute abdomen in children. KDCH Hernias. Internal hernias - inguinal, femoral and umbilical. Internal hernias –diaphragmatic and hiatal hernias. Gastrointestinal neuroendocrine tumors – surgical treatment. Stomach precanceroses. Malignant tumors of the stomach (diagnosis, surgical treatment). Gastric and duodenal ulcers (complications, indications for surgical treatment). Post-resection syndrome and its therapy. Metabolic syndrome. Principles of bariatric surgery. Surgical diseases of the liver. Liver abscess, liver cysts, benign and malignant liver tumors.	

Non-tumorous and tumorous diseases of the gallbladder and biliary tract. Cholecystolithiasis, choledocholithiasis, cholecystitis, cholangitis, Benign and malignant tumors of gall bladder and biliary tract.

Acute and chronic pancreatitis.

Exocrine and endocrine tumors pancreas.

Tumorous diseases of the small intestine, large intestine and rectum.

Nontumorous diseases of the small intestine, large intestine and rectum. IBD, diverticulosis, diverticulitis, haemorrhoids, perianal fistulas and abscesses.

Recommended literature:

Fischer J. et al.: Fischer's Mastery of Surgery, seventh edition, 2018, Volume 1,2

Sabiston, D.C.: Textbook of Surgery 21st edition. The biological Basis of Modern Surgical Practice. Philadelphia: W.B. Saunders Comp. 2021, 2176 pp.

Liechty, D., Soper, R.T.: Fundamental of Surgery. Philadelphia: C.V.Mosby Comp., 1989, 646 pp.

Way, L.W.: Current Surgical Diagnosis and Treatment. New York: Lange Medical Books, 2006. 1453 pp.

Skinner, H.B.: Current Diagnosis and Treatment in Orthopedics. Norwalk: Appleton and Lange, 1995. 645 pp.

Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages.

Chung K: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.

Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.

Languages necessary to complete the course:

english language

Notes:

Past grade distribution

Total number of evaluated students: 113

A	ABS0	B	C	D	E	FX
4,42	0,0	45,13	29,2	20,35	0,88	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Adam Švec, PhD., MUDr. Lukáš Spevák, MUDr. Šimon Čičel, MUDr. Miloslav Mišánik, MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD.

Last change: 29.09.2023

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-S-VL-524/22	Course title: Surgery (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 3	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites: JLF.ChKTC/J-S-VL-523/22 - Surgery (1) and JLF.KVVTCh/J-S-VL-522a/22 - Surgical Propedeutics (2)	
Course requirements: Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 65 %. Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 64 % and less Final assessment: test.	
Learning outcomes: The graduate of the subject understands diseases of the mammary gland, diseases of the thoracic and mediastinal organs. He has knowledge of the basics of cardiac surgery, heart and vascular injuries. He masters the basic issues of vascular diseases and vascular approaches to hemodialysis. The graduate knows the concept, content and basics of plastic surgery, its surgical techniques, examination methods and therapeutic procedures. The graduate knows benign and malignant skin tumors, their division, diagnosis and surgical therapy. He has knowledge of the management of the burns, he knows the surgical therapy of the late consequences of burns.	
Class syllabus: Benignant and malignant diseases of the breast. Congenital disease of gastrointestinal tract – surgical treatment. Congenital disease of respiratory system – surgery treatment. Deformity of chest. Surgical diseases of oesophagus and mediastinum. Surgical diseases of thoracic cavity organs. Basics of cardiosurgery. Heart and blood vessels injury. Surgical diseases of aortal arch branches. Steal syndrome, thoracic outlet syndrome. Surgical diseases of abdominal aorta an its branches. Visceral ischemic syndrome. AAA. Hemodialysis and vessel access for dialysis. Arteriovenous fistulas. Surgical aspects of organ procrument and transplantation. Content of plastic surgery. Skin lobes, transplants. Malignant melanoma and other skin malignancies. Burns, burn shock.	

Recommended literature:

Fischer J. et al.: Fischer's Mastery of Surgery, seventh edition, 2018, Volume 1,2
 Sabiston, D.C.: Textbook of Surgery 21st edition. The biological Basic of Modern Surgical Practice. Philadelphia: W.B. Saunders Comp. 2021, 2176 pp.
 Liechty, D., Soper, R.T.: Fundamental of Surgery. Philadelphia: C.V.Mosby Comp., 1989, 646 pp.
 Way, L.W.: Current Surgical Diagnosis and Treatment. New York: Lange Medical Books, 2006. 1453 pp.
 Skinner, H.B.: Current Diagnosis and Treatment in Orthopedics. Norwalk: Appleton and Lange, 1995. 645 pp.
 Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages.
 Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.
 Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.

Languages necessary to complete the course:

english language

Notes:**Past grade distribution**

Total number of evaluated students: 210

A	ABS0	B	C	D	E	FX
0,48	0,0	25,24	44,76	25,71	2,38	1,43

Lecturers: doc. MUDr. Juraj Miklušica, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Lukáš Spevák, MUDr. Adam Švec, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Šimon Čičel, MUDr. Miloslav Mišánik, MUDr. Martin Pribula, MUDr. Bibiana Hroboňová, MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD.

Last change: 05.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-S-VL-528/22	Course title: Surgery (3)
Educational activities: Type of activities: practicals Number of hours: per week: per level/semester: 360s Form of the course: on-site learning	
Number of credits: 12	
Recommended semester: 11., 12..	
Educational level: I.II.	
Prerequisites: JLF.ChKTC/J-S-VL-524/22 - Surgery (2) and JLF.ChKTC/J-S-VL-054/22 - Summer Practice-Surgery and JLF.NchK/J-S-VL-619/22 - Neurosurgery and JLF.OTK/J-S-VL-570/22 - Ortopedics and JLF.UK/J-S-VL-578/22 - Urology	
Course requirements: Completion of practice before state board exam	
Learning outcomes: Studnet can complete knowledge of surgical diseases, can enhance the practical skills of surgical propedeutics principles, knows the principles of daily care of the surgical patient, knows the principles of work at the surgical ambulance and operating room. Listed knowledge can applicate to other surgical fields / orthopedics, traumatology, plastic surgery, pediatric surgery, anaesthesiology and intensive medicine	
Class syllabus: Daily participation in the work at the surgical ward, ambulance and operating room under the supervision of the designated doctor. Write daily records of treatment of a patient, perform small surgery / removal of stitches, wound dressing, assisting in simple surgeries.	
Recommended literature: Fischer J. et al.: Fischer's Mastery of Surgery, seventh edition, 2018, Volume 1,2 Sabiston, D.C.: Textbook of Surgery 21st edition. The biological Basic of Modern Surgical Practice. Philadelphia: W.B. Saunders Comp. 2021, 2176 pp. Liechty, D., Soper, R.T.: Fundamental of Surgery. Philadelphia: C.V.Mosby Comp., 1989, 646 pp. Way, L.W.: Current Surgical Diagnosis and Treatment. New York: Lange Medical Books, 2006. 1453 pp. Skinner, H.B.: Current Diagnosis and Treatment in Orthopedics. Norwalk: Appleton and Lange, 1995. 645 pp. Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages. Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s. Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.	
Languages necessary to complete the course:	

english language						
Notes:						
Past grade distribution						
Total number of evaluated students: 176						
A	ABS0	B	C	D	E	FX
92,05	0,0	3,98	2,27	0,57	1,14	0,0
Lecturers: doc. MUDr. Juraj Miklušica, PhD., MUDr. Miroslav Slezák, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Lukáš Spevák, MUDr. Michal Hošala, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miloslav Mišánik, MUDr. Adam Švec, PhD.						
Last change: 06.04.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.KVVTCh/J-S- VL-523A/22			Course title: Surgery 1A			
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning						
Number of credits: 4						
Recommended semester: 7.						
Educational level: I.II.						
Prerequisites:						
Course requirements:						
Learning outcomes:						
Class syllabus:						
Recommended literature:						
Languages necessary to complete the course:						
Notes:						
Past grade distribution Total number of evaluated students: 121						
A	ABS0	B	C	D	E	FX
2,48	0,0	43,8	43,8	9,92	0,0	0,0
Lecturers: doc. MUDr. Juraj Miklušica, PhD.						
Last change:						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-S-VL-522/22	Course title: Surgical Propedeutics (1)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 2 / 2 per level/semester: 28 / 28 Form of the course: on-site learning	
Number of credits: 4	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-501/17 - Anatomy (1) and JLF.ÚA/J-S-VL-502/15 - Anatomy (2)	
Course requirements: Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 65 %. Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 64 % and less Final assessment: test.	
Learning outcomes: The graduate is familiar with the content in the field of surgery, from historical aspects to the present. He knows the basic surgical techniques and procedures for adhering to the principles of asepsis and antisepsis. He knows the indications for surgical treatment, can determine the operational risk and specify the principles of preoperative, perioperative and postoperative care. He has important knowledge about the diagnosis and treatment of shock and life-threatening conditions in surgery. He knows the principles of diagnosis and treatment of surgical infections. He is acquainted with the principles of diagnosis and surgical treatment of malignant diseases and acute abdominal emergencies.	
Class syllabus: Patients history. Physical examination of a surgical patient. Invasive and noninvasive diagnostic procedures in management of a surgical patient. Principles of preoperative care. Operative risk. Peculiarities of physical examination in pediatric patients. Invasive and non-invasive diagnostic methods in the examination of pediatric surgical patients History of surgery. Principles and indications of surgical therapy. Basic surgical techniques and procedures. Asepsis, antisepsis, disinfection. Nosocomial infections. Surgical site infections SSI. Nutritional disturbances in surgical patient. Diagnostics. Guidelines for enteral and parenteral nutrition. Complications. Response to injury and operative trauma. Changes of homeostasis in surgical and traumatic patient. Postoperative care on ICU. Postoperative complications – (hypoxia, bleeding, ileus, CNS, cardiovascular, respiratory, renal, GIT, wound). Shock – definition, classification and pathophysiology. Monitoring. Prevention and treatment of shock. Water and electrolyte dysbalance. Acidobasis dysbalance.	

Injury of the soft tissues – mechanism of injury, Classification of the wound. Wound healing. Principles of a wound management. Local and systemic wound healing factors. Sutures – stitching material and techniques. Bedsores.

Blood transfusion, blood derivatives and their substitutes. Indications, risks and complications. Hemostatic mechanisms. Hemostasis disorders in surgical patient. Antiaggregation and anticoagulation treatment. Fibrinolytic treatment.

Infections in surgery – sources. Bacteraemia, sepsis, SIRS, multiple organ failure in sepsis. Factors influencing development and promotion of surgical infection. Prevention, diagnosis and treatment of surgical infection. Antibiotics. Principles of prophylactic and therapeutic usage of antibiotics. Bacteriological monitoring.

Hand infections. Paronychia and paronychia. Abscesses and phlegmons of the hand. Pyogenic infections, lymphadenitis, hidrosadenitis, phlegmona, abscess, osteomyelitis. Anaerobic infections, gas gangrene, folliculitis, furunculus, carbunculus, cheilitis.

The basics of surgical oncology. Classification of tumours. Benign and malignant tumours, precancerosis. Growth and spreading process of malignant tumours. Diagnosis and treatment. Primary and secondary prevention in surgical oncology.

Acute abdomen – definition. Classification. The main diagnostic mistakes, prevention. Principles of acute abdomen examination.

Life threatening conditions in surgery. Basics of CPR. Principles of diagnostic and therapeutic management. General anaesthesia. Local anaesthesia.

Recommended literature:

Fischer J. et al.: Fischer's Mastery of Surgery, seventh edition, 2018, Volume 1,2

Sabiston, D.C.: Textbook of Surgery 21st edition. The biological Basis of Modern Surgical Practice. Philadelphia: W.B. Saunders Comp. 2021, 2176 pp.

Liechty, D., Soper, R.T.: Fundamental of Surgery. Philadelphia: C.V. Mosby Comp., 1989, 646 pp.

Way, L.W.: Current Surgical Diagnosis and Treatment. New York: Lange Medical Books, 2006. 1453 pp.

Skinner, H.B.: Current Diagnosis and Treatment in Orthopedics. Norwalk: Appleton and Lange, 1995. 645 pp.

Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages.

Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.

Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.

Languages necessary to complete the course:

english language

Notes:

Past grade distribution

Total number of evaluated students: 205

A	ABS0	B	C	D	E	FX
9,27	0,0	40,98	33,17	14,63	1,95	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Adam Švec, PhD., MUDr. Šimon Čičel, MUDr. Miloslav Mišánek, MUDr. Lukáš Spevák, MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD.

Last change: 05.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KVVTCh/J-S-VL-522a/22	Course title: Surgical Propedeutics (2)
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 3 / 2 per level/semester: 42 / 28 Form of the course: on-site learning	
Number of credits: 6	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-503/16 - Anatomy (3) and JLF.ChKTC/J-S-VL-522/22 - Surgical Propedeutics (1)	
Course requirements: Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 65 %. Evaluation: A: 91–100 %, B: 81–90 %, C: 73–80 %, D: 66–72 %, E: 60–65 %, FX: 64 % and less Final assessment: test, practical and theoretical exam.	
Learning outcomes: The graduate of the course understands the principles of diagnosis and treatment of injuries of the locomotor system, burns and frostbites. He knows the basic algorithm of diagnostic and therapeutic steps in patients with chest or abdominal trauma and polytrauma. He knows the peculiarities of childhood traumatology. He has a good knowledge of organ collection and transplantation, as well as mini-invasive surgery. He is acquainted with the diagnosis and treatment of acute limb ischemia, diabetic foot and the treatment of chronic wounds.	
Class syllabus: Physical examination of locomotional aparat. Bone fractures - classification, principles of diagnostics and the treatment. Healing of fractures, types of healing. Complications in healing of fractures in conservative and after surgical treatment. Injuries of tendons and joints. Burns – pathology and pathophysiology of thermal injury. Classification, first aid. Treatment of burn shock. Local treatment. Inhalation injury. Surgical complications - local, systemic. Hypothermia and frostbites. Bite and sting. Drowning. Electric shock. Crush and blast syndrome. Polytrauma. Diagnostic and therapeutic procedures, treatment priorities. Injury of the chest and intrathoracic organs. Injury of intraabdominal organs and retroperitoneum. Specificities of pediatric traumatology. New technologies in surgery. Miniinvasive surgery. Videopresentation of surgery Transplantations and the donor's programme. Acute and chronic ischemic syndrome of lower extremity. Surgical aspects of diabetes mellitus. Diabetic foot.	

<p>Surgical venous and lymphatic disorders. Thromboembolic disease, pulmonary embolism. Anticoagulant and thrombolytic treatment.</p> <p>Treatment of chronic wounds.</p> <p>Polymorbidity. Surgical problems of elderly age.</p>																				
<p>Recommended literature:</p> <p>Fischer J. et al.: Fischer's Mastery of Surgery, seventh edition, 2018, Volume 1,2</p> <p>Sabiston, D.C.: Textbook of Surgery 21st edition. The biological Basic of Modern Surgical Practice. Philadelphia: W.B. Saunders Comp. 2021, 2176 pp.</p> <p>Liechty, D., Soper, R.T.: Fundamental of Surgery. Philadelphia: C.V.Mosby Comp., 1989, 646 pp.</p> <p>Way, L.W.: Current Surgical Diagnosis and Treatment. New York: Lange Medical Books, 2006. 1453 pp.</p> <p>Skinner, H.B.: Current Diagnosis and Treatment in Orthopedics. Norwalk: Appleton and Lange, 1995. 645 pp.</p> <p>Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages.</p> <p>Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.</p> <p>Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.</p>																				
<p>Languages necessary to complete the course:</p> <p>english language</p>																				
<p>Notes:</p>																				
<p>Past grade distribution</p> <p>Total number of evaluated students: 189</p> <table border="1"> <thead> <tr> <th>A</th><th>ABS0</th><th>B</th><th>C</th><th>D</th><th>E</th><th>FX</th></tr> </thead> <tbody> <tr> <td>29,63</td><td>0,0</td><td>22,22</td><td>21,16</td><td>10,05</td><td>11,64</td><td>5,29</td></tr> </tbody> </table>							A	ABS0	B	C	D	E	FX	29,63	0,0	22,22	21,16	10,05	11,64	5,29
A	ABS0	B	C	D	E	FX														
29,63	0,0	22,22	21,16	10,05	11,64	5,29														
<p>Lecturers: doc. MUDr. Juraj Miklušica, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Adam Švec, PhD., MUDr. Šimon Číčel, MUDr. Miloslav Mišánik, MUDr. Martin Pribula, MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., MUDr. Marek Malík, PhD., MUDr. Lukáš Spevák</p>																				
<p>Last change: 06.04.2022</p>																				
<p>Approved by:</p>																				

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-589/19	Course title: Tropical Medicine
Educational activities: Type of activities: practicals / lecture Number of hours: per week: 1 / 1 per level/semester: 14 / 14 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ÚVZ/J-S-VL-617/19 - Public Health (1)	
Recommended prerequisites: Public Health 1	
Course requirements: Evaluation of the course <ul style="list-style-type: none"> • Active attendance at the practicals: 3 points for each session (max. 24 points) • Compilation of health-travel characteristics of a country of student's choice situated in Africa, Asia or Latin America (max. 38 points) until end of the 7th week of the semester The characteristics in extend of 1-2 pages should contain items as follows: <ul style="list-style-type: none"> o general characteristics of the country (climate, cultural, economic and political characteristics) o specific health-related risks o recommended and required vaccinations o malaria (risk, possibly areas under risk and seasons, effective chemoprophylaxis) o other health-related risks <ul style="list-style-type: none"> • Written test: 19 questions – 2 points each (max. 38 points) Final evaluation (max. 100 points): Achieved points Evaluation 100 – 91 A (excellent - 1) 90 – 81 B (very good – 1.5) 80 – 73 C (good - 2) 72 – 66 D (satisfactory – 2.5) 65 – 60 E (sufficient - 3) 59 and less Fx (fail - 4) For successful completion of the course, at least 60 points in final evaluation are needed. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student understands of tropical medicine, specific features of epidemiology and management of communicable and non-communicable diseases in conditions of tropical and subtropical zones, health aspects of travelling	

Class syllabus:

Definitions of terms and classification

Specific features of epidemiology and management of communicable and non-communicable diseases in tropical and subtropical zones

Intestinal infections in the tropics and subtropics

Respiratory infections (airborne infections) in the tropics and subtropics

Skin and external mucosae diseases in the tropics and subtropics

Blood infections in the tropics and subtropics

The most important parasitic diseases and tropic and subtropical zones

Health disorders caused by heat and sun radiation

Nutrition associated diseases in developing countries

Essentials of travel medicine – vaccination of travellers, recommendations and counselling, topical information resources, international regulations (International Health Regulations - IHR).

Recommended literature:

OBLIGATORY LITERATURE

<https://moodle.uniba.sk/>

CDC. Traveller's health. <https://wwwnc.cdc.gov/travel/>

WHO Travel Advice: <https://www.who.int/travel-advice>

RECOMMENDED LITERATURE

WHO Neglected tropical diseases: <https://www.who.int/health-topics/neglected-tropical->

Languages necessary to complete the course:

english

Notes:**Past grade distribution**

Total number of evaluated students: 5

A	ABS0	B	C	D	E	FX
100,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Tibor Baška, PhD.

Last change: 06.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024						
University: Comenius University Bratislava						
Faculty: Jessenius Faculty of Medicine in Martin						
Course ID: JLF.UK/J-S-VL-578/22		Course title: Urology				
Educational activities: Type of activities: practicals Number of hours: per week: 4,5 per level/semester: 63 Form of the course: on-site learning						
Number of credits: 3						
Recommended semester: 9.						
Educational level: I.II.						
Prerequisites: JLF.ChKTC/J-S-VL-523/22 - Surgery (1)						
Course requirements: Test						
Learning outcomes: Basic knowledge of urology: embryology, anatomy, physiology, pathology, pathophysiology, etiology, pathogenesis, diagnosis and treatment of urogenital diseases						
Class syllabus: Examination of urological patient, symptoms of urogenital disorders, urine sampling and analysis Instrumentation in urology, acute urinary retention, basic andrology (infertility, erectile dysfunction, sperm bank) Radiological, ultrasonographic and radionuclide examination in urology. Basic urodynamic investigation. Differential diagnosis of hematuria Differential diagnosis of urological disorders. Emergency in urology. Treatment of urinary tract infection. Cadaverous program, hemodialysis and kidney transplantation						
Recommended literature:						
Languages necessary to complete the course: English Language						
Notes:						
Past grade distribution Total number of evaluated students: 208						
A	ABS0	B	C	D	E	FX
31,25	0,0	32,69	20,67	9,62	5,77	0,0
Lecturers: doc. MUDr. Ján Ľupták, PhD., MUDr. Róbert Dušenka, PhD., MBA, prof. MUDr. Ján Kliment, CSc., prof. MUDr. Ján Švihra, PhD., MUDr. Ján Švihra, PhD., MUDr. Kamil Javorka, PhD.						
Last change: 21.03.2022						
Approved by:						

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-610/19	Course title: Vaccinology
Educational activities: Type of activities: practicals / lecture Number of hours: per week: ,5 / ,5 per level/semester: 7 / 7 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites: JLF.ÚVZ/J-S-VL-617/19 - Public Health (1)	
Recommended prerequisites: Public Health 1	
Course requirements: EVALUATION OF THE COURSE Requirements to successfully complete the course: To complete the course, three basic conditions should be fulfilled: 1. active attendance in seminars: compulsory attendance in seminars – in case of absence, the student should substitute the missing seminars through consultation with the respective teacher 7x4 (28 points) 2. well arranged preparation of the 1st theme in a form of an ppt presentation (max. 36 points) until mid of the semester 3. well arranged preparation of the 2nd theme in a form of an ppt presentation (max. 36 points) until end of the semester Final evaluation (max. 100 points): Achieved points Evaluation 100 – 91 A (excellent - 1) 90 – 81 B (very good – 1.5) 80 – 73 C (good - 2) 72 – 66 D (satisfactory – 2.5) 65 – 60 E (sufficient - 3) 59 and less Fx (fail - 4) At least 60 points in total evaluation are needed to compete the course. Scale of assessment (preliminary/final): 0/100	
Learning outcomes: After completion of the subject the student understands basic principles of prevention by vaccination, the effect of vaccines in individuals on herd immunity, public health significance of vaccination strategies and their implication in the society.	

Class syllabus:

Public Health importance of vaccination in Slovakia. Legislation related to vaccination in Slovakia, the National Immunization Program. Composition, types and kinds of vaccines. The principles of appropriate immunization and appropriate vaccination techniques. Management of vaccination. Management of vaccines. Post vaccination reactions and contraindications. Vaccination of specific population groups. Current trends in vaccinology. Evaluation of immunization strategies, monitoring and control of vaccination.

Recommended literature:**OBLIGATORY LITERATURE**

PLOTKIN, S.A et al. Plotkin's Vaccines. 7th Ed. 2018, Elsevier, .1690 pp. ISBN: 978-0-323-35761-6 (<https://www.sciencedirect.com/book/9780323357616/plotkins-vaccines>)

World Health Organization www.who.int

<http://www.ecdc.europa.eu>

RECOMMENDED LITERATURE

HUDEČKOVÁ, H., ŠVIHROVÁ, V.: Očkovanie. Martin, Osveta, 2013, 221 s. ISBN 978-80-80633-96-7

CDC. Epidemiology and Prevention of Vaccine-Preventable Diseases. The Pink Book.

<https://www.cdc.gov/vaccines/pubs/pinkbook/index.html>

Languages necessary to complete the course:

english

Notes:**Past grade distribution**

Total number of evaluated students: 0

A	ABS0	B	C	D	E	FX
0,0	0,0	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Henrieta Hudečková, PhD., MPH

Last change: 06.09.2024

Approved by:

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚTV/J-S-VL-TV5/22	Course title: Winter Practice in Physical Education
Educational activities: Type of activities: practicals Number of hours: per week: 4 per level/semester: 56 Form of the course: on-site learning	
Number of credits: 1	
Recommended semester: 1.	
Educational level: I.II.	
Prerequisites:	
Course requirements: presence	
Learning outcomes: The graduate of this subject personify his attitude to the necessity of healthy life style. He will understand the health sense of active movement for the human health. He will bring into his attitude and conviction the role of active movement, sport as a effective prevention against civilization illnesses of today as a part of therapy to improve the state of health of the whole population. He will become own surely about the importance of sport and motion activities by harmonic young human character progress.	
Class syllabus:	
Recommended literature: Sjezdové lyžování Příbramský M., Maršík J	
Languages necessary to complete the course:	
Notes:	
Past grade distribution Total number of evaluated students: 8	
ABS0	M
100,0	0,0
Lecturers: PaedDr. Jozef Šimeček	
Last change: 08.03.2022	
Approved by:	