Course descriptions

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COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-087/19	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, Ľ., 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:
slovak

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: doc. MUDr. Ľubica Jakušová, PhD., MUDr. Otília Petrovičová, PhD., MUDr. Marek Pršo, PhD., doc. MUDr. Miroslava Brndiarová, PhD., MUDr. Stanislava Suroviaková, PhD., doc. MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., doc. MUDr. Jarmila Vojtková, PhD., MUDr. Vladimír Zoľák, PhD., doc. MUDr. Zuzana Havlíčeková, PhD., prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA, MUDr. Ján Mikler, PhD., MPH, MUDr. Filip Olekšák, PhD., MUDr. Dušana Genšor, MPH

Last change: 29.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KAIM/J-S-VL-085/19	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 completition of final test.

Learning outcomes:
With completition 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:
Dobríková-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 hospicovástarostlivost. 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 chronickéj bolesti. Mozaika hospicovej starostlivosti, Hospice o.z., Martin 2007, ISBN 978-80-969736-2-0
Kulichová M.: Bolesť – definícia, rozdelenie, patofyziologia, klasifikácia a diagnostika. Lek.Obz., 57, 2008, č.1, s. 7 -11.
Kulichová M.: Bolesť u onkologického pacienta – diferenciálno-diagnostické spracovanie, Onkológia, 5/2007, r.2. s. 287-291.
Kulichová M.: Bolesť. 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:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 295

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

Lecturers: MUDr. Zuzana Čiljaková, MUDr. Mgr. Monika Štefanová, PhD., MPH, MUDr. Jacgueline Alvarez Ordaz, MUDr. Michaela Mikolková

Last change: 08.09.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚA/J-S-VL-001/25	Anatomy (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 6 / 4 **per level/semester:** 84 / 56
Form of the course: on-site learning

Number of credits: 9

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
Requirements • 100% attendance at practical and dissection sessions • Successful completion of written credit tests and oral examinations – the student must achieve at least 60% success in each written credit test and at least a grade E in the oral examination. Written Tests: 1. Axial skeleton, general osteology, general arthrology (10% weight in the final assessment) 2. Skeleton, joints, and muscles of the upper and lower limbs, general myology (15% weight in the final assessment) 3. Vessels and nerves of the upper and lower limbs (10% weight in the final assessment) 4. Cardiovascular and respiratory systems (20% weight in the final assessment) 5. Gastrointestinal system (20% weight in the final assessment) Oral Examination: 1. Cranial spaces and vertebrae identification (10% weight in the final assessment) 2. Skeleton, muscles, vessels, and nerves of the upper and lower limbs; topographical spaces of the upper and lower limbs (15% weight in the final assessment) Final Grading for Anatomy 1 A: 100 – 91% B: 90 – 81% C: 80 – 73% D: 72 – 66% E: 65 – 60% Fx: less than 60%
Scale of assessment (preliminary/final): Final study result evaluation is counted from the scores of the midsemester tests and oral examinations. 100/0

Learning outcomes:
A graduate of anatomy has knowledge of the human body to the extent required in undergraduate studies. They understand the principles of the structure of the human body, its parts, and organs in sufficient detail to ensure that the acquired knowledge is lasting, providing a foundation for understanding physiological and pathological processes and changes, and later serving as a basis for studying clinical disciplines.

Class syllabus:
Lectures • Introduction to the study of anatomy • General osteology • General arthrology • Thoracic joints (Juncturae thoracis) • Vertebral column joints (Juncturae columnae vertebralis) • Craniovertebral joints (Articulationes craniovertebrales) • Cranial joints (Juncturae cranii) • Skull of the newborn • General myology • General anatomy of the vascular and peripheral nervous systems • Vessels of the upper limb (Vasa membri superioris) • Brachial plexus (Plexus brachialis) • Vessels of the lower limb (Vasa membri inferioris) • Lumbar and sacral plexus (Plexus lumbalis et sacralis) • Lymphatic vessels and nodes of the lower limb • Clinical anatomy of the upper and

lower limbs • Topographical anatomy of the limbs • Heart (Cor) • Major, minor, and fetal circulatory systems (Circuitus sanguinis major, minor et foetalis) • Respiratory system (Systema respiratorium) • Vessels of the abdomen Practicals: • Anatomical planes and directions, Ribs and sternum, Vertebral column • Skull, Spaces of the skull • Skeleton of the upper and lower limb • Joints of the upper and lower limb • Muscles of the upper and lower limb • Topographic dissection of the limbs • Cardiovascular system (Systema cardiovasculare) • Respiratory system (Systema respiratorium) • Gastrointestinal system (Systema gastrointestinale)

Recommended literature:

povinná literatúra:

x Čihák, R. Anatomie 1. Praha: Grada, 2011. 534 s. ISBN 978-80-2473-817-8
x Čihák, R. Anatomie 2. Praha: Avicenum, 2013. 512 s. ISBN 978-80-2474-788-0
x Čihák, R. Anatomie 3. Praha: Grada, 2016. 722s. ISBN 978-80-2475-636-3
x Mráz, P. a kol. Anatómia ľudského tela 1. Bratislava: SAP, 2021. 510 s. ISBN 978-80-8960-789-1
x Mráz, P. a kol. Anatómia ľudského tela 2. Bratislava: SAP, 2021. 496 s. ISBN 978-80-8960-792-1
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

odporúčaná literatúra:

Acland´s Video Atlas of Human Anatomy. Wolters Kluwer Health, 2023. Available from WWW: https://aclandanatomy.com/
Gilroy, A. M. et al. Atlas of Anatomy. Thieme Medical Publishers 2020. 778 s. ISBN 978-16-8420-203-4
Netter, F.H. Netterov anatomický atlas človeka. Brno: CPress, 2016. 640 s. ISBN 978-80-2641-184-0
Mráz, P. a kol. Pitevné cvičenia. Martin: Osveta, 1995. 199 s. ISBN 80-2170-550-7
Rohen, J.W., Yokochi, Ch. et Lutjen-Drecoll, E. Anatomie člověka. Praha: Triton, 2022. 608 s. ISBN 978-80-7553-964-9

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 149

A	ABS0	B	C	D	E	FX
33,56	0,67	42,95	16,11	2,68	1,34	2,68

Lecturers: doc. MUDr. Desanka Výbohová, PhD., MUDr. Gabriela Hešková, PhD., MVDr. Sandra Hurta Csizmár, PhD., MVDr. Dagmar Kalenská, PhD., MUDr. Lenka Kunertová, MUDr. Katarína Lešková, PhD., RNDr. Alena Mazuráková, PhD., doc. MUDr. Yvetta Mellová, CSc.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚA/J-S-VL-002/24	**Course title:** Anatomy (2)
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 6 / 4 **per level/semester:** 84 / 56 **Form of the course:** on-site learning	
Number of credits: 11	
Recommended semester: 2.	
Educational level: I.II.	
Prerequisites: JLF.ÚA/J-S-VL-001/25 - Anatomy (1)	
Recommended prerequisites: Anatómia 1	
Course requirements: 1.100% attendance at the practicals and dissections 2. successful completion of 4 written tests (test 1 - alimentary system, test 2 - urogenital system, test 3 - opening dissection test, test 4 - nervous system), set of minitests and oral dissection examination – the student must achieve a minimum = 60% in each written test and E in each oral test (examination) to pass 3. successful passing of the final exam consisting of 3 parts: written test, oral practical exam, oral theoretical exam 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: Urogenital system. Vessels of the thorax. Vessels of the abdomen and pelvis. Vessels of the head and neck.Cranial nerves. Cervical plexus. Topographic anatomy of the head and neck.Cranial nerves. Cervical plexus. Autonomic nervous system. Topographic anatomy of the head and neck. Topographic anatomy of the thorax and abdomen. Dissection of the head, neck, thorax , abdomen and pelvis. Nervous system – general neuroanatomical terms. Spinal cord. Brainstem – medulla oblongata, pons Varoli, mesencephalon.Telencephalon – lobi et gyri. Cortical centres. Nuclei of the cranial nerves. Cerebellum. Meninges. Dural venous sinuses. Diencephalon. Blood supply of the CNS . Basal nuclei. White matter of the hemispheres. Ventricles of the CNS. Sensory nerve tracts – interoceptive, proprioceptive, exteroceptive sensibilities . Olfactory and gustatory pathways.	

Pyramidal and extrapyramidal motor systems. Bulbus oculi. Visual pathway. Pupillary reflex pathway. Accessory organs of the eyeball. External and middle ear. Internal ear, auditory and vestibular pathway. Limbic system.

Recommended literature:

povinná literatúra:
x Čihák, R. Anatomie 1. Praha: Grada, 2011. 534 s. ISBN 978-80-2473-817-8
x Čihák, R. Anatomie 2. Praha: Avicenum, 2013. 512 s. ISBN 978-80-2474-788-0
x Čihák, R. Anatomie 3. Praha: Grada, 2016. 722s. ISBN 978-80-2475-636-3
x Mráz, P. a kol. Anatómia ľudského tela 1. Bratislava: SAP, 2021. 510 s. ISBN 978-80-8960-789-1
x Mráz, P. a kol. Anatómia ľudského tela 2. Bratislava: SAP, 2021. 496 s. ISBN 978-80-8960-792-1
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
odporúčaná literatúra:
Acland´s Video Atlas of Human Anatomy. Wolters Kluwer Health, 2023. Available from WWW: https://aclandanatomy.com/
Gilroy, A. M. et al. Atlas of Anatomy. Thieme Medical Publishers 2020. 778 s. ISBN 978-16-8420-203-4
Netter, F.H. Netterov anatomický atlas človeka. Brno: CPress, 2016. 640 s. ISBN 978-80-2641-184-0
Mráz, P. a kol. Pitevné cvičenia. Martin: Osveta, 1995. 199 s. ISBN 80-2170-550-7
Rohen, J.W., Yokochi, Ch. et Lutjen-Drecoll, E. Anatomie člověka. Praha: Triton, 2022. 608 s. ISBN 978-80-7553-964-9

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 160

A	ABS0	B	C	D	E	FX
34,38	0,0	20,63	21,88	13,75	4,38	5,0

Lecturers: doc. MUDr. Desanka Výbohová, PhD., MUDr. Gabriela Hešková, PhD., doc. MUDr. Yvetta Mellová, CSc., MVDr. Sandra Hurta Csizmár, PhD., MVDr. Dagmar Kalenská, PhD., MUDr. Lenka Kunertová, MUDr. Katarína Lešková, PhD., RNDr. Alena Mazuráková, PhD.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚA/J-S-VL-003/17	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: 9

Recommended semester: 3.

Educational level: I.II.

Prerequisites: JLF.ÚA/J-S-VL-001/17 - Anatomy (1) and JLF.ÚA/J-S-VL-002/15 - Anatomy (2)

Course requirements:
100% participation in practicals, 100% participation in dissection, at least 60% success rate on written midsemester tests; 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 Čihák, R. Anatomie 1. Praha: Grada, 2011. 534 s. ISBN 978-80-2473-817-8
x Čihák, R. Anatomie 2. Praha: Avicenum, 2013. 512 s. ISBN 978-80-2474-788-0
x Čihák, R. Anatomie 3. Praha: Grada, 2016. 722s. ISBN 978-80-2475-636-3
x Mráz, P. a kol. Anatómia ľudského tela 1. Bratislava: SAP, 2021. 510 s. ISBN 978-80-8960-789-1
x Mráz, P. a kol. Anatómia ľudského tela 2. Bratislava: SAP, 2021. 496 s. ISBN 978-80-8960-792-1

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
odporúčaná literatúra:
Acland´s Video Atlas of Human Anatomy. Wolters Kluwer Health, 2023. Available from WWW: https://aclandanatomy.com/
Gilroy, A. M. et al. Atlas of Anatomy. Thieme Medical Publishers 2020. 778 s. ISBN 978-16-8420-203-4
Netter, F.H. Netterov anatomický atlas človeka. Brno: CPress, 2016. 640 s. ISBN 978-80-2641-184-0
Mráz, P. a kol. Pitevné cvičenia. Martin: Osveta, 1995. 199 s. ISBN 80-2170-550-7
Rohen, J.W., Yokochi, Ch. et Lutjen-Drecoll, E. Anatomie člověka. Praha: Triton, 2022. 608 s. ISBN 978-80-7553-964-9

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 1084

A	ABS0	B	C	D	E	FX
20,48	0,0	19,74	25,83	16,24	11,9	5,81

Lecturers: doc. MUDr. Desanka Výbohová, PhD., doc. MUDr. Yvetta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MVDr. Sandra Hurta Csizmár, PhD., MVDr. Dagmar Kalenská, PhD., MUDr. Lenka Kunertová, RNDr. Alena Mazuráková, PhD., MUDr. Katarína Lešková, PhD.

Last change: 15.09.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KAIM/J-S-VL-058/25	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: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites: JLF.KAIM/J-S-VL-106/19 - Emergency Medicine and JLF.ÚFa/J-S-VL-030/21 - Pharmacology (2)

Course requirements:
Attendance of 100 % practice workouts and successful completiton of final examination.

Learning outcomes:
With completition 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, addmision of patients to intensive care unit, single and multiple organ failure, monitoring in intensive care, mechanical ventilation, extracorporal life support systems, paliative 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: 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. Beata Drobná Sániová, PhD., MUDr. Zuzana Biringerová, PhD., MUDr. Zuzana Benić, MUDr. Zuzana Čiljaková, MUDr. Tomáš Fecko, MUDr. Richard Koyš, PhD., MUDr. Andrea Ráheľ Kubisová, MUDr. Jana Sendreyová, MUDr. Alena Škutchanová, MUDr. Michal Venglarčík, PhD.

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-007/19	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 student is supposed to be well oriented in Latin medical terminology, since knowledge of certain components of the language structure of Latin as well as Greek is a prerequisite for adequate and economic mastery of almost all medical disciplines. On the basis of this subject the student acquires terminological competence, i. e. the ability to use Latin medical terminology accurately and correctly. After finishing this course, a medical student should meet the following criteria:
a) mastering the phonetic and graphic aspects of Latin; b) knowledge of selected aspects of the linguistic morphological system related to selected substantial and verbal forms; c) knowledge of the lexical plan of the language; d) mastering the elementary syntactic structure of medical terms (multi-word terms, close and loose attribute, word order, Latin-form prescriptions); e) control of the word-formation system of one-word terms (affixation, prefix polysemy, polyfunctional suffixes) and relations of word-forming elements (synonyms, antonyms, homonyms).

Class syllabus:
1. Historical and linguistic introduction into medical Latin
A brief overview of the history of medical terminology. History of anatomical nomenclature (BNA, JNA, PNA). PNA principles and its current form (TA). Introduction to Latin Grammar # pronunciation, accent. Declension of nouns, overview of declensions. Structure of terms. Reading terms with correct pronunciation and estimating their meaning.
2. 1st Latin and Greek declension
Nouns and adjectives of the 1st Latin Declension. Greek nouns of the 1st declension. Connection of a noun with an adjective. Word-forming characteristics of one-word terms, suffix -ūra. Ad illustrandum: terms "fossa", "fovea" in anatomical nomenclature, meanings of the terms "sutura" and "raphe".
3. 2nd Latin and Greek declension

Nouns of the 2nd Latin declension - masculines, neuters, exceptions in gender - feminines. The rule of neuters of all declensions. Greek nouns of the second declension - masculines, neuters. Adjectives of the 2nd declension. Adjective word-forming suffixes # suffix -ōsus, a, um. Ad illustrandum: "humerus" and related terms; substantivized adjectives of the first and second declension.
4. 3rd Latin consonant declension
Characteristic features of the 3rd declension. Consonant declension – masculines, feminines. Consonant declension – neuters. Medical terms of the third declension with -us ending.
5. 3rd Latin consonant declension
Nouns of the 3rd declension in connection with adjectives of the first and second declension; "latus" expressions in clinical diagnoses; substantive word-forming suffixes – suffix -or and io. Eponyms in medical terminology.
6. 3rd Latin vowel declension
Vowel declension (masculines, feminines, neuters). Definition of vowel declension nouns. Special declension of the "febris" type. Differences between "corpus" and "rēte" patterns. Latin diminutives. Ad illustrandum: openings in anatomical nomenclature; types of fracture dislocations
7. TEST I
8. 4th Latin declension
Characteristic features of the 4th declension – masculines, neuters, exceptions in gender – feminines. Adjective suffix -oīdeus, a, um. Ad illustrandum: Latin equivalents of the terms "hollow" and "channel".
9. 5th Latin declension
Nouns of the 5th Latin declension. Nouns of the 4th and 5th declension in connection with adjectives of the 1st and 2nd declension. Overview of Latin declensions. Specifics of the term "speciēs".
10. Adjectives of the 3rd declension
Latin adjectives of the third declension - Adjectives of One Termination, Adjectives of Two Terminations, Adjectives of Three Terminations. Meaning of adjective suffixes -ālis,e / āris,e.
11. Adjectives of the 3rd declension
Declension of third declension adjectives. Greek adjectives of the third declension. Greek adjectives with suffix -oidēs and Latin adjectives with suffix -oīdeus, a, um. Synonymous names in Terminologia Anatomica.
12. Comparison of adjectives
Comparative and superlative forms of adjectives; declension of comparative and superlative forms of adjectives. Types of adjective comparison: regular, irregular and incomplete adjective comparison.
13. Comparison of adjectives
Specifics of adjective comparison in anatomical and clinical medical terminology. The order of adjectives in Latin. Exceptions to the use of the major - minor comparative. Ad illustrandum: the term "labium" and its meanings.
14. TEST II

Recommended literature:
Bujalková, M., Šimon, F.: TERMINOLOGIA MEDICA LATINA. Učebnica lekárskej terminológie pre študentov medicíny. Martin: Vydavateľstvo Osveta 2019. 236 s.
3. doplnené a upravené vydanie. ISBN 978-80-8063-480-3

Languages necessary to complete the course:
Slovak and Latin language

Notes:

Past grade distribution
Total number of evaluated students: 939

A	ABS0	B	C	D	E	FX
55,91	2,13	27,9	9,48	3,41	1,06	0,11

Lecturers: Mgr. Miroslav Čovan, PhD., Mgr. Samuel Javornický, PhD., Mgr. Desana Kiselová, doc. Mgr. Erika Juríková, PhD.

Last change: 17.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-129/19	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-007/19 - 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 student is supposed to be well oriented in Latin medical terminology, since knowledge of certain components of the language structure of Latin as well as Greek is a prerequisite for adequate and economic mastery of almost all medical disciplines. On the basis of this subject the student acquires terminological competence, i. e. the ability to use Latin medical terminology accurately and correctly. After finishing this course, a medical student should meet the following criteria:
a) mastering the phonetic and graphic aspects of Latin; b) knowledge of selected aspects of the linguistic morphological system related to selected substantial and verbal forms; c) knowledge of the lexical plan of the language; d) mastering the elementary syntactic structure of medical terms (multi-word terms, close and loose attribute, word order, Latin-form prescriptions); e) control of the word-formation system of one-word terms (affixation, prefix polysemy, polyfunctional suffixes) and relations of word-forming elements (synonyms, antonyms, homonyms).

Class syllabus:
1. 3rd Greek declension
The third Greek declension - characteristic features. Consonant declension # masculines, feminines, neuters. Vowel declension # feminines. Clinical terms formed by suffixes - ītis, -ōma, -ōsis.
2. 3rd Greek declension
Some roots of Greek words. The adjective suffix -icus, a, um, and its occurrence especially in words of Greek origin. Ad illustrandum: exceptions to the formation of terms denoting inflammation; the term "cardia" and its meanings.
3. Numerals
Basic, ordinal, multiple numerals, decimal point metric prefixes. Declension of numerals. Combination of numerals with a noun - expression of the counted object. Verbs in medical terminology - infinitive, imperative mood, subjunctive mood.
4. Latin medical prescription

Medical prescription – grammatical structure. Extemporaneous prescription (magistraliter), non-extemporaneous prescription (for brand-name drugs). Abbreviations used in medical prescriptions. Medical prescription examples, some roots of Greek words. Ad illustrandum: cranial nerves – nervī crāniālēs.
5. Prefixes
Basic ways of word formation. Latin and Greek prefixes: a) prefixes related to direction, place, time b) prefixes denoting quality and negation.
6. Prefixes
Some roots of Greek words. Practicing the formation of terms with word-forming prefixes. Ad illustrandum: midwifery terms related to the time of the birth; regions of abdomen.
7. TEST III
8. Suffixes
Noun suffixes, adjective suffixes; slovak forms of Greek and Latin suffixes. Ad illustrandum: terms derived from the words "corōna" and "koróné"; adjectives derived from the word "spīna".
9. Suffixes. Adverbs
The most common adverbs in medical terminology. Some stems of Greek words. Practicing the formation of terms with word-forming suffixes.
10. Compounds
The most common components of compound words. Combining vowels. Position and frequency of compound words. Compound word components overview: a) human body; b) body fluids, secretions, substances; c) quality, quantity
11. Compounds
Compound word components overview: d) colors; e) state, process, disease; f) surgical or diagnostic procedure. Determining the principle of formation of complex words. Ad illustrandum: mūsculī collī
12. Revision
Muscle names. Repetition in exercises. Ad illustrandum: medical terminology as a result of a historical process: carpal and tarsal bones; signs of inflammation, avitaminosis. Latin titles.
13. The Hippocratic Oath. Memorabilia. Examples of pathological-anatomical diagnoses. Abbreviations most frequently used in medical terminology.
14. TEST IV

Recommended literature:
Bujalková, M., Šimon, F.: TERMINOLOGIA MEDICA LATINA. Učebnica lekárskej terminológie pre študentov medicíny. Martin: Vydavateľstvo Osveta 2019. 236 s. 3. doplnené a upravené vydanie. ISBN 978-80-8063-480-3

Languages necessary to complete the course:
Slovak and Latin language

Notes:

Past grade distribution
Total number of evaluated students: 792

A	ABS0	B	C	D	E	FX
62,25	0,0	28,16	7,32	2,02	0,25	0,0

Lecturers: Mgr. Miroslav Čovan, PhD., Mgr. Samuel Javornický, PhD., Mgr. Desana Kiselová

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.CPMV/J-S-VL-133/19	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: 9.

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 evaluatioon

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.
Blooms taxonomy, ILOs, Constructive alingnment
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:

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.

Last change: 06.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.CPMV/J-S-VL-130/25	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: 2

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
not applicable

Course requirements:
100% participation in practical exercises is a prerequisite for passing and assessment of the course. The criterion for successful completion of the course is a test exam and practical mastery of basic CPR
and improvised first aid for the most common injuries and sudden illnesses, with a minimum pass mark: 60%.
Grade: A: 95%-100%, B: 88%-94%, C: 77%-87%, D: 66%-76%, E: 60%-65%,Fx: 60% and below.
The assessment consists of a test score and a percentage of CPR passes. It will take place at the end of the semester in the last scheduled practicals. The test will be administered online to all students at the same time in a Moodle environment and will consist of 30 computer-generated questions from a set of existing questions that will be covered in lectures and practicals. To pass the test, students must answer at least 65% of the questions correctly.
Scale of assessment (preliminary/final): final evaluation

Learning outcomes:
Aims and Objectives: Intended learning outcomes
The student reproduces and explains the theory needed to deal with acute conditions in BLS.
The student demonstrates the technique of approaching an unconscious person.
The student opens the airways and assesses breathing in an unconscious patient.
The student demonstrates the CPR technique for adults.
The student demonstrates the technique of approaching an unconscious child.
The student opens the airways and assesses breathing in an unconscious child.
The student demonstrates the CPR technique for a child.
The student provides first aid for airway obstruction.
The student explains the management of massive bleeding.
The student demonstrates how to apply pressure to the wound to stop bleeding.
The student demonstrates the application of a tourniquet.
The student explains and demonstrates the Rautek maneuver.

The student can turn an unconscious person from the abdomen to the back.
The student recognizes the symptoms of an allergic reaction and anaphylaxis and demonstrates how to use an autoinjector.
The student describes the signs of shock and explains the management of the patient
The student describes the symptoms of a stroke and explains the management of the patient
The student describes the symptoms of acute coronary syndrome and explains the management of the patient
The student summarizes the rules at the scene of a traffic accident and describes his/her safety measures at the scene

Class syllabus:
Syllabus/Indicative Content:
1. Unconsciousness. Basic life-saving procedures, ABCDE approach to the patient. Chain of survival
2. Fundamentals of the pathophysiology of cardiac arrest. BLS - Basic Life Support – resuscitation of an adult, AED. Shockable/non-shockable cardiac rhythms.
3. Approach to the unconscious child, CPR of the child - algorithm including resuscitation of the newborn. Airway obstruction, laryngitis, and epiglottitis in children
4. First aid for traumatic life-threatening conditions (head, chest, abdominal, spinal injuries, bleeding, shock, principles of first aid in car accidents)
5. First aid for non-traumatic life-threatening conditions (allergic reactions, anaphylaxis, stroke, convulsions, epilepsy, syncope, chest pain, drowning, electric shock, hanging, life-threatening conditions in diabetics)

Recommended literature:

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 149

A	ABS0	B	C	D	E	FX
82,55	0,67	16,11	0,67	0,0	0,0	0,0

Lecturers: prof. MUDr. Jana Plevková, PhD.

Last change: 06.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-CJ7/22	**Course title:** Basics of German Language (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: 3.	
Educational level: I.II.	
Prerequisites:	
Course requirements: 1 written test, 1 oral exam, minimum percentage to pass 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 the course is to provide students applying / admitted to an Erasmus exchange or internship with the basics of the German language needed to survive in a German-speaking country in everyday situations in contact with local people and to ignite interest in both the language and local history, and culture.	
Class syllabus: 1. Hallo! Sprechsituationen: die Kollegen begrüßen, sich verabschieden. Grammatik: Alphabet, Aussagesätze. Übungen. 2. Leute aus Deutschland. Sprechsituationen: sich vorstellen, Grammatik: W-Fragen, Verb-formen in Präsens, Fragewörter. Übungen. 3. – 4. Wie geht's? Sprechsituationen: Wie es jemandem geht sagen, was man trinken möchte. Telefonnummer und Adresse sagen, Grammatik: Ja/Nein Fragen, Verbformen im Präsens, Zahlen, Verbposition. Übungen. 5. – 6. Was kostet das? Sprechsituationen: Über Preise sprechen, Verkaufsgespräche führen, Gegenstände beschreiben, Kleinanzeigen verstehen, Grammatik: Zahlen bis 1 Million, Nomen und Artikel, bestimmter und unbestimmter Artikel, Personalpronomen. Übungen. 7. – 8. Wie spät ist es? Sprechsituationen: Uhrzeiten/Tageszeiten angeben, über den Tagesablauf sprechen, sich verabreden, Grammatik: trennbare Verben, Satzklammer bei trennbaren Verben, trennbare Verben, Zeitangaben im Satz.	

9. – 10. Was darf's sein? Sprechsituationen: Einkaufsdialoge verstehen, einen Einkaufszettel schreiben, Kochrezepte verstehen, Grammatik: Mengenangaben, Plural der Nomen, Akkusativformen, Verben mit Akkusativ.
11. – 12. Familienleben.
Sprechsituationen: über die Familie sprechen, das Datum sagen/ schreiben, Grammatik: Possessivartikel: mein-, dein-, sein-, ...
13. Wann bist du geboren? Sprechsituationen: über Geburtstage sprechen, über Vergangenes sprechen, Grammatik: Orrdinalzahlen und Datum, Präteritum von sein und haben
14. Examen

Recommended literature:
Christiane Lemcke, Lutz Rohrmann, Theo Scherling in Zusammenarbeit mit Margret Rodi, Susan Kaufmann: Berliner Platz 1 NEU, Deutsch im Alltag. Berlin: Langenscheidt/Klett, 2009. 256 s.

Languages necessary to complete the course:
German language

Notes:
To start the classes of Basics of German language, the minimum required number of attending students is 5.

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: Mgr. Anna Barnau, PhD., PhDr. Božena Džuganová, PhD.

Last change: 21.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-CJ8/22	**Course title:** Basics of German Language (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: 4.	
Educational level: I.II.	
Prerequisites: JLF.ÚCJ/J-S-VL-CJ7/22 - Basics of German Language (1)	
Course requirements: 1 written test, 1 oral exam, minimum percentage to pass 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 the course is to provide students applying / admitted to an Erasmus exchange or internship with the basics of the German language needed to survive in a German-speaking country in everyday situations in contact with local people and to ignite interest in both the language and local history, and culture.	
Class syllabus: 1. – 2. Willkommen in Berlin. Sprechsituationen: Ortsangaben machen, nach dem Weg fragen. Hinweise zum Weg geben, eine neue Arbeitsstelle antreten. Grammatik: Der Dativ im Satz, Dativformen, Imperativsatz, Verbformen, Imperativ. Übungen. 3. – 4. Zimmer, Küche, Bad. Sprechsituationen: Wohnungsanzeigen verstehen, über die Wohnungssuche sprechen, sich über eine Wohnung informieren, Wünsche und Möglichkeiten ausdrücken. Grammatik: Modalverben, Perfekt mit haben. Übungen. 5. – 6. Was ist passiert? Sprechsituationen: über Vergangenes sprechen einen Lebenslauf verstehen, über die eigene Person sprechen, persönliche Informationen erfragen Grammatik: Perfekt mit sein, Präpositionen vor, nach, seit mit Dativ. Übungen. 7. – 9. Ich arbeite bei... Sprechsituationen: über Arbeit und Beruf sprechen, berufliche Telefongespräche verstehen. Grammatik: Modalverb müssen, Ordinalzahlen. Übungen. 10. – 12. Gesund und fit. Sprechsituationen: Gespräche beim Arzt führen, über Fitness sprechen, Gesundheitsprobleme beschreiben. Grammatik: Modalverben. Ja/Nein-Fragen und Antworten, Imperativ. Übungen. 13. Schönes Wochenende!	

Sprechsituationen: eine Reise buchen, Fahrkarten kaufen. Grammatik: Personalpronomen: Nominativ und Akkusativ, Präpositionen vor, nach, seit mit Dativ und Akkusativ. Übungen.
14. Examen

Recommended literature:
Christiane Lemcke, Lutz Rohrmann, Theo Scherling in Zusammenarbeit mit Margret Rodi, Susan Kaufmann: Berliner Platz 1 NEU, Deutsch im Alltag. Berlin: Langenscheidt/Klett, 2009. 256 s.

Languages necessary to complete the course:
German language

Notes:
To start the classes of Basics of German language, the minimum required number of attending students is 5.

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: Mgr. Anna Barnau, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚKIaLG/J-S-VL-146/25	Basics of Medical Genetics and Dysmorphology

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:

Class syllabus:

Recommended literature:

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: MUDr. Adam Markocsy, PhD.

Last change:

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚO/J-S-VL-134/22	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: 4.

Educational level: I.II.

Prerequisites:

Course requirements:
The evaluation of the subject takes place in the form of a written test.
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.
The graduate of the course in the implementation of nursing procedures can:
- justify and argue the chosen procedure of a specific nursing performance,
- prepare the aids needed to perform,
- assess the patient and carry out the patient's mental and physical preparation for the procedure,
- perform hand hygiene (hand washing and hygienic / surgical disinfection)
- perform the procedure independently with respect to the performance standards and clinically recommended procedures, ethical principles, respect for the principles of asepsis,
- communicate with the patient during the procedure, instruct the patient after the procedure,
- record and document performance,
- provide care for aids after the procedure.

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 removing gloves (non-sterile, sterile).

Recommended literature:

Miertová, M., Žiaková, K., Ovšonková, A. a kol. Multimediálna vysokoškolská učebnica techník a zručností. [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, Ústav ošetrovateľstva, 2015. 672 s. Available on: http://eknihy.jfmed.uniba.sk/knihy/ostech/ ISBN 978-80-89544-88-2.
Hlinková, E., Nemcová, J. a kol. Multimediálna e-učebnica ošetrovateľské postupy v špeciálnej chirurgii [online]. Martin: UK v Bratislave, JLF v Martine, Ústav ošetrovateľstva, 2014. ISBN 978-80-89544-72-1. [cit. 2015-01-13] Available on: http://oschir.jfmed.uniba.sk
Krišková, A. a kol. Ošetrovateľské techniky. 2. preprac. a dopl. vyd. Martin : Osveta, 2006. 780 s. ISBN 80-8063-202-2.
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. Dostupné na: http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtls000257495.pdf.
MZ SR. Schválené nové a inovované štandardné klinické postupy v zdravotníctve. [on-line]. Ministerstvo zdravotníctva SR. 2020/21. Available on : https://www.health.gov.sk/?Standardne-Postupy-V-Zdravotnictve.

Languages necessary to complete the course:

Slovak language

Notes:

Past grade distribution

Total number of evaluated students: 365

A	ABS0	B	C	D	E	FX
38,36	0,82	46,03	10,41	4,38	0,0	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Anna Ovšonková, PhD., Mgr. Michaela Miertová, PhD., PhDr. Jana Nemcová, PhD., Mgr. Katarína Chromčíková, PhD.
Last change: 26.08.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ9/22	Basics of Spanish Language (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: 3.

Educational level: I.II.

Prerequisites:

Course requirements:
1 written test, 1 oral exam, minimum percentage to pass 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 the course is to provide students applying / admitted to an Erasmus exchange or internship with the basics of the Spanish language needed to survive in a Spanish-speaking country in everyday situations in contact with local people and to ignite interest in both the language and local history, and culture.

Class syllabus:
Spanish Language:
1. – 2. Lección octava
Pepe es una persona muy ordenada. Con el Sr. Balo en España. En el hotel. Gramática: Pronombres personales no independientes. Énfasis en el tema directo. Oraciones condicionales. Graduación de adjetivos. Verbo irregular saber. Verbos terminados en -cer. Ejercicios.
3. – 4. Lección novena
De visita. Con el Sr. Balo en España. En la oficina de correos. Gramática: Transición. Estar + enlace transitorio (tiempo de ejecución). Para + infinitivo. Pronombres posesivos separados. Verbos irregulares traer y poner. Ejercicios.
5. – 7. Lección décima
Paseando por la ciudad. Con el Sr. Balo en España. De compras. Gramática: Tiempo pasado simple. Enlaces antes + infinitivo, después de + infinitivo, al + infinitivo. Adverbios de clasificación. Representación de sustantivos por miembros. Palabras disminuidas. Ejercicios.
8. – 10. Lección once
¿Qué hizo Ud. ayer? Con el Sr. Balo en España. Telefoneando. Gramática: Tanto - tan. Expresar el pasado inmediato. El agua sustantivos. Ejercicios.
11. – 13. Lección doce

Las vacaciones en la casa de los abuelos. Con el Sr. Balo en España. Cenando en un restaurante. Gramática: Imperfecto. Verbos con el cambio o - ue - u. Verbos con cambio e - i. Verbo irregular ver. Superlativo. Ejercicios.
14. Prueba final

Recommended literature:
Lenghardtová, J. (1995) Španielčina. Bratislava: Slovenské pedagogické nakladateľstvo.
Gonzáles Núñes, M.T. – Loessin M.M.A. – Angrisano, F. (2006) Španělština za 24 dnů. Intenzivní kurz pro samouky. Brno: Computer Press, a.s.

Languages necessary to complete the course:
Spanish language

Notes:
To start the classes of Basics of Spanish Language 1, the minimum required number of attending students is 5.

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: PhDr. Božena Džuganová, PhD.

Last change: 21.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ10/22	Basics of Spanish Language (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: 4.

Educational level: I.II.

Prerequisites: JLF.ÚCJ/J-S-VL-CJ9/22 - Basics of Spanish Language (1)

Course requirements:
1 written test, 1 oral exam, minimum percentage to pass 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 the course is to provide students applying / admitted to an Erasmus exchange or internship with the basics of the Spanish language needed to survive in a Spanish-speaking country in everyday situations in contact with local people and to ignite interest in both the language and local history, and culture.

Class syllabus:
Spanish language:
1. – 2. Lección octava
Pepe es una persona muy ordenada. Con el Sr. Balo en España. En el hotel. Gramática: Pronombres personales no independientes. Énfasis en el tema directo. Oraciones condicionales. Graduación de adjetivos. Verbo irregular saber. Verbos terminados en -cer. Ejercicios.
3. – 4. Lección novena
De visita. Con el Sr. Balo en España. En la oficina de correos. Gramática: Transición. Estar + enlace transitorio (tiempo de ejecución). Para + infinitivo. Pronombres posesivos separados. Verbos irregulares traer y poner. Ejercicios.
5. – 7. Lección décima
Paseando por la ciudad. Con el Sr. Balo en España. De compras. Gramática: Tiempo pasado simple. Enlaces antes + infinitivo, después de + infinitivo, al + infinitivo. Adverbios de clasificación. Representación de sustantivos por miembros. Palabras disminuidas. Ejercicios.
8. – 10. Lección once
¿Qué hizo Ud. ayer? Con el Sr. Balo en España. Telefoneando. Gramática: Tanto - tan. Expresar el pasado inmediato. El agua sustantivos. Ejercicios.
11. – 13. Lección doce

Las vacaciones en la casa de los abuelos. Con el Sr. Balo en España. Cenando en un restaurante. Gramática: Imperfecto. Verbos con el cambio o - ue - u. Verbos con cambio e - i. Verbo irregular ver. Superlativo. Ejercicios.
14. Prueba final

Recommended literature:
Lenghardtová, J. (1995) Španielčina. Bratislava: Slovenské pedagogické nakladateľstvo.
Gonzáles Núňes, M.T. – Loessin M.M.A. – Angrisano, F. (2006) Španělština za 24 dnů. Intenzivní kurz pro samouky. Brno: Computer Press, a.s.

Languages necessary to complete the course:
Spanish language

Notes:
To start the classes of Basics of Spanish Language 1, the minimum required number of attending students is 5.

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: PhDr. Božena Džuganová, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.CPMV/J-S-VL-057/18	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:
Cognitive Domain (Knowledge) – Student
1. Lists the differences in the regulation of breathing during wakefulness, NREM, and REM sleep.
2. Describes the etiopathogenesis of obstructive and central sleep apnea.
3. Explains the mechanisms of Cheyne-Stokes respiration and its relationship to central apnea.
4. Differentiates types of sleep-related breathing disorders (OSA, CSA, mixed form).
5. Analyzes the impact of sleep-related breathing disorders on the cardiovascular, neurological, endocrine, hematological, and psychological systems.
6. Interprets basic parameters of polysomnography (AHI, desaturations, REM/NREM ratio, apnea/hypopnea index).
Psychomotor Domain (Skills) – Student
1. Performs basic setup of polysomnographic examination in pediatric and adult sleep laboratories.
2. Records and evaluates basic polysomnographic findings under the supervision of a qualified professional.
3. Identifies apneic episodes and desaturation events in PSG recordings.
4. Applies knowledge of breathing regulation in the interpretation of clinical symptoms of sleep disorders.
5. Collaborates with the team during patient examination in the sleep laboratory.
Affective Domain (Attitudes) – Student
1. Demonstrates interest in a multidisciplinary approach to patients with sleep disorders.
2. Respects the need for a sensitive approach to patients with chronic sleep disorders.
3. Reflects on the significance of sleep-related breathing disorders in the context of public health and quality of life.
4. Participates in discussions about treatment options (e.g., CPAP, BiPAP, behavioral interventions).

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:
Literature available at the web page of an educator

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 44

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., doc. MUDr. Peter Ďurdík, PhD., doc. MUDr. Robert Vyšehradský, PhD.

Last change: 06.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚKB/J-S-VL-056/18	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:
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 thrombophylias, 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:

Čierny D. Klinicko-biochemické vyšetrenia: základy, interpretácia vybraných nálezov. - 1. vyd. - Martin : JLF UK - Portál MEFANET, 2021. - 102 s. [online] ISBN 978-80-8187-107-8
Dobrota D. et al. Lekárska biochémia, Osveta Martin, 2016, 788 s., ISBN 978-80-8063-444-5
Racek J et al. Klinická biochemie, III. ed., Galén, 2021, 454 s., ISBN 9788074925450

Languages necessary to complete the course:
Slovak language

Notes:
teaching of this optional subject is performed in 4th year winter semester

Past grade distribution
Total number of evaluated students: 437

A	ABS0	B	C	D	E	FX
89,24	0,23	9,61	0,69	0,23	0,0	0,0

Lecturers: prof. MUDr. Dušan Dobrota, CSc., doc. MUDr. Daniel Čierny, PhD.

Last change: 24.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IKG/J-S-VL-132/19	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 finisse.
Scale of assessment (preliminary/final): Rating: A 90-100%, B 80-90%, C 70-80%, D60-70%, 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 classifield 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 acid secretion, and ph metry and densitometry of esophagus.
7. Visti and hepatologic stage at Transpanmtation Unit in Rooswelt Hospital, Banská Bystrica
8. Final consultation and Grading of classified credit.

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 72

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: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-082/19	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:

Bartůňková J. a kol.: Základy imunologie, 6. vydanie, 2017
Jeseňák M. a kol.: Vrodené poruchy imunity, 1. vydanie, 2014
Jeseňák M. a kol.: Očkovanie v špeciálnych situáciách, 2. vydanie, 2019
Jeseňák M. a kol.: Vademékum očkovania proti COVID-19, 1. vydanie, 2021
Jeseňák M. a kol.: Autoinflamácia v praxi - jasne, stručne, prehľadne, 1. vydanie, 2020.
Sobotkova M. et al. Hereditární angioedém a diferenciální diagnostika angioedému, 1. vydanie, 2021

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 229

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

Lecturers: prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA

Last change: 17.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMI/J-S-VL-107/19	**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-018/17 - Microbiology (2)

Course requirements:
- it is obligatory to be present at practicals (1 absence is tolerated) - oral presentation according the schedule Evaluation: final evaluation of students
Scale of assessment (preliminary/final): 0% / 100%

Learning outcomes:
The student receives information from clinical mictobiology, 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, newborne, infant, adult, immunocompromised, geriatric).

Class syllabus:
- Medical bacteriology - Medical virology - Medical parasitology - Medical mycology - Ethiology of infections of respiratory tract - Ethiology of infections of gastrointestinal tract - Etiology of infections of urogenital tract - Ethiology of infections of skin and soft tissue - Ethiology of infections of NS - Ethiology 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. Kompaniková J, Nováková E, Neuschlová M. Mikrobiológia nielen pre medikov. Žilina: EDIS 2013; 209 s. ISBN 978-80-554-0827-9. Nováková E, Porubská A, Kompaníková J, Neuschlová M. Lekárska mikrobiológia. 2013; 110 s. Available at: https://portal.jfmed.uniba.sk/clanky.php?aid=203 Neuschlová Martina, Nováková Elena, Kompaníková Jana. Imunológia - ako pracuje imunitný systém. Martin : Univerzita Komenského v Bratislave Jesseniova lekárska fakulta v Martine 2017; 189 s. ISBN 978-80-8187-031-6. Neuschlová M, Nováková E, Kompaníková J. Abeceda imunológie - terminologický slovník. UK v Bratislave JLF UK v Martine 2016; 60 s. ISBN 978-80-8187-016-3. Available at: https://portal.jfmed.uniba.sk/clanky.php?aid=344 Neuschlová M, Nováková E, Kompaníková J. Návody na praktické cvičenia z imunológie. UK v Bratislave JLF UK v Martine 2016; 114 s. ISBN 978-80-8187-017-0. 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. Carey A.R. a kol.Lékařská mikrobiologie v klinických případech Praha, Stanislav Juhaňák Triton, 2011

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 7

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

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

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPF/J-S-VL-083/19	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-036/17 - 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:
Rokyta R. a kol. Fyziologie a patologická fyziologie pro klinickou praxi. Grada, 2015. 712 s. ISBN 978-8024-748-67-2
Silbernagl S, Lang F. Atlas patofyziologie. Grada, 2012. 416 s. ISBN 978-8024-735-55-9
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:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 75

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. Matej Samoš, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Peter Kunč, PhD., doc. MUDr. Matej Vnučák, PhD.

Last change: 01.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-081/19	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: 9.

Educational level: I.II.

Prerequisites: JLF.ÚFa/J-S-VL-030/21 - 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:
J. Marek a kol.: Farmakoterapie vnitřních nemocí. Grada, 4. Vyd., 2010. 777 s.
B. Kaztung et al.: Basic and Clinical Pharmacology. McGrawHill Lange 15th Ed, 2020, 1328 s.
P. N. Bennet et al.: Clinical Pharmacology. Churchill Livingstone Elsevier, 11th Ed, 2012, 667 s.
H. P. Rang et al.: Rang and Dale`s Pharmacology. Elsevier, 9th Ed, 2019, 808 s.
M. Kertys: Základy všeobecnej farmakológie. Grada, 1. vyd, 2021, 172 s.
L. Mirossay, J. Mojžiš: Základná farmakológia a farmakoterapia I. + II. Equilibria, 2021, 1162 s.
M. Šutovská, S. Fraňová: Vybrané kapitoly z klinickej farmakológie: Antitrombotická a trombolytická liečba. Portál JLF UK, Martin, 2011, 127 s. (http://portal.jfmed.uniba.sk/clanky.php?aid=178)
J. Mokrý a kol.: Vybrané kapitoly z klinickej farmakológie: Antimikrobiálne látky I. – farmakológia. Portál JLF UK, Martin, 2013, 160 s. (http://portal.jfmed.uniba.sk/clanky.php?aid=219)
R. Hrubý, G. Nosáľová: Liečba depresívnych porúch. Portál JLF UK, Martin, 2011, 68 s. (http://portal.jfmed.uniba.sk/clanky.php?aid=167)

M. Jošková: Vybrané kapitoly z klinickej farmakológie Farmakológia liečiv v detskom veku I. Absorpcia liečiv. Portál JLF UK, Martin, 2017, 156 s. (https://portal.jfmed.uniba.sk/clanky.php?aid=366)
S. Fraňová, M. Šutovská: Vybrané kapitoly z farmakológie - farmakoterapia bolesti. Portál JLF UK, Martin, 2014, 123 s. (https://portal.jfmed.uniba.sk/clanky.php?aid=273)
S. Fraňová, M. Šutovská: Vybrané kapitoly z farmakológie: Farmakoterapia kašľa. Portál JLF UK, Martin, 2017, 85 s. (https://portal.jfmed.uniba.sk/clanky.php?aid=373)
M. Gajdoš, G. Nosáľová: Vybrané kapitoly z klinickej farmakológie: liečba aterosklerózy. Liečba osteoporózy. Univerzita Komenského, Bratislava, 2007, 50 s.
D. Meško, R. Pullmann, G. Nosáľová: Vademékum klinickej biochémie, Martin, Osveta 1998.
I. Tašková: Psychofarmaka v kazuistikách. Maxdorf, 2021, 432 s.
J. Pečeňák, V. Kořínková: Psychofarmakológia. Wolters Kluwer, 2016, 672 s.
P. Mohr a kol.: Klinická psychofarmakologie. Maxdorf, 2017, 320 s.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 290

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., doc. MUDr. Marta Jošková, PhD., prof. RNDr. Soňa Fraňová, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.CPMV/J-S-VL-142/24	Clinical Skills

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: 5.

Educational level: I.II.

Prerequisites: JLF.ÚFy/J-S-VL-016/16 - Physiology (2) and JLF.ÚA/J-S-VL-002/15 - Anatomy (2) and JLF.ÚO/J-S-VL-134/22 - Basics of Nursing Techniques

Recommended prerequisites:
Not applicable

Course requirements:
100% attendance, completion of a sample patient examination including medical history, completion of selected OSCE stations
Scale of assessment (preliminary/final): final assessment

Learning outcomes:
Intended Learning Objectives
The student:
1. Demonstrates effective communication skills and a professional approach in model clinical situations, including structured history taking and standardized documentation of medical history.
2. Applies the methodology of general physical examination (status praesens generalis) and performs orientation neurological assessment to evaluate consciousness, motor function, and sensory perception using the ABCDE approach.
3. Performs examination of the head and neck, identifies physiological and pathological findings, documents results in a standardized format, and assesses cranial nerve function with a focus on stroke-related symptoms.
4. Conducts chest and lung examination, understands indications for pulmonary assessment, identifies physiological and pathological findings, and documents results using standardized methods. Demonstrates basic diagnostic capabilities using POCUS lung sonography.
5. Performs heart and vascular system examination, understands indications for cardiovascular assessment, identifies physiological and pathological findings, and documents results in a standardized format. Practices targeted POCUS sonography for selected cardiovascular conditions.
6. Performs ECG examination, understands principles of ECG interpretation, and evaluates both technical and clinical aspects of ECG recordings.
7. Interprets ECG recordings with pathological findings and participates in simulation and assessment of cardiac rhythm disorders.

8. Conducts abdominal examination, understands indications for abdominal assessment, performs rectal examination, and documents findings in a standardized format. Applies physical examination and POCUS sonography in suspected abdominal fluid accumulation.
9. Demonstrates Basic Life Support (BLS) skills in adults and children, including AED operation and repeated application of the ABCDE approach (as introduced in First Aid training).
10. Performs examination of kidneys and urinary tract, understands indications for renal and urological assessment, practices urinary catheterization in men and women, performs bimanual palpation of kidneys and percussion testing, and demonstrates selected ultrasound findings using USG Mentor.
11. Collects capillary and venous blood samples (vacutainer and classical methods), inserts intravenous (i.v.) and intraosseous (i.o.) cannulas using bone models, understands fluid administration strategies, intravenous solutions, indications, contraindications, dosage calculations, and principles of parenteral nutrition.
12. Applies clinical reasoning in selected scenarios using the VP LEONARDO simulation platform, integrating knowledge from the course to determine accurate diagnosis and patient management strategies.

Class syllabus:

Communication, history taking, approach to the patient in model situations, standardized recording of medical history.
Examination training and standardized recording of status praesens generalis, orientation neurological examination for the assessment of consciousness, motor, and sensory status, ABCDE approach to the patient.
Training in head and neck examination, physiological and pathological findings, standardized recording of examination findings, and cranial nerve examination with a focus on CMP.
Training of chest and lung examination, indications for lung examination, physiological and pathological findings, standardized recording of examination results, and Possibilities of diagnosis of lung diseases by POCUS sonography.
Training in the cardiovascular examination, indications for cardiac examination, physiological and pathological findings, standardized recording of examination results, and Training in the examination of selected cardiovascular diseases by POCUS sonography.
Execution of ECG examination, principles of ECG evaluation, technical and clinical evaluation of ECG recording.
Evaluation of ECG recordings with pathological findings, simulation, and evaluation of cardiac rhythm disorders.
Practice of physical examination of the abdomen, indications for abdominal examination, per rectum examination, standardized recording of examination results. Physical examination and POCUS sonography when fluid is suspected in the abdomen.
BLS in adults and children, BLS training, operation and use of AED, ABCDE approach to the patient (repetition from the First Aid course).
The practice of renal and urinary tract examination, indications for renal and urinary tract examination, the practice of male and female bladder catheterization, practice of bimanual renal palpation, tapotement examination, demonstration and practice of selected USG findings in renal disease USG Mentor.
Capillary, venous blood collection (vacutainer, conventional collection), and insertion of i.v. cannula, i.o. cannula on real bone, fluid administration strategy, solutions for i.v. administration, indications, contraindications, calculations, parenteral nutrition.
Clinical reasoning - clinical diagnostic reasoning - in selected VP LEONARDO scenarios, students will apply the knowledge gained in the course towards the correct diagnosis and management of the patient

Recommended literature:
Thomas J, Monaghan T: Clinical examination - modern propedeutics, Prague, Grada, 2014.

Languages necessary to complete the course:
EN

Notes:

Past grade distribution
Total number of evaluated students: 87

A	ABS0	B	C	D	E	FX
97,7	0,0	0,0	0,0	0,0	0,0	2,3

Lecturers: prof. MUDr. Jana Plevková, PhD.

Last change: 06.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-125/25	**Course title:** Communication in Clinical Practice
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: 7.	
Educational level: I.II.	
Prerequisites: JLF.PK/J-S-VL-032/17 - Medical Psychology and Basics of Communication	
Course requirements: 1. The participation in practicals is compulsory for at least 12-times (24 hours, especially from 1st to 12th 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: minimal success 65 %; rating: 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 % Scale of assessment (preliminary/final): 100/0	
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. 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:

1. practical exercises
Communication in medicine – characteristic and meaning.
Basic communication skills of doctor: effective listening, empathy, understanding, advices.
2. 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.
3. practical exercises
Communication with cognitive disability and intellectual disability patient.
4. practical exercises
Communication with anxious and somatoform patient. Communication with depressive patient. Communication with suicidal patient.
5. practical exercises
Non-compliance patients. Dissatisfied and aggressive patient. Patient´s silence. Conflict in doctor ´s work and its solution. Communication with manic patient.
6. practical exercises
Communication with qualitative disturbance of consciousness. .
7. practical exercises
Communication with psychotic patient.
8. practical exercises
Communication with physical disability patient. Communication with sensory disability patient.
9. practical exercises
Specifics of communication with internal medicine patient, polymorbid patient and seniors.
10. practical exercises
Specifics of communication with surgical patient. Specifics of communication in obstetrics and gynecology.
11. practical exercises
Communication with seriously ill and dying patient. Communication with oncological patient. Reporting of negative/adverse messages. Communication with relatives.
12. practical exercises
Communication with intoxicated and addicted patient. Communication with personality disorder patient.
13. practical exercises
Specifics of communication with somatically ill patient in child age and adolescence. Communication with parents. Specifics of communication in child psychiatry.
14. practical exercises
Compensatory and repeating exercises

Recommended literature:

Komunikácia v klinickej praxi 1, 2 /4. roč./ x Žucha, I., Čaplová, T. a kol. Lekárska psychológia. Bratislava: UK, 2008. 208 s. ISBN 978-80-223-2439-7 x Morovicsová E. a kol. Komunikácia v medicíne. Bratislava: UK, 2011. 210 s. ISBN 978-80-223-3025-1 Raudenská J., Javůrková A. Lékařská psychologie ve zdravotnictví. Praha: Grada 2011. 304 s. ISBN 978-80-247-2223-8 Beran J. a kol. Lékařská psychologie v praxi. Praha: Grada 2010. 144 s. ISBN 978-80-247-1125-6 Honzák, R. Komunikační pasti v medicině. Praha: Galén, 1999. 165s. ISBN 80-726-203-20 Linhartová, V. Praktická komunikace v medicíně. Pro mediky, lékaře a ošetřující personál. Praha: Grada, 2006. 152 s. ISBN 978-80-247-1784-5 Bendová, M., Honzák, R. Doporučení pro partnery nemocných s rakovinou, aby byli svým blízkým skutečně prospěšní. REMEDIA Populi, 2001. str. 14-18.
Hosák, L., Hrdlička, M., Libiger, J. a kol. Psychiatrie a pedopsychiatrie. Praha: Univerzita Karlova Nakladatelství Karolínum 2019. 647 s. ISBN 978-80-246-2998-8, ISBN 978-80—246-3011-3 (pdf)
Kolibáš, E., Novotný, V.: Alkohol, drogy, závislosti. Bratislava UK, 2007. 257 s. ISBN 978-80-223-2315-4

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 118

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

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., doc. Mgr. Martina Dubovcová, PhD., MPH, MUDr. Zuzana Mlynčeková, PhD., Mgr. Eva Kiššová

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KSMCh/J-S-VL-052/19	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

Type, volume, methods and workload of the student - additional information
Lecture/Exercise, Range (in hours) - weekly: 1/0,5 E Method: Face-to-face

Number of credits: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites: JLF.ÚA/J-S-VL-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - Anatomy (3) and JLF.ChKTC/J-S-VL-022/22 - Surgical Propedeutics (1)

Course requirements:
Attendance on practical lectures 100%. Continuous assessment test form, minimum level succes 65 %. Final evaluation in the form of test examination.
Scale of assessment (preliminary/final): Final evaluation in the final test form minimum level succes 65 %.

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 pacient 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 – spred 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 or 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. Guidlines of the multimodal cancer therapy.

Recommended literature:

Tatjana Dostálová a kol.: Stomatologie, Praha: Grada, 2008, 196 s., ISBN 8024727004. Kolektív 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:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 893

A	ABS0	B	C	D	E	FX
73,46	0,0	24,3	1,79	0,22	0,22	0,0

Lecturers: doc. MUDr. Mária Janíčková, PhD., MPH, MUDr. Igor Malachovský, PhD., MDDr. Mária Michálková, MDDr. Daniel Hvizdoš, MDDr. Miroslav Jozefík, MDDr. Katarína Sudzinová, MDDr. Filip Matia, doc. MUDr. Dagmar Statelová, CSc., MDDr. Sarah Kalmanová, MDDr. Denis Hrivnák

Last change: 08.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.DK/J-S-VL-044/18	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: 8.

Educational level: I.II.

Prerequisites: JLF.ÚMI/J-S-VL-018/17 - Microbiology (2) and JLF.ÚPA/J-S-VL-034/17 - Pathological Anatomy (2)

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 dermatovenereology 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, furuncules and carbuncules, 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 transmited 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:
Buchvald a kol.: Dermatovenerológia, Osveta Martin, 1993
Braun-Falco, O., Plewig, G., Wolff, Helmut, H.: Dermatológia a venerológia. Martin, Osveta 2001.
Štork a kol. Dermatovenerologie, Galén 2013.
Minariková E. Ultrazvukový atlas kože. Univerzita Komenského, Bratislava 2017.
Minariková E. Vybrané benígne a malígne nádory kože. Univerzita Komenského, Bratislava 2017

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 858

A	ABS0	B	C	D	E	FX
52,45	0,0	31,93	11,89	2,45	1,28	0,0

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

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFy/J-S-VL-093/25	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: 7.

Educational level: I.II.

Prerequisites:

Course requirements:
The warp of diploma thesis, information research- submission of diploma thesis assignments to supervisor

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:
Acquaintance with the internal regulations related to the process of writing diploma thesis.
Acquaintance with the basic stages of the diploma thesis.
An option of a specific topic of thesis.
Strategy of diploma thesis (dedline plan).
The warp of diploma thesis and the main goals of assignments.
Information research-literature and documents suitable for thesis.
Consultation.

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
Hanáček J, Javorka K a kol.: Základy vedeckovýskumnej práce, Osveta, Martin, 2008, 216 s. ISBN 8080632816.
Meško D, Katuščák D a kol.: Akademická príručka, Osveta, Martin, 2005, 496 s. ISBN 8080632006.
Katuščák D: Ako písať záverečné a kvalifikačné práce, Enigma Publishing, s.r.o., Nitra, 2007, 162 s. ISBN 8089132454.

Languages necessary to complete the course:
Slovak /English

Notes:

Past grade distribution
Total number of evaluated students: 79

ABS0	M
100,0	0,0

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 Mokrý, PhD., doc. MUDr. Marta Jošková, PhD., doc. PharmDr. Martin Kertys, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Martin Grajciar, MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., doc. MUDr. Juraj Miklušica, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Pindura, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Martin Vojtko, 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., MBA, MUDr. Lucia Stančiaková, PhD., doc. MUDr. Tomáš Šimurda, PhD., MPH, Ing. Ingrid Škorňová, PhD., 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., PhDr. 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., doc. MUDr. Tomáš Jurko, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Vladimír Nosáľ, PhD., FESO, prof. MUDr. Štefan Sivák, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., MUDr. Tomáš Buday, PhD., MBA, MSc., prof. RNDr. Mariana Brozmanová, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., RNDr. Veronika Mešťanová, PhD., MUDr. Jan Hudeček, CSc., MUDr. Anna Ružinák Bobčáková, PhD., MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, prof. MUDr. Eva Rozborilová, CSc., doc. MUDr. Robert Vyšehradský, PhD., MUDr. Ivana Lipták Žiačiková, MUDr. Ján Lazor, MUDr. Róbert Rosoľanka, PhD., doc. MUDr. Katarína Šimeková, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, doc. 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., MUDr. Marek Adámik, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Lukáš Spevák, MUDr. Adam Švec, PhD., doc. MUDr. Milan Grofik, PhD., MUDr. Daniel Bolek, MUDr. Kristína Cmarková, MUDr. Patrik Horan, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, prof. MUDr. Ľudovít Laca, PhD., MUDr. Miloslav Mišánik, MUDr. Diana Musová, MUDr. Miroslav Slezák, PhD., MUDr. Tomáš Jesenský, MUDr. Barbora Vasiľová, MUDr. Ivana Daňová, PhD., MUDr. Marek Malík, PhD., MUDr. Vladimír Svitek, PhD., MUDr. René Opšenák, PhD., MUDr. Nikola Ferencová, PhD., RNDr. Nikoleta Mažgútová, PhD., prof. MUDr. Martin Péč, PhD., MPH, prof. RNDr. Erika Halašová,

PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD., RNDr. Marek Samec, PhD., Ing. Ján Strnádel, PhD.
Last change: 10.07.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KHT/J-S-VL-095/22	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 Hanáček J, Javorka K a kol.: Základy vedeckovýskumnej práce, Osveta, Martin, 2008, 216 s. ISBN 8080632816. Meško D, Katuščák D a kol.: Akademická príručka, Osveta, Martin, 2005, 496 s. ISBN 8080632006. Katuščák D: Ako písať záverečné a kvalifikačné práce, Enigma Publishing, s.r.o., Nitra, 2007, 162 s. ISBN 8089132454.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution

Total number of evaluated students: 521

ABS0	M
100,0	0,0

Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Daniela Mokrá, 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, PhDr. Marta Tkáčová, PhD., Ing. Stanislav Kuka, PhD., Mgr. Eva Malobická, PhD., PhDr. Mgr. Martin Novák, PhD., Mgr. Miroslava Sovičová, PhD., Mgr. Róbert Čecho, PhD., Mgr. Eliška Štefanová, PhD., Mgr. Mária Tatarková, PhD., prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Martina Šutovská, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., doc. MUDr. Marta Jošková, PhD., doc. PharmDr. Martin Kertys, PhD., prof. MUDr. Renata Péčová, PhD., MPH, prof. MUDr. Jana Plevková, PhD., prof. RNDr. Mariana Brozmanová, PhD., MUDr. Tomáš Buday, PhD., MBA, MSc., MUDr. Ivana Daňová, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Martin Grajciar, MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., doc. MUDr. Juraj Miklušica, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Pindura, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Martin Vojtko, prof. MUDr. Ján Staško, PhD., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MBA, MUDr. Lucia Stančiaková, PhD., doc. MUDr. Tomáš Šimurda, PhD., MPH, Ing. Ingrid Škorňová, PhD., 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., doc. MUDr. Tomáš Jurko, PhD., prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Romana Richterová, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Vladimír Nosáľ, 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 Ružinák Bobčáková, PhD., 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 Rosoľanka, PhD., doc. MUDr. Katarína Šimeková, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, PhD., MUDr. Peter Hyrdel, PhD., prof. MUDr. Rudolf Hyrdel, CSc., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, 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. Marek Adámik, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Lukáš Spevák, MUDr. Miroslav Slezák, 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. Matej Samoš, PhD., prof. MUDr. Peter Galajda, CSc., MUDr. Karol Graňák, PhD., MUDr. Lívia Jamrišková, PhD., doc. MUDr. Milan Grofik, PhD., MUDr. Daniel Bolek, MUDr. Patrik Horan, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, MUDr. Miloslav Mišánik, MUDr. Diana Musová, MUDr. Tomáš Jesenský, MUDr. Barbora Vasiľová, RNDr. Nikoleta Mažgútová, PhD., prof. RNDr. Peter Kubatka, PhD., MUDr. René Opšenák, PhD., MUDr. Tatiana Hurtová, PhD., MSc., prof. MUDr. Martin Péč, PhD., MPH, prof. RNDr. Erika Halašová, PhD., RNDr. Mária

Franeková, PhD., Mgr. Jana Mazuchová, PhD., RNDr. Marek Samec, PhD., Ing. Ján Strnádel, PhD., MUDr. Terézia Kozáková, MUDr. Mária Kyselová, MUDr. Tomáš Rokos, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD.
Last change: 08.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KHT/J-S-VL-096/22	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:
Detailed knowledge of the content of other documents obtained in the information survey, reading, studying. Selection of relevant documents and information for further processing. Complete list of bibliographic references. Creation of work - fulfillment of individual parts of the final outline of work with material from study and research (according to the focus of the work); work text creation. Preparation of documentation for work - list of bibliographic references, illustrations, tables. Independent research work of students - according to the focus of the work. Consultation.

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 Hanáček J, Javorka K a kol.: Základy vedeckovýskumnej práce, Osveta, Martin, 2008, 216 s. ISBN 8080632816. Meško D, Katuščák D a kol.: Akademická príručka, Osveta, Martin, 2005, 496 s. ISBN 8080632006. Katuščák D: Ako písať záverečné a kvalifikačné práce, Enigma Publishing, s.r.o., Nitra, 2007, 162 s. ISBN 8089132454.

Languages necessary to complete the course:

slovak language

Notes:

Past grade distribution
Total number of evaluated students: 429

ABS0	M
100,0	0,0

Lecturers: MUDr. Tatiana Hurtová, PhD., MSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Katarína Adamicová, PhD., MUDr. Marek Adámik, PhD., MUDr. Tomáš Balhárek, PhD., prof. MUDr. Tibor Baška, PhD., prof. MUDr. Kamil Biringer, PhD., prof. RNDr. Mariana Brozmanová, PhD., MUDr. Tomáš Buday, PhD., MBA, MSc., MUDr. Ivana Chmúrna, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Ivana Daňová, PhD., prof. MUDr. Ivana Dedinská, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Nikola Ferencová, PhD., RNDr. Mária Franeková, PhD., prof. RNDr. Soňa Fraňová, PhD., MUDr. Jaroslav Fábry, PhD., MUDr. Martin Grajciar, doc. MUDr. Milan Grofik, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. RNDr. Erika Halašová, PhD., MUDr. Michal Hošala, PhD., MUDr. Michaela Hrtánková, PhD., MUDr. Jan Hudeček, CSc., prof. MUDr. Henrieta Hudečková, PhD., MPH, doc. Ing. Viera Jakušová, PhD., MPH, MUDr. Ján Janík, PhD., prof. MUDr. Kamil Javorka, DrSc., doc. MUDr. Marta Jošková, PhD., doc. MUDr. Tomáš Jurko, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Petra Kasajová, PhD., doc. PharmDr. Martin Kertys, PhD., prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Petra Kolenčíková, PhD., MUDr. Terézia Kozáková, MUDr. Štefan Krivuš, CSc., prof. RNDr. Peter Kubatka, PhD., prof. MUDr. Peter Kubisz, DrSc., Ing. Stanislav Kuka, PhD., prof. MUDr. Egon Kurča, PhD., FESO, MUDr. Mária Kyselová, prof. MUDr. Erik Kúdela, PhD., MUDr. Lenka Lisá, PhD., Mgr. Eva Malobická, PhD., MUDr. Marek Malík, PhD., Mgr. Jana Mazuchová, PhD., prof. MUDr. Katarína Maťašová, PhD., RNDr. Nikoleta Mažgútová, PhD., prof. MUDr. Dušan Meško, PhD., doc. MUDr. Juraj Miklušica, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Jozef Mičák, PhD., prof. MUDr. Daniela Mokrá, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, PhDr. Mgr. Martin Novák, PhD., MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Pindura, PhD., prof. MUDr. Lukáš Plank, CSc., prof. MUDr. Jana Plevková, PhD., prof. MUDr. Martin Péč, PhD., MPH, prof. MUDr. Renata Péčová, PhD., MPH, MUDr. Romana Richterová, PhD., RNDr. Marek Samec, PhD., MUDr. Jana Siváková, PhD., prof. MUDr. Štefan Sivák, PhD., MUDr. Miroslav Slezák, PhD., doc. MUDr. Marek Smolár, PhD., MPH, doc. MUDr. Juraj Sokol, PhD., MBA, Mgr. Miroslava Sovičová, PhD., MUDr. Lukáš Spevák, MUDr. Lucia Stančiaková, PhD., prof. MUDr. Ján Staško, PhD., Ing. Ján Strnádel, PhD., MUDr. Vladimír Svitek, PhD., Mgr. Mária Tatarková, PhD., PhDr. Marta Tkáčová, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., MUDr. Monika Turčanová Koprušáková, PhD., doc. MUDr. Matej Vnučák, PhD., MUDr. Martin Vojtko, prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Andrea Čalkovská, DrSc., doc. MUDr. Vladimír Čalkovský, PhD., Mgr. Róbert Čecho, PhD., doc. MUDr. Tomáš Šimurda, PhD., MPH, Ing. Ingrid Škorňová, PhD., Mgr. Eliška Štefanová, PhD., prof. MUDr. Martina Šutovská, PhD., prof. MUDr. Viera Švihrová, CSc., MUDr. Imrich Žigo, CSc., RNDr. Jana Žolková, PhD., MUDr. Daniel Bolek, MUDr. Ľuboš Hamada, MUDr. Patrik Horan, MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Lenka Juríčková, doc. RNDr. Mária Kovalská, PhD., MUDr. Roman Kyčina, MUDr. Ján Lazor, MUDr. Ivana Lipták Žiačiková, RNDr. Veronika Mešťanová, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Róbert Rosoľanka, PhD., prof. MUDr. Eva Rozborilová, CSc., MUDr. Anna Ružinák Bobčáková, PhD., doc. MUDr. Robert Vyšehradský, PhD., MUDr. Ján Červeň, MPH, doc. MUDr. Katarína Šimeková, PhD., MUDr. Tomáš Jesenský, MUDr. Tomáš Rokos, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD.

Last change: 08.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF/J-S-VL-SS5/21	**Course title:** Diploma Thesis and Defense of Diploma Thesis
Number of credits: 4	
Educational level: I.II.	
Prerequisites: JLF.ÚFy/J-S-VL-093/22 - Diploma Thesis Seminar (1) and JLF.KHT/J-S-VL-095/22 - Diploma Thesis Seminar (2) and JLF.KHT/J-S-VL-096/22 - 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. Scale of assessment (preliminary/final): final	
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:	

Slovak language
Last change: 07.04.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-094/19	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-117/19 - Public Health (1) and JLF.KICM/J-S-VL-067/19 - Infectology

Recommended prerequisites:
Public Health 1, Infectology

Course requirements:
EVALUATION OF THE COURSE
To compete the course, three basic conditions should be fulfilled:
1) Active attendance at the lectures and seminars:
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)
2) Test for continuous evaluation (10 questions per 5 points) max. 50 points
3) Final test (10 questions per 5 points) max. 50 points
Final evaluation (max. 100 points):
For successful completion of the course, at least 60 points in final evaluation are needed.
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)
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:
Klement C. a kol. Mimoriadne udalosti vo verejnom zdravotníctve. Banská Bystrica: PRO, 2011, 664 s. ISBN: 978-80-89057-29-0
Recommended literature:
PRYMULA R. a kol.: Biologický a chemický terorizmus. Praha: Grada, 2002. 152 s.
http://www.who.int/topics/
www.ecohealth101.org
KLEMENT CYRIL a kol: Medzinárodné zdravotné predpisy. Banská Bystrica: PRO, 2009. 438 s., ISBN: 978-80-89057-24-5
KLEMENT CYRIL, Mezencev, Roman a kol: Biologické zbrane. Bratislava: BONUS, 2008, 380 s., ISBN: 978-80-969733-2-3

Languages necessary to complete the course:
slovak, czech, english

Notes:

Past grade distribution
Total number of evaluated students: 57

A	ABS0	B	C	D	E	FX
92,98	0,0	1,75	5,26	0,0	0,0	0,0

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

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚA/J-S-VL-134/20	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): 50/100Hodnotenie: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:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 76

A	ABS0	B	C	D	E	FX
93,42	0,0	0,0	0,0	0,0	0,0	6,58

Lecturers: doc. MUDr. Desanka Výbohová, PhD., RNDr. Alena Mazuráková, PhD., MUDr. Katarína Lešková, PhD., MVDr. Sandra Hurta Csizmár, PhD.

Last change: 29.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.CPMV/J-S-VL-145/25	Electrocardiography in simulation and clinical cases

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: 7.

Educational level: I.II.

Prerequisites: JLF.ÚFy/J-S-VL-016/16 - Physiology (2) and JLF.ÚPF/J-S-VL-036/17 - Pathological Physiology (2)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 31

A	ABS0	B	C	D	E	FX
93,55	0,0	0,0	0,0	0,0	0,0	6,45

Lecturers: prof. MUDr. Jana Plevková, PhD.

Last change: 06.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚHE/J-S-VL-135/20	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 the 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.: Langmanova lékařská embryologie. Grada, 2010, 414 s., ISBN 9788024726403
Recommended literature:
Kapeller, K., Pospíšilová, V.: Embryológia človeka. Martin: Osveta, 2001, 370 s. ISBN 80-8063-072-0

Languages necessary to complete the course:
slovak, english

Notes:

Past grade distribution
Total number of evaluated students: 386

A	ABS0	B	C	D	E	FX
81,61	0,0	12,44	2,85	1,04	0,26	1,81

Lecturers: RNDr. Veronika Mešťanová, PhD., doc. MVDr. Soňa Bálentová, PhD., Ing. Veronika Cígerová, PhD., doc. RNDr. Mária Kovalská, PhD., Ing. Bibiana Krajňáková, PhD., RNDr. Lenka Lacková, PhD.

Last change: 13.09.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KAIM/J-S-VL-106/19	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-039/18 - Internal Medicine (1) and JLF.ÚFa/J-S-VL-029/21 - Pharmacology (1)

Course requirements:
Attendance of 100 % of practicals and successful completition of final test.
Scale of assessment (preliminary/final): Interim evaluation, final evaluation.

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 acuire 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: 855

A	ABS0	B	C	D	E	FX
61,87	0,0	25,96	8,19	2,81	1,17	0,0

Lecturers: MUDr. Zuzana Biringerová, PhD., MUDr. Zuzana Benić, MUDr. Zuzana Čiljaková, prof. MUDr. Beata Drobná Sániová, PhD., MUDr. Tomáš Fecko, MUDr. Richard Koyš, PhD.,

MUDr. Jana Sendreyová, MUDr. Alena Škutchanová, MUDr. Michal Venglarčík, PhD., MUDr. Martina Čabalová
Last change: 08.09.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚO/J-S-VL-031/17	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: 3., 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:
Čáp, J., Palenčár, M., Kurucová, R. Ľudská dôstojnosť v kontexte smrti a umierania. Martin: Vydavateľstvo Osveta, 2016.

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.
Etický kódex zdravotníckeho pracovníka, príloha č. 4. In Zákon č. 578/2004 Z.z. Národnej rady Slovenskej republiky o poskytovateľoch zdravotnej starostlivosti, zdravotníckych pracovníkoch, stavovských organizáciách v zdravotníctve a o zmene a doplnení niektorých zákonov.
Európska charta práv pacienta.
Charta práv pacienta v Slovenskej republike.
Nemčeková, M., Žiaková, K., Mištuna, D. Práva pacientov: Medicínske, ošetrovateľské a filozoficko-etické súvislosti. Martin : Osveta, 2004. 213 s. ISBN 80-8063-162-X.
Právo ženy? Štúdie o problematike interrupcií. Bratislava: Kalligram, 2004. ISBN 80-7149-612-X.
Príručka lekárskej etiky. Svetová asociácia lekárov. 2008. ISBN 978-80-8095-036-1
Ptáček, R., Bartůněk et al. Etické problémy medicíny na prahu 21. století. Praha: Grada, 2014.
Ptáček, R., Bartůněk et al. Etika a komunikace v medicíně. Praha: Grada, 2011.
Zákon č. 576/2004 Z. z. Národnej rady Slovenskej republiky o zdravotnej starostlivosti, službách súvisiacich s poskytovaním zdravotnej starostlivosti a o zmene a doplnení niektorých zákonov.

Languages necessary to complete the course:
Slovak language

Notes:
The subject is supported by MS Teams.

Past grade distribution
Total number of evaluated students: 1263

A	ABS0	B	C	D	E	FX
86,06	0,32	11,56	1,74	0,24	0,08	0,0

Lecturers: doc. Mgr. Juraj Čáp, PhD., Mgr. Martina Nebošková, PhD.

Last change: 23.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-105/18	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:
To compete the course, three basic conditions should be fulfilled:
1) Active attendance at 6 at least
In case of missing, the student should compensate the respective seminar upon agreement with the teacher
2) Continuous test (10 questions per 5 points) max. 50 points
3) Final test (10 questions per 5 points) max. 50 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)
For successful completion of the course, at least 60 points in final evaluation and 6 correct answers in each test are needed.
In case of insufficient fulfilment of conditions for continuous evaluation stated in the syllabus, the guarantee assigns a term for their substitution during exam period.
Scale of assessment (preliminary/final): 50/50

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:
History of health insurance system. Health insurance models. Reform of health insurance system in Slovakia. Sources of funding, their structure, principle of redistribution. Payment methods – development and current situation in Slovakia and Europe. Stakeholders in health insurance system. The tasks of health insurance company in the provision of healthcare, rights and obligations of insured persons. Supervision mechanisms in health insurance system. Financing of different forms of healthcare. Current situation in healthcare 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.
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
Recommended literature::
KOVÁČ E.: Zdravotné poistenie. Bratislava, Herba, 2009, s. 96, ISBN 978-80-89171-62-0

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 346

A	ABS0	B	C	D	E	FX
99,71	0,0	0,0	0,0	0,0	0,0	0,29

Lecturers: prof. MUDr. Viera Švihrová, CSc.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ1/15	Foreign Language (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 result of foreign language study is to fulfill professional needs of medical students as future doctors in practising and acquiring effective reading strategies and skills (study skills) needed for obtaining and processing medical information from foreign resources and in acquiring such productive skills that enable them function effectively in some typical professional situations and contexts.

Class syllabus:
English Language:
1. Education
Brainstorming, exchange of views. Study at the Faculty of Medicine. Requirements for obtaining a degree in our country and abroad. Discussion. Medical language: Medical branches and subjects. Famous personalities of medicine - Ján Jessenius.
2. Human body systems
Adding the names of parts of the human body to the picture. Individual systems of the human body, their organs and functions. Medical language: Formation of medical terms. Derived adjectives. Listening: Human body systems in English songs.
3. Cells
Recognize the individual cell types in the picture according to their description and correctly assign their functions. Cell structure and function. Guided note-taking. Medical language: Regular and irregular plural. Video: Why are we so different? The difference between mitosis and meiosis. 3D animation. Communication activity aimed at creating direct questions: Guess who I am?
4. Circulatory system: Blood and lymph
Slovak versus English idioms with the word blood. True / false statements. Blood composition. Lymph and lymphatic system. Medical language: Derived adjectives. Compound adjectives. Video:

Types of blood cells. Blood groups and blood compatibility. From clinical medicine: Various blood diseases. Celebrities: Discoverers of blood groups.
5. Cardiovascular system
Idioms with the word heart. True / false statements. Circulatory system. Medical language: Full relative closes. Short relative closes. Video: Heart and circulatory system. From clinical medicine: CAD symptoms and heart attack.
6. Healthy lifestyle
Discussion about lifestyle habits. Heart disease prevention. Medical language: Reading various numerical data and mathematical tasks. Video: How cholesterol clogs your arteries (atherosclerosis).
7. Gastroenterology
Labelling parts of the digestive system in the picture. Balanced diet for healthy growth of children. Medical language: Vocabulary expansion in the field of nutrition. Medical and non-medical terms. Video: Introduction to gastroenterology. Discussion of eating habits.
8. Urology
Urinary system quiz. Structure and function of the urinary system. Interview with a urologist about the most common diseases and genetic disorders. Medical language: Causal use of the verb "to have". The grammar structure "to be used to". Medical record after examination of the patient. Video: Kidney and kidney disease.
9. Gynaecology
Description of images. Deduction of the meaning of some gynaecological terms. Structure and function of the female reproductive system. Video: Cervical screening test. Medical language: The most used suffixes in gynaecology. Video: Breast cancer.
10. Obstetrics
Description of pictures. Video: Development of a baby during pregnancy. Normal pregnancy. Medical language: Phrasal verbs. Video: Caesarean delivery (C-section). Expand your obstetrics vocabulary.
German Language:
1. Anatomieunterricht
Anatomie des menschlichen Körpers: Körperteile, Skelett. Knochentypen und -struktur; Arten von Gelenken. Im Anatomieunterricht. Grammatik: Konjugation von unregelmäßigen Verben - Präsens.
2. Anatomie und Krankheiten
Gelenkerkrankungen: Arthrose. Künstliche Körperteile. Unterricht am Tablet-PC. Grammatik: Passivformen.
3. Kardiologie und Herzkrankheiten
Herz. Lungen- und Körperkreislauf. Herzinfarkt - Ursachen, Symptome und Behandlung. Grammatik: Deklination von Adjektiven, Imperativ.
4. Pneumologie
Atmungsstruktur. Atmungsfunktion. Menschliche Atmung. Grammatik: Verben mit trennbarem und untrennbarem Präfix.
5. Lungenerkrankungen
Lungenkrankheit. Die häufigsten Atemwegserkrankungen. Gespräch mit einem Hausarzt. Grammatik: Verben – Präteritum, Perfekt.
6. Urologie
Urogenitalsystem. Urogenitaltrakt bei Frauen und Männern. Nierenstruktur und -funktion. Grammatik: Nebensätze.
7. Nieren- und Harnwegserkrankungen.
Erkrankungen der Prostata. Harnsteine (Urolithiasis). Harnwegsinfektion; Blasenschwäche (Harninkontinenz). Grammatik: Infinitiv mit zu.

8. Verdauung
Aufbau und Funktion des Verdauungssystems. Der Verdauungsprozess. Verdauungs-störungen: Darmerkrankungen. Darmspiegelung. Grammatik: Infinitiv mit zu; Präpositionen mit Dativ und Akkusativ.
9. Gynäkologie und Geburtshilfe
Gynäkologie. Gebärmutter-Anatomie. Geburtshilfe. Grammatik: Wortbildung.
10. Frauenkrankheiten und Schwangerschaft
Brustkrebs. Postmenstrualsyndrom. Gefahren in der Schwangerschaft. Grammatik: Mehrteilige Konjunktionen
11. Hämatologie
Blut - die Zusammensetzung des Blutes
Physiologie des Blutes - Hämostase. Blutgruppen-Systeme, Rhesusfaktor. Grammatik: Partizipien als Adjektivattribute.
12. Blutkrankheiten

Recommended literature:
English language:
Džuganová, B.–Zrníková, P. (2021) English in General Medicine. Vydavateľsto UK, Bratislava.
Džuganová, B. – Gresty, J. (2014) Angličtina pre lekárov a pracovníkov v zdravotníctve. Bratislava: Eastone Books.
Glendinning, E., Holmström, B. (1992) English in Medicine. A Course in Communication Skills. Cambridge: Cambridge Univ. Press.
James, D.V. (1992) Medicine. English for Academic Purpouses Series. London: Prentice Hall.
German language:
Bujalková, M., Barnau, A. (2018) Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Osveta.
Dusilová, D. a kol. (2004) Sprechen Sie Deutsch? Učebnice němčiny pro zdravotnické odbory. Praha: Polyglot.

Languages necessary to complete the course:
English Language/German Language

Notes:

Past grade distribution
Total number of evaluated students: 1449

A	ABS0	B	C	D	E	FX
41,48	1,38	33,26	14,49	7,11	2,28	0,0

Lecturers: Mgr. Anna Barnau, PhD., PhDr. Božena Džuganová, PhD., Mgr. Nora Malinovská, PhD., PhDr. Katarína Murčeková

Last change: 17.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ2/25	Foreign Language (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: 3

Recommended semester: 2.

Educational level: I.II.

Prerequisites: JLF.ÚCJ/J-S-VL-CJ1/15 - Foreign Language (1)

Course requirements:
1 written credit test,1 PowerPoint presentation of specialized topic, 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 test and presentation / 60% for oral and written exam

Learning outcomes:
The aim of foreign language study is to address professional needs of medical students as future doctors in practising and acquiring effective reading strategies and skills (study skills) needed for obtaining and processing medical information from foreign resources and in acquiring such productive skills that enable them function effectively in some typical professional situations and contexts.

Class syllabus:
English Language:
1. Anatomical dissection lessons according to study groups.
2. Neurology
Crossword puzzle solution. Effects of aging on the nervous system. Medical language: Negative prefixes. Video: Brain: Structure and function; How Parkinson's disease affects the body; Understand Alzheimer's disease in 3 minutes.
3. Sleep
Sleep habits quiz. Sleep phases - sleep cycles. Video: What happens when we sleep? Grammar: Gerund and infinitive. Discussion: Insomnia. Famous people - Sigmund Freud.
4. Infectious diseases
Brainstorming - do you know any infectious diseases? Bacterial and viral infections. Medical language: Passive voice. From clinical medicine: Meningitis. Video: Signs and symptoms of meningitis.
5. Respiratory diseases
Labelling of the diagram. Pneumonia. Medical language: Instructions; Explanation of procedures. Video: Asthma. Grammar: Plural forms. From clinical medicine: Cough, sputum, mucus.

6. Cancer
Cancer history quiz. Video: How to recognize the symptoms of colon cancer. Grades and types of cancer. Grammar: Conditional. Communication activity: Principles of reporting bad news.
7. HIV / AIDS
10 most common myths and misconceptions about HIV / AIDS. Common facts about HIV / AIDS. Video: AIDS - Everything you need to know. Medical language: Adverbs. Additional reading: Did you know? December 1 is Red Ribbon Day.
8. Examination of the patient
Description of situations in the pictures. In the general practitioner's outpatient clinic
Video: General physical examination. Medical language: Polite requests; Asking for permission. Four main investigative techniques.
9. Communication with the patient
Brainstorming. Medical language: Asking questions. Video: Taking a clinical history (patient example). Communication with children and adolescents. Communication with elderly patients. From clinical medicine: A case study.
10. Admission to the hospital
First aid kit. Planned hospitalization. Listening Comprehension: In the hospital. Medical language in contact with the patient. Communication activity: Role-play.
11. Surgery
Discussion. Minimally invasive surgery. Video: Robotic surgeons are the future of medicine. Communication activity: Group discussion. From clinical medicine: Anesthetics
13. – 14. PowerPoint presentations of students of individual medical topics
German Language:
1. Otorhinolaryngologie
Womit beschäftigt sich HNO? Aufbau und Funktion des Ohres, Hören. Nase - Aufbau und Funktion. Grammatik: Erweiterte Partizipialattribute
2. Hals-Nasen-Ohren-Erkrankungen
Heuschnupfen, Sinusitis, Angina pectoris, Angina, Larynxkarzinom, Tinnitus, Otitis media. Medizinische Berufe. Grammatik: Deklination von Substantiven.
3. Stomatologie
Aufbau der Zähne, Milchzähne, Erwachsenengebiss. Grammatik: Pronominaladverbien und Fragewörter
4. Zahnkrankheiten
Karies, Plaque, Parodontitis und Zahnausfall, Stufen beim Karies. Gespräch beim Zahnarzt. Grammatik: Antonyme.
5. Endokrinologie
Exokrine und endokrine Drüsen. Hormone - chemische Botenstoffe des Körpers. Funktion und Wirkung der Hormone. Grammatik: Direkte und indirekte Fragesätze.
6. Stoffwechsel- und Hormonerkrankungen
Schilddrüsenerkrankungen. Zuckerkrankheit (Diabetes mellitus). Fettstoffwechselerkrankungen.
7. Augenheilkunde
Aufbau des Auges, Funktion des Auges, Sehvorgang, Akkomodation. Grammatik: Nominalisierung von Verben und Adjektiven.
8. Augenkrankheiten und Sehschwäche
Altersbedingte Augenerkrankungen und Augenentzündungen. Schlechtes Sehvermögen - Weitsichtigkeit, Kurzsichtigkeit und Astigmatismus. Refraktive Chirurgie. Grammatik: Passiversatzformen.
9. Dermatologie
Aufbau der Haut, Funktion der Haut. Hauterkrankungen (Hautkrebs, Neurodermitis)

Grammatik: Personal-, Reflexiv- und Relativpronomen.
10. Pädiatrie
Kinder- und Jugendmedizin. Häufige Kinderkrankheiten (Mumps, Röteln, Scharlach, Pocken). Vorsorgeuntersuchungen für Kinder und Jugendliche. Grammatik: Nebensätze - Temporalsätze.
11. Neurologie
Zentrales und peripheres Nervensystem. Das Gehirn und die Verknüpfungen im Gehirn. Funktionen der Gehirnbereiche. Grammatik: Konjunktiv II.
12. Neurologische Erkrankungen
Erkrankungen des menschlichen Nervensystems. Vergesslichkeit bei der Alzheimer-Krankheit. Alzheimer – Krankheit des Vergessens, Ratschläge für Alzheimer-Patienten.
Grammatik: Ratschläge für das Lösen eines Problems
13. - 14. Präsentationen von Studierenden zu einzelnen medizinischen Themen

Recommended literature:
English language:
Džuganová, B.–Zrníková, P. (2021) English in General Medicine. Vydavateľsto UK, Bratislava.
Džuganová, B. – Gresty, J. (2014) Angličtina pre lekárov a pracovníkov v zdravotníctve. Bratislava: Eastone Books.
Glendinning, E., Holmström, B. (1992) English in Medicine. A Course in Communication Skills. Cambridge: Cambridge Univ. Press.
James, D.V. (1992) Medicine. English for Academic Purpouses Series. London: Prentice Hall.
German language:
Bujalková, M., Barnau, A. (2018) Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Osveta.
Dusilová, D. a kol. (2004) Sprechen Sie Deutsch? Učebnice němčiny pro zdravotnické odbory. Praha: Polyglot.

Languages necessary to complete the course:
English language, German language

Notes:

Past grade distribution
Total number of evaluated students: 11

A	ABS0	B	C	D	E	FX
81,82	0,0	18,18	0,0	0,0	0,0	0,0

Lecturers: PhDr. Božena Džuganová, PhD., Mgr. Nora Malinovská, PhD., PhDr. Katarína Murčeková, Mgr. Anna Barnau, PhD.

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ5/18	Foreign Language for Special Purposes (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: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Foreign language 1, Foreign language 2

Course requirements:
95% participation in seminars, 1 written credit tests, 1 oral test/ presentation, minimum percentage to pass each part 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 aim of teaching is a significant expansion of professional vocabulary. Emphasis is placed on developing the ability to listen to patient complaints, actively respond to them, ask competent questions necessary to make anamnesis, instruct the patient in a physical examination, explain the necessary treatment and advise what he/she should and should not do. Subsequently, the final outcome of teaching process is the required language skill.

Class syllabus:
English language:
1 Job interview, job application, job interview, job description and its content.
2 Admission to hospital, types of hospital admissions, hospitalization process, modal verbs.
3 Taking medical history and diagnostic process, medical history taking, structuring of medical history, family and social aspects, question formation
4 Current health concerns, personal data, diagnostics of current health concerns, medical report, description of pain, asking questions, tenses.
5 Instructions and procedures, preparation for the visit, explanation of the procedure, giving instructions, polite expression of the request.
6 Explanation and reassurance, gastroscopy, explanation of possible complications, passive voice, future tense.
7 Test I.
8 Medication, prescription of drugs in the hospital, side effects, abbreviations, phrasal verbs.

9 General practitioner work, general practitioner's job description, case study, a referral letter, present simple tense, past simple tense,
10 Lifestyle, expression of compassion and empathy, family support for patients, anamnesis, overweight and obesity, presentation of proposals.
11 Food and diet, principles of balanced diet, diet as a lifestyle / therapeutic element, the so-called intermittent starvation, presentation of proposals.
12 Parents and young children, exchange of experience, educational approaches, parenthood and trust, conditionals.
13 Communication, appropriate responses in a defensive patient, open / closed questions.
14 Oral presentation/test I.
German language:
1. Anatomieunterricht. Anatomie des menschlichen Körpers: Körperteile, Skelett, Typen und Bau der Knochen; Gelenktypen, Im Anatomieunterricht. Grammatik: Konjugation der unregelmäßigen Verben - Präsens.
2. Anatomie und Krankheiten. Gelenkerkrankungen: Arthrose. Künstliche Körperteile. Anatomieunterricht am Tablet-PC. Grammatik: Passivformen
3. Kardiologie und Herzerkrankungen. Das Herz-Lungen- und Körperkreislauf. Myokardinfarkt – Ursachen, Symptome und Therapie. Grammatik: Deklination von Adjektiven, Imperativ.
4. Pneumologie. Aufbau der Atmungsorgane, Funktion der Atmungsorgane, Atmung des Menschen Grammatik: Trennbare und untrennbare Verben.
5. Lungenerkrankungen. Erkrankungen der Lunge. Die häufigsten Atemwegserkrankungen. Gespräch beim Hausarzt. Grammatik: Verben − Vergangenheit
6. Test I.
7. Urologie. Das Urogenitalsystem. Urogenitaltrakt bei der Frau und beim Mann. Aufbau und Funktion der Nieren. Grammatik: Nebensätze
8. Erkrankungen der Nieren und Harnwege. Erkrankungen der Prostata (Vorsteherdrüse). Harnsteine (Urolithiasis). Harnwegsinfekt; Blasenschwäche (Harninkontinenz). Grammatik: Infinitiv mit zu
9. Verdauung. Aufbau und Funktion des Verdauungssystems. Der Verdauungsprozess. Erkrankungen des Verdauungstraktes: Darmerkrankungen. Darmspiegelung (Koloskopie). Grammatik: Hilfsverben mit Infinitiv + zu; Präpositionen mit Dativ und Akkusativ.
10. Gynäkologie und Geburtshilfe. Frauenheilkunde. Anatomie der Gebärmutter. Geburtshilfe. Grammatik: Wortbildung.
11. Frauenkrankheiten und Schwangerschaft. Brustkrebs. Postmenstrualsyndrom. Gefahren in der Schwangerschaft. Grammatik: Mehrteilige Konjunktionen.
12. Hämatologie. Das Blut – Zusammensetzung des Blutes. Physiologie des Blutes – Hämostase. Blutgruppen-Systeme, Rhesus- Faktor. Grammatik: Partizipien als Adjektivattribute.
13. Bluterkrankungen. Anämie. Hämophilie. Leukämie – Blutkrebs. Grammatik: Präpositionen mit Genitiv.
14. Test II.

Recommended literature:

English language:
Džuganová, B. – Gresty, J. (2014) Angličtina pre lekárov a pracovníkov v zdravotníctve. Bratislava : Easton Books.
German language:
Bujalková, M., Barnau, A. (2018) Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta.

Languages necessary to complete the course:

English language/German language

Notes:
To start the classes of Language for Specific Purposes, the minimum required number of attending students is 5.

Past grade distribution
Total number of evaluated students: 23

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

Lecturers: Mgr. Anna Barnau, PhD.

Last change: 21.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ6/18	Foreign Language for Special Purposes (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: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Foreign Language for Special Purposes 1

Course requirements:
95% participation in seminars, 1 written credit tests, 1 oral test/presentation, minimum percentage to pass each part 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 result of teaching is a significant expansion of professional vocabulary. Emphasis is placed on developing the ability to listen to patient complaints, actively respond to them, ask competent questions necessary to make anamnesis, instruct the patient in a physical examination, explain the necessary treatment and advise what he/she should and should not do. Subsequently, the final outcome of teaching process is the required language skill.

Class syllabus:
English language:
1 Medical emergency service, accident description, first aid, signs and symptoms, adjectives, adverbs, tense shifting.
2 Accidents, safety measures, prevention, fractures, minor injuries, X-rays, expression of necessity politely but unyielding.
3 Sports Medicine, head injuries, physical health, types of questions, instructions, warning, persuasion, verbs expressing movement.
4 Obstetrics, stages of childbirth, expression of support, importance of bonding and attachment, discussion on pregnancy, lay words / technical expressions, counseling, expression of expectations
5 Psychiatry, psychiatric symptoms, abnormal sensations, depression and anxiety, risk assessment, phrasal verbs, prepositional verbs.
6 Geriatrics, Parkinson's disease, Alzheimer's disease, binding would / used to, binding get / be used to.
7 Test II.

8 Dermatology, diagnostics and management of skin problems, word and sentence stress.
9 Surgery, ovarian cysts, explanation of treatment, relative clauses.
10 Cardiology, cardiological risk factors, hypertension, lifestyle change advice, future tense in technical terminology, accent.
11 Respiratory diseases, respiratory problems, inhalers, definite / indefinite articles.
12 Urology, urological examination and diagnostics of diseases, therapy, passive voice.
13 Traditional vs. alternative Medicine, alternative treatments, Eastern medicine (Indian Ayurveda, Chinese), placebo effect, psychosomatic approach.
14 Oral test/Presentation II.
German language:
1. Otorhinolaryngologie. Womit beschäftigt sich ORL? Aufbau und Funktion des Ohres, das Hören. Die Nase – Aufbau und Funktion. Grammatik: Erweiterte Partizipialattribute.
2. H-N-O-Krankheiten. Heuschnupfen, Sinusitis, Angina, Larynxkarzinom, Tinnitus, Otitis media Formen von Sinusitis. Medizinische Berufe. Grammatik: n-Deklination der Substantive.
3. Stomatologie. Aufbau der Zähne, Milchgebiss, Erwachsenengebiss. Grammatik: Pronominaladverbien und Fragewörter.
4. Zahnerkrankungen. Karies, Plaque, Parodontitis und Zahnausfall. Stufen bei Karies. Gespräch beim Zahnarzt. Grammatik: Antonyme
5. Endokrinologie. Die exokrinen und endokrinen Drüsen. Hormone – chemische Botenstoffe des Körpers. Funktion und Wirkung der Hormone. Grammatik: Direkte und indirekte Fragesätze.
6. Stoffwechsel- und Hormonerkrankungen. Schilddrüsenerkrankungen. Zuckerkrankheit (Diabetes mellitus). Fettstoffwechselerkrankungen.
7. Test I.
8. Augenheilkunde. Aufbau des Auges. Funktion des Auges. Sehvorgang, Akkomodation. Grammatik: Nominalisierung von Verben und Adjektiven.
9. Augenkrankheiten & Sehschwäche. Altersbedingte Augenkrankheiten und Augenentzündungen, Sehschwäche – Fehlsichtigkeit (Weit-, Kurz- und Stabsichtigkeit). Refraktive Chirurgie. Grammatik: Passiversatzformen.
10. Dermatologie. Aufbau der Haut. Funktion der Haut. Hauterkrankungen (Hautkrebs, Neurodermitis). Grammatik: Personal-, Reflexiv- und Relativpronomen.
11. Pädiatrie. Kinderheilkunde und Jugendmedizin. Häufige Kinderkrankheiten (Mumps, Röteln, Scharlach, Windpocken). Vorsorgeuntersuchungen für Kinder und Jugendliche. Grammatik: Nebensätze – Temporalsätze.
12. Neurologie. Zentrales und peripheres Nervensystem. Das Gehirn und die Verknüpfungen im Gehirn. Funktionen der Gehirnbereiche. Grammatik: Konjunktiv II.
13. Neurologische Erkrankungen. Erkrankungen des menschlichen Nervensystems. Alzheimer – Krankheit des Vergessens. Ratschläge für Alzheimer-Patienten. Grammatik: Ratschläge für das Lösen eines Problems.
14. Test II.

Recommended literature:
English language:
Džuganová, B. – Gresty, J. (2014) Angličtina pre lekárov a pracovníkov v zdravotníctve. Bratislava : Easton Books.
German language:
Bujalková, M., Barnau, A. (2018) Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta.

Languages necessary to complete the course:
English language/German language

Notes:
To start the classes of Language for Specific Purposes, the minimum required number of attending students is 5.

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: Mgr. Anna Barnau, PhD.

Last change: 21.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚSLME/J-S-VL-077/19	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: 10.

Educational level: I.II.

Prerequisites: JLF.ÚPA/J-S-VL-034/17 - Pathological Anatomy (2)

Course requirements:
Exam

Learning outcomes:
The student has to have basic informations concerning Penal and Civil Code and his/her legal responsibilities in the medical profession. He/she is able to evaluate various forms of violence towards the human beings, even with the application of marginal forensic disciplines (toxicology, serology, criminalistics, balistics, 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 offencers or victims. The information pool of forensic medicine should be applied by the student also in the other medical disciplines.

Class syllabus:
I. Basics of Penal and Civil Code, legal responsibilities in a medical profession.
II. Forensic thanatology.
III. Administrative and practical tasks on the crime scene investigation.
IV. Basics of forensic alcohology 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:
Kol. autorov: Soudní lákařství. Praha, Grada 1999. 600 s.
Kokavec, M. a kol.: Súdne lekárstvo. Martin, Osveta 1987.
172 s.
Novomeský, F.: Drogy. História - medicína - právo. Vrútky,
Advent - Orion Spol s r.o. 1996. 120 s.
Kokavec, M. a kol.: Príručka súdneho lekárstva. Martin,

Osveta 1972. 431 s.
Hajek, S., Štefan, J.: Příčiny, mechanizmus a hodnocení poranění v lékeřské praxi. Praha, Grada 1996. 228 s.
Aktuálna zdravotnícka legislatíva: Zákony č. 576 - 581/2004

Languages necessary to complete the course:
Slovak Language

Notes:

Past grade distribution
Total number of evaluated students: 737

A	ABS0	B	C	D	E	FX
59,02	0,0	23,88	11,53	3,53	1,63	0,41

Lecturers: prof. MUDr. Ľubomír Straka, PhD., MUDr. Veronika Rybárová, PhD., doc. MUDr. Jozef Krajčovič, PhD., doc. MUDr. Martin Janík, PhD., MUDr. Richard Sivulič, PhD.

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDTBC/J-S-VL-115/19	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 disordes, 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 ftizeológia. 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:
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: MUDr. Jaroslav Fábry, PhD.

Last change: 28.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IK1/J-S-VL-091/22	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:
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:
To master basic preventive, diagnostic, therapeutic, rehabilitation and evaluation procedures in the PLDD outpatient and general practitioner outpatient clinics with a focus on geriatric patients.
Control the assessment activity.
To master ethical and legal principles of provided healthcare.
List the most common acute conditions in the PLDD and general practitioners outpatient clinics.
Describe the physical examination in patients.
Understand the specific work of a PLDD doctor and general practitioner (including geriatrics), e.g. preventive examinations, vaccinations, vaccination program, anti-epidemic and sanitary measures, etc.
To know prescription of medicines and medical devices, spa treatment.
Identify violence in all its forms, cooperation with state authorities.
To know the organization and system of work in the outpatient clinic PLDD and general practitioner.

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:

Seifert, B., Beneš, V., Býma, S. et al.: Všeobecné praktické lékařství. 2013. Druhé, doplněné a přepracované vydání. Praha: Nakladatelství Galén, 2013. 673 s.ISBN 978-80-7262-943-3
Dobiáš, V. a kol.: prednemocničná urgentná medicína. 2007. Martin :Vydavateľstvo Osveta, 2007. 381 s. ISBN 978-80-8063-255-7
Muntau, A. C. Pediatrie. Praha: Grada, 2009. 581 s. ISBN 978-80-247-2525-3 Lebl., J. a kol. Preklinická pediatrie. Praha: Galén, karolinum, 2007.248 s.ISBN 80-7262-438-6

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 487

ABS0	M
100,0	0,0

Lecturers: doc. MUDr. Daniela Kantárová, PhD., MPH

Last change: 08.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/J-S-VL-SS3/21	**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. Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2014, 172 s., ISBN 978-80-223-3566-9 Roztočil A. a kol.: Moderní porodnictví. 2. vyd., Grada, 2017, 656 s., ISBN: 978-80-247-5753-7. Dubová O., Zikán M.: Praktické repetitorium gynekologie a porodnictví. Maxdorf. 2. vyd., 2022, 866 s., ISBN: 978-80-7345-716-7. Pilka R.: Gynekologie. Maxdorf, 2017, 332 s., ISBN: 9788073455309. Kolařik D. a kol.: Repetitorium gynekologie. Maxdorf, 2012, 1070 s., ISBN: 9788073452674. Biringer K.: Gynekologická endokrinológia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 285-312. Biringer K.: Gynekologická sonografia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 313-328.	
Languages necessary to complete the course: Slovak.	
Last change: 29.03.2022	
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin	

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.GPK/J-S-VL-062/19	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-022a/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:

Povinná literatúra
Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2014, 172 s., ISBN 978-80-223-3566-9
Hájek, Z., Čech, E., Maršál, K. a kol. Porodnictví. 3. zcela přepracované a doplněné vydání. 1. vyd. Praha: Grada, 2014. 576 s. ISBN 978-80-247-4529-9
Roztočil A. a kol.: Moderní porodnictví. 2. vyd., Grada, 2017, 656 s., ISBN: 978-80-247-5753-7.
Dubová O., Zikán M.: Praktické repetitorium gynekologie a porodnictví. Maxdorf. 2. vyd., 2022, 866 s., ISBN: 978-80-7345-716-7.
Biringer K.: Gynekologická endokrinológia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 285-312.
Biringer K.: Gynekologická sonografia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 313-328.
Odporúčaná literatúra
Danko,J., Mlynček,M. Vybrané kapitoly z gynekológie a pôrodníctva I. Bratislava: UK , l99l. 114 s. skriptá, ISBN 80-223-0376-3
Danko, J. a kol. Vybrané kapitoly z gynekológie a pôrodníctva II. Bratislava: UK, l995. 207 s. skriptá, ISBN 80-2230-904-4
Danko, J. a kol. Vybrané kapitoly z gynekológie a pôrodníctva III. Bratislava: UK , 1999.190 s. skriptá, ISBN 80-2231-358-0
Hájek, Z. a kol. Rizikové a patologické těhotenství. Praha: Grada, 2004. 443 s. ISBN 80-247-0418-8
Kučera, E. Endometrióza. Praha: Maxdorf, 2008. 176 s. ISBN 978-80-7345-144-8
Doležal, A. Porodnické operace. Praha: Grada, 2007. 376 s. ISBN 978-80-247-0881-2
Pilka R.: Gynekologie. Maxdorf, 2017, 332 s., ISBN: 9788073455309.
Kolařik D. a kol.: Repetitorium gynekologie. Maxdorf, 2012, 1070 s., ISBN: 9788073452674.
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:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 854

A	ABS0	B	C	D	E	FX
99,88	0,0	0,12	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Erik Kúdela, PhD., prof. MUDr. Ján Danko, CSc., prof. MUDr. Kamil Biringer, PhD., MUDr. Imrich Žigo, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Štefan Krivuš, CSc., MUDr. Petra Kasajová, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD., MUDr. Tomáš Rokos, PhD., MUDr. Frederika Grochalová, MUDr. Ivan Hruška, MUDr. Martin Jamriška, MUDr. Zuzana Kubisová, MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Lenka Piačková
Last change: 07.04.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.GPK/J-S-VL-063/19	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-062/19 - 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:

Povinná literatúra

Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2014, 172 s., ISBN 978-80-223-3566-9
Hájek, Z., Čech, E., Maršál, K. a kol. Porodnictví. 3. zcela přepracované a doplněné vydání. 1. vyd. Praha: Grada, 2014. 576 s. ISBN 978-80-247-4529-9
Roztočil A. a kol.: Moderní porodnictví. 2. vyd., Grada, 2017, 656 s., ISBN: 978-80-247-5753-7.
Dubová O., Zikán M.: Praktické repetitorium gynekologie a porodnictví. Maxdorf. 2. vyd., 2022, 866 s., ISBN: 978-80-7345-716-7.
Biringer K.: Gynekologická endokrinológia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 285-312.
Biringer K.: Gynekologická sonografia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 313-328.

Odporúčaná literatúra

Danko,J., Mlynček,M. Vybrané kapitoly z gynekológie a pôrodníctva I. Bratislava: UK , l99l. 114 s. skriptá, ISBN 80-223-0376-3
Danko, J. a kol. Vybrané kapitoly z gynekológie a pôrodníctva II. Bratislava: UK, l995. 207 s. skriptá, ISBN 80-2230-904-4
Danko, J. a kol. Vybrané kapitoly z gynekológie a pôrodníctva III. Bratislava: UK , 1999.190 s. skriptá, ISBN 80-2231-358-0
Hájek, Z. a kol. Rizikové a patologické těhotenství. Praha: Grada, 2004. 443 s. ISBN 80-247-0418-8
Kučera, E. Endometrióza. Praha: Maxdorf, 2008. 176 s. ISBN 978-80-7345-144-8
Doležal, A. Porodnické operace. Praha: Grada, 2007. 376 s. ISBN 978-80-247-0881-2
Pilka R.: Gynekologie. Maxdorf, 2017, 332 s., ISBN: 9788073455309.
Kolařik D. a kol.: Repetitorium gynekologie. Maxdorf, 2012, 1070 s., ISBN: 9788073452674.
Cunningham, F. et al.: Williams Obstetrics. Williams Obstetrics 26e. McGraw Hill / Medical; 26th edition, 2022, 1328 s., ISBN-13:ʼ978-1260462739.
Hoffman, B. et al.: Williams Gynecology. McGraw-Hill / Medical; 4th ed., 2020, 1328 s., ISBN-13: 978-1260456868.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 674

A	ABS0	B	C	D	E	FX
99,85	0,15	0,0	0,0	0,0	0,0	0,0

Lecturers: prof. MUDr. Erik Kúdela, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Štefan Krivuš, CSc., MUDr. Imrich Žigo, CSc., MUDr. Petra Kasajová, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD., MUDr. Tomáš Rokos, PhD., prof. MUDr. Kamil Biringer, PhD., MUDr. Frederika Grochalová, MUDr. Ivan Hruška, MUDr. Martin Jamriška, MUDr. Zuzana Kubisová, MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Lenka Piačková

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.GPK/J-S-VL-064/22	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-063/19 - Gynecology and Obstetrics (2) and JLF.GPK/J-S-VL-079/19 - 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:
Povinná literatúra

Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2014, 172 s., ISBN 978-80-223-3566-9
Hájek, Z., Čech, E., Maršál, K. a kol. Porodnictví. 3. zcela přepracované a doplněné vydání. 1. vyd. Praha: Grada, 2014. 576 s. ISBN 978-80-247-4529-9
Roztočil A. a kol.: Moderní porodnictví. 2. vyd., Grada, 2017, 656 s., ISBN: 978-80-247-5753-7.
Dubová O., Zikán M.: Praktické repetitorium gynekologie a porodnictví. Maxdorf. 2. vyd., 2022, 866 s., ISBN: 978-80-7345-716-7.
Biringer K.: Gynekologická endokrinológia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 285-312.
Biringer K.: Gynekologická sonografia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 313-328.
Odporúčaná literatúra
Danko,J., Mlynček,M. Vybrané kapitoly z gynekológie a pôrodníctva I. Bratislava: UK , l99l. 114 s. skriptá, ISBN 80-223-0376-3
Danko, J. a kol. Vybrané kapitoly z gynekológie a pôrodníctva II. Bratislava: UK, l995. 207 s. skriptá, ISBN 80-2230-904-4
Danko, J. a kol. Vybrané kapitoly z gynekológie a pôrodníctva III. Bratislava: UK , 1999.190 s. skriptá, ISBN 80-2231-358-0
Hájek, Z. a kol. Rizikové a patologické těhotenství. Praha: Grada, 2004. 443 s. ISBN 80-247-0418-8
Kučera, E. Endometrióza. Praha: Maxdorf, 2008. 176 s. ISBN 978-80-7345-144-8
Doležal, A. Porodnické operace. Praha: Grada, 2007. 376 s. ISBN 978-80-247-0881-2
Pilka R.: Gynekologie. Maxdorf, 2017, 332 s., ISBN: 9788073455309.
Kolařik D. a kol.: Repetitorium gynekologie. Maxdorf, 2012, 1070 s., ISBN: 9788073452674.
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:
Slovak.

Notes:

Past grade distribution
Total number of evaluated students: 485

A	ABS0	B	C	D	E	FX
98,56	0,0	1,24	0,21	0,0	0,0	0,0

Lecturers: prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Erik Kúdela, PhD., prof. MUDr. Ján Danko, CSc., MUDr. Imrich Žigo, CSc., MUDr. Michaela Hrtánková, PhD., MUDr. Štefan Krivuš, CSc., MUDr. Petra Kasajová, PhD., MUDr. Erik Kozubík, PhD., MUDr. Terézia Pribulová, PhD., MUDr. Tomáš Rokos, PhD., MUDr. Frederika Grochalová, MUDr. Ivan Hruška, MUDr. Martin Jamriška, MUDr. Zuzana Kubisová, MUDr. Zuzana Ondák Laučeková, PhD., MUDr. Lenka Piačková

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KHT/J-S-VL-065/19	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: 9.

Educational level: I.II.

Prerequisites: JLF.IKG/J-S-VL-039/18 - Internal Medicine (1) and JLF.IKG/J-S-VL-038/17 - Internal Medicine Propedeutics (2)

Course requirements:
Student must complete at least 80% of prescribed period of training. Absences from classes must be duly excused.
Assesment of students is performed by written form - test with 10-20 questions; student is required to achieve for success ≥ 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 micrrocytic, macrocytic and normocytic anaemias, treatment od anaemia. Blood count and blood smear - anizocytosis, poikylocytosis, hypochromic red blood cells.
- Disorders of hemostasis: Physiology of hemostasis, primary hemostasis, hemocoagulation, fibrinolysis. Basic examination of hemostasis, importance of coagualation 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: patophysiology, 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 thrombocytosis, 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, comapatibility test, bed-side test, biological exam, indications for treatment with blood products and blood-based derivates, storage and examnitions 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. Kubisz, P. a kol., Hematológia a transfuziológia. Bratislava: Grada Slovakia, 2006. 323 s. ISBN 80-8090-000-0
2. Klener, P. a kol., Vnitřní lékařství. Praha: Galén, 2011. 1174 s. 14. kapitola Hematologie. ISBN 978-80-246-1986-6
3. Češka, R. a kol., Interna. 3. vyd. Praha: Triton, 2020. 1032 s. 16. kapitola Hematologie. ISBN 978-80-755-3782-9
4. Penka M. a kol., Hematologie a transfuzní lékařství I. Praha: Grada, 2011. 421 s. ISBN 9788024734590
5. Penka M. a kol., Hematologie a transfuzní lékařství II. Praha: Grada, 2012. 208 s. ISBN 9788024734606
6. Kliment J. a kol. Základy klinickej onkológie. Martin: Osveta, 2016. 206 s. ISBN 978-80-8063-430-8
7. Kliment J. a kol. Základy klinickej onkológie – špeciálna časť. Martin: Osveta, 2016. 248 s. ISBN 978-80-8063-437-7
8. Haferiach, T. a kol., Kapesní atlas hematologie. Praha: Grada, 2014. 232 s. ISBN 978-80-247-4787-3
9. Kačírková P., Campr V., Hematoonkologický atlas krve a kostní dřeně. Praha: Grada, 2007. 304 s. ISBN 978-80-247-1853-8
10. Pospíšilová Š. a kol. Molekulární hematologie. Praha: Galén, 2013. 316 s. ISBN 978-80-726-2942-8

11. Sakalová A. a kol. Klinická hematológia. Martin: Osveta, 2011. 295 s. ISBN 978-80-806-3324-0
12. Řeháček V a kol. Transfuzní lékařství. Praha: Grada, 2012. 264 s. ISBN 978-80-2474-534-3
13. Štvrtinová V. a kol. Venózny tromboembolizmus, prevencia, liečba. Bratislava: Slovak Academic Press, 2018. 388 s. ISBN 978-80-8960-760-0
14. Kubisz P. a kol. Trombocyty a trombocytopatie. Martin: Osveta, 1987. 300 s.
15. Sokol J. a kol. Priame perorálne antikoagulanciá. Martin: Osveta, 2018. 265 s. ISBN 978-80-8063-463-6
16. Škorňová I. a kol. Hemostáza: laboratórne metódy, ich využitie a interpretácia vo vybraných klinických situáciách. Turany: Tlačiareň P+M, s.r.o. 2020. 287 s. ISBN 978-80-896-947-85
17. Hrušovský Š. a kol. Internistická propedeutika. Bratislava: Herba, 2012, 800 s. ISBN 978-80-8917-172-9
18. Stančiaková Lucia Trombofilné stavy a manažment venózneho tromboembolizmu. Vydavateľstvo Osveta, apríl 2023, ISBN: 978-80-8063-518-3, formát: 17 x 24 cm, 250 strán, štvorfarebná tlač

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 856

A	ABS0	B	C	D	E	FX
69,98	0,0	21,85	6,66	1,05	0,47	0,0

Lecturers: prof. MUDr. Ján Staško, PhD., doc. MUDr. Juraj Sokol, PhD., MBA, MUDr. Lenka Lisá, PhD., MUDr. Lucia Stančiaková, PhD., doc. MUDr. Tomáš Šimurda, PhD., MPH, MUDr. Ivana Plameňová, PhD., MBA, MUDr. Zuzana Jedináková, PhD.

Last change: 06.11.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KHT/J-S-VL-136/20	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:
- 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:
1. Kubisz P. a kol.: Hematológia a transfúziológia: učebnica.-1.vyd.- Bratislava: Grada. 2006.- 323 s., ISBN 80-8090-000-0
2. Mazuch J. a kol.: Tromboembolická choroba venózneho pôvodu.-1.vyd. – Martin: Osveta. 2008. – 251 s., ISBN 978-80-8063-283-0

3. Štvrtinová V. a kol.: Venózny tromboembolizmus: prevencia, diagnostika a liečba. -1.vyd.- Bratislava: Herba, 2009.- 240 s. ISBN 978-80-89171-63-7
4. Štvrtinová V. a kol.: Venózny tromboembolizmus. -2. prepracované a doplnené vyd.- Bratislava: Slovak Academic Press (SAP). 2018.- 388 s.
5. Sokol J. a kol.: Priame perorálne antikoagulanciá. -1.vyd.- Martin: Osveta. 2018 - 265 s.
6. Samoš M. a kol.: Laboratórne monitorovanie, diabetes mellitus a ďalšie faktory ovplyvňujpce účinok antitrombotickej liečby.“ -1.vyd.- Martin : Jozef Chajmík Quick Print , 2019 - 144 s. ISBN 978-80-972594-4-0

Languages necessary to complete the course:
Slovak language

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: prof. MUDr. Ján Staško, PhD., doc. MUDr. Juraj Sokol, PhD., MBA, MUDr. Lenka Lisá, PhD., MUDr. Lucia Stančiaková, PhD., doc. MUDr. Tomáš Šimurda, PhD., MPH

Last change: 08.10.2021

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚHE/J-S-VL-005/25	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: 7

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 conpensatory 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 completition 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 heard 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:

Mescher A.L.: Junqueirovy základy histologie. Galén, 2018, 558 s., ISBN 9788074923241
Sadler T.W.: Langmanova lékařská embryologie. Grada, 2010, 414 s., ISBN 9788024726403
Junqueira L. C., Carneiro J., Kelley R. O.: Základy histológie. Praha H&H, 2002, 502 s., ISBN 80-
8578-737-7
Lüllmann-Rauch R.: Histologie. Grada, 2012, 545 s. ISBN 978-80-247-3729-4
Kapeller, K., Strakele, H.: Cytomorfológia. Martin: Osveta, 1999, 237 s. ISBN 80-88824-79-6
Kapeller, K., Pospíšilová, V.: Embryológia človeka. Martin: Osveta, 2001, 370 s. ISBN 80-8063-072-0
Adamkov M.: Apoptóza a antiapoptotický proteín survivin ako sľubný nádorový biomarker. Rank Germany, 2020, 156 s. ISBN 978-3-9812043-9-1
Adamkov M.: Priečne pruhovaný sval a myofasciálna bolesť hlavy. Druhé doplnené a prepracované vydanie. Vydavateľstvo P+M Turany. 2020, 111 s. ISBN: 978-80-89694-69-3

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 10

A	ABS0	B	C	D	E	FX
70,0	10,0	20,0	0,0	0,0	0,0	0,0

Lecturers: RNDr. Veronika Mešťanová, PhD., doc. MVDr. Soňa Bálentová, PhD., Ing. Veronika Cígerová, PhD., doc. RNDr. Mária Kovalská, PhD., Ing. Bibiana Krajňáková, PhD., RNDr. Lenka Lacková, PhD., Mgr. Zuzana Podhradská

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚHE/J-S-VL-006/17	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: 8

Recommended semester: 3.

Educational level: I.II.

Prerequisites: JLF.ÚHE/J-S-VL-005/15 - Histology and Embryology (1) and JLF.ÚA/J-S-VL-002/24 - Anatomy (2)

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 conpensatory 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, BALT, 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, hormonale 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, sperma, 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:

Mescher A.L.: Junqueirovy základy histologie. Galén, 2018, 558 s., ISBN 9788074923241
Sadler T.W.: Langmanova lékařská embryologie. Grada, 2010, 414 s., ISBN 9788024726403
Junqueira L. C., Carneiro J., Kelley R. O.: Základy histológie. Praha H&H, 2002, 502 s., ISBN 80-
8578-737-7
Lüllmann-Rauch R.: Histologie. Grada, 2012, 545 s. ISBN 978-80-247-3729-4

Kapeller, K., Strakele, H.: Cytomorfológia. Martin: Osveta, 1999, 237 s. ISBN 80-88824-79-6
Kapeller, K., Pospíšilová, V.: Embryológia človeka. Martin: Osveta, 2001, 370 s. ISBN 80-8063-072-0
Adamkov M.: Apoptóza a antiapoptotický proteín survivin ako sľubný nádorový biomarker. Rank Germany, 2020, 156 s. ISBN 978-3-9812043-9-1
Adamkov M.: Priečne pruhovaný sval a myofasciálna bolesť hlavy. Druhé doplnené a prepracované vydanie. Vydavateľstvo P+M Turany. 2020, 111 s. ISBN: 978-80-89694-69-3

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 1196

A	ABS0	B	C	D	E	FX
50,33	0,0	16,72	16,64	8,7	6,52	1,09

Lecturers: RNDr. Veronika Mešťanová, PhD., prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Bálentová, PhD., Ing. Veronika Cígerová, PhD., doc. RNDr. Mária Kovalská, PhD., Ing. Bibiana Krajňáková, PhD., RNDr. Lenka Lacková, PhD., Mgr. Zuzana Podhradská

Last change: 13.09.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚSLME/J-S-VL-141/22	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:
• 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, O2, N2, He, CO2 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. Potápačská medicína. Martin: Vyd. Osveta, 2013, s. 415, ISBN 9788080633950
Hájek, M. a kol. Hyperbarická medicína. Praha: Mladá fronta, 2017, s. 453, ISBN 9788020442352

Harch, P.G., McCullough, V. Kyslíková revolúcia. Hyperbarická oxygenoterapia. New York: Hatherleigh Press, 2007, s. 232, ISBN 9788089322046

Languages necessary to complete the course:
Slovak language

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

Past grade distribution
Total number of evaluated students: 15

A	ABS0	B	C	D	E	FX
66,67	33,33	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: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚMI/J-S-VL-103/19	**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.ÚLBl/J-S-VL-012/21 - Medical Biology and Genetics (1)	
Course requirements: - it is obligatory to be present at practicals (1 absence is tolerated) - 1 test during the semester - oral presentation according the schedule + credit test Exam: Oral exam consists of 2 questions. Each one is evaluated separatly. No question could be graduated Fx for successfull exam. Achievement of at least 60% from the combined mid#semester and credit test scores. Scale of assessment (preliminary/final): 0%/ 100%	
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 immunoblobulins, their function, mechanisms of antibody production, idiotypes, allotype, isotypes. The reached knowledges enable to understand the problems of vaccination, types of vaccines, hypersensitivity, autoimmunity and immunodeficiencies. Transplantation and tumor immunity are covered at introductional level. The students are able to understand, indicate and interprete the basical immunological diagnostical tests and procedures. The gained information is the base for further study of different clinical branches, that can be completed in the study of clinical immunology in the 10th semester.	
Class syllabus: Introductiom to immunology Discrimination between self and non self Antigens a receptors Terminology Nonspecific immunity – bariers, 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: Bednář M a kol., Lékařská mikrobiologie. Bakteriologie, virologie, parazitologie. Praha: Marvil 1995; 558 s. Votava M. Lékařská mikrobiologie - obecná. Brno: Neptun 2005; 351 s.	

Buc M a kol. Imunológia. Bratislava: UK 1999; 248 s. Neuschlová Martina, Nováková Elena, Kompaníková Jana. Imunológia - ako pracuje imunitný systém. Martin : Univerzita Komenského v Bratislave Jesseniova lekárska fakulta v Martine 2017; 189 s. ISBN 978-80-8187-031-6. Neuschlová M, Nováková E, Kompaníková J. Abeceda imunológie - terminologický slovník. UK v Bratislave JLF UK v Martine 2016, 60 s. ISBN 978-80-8187-016-3. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=344 Neuschlová M, Nováková E, Kompaníková J. Návody na praktické cvičenia z imunológie. UK v Bratislave JLF UK v Martine 2016; 114 s. ISBN 978-80-8187-017-0. Učebné texty na MEFANETe http://portal.jfmed.uniba.sk/lekarske-discipliny.php?disid=119 a web stránke Ústavu mikrobiológie a imunológie Abass AK a kol. Basic Immunology. Philadelphia: Elsevier, 2012. 320 s. Murray PR et al. Medical microbiology. Philadelphia: Elsevier, 2013. 874 s. Doan T. et al. Immunology, Lippincottś Illustrated Reviews, LWW, 2008. 334 s. Greenwood D et al. Lékařská mikrobiologie. Praha: Grada 1999. 686 s. Greenwood D et al. Medical microbiology. Edinburgh: Elsevier 2012. 778 s. Nováková E a kol. Lekárska vakcinológia nielen pre medikov. Banská Bystrica: PRO, 2007. 141s.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 808

A	ABS0	B	C	D	E	FX
37,62	0,0	31,93	19,93	7,8	2,48	0,25

Lecturers: prof. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., doc. MUDr. Vladimíra Sadloňová, PhD., MUDr. Janka Jakušová, PhD.

Last change: 09.02.2026

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KICM/J-S-VL-067/19	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: 9.

Educational level: I.II.

Prerequisites: JLF.ÚMI/J-S-VL-018/17 - Microbiology (2) and JLF.IKG/J-S-VL-038/17 - 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 studend understand of the basic characterics of infectious diseases, transmission, clinical manifestation, diagnosis, differential diagnosis, treatment and prophylaxis.

Class syllabus:
Lectures
Viral hepatitis syndrome
HIV
Intestinal infections
Nosocomial infections
Viral hemorrhagic fevers and other arboviruses
Travel medicine
Neuroinfections, CNS infections
Seminares
- Differential diagnosis of fever
- Anti-infective therapy
- Viral hepatitis syndrome
- Meningitis and meningoencephalitis
- Sepsis
- Differential diagnosis of diarrhoea
- Infections caused by herpes viruses
- Soft tissue infections
- Bone and joint infections
- Differential diagnosis of exanthems

- Nosocomial and urinary infections
- Selected parasitic infections
- Zoonoses
- Lymphadenopathy
- HIV/AIDS

Recommended literature:

Jiří Beneš, Infectious Diseases, Galén, 2010, 651p.
Jiří Beneš, Antibiotics, Grada, 2018, 600p.
Havlík, J. et al .: Infectious Diseases. Galén Prague, 2002, 186p.
Szilágyiová, M., Šimeková, K .: Infektológia pre prax. HERBA Bratislava, 2010, 292p.
Szilágyiová, M .: Imported parasitic infections. BERISS Martin, 1999, 102p.

Languages necessary to complete the course:
slovenský

Notes:

Past grade distribution
Total number of evaluated students: 846

A	ABS0	B	C	D	E	FX
71,75	0,0	15,6	9,81	2,01	0,71	0,12

Lecturers: doc. MUDr. Katarína Šimeková, PhD., MUDr. Róbert Rosoľanka, PhD., MUDr. Tatiana Hurtová, PhD., MSc., MUDr. Martin Sučík

Last change: 09.09.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDAIM/J-S-VL-111/19	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 accomplisment 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 participance 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:

Slovak language for students studying in Slovak language.
English for students studying in English.

Notes:

Past grade distribution

Total number of evaluated students: 202

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 Nosáľ, PhD., MUDr. Tomáš Bělohlávek, PhD., MUDr. Marián Fedor, PhD., MUDr. Alžbeta Kmecová, MUDr. Zuzana Kubisová, PhD.

Last change: 13.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/J-S-VL-SS2/21	**Course title:** Internal Medicine
Number of credits: 7	
Educational level: I.II.	
Course requirements: The state examination may be taken by a student who has completed 100% of the pre-state practice.	
Learning outcomes: By completing the course, the student acquires fundamental knowledge and practical skills covering the entire field of internal medicine. The aim is for the graduate of the course to be able to manage a patient in various settings, apply the acquired theoretical knowledge, analyze, establish a working diagnosis, plan examinations, and recommend appropriate treatment.	
Class syllabus: State exam consists of practical exam (medical record) and oral exam (2 theoretical questions). State Examination – consists of a practical examination (patient medical record) and a theoretical examination (2 theoretical questions). Practical part of the state examination: At one of the designated teaching departments of JLF CU (1st Department of Internal Medicine, Department of Internal Medicine – Gastroenterology, Department of Occupational Medicine and Toxicology, Department of Tuberculosis and Respiratory Diseases, Department of Hematology and Transfusion Medicine), the student performs the practical part according to the instructions of the responsible teaching staff member, a member of the examination board. The practical part is usually carried out the day before the theoretical part takes place. It consists of a complete patient examination and preparation of the medical record, including taking the medical history, conducting a physical examination, establishing a differential diagnosis, proposing further examinations, and suggesting treatment. Theoretical part of the state examination: Conducted at the respective clinic (1st Department of Internal Medicine, Department of Internal Medicine – Gastroenterology) before the state examination boards. From the designated topics, the student draws two theoretical questions. After answering all the questions and considering the result of the practical examination, the board recommends to the chairperson of the board the overall assessment. A1 Bolesti na hrudníku – dif. dg. A2 Dýchavica – dif. dg. A3 Opuchové stavy – dif. dg. A4 Poruchy vedomia (synkopy, komatózne stavy) – príčiny, dif. dg., liečba. A5 Zástava srdca. Základy kardiopulmo-cerebrálnej resuscitácie. A6 Vyšetrovacie metódy v kardiológii. A7 Akútne zlyhanie srdca – etiopatogenéza, klinika, liečba. A8 Chronické zlyhanie srdca – etiopatogenéza, klinika, diagnostika, liečba. A9 Dysrytmie (poruchy tvorby a vedenia vzruchov) – klasifikácia, klinika, diagnostika, liečba. A10 Chronická ischemická choroba srdca.	

A11 Akútny koronárny syndróm. Infarkt myokardu.
A12 Zápalové ochorenia srdca (endokarditída, myokarditída, perikarditída).
A13 Kardiomyopatie – klasifikácia, klinika, dif. dg., liečba.
A14 Mitrálne chlopňové chyby – etiopatogenéza, klinika, dg., liečba.
A15 Aortálne chlopňové chyby – etiopatogenéza, klinika, dg., liečba.
A16 Artériová hypertenzia – epidemiológia, etiopatogenéza, klasifikácia, klinika, diagnostika, liečba.
A17 Sekundárna hypertenzia – epidemiológia, etiopatogenéza, klasifikácia, klinika, liečba.
A18 Hypertenzná kríza – príčiny, klinické prejavy, liečba.
A19 Ischemická choroba dolných končatín.
A20 Povrchové tromboflebitídy a chronická venózna insuficiencia žíl dolných končatín.
A21 Venózny tromboembolizmus.
A22 Šok – etiopatogenéza, klasifikácia, dif. dg., klinika, liečba.
A23 Primárna a sekundárna prevencia kardiovaskulárnych chorôb.
II
B1 Kašeľ – príčiny, dif. dg.
B2 Hemoptoe – etiológia, diagnostický a liečebný manažment.
B3 Akútna bronchitída, bronchiolitída.
B4 Chronická obštrukčná choroba pľúc.
B5 Priedušková astma.
B6 Zápaly pľúc.
B7 Sarkoidóza.
B8 Idiopatické intersticiálne pneumónie.
B9 Chronická respiračná insuficiencia – príčiny, klinický obraz, liečba.
B10 Fluidothorax – etiologická dif. dg., liečba.
B11 Pneumothorax, nádory pleury.
B12 Choroby mediastína.
B13 Tuberkulóza.
B14 Bronchogénny karcinóm.
B15 Spánkové poruchy dýchania – klinický obraz, diagnostika, liečba.
B16 Pneumokoniózy. Silikóza pľúc a uhľokopská pnemokonióza. Ochorenia
z azbestu.
B17 Hypersenzitívna pneumonitída.
B18 Profesionálne alergické respiračné ochorenia – asthma bronchiale, professionale, rhinitis alergica.
III
C1 Bolesti brucha – dif. dg.
C2 Všeobecná symptomatológia chorôb horného GITu.
C3 Všeobecná symptomatológia chorôb dolného GITu.
C4 Krvácanie z tráviaceho traktu – príčiny, dif. dg., liečba.
C5 Diagnostické metódy v gastroenterológii.
C6 Choroby ezofágu.
C7 Zápalové ochorenia žalúdka.
C8 Vredová choroba žalúdka a dvanástnika.
C9 Nádory pažeráku a žalúdka.
C10 Malabsorpčný syndróm, celiakia.
C11 Idiopatické črevné zápaly.
C12 Funkčné poruchy zažívacieho traktu.
C13 Nádory hrubého čreva a konečníka.

C14 Ikterus - dif. dg.
C15 Hepatomegália a splenomegália – etiopatogenéza, dif. dg.
C16 Portálna hypertenzia. Ascites – etiopatogenéza, dif. dg., liečba.
C17 Hepatálna kóma – patofyziológia, klinika, terapia.
C18 Akútna a chronická hepatitída. Toxické poškodenie pečene.
C19 Cirhóza pečene.
C20 Ochorenia žlčníka a žlčových ciest.
C21 Nádory pečene a žlčových ciest.
C22 Nádory pankreasu.
C23 Akútna pankreatitída.
C24 Chronická pankreatitída.
IV
D1 Funkčné a morfologické vyšetrenie obličiek.
D2 Proteinúria, hematúria, leukocytoúria – dif. dg.
D3 Akútne poškodenie obličiek a chronická obličková choroba (Akútna a chronická renálna insuficiencia)
D4 Akútna a chronická glomerulonefritída.
D5 Tubulointersticiálne nefritídy.
D6 Nefrotický syndróm.
D7 Nádory obličiek a močových ciest.
D8 Poruchy vodného metabolizmu (dehydratácia).
D9 Poruchy minerálového metabolizmu (sodík, draslík).
D10 Poruchy acidobázickej rovnováhy (acidóza, alkalóza).
D11 Otravy – definícia, rozdelenie, cesty vstupu toxínu do organizmu, metabolizmus toxínu, vylučovanie, prvá pomoc, všeobecné zásady diagnostiky a liečby.
D12 Najčastejšie otravy liekmi - kyselina acetylsalicylová, paracetamol, fenobarbital, benzodiazepíny, tricyklické antidepresíva.
D13 Otravy kokaínom, metamfetamínom, morfínom, kanabinoidmi.
D14 Otrava metylalkoholom, alkoholom a etylénglykolom.
D15 Otrava hubami.
D16 Otrava organofosfátovými a karbamátovými insekticídmi.
D17 Ochorenia z benzénu a jeho homológov.
D18 Otravy CO, kyanovodíkom a kyanidmi.
D19 Otrava kovmi (olovom, ortuťou, chrómom, arzénom).
D20 Poškodenie ionizujúcim žiarením – akútna choroba z ožiarenia, nádory.
D21 Choroba z vibrácií, vazoneuróza - etiopatogenéza, diagnostika a liečba.
D22 Ochorenia pohybového aparátu z dlhodobého nadmerného a jednostranného zaťaženia – etiopatogenéza, diagnostika a liečba.
V
E1 Diabetes mellitus - epidemiológia, etiopatogenéza, klasifikácia, klinika, dg.
E2 Diabetes mellitus - terapia, prevencia.
E3 Akútne a chronické komplikácie diabetes mellitus.
E4 Dyslipidémie.
E5 Obezita. Metabolický syndróm.
E6 Dna a hyperurikemický syndróm.
E7 Poruchy výživy (podvýživa, kachexia). Zásady perenterálnej a enterálnej výživy.
E8 Choroby hypothalamu a hypofýzy.
E9 Tyreotoxikóza.
E10 Hypotyreóza.

E11 Zápalové a nádorové ochorenia štítnej žľazy.
E12 Choroby prištítnych teliesok. Poruchy kalciového metabolizmu.
E13 Ochorenia nadobličiek.
E14 Osteoporóza.
E15 Terapeutické využitie glukokortikoidov - indikácie, kontraindikácie, vedľajšie účinky a ich prevencia.
VI
F1 Anémie - diagnostika a liečba.
F2 Vrodené a získané krvácavé stavy.
F3 Život ohrozujúce krvácanie – základné východiská, diagnostika a liečba.
F4 Vrodené a získané trombobofilné stavy.
F5 Zásady protitrombotickej (trombolytickej, antikoagulačnej a protidoštičkovej) liečby.
F6 Myeloproliferatívne neoplázie.
F7 Akútne leukémie, myelodysplastický syndróm a aplastická anémia.
F8 Uzlinový syndróm a lymfoproliferatívne ochorenia. Malígne lymfómy.
F9 Mnohopočetný myelóm.
F10 Transfúzia krvi (indikácie, kontraindikácie, zabezpečenie kompatibility, technika transfúzie a komplikácie).
F11 Reumatická horúčka.
F12 Reumatoidná artritída.
F13 Difúzne ochorenia spojiva (systémový lupus erythematosus).
F14 Sepsa.
F15 Horúčkové stavy - dif. dg.
F16 Zásady liečby antibiotikami - rozdelenie, indikácie, komplikácie.
F17 Všeobecné a špecifické príznaky zhubných nádorových ochorení.
F18 Problematika AIDS.

State exam syllabus:

Recommended literature:

Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 1. diel, 2004, 206 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 2. diel, 2004, 254 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 3. diel, 2004, 322 s.
Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – zimný 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.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – letný semester. P+M
s.r.o. Turany 2021, 270 s.
Klener P.
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka R. a kol.
Interna. (3. aktualizované vydání) Praha: Triton, 2020, 855 s.
Souček M. a kol.
Vnitřní lékařství 1. díl. Praha: Grada, 2025. 1560 s.

Marek J. a kol.
Markova farmakoterapie vnitřních nemocí. Praha: Grada, 2019. 896 s. ISBN
Špinar J. a kol.
Propedeutika a vyšetřovací metody vnitřních nemocí. Praha: Grada, 2008, 255 s.
Klener P. a kol.
Propedeutika ve vnitřním lékařství. e-kniha. Praha: Galén, 2012

Languages necessary to complete the course:
Slovak lenguage.

Last change: 26.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IKG/J-S-VL-039/18	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-037/17 - Internal Medicine Propedeutics (1)

Course requirements:
Credit test

Learning outcomes:

Class syllabus:
Lectures
Ischemic heart disease.
Hypertension. Differential diagnosis of primary and secondary hypertension.
Inflammatory diseases of the heart (endocarditis, myocarditis, pericarditis).
Cardiomyopathies.
Most important heart valve disorders (inborn, acquired). Neurocirculatory asthenia.
Systolic and diastolic heart failure.
Arrhythmias.
Thromboembolic disease.
Diseases of the arteries and veins of the extremities. New trends in the treatmen. Atherosclerosis.
Asthma bronchiale.
Chronic obstructive pulmonary disease (COPD).
Lung tumors.
Diseases of pleura. Diseases of mediastinum.
Sarcoidosis. Fibrosis. Lung mycoses. Parasitary diseases of lungs.
Disorders of the body fluids volume and mineral balance. Disorders of electrolytes and acidobasis balance.
Practical lessons
Ischemic heart disease, myocardial infarction. Examination of patient. Evaluation of pathological ECG curves.
Hypertension disease - primary, secondary hypertension. Principles of antihypertensive therapy. Examination of the patient.
Inflammatory heart diseases (endocarditis, myocarditis, pericarditis). Cardiomyopathies. Most important heart valve disorders. Examination of the patient.
Systolic and diastolic heart failure. Arrhythmias. Demonstration of

the patients. Evaluation of pathological ECG curves.
Examination of the patients with diseases of the arteries and veins in the extremities. Peripheral atherosclerosis of lower extremities. Thromboembolic disease.
Functional examination of lungs. Practical demonstration. Examination of the patient with chronic bronchitis, asthma bronchiale.
Examination of patients with pneumonia and lung tumors.

Recommended literature:
Ďuriš,I. a kol. : Princípy internej medicíny 1.2.3.Bratislava,
SAP 2001. 2951 s.
Hrnčiar, J. a kol. : Endokrinné a hormonálnometabolické
choroby. Banská Bystrica, CentroMedian
2000. 308 s.
Mařatka,Z. a kol., Praha, Karolinum, 1999, 490 s.

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 977

A	ABS0	B	C	D	E	FX
52,3	0,0	33,98	10,75	2,56	0,41	0,0

Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, doc. MUDr. Robert Vyšehradský, PhD., prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Peter Galajda, CSc., prof. MUDr. Matej Samoš, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Michal Mokáň, PhD., doc. MUDr. Jurina Sadloňová, CSc., MUDr. Anna Ružinák Bobčáková, PhD., MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ján Lazor, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, PhD., MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, PhD., doc. MUDr. Ľubomír Skladaný, PhD., MUDr. Jakub Benko, PhD., MUDr. Tímea Blichová, doc. MUDr. Matej Vnučák, PhD., MUDr. Karol Graňák, PhD., MUDr. Lucia Kapičáková, MUDr. Lívia Jamrišková, PhD., MUDr. Patrícia Kleinová, MUDr. Andrej Kollár, MUDr. Juraj Krivuš, PhD., MUDr. Patrik Lecký, MUDr. Zuzana Miertová, MUDr. Stanislava Mikulová, PhD., MUDr. Martin Jozef Péč, PhD., doc. MUDr. Ivana Ságová, PhD., MUDr. Terézia Kozáková, MUDr. Mária Kyselová, MUDr. Matthea Jančáriková, MUDr. Jakub Jurica, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IKG/J-S-VL-040/18	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-038/17 - Internal Medicine Propedeutics (2) and JLF.IKG/J-S-VL-039/18 - Internal Medicine (1)

Course requirements:
To obtain credit it is necessary to take part on 6 practicals.
2 credit tests

Learning outcomes:

Class syllabus:
Lectures
Diabetes mellitus - principles of the diagnostics and therapy.
chronic complications of diabetes mellitus.
Disorders of lipid metabolism - dyslipoproteinaemias.
Inflammatory and tumorous diseases of the oesophagus, stomach and duodenum.
ULcer disease of stomach and duodenum, etiopathogenesis, clinical sings, complications, functional diagnostics, therapy and life-regimen.
Inflammatory and tumorous diseases of small and large intestine.
Chronic inflammatory and degenerative diseases of liver, cirrhosis and carcinoma of the liver, etiopathogenesis, clinical sings and therapy.
diseases of the gallbladder, biliar ducts (lithiasis, inflammatory complications and tumors), inflamatory and tumorous diseases of pancreas.
Diseases of the thyroid gland.
Diseases of the suprarenal glands.
disorders of proteinand aminoacids metabolism. Gout. Porphyria. Metabolic osteopathies.
Principles of metabology, metabolic diseases, organisation and importance of metabolic units: basics of parenteral and enteral treatment.
Gerontology. Clinical picture of interneal diseases in old age, risk geronts and pharmacotherapy in old age.
Clinical genetics.
Practical lessons
Diabetes mellitus - principles of diagnostics and therapy. Examination of the patients with chronic complications of diabetes mellitus.

Diseases of small and large intestine. Non- specific intestinal inflammations - practical trainig of indagation, demonstration of rectoscopy, colonoscopy.
Diseases of liver, biliar and pancreas, practical evaluation of the results of examinations.
diseases of oesophagus, stomach, duodenum. Ulcer disease of stomach and duodenum, practical demonstrations of fibroscopy.
Diseases of hypophysis and thyroid and adrenal gland. Examination of the patients with the endocrine diseases.
Nutritional disorders - malnutrition. Principles of parenteral and enteralnutrition. Organisation of metabolic unit.
Basic examination methods in genetics. (Department of clinical genetics.)

Recommended literature:

Mokáň, M. a kol. : Vnútorné lekárstvo I. Bratislava: UK, 2004, 206 s.
ISBN 80-223-1893-0
Mokáň, M. a kol. : vnútorné lekárstvo 2. Bratislava: UK, 2005.
Mokáň, M. a kol. : Vnútorné lekárstvo 3. Bratislava: UK 2005. 322 s.
Klener, P. a kol. : vnitřní lékařství. Praha: Galén, Karolinum, 2011. 1174 s.
ISBN 978-80-7262-705-9
Souček, M. a kol. : Vnitřní lékařství. Praha : Grada, 2011. 1808 s.
ISBN 978-80-247-2110-1

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 858

A	ABS0	B	C	D	E	FX
57,11	0,0	31,47	9,32	1,86	0,23	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 Ružinák Bobčáková, PhD., MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ján Lazor, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, PhD., MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, PhD., doc. MUDr. Ľubomír Skladaný, PhD., MUDr. Jakub Benko, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Michal Mokáň, PhD., MUDr. Martin Jozef Péč, PhD., MUDr. Tímea Blichová, MUDr. Milan Dragula, PhD., MUDr. Karol Graňák, PhD., MUDr. Lucia Kapičáková, MUDr. Lívia Jamrišková, PhD., MUDr. Patrícia Kleinová, MUDr. Miloš Kňazeje, PhD., MUDr. Andrej Kollár, MUDr. Juraj Krivuš, PhD., MUDr. Patrik Lecký, MUDr. Martin Migra, PhD., MUDr. Stanislava Mikulová, PhD., doc. MUDr. Ivana Ságová, PhD., prof. MUDr. Matej Samoš, PhD., MUDr. Matthea Jančáriková, MUDr. Jakub Jurica, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IK1/J-S-VL-041/19	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-039/18 - Internal Medicine (1)

Course requirements:
Attendance of at least 80% of practical sessions. During the credit week, it is possible to make up for an excused absence (up to 20%). Making up for missed practical sessions (in accordance with the Study Regulations of JLF CU and the Decree of the Dean of JLF CU in Martin) is possible up to 20% of the total number, with the consent of the head of the department. In serious and justified cases, if a student misses more than 20% of the compulsory instruction, the Dean of the Faculty shall decide on granting an excuse on the proposal of the head of the department.
The final grade in the subject shall be awarded to the student based on the successful completion of the written assessment and attendance at the practical sessions.
Student evaluation is carried out in written form, with a minimum pass mark of 60%.
Grading scale: A: 95–100%, B: 85–94%, C: 75–84%, D: 65–74%, E: 60–64%, FX: below 60%
Active participation in practical sessions
Weight of continuous/final evaluation: 100/0

Learning outcomes:
By completing the course, the student acquires fundamental knowledge and practical skills in the field of acute conditions in internal medicine and its individual subspecialties, such as cardiology, gastroenterology and hepatology, endocrinology, diabetology, disorders of metabolism and nutrition, nephrology, hematology, as well as in the area of comatose states. The student also acquires basic knowledge of the management of oncology patients.

Class syllabus:
Examination of patients with acute and chronic glomerulonephritis.
Examination of patients with tubulointerstitial nephritis.
Functional diagnostic methods in nephrology.
Examination of patients with chronic renal insufficiency. Uremic syndrome.
Indications for acute hemodialysis and hemoperfusion.
Organization of a dialysis unit, examination and care of patients in a chronic dialysis program. Peritoneal dialysis and other elimination methods.
Acute intoxications – diagnosis, differential diagnosis, general principles of treatment.
Disorders of calcium metabolism.

Osteoporosis. Examination of patients in osteology.
Principles of glucocorticoid therapy.
Issues of obesity, dyslipidemias, and prediabetic states.
Metabolic syndrome and risk factors for cardiovascular diseases.
Dehydration. Principles of treatment.
Disorders of the internal environment – metabolic and mineral imbalance.
Examination of patients with septic conditions, differential diagnosis of febrile states.
Principles of antibiotic therapy

Recommended literature:

Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 1. diel, 2004, 206 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 2. diel, 2004, 254 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 3. diel, 2004, 322 s.
Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – zimný 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.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – letný semester. P+M
s.r.o. Turany 2021, 270 s.
Klener P.
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka R. a kol.
Interna. (3. aktualizované vydání) Praha: Triton, 2020, 855 s.
Souček M. a kol.
Vnitřní lékařství 1. díl. Praha: Grada, 2025. 1560 s.
Marek J. a kol.
Markova farmakoterapie vnitřních nemocí. Praha: Grada, 2019. 896 s. ISBN
Špinar J. a kol.
Propedeutika a vyšetřovací metody vnitřních nemocí. Praha: Grada, 2008, 255 s.
Klener P. a kol.
Propedeutika ve vnitřním lékařství. e-kniha. Praha: Galén, 2012
Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022

Languages necessary to complete the course:
slovak lenguage

Notes:

Past grade distribution
Total number of evaluated students: 853

A	ABS0	B	C	D	E	FX
51,11	0,0	35,05	9,96	2,93	0,94	0,0

Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Tomáš Bolek, PhD., prof. MUDr. Matej Samoš, PhD., MUDr. Matej Stančík, PhD., MUDr. Michal Mokáň, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, prof. MUDr. Rudolf Hyrdel, CSc., MUDr. Milan Dragula, PhD., MUDr. Karol Graňák,

PhD., MUDr. Lívia Jamrišková, PhD., doc. MUDr. Matej Vnučák, PhD., MUDr. Miloš Kňazeje, PhD., MUDr. Juraj Krivuš, PhD., MUDr. Martin Migra, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Martin Schnierer, PhD., doc. MUDr. Ivana Ságová, PhD., prof. MUDr. Ivana Dedinská, PhD., doc. MUDr. Daniel Čierny, PhD., MUDr. Tímea Blichová, MUDr. Lucia Kapičáková, MUDr. Ľuboš John, MUDr. Patrícia Kleinová, MUDr. Matthea Jančáriková, MUDr. Jakub Jurica, PhD.

Last change: 26.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IK1/J-S-VL-042/19	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-041/19 - Internal Medicine (3)

Course requirements:
Attendance of at least 80% of practical sessions. During the credit week, it is possible to make up for an excused absence (up to 20%). Making up for missed practical sessions (in accordance with the Study Regulations of JLF CU and the Decree of the Dean of JLF CU in Martin) is possible up to 20% of the total number, with the consent of the head of the department. In serious and justified cases, if a student misses more than 20% of the compulsory instruction, the Dean of the Faculty shall decide on granting an excuse on the proposal of the head of the department.
The final grade in the subject shall be awarded to the student based on the successful completion of the written assessment, oral exam and attendance at the practical sessions.
Student evaluation is carried out in written and oral form, with a minimum pass mark of 60%.
Grading scale: A: 95–100%, B: 85–94%, C: 75–84%, D: 65–74%, E: 60–64%, FX: below 60%
Active participation in practical exercises is mandatory. Oral exam.
Weight of continuos/final evaluation: 10/90

Learning outcomes:
By completing the course, the student acquires fundamental knowledge and practical skills in the field of acute conditions in internal medicine and its individual subspecialties, such as cardiology, gastroenterology and hepatology, endocrinology, diabetology, disorders of metabolism and nutrition, nephrology, hematology, as well as in the area of comatose states. The student also acquires basic knowledge of the management of oncology patients.

Class syllabus:
Acute conditions in gastroenterology – subileus states.
Gastrointestinal bleeding.
Acute conditions in endocrinology.
Acute conditions in nephrology – acute kidney injury.
Acute conditions in diabetology.
Acute conditions in hematology – hemorrhagic states.
Comatose states.
Systemic connective tissue diseases.
Acute conditions in cardiology – organization of a coronary care unit.

Functional diagnostics in cardiology – interpretation of findings.
Cardiogenic shock and the basics of cardiopulmonary resuscitation.
Principles of pharmacotherapy in cardiology.
Acute conditions in internal medicine – case studies.
Examination and care of oncology patients.
Liver Failure – Causes, Diagnosis, and Treatment

Recommended literature:

Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 1. diel, 2004, 206 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 2. diel, 2004, 254 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 3. diel, 2004, 322 s.
Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – zimný 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.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – letný semester. P+M
s.r.o. Turany 2021, 270 s.
Klener P.
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka R. a kol.
Interna. (3. aktualizované vydání) Praha: Triton, 2020, 855 s.
Souček M. a kol.
Vnitřní lékařství 1. díl. Praha: Grada, 2025. 1560 s.
Marek J. a kol.
Markova farmakoterapie vnitřních nemocí. Praha: Grada, 2019. 896 s. ISBN
Špinar J. a kol.
Propedeutika a vyšetřovací metody vnitřních nemocí. Praha: Grada, 2008, 255 s.
Klener P. a kol.
Propedeutika ve vnitřním lékařství. e-kniha. Praha: Galén, 2012
Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022

Languages necessary to complete the course:
Slovak lenguage.

Notes:

Past grade distribution
Total number of evaluated students: 667

A	ABS0	B	C	D	E	FX
57,87	0,0	25,19	11,09	3,0	2,7	0,15

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., MUDr. Lívia Jamrišková, PhD., MUDr. Michal Mokáň, PhD., doc. MUDr. Peter Bánovčin, PhD., MBA, doc. MUDr. Ivana Ságová, PhD., MUDr. Matej Stančík, PhD., MUDr. Milan Dragula, PhD., MUDr. Karol Graňák, PhD., doc. MUDr. Matej Vnučák, PhD., MUDr. Miloš Kňazeje, PhD., MUDr. Juraj Krivuš, PhD., MUDr. Martin Migra, PhD., MUDr. Stanislava Mikulová, PhD., prof.

MUDr. Ivana Dedinská, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matthea Jančáriková, MUDr. Jakub Jurica, PhD.
Last change: 26.08.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IK1/J-S-VL-043/22	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-042/19 - Internal Medicine (4) and JLF.IKG/J-S-VL-054/22 - Summer Practice-Internal Medicine and JLF.KPF/J-S-VL-061/19 - Phthisiology and JLF.KHT/J-S-VL-065/19 - Hematology and Transfusiology and JLF.KPLT/J-S-VL-074/19 - Occupational Medicine and Toxicology and JLF.KICM/J-S-VL-067/19 - 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:
By completing the course, the student acquires fundamental knowledge and practical skills covering the entire field of internal medicine. The aim is for the graduate of the course to be able to manage a patient in various settings, apply the acquired theoretical knowledge, analyze, establish a working diagnosis, plan examinations, and recommend appropriate treatment.

Class syllabus:
As part of the pre-state block practice, the student performs practical activities under the supervision of the attending physician, within the scope of duties of a junior doctor. The student is assigned a hospital room, admits and discharges patients, and proposes diagnostic and therapeutic procedures. They improve their practical skills and the management of diagnostic–therapeutic processes in hospitalized patients with various internal diseases. In addition, they participate in ward rounds and special seminars.
The practice lasts 9 weeks, consisting primarily of a 5-week placement at the 1st Department of Internal Medicine and the Department of Internal Medicine – Gastroenterology, one week in the coronary and metabolic unit, where the student becomes familiar with the basic diagnostic and therapeutic procedures for managing acute conditions. Furthermore, the student completes one week of practice at the Department of Hematology and Transfusion Medicine, the Department of Pulmonology and Phthisiology, and the Department of Occupational Medicine and Toxicology.

Recommended literature:
Harrison's® Principles of Internal Medicine, 21st edition. McGraw-Hill Companies, 2022
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 1. diel, 2004, 206 s.

Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 2. diel, 2004, 254 s.
Mokáň M. a kol.
Vnútorné lekárstvo. Bratislava, Univerzita Komenského, 3. diel, 2004, 322 s.
Samoš M, Bolek T, Bánovčin P, Dedinská I, Vyšehradský R, Benko J, Mokáň M a kol.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – zimný 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.
Praktické cvičenia z vnútorného lekárstva pre IV. a V. ročník JLF UK v Martine – letný semester. P+M
s.r.o. Turany 2021, 270 s.
Klener P.
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka R. a kol.
Interna. (3. aktualizované vydání) Praha: Triton, 2020, 855 s.
Souček M. a kol.
Vnitřní lékařství 1. díl. Praha: Grada, 2025. 1560 s.
Marek J. a kol.
Markova farmakoterapie vnitřních nemocí. Praha: Grada, 2019. 896 s. ISBN
Špinar J. a kol.
Propedeutika a vyšetřovací metody vnitřních nemocí. Praha: Grada, 2008, 255 s.
Klener P. a kol.
Propedeutika ve vnitřním lékařství. e-kniha. Praha: Galén, 2012

Languages necessary to complete the course:
Slovak lenguage.

Notes:

Past grade distribution
Total number of evaluated students: 485

A	ABS0	B	C	D	E	FX
89,48	0,0	8,04	1,86	0,62	0,0	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, doc. MUDr. Martin Ďuriček, PhD., MUDr. Peter Hyrdel, PhD., prof. MUDr. Rudolf Hyrdel, CSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MBA, MUDr. Lucia Stančiaková, PhD., prof. MUDr. Ján Staško, PhD., MUDr. Martin Schnierer, PhD., MUDr. Matej Stančík, PhD., MUDr. Michal Mokáň, PhD., doc. MUDr. Tomáš Šimurda, PhD., MPH, doc. MUDr. Tomáš Bolek, PhD., MUDr. Juliana Prindešová Bušíková, PhD., MUDr. Ľuboš Hamada

Last change: 26.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IKG/J-S-VL-037/17	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-015/16 - Physiology (1)

Course requirements:
1. To attend both practicals. 2. To pass through the final evaluation. the final evaluation is performed by menanas 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 auxilliary diagnostic methods in the fields of cardiology and pneumology.

Class syllabus:
Lectures: 1. Patient´s history, it´s 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 cardiovasular 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 sings. Radiographic manifestation of the lung diseases. 13. Auxiliary examination methods in respiratory diseases. 14. Complex evaluation of the patient with ccardiovascular and respiratory diseases. Practical lesson :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. Ausculation findings in heart, pathological findings in valvular diseases of the heart. 7. Evaluation of the physiological ECG curves. Test. 8. Evaluation of the pathological ECG curves. 9. Diagnostical usage of the auxiliary examination methods in cardiovascular diseases (X-ray, ultrasonography, CT, laboratory parametres, scintigraphy ect.)

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. Interpretation of the pathological X-ray slides. 13.Auxiliary examination methods in pneumology. 14. Elaboration of the model of the patient with cardiovascular or respiratory disease. Credit test.

Recommended literature:

Hrušovský Š. Internistická propedeutika: Vydavateľstvo: Herb, 2012, 800 s.
Klener P. a kil. : Propedeutika ve vnitřním lékařství: E-kniha Galén 2012
Šinar J. a kol.: propedeutika a vyšetrovací metody vnitřních nemocí.,Praha,Grada,2008,255 s. ISBN 9788024717494
Takáč M.: Propedeutika vnútorného lekárstva. Martin, Osveta 1998 307 s. ISBN 80-88824-73-7
Kordač V. a kol.: Vnitřní lékařství. Úvod do oboru a vyšetrovací metód. Praha UK, 1989,490 s.
Pullmann R. a Pavlovič M.: Laboratórne nálezy a ich klinická interpretácia I. s. 936 a II. 652: Raabe,Slovensko, 2007 -2011 ISBN 978-80-89182-13-8

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 1109

A	ABS0	B	C	D	E	FX
49,05	0,18	23,17	18,21	6,94	2,43	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 Samoš, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Michal Mokáň, PhD., MUDr. Anna Ružinák Bobčáková, PhD., MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ján Lazor, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, PhD., MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, PhD., doc. MUDr. Ľubomír Skladaný, PhD., prof. MUDr. Dušan Meško, PhD., MUDr. Jakub Benko, PhD., MUDr. Juraj Krivuš, PhD., MUDr. Tímea Blichová, MUDr. Patrik Lecký, MUDr. Lucia Kapičáková, MUDr. Patrícia Kleinová, MUDr. Stanislava Mikulová, PhD., MUDr. Martin Jozef Péč, PhD., MUDr. Terézia Kozáková, MUDr. Mária Kyselová, MUDr. Matthea Jančáriková, MUDr. Jakub Jurica, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IKG/J-S-VL-038/17	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-016/16 - Physiology (2) and JLF.IKG/J-S-VL-037/17 - Internal Medicine Propedeutics (1)

Course requirements:
To attend both practicals. 2. To pass through the final evaluation. The final evaluation is performed by menans 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 auxilliary 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 if 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. Algoritm 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:

Hrušovský Š.: Internistická propedeutika: Vydavateľstvo: Herba 2012, 800 s.
Klener P. a kol. : Propedeutika ve vnitřním lékařství. : E-kniha Galén, 2012.
Šinar J. a kol. : Propedeutika a vyšetrovací metody vnítřních nemocí. Praha, Grada 2008, 255 s. ISBN 9788024717494
Takáč M.: Propedeutika vnútorného lekárstva, Martin, Osveta 1998 307 s. ISBN 80-88824-73-7
Kordáč V. a kol.: Vnítřní lékaŘství. Úvod do oboru a vyšetrovací metódy., Praha UK, 1989, 490 s.
Pullmann R. a Pavlovič M.: Laboratórne nálezy a ich klinická interpretácia I. S 936 a II. S 652 Raabe. Slovensko 2007-2011 ISBN 978-80-89182-13-8

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 982

A	ABS0	B	C	D	E	FX
55,19	0,0	31,77	10,59	1,83	0,61	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., prof. MUDr. Matej Samoš, PhD., doc. MUDr. Robert Vyšehradský, PhD., doc. MUDr. Oto Osina, PhD., doc. MUDr. Tomáš Bolek, PhD., MUDr. Matej Stančík, PhD., MUDr. Lívia Jamrišková, PhD., MUDr. Michal Mokáň, PhD., MUDr. Anna Ružinák Bobčáková, PhD., MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ján Lazor, MUDr. Ivana Lipták Žiačiková, doc. MUDr. Peter Bánovčin, PhD., MBA, MUDr. Michal Demeter, PhD., doc. MUDr. Martin Ďuriček, PhD., MUDr. Jakub Hoferica, PhD., MUDr. Peter Hyrdel, PhD., MUDr. Peter Lipták, PhD., MUDr. Lenka Nosáková, PhD., MUDr. Michal Prokopič, PhD., MUDr. Martin Schnierer, PhD., MUDr. Diana Vážanová, PhD., doc. MUDr. Ľubomír Skladaný, PhD., doc. MUDr. Juraj Sokol, PhD., MBA, prof. MUDr. Ján Staško,

PhD., prof. MUDr. Dušan Meško, PhD., MUDr. Jakub Benko, PhD., MUDr. Tímea Blichová, doc. MUDr. Matej Vnučák, PhD., MUDr. Karol Graňák, PhD., MUDr. Lucia Kapičáková, MUDr. Patrícia Kleinová, MUDr. Andrej Kollár, MUDr. Juraj Krivuš, PhD., MUDr. Patrik Lecký, MUDr. Zuzana Miertová, MUDr. Stanislava Mikulová, PhD., MUDr. Martin Jozef Péč, PhD., doc. MUDr. Ivana Ságová, PhD., MUDr. Ivan Kocan, PhD., MUDr. Terézia Kozáková, MUDr. Mária Kyselová, MUDr. Matthea Jančáriková, MUDr. Jakub Jurica, PhD.
Last change: 06.04.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.BioMed/J-S-VL-128/18	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. Pravalence. Positive predictive value, negative predictive value – the key information for a physician and a patient. Diagnostic accuracy of PSA (prosate-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 scientifice (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: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMBl/J-S-VL-097/18	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: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Molecular biology

Course requirements:
Attendance in practicals a preparation 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, dideoxysequencing 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 dideoxysequecning workflow, pipetting of PCR, real-time PCR and dideoxysequencing, interpretation of PCR, real-time PCR, dideoxysequencing and fragment analysis experiments.

Recommended literature:
http://www.qiagen.com/products/genomicdnastabilizationpurification/dneasytissuesystem/dneasybloodtissuekit.aspx#Tabs=t2 pages dealing with DNA from blood: p. 25-27 7500 Fast Real-Time PCR System http://www3.appliedbiosystems.com/cms/groups/mcb_support/documents/generaldocuments/cms_041436.pdf str-9-14, 33-47. DNA sequencing and capillary electrophoresis http://www3.appliedbiosystems.com/cms/groups/mcb_support/documents/generaldocuments/cms_041003.pdf str. 2-14 Laboratory protocol from Dept. Mol. Biol.

Languages necessary to complete the course:
Slovak

Notes:
No.

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. RNDr. Zora Lasabová, PhD., doc. Mgr. Tatiana Burjanivová, PhD.

Last change: 24.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-144/25	Latin terminology in ananatomy

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:
passing the test, attendance

Learning outcomes:
The aim of the course is to acquire the basics of the Latin anatomical terminology and facilitate orientation in it that is a necessary step for a successful introduction to the study of Anatomy. The main outcome of the course is mastering the principles of specialized terms formation, their correct pronunciation, understanding grammar connections and automating the use of terms indicating directions, planes or positions of anatomical structures. The course is not a substitute for another compulsory course Basics of Medical Terminology.

Class syllabus:
1. Pronunciation and Reading
Pronunciation of groups of sounds and whole terms, reading the terms with correct pronunciation, reading autopsy reports and findings with terms used in context and their correct pronunciation, reading comprehension
2. Adjectives in Anatomy
Introduction to the issue of adjectives used in anatomy, word order, agreeing adjective, agreement of nouns in gender, number and case, opposites
3. Grading of adjectives
Anatomical planes and directions expressed through comparatives of adjectives of the 3rd declensions, opposites
4. Numerals in anatomy
Basic and ordinal numerals 1-12, use of Roman numerals to denote anatomical structures, designation of vertebrae, nerves and fingers with numbers and their terminological equivalents
5. Nouns in anatomy
Introduction to nouns, declension, declensions 1-5, conjunction with an adjective and word order, agreeable and disagreeable adjectives, meaning of the genitive sg., specifics of nouns of the third declension
6. Review
7. Test

Recommended literature:
Bujalková, M., Šimon, F.: TERMINOLOGY MEDICA LATINA.
Textbook of medical terminology for medical students. Martin: Osveta Publishing House 2022.
236 p. 4th supplemented and revised edition. ISBN 978-80-8063-511-4
internet
handouts

Languages necessary to complete the course:
Slovak language, Latin language

Notes:

Past grade distribution
Total number of evaluated students: 86

A	ABS0	B	C	D	E	FX
96,51	0,0	0,0	0,0	0,0	0,0	3,49

Lecturers: Mgr. Desana Kiselová

Last change: 14.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-109/19	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:
EVALUATION
To compete the course, three basic conditions should be fulfilled:
1) Active attendance at the seminars: 7 seminars per 8 points max. 56 points
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)
2) Studying and presenting a selected topic on respective legislation max. 24points
3) Test for continuous evaluation (10 questions per 2 points) max. 20 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)
For successful completion of the course, at least 60 points in final evaluation are needed.
In case of insufficient fulfilment of conditions for continuous evaluation stated in the syllabus, the guarantee assigns a term for their substitution during study period.
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 considering valid legislative regulations (approval, requirements for operation of healthcare facilities considering health

protection). Supervision mechanisms - Health Care Surveillance Authority. Obligations of a health worker in relation to the Social Insurance Agency. Legal responsibility of healthcare providers.

Recommended literature:

Obligatory:

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

Recommended:

KÁDEK PAVOL. Právna zodpovednosť v medicíne a zdravotníctve. Bratislava: Wolters Kluwer, 2017, 216 s. ISBN 978-80-8168-650-4

Languages necessary to complete the course:

slovak

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: prof. MUDr. Viera Švihrová, CSc.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-010/25	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: 6

Recommended semester: 3.

Educational level: I.II.

Prerequisites: JLF.ÚLBch/J-S-VL-008/24 - Medical Chemistry

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:
Upon completion of the course, the graduate will acquire knowledge about the synthesis, degradation, and metabolism of biomolecules – carbohydrates, lipids, nucleic acids, and proteins – within the human body. The student will deepen their understanding of biochemical pathways in individual organs under physiological conditions, learn how these pathways are regulated and interconnected, and gain insight into how metabolic processes function under pathological conditions at the molecular level. This understanding forms the basis for accurate diagnosis, effective treatment, and a personalized approach to patient care. The educational outcome includes comprehension of the mechanisms, causes, complications, and treatment strategies for diseases. Through the preparation of seminar presentations and the practical examination of biological material, the student will be able to apply theoretical knowledge in practice and attempt to solve model situations related to specific diseases and their potential complications – scenarios they may encounter in clinical practice as future physicians.

Class syllabus:
Carbohydrate digestion and absorption, regulation in gastrointestinal tract. Glycogenolysis and glycogenesis, regulation. Glycolysis and gluconeogenesis. Regulation at substrate level and hormonal regulation, disorders. Pentose phosphate pathway. Fructose, galactose, glucuronic acid, proteoglycans and glycoproteins. metabolism. Production of acetyl CoA from pyruvate. Energy production and regulation of citric acid cycle. The principles of oxidation-reduction reactions in living systems. Reduction potential, redox systems, macroergic compounds. Electron transport in mitochondria, formation of proton gradient. Oxidative phosphorylation. Inhibitors of electron transfer and ATP formation. Transfer of reducing equivalents across membranes. Lipid digestion and absorption, regulation in GIT. Fatty acid synthesis and degradation; regulation. Metabolism of fatty acids with odd number of carbon atoms. Synthesis and degradation of triacylglycerols, phospholipids and glycolipids, regulations. Synthesis of cholesterol, regulation. Conversion of cholesterol to bile acids. Role of bile acids in lipid digestion. Metabolism of eicosanoids and

their biological significance. Synthesis and degradation of pyrimidine and purine nucleotides, regulations and disorders.

Recommended literature:

Dobrota, D. a kol. Lekárska biochémia. Vysokoškolská učebnica. Vydavateľstvo Osveta, spol.s.r.o., Martin, 2012,723 s.
Murray, R.K a spol. Harperova ilustrovaná biochémie. Galén, 2012, 730 s.
Dobrota, D. a kol. Praktické cvičenia z lekárskej chémie a biochémie. Univerzita Komenského v Bratislave, 2009, 123 s.
Tatarková, Z. Problémové úlohy k seminárom z lekárskej chémie a biochémie. Univerzita Komenského v Bratislave, 2013, 89 s.

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 153

A	ABS0	B	C	D	E	FX
52,94	0,65	30,07	13,73	0,65	1,96	0,0

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Kaplán, CSc., prof. RNDr. Ján Lehotský, DrSc., doc. Mgr. Monika Kmeťová Sivoňová, PhD., doc. Mgr. Eva Babušíková, PhD., doc. Ing. Zuzana Tatarková, PhD., doc. RNDr. Jozef Hatok, PhD., doc. Mgr. Jana Jurečeková, PhD., doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., prof. RNDr. Peter Račay, PhD., MUDr. Michal Cibulka, PhD., Ing. Ján Strnádel, PhD.

Last change: 20.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-011/17	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-008/24 - Medical Chemistry and JLF.ÚLBch/J-S-VL-010/25 - 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:
Dobrota, D. a kol. Lekárska biochémia. Vysokoškolská učebnica. Vydavateľstvo Osveta, spol.s.r.o., Martin, 2012,723 s.
Murray, R.K a spol. Harperova ilustrovaná biochémie. Galén, 2012, 730 s.
Dobrota, D. a kol. Praktické cvičenia z lekárskej chémie a biochémie. Univerzita Komenského v Bratislave, 2009, 123 s.

Tatarková, Z. Problémové úlohy k seminárom z lekárskej chémie a biochémie. Univerzita Komenského v Bratislave, 2013, 89 s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 1062

A	ABS0	B	C	D	E	FX
26,37	0,0	22,5	19,49	12,9	14,88	3,86

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

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBl/J-S-VL-012/25	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: 7

Recommended semester: 2.

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:
Nečas,O. a kol.: Obecná biologie pro lékařske fakulty, Jinočany, H&H 2000, 554 s.
Péč, M. a kol.: Praktické cvičenia a semináre z lekárskej biológie pre všeobecné lekárstvo, Martin, Beriss, 2013
Péč, M. a kol.: Kompendium lekárskej biológie a genetiky pre študijný program Všeobecné lekárstvo, 1. vyd. – Martin: Jesseniova lekárska fakulta UK, 2020. 381 s. [online]
Sršeň,Š., Sršňová,K.: Základy klinickej genetiky a jej molekulárna podstata, Martin, Osveta 2000, 410 s.
Kapeller,K., Strakele, H.: Cytomorfológia, Osveta, Martin, 1999, 239 s.

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. Martin Péč, PhD., MPH, RNDr. Marek Samec, PhD., RNDr. Vincent Lučanský, PhD., Ing. Ján Strnádel, PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD., MUDr. Monika Péčová, PhD.

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBl/J-S-VL-012/21	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:
Nečas,O. a kol.: Obecná biologie pro lékařske fakulty, Jinočany, H&H 2000, 554 s.
Péč, M. a kol.: Praktické cvičenia a semináre z lekárskej biológie pre všeobecné lekárstvo, Martin, Beriss, 2013
Péč, M. a kol.: Kompendium lekárskej biológie a genetiky pre študijný program Všeobecné lekárstvo, 1. vyd. – Martin: Jesseniova lekárska fakulta UK, 2020. 381 s. [online]
Sršeň,Š., Sršňová,K.: Základy klinickej genetiky a jej molekulárna podstata, Martin, Osveta 2000, 410 s.
Kapeller,K., Strakele, H.: Cytomorfológia, Osveta, Martin, 1999, 239 s.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 528

A	ABS0	B	C	D	E	FX
96,02	0,38	0,76	2,84	0,0	0,0	0,0

Lecturers: prof. MUDr. Martin Péč, PhD., MPH, RNDr. Marek Samec, PhD., RNDr. Vincent Lučanský, PhD., Ing. Ján Strnádel, PhD., RNDr. Mária Franeková, PhD., Mgr. Jana Mazuchová, PhD., MUDr. Monika Péčová, PhD.

Last change: 15.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBl/J-S-VL-013/22	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.ÚLBl/J-S-VL-012/21 - 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 the 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:
Nečas,O. a kol.: Obecná biologie pro lékařske fakulty, Jinočany, H&H 2000, 554 s.
Péč, M. a kol.: Praktické cvičenia a semináre z lekárskej biológie pre všeobecné lekárstvo, Martin, Beriss, 2013
Péč, M. a kol.: Kompendium lekárskej biológie a genetiky pre študijný program Všeobecné lekárstvo, 1. vyd. – Martin: Jesseniova lekárska fakulta UK, 2020. 381 s. [online]
Sršeň,Š., Sršňová,K.: Základy klinickej genetiky a jej molekulárna podstata, Martin, Osveta 2000, 410 s.
Kapeller,K., Strakele, H.: Cytomorfológia, Osveta, Martin, 1999, 239 s.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 409

A	ABS0	B	C	D	E	FX
74,82	0,0	15,16	9,05	0,0	0,73	0,24

Lecturers: prof. MUDr. Martin Péč, PhD., MPH, RNDr. Mária Franeková, PhD., RNDr. Marek Samec, PhD., RNDr. Vincent Lučanský, PhD., Ing. Ján Strnádel, PhD., Mgr. Jana Mazuchová, PhD., MUDr. Monika Péčová, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBf/J-S-VL-004/15	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, efective dose and personal dosimetry).

Course requirements:
Students are assessed by means of an oral exam, a credit test, and continuous assessment during exercises and seminars. The assessment of the student's continuous work prior to the oral exam is carried out by adding up the points obtained and classifying them into the following categories:
A maximum of 130 points can be obtained for practical session, i.e. 10 points for each session. Assessment scale for semester: A ≥ 81, B ≥ 66, C ≥ 51, D ≥ 36, E ≥ 20, Fx < 20.
A maximum of 20 points can be obtained for the credit test, with the following grading scale for the test: A ≥ 18, B ≥ 15, C ≥ 12, D ≥ 9, E ≥ 6, Fx < 6.
The overall assessment of the Medical Biophysics course consists of the semester assessment, the test, and 3 exam questions.
Scale of assessment (preliminary/final): 20/80

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. Formation of ionizing radiation and interactions of ionizing radiation with living systems, radiological quantities and units. Detection of ionizing 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:

Povinná: Navrátil, L., Rosina, J. a kol. Medicínska biofyzika. 2. vydanie, Praha: Grada, 2019. 431 s. ISBN 978-80-271-0209-9

Šimera, M., Jakuš, J., Poliaček, I. a kol. Vybrané kapitoly z lekárskej biofyziky s praktickými úlohami. Martin, JLF UK, 2018. 232 s. ISBN 978- 80-8187-056-9

Odporúčaná:

Hrazdira, I. a kol. Biofyzika. Praha: Avicenum, l990. 3l8 s. ISBN 80-201-0046-6

Jakuš, J. Neurónové mechanizmy dýchania a respiračných reflexov. Bratislava: UK, 1999. 66 s. ISBN 80-223-1379-3

Languages necessary to complete the course:

Slovak language

Notes:

Past grade distribution

Total number of evaluated students: 1449

A	ABS0	B	C	D	E	FX
71,57	0,0	13,39	9,45	3,59	1,79	0,21

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

Last change: 09.09.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-008/25	Medical Chemistry

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 3 **per level/semester:** 28 / 42
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
Student assessment is carried out in the form of an examination consisting of a written and an oral part. Minimum pass rate: 60%. Grading scale: A: 91–100%, B: 81–90%, C: 73–80%, D: 66–72%, E: 60–65%, FX: 59% and below.
Scale of assessment (preliminary/final): 40/60

Learning outcomes:
By completing the course, the student acquires basic knowledge about biologically important compounds and the principles of chemical processes in living systems. The student will understand the principles of bioenergetics and enzyme kinetics, the laws governing chemical reactions in aqueous solutions, the mechanisms of regulation of chemical processes at the enzymatic level, and will gain fundamental information about the properties of biological membranes necessary for understanding substance exchange, hormone action, and cell signaling. The acquired knowledge can be applied in the study of biological oxidations, metabolism of substances, and the acid–base balance of body fluids. Completion of the course also contributes to an understanding of the relationships between the structure and function of biologically important compounds, the basics of storage and transfer of genetic information, and introduces current applications of recombinant DNA technology in clinical medicine.

Class syllabus:
Biologically important elements and compounds. Weak noncovalent interactions and their significance for biopolymers and biological membranes.
Thermodynamics. Entropy, Gibbs free energy, and coupled reactions in living systems.
Rate of chemical reactions. Types of reactions and their significance in metabolic pathways. Kinetics of enzyme reactions, enzyme inhibition. Enzyme catalysis and regulation at the enzyme level.
Properties of aqueous solutions. Chemical reactions in aqueous solutions.
Chemical properties and biological significance of amino acids, peptides, proteins, carbohydrates and their derivatives, triacylglycerols, phospholipids, sphingolipids, steroids, nucleotides, coenzymes, and vitamins.

Relationship between structure and function of proteins. Chemical properties and biological importance of myoglobin and hemoglobin.
Structure of biological membranes. Lipid and protein components of membranes, membrane fluidity.
Membrane transport. Mechanisms of passive and active transport of ions and molecules.
Structure and properties of DNA, mRNA, tRNA, and rRNA. Genetic information and the eukaryotic genome.
Mechanism of DNA replication and repair of DNA damage.
RNA synthesis – transcription and post-transcriptional modifications of RNA.
Characteristics of the genetic code, mutations. Mechanism of protein synthesis and post-translational modifications.
Regulation of gene expression in eukaryotes. Clinical examples of disorders of gene expression regulation.
Practical applications of recombinant DNA technology in human genetics, prenatal diagnostics, gene therapy, and examples of inherited diseases.

Recommended literature:

D. Dobrota a kol.: Lekárska biochémia. Vysokoškolská učebnica. Osveta Martin, 2016. 799 s. D. Dobrota a kol.: Praktické cvičenia z lekárskej chémie a lekárskej biochémie. UK Bratislava, 2009. 123 s. R. K. Murray a kol.: Harperova ilustrovaná biochemie. Galén Praha, 2012. 730 s. Z. Tatarková: Problémové úlohy k seminárom z lekárskej chémie a biochémie. UK Bratislava, 2013. 89s.

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 141

A	ABS0	B	C	D	E	FX
46,1	0,0	21,99	16,31	7,09	7,09	1,42

Lecturers: prof. MUDr. Dušan Dobrota, CSc., doc. Mgr. Eva Babušíková, PhD., doc. RNDr. Jozef Hatok, PhD., prof. RNDr. Peter Račay, PhD., doc. Ing. Zuzana Tatarková, PhD., MUDr. Michal Cibulka, PhD., doc. RNDr. Tatiana Matáková, PhD., Mgr. Radovan Murín, PhD., doc. Mgr. Jana Jurečeková, PhD., doc. Mgr. Monika Kmeťová Sivoňová, PhD., prof. RNDr. Peter Kaplán, CSc.

Last change: 19.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-008/22	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. - Termodynamics 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:

D. Dobrota a kol.: Lekárska biochémia. Vysokoškolská učebnica. Osveta Martin, 2012. 723 s.
D. Dobrota a kol.: Praktické cvičenia z lekárskej chémie a lekárskej biochémie. UK Bratislava, 2009. 123 s.
R. K. Murray a kol.: Harperova ilustrovaná biochemie. Galén Praha, 2012. 730 s.
Z. Tatarková: Problémové úlohy k seminárom z lekárskej chémie a biochémie. UK Bratislava, 2013. 89 s.
P. Kaplán: Medical Chemistry, P+M Turany, 2012. 127 s.
P. Račay: Medical chemistry and biochemistry III. Comenius University Bratislava, 2012. 68 s.

Languages necessary to complete the course:

English language

Notes:

Past grade distribution

Total number of evaluated students: 262

A	ABS0	B	C	D	E	FX
33,59	0,76	43,89	17,18	4,58	0,0	0,0

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

Last change: 08.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-009/15	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-008/22 - Medical Chemistry (1)

Recommended prerequisites:
Medical Chemistry (1)
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:

D. Dobrota a kol.: Lekárska biochémia. Vysokoškolská učebnica. Osveta Martin, 2012. 723 s. D. Dobrota a kol.: Praktické cvičenia z lekárskej chémie a lekárskej biochémie. UK Bratislava, 2009. 123 s. R.K. Murray a kol.: Harperova ilustrovaná biochemie. Galén Praha, 2012. 730 s. Z. Tatarková: Problémové úlohy k seminárom z lekárskej chémie a biochémie. UK Bratislava, 2013. 89s.

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 1157

A	ABS0	B	C	D	E	FX
44,86	0,0	25,32	16,59	7,87	4,75	0,61

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

Last change: 05.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚSLME/J-S-VL-137/22	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:
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:
Class syllabus:
I. DOCTORŚ PROCEDURE BY DEATH
Administrative, legislation related to the death of the individual,The importance of the Office for Health Care Supervision
II. 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)
III. 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:
M. Hirt a kol. – Soudní lékařství I., II.
J. Štefan, J. Hladík a kol. – Soudní lékařství a jeho moderní trendy
E. Knobloch – Lékařská kriminalistika
J. Tesař – Soudní lékařství
Ľ. Straka, M. Hirt, F. Novomeský a kol. – Kompendium súdnolekárskej toxikológie
Ľ. Straka, F. Novomeský, J. Krajčovič, F. Štuller – Súdnolekárska alkohológia
V. Porada a kol. – Kriminalistika – Technické, forenzní a kybernetické aspekty
Aktuálna zdravotnícka legislatíva: Zákony č. 576 - 581/2004

Languages necessary to complete the course:
Slovak language

Notes:
summer semester, minimal number of students: 5, maximal number of students: 15

Past grade distribution
Total number of evaluated students: 14

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

Lecturers: doc. MUDr. Martin Janík, PhD., prof. MUDr. Ľubomír Straka, PhD., MUDr. Veronika Rybárová, PhD.

Last change: 18.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.PK/J-S-VL-032/25	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:

Course requirements:
Conditions for enrollment in the exam:
- participation in practical exercises at least 4 times (8 teaching hours), participation in lectures 4 times
- favorable results of ongoing controls
Methods of continuous control:
- until the end of the 14th week: control questions from the curriculum during practical exercises
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%
Share of continuous control in the final evaluation of the course: 10%
Method of final evaluation: oral exam event. 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-psycho-social model of disease.
Mental functions – basic characteristics, methods of examination, issues of normality and pathology, behaviour and experiencing (externalizing and internalizing behavior), state and trait variables, psychopathology.
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.
Psychological problems of medical examination, observation and interview as a diagnostic tool in medicine. Psychological diagnosis and its importance in medical practice.
Psychological problems of treatment. Psychological methods of treatment, psychotherapy and its mechanisms. Psychological crisis, crisis intervention.
Psychological problems of health environment, outpatient and inpatient care.
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.
Mental hygiene, prevention, specific psychohygienic problems.
Verbal and nonverbal communication and its importance in medicine. Communication with specific groups of patients. Patient noncompliance.
Specifics of communication in different developmental stages. Communication with pediatric patient, geriatric patient. Communication with seriously ill and dying patients.
Communication with patients with acute and non-acute mental disorder, with physical, sensory and intellectual disabilities.

Recommended literature:

Compulsory literature
x Žucha, I., Čaplová, T. a kol. Lekárska psychológia. Bratislava: UK, 2008. 208 s. ISBN 978-80-223-2439-7 x Morovicsová E. a kol. Komunikácia v medicíne. Bratislava: UK, 2011. 210 s. ISBN 978-80-223-3025-1 Raudenská J., Javůrková A. Lékařská psychologie ve zdravotnictví. Praha: Grada 2011. 304 s. ISBN 978-80-247-2223-8 Beran, J. a kol. Lékařská psychologie v praxi. Praha: Grada 2010. 144 s. ISBN 978-80-247-1125-6 Linhartová V. Praktická komunikace v medicíně. Praha: Grada 2007, 152 s. ISBN 978-80-247-1784-5
Hosák, L., Hrdlička, M., Libiger, J. a kol. Psychiatrie a pedopsychiatrie. Praha: Univerzita Karlova Nakladatelství Karolínum 2019. 647 s. ISBN 978-80-246-2998-8, ISBN 978-80—246-3011-3 (pdf)
Kolibáš, E., Novotný, V.: Alkohol, drogy, závislosti. Bratislava UK, 2007. 257 s. ISBN 978-80-223-2315-4

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: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., doc. Mgr. Martina Dubovcová, PhD., MPH, MUDr. Zuzana Mlynčeková, PhD.

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.PK/J-S-VL-032a/25	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: 3

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Course requirements:
Conditions for enrollment in the exam:
- The participation in practicals is compulsory for at least 12-times
- Substitution of practicals by participation in a lecture
- Specific part of the teaching will take place online

Methods of continuous control:
- until the end of the 14th week: control questions from the curriculum during practical exercises

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%
Share of continuous control in the final evaluation of the course: 10%
Method of final evaluation: oral exam event. 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-psycho-social model of disease.
Mental functions – basic characteristics, methods of examination, issues of normality and pathology, behaviour and experiencing (externalizing and internalizing behavior), state and trait variables, psychopathology.
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.
Psychological problems of medical examination, observation and interview as a diagnostic tool in medicine. Psychological diagnosis and its importance in medical practice.
Psychological problems of treatment. Psychological methods of treatment, psychotherapy and its mechanisms. Psychological crisis, crisis intervention.
Psychological problems of health environment, outpatient and inpatient care.
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.
Mental hygiene, prevention, specific psychohygienic problems.
Verbal and nonverbal communication and its importance in medicine. Communication with specific groups of patients. Patient noncompliance.
Specifics of communication in different developmental stages. Communication with pediatric patient, geriatric patient. Communication with seriously ill and dying patients.
Communication with patients with acute and non-acute mental disorder, with physical, sensory and intellectual disabilities.

Recommended literature:

Compulsory literature
x Žucha, I., Čaplová, T. a kol. Lekárska psychológia. Bratislava: UK, 2008. 208 s. ISBN 978-80-223-2439-7 x Morovicsová E. a kol. Komunikácia v medicíne. Bratislava: UK, 2011. 210 s. ISBN 978-80-223-3025-1 Raudenská J., Javůrková A. Lékařská psychologie ve zdravotnictví. Praha: Grada 2011. 304 s. ISBN 978-80-247-2223-8 Beran, J. a kol. Lékařská psychologie v praxi. Praha: Grada 2010. 144 s. ISBN 978-80-247-1125-6 Linhartová V. Praktická komunikace v medicíně. Praha: Grada 2007, 152 s. ISBN 978-80-247-1784-5
Hosák, L., Hrdlička, M., Libiger, J. a kol. Psychiatrie a pedopsychiatrie. Praha: Univerzita Karlova Nakladatelství Karolínum 2019. 647 s. ISBN 978-80-246-2998-8, ISBN 978-80—246-3011-3 (pdf)
Kolibáš, E., Novotný, V.: Alkohol, drogy, závislosti. Bratislava UK, 2007. 257 s. ISBN 978-80-223-2315-4

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 1

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

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., doc. Mgr. Martina Dubovcová, PhD., MPH, MUDr. Zuzana Mlynčeková, PhD., Mgr. Eva Kiššová

Last change: 05.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMI/J-S-VL-017/17	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.ÚLBl/J-S-VL-012/21 - Medical Biology and Genetics (1)

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): 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 desinfection 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 (basics of pharmacology for microbiology), vaccines, desinfection, 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:

Votava M. Lékařská mikrobiologie – obecní Brno: Neptun, 2005. 351 s.
Bednář M a kol. Lékařská mikrobiologie. Praha: Marvil 1996 (dotlač 1999); 558 s.
Kompaniková J, Nováková E, Neuschlová M. Mikrobiológia nielen pre medikov. Žilina: EDIS 2013; 209 s. ISBN 978-80-554-0827-9.
Nováková E, Kompaníková J, Neuschlová M, Porubská A. Lekárska mikrobiológia. 2013; 110 s. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=203
Neuschlová M, Nováková E, Kompaníková J. Abeceda imunológie - terminologický slovník. UK v Bratislave JLF UK v Martine 2016; 60 s. ISBN 978-80-8187-016-3. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=344
Neuschlová M, Nováková E, Kompaníková J. Návody na praktické cvičenia z imunológie. UK v Bratislave JLF UK v Martine 2016; 114 s. ISBN 978-80-8187-017-0.
Neuschlová Martina, Nováková Elena, Kompaníková Jana. Imunológia - ako pracuje imunitný systém. Martin : Univerzita Komenského v Bratislave Jesseniova lekárska fakulta v Martine 2017; 189 s. ISBN 978-80-8187-031-6.
Učebné texty na MEFANETe http://portal.jfmed.uniba.sk/lekarske-discipliny.php?disid=119 a web stránke Ústavu mikrobiológie a imunológie
Greenwood D et al. Lékařská mikrobiologie. Praha: Grada 1999. 686 s.
Harvey RA et al. Lippincott´s Illustrated Review Microbiology. Lippincot Williams §Wilkins 2007, pp 438.
Nováková E a kol. Mikrobiológia – princípy a interpretácia laboratórnych vyšetrení 1. Časť. ISSN 1337-7396. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=356
Kompaníková J, Nováková E, Neuschlová M. Kazuistiky v mikrobiológii. ISSN 1337-7396. Dostupné z: https://portal.jfmed.uniba.sk/clanky.php?aid=247
Nováková E a kol. Mikrobiológia – princípy a interpretácia laboratórnych vyšetrení 1. Časť. ISSN 1337-7396. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=356
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 7th Edition. Philadelphia: Elsevier Saunders 2013; pp. 874.
Murray PR, Rosenthal KS, Pfaller MA. Medical Microbiology 8th Edition. Philadelphia: Elsevier Saunders 2016; pp. 836.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 1039

A	ABS0	B	C	D	E	FX
42,06	0,48	29,64	18,38	6,64	2,79	0,0

Lecturers: prof. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., doc. MUDr. Vladimíra Sadloňová, PhD., MUDr. Janka Jakušová, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMI/J-S-VL-018/17	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-017/17 - Microbiology (1)

Course requirements:
- it is obligatory to be present at practicals (1 absence is tolerated)
- test during the semester
- oral presentation of seminar work

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 of microbes and pathogenesis of 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 student 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
Bacteriology, G+rods, anaerobes

Spirochetales, chlamydia, mycoplasma
Introduction to virology, structure, pathogenesis, immunity, therapy (basics of pharmacology)
Virology, DNA viruses , RNA viruses
Hepatitis viruses, prions, HIV
Medical mycology - structure, pathogenesis, immunity, therapy (basics of pharmacology), medical parasitology - structure of parasites, pathogenesis, immunity, therapy (basics of pharmacology)
RTI, STI, GIT and UGT infection – ethiology
CNS, blood infection, bacterial intoxication – ethiology
Ethiology of infections of newborne, old patient, fetus infection
Hospital infection and opportunistic infections ethiology
Direct and indirect diagnostical methods
New approaches in identification of infectious ethiology

Recommended literature:

Votava M. Lékařská mikrobiologie speciální. Brno: Neptun 2003 (dotlač 2006); 495 s.
Bednář M a kol. Lékařská mikrobiologie. Praha: Marvil 1996 (dotlač 1999); 558 s.
Kompaniková J, Nováková E, Neuschlová M. Mikrobiológia nielen pre medikov. Žilina: EDIS 2013; 209 s. ISBN 978-80-554-0827-9.
Nováková E, Kompaníková J, Neuschlová M, Porubská A. Lekárska mikrobiológia. 2013; 110 s. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=203
Neuschlová M, Nováková E, Kompaníková J. Abeceda imunológie - terminologický slovník. UK v Bratislave JLF UK v Martine 2016; 60 s. ISBN 978-80-8187-016-3. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=344
Neuschlová M, Nováková E, Kompaníková J. Návody na praktické cvičenia z imunológie. UK v Bratislave JLF UK v Martine 2016; 114 s. ISBN 978-80-8187-017-0.
Neuschlová Martina, Nováková Elena, Kompaníková Jana. Imunológia - ako pracuje imunitný systém. Martin : Univerzita Komenského v Bratislave Jesseniova lekárska fakulta v Martine 2017; 189 s. ISBN 978-80-8187-031-6.
Učebné texty na MEFANETe http://portal.jfmed.uniba.sk/lekarske-discipliny.php?disid=119 a web stránke Ústavu mikrobiológie a imunológie
Greenwood D et al. Lékařská mikrobiologie. Praha: Grada 1999. 686 s.
Nováková E a kol. Lekárska vakcinológia nielen pre medikov. Banská Bystrica: PRO, 2007. 141s.
Harvey RA et al. Lippincott´s Illustrated Review Microbiology. Lippincot Williams §Wilkins 2007, pp 438.
Nováková E a kol. Lekárska parazitológia. Banská Bystrica: PRO, 2006. 96 s.
Nováková E a kol. Mikrobiológia – princípy a interpretácia laboratórnych vyšetrení 1. Časť. ISSN 1337-7396. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=356
Kompaníková J, Nováková E, Neuschlová M. Kazuistiky v mikrobiológii. ISSN 1337-7396. Dostupné z: https://portal.jfmed.uniba.sk/clanky.php?aid=247
Nováková E a kol. Mikrobiológia – princípy a interpretácia laboratórnych vyšetrení 1. Časť. ISSN 1337-7396. Dostupné na: https://portal.jfmed.uniba.sk/clanky.php?aid=356
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 7th Edition. Philadelphia: Elsevier Saunders 2013; pp. 874.
Murray PR, Rosenthal KS, Pfaller MA. Medical Microbiology 8th Edition. Philadelphia: Elsevier Saunders 2016; pp. 836.

Languages necessary to complete the course:

slovak language

Notes:

Past grade distribution
Total number of evaluated students: 1107

A	ABS0	B	C	D	E	FX
31,53	0,0	34,87	17,07	10,93	5,51	0,09

Lecturers: prof. MUDr. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., doc. MUDr. Vladimíra Sadloňová, PhD., MUDr. Janka Jakušová, PhD.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMBl/J-S-VL-090/24	Molecular Biology

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: 6.

Educational level: I.II.

Prerequisites: JLF.ÚLBl/J-S-VL-012/21 - Medical Biology and Genetics (1) and JLF.ÚLBl/J-S-VL-013/22 - Medical Biology and Genetics (2) and JLF.ÚLBch/J-S-VL-009/15 - 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, molecular genetics and genomics knowledge concerning application of the methods of molecular biology in medicine general, understand the basic principles of molecular diagnostics, precision 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:

Languages necessary to complete the course:

Notes:
No.

Past grade distribution
Total number of evaluated students: 119

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: 14.05.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NnK/J-S-VL-116/19	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:
First examination and treatment of newborn, screening examination
enteral and parenteral nutrition, examination of the cardiovascular system, examination of the respiratory system, evaluation of X-rays

Recommended literature:
K.Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254 s, ISBN: 9788089694808

Languages necessary to complete the course:
Slovak language

Notes:
Teachers: prof. MUDr. Katarína Maťašová, PhD., prof. MUDr. Mirko Zibolen, CSc., doc. MUDr. Lucia Časnocha Lúčanová, PhD., MUDr. Tomáš Jurko, PhD., MUDr. Zuzana Uhríková, PhD., MUDr. René Gumulák, PhD., MUDr. Silvia Mikolajčiková, PhD., MUDr. Katarína Maťašová, PhD.

Past grade distribution
Total number of evaluated students: 61

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., doc. MUDr. Tomáš Jurko, PhD., doc. MUDr. Lucia Časnocha Lúčanová, PhD., MUDr. Zuzana Uhríková, PhD.
Last change: 21.08.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NnK/J-S-VL-088/19	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:
K.Maťašová: Neonatológia nielen pre medikov, P+M Turany, 2021, 254 s, ISBN: 9788089694808

Languages necessary to complete the course:
Slovak language

Notes:
Teachers: prof. MUDr. Katarína Maťašová, PhD., prof. MUDr. Mirko Zibolen, CSc., doc. MUDr. Lucia Časnocha Lúčanová, PhD., MUDr. Tomáš Jurko, PhD., MUDr. Zuzana Uhríková, PhD., MUDr. René Gumulák, PhD., MUDr. Silvia Mikolajčiková, PhD., MUDr. Katarína Maťašová, PhD.

Past grade distribution
Total number of evaluated students: 384

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., doc. MUDr. Tomáš Jurko, PhD., doc. MUDr. Lucia Časnocha Lúčanová, PhD., MUDr. Zuzana Uhríková, PhD.

Last change: 21.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NlK/J-S-VL-045/25	Neurology

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: 5

Recommended semester: 9.

Educational level: I.II.

Prerequisites: JLF.IKG/J-S-VL-038/17 - Internal Medicine Propedeutics (2) and JLF.ÚFa/J-S-VL-030/21 - Pharmacology (2) and JLF.PK/J-S-VL-049/24 - Psychiatry (2)

Course requirements:
Successful completion of the course is conditional upon active participation in practical classes and passing the final examination.
Final Examination Requirements for General Medicine (VL):
- Participation in the examination requires active attendance at practical classes – at least 10 out of 12 days of the block. An excused absence is tolerated for up to 2 out of 12 days. Each additional absence must be compensated – substitute teaching will always be arranged individually.
- The final examination in Neurology is oral, consisting of two questions.
- Students must register for the examination no later than one day prior to the scheduled date.
- Students may withdraw from the examination no later than one day prior to the scheduled date.
- If a student is unable to attend the examination, they may be excused only for serious reasons, submitted within five days after the examination date.
- Students are required to present their ISIC student card at the examination.

Learning outcomes:
By completing the course Neurology, the student will:
- Acquire fundamental knowledge of the content and structure of the subject, the principles and methods of neurological examination, and the clinical approaches to patients with neurological disorders.
- Apply knowledge of neuroanatomy and neurophysiology of the peripheral and central nervous system in clinical patient assessment.
- Become familiar with the function of individual neurological systems and the methods of their clinical evaluation.
- Gain an overview of the indications and use of auxiliary diagnostic methods in neurology (imaging, electrophysiological, and laboratory techniques).
- Develop practical skills – will be able to perform an independent neurological examination, analyse pathological findings, determine syndromes, and localise lesions of the nervous system.

- Deepen theoretical knowledge of the epidemiology, aetiology, pathophysiology, clinical presentation, diagnosis, differential diagnosis, and treatment of the most common neurological diseases.
- Master the principles of management of acute neurological conditions (e.g. stroke, epileptic seizure, acute polyneuropathies).
- Enhance clinical reasoning through solving model scenarios and case studies.

Class syllabus:

1. Regulation of motor functions at the spinal and supraspinal levels. Central and peripheral paralysis. Quantitative and qualitative disorders of consciousness. Cranial nerves. Sensory and somatosensory systems.
2. Syndromes of the cerebral lobes. Meningeal syndrome. Spinal cord syndromes. Limbic system and memory. Autonomic (vegetative) nervous system.
3. Ischaemic stroke and cerebral venous sinus thrombosis. Interventional neuroradiology in the diagnosis and treatment of stroke. Haemorrhagic stroke and subarachnoid haemorrhage.
4. Tumours of the brain, meninges, spinal cord and peripheral nervous system. Intracranial hypertension and hypotension. Hydrocephalus. Injuries of the nervous system.
5. Acute neurology: differential diagnosis of comatose states.
6. Generalised and focal epilepsies. Sleep disorders and polysomnography. Migraine and other headaches.
7. Guillain–Barré syndrome, CIDP, MMN and other polyneuropathies. Myasthenia gravis and Lambert–Eaton syndrome. Motor neurone disease (MND). Muscular dystrophies, polymyositis and other myopathies.
8. Multiple sclerosis (MS) and its variants. Neuromyelitis optica spectrum disorders (NMOSD). Disorders associated with anti–MOG antibodies. Other demyelinating conditions. Infectious diseases of the nervous system.
9. Parkinson's disease (PD). Essential and other tremors. Dystonias. Other neurodegenerative and neurometabolic disorders: PSP, MSA, Wilson's disease, and Huntington's disease.
10. Panic disorder. Tetanic and hyperventilation syndrome. Anxiety–depressive disorder. Obsessive–compulsive disorder. New trends in the pharmacotherapy of neurological diseases.
11. Vertebrogenic pain syndromes (cervical, thoracic, and lumbosacral). Pain and algology. Minimally invasive algological procedures and neuromodulation techniques.
12. Alzheimer's disease and other dementias. Human prion diseases. Functional neurological disorders. Vestibular neurology.

Recommended literature:

Kaňovský, P.Bártková, A. a kol. Obecná neurologie a vyšetřovací metody v neurologii. 1. vyd. Olomouc: LF UP, 2019. 338 s. ISBN 978-80-244-5488-7
Kaňovský, P.Bártková, A. a kol. Speciální neurologie, Svazek I. 1. vyd. Olomouc: LF UP, 2020. 433 s. ISBN 978-80-244-5611-9
Kaňovský, P.Bártková, A. a kol. Speciální neurologie, Svazek II. 1. vyd. Olomouc: LF UP, 2020. 435 s. ISBN 978-80-244-5611-9
Ambler, Z. a kol. Klinická neurologie: Část obecná. Praha: Triton, 2008. 976 s. ISBN 978-80-7387-157-4
Bednařík, J., Ambler, Z. a kol. Klinická neurologie: Část speciální I. Praha: Triton, 2010. 707 s. ISBN 978-80-7387-389-9
Bednařík, J., Ambler, Z. a kol. Klinická neurologie: Část speciální II. Praha: Triton, 2010. 711 – 1277 s. ISBN 978-80-7387-389-9
Varsik, P., Černáček, J. Neurológia I. Základy vyšetrovania. Bratislava: Lufema, 1997. 648 s. ISBN 80-9686-630-3

Varsik, P. a kol. Neurológia II. Patogenéza a klinika nervových chorôb. Bratislava: Lufema, 1999. 651 s. ISBN 80-967991-6-9

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 114

A	ABS0	B	C	D	E	FX
80,7	0,0	4,39	8,77	0,88	1,75	3,51

Lecturers: prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Milan Grofik, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, MUDr. Jana Dluhá, PhD., MUDr. Babeta Hofericová, MUDr. Róbert Ružinák, PhD., MUDr. Pavol Skáčik, PhD., prof. MUDr. Štefan Sivák, PhD., MUDr. Monika Turčanová Koprušáková, PhD., doc. MUDr. Ema Kantorová, PhD., MUDr. Kristián Šveda, MUDr. Jana Olekšáková, MUDr. Lucia Babálová, PhD., MUDr. Daniela Feďáková, MUDr. Jaroslav Petrišin, Monika Braniková

Last change: 26.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NchK/J-S-VL-119/22	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: 10.

Educational level: I.II.

Prerequisites: JLF.KVVTCh/J-S-VL-022a/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.

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.
Peripheral nerve injuries, entrapment syndromes, peripheral nerve tumors – characteristics, clinical picture, diagnostic tools and an overview of neurosurgical operations.
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.

Recommended literature:
Lectures and seminars
Greenberg, Mark S. Handbook of Neurosurgery. New York: Thieme Medical Publishers,7th edition, 2010, s. 1338, ISBN: 978-1-60406-326-4
Agarwal Nitin et al. Neurosurgery Fundamentals. Thieme Medical Publishers Inc. 432p. ISBN: 9781626238220

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 405

A	ABS0	B	C	D	E	FX
96,05	0,0	2,96	0,99	0,0	0,0	0,0

Lecturers: prof. MUDr. Branislav Kolarovszki, PhD., MBA, MUDr. Romana Richterová, PhD., MUDr. René Opšenák, PhD.

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KNM/J-S-VL-123/21	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: 7.

Educational level: I.II.

Prerequisites: JLF.ÚLBf/J-S-VL-004/15 - Medical Biophysics and JLF.ÚA/J-S-VL-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - 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: 667

A	ABS0	B	C	D	E	FX
20,24	0,0	37,03	28,79	10,94	3,0	0,0

Lecturers: MUDr. Hubert Poláček, PhD., prof. MUDr. Kamil Zeleňák, PhD., MUDr. Martin Števík, PhD., MPH

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KPLT/J-S-VL-074/19	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: 10.

Educational level: I.II.

Prerequisites: JLF.IK1/J-S-VL-041/19 - Internal Medicine (3)

Course requirements:
obligatory participation in seminars and final test
Scale of assessment (preliminary/final): final test

Learning outcomes:

Class syllabus:

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 - 2. 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:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 746

A	ABS0	B	C	D	E	FX
85,66	0,0	13,0	1,34	0,0	0,0	0,0

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

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KHCh/J-S-VL-140/22	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: 7.

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:
- 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:
Kliment, Plank, Kavcová. Základy klinickej onkológie, Osveta 2016, ISBN: 9788080634308, 206 s
Kliment, Plank, Kavcová. Základy klinickej onkológie. Špeciálna časť, Osveta 2016, ISBN: 9788080634377, 248 s
Buchler. Obecná onkológie , Maxdorf, 2019, ISBN 9788073456177, 384 s
Buchler. Špeciálni onkológie, Maxdorf, 2017, ISBN 9788073455392, 277 s
Kaušitz. Všeobecná onkológia, Solen 2017, ISBN 9788089858057, 608 s
Kaušitz. Špeciálna onkológia, Solen 2020, ISBN 9788089858187, 692 s

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution

Total number of evaluated students: 176

A	ABS0	B	C	D	E	FX
97,16	0,0	2,27	0,57	0,0	0,0	0,0

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

Last change: 29.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.OK/J-S-VL-068/19	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-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - Anatomy (3) and JLF.ÚFy/J-S-VL-016/16 - 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 en 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 optotyps. Theory and practise with slit lamp.
2. Diseases of cornea, sclera and conjuctiva.
Examination of the cornea and conjuctiva with the slit lamp, Placido rings
keratoscopy. Swab collection techniques for conjunctival samples.
3. Uveitis (anterior, intermediate and posterior). Ophthalmic presentations of HIV.

Examination of anterior chamber and vitreous with slit lamp, fundoscopy, direct and indirect ophthalmoscopy.
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.
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.
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.
7. Glaucoma. Dynamic and static perimetry. Tonometry (Goldman, Schiotz, non-contract). Gonioscopy. HRT II, GDx, OCT RNFL.
8. Red eye syndrome – dif. dg.(hyposphagma, Conjunctivitis, Uveitis, acute glaucoma).
Slit lamp examination, first AID for eye injury and caustication, eyelid evertion.
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.
10. Retinal detachment, ocular tumours, dif.dg. of leucocoria. Slit lamp examination, indirect ophthalmoscopy, B- ultrasound scan, CT, MR.

Recommended literature:

- 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.

Languages necessary to complete the course:
english language

Notes:

Past grade distribution
Total number of evaluated students: 854

A	ABS0	B	C	D	E	FX
77,75	0,0	17,1	3,75	1,17	0,23	0,0

Lecturers: doc. MUDr. Peter Žiak, PhD., MUDr. Juraj Halička, PhD.

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.OTK/J-S-VL-070/22	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: 9.

Educational level: I.II.

Prerequisites: JLF.KVVTCh/J-S-VL-022a/22 - Surgical Propedeutics (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, theire diagnosis and treatment options, focusing on prevention and screening examinations, become familiar with therapeutical 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:

Sosna, A. a kol.: Základy ortopedie, Triton, Praha, 2001
Dungl, P. a kol.: Ortopedie, Grada Publishing, Praha, 2005
Vojtaššák J.: Ortopédia a traumatológia, 2006, SAP, ISBN 8089104959
Kokavec M. a kol.: Vybrané kapitoly z detskej ortopédie 1. a 2. diel, Martin, Osveta, 2003
Hrubina, M.: Vybrané kapitoly z ortopédie a traumatológie pohybového aparátu I – zlomeniny proximálneho femuru, Portál Mefanet, 2022
AO Foundation Surgery Reference
Wendsche P., Veselý R. a kol.: Traumatologie, Galén, 2015
Pokorný V. a kol.: Traumatologie, Triton, 2002

Languages necessary to complete the course:
Slovak Language

Notes:

Past grade distribution
Total number of evaluated students: 548

A	ABS0	B	C	D	E	FX
67,52	0,0	22,99	6,93	2,37	0,18	0,0

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

Last change: 12.09.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KORL/J-S-VL-069/19	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-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - Anatomy (3) and JLF.ÚFy/J-S-VL-016/16 - Physiology (2) and JLF.KVVTCh/J-S-VL-022a/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): Content of the final exam - theoretical question + practical demonstration, patient examination.Final exam - condition - completed practical training at 100%. At least 20% of practical training can be justified. Compensation for missed classes will usually be made in the credit week.Date of exam according to AIS2 system - practical + final oral exam are realized together, during one day.

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, examination, therapy. Patient ´s demonstration .
2./ Pharynx and oral cavity - anatomy, physiology , pathology, history, examination, therapy. Patient ´s demonstration .
3./Larynx - anatomy, physiology, pathology, history, examination, therapy . Patient ´s demonstration .
4./Suffocation in E.N.T. , E.N.T.
5./ Ear I - anatomy, physiology, pathology, history, examination, therapy . Patient ´s demonstration .

6./ Ear II - hearing examination /speech, tuning forks, audiometry/ , vestibular system. Patient ´s demonstration .
7./ Medical record , individual work with patient,varia .
8./ Medical record , individual work with patient, varia, operation room .
9./ Medical record , individual work with patient, varia, operation room .
10./ Medical record , individual work with patient, varia, operation room .

Recommended literature:
Profant,M. a kol. Otolaryngológia.Bratislava,ARM 333,2000. 229 s. Klačanský,I.,Jakubíková,J. Detská otorinolaryngológia.Martin, Osveta 1992. 226s
EN: https://portal.jfmed.uniba.sk/clanky.php?aid=459 electronic scripts
EN: https://portal.jfmed.uniba.sk/clanky.php?aid=494 electronic scripts

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 851

A	ABS0	B	C	D	E	FX
57,34	0,0	26,2	11,4	2,82	2,23	0,0

Lecturers: prof. MUDr. Andrej Hajtman, PhD., doc. MUDr. Vladimír Čalkovský, PhD.

Last change: 16.02.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPA/J-S-VL-033/17	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-001/17 - Anatomy (1) and JLF.ÚA/J-S-VL-002/15 - Anatomy (2) and JLF.ÚHE/J-S-VL-005/15 - Histology and Embryology (1) and JLF.ÚHE/J-S-VL-006/17 - Histology and Embryology (2) and JLF.ÚLBl/J-S-VL-012/21 - Medical Biology and Genetics (1) and JLF.ÚLBl/J-S-VL-013/22 - Medical Biology and Genetics (2)

Course requirements:

Learning outcomes:

Class syllabus:
Lectures: 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:
• Harish Mohan: Textbook of Pathology, seventh edition, ISBN 9789351523697, 2015
• S. Cross: Underwood´s Pathology: a Clinical Approach with STUDENT CONSULT Access. 7th
Ed. Elsevier 2018.
• V. Kumar a spol.: Robbins and Cotran Pathologic Basis of Disease. 10th Ed. Elsevier 2020.

• WB Coleman, GJ Tsongalis: : Diagnostic Molecular Pathology. The molecular Basis of Human Disease. 2nd Ed. Elsevier 2017.

Languages necessary to complete the course:
In Slovak

Notes:

Past grade distribution
Total number of evaluated students: 1107

A	ABS0	B	C	D	E	FX
6,96	0,09	25,84	34,42	23,94	8,76	0,0

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

Last change: 02.05.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPA/J-S-VL-034/17	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-001/17 - Anatomy (1) and JLF.ÚA/J-S-VL-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - Anatomy (3) and JLF.ÚHE/J-S-VL-006/17 - Histology and Embryology (2) and JLF.ÚPA/J-S-VL-033/17 - Pathological Anatomy (1)

Course requirements:
Credit Pathological Anatomy I
Scale of assessment (preliminary/final): The 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:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 990

A	ABS0	B	C	D	E	FX
29,49	0,0	36,46	21,62	6,26	4,85	1,31

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

Last change: 02.05.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-055/18	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:
Lecture

Course requirements:
Evaluatuation 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 inhereted and aquired 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 undestanding of relations between altered regulation and clinico-biochemical indentification of pathological processes.The knowledges obtained from lectures and practicals can be applied by student in the study of ethiology, 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 conective tissue

Recommended literature:
D. Dobrota a kol.: Lekárska biochémia. Osveta Martin, 2012. 723 s.
R. K. Murray a kol.: Harperova ilustrovaná biochemie. Galén Praha, 2012. 730 s.
Pathophysiology of diseases, Lange, 2010, 762s
Tatarková Z.: Problémové úlohy k seminárom z lekárskej chémie a biochémie. UK Bratislava, 2013. 89s.

Karlson a spol. Pathobiochemie, Academia, 1988, 238s.
Patronos G.P., Ansorge W.J. Molecular Diagnostics, Elsevier, 2010, 598s

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 21

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 Dobrota, CSc., prof. RNDr. Ján Lehotský, DrSc.

Last change: 18.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPF/J-S-VL-035/17	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-015/16 - Physiology (1) and JLF.ÚLBch/J-S-VL-010/16 - Medical Biochemistry (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:

Nečas E. a kol.: Obecná patologická fyziologie, UK Praha, Karolinum 2021, 312 s. ISBN 978-80-2464-633-6
Nečas E. a kol.: Patologická fyziologie orgánových systémů – Část I, UK Praha, Karolinum 2009, 379 s. ISBN 978-80-2461-711-4
Nečas E. a kol.: Patologická fyziologie orgánových systémů – Část II, UK Praha, Karolinum 2009, 396 s. ISBN 978-80-2461-712-1
Hulín I. a kol. Patofyziológia. Bratislava: ProLitera, 2019. 744 s. ISBN 978-80-89668-05-2
Péčová, R. Vybrané kapitoly z patologickej fyziológie pre študentov študijného programu všeobecné lekárstvo. Bratislava: UK, Martin: JLF, 2015. 88 s. ISBN 978-80-89544-81-3
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
Hanáček, J. a kol. Patologická fyziológia: vybrané kapitoly. Elektronická učebnica pre študentov všeobecného lekárstva s kazuistikami. Dostupné na internete: http://portal.jfmed.uniba.sk/clanky.php?aid=279

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 1109

A	ABS0	B	C	D	E	FX
6,58	0,09	32,28	42,47	15,96	2,52	0,09

Lecturers: prof. MUDr. Renata Péčová, PhD., MPH, MUDr. Martina Neuschlová, PhD., MUDr. Peter Kunč, PhD., prof. RNDr. Mariana Brozmanová, PhD., Mgr. Danica Jurčáková, PhD., RNDr. Michal Pokusa, PhD.

Last change: 08.09.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPF/J-S-VL-036/17	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-016/16 - Physiology (2) and JLF.ÚLBch/J-S-VL-011/17 - Medical Biochemistry (2) and JLF.ÚPF/J-S-VL-035/17 - 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:
Disorders of blood pressure regulation - systemic arterial hypertension, mechanisms of development of primary and secondary hypertension, mechanisms of complications of arterial hypertension. Systemic arterial hypotension – mechanisms, consequences.
Ischemic heart disease (IHD) - mechanisms of development of IHD, mechanisms of electrical and mechanical heart function disorders caused by ischemia, atherosclerosis as the main pathogenic factor of IHD, types of IHD, mechanisms of reperfusion injury. Arrhythmias.

Pathophysiology of heart failure - mechanisms leading to the development and progression of heart failure, mechanisms responsible for systolic and diastolic dysfunction of the heart, for acute and chronic heart failure, for right-sided and left-sided heart failure, mechanisms of heart failure manifestations.
Pathophysiology of valvular heart diseases.
Pathomechanisms of the most common symptoms and signs of cardiovascular diseases.
Disorders of external breathing - mechanisms and causes involved in the onset of ventilation, diffusion, perfusion disorders and changes of ventilation-perfusion ratio; the effect of these disorders on gas exchange in the lungs and on blood gases.
Pathophysiology of obstructive ventilation breathing disorders - pathophysiology of bronchial asthma - etiopathogenesis, manifestations, mechanisms causing gas exchange disorders in the lungs.
Pathophysiology of chronic obstructive pulmonary disease (COPD) – pathogenesis, manifestations, gas exchange disorder.
Lung function tests – parameters of spirographic examination and its interpretation. Disturbances of external ventilation. Disturbances of respiratory system defence mechanisms.
Hypoxia - causes and mechanisms involved in the development of hypoxia, main types of hypoxia and compensatory mechanisms, the impact of hypoxia on the function of tissues, organs and systems of the organism. Hyperoxia – causes, mechanisms responsible for tissue damage in hyperoxia.
Respiratory failure (RF) - causes, types of RF, consequences of RF on the function of body organs and systems.
Pathomechanisms of the most common symptoms and signs of respiratory diseases.
Pathophysiology of glomerular and tubular dysfunctions - causes and mechanisms of glomerular dysfunction, consequences of this disorder on kidney function and homeostasis of the organism; proteinuria, hematuria. Dysfunction of tubular system of the kidney – causes and mechanisms; nephrotic syndrome.
Pathophysiology of acute kidney injury (AKI) and chronic kidney disease (CKD) – etiology, pathogenesis and clinical manifestations; uremic syndrome, mechanisms responsible for multiorgan dysfunction in AKI and CKD.
Pathomechanisms of the most important symptoms and signs of impaired kidney function.
Pathophysiology of gastrointestinal tract disorders – disorders of the esophagus, disorders of the stomach, disorders of the small intestine and colon.
Pathophysiology of liver diseases – types of liver dysfunction, manifestations of liver dysfunction, pathophysiology of selected liver diseases and pathomechanisms of clinical manifestations.
Pathophysiology of endocrine system disorders – general pathomechanisms responsible for hormonal dysfunction; disorders of adrenal medulla and adrenal cortex, disorders of the parathyroids and calcium and phosphorus metabolism, disorders of hypothalamus and pituitary gland, thyroid disease, disorders of the female and male reproductive system.
Electrocardiography. Electrophysiology of the heart, ECG waveforms and intervals, ECG leads. Genesis of the normal ECG. Major ECG abnormalities. Algorithm of ECG evaluation.
Pathogenetic analysis of ECG records with disturbances of impulse formation.
Pathogenetic analysis of ECG records with disturbances of impulse conduction.
Pathogenetic analysis of ECG records 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:

Nečas E. a kol.: Obecná patologická fyziologie, UK Praha, Karolinum 2021, 312 s. ISBN 978-80-2464-633-6
Nečas E. a kol.: Patologická fyziologie orgánových systémů – Část I, UK Praha, Karolinum 2009, 379 s. ISBN 978-80-2461-711-4

Nečas E. a kol.: Patologická fyziologie orgánových systémů – Část II, UK Praha, Karolinum 2009, 396 s. ISBN 978-80-2461-712-1
Hulín I. a kol. Patofyziológia. Bratislava: ProLitera, 2019. 744 s. ISBN 978-80-89668-05-2
Péčová, R. Vybrané kapitoly z patologickej fyziológie pre študentov študijného programu všeobecné lekárstvo. Bratislava: UK, Martin: JLF, 2015. 88 s. ISBN 978-80-89544-81-3
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
Hanáček, J. a kol. Patologická fyziológia: vybrané kapitoly. Elektronická učebnica pre študentov všeobecného lekárstva s kazuistikami. Dostupné na internete: http://portal.jfmed.uniba.sk/clanky.php?aid=279
Hampton R.J., Hampton J.EKG stručně, jasně, přehledně. Preklad 9. vydania, Grada 2022, 288 s. ISBN 978-80-271-1317-0

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 988

A	ABS0	B	C	D	E	FX
50,91	0,0	21,15	18,22	6,07	3,24	0,4

Lecturers: prof. MUDr. Renata Péčová, PhD., MPH, MUDr. Martina Neuschlová, PhD., MUDr. Peter Kunč, PhD., prof. RNDr. Mariana Brozmanová, PhD., RNDr. Michal Pokusa, PhD.

Last change: 01.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-047/24	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: 5

Recommended semester: 8.

Educational level: I.II.

Prerequisites: JLF.IKG/J-S-VL-038/17 - Internal Medicine Propedeutics (2) and JLF.ÚHE/J-S-VL-006/17 - Histology and Embryology (2) and JLF.ÚPF/J-S-VL-036/17 - Pathological Physiology (2)

Course requirements:
90% attendance at lectures and practicals, 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:
Lebl., J. a kol. Preklinická pediatrie. Praha: Galén, karolinum, 2007.248 s.ISBN 80-7262-438-6
Jeseňák, M., Bánovči, P. a kol. Imunitný šlabikár- praktický sprievidcs svetom imunológie nielen pre rodičov. Bratislava: SAMEDI,2013.117s ISBN 978-80-970825-5-0 Michálek,

J., Dostálová, Kopečná, L. Pediatrická propedeutika. Vybrané kapitoly.Brno: Masarykova Univerzita.2010. Jakušová, Ľ.Výživa v detskom veku (elektronický dokument). Martin:JLF UK, 2009. 67 s. CD rom. ISBN 978-80-88866-70-1 Jakušová, Ľ.Dostál, A.Výživa dieťaťa v prvom roku života. Martin: Vydavateľstvo Osveta, 2009. 68 s. ISBN 978-80-8063-325-7 Jeseňá, M., Urbančíková,I. a kol. Očkovanie v špeciálnych situáciách. Praha: Mladá fronta.2013239 s. ISBN978-80-204-2805-9 Maťašová,K. Neonatológia1. Bratislava: UK,2012. 155s. ISBN 978-80-223-3172-2 Kovács.L. a kol. Pediatrická propedeutika. Bratislava: Arete.2014.124 s. ISBN 978-80-970624-4-6 Jeseňák. M., Havlíčeková, Z., Bánovčin, P. a kol. Materské mlieko a dojčeni v kontexte modernej medicíny. Bratislava:A- medi management.2015.337 s. ISBN 978-80-89797-05-9

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 119

A	ABS0	B	C	D	E	FX
72,27	0,0	16,81	7,56	1,68	1,68	0,0

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., doc. MUDr. Zuzana Havlíčeková, PhD., doc. MUDr. Slavomír Nosáľ, PhD., prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA, prof. MUDr. Mirko Zibolen, CSc., prof. MUDr. Katarína Maťašová, PhD., doc. MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., MUDr. Stanislava Suroviaková, PhD., doc. MUDr. Jarmila Vojtková, PhD., MUDr. Otília Petrovičová, PhD., MUDr. Marek Pršo, PhD., MUDr. Vladimír Zoľák, PhD., MUDr. Ján Mikler, PhD., MPH, doc. MUDr. Lucia Časnocha Lúčanová, PhD., doc. MUDr. Tomáš Jurko, PhD., MUDr. Tomáš Bělohlávek, PhD., MUDr. Marián Fedor, PhD., MUDr. Alžbeta Kmecová, MUDr. Zuzana Kubisová, PhD., MUDr. Veronika Kucianová, doc. MUDr. Miroslava Brndiarová, PhD., MUDr. Dušana Genšor, MPH, MUDr. Filip Olekšák, PhD.

Last change: 16.05.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDCh/J-S-VL-086/19	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

Šnajdauf, J., Cvachovec, K., Trč, T. et al: Detská traumatologie. Praha : Galén, 2002. 180 s. ISBN 80-7262-152-1
Puri P.: Pediatric Surgery I, II. Berlin : Springer-Verlag, 2020. 658 s. ISBN 978-3-662-43587-8
Davenport M., Geiger J.: Operative Pediatric Surgery. 8th ed. New York : CRC Press, 2020. 887 p. ISBN 978-0-815-37000-0
Puri p., Hollwarth M.E.: Pediatric Surgery. 2nd ed. Berlin : Springer-Verlag, 2019. 664 p. ISBN 78-3-662-56280-2
Puri P: Newborn Surgery. 2. vyd. London : Arnold, 2003, 955 s. ISBN 0-340-76144-X
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
Journal of Pediatric Surgery
Seminars in Pediatric Surgery

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 162

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

Lecturers: MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., MUDr. Matej Gura, PhD., MUDr. Michal Líška, MUDr. Andrii Pauk, MUDr. Barbora Špaková, PhD., MUDr. Nadežda Višňovcová

Last change: 14.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

STATE EXAM DESCRIPTION

Academic year: 2025/2026	
University: Comenius University Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-SS4/21	**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: Muntau, A. C.:Pediatrie. Praha: Grada, 2009. 581 s. ISBN 978-80-247-2525-3 Niessen, Karl-Heinza kol. :Pediatrie. Praha: Scientia Medica, 1996. 600 s.ISBN 80-8552-629-8 Buchanec, J. a kol.:Vademékum pediatra. Martin: Vydavateľstvo Osveta, 2001.1118 s. ISBN 80-8063-018-6 Jurko, A. a kol.:Vyšetrovacie metódy v detskej kardiológii. Bratislava: UK, l993. l85 s. Skriptá. ISBN 80-223-0596-0 Zibolen, M. a kol.:Praktická neonatológia. Martin: Neografia, 2001. 534 s.ISBN 80-88892-42-2 Bánovčin, P.,Buchanec, J.,Zibolen, M.I. Novitates Paediatrie. Detská gastroenterológia. Martin: Vydavateľstvo Osveta, 2003. 377 s. ISBN 80-8063-099-2 Bánovčin, P.,Buchanec, J.,Zibolen, M.II. Novitates Paediatrie. Vybrané kapitoly z nefrológie. Martin:Osveta, 2006. 290 s. ISBN80-8063-233-2 Fedor, M. a kol.Intenzivní péče v pediatrii. Martin: Vydavateľstvo Osveta, 2006. 461 s ISBN 80-8063-217-0 Kresánek, J.Furková, K. a kol.Dorastové lekárstvo. Martin: Vydavateľstvo Osveta, 2006. 374 s. Jakušová, Ľ.Dostál, A.Výživa dieťaťa v prvom roku života. Martin: VydavateľstvoOsveta, 2003. 76 s. ISBN 80-8063-130-1	

Jakušová, Ľ.Výživa v detskom veku (elektronický dokument). Martin: JLF UK, 2009. 67 s. CD rom. ISBN
978-80-88866-70-1
Šašinka, M., Šagát, T.a kol.Pediatria I.,II. Košice: Satus, 1998. 1168 s.ISBN 80-967963-0-5
Sršeň, Š., Sršňová, K.Základy klinickej genetiky a jej molekulárna podstata.Martin:VydavateľstvoOsveta,2000. 409 s.ISBN 80-8063-021-6
Javorka, K. a kol.Klinická fyziológia pre pediatrov. Martin: Vydavateľstvo Osveta, 1996. 487 s.ISBN 80-2170-512-4

Languages necessary to complete the course:
Slovak language

Last change: 22.07.2021

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-071/19	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-047/24 - 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.: 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:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 855

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

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

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-072/19	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-071/19 - Pediatrics (1)

Course requirements:
90% attendance at practicals, medical record work out at last practical and active discussion with the teacher during practicals

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., 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.: 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:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 670

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

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., doc. MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., doc. MUDr. Zuzana Havlíčeková, PhD., MUDr. Stanislava Suroviaková, PhD., doc. MUDr. Jarmila Vojtková, PhD., prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA, doc. MUDr. Slavomír Nosáľ, PhD., prof. MUDr. Katarína Maťašová, PhD., prof. MUDr. Mirko Zibolen, CSc., MUDr. Otília Petrovičová, PhD., MUDr. Marek Pršo, PhD., doc. MUDr. Miroslava Brndiarová, PhD., MUDr. Vladimír Zoľák, PhD., MUDr. Tomáš Bělohlávek, PhD., MUDr. Marián Fedor, PhD., MUDr. Alžbeta Kmecová, MUDr. Zuzana Kubisová, PhD., MUDr. Veronika Kucianová

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-073/22	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-072/19 - Pediatrics (2) and JLF.KDD/J-S-VL-080/19 - 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 admittion 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, admittion 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.: 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:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 482

A	ABS0	B	C	D	E	FX
86,1	0,0	11,83	2,07	0,0	0,0	0,0

Lecturers: doc. MUDr. Ľubica Jakušová, PhD., doc. MUDr. Miroslava Brndiarová, PhD., prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Zuzana Havlíčeková, PhD., prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA, doc. MUDr. Tomáš Jurko, PhD., prof. MUDr. Katarína Maťašová, PhD., MUDr. Ján Mikler, PhD., MPH, doc. MUDr. Slavomír Nosáľ, PhD., MUDr. Otília Petrovičová, PhD., MUDr. Marek Pršo, PhD., MUDr. Stanislava Suroviaková, PhD., prof. MUDr. Mirko Zibolen, CSc., doc. MUDr. Jarmila Vojtková, PhD., MUDr. Vladimír Zoľák, PhD., doc. MUDr. Lucia Časnocha Lúčanová, PhD., doc. MUDr. Peter Ďurdík, PhD., MUDr. Anna Ďurdíková, PhD., MUDr. Tomáš Bělohlávek, PhD., MUDr. Marián Fedor, PhD., MUDr. Alžbeta Kmecová, MUDr. Zuzana Kubisová, PhD., MUDr. Veronika Kucianová

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-029/21	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.ÚLBch/J-S-VL-011/17 - Medical Biochemistry (2) and JLF.ÚPF/J-S-VL-035/17 - Pathological Physiology (1)

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. Presentation of pharmacotherapeutic plan.
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:
• Pharmacological groups of agents influencing 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:

Mirossay, L., Mojžiš, J. a kol.: Základná farmakológia a farmakoterapia I. + II, Equilibria, 2021.
Ritter JM, Flower RJ, Henderson G, Loke YK, MacEwan D, Robinson E, Fullerton J. Rang & Dale's Pharmacology. 10th ed. Elsevier; 2023.
Katzung, B.G.: Basic Clinical Pharmacology, 19 th edition, New York : McGraw-Hill, 2021.
www.ema.europa.eu

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 665

A	ABS0	B	C	D	E	FX
15,34	0,0	47,67	22,11	10,98	3,91	0,0

Lecturers: prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., prof. MUDr. Martina Šutovská, PhD., doc. MUDr. Marta Jošková, PhD., doc. PharmDr. Martin Kertys, PhD., Mgr. Eduard Gondáš, PhD., PharmDr. Nela Žideková, PhD., Mgr. Matúš Dohál, PhD., PharmDr. Michaela Krivošová, PhD., Mgr. Jozef Mažerik, PhD.

Last change: 04.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-030/21	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-029/21 - Pharmacology (1) and JLF.ÚPF/J-S-VL-036/17 - Pathological Physiology (2)

Course requirements:
During semester: The successful passing twoo 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:
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:

Mirossay, L., Mojžiš, J. a kol.: Základná farmakológia a farmakoterapia I. + II, Equilibria, 2021.
Ritter JM, Flower RJ, Henderson G, Loke YK, MacEwan D, Robinson E, Fullerton J. Rang & Dale's Pharmacology. 10th ed. Elsevier; 2023.
Katzung, B.G.: Basic Clinical Pharmacology, 19 th edition, New York : McGraw-Hill, 2021.
www.ema.europa.eu

Languages necessary to complete the course:

Slovak language

Notes:

Past grade distribution

Total number of evaluated students: 563

A	ABS0	B	C	D	E	FX
34,1	0,0	25,22	18,65	10,12	9,24	2,66

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

Last change: 04.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KPF/J-S-VL-061/19	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-018/17 - Microbiology (2) and JLF.ÚFa/J-S-VL-029/21 - Pharmacology (1) and JLF.IK1/J-S-VL-041/19 - 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): 1credit

Learning outcomes:
Student learns the current knowledge on epidemiology, clinical picture, diagnostics, differential diagnostics, treatment and prevention of tuberculosis.

Class syllabus:
Lectures:
1. Etiology, pathogenesis, epidemiology and clinical picture of pulmonary tuberculosis
2. Diagnosis of pulmonary tuberculosis. Classification of tuberculosis
3. Treatment of tuberculosis. Extrapulmonary tuberculosis. Non-tuberculous mycobacteriosis
Exercises:
In the case of full-time teaching:
1. Clinical manifestations of pulmonary tuberculosis, classification of tuberculosis. Examination of patients - analysis of subjective difficulties and objective physical findings.
2. Diagnostic examination methods. Differential diagnosis, Treatment of tuberculosis. Analysis of patients examined during the first practical exercise with regard to the compilation of a plan of auxiliary examinations for diagnostics and differential diagnosis, compilation of a treatment plan. At the end of the second practical exercise, a final evaluation in the form of a written test. Alternatively, the test can be performed online in the Moodle environment.
In the case of distance learning:

The content of both exercises is combined into one meeting in MS Teams. The teacher presents several interactive case reports. Within each of them, students present their opinion on the process of diagnosis, differential diagnosis and treatment by means of online voting. The results of voting are presented and commented by the teacher.
The final online evaluation in the Moodle environment follows.

Recommended literature:

Rozborilová, E., Solovič, I. a kol.: Tuberkulóza a mykobakteriózy. Vydavateľstvo UK Bratislava, 2009, 84s. ISBN 978-80-223-2577-6.
Solovič, I., Vašáková, M., et al.: Tuberkulóza ve faktech i obrazech. Maxdorf Jessenius, 2019, 406 s. ISBN:978-80-7345-613-9
Ďuriš, I. a kol. autorov: Princípy internej medicíny. 1. 2. 3. diel. Bratislava, SAP 2001, 2951s.
Mokáň, M. a kol.: Vnútorné lekárstvo. I. diel. Vyd. UK

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 738

A	ABS0	B	C	D	E	FX
73,98	0,0	18,16	4,47	2,57	0,68	0,14

Lecturers: doc. MUDr. Robert Vyšehradský, PhD., MUDr. Anna Ružinák Bobčáková, PhD., MUDr. Ján Červeň, MPH, MUDr. Ľuboš Hamada, MUDr. Ján Lazor, MUDr. Ivana Lipták Žiačiková, MUDr. Terézia Kozáková, MUDr. Mária Kyselová

Last change: 04.09.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KTL/J-S-VL-139/22	Physiatry and Rehabilitation

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.NlK/J-S-VL-045/25 - Neurology and JLF.OTK/J-S-VL-070/22 - Ortopedics

Course requirements:
To participate actively in the practical sessions. To successfully pass oral testing.

Learning outcomes:
After completion of the course the student obtains knowledge of diagnostics and treatment in the field of Physical Medicine, Rehabilitation Medicine and Balneology. The student understands basic physiotherapeutic procedures and selected special methods of functional disorders treatment. The teaching will focus on the diagnosis and rehabilitation treatment of musculoskeletal disorders in Internal Medicine, Orthopedy, Neurology, Surgery and Pediatrics. Student is able to use the acquired theoretical background when working with a patient in an outpatient clinic.

Class syllabus:
Physical and Rehabilitation Medicine, Balneology – definition, history, goals, sections, methods, examinations, staff
Physical Medicine
Physiotherapy methods – types, principles, indications, contraindications, benefits
Rehabilitation in the field of basic medical disciplines – Internal Medicine, Orthopedy, Neurology, Surgery and Pediatrics
Back Pain, principles of Manual musculoskeletal Medicine

Recommended literature:
Maitin, I.: Current Diagnosis and treatment Physical Medicine and Rehabilitation, McGraw-Hill, 2014. 752 pp.
Gonzales-Fernandez: Handbook Physical Medicine and Rehabilitation, Springer Publishing Co Inc, 2021. 1364 pp.

Languages necessary to complete the course:
Slovak

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: prof. MUDr. Dušan Meško, PhD., MUDr. Janka Hamžíková

Last change: 07.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV1/22	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: 494

ABS0	M
100,0	0,0

Lecturers: PaedDr. Jozef Šimeček

Last change: 08.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV2/22	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: 322

ABS0	M
100,0	0,0

Lecturers: PaedDr. Jozef Šimeček

Last change: 08.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV3/22	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: 352

ABS0	M
100,0	0,0

Lecturers: PaedDr. Jozef Šimeček

Last change: 08.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV4/22	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: 208

ABS0	M
100,0	0,0

Lecturers: PaedDr. Jozef Šimeček

Last change: 08.03.2022
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFy/J-S-VL-015/25	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: 10

Recommended semester: 3.

Educational level: I.II.

Prerequisites: JLF.ÚLBf/J-S-VL-004/15 - Medical Biophysics and JLF.ÚA/J-S-VL-001/24 - 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:
Basic:
Javorka K a kol.: Lekárska fyziológia: 1. a 2. diel. 5. prepracované a doplnené vydanie. Martin: Osveta, 2021, 791s. ISBN: 978-80-8063-978-80-8063-496-4.

Čalkovská A a kol.: Návody k praktickým cvičeniam z fyziológie. Bratislava: UK, 2020, 153 s. 5. vydanie ISBN: 978-80-223-4983-3.
Recommended:
Javorka K. a kol.: Variabilita frekvencie srdca. Mechanizmy, hodnotenie, klinické využitie. Martin,Osveta, 2008, 204 s. ISBN 978-80-8063-269-4
Čalkovská A. a kol.: Pľúcny surfaktant: z laboratória k pacientovi, 1.vyd., Martin, Osveta, 2013, 222 s. ISBN 978-80-8063-401-8
Ferencová N, Višňovcová Z Fyziológia v kazuistikách. Vysokoškolské skriptá. Martin: JLF UK – Portál MEFANET, 2025, 188 s. ISBN: 978-80-8187-167-2 http: //portal.jfmed.uniba.sk

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 153

A	ABS0	B	C	D	E	FX
39,22	0,65	47,06	11,11	1,96	0,0	0,0

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., RNDr. Pavol Mikolka, PhD., MUDr. Zuzana Lazarová, PhD., MUDr. Ivan Žila, PhD., RNDr. Nikoleta Mažgútová, PhD.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFy/J-S-VL-016/16	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.ÚFy/J-S-VL-015/25 - 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:
Basic:

Javorka K a kol.: Lekárska fyziológia: 1. a 2. diel. 5. prepracované a doplnené vydanie. Martin: Osveta, 2021, 791s. ISBN: 978-80-8063-978-80-8063-496-4.
Čalkovská, A. a kol. Návody k praktickým cvičeniam z fyziológie. 5. vyd. Bratislava: UK, 2020. 153 s.
ISBN 978-80-223-4983-3
Recommended:
Javorka K. a kol.: Variabilita frekvencie srdca. Mechanizmy, hodnotenie, klinické využitie. Martin,
Osveta, 2008, 204 s. ISBN 978-80-8063-269-4
Čalkovská A. a kol.: Pľúcny surfactant: z laboratória k pacientovi, 1. vyd., Martin, Osveta, 2013, 222 s. ISBN 978-80-8063-401-8
Ferencová N, Višňovcová Z Fyziológia v kazuistikách. Vysokoškolské skriptá. Martin: JLF UK – Portál MEFANET, 2025, 188 s. ISBN: 978-80-8187-167-2
http: //portal.jfmed.uniba.sk

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 1163

A	ABS0	B	C	D	E	FX
52,02	0,0	15,91	14,45	7,39	6,53	3,7

Lecturers: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Michal Javorka, PhD., prof. MUDr. Kamil Javorka, DrSc., prof. MUDr. Daniela Mokrá, PhD., prof. MUDr. Ingrid Tonhajzerová, PhD., MUDr. Zuzana Lazarová, PhD., MUDr. Ivan Žila, PhD., RNDr. Pavol Mikolka, PhD., RNDr. Nikoleta Mažgútová, PhD.

Last change: 20.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.PK/J-S-VL-048/24	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: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites: JLF.PK/J-S-VL-032/17 - Medical Psychology and Basics of Communication

Course requirements:
Course completion conditions:
- participation in practicals at least 12 times
- favourable results during running controls
Methods of control of study results:
- by the end of week 7: control questions from the curriculum during practical exercises; examination of the patient with case analysis
- by the end of week 14: written test; patient examination; control questions from the curriculum
Evaluation of the results of running controls:
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): 100/0

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:
P R O G R A M M E O F L E C T U R E S I N P S Y C H I A T R Y
1. Introduction to psychiatry. Basic concepts. Etiology and pathogenesis of mental disorders. Epidemiology in psychiatry.
2. Psychopathology I. Disturbances of perception. Disturbances of thinking. Disturbances of memory.
3. Psychopathology II. Disturbances of emotions. Disturbances of will and action. Disturbances of consciousness and attention. Disturbances of sleep.
4. Psychopathology III. Disturbances of intelligence. Disturbances of personality.
5. Methods of psychiatric therapy I. Psychopharmacotherapy
6. Methods of psychiatric therapy II. Psychotherapy and other therapeutic methods.

7. Syndromology of mental disorders. Principles of classification in clinical psychiatry.
P R O G R A M M E O F P R A C T I C A L S E S S I O N S I N P S Y C H I A T R Y
1. Disturbances of consciousness. Quantitative and qualitative disturbances of consciousness. Sleep disorders.
2. Disturbances of perception. Hallucinations and illusions, gnostic and psychosensoric disturbances.
3. Intellectual impairment. Retardation and degradation of intellectual abilities.
4. Disturbances of emotion.
5. Disturbances of thinking. Disturbances of speed of thinking, disturbances of structure of thinking, delusions.
6. Disturbances of memory. Quantitative and qualitative disturbances of memory.
7. Disturbances of motor activity, disturbances in behavior. Catatonic disturbances.
8. Disturbances of personality. Global and special disturbances of personality.
9. Syndromes in Psychiatry. Emotional syndromes, syndromes of disturbed consciosness, syndromes of disturbed motor activity and behavior, paranoid syndromes, asthenic syndromes, syndromes of organic lesions.
10. Mental status examination. Basic principles of the examination of psychiatric patients. Observation, description of the patient´s behavior, interview. Mental status examination of patients of different diagnostic groups. Mental status examination of psychotic and non - psychotic patients. Special approaches to the examination according to diagnostic groups. 11. Therapeutic methods in Psychiatry.
12. Psychiatric report, written record. Some practical questions of the examination of patients in psychiatry. Structure and parts of psychiatric report.
13. Laboratory tests in Psychiatry. Overview of laboratory tests frequently used in psychiatry. Significance and value of laboratory tests in diagnosis of mental disorders. Significance of psychodiagnosis /neuropsychological testing.
14. Compensatory week. It is determined for substitution, consultation and signature of Psychiatry I evaluation after fulfillment of all requirements.

Recommended literature:

Kolibáš, E. a kol. Všeobecná psychiatria. Bratislava: UK, 2007. 183 s. ISBN 978-80-223-2388-8
Novotný, V. kol. Špeciálna psychiatria. Bratislava: UK, 2010. 248 s. ISBN 978-80-223-2624-7
Hosák, L., Hrdlička, M., Libiger, J. a kol. Psychiatrie a pedopsychiatrie. Praha: Univerzita Karlova Nakladatelství Karolínum 2019. 647 s. ISBN 978-80-246-2998-8
Höschl, C. a kol. Psychiatrie. Praha: Tigis, 2004. 883 s. ISBN 80-900130-1-5
Raboch, J., Zvolský, P. a kol. Psychiatrie. Praha: Galén, 2001. 622 s. ISBN 80-246-0390-X
Kafka, J. a kol. Psychiatria. Martin: Osveta, 1998. 255 s. ISBN 80-2170-514-0
Ondrejka, I. Depresia v kontexte kvality života. Rožňava: Roven, 2006. 126 s. ISBN 80-89168-15-9
Dušek, K., Večeřová-Procházková, A. První pomoc v psychiatrii. Praha: Grada Publishing, 2005. 176 s. ISBN 80-247-0197-9
Hort, V. a kol. Dětská a adolescentní psychiatrie. Praha: Portál, 2000. 496 s. ISBN 80-7178-472-9
Pečeňák, J., Kořínková, V. et al.: Psychofarmakológia. Wolters Kluwer, 2016. 672 s. ISBN 978-80-8168-542-2
Kolibáš, E., Novotný, V.: Alkohol, drogy, závislosti. Bratislava UK, 2007. 257 s. ISBN 978-80-223-2315-4

Languages necessary to complete the course:

slovak

Notes:

Past grade distribution
Total number of evaluated students: 236

A	ABS0	B	C	D	E	FX
62,71	0,0	22,46	9,32	5,08	0,42	0,0

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., MUDr. Zuzana Mlynčeková, PhD.

Last change: 12.02.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.PK/J-S-VL-049/24	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: 8.

Educational level: I.II.

Prerequisites: JLF.PK/J-S-VL-048/24 - Psychiatry (1)

Course requirements:
Conditions for enrollment in the exam:
- participation in practicals 12 times
- favorable results of ongoing controls
- successful completion of the test

Methods of continuous control:
- by the end of week 14: control questions from the curriculum during practical exercises, examination of the patient with case 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%
Share of continuous control in the final evaluation of the course: 20%
Exam: practical exam (examination of the patient with case analysis during practical exercises), oral exam event. examination in the form of a test in general and special psychiatry
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:
P R O G R A M M E O F L E C T U R E S I N P S Y C H I A T R Y
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. Child and adolescent psychiatry.
P R O G R A M M E O F P R A C T I C A L S E S S I O N S I N P S Y C H I A T R Y
1. Affective disorders I. Depressive disorders. Manic episode.
2. Affective disorders II. Bipolar affective disorder. Persistent affective states. Other affective disorders and affective disorders not otherwise specified. Differential diagnosis and treatment of affective disorders.
3. Schizophrenia.
4. Persistent delusional disorders. Delusional disorders (paranoia), paraphrenia.
5. Schizotypal disorder. Schizoaffective disorders.
6. Reactive disorders, neurotic disorders. Posttraumatic stress disorder. Adjustment disorder. Neurosis, somatoform disorders .
7. Personality disorders and conduct disorders. Specific personality disorders.
8. Alcoholism. Clinical findings, complication, alcoholic psychoses.
9. Other drug dependences. Clinical findings, intoxication, and withdrawal phenomena.
10. Symptomatic mental disorders. Symptomatic and organic mental disorders. Basic concepts, clinical features, diagnosis, treatment.
11. Organic mental disorders. Dementias and other organic mental disorders. Mental retardation.
12. Child psychiatry. Mental disorders of childhood and adolescence. Eating disorders. Diagnosis and treatment.
13. Psychiatric sexology. Sleep disorders. Some legal aspects and matters of organization in psychiatry. Practical aspects of care in psychiatry. Forensic services.
14. Compensatory practical session.

Recommended literature:

Kolibáš, E. a kol. Všeobecná psychiatria. Bratislava: UK, 2007. 183 s. ISBN 978-80-223-2388-8
Novotný, V. a kol. Špeciálna psychiatria. Bratislava: UK, 2010. 248 s. ISBN 978-80-223-2624-7
Pečeňák, J., Kořínková, V. a kol. Psychofarmakológia. Bratislava: Wolters Kluwer, 2016. 672 s. ISBN 987-80-8168-542-2 Hosák, L., Hrdlička, M., Libiger, J. a kol. Psychiatrie a pedopsychiatrie. Praha: Univerzita Karlova Nakladatelství Karolínum 2019. 647 s. ISBN 978-80-246-2998-8, ISBN 978-80—246-3011-3 (pdf) Bleuler, E. Učebnica psychiatrie (Vybrané kapitoly). 15.vyd. Trenčín: Vydavateľstvo F, 1998 (dotlač 2015). 332 s. ISBN 80-967277-6-1
Raboch, J. a kol. Psychiatrie. Praha: Karolinum, 2013 (dotlač) . 466 s. ISBN 978-80-246-1985
Psychiatrie. Praha: Galén, 2001. 622 s. ISBN 80-246-0390-X
Langmeier, J. a kol. Psychická deprivace v dětství. Praha: Karolinum, 2011. 399 s. ISBN 978-80-246-1983-5 Kolibáš, E. Príručka klinickej psychiatrie. Nové Zámky: Psychoprof, 2010. 304 s. ISBN 978-80-89322-05-3 Jirák, R. a kol. Demence a jiné poruchy paměti. Praha: Grada 2009. 164 s. ISBN 978-80-247-2454-6
Kafka, J. a kol. Psychiatria. Martin: Osveta, 1998. 255 s. ISBN 80-2170-514-0
Höschl, C. a kol. Psychiatrie. Praha: Tigis, 2004. 883 s. ISBN 80-900130-1-5
Ondrejka, I. Depresia v kontexte kvality života. Rožňava: Roven, 2006. 126 s. ISBN 80-89168-15-9
Dušek, K., Večeřová-Procházková, A. První pomoc v psychiatrii. Praha: Grada, 2005. 176 s. ISBN 80-247-0197-9 Hort, V. a kol. Dětská a adolescentní psychiatrie. Praha: Portál, 2000. 496 s. ISBN 80-7178-472-9
Kolibáš, E., Novotný, V.: Alkohol, drogy, závislosti. Bratislava UK, 2007. 257 s. ISBN 978-80-223-2315-4

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 118

A	ABS0	B	C	D	E	FX
70,34	0,0	27,12	1,69	0,85	0,0	0,0

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD., MUDr. Miloslav Oppa, PhD., MUDr. Andrea Gurová, PhD., MUDr. Zuzana Mlynčeková, PhD.

Last change: 12.02.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-117/19	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-016/16 - Physiology (2) and JLF.IKG/J-S-VL-037/17 - Internal Medicine Propedeutics (1) and JLF.ÚO/J-S-VL-031/17 - Ethics in medicine

Recommended prerequisites:
Physiology 2, Internal Medicine Propedeutics 1, Medical Ethics

Course requirements:
Evaluation
Full (100%) attendance at the seminars 13 x 2 points max. 26 points
Ppt presentations (each student prepares 2 themes per 7 points max. 14points
multiple choice exam test max. 60 points
The respective teacher can honour exceptional activity of a student by maximally 2 points.
In selected seminars, knowledge on the problem taught during the respective seminar will be verified by short written test. Students complete the pre-term test online in the e-learning moodle module on the exam day.
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 preterm (in 14th week of the semester) only students having full attendance in seminars (100%) and had presented two seminar works are eligible
For successful completion of the course, at least 60 points in final evaluation are needed.
Scale of assessment (preliminary/final): 40/60

Learning outcomes:

After completion of the subject the student understands the role of hygiene (as a preventive medical branch) within public health in advocacy of regional and national health politics. The student understands theoretical knowledge and practical skills about risk factors in living and occupational environment, measures to improve health, and preventive strategies in the population. The student is able to apply methods of monitoring of population health, its indicators, morbidity, mortality, social determinants of health, health statistics. The student understands organization of health services, health care of a population, health education, health promoting and preventive programs, essential health related legislative norms and relevant laws. The student is able to apply knowledge to consistent preventive thinking and to act in health related issues, to appropriately interpret and implement health promotion and protection, prevention of diseases and relevant research.

Class syllabus:

Public Health in Slovakia – aim, goals, tasks, cooperation, management. World Health Organization (WHO), Red Cross Society, European Centre for Disease Control (ECDC). Public health issues in developing and developed countries. Prevention in public health. Hygiene-epidemiological regime in health care facilities. Hospital hygiene. Environmental hygiene. Preventive occupational health. Radiation hygiene. Hygiene of children and adolescents. Nutritional hygiene. Taking care of human body. Basic demographic indicators, health status of population and its indicators. Social determinants of health. Evidence based public health. Organization of healthcare system. Crisis Management in a public health. Screening, dispensarization. Health information system. Education of healthcare professionals. System of sickness and pension insurance.

Recommended literature:

Obligatory literature:

Jurkovičová J. a kol. Hygiena. Bratislava: Vydavateľstvo UK, 2020. 482 s. ISBN 978-80-223-4905-5

https://moodle.uniba.sk

Recommended literature:

HUDEČKOVÁ, H., ŠVIHROVÁ, V., NOVÁKOVÁ, E., SZILÁGYIOVÁ, M.: Verejnozdravotné aspekty osýpok. Bratislava: A-medi managment, 2018, 84 s., ISBN 978-80-89797-29-5

ONDRUŠ, P. Svetové zdravotnícke systémy v čase globalizácie. P+M, Turany, 2014. 320 s. ISBN 978-80-89057-47-4

Zákony: 576/2004; 577/2004; 578/2004; 579/2004; 461/2003 a ich novelizácie.

http://www.who.int/phe/health_topics/en/

OZOROVSKÝ V. a kol.: Sociálne lekárstvo. Bratislava: Asklepios, 2011. 166 s. ISBN 978-88-7167-158-9

Šulcová, M., Čižmár, I., Fabiánová E. Verejné zdravotníctvo. Bratislava: Veda, 2013, 651 s., ISBN 978-80-224-1283-4

Legáth, Ľ., Buchancová, J. a kol. Pracovné lekárstvo. Vybrané kapitoly I. Martin: Osveta, 2020, 295 s. ISBN 978-80-8063-493-3

Languages necessary to complete the course:

slovak, czech, english

Notes:

Past grade distribution

Total number of evaluated students: 893

A	ABS0	B	C	D	E	FX
84,66	0,0	13,89	1,12	0,34	0,0	0,0

Lecturers: prof. MUDr. Henrieta Hudečková, PhD., MPH, prof. MUDr. Tibor Baška, PhD., prof. MUDr. Viera Švihrová, CSc., Mgr. Mária Tatarková, PhD., Mgr. Eva Malobická, PhD., PhDr. Mgr. Martin Novák, PhD., Mgr. Miroslava Sovičová, PhD., doc. PhDr. Romana Ulbrichtová, PhD., Mgr. Eliška Štefanová, PhD., Mgr. Jana Zibolenová, PhD., doc. PhDr. Simona Kelčíková, PhD.
Last change: 22.08.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-118/19	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-117/19 - Public Health (1) and JLF.KICM/J-S-VL-067/19 - Infectology

Recommended prerequisites:
Public Health 1, Infectology

Course requirements:
EVALUATION OF THE COURSE
Attendance at the practicals: 3 points for each session max. 12 points
Pre-exam test: 14 questions – 2 points each max. 28 points
Final oral examination (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): 40/60

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:

Significance of epidemiology for population health. Principles of infectious diseases control, preventive and repressive measures in theory and practice. Epidemiological methods, 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. Prevention of hospital infections. 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 aetiology of non-communicable diseases. Causality and epidemiological evaluation of risk factors. Interconnection between epidemiological methods and practice. Current issues in epidemiology in European and Global context, a role of international institutions (WHO, ECDC).

Recommended literature:

Obligatory literature:

BAZOVSKÁ, S. a kol.: Špeciálna epidemiológia. 2. doplnené a aktualizované vydanie Bratislava: UK, 2017. 366 s. ISBN 978-80-223-4179-0

BAKOSS, P. a kol.: Epidemiológia. 4. vydanie. Bratislava, Univerzita Komenského 2013. 517 s. ISBN 978-80-223-3499 0

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

BRAŽINOVÁ, A.: Epidemiologické metódy a ich uplatnenie v epidemiológii vybraných ochorení. Bratislava, Univerzita Komenského 2020, 70 s., ISBN 978-80-223-4982-6

https://moodle.uniba.sk

Recommended literature:

Úrad verejného zdravotníctva SR. Očkovanie. http://www.uvzsr.sk/index.php?option=com_content&view=article&id=2217&Itemid=117

Languages necessary to complete the course:

slovak

Notes:

Past grade distribution

Total number of evaluated students: 743

A	ABS0	B	C	D	E	FX
77,52	0,0	16,02	5,92	0,4	0,13	0,0

Lecturers: prof. MUDr. Henrieta Hudečková, PhD., MPH, prof. MUDr. Tibor Baška, PhD., Mgr. Eva Malobická, PhD.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.RK/J-S-VL-122/18	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: 7.

Educational level: I.II.

Prerequisites: JLF.ÚLBf/J-S-VL-004/15 - Medical Biophysics and JLF.ÚA/J-S-VL-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - 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 # 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 of 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 # Definitions: Artificial Intelligence (AI), Machine Learning (ML), Deep Learning (DL), Artificial Neural Network (ANN), Deep neural network (DNN):
- Fundamentals of Artificial Intelligence: Supervised, unsupervised, reinforcement learning. Algorithm development. Data sharing.
- Deep learning and its applications in medical imaging (Classification, Detection, Segmentation, Image enhancement)
- Possible benefits, risks, available evidence and future with AI 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 # The possibilities of AI 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 # Use of AI in chest radiology and 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). Hybrid imaging techniques. PACS. Artificial intelligence. Principles of radiation protection. 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. Heřman M. Základy radiologie Univerzita Palackého v Olomouci 2014 ISBN 9788024429014
2. Zeleňák K., Števík M., et al. Atlas elementárnych rádiologických nálezov - I. diel Vydavateľstvo P + M 2017 ISBN 9788089694297
3. Zeleňák K., Števík M., et al. Atlas elementárnych rádiologických nálezov - II. diel P + M 2020 ISBN: 978-80-89694-68-
6
Additional literature
4. Ferda J., et al. Základy zobrazovacích metod Galén 2015 ISBN 978-80-7492-164-3
5. Ferda J., et al. Inovativní zobrazovací metody Galén 2015 ISBN 987-80-7492-186-5
6. Súkupová L. Radiační ochrana při rentgenových výkonech - To nejdůležitější v praxi Grada 2018 ISBN 9788027107094
7. 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
8. Geschwind J., et al. Abrams' Angiography: Interventional Radiology - 3rd edition Lippincott Williams & Wilkins 2013 ISBN13: 978-1609137922
9. Zeleňák 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
10. 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/diagnostictechniques-and-surgical-management-of-brain-tumors/therapeutic-embolization-of-cranial-tumors
11. Zeleňák K., et al. How to Improve the Management of Acute Ischemic Stroke by Modern Technologies, Artificial Intelligence, and New Treatment Methods. Life (Basel). 2021 May 27;11(6):488. doi: 10.3390/life11060488. PMID: 34072071; PMCID:

PMC8229281.Life (Basel) 2021 DOI: 10.3390/life11060488
https://www.mdpi.com/2075-1729/11/6/488/pdf
12. Zeleňák K., et al. Embolization of Ruptured Infratentorial Pial AVM in Pregnancy Life (Basel) 2023 DOI: 10.3390/life13040896
https://www.mdpi.com/2075-1729/13/4/896

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 1022

A	ABS0	B	C	D	E	FX
47,46	0,0	22,8	14,68	6,16	3,72	5,19

Lecturers: prof. MUDr. Kamil Zeleňák, PhD., MUDr. Martin Števík, PhD., MPH, MUDr. Ján Sýkora, PhD., MUDr. Martin Vorčák, PhD., MUDr. Adam Krkoška, MUDr. Anna Lazorová, MUDr. Marianna Nehajová, MUDr. Štefánia Vetešková

Last change: 11.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPF/J-S-VL-092/19	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 (reliabity): 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 analysing of a scientific information. Development of a research project. Research process and its phases. Kinds of research within health sciences. Publishing and presenting of research results. Ethics of scientific work and presentation of results. Scientometry. Evidence based medicine. 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:

slovak, 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., prof. MUDr. Ján Švihra, PhD., Mgr. Jana Zibolenová, PhD.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.CPMV/J-S-VL-138/22	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: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Not applicable

Course requirements:
100% attendance
Scale of assessment (preliminary/final): final evaluation

Learning outcomes:
Cognitive Domain (Knowledge) – Student
1. Lists the basic management algorithms for acute conditions (anaphylaxis, shock, ACS, stroke, intoxications, failure of vital functions).
2. Describes the competencies of individual members of the healthcare team (physician, nurse) in emergency situations.
3. Explains the principles of effective team communication in the context of SBTT (Simulation-Based Team Training).
4. Differentiates types of emergency conditions and their clinical manifestations.
5. Evaluates the importance of interprofessional collaboration in the provision of healthcare.
Psychomotor Domain (Skills) – Student
1. Performs basic procedural tasks: securing IV access, applying ECG, defibrillation, intubation, oxygenation, ABCDE assessment.
2. Applies emergency medicine algorithms in simulated clinical scenarios.
3. Coordinates team activities during the simulation of an acute condition.
4. Responds to changes in the patient's clinical status in a simulated environment.
5. Evaluates the effectiveness of team collaboration after simulation through debriefing.
Affective Domain (Attitudes) – Student
1. Demonstrates respect and a professional approach toward team members during simulation.
2. Participates in team discussions and decision-making in stressful situations.
3. Reflects on personal mistakes and learns from them during debriefing.
4. Promotes a culture of patient safety through effective communication.
5. Recognizes the importance of interprofessional education for clinical practice.

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 Comprehesive Textbook of Simulation in Medicine. ISBN-13: 978-1461459927, Springer

Michaelsen 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:

Slovak Language

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. Jana Plevková, PhD.

Last change: 06.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-114/19	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-117/19 - Public Health (1)

Recommended prerequisites:
Public health 1

Course requirements:
ppt (50 p.), test (50 p.)
100-91 A; 90-81 B; 80-79 C; 72-66 D; 65-60 E; 59 and less Fx
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:
Povinná literatúra:
Ptáček, R. a kol.: Etické problémy medicíny na prahu 21. století. GRADA Praha, 2014, s. 520, ISBN 978-80-247-5471-0
Odporúčaná literatúra:
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:
slovak, czech

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. PhDr. Simona Kelčíková, PhD.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KTL/J-S-VL-053/25	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-038/17 - Internal Medicine Propedeutics (2)

Course requirements:
Seminar work. Student work rating is a test; a minimum success rate: 50 %. Grading: A: 90–100 %, B: 80 %, C: 70 %, D: 60 %, E: 50 %, FX: 0-40 %
Scale of assessment (preliminary/final): final

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:
Body motion as a life basis.
Body systems and organs reactions on physical exercise in different environmental conditions, including age, gender and health conditions dependence. The impact of regular training on human biological systems (musculoskeletal system, cardiovascular and respiratory system, metabolic capacity, central nervous and endocrine system).
Basic preventive medical examination of athletes (history, physical examination, laboratory techniques, anthropometry, dynamometry, examination of the cardiovascular system, physiological murmur, contraindication for sport).
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 (athletes heart, physiological enlargement of the heart).
Exercise electrocardiographic testing (indication, contraindication, methods, evaluation of findings).
Nutrition and dietetics in healthy people and athletes (increase and decrease of body weight, saccharide loading, nutrition before/during/after competition, multisuplementation). Losing and gaining the weight.

Functional-diagnostic examination in some diseases, prescription of physical exercise in some diseases.
Doping, sudden cardiac death during sport activities. Cardio-pulmo-cerebral resuscitation – basic princpíples.
Environmental conditions and sport (heat, cold, altitude, water).
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, multisuplementation) 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.smasa.asn.au/fact_elbow_pain.html, http://www.sportsmedicine.com/
Textbooks of: physiology, pathophysiology, internal medicine, sports medicine etc.

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. Dušan Meško, PhD.

Last change: 10.07.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-098/17	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:
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 yeary updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.

Recommended literature:
JAVORKA, Kamil, HANÁČEK, J. a kol. Základy vedeckej práce. Skriptá, JLF UK, 2008. KATUŠČÁK, D. 1998. Ako písať vysokoškolské a kvalifikačné práce. 2. doplnené vydanie. Bratislava : Stimul, 1998. 121 s. ISBN 80-85697-69-6. KIMLIČKA, Štefan. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre „klasické“ aj elektronické zdroje. Bratislava : Stimul, 2002. 82 s. ISBN 80-88982-57-X. MEŠKO, D., KATUŠČÁK, D. et al. 2004. Akademická príručka. Martin : Vydavateľstvo Osveta, 2004. 316 s. ISBN 80-8063-150-6. NEMČEKOVÁ, M. 2003. Výskumný proces a jeho fázy. In Ošetrovateľstvo: teória a vedecký výskum. In : Žiaková, K. et al. Martin: Vydavateľstvo Osveta, 2003. 319 s. ISBN 80-8063-131-X.

Languages necessary to complete the course:
Slovak

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. RNDr. Michal Šimera, PhD.

Last change: 29.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-099/18	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 yeary updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.

Recommended literature:
JAVORKA, Kamil, HANÁČEK, J. a kol. Základy vedeckej práce. Skriptá, JLF UK, 2008. KATUŠČÁK, D. 1998. Ako písať vysokoškolské a kvalifikačné práce. 2. doplnené vydanie. Bratislava : Stimul, 1998. 121 s. ISBN 80-85697-69-6. KIMLIČKA, Štefan. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre „klasické“ aj elektronické zdroje. Bratislava : Stimul, 2002. 82 s. ISBN 80-88982-57-X. MEŠKO, D., KATUŠČÁK, D. et al. 2004. Akademická príručka. Martin : Vydavateľstvo Osveta, 2004. 316 s. ISBN 80-8063-150-6. NEMČEKOVÁ, M. 2003. Výskumný proces a jeho fázy. In Ošetrovateľstvo: teória a vedecký výskum. In : Žiaková, K. et al. Martin: Vydavateľstvo Osveta, 2003. 319 s. ISBN 80-8063-131-X.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 17

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: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-100/18	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 yeary updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.

Recommended literature:
JAVORKA, Kamil, HANÁČEK, J. a kol. Základy vedeckej práce. Skriptá, JLF UK, 2008. KATUŠČÁK, D. 1998. Ako písať vysokoškolské a kvalifikačné práce. 2. doplnené vydanie. Bratislava : Stimul, 1998. 121 s. ISBN 80-85697-69-6. KIMLIČKA, Štefan. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre „klasické“ aj elektronické zdroje. Bratislava : Stimul, 2002. 82 s. ISBN 80-88982-57-X. MEŠKO, D., KATUŠČÁK, D. et al. 2004. Akademická príručka. Martin : Vydavateľstvo Osveta, 2004. 316 s. ISBN 80-8063-150-6. NEMČEKOVÁ, M. 2003. Výskumný proces a jeho fázy. In Ošetrovateľstvo: teória a vedecký výskum. In : Žiaková, K. et al. Martin: Vydavateľstvo Osveta, 2003. 319 s. ISBN 80-8063-131-X.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 12

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: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-101/19	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:
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 yeary updated offer (list of topics). The preparation and presentation of results at Student Scientific Conferences. Preparation of scientific papers.

Recommended literature:
JAVORKA, Kamil, HANÁČEK, J. a kol. Základy vedeckej práce. Skriptá, JLF UK, 2008. KATUŠČÁK, D. 1998. Ako písať vysokoškolské a kvalifikačné práce. 2. doplnené vydanie. Bratislava : Stimul, 1998. 121 s. ISBN 80-85697-69-6. KIMLIČKA, Štefan. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre „klasické“ aj elektronické zdroje. Bratislava : Stimul, 2002. 82 s. ISBN 80-88982-57-X. MEŠKO, D., KATUŠČÁK, D. et al. 2004. Akademická príručka. Martin : Vydavateľstvo Osveta, 2004. 316 s. ISBN 80-8063-150-6. NEMČEKOVÁ, M. 2003. Výskumný proces a jeho fázy. In Ošetrovateľstvo: teória a vedecký výskum. In : Žiaková, K. et al. Martin: Vydavateľstvo Osveta, 2003. 319 s. ISBN 80-8063-131-X.

Languages necessary to complete the course:
Slovak

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. RNDr. Michal Šimera, PhD.

Last change: 29.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-102/19	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:
Práca na pracoviskách pod dohľadom školiteľa. Výber témy individuálne podľa záujmu študenta na základe vypísaných tém. Príprava a prezentácia výsledkov na Študentskej vedeckej konferencii. Možnosť prípravy publikácie.

Recommended literature:
JAVORKA, Kamil, HANÁČEK, J. a kol. Základy vedeckej práce. Skriptá, JLF UK, 2008. KATUŠČÁK, D. 1998. Ako písať vysokoškolské a kvalifikačné práce. 2. doplnené vydanie. Bratislava : Stimul, 1998. 121 s. ISBN 80-85697-69-6. KIMLIČKA, Štefan. Ako citovať a vytvárať zoznamy bibliografických odkazov podľa noriem ISO 690 pre „klasické“ aj elektronické zdroje. Bratislava : Stimul, 2002. 82 s. ISBN 80-88982-57-X. MEŠKO, D., KATUŠČÁK, D. et al. 2004. Akademická príručka. Martin : Vydavateľstvo Osveta, 2004. 316 s. ISBN 80-8063-150-6. NEMČEKOVÁ, M. 2003. Výskumný proces a jeho fázy. In Ošetrovateľstvo: teória a vedecký výskum. In : Žiaková, K. et al. Martin: Vydavateľstvo Osveta, 2003. 319 s. ISBN 80-8063-131-X.

Languages necessary to complete the course:
Slovak

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. RNDr. Michal Šimera, PhD.

Last change: 29.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚO/J-S-VL-020/24	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: 2

Recommended semester: 4.

Educational level: I.II.

Prerequisites: JLF.ÚO/J-S-VL-134/22 - 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 will be able to:
- 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:

Miertová, M., Žiaková, K., Ovšonková, A. a kol. Multimediálna vysokoškolská učebnica techník a zručností. [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, Ústav ošetrovateľstva, 2015. 672 s. Available on: http://eknihy.jfmed.uniba.sk/knihy/ostech/ ISBN 978-80-89544-88-2.

Hlinková, E., Nemcová, J. a kol. Multimediálna e-učebnica ošetrovateľské postupy v špeciálnej chirurgii [online]. Martin: UK v Bratislave, JLF v Martine, Ústav ošetrovateľstva, 2014. ISBN 978-80-89544-72-1. [cit. 2015-01-13] Available on: http://oschir.jfmed.uniba.sk

Krišková, A. a kol. Ošetrovateľské techniky. 2. preprac. a dopl. vyd. Martin: Osveta, 2006. 780 s. ISBN 80-8063-202-2.

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/vtls000257495.pdf

MZ SR. Schválené nové a inovované štandardné klinické postupy v zdravotníctve. [on-line]. Ministerstvo zdravotníctva SR. 2020/21 Available on: https://www.health.gov.sk/?Standardne-Postupy-V-Zdravotnictve

Languages necessary to complete the course:

Slovak language

Notes:	
Past grade distribution Total number of evaluated students: 66	
ABS0	M
100,0	0,0
Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Anna Ovšonková, PhD.	
Last change: 14.05.2024	
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin	

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV6/22	Summer 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: 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:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 3

ABS0	M
100,0	0,0

Lecturers: PaedDr. Jozef Šimeček

Last change: 08.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.GPK/J-S-VL-079/19	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-062/19 - 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.
Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2014, 172 s., ISBN 978-80-223-3566-9
Roztočil A. a kol.: Moderní porodnictví. 2. vyd., Grada, 2017, 656 s., ISBN: 978-80-247-5753-7.
Dubová O., Zikán M.: Praktické repetitorium gynekologie a porodnictví. Maxdorf. 2. vyd., 2022, 866 s., ISBN: 978-80-7345-716-7.
Pilka R.: Gynekologie. Maxdorf, 2017, 332 s., ISBN: 9788073455309.
Kolařik D. a kol.: Repetitorium gynekologie. Maxdorf, 2012, 1070 s., ISBN: 9788073452674.
Biringer K.: Gynekologická endokrinológia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 285-312.
Biringer K.: Gynekologická sonografia v adolescentnom veku. In: Dorastové lekárstvo. Martin: Osveta, 2014. ISBN 978-80-8063-419-3, s. 313-328.

Languages necessary to complete the course:
Slovak language

Notes:	
Past grade distribution Total number of evaluated students: 738	
ABS0	M
99,86	0,14
Lecturers: prof. MUDr. Kamil Biringer, PhD., prof. MUDr. Erik Kúdela, PhD.	
Last change: 07.04.2022	
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin	

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IKG/J-S-VL-054/22	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-039/18 - Internal Medicine (1) and JLF.IKG/J-S-VL-040/18 - Internal Medicine (2)

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 358

ABS0	M
100,0	0,0

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc.

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-080/19	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-071/19 - Pediatrics (1)

Recommended prerequisites:
Pediatrics 2

Course requirements:
Scale of assessment (preliminary/final): activity evaluation, credit

Learning outcomes:
to master basic diagnostic and therapeutic procedures in pediarics, to become familiar with the administrative procedures in pediatric clinic

Class syllabus:
dispenzarization, immunization, rutine preventive physical examinations, therapeutics, medical records

Recommended literature:
Muntau, A. C.:Pediatrie. Praha: Grada, 2009. 581 s. ISBN 978-80-247-2525-3 Lebl., J. a kol. Preklinická pediatrie. Praha: Galén, karolinum, 2007.248 s.ISBN 80-7262-438-6 Jeseňák, M., Bánovči, P. a kol. Imunitný šlabikár- praktický sprievidcs svetom imunológie nielen pre rodičov. Bratislava: SAMEDI,2013.117s ISBN 978-80-970825-5-0 Michálek, J., Dostálová, Kopečná, L. Pediatrická propedeutika. Vzbrané kapitoly.Brno: Masarykova Univerzita.2010. Jakušová, Ľ.Výživa v detskom veku (elektronický dokument). Martin:JLF UK, 2009. 67 s. CD rom. ISBN 978-80-88866-70-1 Jakušová, Ľ.Dostál, A.Výživa dieťaťa v prvom roku života. Martin: Vydavateľstvo Osveta, 2009. 68 s. ISBN 978-80-8063-325-7 Jeseňá, M., Urbančíková,I. a kol. Očkovanie v špeciálnych situáciách. Praha: Mladá fronta.2013239 s. ISBN978-80-204-2805-9 Maťašová,K. Neonatológia1. Bratislava: UK,2012. 155s. ISBN 978-80-223-3172-2 Kovács.L. a kol. Pediatrická propedeutika. Bratislava: Arete.2014.124 s. ISBN 978-80-970624-4-6 Jeseňák. M., Havlíčeková, Z., Bánovčin, P. a kol. Materské mlieko a dojčeni v kontexte modernej medicíny. Bratislava:A- medi management.2015.337 s. ISBN 978-80-89797-05-9

Languages necessary to complete the course:
slovak

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: 738

ABS0	M
99,86	0,14

Lecturers: prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA, prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD.

Last change: 29.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-054/22	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-023/22 - Surgery (1) and JLF.ChKTC/J-S-VL-024/22 - 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:
1. Students are acquainted with the work of secondary doctors in the surgical ward.
2. Practical mastery of washing before surgery, dressing surgeon before surgery.
The preparation of the surgical field, positioning and covering of the patient.
3. Assistance in operations, using of surgical instruments.
4. Mastering wound changing and minor surgery (incision, excision, suturing).
Use of local anesthesia, drainage technique in a small surgery.
5. Practical working knowledge of first-aid equipment (Desault , capistrum spiky , Testudo , etc.).
Casting technique, self- management under the supervision of a plaster cast.
6. Examination of the surgical patient, medical history, pre-operative and preoperative preparation (pharmaceutical, dietary, psychological).
7. The department administering intramuscular injections, venous injections for assistance, Assistance blood
transfers. Mostly surgical wounds.
8. Two night service.

Recommended literature:

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 360

ABS0	M
100,0	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., MUDr. Marek Adámik, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Daniel Bolek, MUDr. Miroslav Pindura, PhD., MUDr. Martin Grajciar, MUDr. Lukáš Spevák, MUDr. Patrik Horan, MUDr. Martin Vojtko, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, MUDr. Tomáš Jesenský, MUDr. Paula Vašinová

Last change: 06.04.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

STATE EXAM DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-SS1/22	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:

Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Haruštiak S. a kol.: Princípy chirurgie II. Slovac academic Press 2010, 923 s.
Pechan J. a kol.: Princípy chirurgie III. PRIMA-PRINT s r.o., 2013, 1098s.
Fischer J. et al.: Fischer´s Mastery of Surgery,seventh edition, 2018, Volume 1,2
Ferko A. a kol. : Chirurgie v kostce. Grada Publishing. spol.s.r.o. 2015, 512s.
Páral J.: Chirurgická propedeutika .Základy chirurgie pro studenty lékařských fakult, Praha, Grada 2020
Laca L.: Chirurgia pečene, Osveta 2009, 208s.
Ihnat P.: Základní chirurgické techniky a dovednosti, Praha, Grada 2017
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Maláska J. a kol.: Intenzivní medicína v praxi: Maxdorf, 2021
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Muller M. a spol. : Chirurgie pro studium a praxi. Praha, Publishing, 1997, 441 s
Marko L. a kol.: Chirurgia pažeráka a žalúdka. Banská Bystrica, Marko BB s.r.o.2007.214 s.
Laca, Ľ.: Ochorenia pečene žlčových ciest a pankreasu. Učebné texty z chirurgie pre št. odbor VL Martin: JLF UK, 2009, 120s, ISBN 978-80-970159-4-7.
Smolár Marek: Ochorenia prsníkov, Turany, Tlačiareň P+M 2021, 216s.
Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Hlinková E. a kol.: Multimediálna e-učebnica Ošetrovateľské postupy v špeciálnej chirurgii [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, 2015.
Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery,ʃ Springer 2015, 274 pages.
Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.

Languages necessary to complete the course:
slovak language

Last change: 15.03.2022

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-023/22	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-022/22 - Surgical Propedeutics (1)

Course requirements:
Continuous assessment of students takes place in the form of 2 tests - minimum passing score: 60%.
Assessment: TEST 1 and 2 A: 100-91% (19-20 points), B 90-81% (17-18 points), C 80-71% (15-16 points), D 70-61% (13-14 points) E 60% (12 points), Fx less than 60%
Attendance at 7 lectures
Final assessment: A 38-40 points B 34-37 points C 30-33 points D 26-29 points E 24-25 points Fx less than 24 points

Learning outcomes:
The graduate knows the issues of sudden abdominal events, the principles of their diagnosis and treatment in adults and children. He knows surgical diseases of the stomach, liver, gallbladder, biliary tract, pancreas, and the indications and principles of their surgical treatment. He knows surgical diseases of the small and large intestine and their surgical treatment. He is familiar with the principles of diagnosing and treating neuroendocrine tumors of the digestive tract and bariatric surgery.

Class syllabus:
Abdominal emergencies - definition of the term. Classification of abdominal emergencies. Main errors in diagnosis, prevention. Principles of examination of patients with abdominal emergencies.
Intestinal obstruction (classification, pathophysiology of disorders, diagnostics, treatment).
Abdominal emergencies in children.
Inflammatory abdominal emergencies - classification, complications, diagnostics, treatment. Intestinal fistulas. Disorders of the internal environment in peritonitis (diagnosis, differential diagnosis, treatment).
Bleeding from the upper and lower digestive tract
Precancerous diseases of the stomach. Malignant tumors of the stomach (diagnosis, surgical treatment). Gastric and duodenal ulcer disease (complications, indications for surgical treatment.)
Post-resection syndromes and their treatment.
Neuroendocrine tumors of the GI tract - surgical treatment.
Metabolic syndrome. Principles of bariatric surgery.
Surgical liver diseases. Liver abscess, liver cysts, benign and malignant liver tumors.

Non-neoplastic diseases of the gallbladder and biliary tract. Cholecystolithiasis and choledocholithiasis, cholecystitis, cholangitis. Benign and malignant tumors of the gallbladder and biliary tract.
Acute and chronic pancreatitis.
Exocrine and endocrine tumors of the pancreas.
Neoplastic diseases of the small intestine, large intestine and rectum.
Non-neoplastic surgical diseases of the small intestine, large intestine and rectum. Inflammatory bowel disease, diverticulosis and diverticulitis of the colon, hemorrhoids, perianal fistulas and abscesses.

Recommended literature:

Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Haruštiak S. a kol.: Princípy chirurgie II. Slovac academic Press 2010, 923 s.
Pechan J. a kol.: Princípy chirurgie III. PRIMA-PRINT s r.o., 2013, 1098s.
Fischer J. et al.: Fischer´s Mastery of Surgery,seventh edition, 2018, Volume 1,2
Ferko A. a kol. : Chirurgie v kostce. Grada Publishing. spol.s.r.o. 2015, 512s.
Páral J.: Chirurgická propedeutika .Základy chirurgie pro studenty lékařských fakult, Praha, Grada 2020
Laca L.: Chirurgia pečene, Osveta 2009, 208s.
Ihnat P.: Základní chirurgické techniky a dovednosti, Praha, Grada 2017
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Maláska J. a kol.: Intenzivní medicína v praxi: Maxdorf, 2021
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Muller M. a spol. : Chirurgie pro studium a praxi. Praha, Publishing, 1997, 441 s
Marko L. a kol.: Chirurgia pažeráka a žalúdka. Banská Bystrica, Marko BB s.r.o.2007.214 s.
Laca, Ľ.: Ochorenia pečene žlčových ciest a pankreasu. Učebné texty z chirurgie pre št. odbor VL Martin: JLF UK, 2009, 120s, ISBN 978-80-970159-4-7.
Smolár Marek: Ochorenia prsníkov, Turany, Tlačiareň P+M 2021, 216s.
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Hlinková E. a kol.: Multimediálna e-učebnica Ošetrovateľské postupy v špeciálnej chirurgii [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, 2015.
Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery, Springer 2015, 274 pages.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 367

A	ABS0	B	C	D	E	FX
10,9	0,0	52,86	29,43	6,27	0,54	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., MUDr. Marek Adámik, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Daniel Bolek, MUDr. Miroslav Pindura, PhD., MUDr. Martin Grajciar, MUDr. Lukáš Spevák, MUDr. Patrik Horan, MUDr. Martin Vojtko, MUDr. Lenka

Juríčková, MUDr. Roman Kyčina, MUDr. Tomáš Jesenský, MUDr. Paula Vašinová, MUDr. Roman Tlacháč
Last change: 18.08.2025
Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-024/22	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-023/22 - Surgery (1) and JLF.KVVTCh/J-S-VL-022a/22 - Surgical Propedeutics (2)

Course requirements:
Continuous assessment of students takes place in the form of 2 tests - minimum passing score: 60%.
Assessment: TEST 1 and 2 A: 100-91% (19-20 points), B 90-81% (17-18 points), C 80-71% (15-16 points), D 70-61% (13-14 points) E 60% (12 points), Fx less than 60%
Attendance at 7 lectures
Final assessment: A 38-40 points B 34-37 points C 30-33 points D 26-29 points E 24-25 points Fx less than 24 points

Learning outcomes:
The graduate of the subject understands diseases of the mammary gland, diseases of the organs of the thoracic cavity, and the mediastinum. Has knowledge of the basics of cardiac surgery and injuries of the heart and blood vessels. Has a good command of the basic issues of vascular diseases and vascular access for 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 classification, diagnosis, and surgical therapy. Has knowledge of the diagnosis and treatment of external and internal hernias.

Class syllabus:
Congenital defects of the digestive system and their surgical treatment.
Congenital defects of the respiratory system and their surgical treatment. Chest wall deformities.
Surgical diseases of the organs of the thoracic cavity.
Surgical diseases of the esophagus and mediastinum.
Fundamentals of cardiac surgery.
Heart and vascular injuries
Hemodialysis and vascular access for HD. Arteriovenous fistulas
Surgical diseases of the branches of the aortic arch. Steal syndrome, thoracic outlet syndrome.
Surgical diseases of the abdominal aorta and its branches.
Visceral ischemic syndrome, AAA.
Malignant melanoma and other skin malignancies.

Contents of plastic surgery. Skin flaps, transplants. External hernias - inguinal hernia, femoral hernia, umbilical hernia. Internal hernias - diaphragmatic and hiatal.

Recommended literature:

Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Haruštiak S. a kol.: Princípy chirurgie II. Slovac academic Press 2010, 923 s.
Pechan J. a kol.: Princípy chirurgie III. PRIMA-PRINT s r.o., 2013, 1098s.
Fischer J. et al.: Fischer´s Mastery of Surgery,seventh edition, 2018, Volume 1,2
Ferko A. a kol. : Chirurgie v kostce. Grada Publishing. spol.s.r.o. 2015, 512s.
Páral J.: Chirurgická propedeutika .Základy chirurgie pro studenty lékařských fakult, Praha, Grada 2020
Ihnat P.: Základní chirurgické techniky a dovednosti, Praha, Grada 2017
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Maláska J. a kol.: Intenzivní medicína v praxi: Maxdorf, 2021
Muller M. a spol. : Chirurgie pro studium a praxi. Praha, Publishing, 1997, 441 s
Marko L. a kol.: Chirurgia pažeráka a žalúdka. Banská Bystrica, Marko BB s.r.o.2007.214 s.
Laca, Ľ.: Ochorenia pečene žlčových ciest a pankreasu. Učebné texty z chirurgie pre št. odbor VL Martin: JLF UK, 2009, 120s, ISBN 978-80-970159-4-7.
Smolár Marek: Ochorenia prsníkov, Turany, Tlačiareň P+M 2021, 216s.
Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Hlinková E. a kol.: Multimediálna e-učebnica Ošetrovateľské postupy v špeciálnej chirurgii [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, 2015.
Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery,ʼSpringer 2015, 274 pages.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 359

A	ABS0	B	C	D	E	FX
5,57	0,0	46,52	38,72	8,64	0,56	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Vladimír Svitek, PhD., MUDr. Marek Malík, PhD., MUDr. Tomáš Jesenský, MUDr. Igor Homola, PhD., MUDr. Marek Adámik, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Daniel Bolek, MUDr. Miroslav Pindura, PhD., MUDr. Martin Grajciar, MUDr. Lukáš Spevák, MUDr. Patrik Horan, MUDr. Martin Vojtko, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, MUDr. Paula Vašinová, MUDr. Roman Tlacháč

Last change: 18.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-028/22	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-024/22 - Surgery (2) and JLF.ChKTC/J-S-VL-054/22 - Summer Practice-Surgery and JLF.NchK/J-S-VL-119/22 - Neurosurgery and JLF.OTK/J-S-VL-070/22 - Ortopedics and JLF.UK/J-S-VL-078/22 - Urology

Course requirements:
Completition of practice before state board 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 /.

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:
Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Haruštiak S. a kol.: Princípy chirurgie II. Slovac academic Press 2010, 923 s.
Pechan J. a kol.: Princípy chirurgie III. PRIMA-PRINT s r.o., 2013, 1098s.
Fischer J. et al.: Fischer´s Mastery of Surgery,seventh edition, 2018, Volume 1,2
Ferko A. a kol. : Chirurgie v kostce. Grada Publishing. spol.s.r.o. 2015, 512s.
Páral J.: Chirurgická propedeutika .Základy chirurgie pro studenty lékařských fakult, Praha, Grada 2020
Laca L.: Chirurgia pečene, Osveta 2009, 208s.
Ihnat P.: Základní chirurgické techniky a dovednosti, Praha, Grada 2017
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Maláska J. a kol.: Intenzivní medicína v praxi: Maxdorf, 2021
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Muller M. a spol. : Chirurgie pro studium a praxi. Praha, Publishing, 1997, 441 s
Marko L. a kol.: Chirurgia pažeráka a žalúdka. Banská Bystrica, Marko BB s.r.o.2007.214 s.

Laca, Ľ.: Ochorenia pečene žlčových ciest a pankreasu. Učebné texty z chirurgie pre št. odbor VL Martin: JLF UK, 2009, 120s, ISBN 978-80-970159-4-7.
Smolár Marek: Ochorenia prsníkov, Turany, Tlačiareň P+M 2021, 216s.
Chung CK: Grabb and Smith Plastic Surgery, 8th Edition, 2019. 1108s.
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Hlinková E. a kol.: Multimediálna e-učebnica Ošetrovateľské postupy v špeciálnej chirurgii [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, 2015.
Madani A., Ferri L., Seely A.: Pocket Manual of General Thoracic Surgery,ʹSpringer 2015, 274 pages.
Danovitch G.: Handbook of kidney transplantation, 6th edition 2017, 606pp.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 485

A	ABS0	B	C	D	E	FX
95,05	0,0	3,71	1,24	0,0	0,0	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., MUDr. Marek Adámik, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Ivana Daňová, PhD., MUDr. Michal Hošala, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Daniel Bolek, MUDr. Martin Grajciar, MUDr. Patrik Horan, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, MUDr. Miroslav Pindura, PhD., MUDr. Lukáš Spevák, MUDr. Martin Vojtko, MUDr. Tomáš Jesenský, MUDr. Ján Janík, PhD., MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., MUDr. Igor Homola, PhD., MUDr. Igor Šinák, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Marek Malík, PhD., MUDr. Paula Vašinová, MUDr. Roman Tlacháč

Last change: 24.05.2024

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-022/22	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-001/17 - Anatomy (1) and JLF.ÚA/J-S-VL-002/15 - Anatomy (2)

Course requirements:
Continuous assessment of students takes place in the form of 2 tests - minimum passing score: 60%. Assessment: TEST 1 and 2: A: 100-91% (19-20 points), B 90-81% (17-18 points), C 80-71% (15-16 points), D 70-61% (13-14 points) E 60% (12 points), Fx less than 60%
Attendance at 7 lectures
Final assessment: A 38-40 points B 34-37 points C 30-33 points D 26-29 points E 24-25 points Fx less than 24 points

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 antiseptis. He knows the indications for surgical treatment, can determine the operational risk and specify the principles of preoperative, perioperative and postoperative care. He has imoprtant 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:
Anamnesis and physical examination of a surgical patient, Invasive and non-invasive diagnostic methods in the examination of a surgical patient, Operative risk, Principles of preoperative preparation.
Principles of surgical treatment, indications for surgical treatment. Basic surgical procedures (resection, non-resection, ablation, shunting operations, stomas). Types of surgical procedures (urgent, acute, elective).
Asepsis, antisepsis, sterilization, disinfection. Nosocomial infections.
Enteral and parenteral nutrition. Nutritional disorders in surgical patients. Diagnosis of nutritional disorders - clinical, laboratory. Infusion therapy.
Peculiarities of physical examination in pediatric patients. Invasive and non-invasive diagnostic methods in the examination of a pediatric surgical patient.

Changes in the homeostasis of the organism after injury and surgery. Perioperative and postoperative care of the surgical patient. The most common postoperative complications (cardiovascular system, respiratory system, renal system, digestive system, bleeding, dehiscence of the surgical wound).
Shock - definition, classification and pathophysiology of shock. Monitoring. Prevention and treatment of shock. Water and electrolyte balance. Acid-base balance disorders in the surgical patient.
Soft tissue injuries - mechanisms of injury, wound distribution, wound healing, healing of individual tissue structures. Principles of wound care. Factors affecting wound healing. Suture material, sutures. Pressure ulcers (causes of occurrence, prevention, treatment)
Blood transfusion, blood derivatives, replacement solutions. Indications, risks and complications of transfusion and blood derivatives.
Hemostasis disorders in the surgical patient (congenital, acquired). Preoperative preparation. Antiplatelet, anticoagulant and fibrinolytic therapy.
Infections in surgery. Bacteremia, SIRS, sepsis. SOFA score, qSOFA score. Factors influencing the onset and course of infection. Prevention, diagnosis and treatment of surgical infection. Bacteriological monitoring.
Inflammatory diseases of the fingers and hand. Pyogenic wound infections, lymphangitis, lymphadenitis, hidradenitis, phlegmon, abscess, osteomyelitis, folliculitis, furuncle, carbuncle, cheilitis. Anaerobic infections, tetanus.
Basics of oncological surgery. Benign and malignant tumors, precancerous lesions. Diagnosis and treatment of malignant tumors, TNM classification of malignant tumors, grading, staging. Primary and secondary prevention of tumors.
Life-threatening conditions in surgery. Basics of CPR. Principles of diagnostic and treatment procedures.
Airway management (intubation, coniotomy, tracheostomy)

Recommended literature:

Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Haruštiak S. a kol.: Princípy chirurgie II. Slovac academic Press 2010, 923 s.
Pechan J. a kol.: Princípy chirurgie III. PRIMA-PRINT s r.o., 2013, 1098s.
Ferko A. a kol. : Chirurgie v kostce. Grada Publishing. spol.s.r.o. 2015, 512s.
Páral J.: Chirurgická propedeutika. Základy chirurgie pro studenty lékařských fakult, Praha, Grada 2020
Ihnat P.: Základní chirurgické techniky a dovednosti, Praha, Grada 2017
Krška Z a kol.: Techniky a technologie v chirurgických oborech: Grada 2011
Heitz JW.: Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Maláska J. a kol.: Intenzivní medicína v praxi: Maxdorf, 2021
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Štvrtinová V. a kol.: Choroby ciev. Bratislava, SAP 2008, 896 s.
Muller M. a spol. : Chirurgie pro studium a praxi. Praha, Publishing, 1997, 441 s.
Hlinková E. a kol.: Multimediálna e-učebnica Ošetrovateľské postupy v špeciálnej chirurgii [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, 2015.
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Monaghan T.: Klinické vyšetření moderní propedeutika (rady-tipy-návody pro praxi): Grada, 2018, 768s.

Languages necessary to complete the course:

slovak language

Notes:

Past grade distribution
Total number of evaluated students: 496

A	ABS0	B	C	D	E	FX
17,74	0,0	49,4	27,82	4,64	0,4	0,0

Lecturers: doc. MUDr. Juraj Miklušica, PhD., MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., MUDr. Marek Adámik, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Daniel Bolek, MUDr. Miroslav Pindura, PhD., MUDr. Martin Grajciar, MUDr. Lukáš Spevák, MUDr. Patrik Horan, MUDr. Martin Vojtko, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, MUDr. Tomáš Jesenský, MUDr. Paula Vašinová, MUDr. Roman Tlacháč

Last change: 18.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KVVTCh/J-S-VL-022a/22	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-002/15 - Anatomy (2) and JLF.ÚA/J-S-VL-003/17 - Anatomy (3) and JLF.ChKTC/J-S-VL-022/22 - Surgical Propedeutics (1)

Course requirements:
Continuous assessment of students takes place in the form of 2 tests - minimum passing score: 60%.
Assessment: TEST 1 and 2 A: 100-91% (19-20 points), B 90-81% (17-18 points), C 80-71% (15-16 points), D 70-61% (13-14 points) E 60% (12 points), Fx less than 60%
Participation in 7 lectures, successful completion of practical and theoretical exams - theoretical exam consists of 2 questions
Final assessment: A, B, C, D, Fx

Learning outcomes:
The graduate of the course knows the basic algorithm of diagnostic and treatment procedures in patients with chest and abdominal injuries with polytrauma and burns. He knows the specifics of pediatric traumatology. He has good knowledge of minimally invasive surgery. He is familiar with the diagnosis and treatment of acute limb ischemia, diabetic foot and the issues of chronic wound care, as well as the basics of palliative medicine and surgery in the elderly.

Class syllabus:
Polytrauma, diagnostic and therapeutic procedures.
Injuries of intra-abdominal organs and retroperitoneum.
Injuries of the chest and intrathoracic organs.
Hypothermia and frostbite. Electric and lightning injuries. Crush and blast syndrome.
Peculiarities of pediatric traumatology.
Local anesthesia (types, indications, complications). Pain management in a surgical patient.
New technologies in surgery. Minimally invasive and robotic surgery.
Criteria for clinical, biological and brain death. Organ and tissue transplantation. Donor program.
Acute and chronic ischemic limb syndrome. Peripheral vascular injuries.
Surgical aspects of diabetes mellitus. Diabetic foot (Wagner classification). Amputations (indications, types)
Surgical diseases of the venous and lymphatic system. Thromboembolic disease. Air and fat embolism. Anticoagulation and thrombolytic therapy.
Management of chronic wounds.

Polymorbidity. Surgical problems of old age. Palliative medicine.
Burns, burn shock.

Recommended literature:

Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Haruštiak S. a kol.: Princípy chirurgie II. Slovac academic Press 2010, 923 s.
Pechan J. a kol.: Princípy chirurgie III. PRIMA-PRINT s r.o., 2013, 1098s.
Ferko A. a kol. : Chirurgie v kostce. Grada Publishing. spol.s.r.o. 2015, 512s.
Páral J.: Chirurgická propedeutika. Základy chirurgie pro studenty lékařských fakult, Praha, Grada 2020
Ihnat P.: Základní chirurgické techniky a dovednosti, Praha, Grada 2017
Krška Z a kol.: Techniky a technologie v chirurgických oborech: Grada 2011
Heitz JW.: Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Maláska J. a kol.: Intenzivní medicína v praxi: Maxdorf, 2021
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Štvrtinová V. a kol.: Choroby ciev. Bratislava, SAP 2008, 896 s.
Muller M. a spol. : Chirurgie pro studium a praxi. Praha, Publishing, 1997, 441 s.
Hlinková E. a kol.: Multimediálna e-učebnica Ošetrovateľské postupy v špeciálnej chirurgii [online]. Univerzita Komenského Bratislava, Jesseniova lekárska fakulta v Martine, 2015.
Heitz JW.:Pooperační stavy (příznaky, diagnostika, postupy): Grada, 2019
Monaghan T.: Klinické vyšetření moderní propedeutika (rady-tipy-návody pro praxi): Grada, 2018, 768s.
Dedinská I, Miklušica J.: Základy pre odber orgánov a transplantáciu obličky: P+M Turany, 2015, 136s.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 370

A	ABS0	B	C	D	E	FX
53,24	0,0	24,05	15,95	3,78	2,16	0,81

Lecturers: doc. MUDr. Juraj Miklušica, PhD., prof. MUDr. Anton Dzian, PhD., MUDr. Vladimír Svitek, PhD., MUDr. Marek Malík, PhD., MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD., MUDr. Marek Adámik, PhD., MUDr. Blažej Palkoci, PhD., MUDr. Miroslav Slezák, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Marek Smolár, PhD., MPH, MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Peter Mikolajčík, PhD., MUDr. Daniel Bolek, MUDr. Miroslav Pindura, PhD., MUDr. Martin Grajciar, MUDr. Lukáš Spevák, MUDr. Patrik Horan, MUDr. Martin Vojtko, MUDr. Lenka Juríčková, MUDr. Roman Kyčina, MUDr. Tomáš Jesenský, MUDr. Paula Vašinová, MUDr. Roman Tlacháč

Last change: 18.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-143/24	Transplant 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: 9.

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: 6

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

Lecturers: prof. Mgr. MUDr. Miloš Jeseňák, PhD., MBA

Last change:

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-089/19	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-117/19 - Public Health (1) and JLF.KICM/J-S-VL-067/19 - Infectology

Recommended prerequisites:
Public Health 1, Infectology

Course requirements:
Evaluation of the course • 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: 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 • 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). Development aid to alleviate extreme poverty in low-income countries.

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-diseases#tab=tab_1

Languages necessary to complete the course:
slovak, 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. Tibor Baška, PhD.

Last change: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.UK/J-S-VL-078/22	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: 10.

Educational level: I.II.

Prerequisites: JLF.ChKTC/J-S-VL-024/22 - Surgery (2)

Course requirements:
test

Learning outcomes:
Basic knowledge of urology: embryology, anatomy, physiology, pathology, pathophysiology, etiology, pathogenesis, diagnosis and treatment of urogenital diseases

Class syllabus:
Primary anatomy of the urogenital system; symptoms of urological diseases; urological screening of the patient; screening of urine; endoscopic diagnosis, imaging, screening methods (rtg, ultrasonography, radionuclide); basic andrology. Biopsy; basic urological operations; emergency in Urology; congenital malformations of the urogenital tract; scrotal diseases; patient screening and analysis of the case – participation on diagnostic and therapeutical procedures. Urolithiasis; inflammantory diseases; obstructive uropaties; injuries of the urogenital system;acute and chronic renal failture; patient screening and analysis of the case – participation on diagnostic and therapeutical procedures, benign diseases of the prostate, prostate cancer; patient screening and analysis of the case – participation on diagnostic and therapeutical procedures. Urodynamics (screening); neurogenic voiding dysfunction; urinary incontinence; patient screening and analysis of the case – participation on diagnostic and therapeutical procedures. Renal cancer, adrenal tumors; penis cancer; patient screening and analysis of the case – participation on diagnostic and therapeutical procedures. Urothelial tumors; testicular cancers; patient screening and analysis of the case – participation on diagnostic and therapeutical procedures.

Recommended literature:
1. Breza, J. a kol.: Všeobecná a špeciálna urológia pre poslucháčov lekárskych fakúlt. Bratislava: UK, 2004. 259 s. ISBN 80-223-1907-4 2. Tanagho, E.A., McAninch, J.W.: Smithova všeobecná urológia. Martin: Osveta, 2006. 773 s. ISBN 80-8063-206-5 3. Zvara, V. a kol.: Špeciálna urológia. Bratislava: UK, l992. l04 s. Skriptá. ISBN 80-2230-441-1 4. Horňák, M. a kol.: Všeobecná urológia. Bratislava: UK, l990. 78 s. Skriptá. ISBN 80-2230-271-6 5. Zvara, V. a kol. Klinická urológia. Martin: Osveta, l990. 640 s. 6. Kliment, J., Horňák, M.: Benígna hyperplázia prostaty. Martin: Osveta, 1996. 250 s. ISBN 80-217-0343-1 7. Kliment, J., Horňák,

M. a kol.: Karcinóm prostaty. Martin: Osveta, 1999. 296 s. ISBN 80-88824-03-6 8. Ľupták, Ján: Urolitiáza: etiopatogenéza, diagnostika a liečba: vysokoškolská učebnica. Martin, Osveta 2012. ISBN 978-80-8063-376-9 9. Švihra, Ján: Urodynamické vyšetrenia: vysokoškolská učebnica. Martin, Osveta 2011. ISBN 978-80-8063-366-0 10. Švihra, Ján: Vybrané kapitoly zo všeobecnej urológie: vysokoškolské učebné texty pre študentov všeobecného lekárstva. Martin, 2011. 978-80-89544-05-9 11.Campbell ´s urology – online, 11. Kliment J., Mego M., Dubinský P.: Karcinóm prostaty. Pokroky v diagnostike a liečbe. Martin: P + M Turany 2021, s. 307; ISBN 978-80-89694-95-2. 12. Breza, J a kol.: Princípy chirurgie 4, Dětská urologie - Marcel Drlík, Radim Kočvara a kol., Maxdorf 2023, ISBN 978-80-7345-740-2

Languages necessary to complete the course:
Slovak Language

Notes:

Past grade distribution
Total number of evaluated students: 414

A	ABS0	B	C	D	E	FX
83,09	0,0	13,04	3,62	0,24	0,0	0,0

Lecturers: doc. MUDr. Ján Ľupták, PhD., prof. MUDr. Ján Švihra, PhD., MUDr. Róbert Dušenka, PhD., MBA, MUDr. Kamil Javorka, PhD., MUDr. Ján Švihra, PhD., MUDr. Ján Kliment, PhD.

Last change: 20.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-110/19	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-117/19 - Public Health (1) and JLF.KICM/J-S-VL-067/19 - Infectology

Recommended prerequisites:
Public Health 1, Infectology

Course requirements:
EVALUATION OF THE COURSE
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. ppt presentation (max. 36 points)
3. 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 supervision of vaccination.

Recommended literature:
OBLIGATORY LITERATURE

HUDEČKOVÁ, H., ŠVIHROVÁ, V.: Očkovanie. Martin, Osveta, 2013, 221 s. ISBN 978-80-80633-96-7
http://www.ecdc.europa.eu
CDC. Traveller's health. https://wwwnc.cdc.gov/travel/

Languages necessary to complete the course:
slovak, 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: 22.08.2025

Approved by: prof. MUDr. Andrea Čalkovská, DrSc., prof. MUDr. Anton Dzian, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin

COURSE DESCRIPTION

Academic year: 2025/2026

University: Comenius University Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV5/22	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: 22

ABS0	M
100,0	0,0

Lecturers: PaedDr. Jozef Šimeček

Last change: 08.03.2022

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