Course descriptions

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COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
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: 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. Ľubica Jakušová, PhD.
Last change: 16.10.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KAIM/J-S-VL-085/19	**Course title:** Algesiology and Paliative Medicine
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** ,5 **per level/semester:** 7,5 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: internal medicine, emergency medicine	
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: 5

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

Lecturers: doc. MUDr. Milan Minarik, PhD., prof. MUDr. Beata Drobná Sániová, PhD.

Last change: 19.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚA/J-S-VL-001/17	Anatomy (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 2 **per level/semester:** 45 / 30
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation in practicals, at least 60% success rate on written tests
Scale of assessment (preliminary/final): 10/90

Learning outcomes:
Graduate acquires detailed knowledge of the systematic anatomy of the locomotor system - general and special osteology, arthrology and myology and some organ systems. Knowledge will be the basis for the study of topographical anatomy and also for the subsequent study of physiology, pathological anatomy and clinical disciplines.

Class syllabus:
Contents of lectures is systematic anatomy: Locomotor apparatus - general bone structure, bone joints and skeletal muscles; Cardiovascular system; Digestive system.
In the practicals students study special osteology, arthrology and myology - the bones and joints of the head, neck and trunk and bones, joints and muscles of the limbs.

Recommended literature:
Povinná literatúra: Čihák,R. Anatomie I. Praha: Grada, 2011. 534 s. ISBN 978-80-247-3817-8
Čihák,R. Anatomie II.Praha: Avicenum, 2013. 497 s. ISBN 978-80-247-4788-0
978-80-247-4788-0
Čihák,R. Anatomie III. Praha: Grada, 2016. 722s. ISBN 978-80-247-5636-3
Mráz,P. a kol. Anatómia ľudského tela 1. Bratislava: SAP, 2004. 526 s.ISBN 80-89104-57-6
Mráz,P. a kol. Anatómia ľudského tela 2. Bratislava: SAP, 2006. 495 s. ISBN 80-89104-96-7
Mráz,P. a kol. Pitevné cvičenia. Martin: Osveta, 1995. 199 s. ISBN 80-217-0550-7

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 593

A	ABS0	B	C	D	E	FX
16,19	1,69	30,35	31,2	14,33	5,9	0,34

Lecturers: doc. MUDr. Yvetta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MUDr. Lenka Kunertová, RNDr. Magdaléna Marčeková, PhD., doc. MUDr. Desanka Výbohová, PhD., MVDr. Dagmar Kalenská, PhD.

Last change: 26.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚA/J-S-VL-002/15	Anatomy (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 5 / 4 **per level/semester:** 75 / 60
Form of the course: on-site learning

Number of credits: 10

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation in practicals, 100% participation in dissection, at least 60% success rate on written tests
A:95 % - 100 %, B:88 % - 94 %, C: 77 % - 87 %, D: 66 % - 76 %, E: 60 % - 65 %
Scale of assessment (preliminary/final): 10/90

Learning outcomes:
The graduate of anatomy acquires detailed knowledge of systematic anatomy of selected organ systems, including peripheral vessels and peripheral nerves. Knowledge will be the basis for the study of topographical anatomy and also for the subsequent study of physiology, pathological anatomy and clinical disciplines.

Class syllabus:
The content of the lectures is systemic anatomy - blood supply, lymph drainage and nerve supply of limbs; , rspiratory system, urinary system, male and female reproductive systems.
The content of the practical is topographical anatomy of limbs - topographic-anatomical dissection of upper and lower limbs; practical study of organ systems - cardiovascular, digestive, respiratory and urogenital systems.

Recommended literature:
Povinná literatúra: Čihák,R. Anatomie I. Praha: Grada, 2011. 534 s. ISBN 978-80-247-3817-8
Čihák,R. Anatomie II.Praha: Avicenum, 2013. 497 s. ISBN 978-80-247-4788-0
978-80-247-4788-0
Čihák,R. Anatomie III. Praha: Grada, 2016. 722s. ISBN 978-80-247-5636-3
Mráz,P. a kol. Anatómia ľudského tela 1. Bratislava: SAP, 2004. 526 s.ISBN 80-89104-57-6
Mráz,P. a kol. Anatómia ľudského tela 2. Bratislava: SAP, 2006. 495 s. ISBN 80-89104-96-7
Mráz,P. a kol. Pitevné cvičenia. Martin: Osveta, 1995. 199 s. ISBN 80-217-0550-7

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 783

A	ABS0	B	C	D	E	FX
11,75	1,79	36,27	37,8	9,45	2,17	0,77

Lecturers: doc. MUDr. Yvetta Mellová, CSc., MUDr. Gabriela Hešková, PhD., MUDr. Lenka Kunertová, RNDr. Magdaléna Marčeková, PhD., doc. MUDr. Desanka Výbohová, PhD., MVDr. Dagmar Kalenská, PhD.

Last change: 01.03.2021

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 60 / 30
Form of the course: on-site learning

Number of credits: 9

Recommended semester: 3.

Educational level: I.II.

Prerequisites:

Course requirements:
100% participation in practicals, 100% participation in dissection, at least 60% success rate on written tests Final Exam: • the written part: at least 65% success rate for the written exam • practical examination • oral examination
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:
Contents of lectures is systematic anatomy of the central nervous system, autonomic nervous system, organ of vision and organ of hearing. The content of the practical is topographical anatomy of head, neck and trunk - topographic-anatomical dissection of head, neck and trunk; practical study of the central nervous system and practical study of organ of vision and organ of hearing.

Recommended literature:
Povinná literatúra: Čihák,R. Anatomie I. Praha: Grada, 2011. 534 s. ISBN 978-80-247-3817-8
Čihák,R. Anatomie II.Praha: Avicenum, 2013. 497 s. ISBN 978-80-247-4788-0
978-80-247-4788-0
Čihák,R. Anatomie III. Praha: Grada, 2016. 722s. ISBN 978-80-247-5636-3
Mráz,P. a kol. Anatómia ľudského tela 1. Bratislava: SAP, 2004. 526 s.ISBN 80-89104-57-6
Mráz,P. a kol. Anatómia ľudského tela 2. Bratislava: SAP, 2006. 495 s. ISBN 80-89104-96-7
Mráz,P. a kol. Pitevné cvičenia. Martin: Osveta, 1995. 199 s. ISBN 80-217-0550-7

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 561

A	ABS0	B	C	D	E	FX
16,22	0,0	21,93	24,6	17,65	13,73	5,88

Lecturers: doc. MUDr. Yvetta Mellová, CSc., MUDr. Gabriela Hešková, PhD., doc. MUDr. Desanka Výbohová, PhD.

Last change: 26.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KAIM/J-S-VL-058/19	Anesthesiology and Intensive Medicine

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
internal medicine 3, emergency medicine

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: 83

A	ABS0	B	C	D	E	FX
31,33	0,0	44,58	16,87	3,61	3,61	0,0

Lecturers: doc. MUDr. Milan Minarik, PhD., prof. MUDr. Beata Drobná Sániová, PhD., MUDr. Denisa Osinová, PhD., MUDr. Silvia Učňová

Last change: 15.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30
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 is 60% Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60%

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
2. 1st Latin and Greek declension
3. 2nd Latin and Greek declension
4. 3rd Latin consonant declension
5. 3rd Latin consonant declension
6. 3rd Latin vowel declension
7. TEST I
8. 4th Latin declension
9. 5th Latin declension
10. Adjectives of the 3rd declension
11. Adjectives of the 3rd declension
12. Comparison of adjectives
13. Comparison of adjectives
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

Bujalková, M.: Lekárska terminológia v súčasnom a historickom kontexte. Bratislava: Univerzita Komenského 2009 (1.vyd.) a 2011 (2.vyd.). 96 s.

Kábrt, J., Kábrt, J., jr.: Lexicon medicum. 3. doplněné a přepracované vydání. Praha: Galén 2015. 917 s.

Languages necessary to complete the course:

Slovak and Latin language

Notes:

Past grade distribution

Total number of evaluated students: 272

A	ABS0	B	C	D	E	FX
43,01	5,15	28,68	15,81	5,88	1,47	0,0

Lecturers: PhDr. Mária Bujalková, CSc., Mgr. Miroslav Čovan, PhD., Mgr. Samuel Javornický, PhD., Mgr. Nora Malinovská, PhD.

Last change: 23.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Basic of Medical Terminology 1

Course requirements:
2 written tests and final written 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%

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
2. 3rd Greek declension
3. Numerals
4. Latin medical prescription
5. Prefixes
6. Prefixes
7. TEST III
8. Suffixes
9. Suffixes. Adverbs
10. Compounds
11. Compounds
12. Revision

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
Bujalková, M.: Lekárska terminológia v súčasnom a historickom kontexte. Bratislava: Univerzita Komenského 2009 (1.vyd.) a 2011 (2.vyd.). 96 s.
Kábrt, J., Kábrt, J., jr.: Lexicon medicum. 3. doplněné a přepracované vydání. Praha: Galén 2015. 917 s.

Languages necessary to complete the course:
Slovak and Latin language

Notes:

Past grade distribution
Total number of evaluated students: 237

A	ABS0	B	C	D	E	FX
46,41	0,0	38,4	11,81	2,53	0,42	0,42

Lecturers: PhDr. Mária Bujalková, CSc., Mgr. Miroslav Čovan, PhD., Mgr. Samuel Javornický, PhD., Mgr. Nora Malinovská, PhD.

Last change: 23.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-133/19	**Course title:** Basics in Medical Education
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** ,5 / 1 **per level/semester:** 7,5 / 15 **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: 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. 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: 25.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPF/J-S-VL-130/19	Basics of First Aid

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / ,5 **per level/semester:** 15 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
not applicable

Course requirements:
Assessment of students takes the form of a practical CPR exam using a high-fidelity simulator and computer software, which evaluates its percentage success and a short oral examination of the theory.
Rating: A: 100-91%, B: 90-82%, C: 81-73%, D: 73-68%, E: 67-60%, FX 59% and less
Scale of assessment (preliminary/final): final evaluation

Learning outcomes:
The student will understand the basic principles of first aid in traumatic and non-traumatic conditions. He/she can evaluate vital signs of a patient, controls ABCDE access to the first aid. The graduate is able to provide the patient with immediate CPR if the affected person is not breathing and is unconscious according to the latest recommendations of professional organizations.

Class syllabus:
Guiding principles for first aid. Chain of life.
Unconsciousness. Basic life-saving procedures (head tilting, first aid when choking on a foreign body, stabilized position).
Systematic approach to acute-ill patient ABCDE principle.
Stopping breathing and blood circulation.
BLS - Basic Life Support - resuscitation I., Use of AED (Automatic External Defibrillator)
First aid for traumatic life-threatening conditions (bleeding, fractures, amputations, burns, bites, bites, melting)
First aid for non-traumatic life-threatening conditions (cardiac, pulmonary, intoxication, anaphylaxis, seizures). Sudden childbirth
Examination with CPR evaluation.

Recommended literature:

Languages necessary to complete the course:
English

Notes:

Past grade distribution
Total number of evaluated students: 92

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: 25.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚO/J-S-VL-134/19	Basics of Nursing Techniques

Educational activities:
Type of activities: practicals
Number of hours:
per week: 1,5 **per level/semester:** 22,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Course requirements:
Subject evaluation is based on the written test and the practical exam; student must achieve at least 60 %. Evaluation: A: 91-100 %, B: 81-90 %, C: 73-80 %, D: 66-72 %, E: 60-65 %, Fx: less than 60 %

Learning outcomes:
By completion of the subject student gains reliable evidence-based information for safe healthcare practice. Student understands fundamental principles of nursing care provision and standard procedures of selected nursing techniques and interventions. While using the methods of simulation, demonstration, case study method and learning by doing method the student will gain theoretical knowledge and practical skills in performance of basic nursing procedures within nursing care provision.
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 (risk factors, factors affecting its performance, patient's readiness for the procedure (if long-term preparation required)
- provide instructions and support the patient prior to the procedure,
- prepare the patient for the procedure from the physical perspective,
- carry out the procedure independently while following clinical standards and guidelines, respecting the ethical principles and principles of asepsis including hand hygiene,
- communicate with the patient during the procedure, provide patient education / instruction after the procedure,
- record and document the procedure and values assessed,
- process all the equipment and items used (decontamination).
Acquired 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.

Class syllabus:
Infection precautions in health care setting – hand hygiene practices, personal protective equipment (PPE), safe managing and disposing used equipment and materials (sharps).

Procedures trained:
hand wash
hand rub
surgical hand rub
donning and removing gloves (non-sterile / sterile)
Vital signs - measuring and assessing vital signs: arterial blood pressure; radial and apical pulse; respiration; body temperature; oxygen saturation – pulse oximetry.
Bandages and binders - materials used for bandages and binders, general principles and rules of bandaging, types of bandages.
Procedures trained:
bandaging body parts using different techniques
applying a gauze bandage to secure the dressing – bandaging of hand, lower arm, elbow, foot
applying an elastic thigh-length compression bandage
Specimen collection – blood specimens - general principles of obtaining a specimen, obtaining blood specimens – blood tests.
Procedures trained:
collecting blood specimens by venipuncture (syringe and vacutainer method)
obtaining capillary blood specimens for blood glucose analysis and blood gas analysis (CBG – capillary blood gas) by skin puncture / capillary puncture
blood glucose monitoring by blood glucose meter
Parenteral application of medications I. – prevention of needlestick injuries; general principles and rules of preparing injections and administering intradermal (ID), subcutaneous (SC), intramuscular (IM) injections, special considerations for administration of insulin, heparin and LMWHs.
Procedures trained:
preparing injections – ampoules and vials
administering ID, SC (insulin, heparin, LMWH) and IM injections
Parenteral application of medications II. – routes of IV application of medications, types of venous access, general principles and rules of IV injections and IV infusions, application
IV infusion solutions, prevention of intravascular infection.
Blood therapy – preparation and assistance, pre-transfusion tests, adverse reactions to transfusion.
Procedures trained:
preparing an injection for IV application
peripheral IV line insertion
administering medication by IV bolus
preparing IV infusion
initiating and administering IV infusion via peripheral IV line
Gastric intubation and enteral nutrition (tube feeding) - general principles and rules of gastric tube insertion, maintenance and removal, administering medications via gastric tube and tube feeding, care measures of working with patients having a gastric tube.
Procedures trained:
gastric tube insertion (nasogastric / orogastric)
tube feeding
administering medications via gastric tube
gastric tube removal
Administering an enema - types of enemas / enema solutions, general principles and rules of administering different types of enemas.
Procedures trained:
preparing and administering cleansing enema

Urinary catheterization – straight / indwelling retention urinary catheters, special considerations for urinary catheterization in female / male patients, general principles and rules of urinary catheter insertion, maintenance and removal, collecting urine specimen, assessing and examination of urine , prevention of catheter-associated urinary tract infections (CAUTI), care measures of working with patients having indwelling retention urinary catheter.
Procedures trained:
obtaining urine specimen by straight catheter in female patient
insertion of indwelling retention catheter in female patient
removal of indwelling catheter
Nursing care in surgery - principles and practices of surgical asepsis, establishing and maintaining a sterile field, wound care – wound healing and assessment, wound dressing materials (traditional / modern), general principles and rules of cleaning a wound and applying sterile dressing in different types of wounds,
Procedures trained:
manipulation with sterile items and equipment, sterile packages – dressing trolley
cleaning and changing the dressing of aseptic surgical wound
cleaning and changing the dressing of septic (chronic) wound
cleaning and changing the dressing of a drain site

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. Dostupné na: http://e-knihy.jfmed.uniba.sk/knihy/ostech/ ISBN 978-80-89544-88-2.
Kozierová, B., Erbová, G., Olivierová, R.: Ošetrovateľstvo 1.,2. 1. vyd. Martin : Osveta, 1995. 1474 s. ISBN 80-217-0528-0.
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 at:http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtls000257495.pdf.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 307

A	ABS0	B	C	D	E	FX
37,13	0,98	48,86	10,42	2,28	0,33	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Anna Ovšonková, PhD.

Last change: 18.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚPF/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:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:
Basic information regarding pathomechanisms of the origin of the most frequent sleep disorders related to breathing dysregulation. Prevalence of sleep-related breathing disorders is relatively very high in population, symptomatology is very poor and complications shortening the life expectancy are very frequent. There are new diagnostic and therapeutic procedures that can significantly increase the quality of life from clinical view and from mental and social points, as well.

Class syllabus:
Lectures and seminars: epidemiology of sleep-related breathing disorders, categories of sleep-related breathing disorders, pathomechanisms of snoring, increased upper airway resistance, obstructive and central apnoeic events and Pickwickian syndrome, cardiovascular, haematological, neurological, mental and endocrine complications of sleep-related breathing disorders, social consequences, symptomatology, sleep-related breathing disorders in patients with primary respiratory diseases, sudden infant death syndrome, management of sleep-related breathing disorders. Laboratory training: sleep laboratory service: polysomnography – registration of respiratory and cardiovascular parameters, oximetry, sleep architecture and muscle tone during sleep period and their evaluation.

Recommended literature:
Hand-outy Tomori a spol.: Základy spánkovej medicíny: poruchy spánku, poruchy životných funkcií v spánku. Košice. Vojenská letecká akadémia, 1999, s. 368.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 8

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

Lecturers: prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Jana Plevková, PhD.

Last change: 31.01.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Medical biochemistry, Internal Medicine Propaedeutics

Course requirements:
Lectures attendance - 70 % Practicals attendance - 90 % Credit test A: 91- 100%, B: 81- 90%, C: 73 - 80%, D: 66 - 72%, E: 60 - 65%, Fx: ≤ 59%
Scale of assessment (preliminary/final): Credit test

Learning outcomes:
Laboratory testing is inevitable in the differential diagnostic process, therapy and prevention of the diseases. The aim of the subject is to make students familiar with the work in the clinical-biochemical laboratory and to teach them, how to properly indicate the biochemical tests and how to interprete the results in patients with various clinical states.

Class syllabus:
The role of clinical biochemistry in medicine, the pricniples of specimen collection and sampling, preparation of the patient, indications of clinical-biochemical tests, the sources of errors in biochemical analysis, quality control, reference range, interpretation of the biochemical tests. The assessment of acid-base balance – primary and mixed disorders. Disturbances in the fluid and electrolytes balance – hyper – and hypo- natremia, kalemia, chloridemia. Metabolism of the lipoproteins, clinical-biochemical tests of the lipid metabolism, hyperlipidaemias, new perspectives in interpretation of dyslipidaemias. Tumor markers – clasification according to the biological function, use in the screening, diagnostics and therapy of tumor diseases. The clinical applications of genetic analysis – basic panels of single nucleotide polymorphisms in relation to thrombophilia, lipid metabolism, pharmacogenetics, hemochromatosis and osteoporosis. The examination of urine – chemical and microscopical, urinary wastes of minerals and metabolites. Electrophoretic methods.

Recommended literature:
Meško D, Pullmann R, Nosáľová G. Vademékum klinickej biochémie, Osveta Martin, 1998, 1647 s., ISBN 80-8063-005-4; Racek J et al. Klinická biochemie, II. ed., Galén, 2006, 329 s., ISBN 8072623249

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 184

A	ABS0	B	C	D	E	FX
99,46	0,54	0,0	0,0	0,0	0,0	0,0

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

Last change: 13.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15
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: 23

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

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc.

Last change:

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/J-S-VL-082/19	**Course title:** Clinical Immunology
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** ,5 / ,5 **per level/semester:** 7,5 / 7,5 **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, get know the specificities of management of selected immune-mediated diseases	
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 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	
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	
Languages necessary to complete the course: Slovak language	
Notes:	

Past grade distribution
Total number of evaluated students: 37

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

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

Last change: 28.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
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:
Lectures: importance of basic science knowledge in clinical practice, the role of clinical research in recognition of the pathomechanisms of diseases, symptoms and signs of diseases: the role of tissue injury, involvement of compensatory and defensive mechanisms, occurrence of positive feed-backs in the development of pathological processes, scoring systems: quantification of symptoms intensity and clinical state of patient, pathomechanisms of disease complications, clinical thinking and differential diagnosis, evidence based medicine – modern management of diseases. Seminars and clinical training: problem-based teaching methods are using to solve clinico-pathophysiological tasks in „virtual patient“, evaluation of symptoms and signs in patients suffering from different cardiovascular, respiratory, renal and gastrointestinal diseases and their pathophysiological interpretation; concentration to pathophysiological analysis of patient symptoms, mechanisms for the developmental progression of disease and pathophysiological principles of treatment.

Recommended literature:
hand-outs http://www.medinfo.sk

Languages necessary to complete the course:
Slovak language

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. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD.

Last change: 29.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Successfull passing the courses of Pharmacology 1 and 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:
Jozef Marek a kol.: Farmakoterapie vnitřních nemocí. Grada, 1998, 712 s. + novšie vydania Claus Simon, Wolfgang Stille: Antibiotika v současné lékařské praxi. Grada, 1998, 712 s. Ivan Ďuriš a kol.: Princípy internej medicíny I., II., III. Slovak Academic Press, 2951 s. K.D.Grosser a kol.: Naliehavé situácie vo vnútornom lekárstve. Osveta, 1996, 746 s. Rastislav Dzúrik, Tomáš Trnovec: Štandardné terapeutické postupy. Osveta, 1997, 2002, 975 s. Katzung, B.G.: Základní & klinická farmakologie. H & H Vyšehradská s.r.o., Praha, 2006. Meško, D., Pullmann, R., Nosáľová, G.: Vademékum klinickej biochémie, Martin, Osveta 1998. Lincová, D., Farghali, H. A kol.: Základní a aplikovaná farmakologie, II. vydání. Galén, 2007. Lincová, D., Farghali, H. A kol.: Základní a aplikovaná farmakologie I. vydání, Galén, 2001. Mirossay, L., Mojžiš, J. a kol.: Základná farmakológia a farmakoterapia, Equilibria, 2006.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 66

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. RNDr. Soňa Fraňová, PhD., doc. MUDr. Martina Šutovská, PhD.

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMI/J-S-VL-107/19	Clinical microbiology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 15 / 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
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: 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. Elena Nováková, PhD., MUDr. Jana Kompaníková, PhD., MUDr. Martina Neuschlová, PhD., MUDr. Vladimíra Sadloňová, PhD.

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚO/J-S-VL-127/19	**Course title:** Clinical skills
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** 1 **per level/semester:** 15 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites:	
Course requirements: Subject evaluation is based on the written test and the practical exam; student must achieve at least 60 %. Evaluation: A: 91-100 %, B: 81-90 %, C: 73-80 %, D: 66-72 %, E: 60-65 %, Fx: less than 60 %	
Learning outcomes: By completion of the subject student gains reliable evidence-based information for safe performance of clinical practice. Student understands standard procedures of selected nursing techniques, interventions and procedures. While using the methods of simulation, demonstration, case study and learning by doing method the student gains theoretical knowledge and practical skills in performance of basic clinical procedures within healthcare provision. Acquired clinical competences together with ability to argue for and justify the procedure chosen while performing intervention will become the basis for the ability to respond clinically correctly and safely to situations with which a graduate of the subject will be confronted in the future, in real conditions of clinical practice.	
Class syllabus: 1. Assessment and management of acutely deteriorating patient I. ABCDE approach of assessment and management, SBAR communication: assessing and monitoring vital signs (body temperature, blood pressure, pulse, respiration, oxygen saturation measured by pulse oximetry); collecting blood specimens (venipuncture of peripheral vein – obtaining blood specimen by open / closed method; obtaining blood specimen from central venous catheter; obtaining capillary blood specimen for blood gases test, laboratory blood glucose test and glucose monitoring via blood glucose meter). 2. Assessment and management of acutely deteriorating patient II. ABCDE approach of assessment and management, SBAR communication: naso/orogastric tube insertion, urinary catheterization. 3. Assessment and management of a patient with parenteral therapy I. The procedure of patient assessment and management, SBAR communication: obtaining peripheral intravenous access (peripheral i.v. line insertion), care of peripheral and central intravenous accesses; administering injections –preparing and application (intradermal, subcutaneous, intramuscular, intravenous). 4. Assessment and management of a patient with parenteral therapy II. The procedure of patient assessment and management, SBAR communication: preparing and application of i.v. infusions, preparing and application of blood therapy (pre-transfusion tests, adverse reactions). 5. Assessment	

and management of a patient with wound The procedure of patient assessment and management, SBAR communication: handling sterile material, sterile field preparation, wound care – aseptic / chronic wound, applying bandages

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. Dostupné na: http://e-knihy.jfmed.uniba.sk/knihy/ostech/ ISBN 978-80-89544-88-2. DINGOVÁ, M., LEPIEŠOVÁ, M., ROSENBERG, A. et al. Basics of Nursing. Textbook for Medical and Nursing Students. Martin : Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, 2011. 283 p. ISBN 978-80-88866-6-88-6. HANÁČEK, J., MOKRÝ, J. a kol. Trendy v medicínskom vzdelávaní a hodnotení jeho výsledkov. Vysokoškolská učebnica pre mladých učiteľov a doktorandov na lekárskych fakultách. Martin: Osveta, 2018. 255 s. ISBN 978-80-8063-460-3. KOZIER, B., BERMAN, A., ERB, G., SNYDER, S. J. Fundamentals of Nursing: Concepts, Process and Practice.7th ed. Pearson Prentice Hall, 2004. 1500 p. ISBN 0130455296. 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 at: http://portal.jfmed.uniba.sk/articles.php?aid=187

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 15

A	ABS0	B	C	D	E	FX
46,67	0,0	46,67	6,67	0,0	0,0	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Anna Ovšonková, PhD.

Last change: 20.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-125/18	**Course title:** Communication in Clinical Practice (1)
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** 1 **per level/semester:** 15 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Medical psychology and basics of communication	
Course requirements: 1. The participation in practicals is compulsory for at least 6-times (12 hours, especially from 1st to 11th 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, case reports and analysis	
Learning outcomes: A student shall understand the fundamental aspects of potentially difficult situations that may in interaction doctor – patient occur. A student shall understand the general communication abilities and with so-called problematic group of patients, e.g. aggressive, agitated and non- cooperating patients. A student will be able to understand and to use the specifics of communication with the patients with anxiety, depression, suicidal behavior and patients with somatization. A student will know the specifics of the communication with patients with cognitive disorder, delirium, psychotic and manic disorder. A student shall understand the psychological aspects of patient complaints and communication skills in the medical team. Self-experience in education develops awareness and experiencing emotions of themselves and others, self-support and support, self-reflection and decent work with defense mechanisms type of projection, rationalization, reflection and reinforcement of empathy, strengthening the ability to manage affective responses.	
Class syllabus: I. practical exercises (2 hours) Communication in medicine – characteristic and meaning. Basic communication skills of doctor: effective listening, empathy, understanding, advices. II. practical exercises (2 hours)	

Verbal and nonverbal communication in medicine. Criteria of effective communication in medicine. Psychotherapy and communication. Communication in interdisciplinary team of health staff. Communication with patient´s relatives.
III. practical exercises (2 hours)
Non-compliance patients. Dissatisfied and aggressive patient. Patient´s silence. Conflict in doctor ´s work and its solution.
IV. practical exercises (2 hours)
Communication with anxious and somatoform patient. Communication with depressive patient. Communication with suicidal patient.
V. practical exercises (2 hours)
Communication with cognitive disability and intellectual disability patient.
VI. practical exercises (2 hours)
Communication with qualitative disturbance of consciousness.
VII. practical exercises (2 hours)
Communication with psychotic patient. Communication with manic patient.

Recommended literature:

Morovicsová E. a kol. Komunikácia v medicíne. Univerzita Komenského, Bratislava 2011,212 s.
Linhartová V. Praktická komunikace v medicíně. Grada, Praha 2007, 152 s.
Honzák R. Komunikační pasti v medicině , Praha Galén 1997
Linhartová V. Praktická komunikace v medicíně, Grada Publishing, 2007
Bendová M., Honzák R. Doporučení pro partnery nemocných s rakovinou, aby byli svým blízkým skutečně prospěšní“ Remedia Populi, 2001,str.14-18.
Žucha I., Čaplová T. a kol. Lekárska psychológia. Univerzita Komenského, Bratislava 2008, 208 s.
Raudenská J., Javůrková A. Lékařská psychologie ve zdravotnictví. Grada, Praha 2011, 304 s.
Beran J. a kol. Lékařská psychologie v praxi. Grada, Praha 2010, 144 s.

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 188

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.

Last change: 26.09.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-126/18	**Course title:** Communication in Clinical Practice (2)
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** 1 **per level/semester:** 15 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 9.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Medical Psychology and Basics of Communication	
Course requirements: 1. The participation in practicals is compulsory for at least 6-times (12 hours, especially from 1st to 11th week). 2. Check in the course of practicals: active participation in practicals; permanent study check (control questions); examination of patients, case reports and analysis (specific communication problem solving in different branch of medicine)	
Learning outcomes: A student shall understand the specific aspects of potentially difficult situations that may in interaction doctor – patient occur. A student shall understand the specifics of outpatient and inpatient care, the communication with long-term and chronically ill patients, with handicapped patients. A student shall handle the reporting of bad messages or messages with infaust prognosis. A student shall understand and handle the specifics of communication in different development stages - childhood and senium. A student shall handle the specifics of communication with the internal medicine and polymorbid patient, surgical patients and psychological specifics of communication in obstetrics and gynecology. A student shall understand and handle the specifics of communication with so-called problematic group of patients, for example with intoxicated and addicted patients, with personality disorder patients. A student shall understand the psychological aspects of patient´s complaints, their relatives and communication skills in a medical team.	
Class syllabus: I. practical exercises Specifics of communication with somatically ill patient in child age and adolescence. Communication with parents. Specifics of communication in child psychiatry. II. practical exercises	

Specifics of communication with internal medicine patient, polymorbid patient and seniors.
III. practical exercises
Specifics of communication with surgical patient.
IV. practical exercises
Specifics of communication in obstetrics and gynecology.
V. practical exercises
Communication with intoxicated and addicted patient. Communication with personality disorder patient.
VI. practical exercises
Communication with seriously ill and dying patient. Communication with oncological patient. Reporting of negative/adverse messages. Communication with relatives.
VII. practical exercises
Communication with physical disability patient. Communication with sensory disability patient.

Recommended literature:

Morovicsová E. a kol. Komunikácia v medicíne. Univerzita Komenského, Bratislava 2011,212 s.
Linhartová V. Praktická komunikace v medicíně. Grada, Praha 2007, 152 s.
Honzák R. Komunikační pasti v medicině , Praha Galén 1997
Linhartová V. Praktická komunikace v medicíně, Grada Publishing, 2007
Bendová M., Honzák R. Doporučení pro partnery nemocných s rakovinou, aby byli svým blízkým skutečně prospěšní“ Remedia Populi, 2001,str.14-18.
Žucha I., Čaplová T. a kol. Lekárska psychológia. Univerzita Komenského, Bratislava 2008, 208 s.
Raudenská J., Javůrková A. Lékařská psychologie ve zdravotnictví. Grada, Praha 2011, 304 s.
Beran J. a kol. Lékařská psychologie v praxi. Grada, Praha 2010, 144 s.

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 321

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.

Last change: 03.09.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 30
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
microbiology 2, 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: 187

A	ABS0	B	C	D	E	FX
65,24	0,0	23,53	8,02	3,21	0,0	0,0

Lecturers: prof. MUDr. Juraj Péč, CSc., doc. MUDr. Eva Minariková, PhD.

Last change: 29.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFy/J-S-VL-093/18	Diploma Thesis Seminar (1)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 1 **per level/semester:** 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

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: 209

A	ABS0	B	C	D	E	FX
97,13	0,0	2,39	0,48	0,0	0,0	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., doc. MUDr. Marta Jošková, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., doc. MUDr. Martina Šutovská, PhD., Mgr. Ivana Kazimierová, PhD., PharmDr. Martin Kertys, PhD., MUDr. Ladislav Šutiak, PhD., prof. MUDr. Ľudovít Laca, PhD., MUDr. Marek Adámik, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Ivana Dedinská, PhD., doc. MUDr. Anton Dzian, PhD., prof. MUDr. Alexander Ferko, CSc., 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, MUDr. Marek Smolár, PhD., MPH, MUDr. Martin Vojtko, doc. MUDr. Branislav Kolarovszki, PhD., MUDr. Romana Richterová, PhD., prof. MUDr. Lukáš Plank, CSc., prof. MUDr. Katarína Adamicová, PhD., MUDr. Tomáš Balhárek, PhD., MUDr. Jozef Mičák, PhD., MUDr. Jaroslav Fábry, PhD., prof. MUDr. Ján Staško, PhD., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., Ing. Ingrid Škorňová, 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., doc. MUDr. Vladimír Čalkovský, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. MUDr. Mirko Zibolen, CSc., MUDr. Tomáš Jurko, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Ema Kantorová, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, doc. MUDr. Štefan Sivák, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Dušan Meško, PhD.

Last change: 29.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHT/J-S-VL-095/19	**Course title:** Diploma Thesis Seminar (2)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 5,33 **per level/semester:** 79,95
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: 187

A	ABS0	B	C	D	E	FX
99,47	0,0	0,53	0,0	0,0	0,0	0,0

Lecturers: MUDr. Ladislav Šutiak, PhD., 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., doc. Ing. Viera Jakušová, PhD., MPH, Ing. Stanislav Kuka, PhD., prof. MUDr. Viera Švihrová, CSc., PhDr. Marta Tkáčová, PhD., prof. RNDr. Soňa Fraňová, PhD., doc. MUDr. Marta Jošková, PhD., Mgr. Ivana Kazimierová, PhD., PharmDr. Martin Kertys, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., doc. MUDr. Martina Šutovská, PhD., prof. MUDr. Renata Péčová, PhD., prof. MUDr. Jana Plevková, PhD., prof. MUDr. Miloš Tatár, CSc., doc. RNDr. Mariana Brozmanová, PhD., MUDr. Tomáš Buday, PhD., prof. MUDr. Ľudovít Laca, PhD., MUDr. Marek Adámik, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Ivana Dedinská, PhD., doc. MUDr. Anton Dzian, PhD., prof. MUDr. Alexander Ferko, CSc., 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, 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., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., Ing. Ingrid Škorňová, PhD., doc. MUDr. Vladimír Čalkovský, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Mirko Zibolen, CSc., MUDr. Tomáš Jurko, PhD., doc. MUDr. Branislav Kolarovszki, PhD., MUDr. Romana Richterová, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Ema Kantorová, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, doc. MUDr. Štefan Sivák, 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. Jaroslav Fábry, PhD.

Last change: 22.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KHT/J-S-VL-096/19	**Course title:** Diploma Thesis Seminar (3)

Educational activities:
Type of activities: seminar
Number of hours:
per week: 5,33 **per level/semester:** 79,95
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: 106

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

Lecturers: MUDr. Ladislav Šutiak, PhD., 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., doc. Ing. Viera Jakušová, PhD., MPH, Ing. Stanislav Kuka, PhD., prof. MUDr. Viera Švihrová, CSc., PhDr. Marta Tkáčová, PhD., prof. RNDr. Soňa Fraňová, PhD., doc. MUDr. Marta Jošková, PhD., PharmDr. Martin Kertys, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., doc. MUDr. Martina Šutovská, PhD., Mgr. Ivana Kazimierová, PhD., prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD., prof. MUDr. Jana Plevková, PhD., MUDr. Tomáš Buday, PhD., doc. RNDr. Mariana Brozmanová, PhD., prof. MUDr. Ľudovít Laca, PhD., MUDr. Marek Adámik, PhD., MUDr. Ivana Daňová, PhD., doc. MUDr. Ivana Dedinská, PhD., doc. MUDr. Anton Dzian, PhD., prof. MUDr. Alexander Ferko, CSc., 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, 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., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD., Ing. Ingrid Škorňová, PhD., doc. MUDr. Vladimír Čalkovský, PhD., prof. MUDr. Andrej Hajtman, PhD., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Mirko Zibolen, CSc., MUDr. Tomáš Jurko, PhD., doc. MUDr. Branislav Kolarovszki, PhD., MUDr. Romana Richterová, PhD., prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Ema Kantorová, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, doc. MUDr. Štefan Sivák, 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. Jaroslav Fábry, PhD.

Last change: 22.10.2019

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF/2-JVL-SS5/17	**Course title:** Diploma Thesis and Defense of Diploma Thesis
Number of credits: 4	
Educational level: I.II.	
State exam syllabus:	
Last change:	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
internal medicine 3

Course requirements:
Attendance of 100 % of practice workouts and successful completition of final test.

Learning outcomes:
With completition of the subject, students will obtain practical skills in cardiopulmonary resuscitatiion, first aid, initial management of patients with life threathening situations, organisation of mass accidents a disasters.

Class syllabus:
Basica 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 2015, https://cprguidelines.eu
ATLS Student course manual American college of surgeons committee on Trauma, tenth edition, 2018
European Trauma Course ERC, 2015
James G. Adams et al. Emergency Medicine . Elsevier, 2014.
Wyatt, J. P. et al. Oxford Handbook of Emergency Medicine. New York: Oxford University Press, 2006. 768 s. ISBN 978-0-19-920607-0

Languages necessary to complete the course:
english

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
51,87	0,0	22,46	9,63	11,23	4,81	0,0

Lecturers: doc. MUDr. Milan Minarik, PhD., prof. MUDr. Beata Drobná Sániová, PhD., MUDr. Silvia Učňová, MUDr. Denisa Osinová, PhD.
Last change: 15.09.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-105/18	**Course title:** Financing of Healthcare System and Health Insurance

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 15 / 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 0/100

Learning outcomes:
After completion of the subject the student understands the history of health insurance system in Slovakia and relations between health insurance participants, current health care system in Slovakia, rights and obligations of insured person, and principles of solidarity in the public health insurance system. The student is able to identify the forms of health care financing and prevention, basic payment methods. The student understands the development of available sources, principles of health care purchasing, and control mechanisms during the health care providing and in health insurance system.

Class syllabus:
Health insurance models.
Reform of health insurance system in Slovakia, sources of funding, their structure, principle of redistribution.
Participants in health insurance system.
The tasks of health insurance company in the provision of health care, rights and obligations of insured person.
Control mechanisms in health insurance system.
Different forms of health care financing, payment methods.
Current situation in health care financing.

Recommended literature:
Recommended literature:
ONDRUŠ, P., ONDRUŠOVÁ, I. A KOL. Manažment a financovanie v zdravotníctve: príručka zdravotníckeho manažéra Bratislava: Matica slovenská, 2017. 320 s.
KOVÁČ E.: Zdravotné poistenie. Bratislava, Herba, 2009, s. 96, ISBN 978-80-89171-62-0
Zákon č. 580/2004 Z. z. v znení neskorších predpisov
Zákon č. 581/2004 Z. z. v znení neskorších predpisov
aktuálna Správa o stave vykonávania verejného zdravotného poistenia (Vestník ÚDZS)
materiály dostupné na: www.health.gov.sk, www.udzs.sk

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 128

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

Lecturers: prof. MUDr. Viera Švihrová, CSc.

Last change: 24.08.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30
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): 2 written tests - min. 60%

Learning outcomes:
Goal of the 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
- Education
Getting acquinted with Medical Faculty, opinion exchange, classroom discussion.
Grammar revision, Vocabulary enrichment.
- The Human Body
Description of the human body, work with idioms, rephrasing.
Locative adjectives, verbs, adverbs and, prepositions, word formation.
- Body Systems
Description of the Body Systems, of functions and organs.
Forming adjectives from nouns.
- The Cell
Guessing the true/false statements, scanning the text, guided note taking, asking questions, Summary writing
Irregular plural, Word formation.
- Body Fluids
Comparision of idioms, guided note taking, pair work, rephrasing, discussion
Adjectives, Compound adjectives, Adverbs.
- The Cardiovascular System
Labelling the diagram of the heart, guessing the true/false statements, choosing the correct phrases.

Verbs of description, Use of the verbs pass and flow, Relative clauses, Modifiers.
- The Nervous System
Solving the puzzle, scanning the table, discussion, making predictions, skimming the text, asking questions.
Negativeprefixes.
- Sleep
Guessing true/false statements, making definitions.
Expressing certainty, uncertainty,possibility/probability.
- Medical Examination
Discussion, pair work, scanning the text, fulfilling the chart, completing the sentences.
Causative use of have.
- Communication between Doctor and Patient
Asking about complaints, taking a past history, taking a family history, asking about systems.
Vocabulary enrichment, Various conversational phrases.
- Hospitalization
Answering questions, skimming the text, discovery a ctivities.
Structures: to be used to, to get used to.

Recommended literature:

Deutsch:

x Bujalková, M., Barnau, A: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige ärzte. Martin: Vydavateľstvo Osveta 2018. 227 s. ISBN: 978-80-8063-465-0
Ivanová, A., Pobudová, K.: Deutsch für medizinische Berufe. Bratislava: UK, 2004. 262 s.
Dusilová, D. a kol.: Sprechen Sie Deutsch? Učebnice němčiny pro zdravotnické odbory. Praha: Polyglot, 2004. 357 s.

Languages necessary to complete the course:

English Language, German Language

Notes:

Past grade distribution

Total number of evaluated students: 782

A	ABS0	B	C	D	E	FX
29,03	2,05	34,02	19,82	11,13	3,96	0,0

Lecturers: PhDr. Mária Bujalková, CSc., Mgr. Anna Barnau, PhD., PhDr. Božena Džuganová, PhD.

Last change: 10.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚCJ/J-S-VL-CJ2/19	Foreign Language (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 30
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Foreign language 1

Course requirements:
1 written test + presentation and final exam (written and verbal part), 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%

Learning outcomes:
Goal of the 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. Neurology
Effects of aging on the nervous system. Watching the video: Alzheimer's and Parkinson's diseases. Crossword solving, table description, discussion, predictions, quick reading, questions, abstracts writing. Grammar: Negative prefixes
2. Sleep
Your sleeping habits - a quiz. Sleep Stages - Sleep Cycles. Video watching - What happens when we sleep. Grammar: Gerund and infinite - the most common verbs. Insomnia - Communicational Themes. Famous People - Sigmund Freud.
3. Mental disorders
Famous celebrities with mental disorders. Anatomical Basis: Brain and mental health. Obsessive disorder. Grammar: Phrasal verbs. Video: Life with a mental disorder. Presentations about people who have lived with a mental disorder.
4. Infectious diseases
Brainstorming. Bacterial and viral diseases. Grammar: Passive voice. What Is Meningitis? Video: Signs and symptoms of meningitis. Role-play. Crossword solving.
5. Respiratory diseases

Marking a diagram. Pneumonia. Grammar: How to give instructions. Listening: Asthma. Grammar: Plural endings. A bit of clinical medicine: cough, sputum, mucus.
6. Cancer
Quiz about cancer history. Video: Symptoms and information about colon cancer. Degrees and types of cancer. Grammar: Using the conditional. Communication - Principles of announcing bad messages. Famous celebrities: Percivall Pott, Bernardino Ramazzini, Tobias Venner.
7. THE FIRST TEST
8. HIV/AIDS
The main 10 myths and misunderstandings about HIV and AIDS. Common facts about HIV and AIDS. Advances in HIV treatment. Grammar: Adverbials. Did you know? December 1st is the ribbon day.
9. Examination of the patient
Description of situations in the pictures. General practitioner. Video: General medical examination. Polite requests. Four basic examining procedures. Terms used in haematological and biochemical laboratory tests.
10. Communication with the patient
Brainstorming. Asking the questions. Video: Clinical history (demonstrated on a patient). Communication with children and elder patients. A bit of clinical medicine: case study.
11. Hospital Admission
First aid kit. Video: Inside the busiest British Accident Department. Exclusive 24 Hours at the Accident at Queen Medical Centre Nottingham. Listening: In the hospital. Role-play.
12. Surgery
Discussion. Minimally Invasive Surgery. Artificial surgeon robots are the future of medicine. Brainstorming - anaesthesia. Surgical Instruments and Procedures.
13. PRESENTATIONS
14. Credit (substation) week

Recommended literature:

English language
Džuganová, B.– Zrníková, P.: English in General Medicine. Vydavateľstvo UK, Bratislava, 2016.
Džuganová, B. – Gresty, J.: Angličtina pre lekárov a pracovníkov v zdravotníctve. Eastone Books. 2014.
Glendinning, E. – Holmström, B.: English in Medicine. A Course in Communication Skills. Cambridge. Univ.Press 1992.
German language
James, D.V.: Medicine. English for Academic Purposes Series. London. Prentice Hall 1992.
Nemecký jazyk
Bujalková, M., Barnau, A.: Fachdeutsch Medizin. Ein Lehrbuch für zukünftige Ärzte. Martin: Vydavateľstvo Osveta, 2018. 227 s., učebnica.

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

Notes:

Past grade distribution
Total number of evaluated students: 245

A	ABS0	B	C	D	E	FX
46,94	0,0	35,1	12,24	4,08	1,22	0,41

Lecturers: PhDr. Mária Bujalková, CSc., Mgr. Anna Barnau, PhD., PhDr. Božena Džuganová, PhD., Mgr. Nora Malinovská, PhD., Mgr. Hana Nemčeková
Last change: 23.09.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Exam from Foreign Language 2 (1st year of study)

Course requirements:
Exam from Foreign Language 2 (1st year of study)
Credit tests - min. 60%
Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60%

Learning outcomes:
The main outcome of the course is expansion of specialized vocabulary. Emphasis is placed on developing the ability to listen to patient complaints, and respond to them, asking questions necessary in taking patient's history, instructing the patient during physical examination, explaining the necessary treatment and advising him what should or should not do. The output of the course is training of given language skills.

Class syllabus:
English language:
Unit 1: Presenting complaints
personal details, diagnosing presenting complaints,
a case report describing pain
asking questions, tenses,
Unit 2: Working in general practice
description of a GP´s job, a case study, a referral letter
present perfect, past simple
Unit 3: Instructions and procedures
preparing for the first ward round, giving instructions,
making polite request
Unit 4: Explaining a reassuring
gastroscopy, an explanation of possible complications
present passive, future tense
Unit 5: Dealing with medication
prescribing drugs in hospital, side effects
abbreviations, phrasal verbs

Unit 6: Lifestyle
sympathy and empathy, family history, encouraging patients,
overweight and obesity
making suggestions
Presentations
Unit 7: Parents and young children
applying for work, sharing experience
first and second conditional
Unit 8: Communication
appropriate responses, dealing with a defensive patient
asking open/closed questions
Unit 9: Working in psychiatry
mental state examination
past simple, past perfect
Unit 10: Terminal illness and dying
breaking bad news, patient´s emotions
expressing likes/dislikes
Unit 11: Working in team
politeness in different cultures, describing attitude and behaviour
communication with colleagues
Unit 12: Diversity at work
asking about culture, multiculturalism
reported speech
14 Test

Recommended literature:
English language: McCARTER, S.: Medicine 1. Oxford English for Careers, 2009
Germena language: Lösche, R.-P., Koithan, U., Schmitz, H., Mayr-Sieber, T.: Aspekte, Mittelstufe Deutsch, München: Langenscheidt bei Klett, 2010, 207 S. Schrimpf, U., Bahnemann, M.: Deutsch für Ärztinnen und Ärzte: Kommunikationstraining für Klinik und Praxis, 2. Aufl., Berlin: Springer, 2012, 160 S. Dusilová, Doris: Sprechen Sie Deutsch? 1. Učebnice němčiny pro zdravotnické obory, Polyglot, 2012, 358 S.

Languages necessary to complete the course:
English language, German 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: PhDr. Mária Bujalková, CSc., Mgr. Anna Barnau, PhD., PhDr. Božena Džuganová, PhD.

Last change: 10.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚCJ/J-S-VL-CJ6/18	**Course title:** Foreign Language for Special Purposes (2)
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** 2 **per level/semester:** 30 **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: Credit tests - min. 60% Evaluation: A: 91-100%, B: 90-81%, C: 80-73%, D: 72-66%, E: 65-60%, FX: less than 60%	
Learning outcomes: The main outcome of the course is expansion of specialized vocabulary. Emphasis is placed on developing the ability to listen to patient complaints, and respond to them, asking questions necessary in taking patient's history, instructing the patient during physical examination, explaining the necessary treatment and advising him what should or should not do. The output of the course is training of given language skills.	
Class syllabus: Unit 1: Emergency medicine description of an emergency incident, signs and symptoms adjectives, adverbs, rapid tense change Unit 2: Accidents accident prevention measures, fractures, minor injuries, X-ray saying what´s necessary politely but firmly Unit 3: Sports medicine head injury, physical fitness and health, instructions, warnings, persuasion types of questions, verbs of movement Unit 4: Obstetrics stages of labour, supporting opinions giving advice, discussing pregnancy lay words/medical terms, talking about expectations Unit 5: Psychiatry psychiatric symptoms, abnormal perceptions, depression and anxiety, assessing risk phrasal verbs, verbs with prepositions Unit 6: Geriatrics Parkinson´s and Alzheimer´s	

would/used to, get/be used to
Presentations
Unit 7: Dermatology
diagnosis and management skin conditions
stress in words and sentences
Unit 8: Surgery
an ovarian cysts, explaining treatments
relative pronouns
Unit 9: Cardiology
cardiac risk factors, hypertension advice about lifestyle changes
future, avoiding medical terms, stress, natural speed of speech
Unit 10: Respiratory medicine
lung conditions, inhalers
definite/indefinite article
Unit 11: Tropical diseases
public health, sickle-cell anemia
linking words
Unit 12: Technology
stem cell therapy, technological advances
negative questions
Test

Recommended literature:

English language:
McCARTER, S.: Medicine 2. Oxford English for Careers, 2010
German language:
Lösche, R.-P., Koithan, U., Schmitz, H., Mayr-Sieber, T.: Aspekte, Mittelstufe Deutsch, München: Langenscheidt bei Klett, 2010, 207 S.
Schrimpf, U., Bahnemann, M.: Deutsch für Ärztinnen und Ärzte: Kommunikationstraining für Klinik und Praxis, 2. Aufl., Berlin: Springer, 2012, 160 S.
Dusilová, Doris: Sprechen Sie Deutsch? 1. Učebnice němčiny pro zdravotnické obory, Polyglot, 2012, 358 S.

Languages necessary to complete the course:

English language, German 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: PhDr. Mária Bujalková, CSc., Mgr. Anna Barnau, PhD., PhDr. Božena Džuganová, PhD.

Last change: 24.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
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.

Learning outcomes:

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:
Buris, L.: Forensic Medicine. Springer Vrlg., 1993, 416 pp
DiMaio, V.J., DiMaio, D.: Forensic Pathology, CRC Press, Washington, D.C., 2001, 565 pp

Languages necessary to complete the course:
Slovak Language

Notes:

Past grade distribution
Total number of evaluated students: 181

A	ABS0	B	C	D	E	FX
68,51	0,0	23,2	7,18	1,1	0,0	0,0

Lecturers: prof. MUDr. František Novomeský, PhD., doc. MUDr. Jozef Krajčovič, PhD., doc. MUDr. Ľubomír Straka, PhD., MUDr. Martin Janík, PhD.

Last change: 21.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
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: 19.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IK1/J-S-VL-091/19	General Medicine and Practice at General Practitioner

Educational activities:
Type of activities: lecture
Number of hours:
per week: 1 **per level/semester:** 15
Form of the course: on-site learning

Number of credits: 2

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: 187

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

Lecturers: doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Ľubica Jakušová, PhD.

Last change: 22.10.2019

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.GPK/2-JVL-SS3/17	**Course title:** Gynecology and Obstetrics
Number of credits: 3	
Educational level: I.II.	
Prerequisites: JLF.GPK/2-JVL-064/17 - Gynecology and Obstetrics (3)	
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: Danko, J., Mlynček, M.: Vybrané kapitoly z gynekológie a pôrodníctva. Bratislava: Vydavateľstvo UK, 1991, 114s. Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva II, Bratislava: Vydavateľstvo UK, 1994, 207 s. Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva III, Bratislava: Vydavateľstvo UK, 1999, 190s. Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2008, 170 s. Huch, A.: Praktické postupy v pôrodníctve, Martin: Osveta, 1999, 246s. Čech, E a kol.: Porodnictví, Praha: Grada, 2006, 550s.	
Languages necessary to complete the course: Slovak.	
Last change: 11.01.2018	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 30
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites: JLF.ChKTC/J-S-VL-022/17 - Surgical Propedeutics

Recommended prerequisites:
Surgical propedeutics

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:

Danko, J., Mlynček, M.: Vybrané kapitoly z gynekológie a pôrodníctva. Bratislava: Vydavateľstvo UK, 1991, 114s. Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva II, Bratislava: Vydavateľstvo UK, 1994, 207 s. Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva III, Bratislava: Vydavateľstvo UK, 1999, 190s. Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2008, 170 s. Huch, A.: Praktické postupy v pôrodníctve, Martin: Osveta, 1999, 246s. Čech, E a kol.: Porodnictví, Praha: Grada, 2006, 550s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
99,47	0,0	0,53	0,0	0,0	0,0	0,0

Lecturers: doc. MUDr. Kamil Biringer, PhD., doc. MUDr. Erik Kúdela, PhD.

Last change: 27.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 30
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)

Recommended prerequisites:
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:

Danko, J., Mlynček, M.: Vybrané kapitoly z gynekológie a pôrodníctva. Bratislava: Vydavateľstvo UK, 1991, 114s. Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva II, Bratislava: Vydavateľstvo UK, 1994, 207 s. Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva III, Bratislava: Vydavateľstvo UK, 1999, 190s. Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2008, 170 s. Huch, A.: Praktické postupy v pôrodníctve, Martin: Osveta, 1999, 246s. Čech, E a kol.: Porodnictví, Praha: Grada, 2006, 550s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 83

A	ABS0	B	C	D	E	FX
98,8	1,2	0,0	0,0	0,0	0,0	0,0

Lecturers: doc. MUDr. Kamil Biringer, PhD., doc. MUDr. Erik Kúdela, PhD.

Last change: 27.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.GPK/2-JVL-064/17	Gynecology and Obstetrics (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 13,33 **per level/semester:** 199,95
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 11., 12..

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Gynecology and obstetrics 2, 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:
Danko, J., Mlynček, M.: Vybrané kapitoly z gynekológie a pôrodníctva. Bratislava:

Vydavateľstvo UK,
1991, 114s.
Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva II, Bratislava: Vydavateľstvo UK, 1994, 207 s.
Danko, J. a kol.: Vybrané kapitoly z gynekológie a pôrodníctva III, Bratislava: Vydavateľstvo UK, 1999, 190s.
Danko, J. a kol.: Aktuálny stav diagnostiky hypoxie plodu, Bratislava: Vydavateľstvo UK, 2008, 170 s.
Huch, A.: Praktické postupy v pôrodníctve, Martin: Osveta, 1999, 246s.
Čech, E a kol.: Porodnictví, Praha: Grada, 2006, 550s.

Languages necessary to complete the course:
Slovak.

Notes:

Past grade distribution
Total number of evaluated students: 475

A	ABS0	B	C	D	E	FX
90,32	0,0	9,47	0,21	0,0	0,0	0,0

Lecturers: doc. MUDr. Kamil Biringer, PhD., doc. MUDr. Erik Kúdela, PhD.

Last change: 11.01.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Internal disease II

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. Mokáň, M. a kol., Vnútorné lekárstvo. 3.diel. Bratislava: UK, 2005. 322 s. ISBN 80-223-1895-7
3. Klener, P. a kol., Vnitřní lékařství. Praha: Galén, 2011. 1174 s. 14. kapitola Hematologie. ISBN 978-80-246-1986-6
4. Češka, R. a kol., Interna. Praha: Triton, 2010. 855 s. 16. kapitola Hematologie. ISBN 80-7387-423-7
5. Penka M. a kol., Hematologie a transfuzní lékařství I. Praha: Grada, 2011. 421 s. ISBN 9788024734590
6. Penka M. a kol., Hematologie a transfuzní lékařství II. Praha: Grada, 2012. 208 s. ISBN 9788024734606
7. Haferiach, T. a kol., Kapesní atlas hematologie. Praha: Grada, 2014. 232 s. ISBN 978-80-247-4787-3
8. Kačírková P., Campr V., Hematoonkologický atlas krve a kostní dřeně. Praha: Grada, 2007. 304 s. ISBN 978-80-247-1853-8
9. Štvrtinová, V. a kol., Venózny tromboembolizmus, prevencia, liečba. Bratislava: Herba, 2009. 240 s. ISBN 978-80-89171-63-7
10. Pospišilová, Š. a kol., Molekulární hematologie. Praha: Galén, 2013. 316 s. ISBN 9788072629428

11. Sakalová, A. a kol., Klinická hematológia. Martin: Osveta, 2011. 295 s. ISBN 9788080633240
12. Hrušovský, Š. a kol., Internistická propedeutika. Bratislava: Herba, 2013, 800s. ISBN 978-80-89171-72-9
13. Kliment, J. a kol., Základy klinickej onkológie. Martin: Osveta, 2016, 206s. ISBN 9788080634308
14. Kliment, J. a kol., Základy klinickej onkológie – špeciálna časť. Martin: Osveta, 2016, 248s. ISBN 9788080634377
15. Řeháček, V. a kol., Transfuzní lékařství. Praha: Grada, 2012, 264s., ISBN 9788024745343
16. Kubisz, P. a kol., Trombocyty a trombocytopatie. Martin: Osveta, 1987. 300 s.
17. 17. Sokol, J. a kol., Priame perorálne antikoagulanciá, Martin:Osveta, 2018, 265 p., ISBN 978-80-80-8063-463-6
18. 18. Štvrtinová, V. a kol., Venózny tromboembolizmus. Bratislava: Slovak Academic Press, 2018. 388 p. ISBN 978-80-89607-60-0

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
63,1	0,0	22,46	9,63	3,21	1,6	0,0

Lecturers: prof. MUDr. Ján Staško, PhD., prof. MUDr. Peter Kubisz, DrSc., MUDr. Lenka Lisá, PhD., doc. MUDr. Juraj Sokol, PhD., MUDr. Lucia Stančiaková, PhD., MUDr. Tomáš Šimurda, PhD.

Last change: 09.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚHE/J-S-VL-005/15	Histology and Embryology (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 4 / 2 **per level/semester:** 60 / 30
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Course requirements:
- Student actively participates in 93% of all practical sessions (a student is allowed to miss out one practicum 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 3 written tests (1 question, 4 possible answers, only one is correct), minimum percentage to pass each test is 70%,
3. practical (credit exam) – to diagnose and describe 2 human tissues 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 orientate 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.
- Respiratory system - embryology, general organization and subdivision, upper portion, trachea, bronchial tree, respiratory portion, BALT, clinical correlations.
- Differential diagnosis of human tissues and organs.

Recommended literature:

Junqueira L.C., Carneiro J., Kelley R. O.: Základy histológie. Praha H&H, 1995, 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, 1990. 237 s. ISBN 80-2170-130-7
Kapeller, K., Pospíšilová, V.: Embryológia človeka. Martin: Osveta, 1991. 341 s. ISBN 80-2170-332-6
Adamkov M.: Apoptóza: Koža a vybrané ochorenia kože. Vydavateľstvo HONNER. 2010, 89 s. ISBN: 978-80-968399-7-1
Adamkov M. a spol.: Morfológia a klinika myofasciálnej bolesti hlavy. Vydavateľstvo P+M Turany. 2010, 65 s. ISBN: 978-80-89410-09-5

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 779

A	ABS0	B	C	D	E	FX
62,52	2,18	21,18	9,63	3,47	1,03	0,0

Lecturers: prof. MUDr. Marian Adamkov, DrSc., doc. MVDr. Soňa Bálentová, PhD., RNDr. Mária Kovalská, PhD., MUDr. Eva Ochodnická, CSc., RNDr. Veronika Mešťanová, PhD.

Last change: 12.12.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚHE/J-S-VL-006/17	**Course title:** Histology and Embryology (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 2 **per level/semester:** 45 / 30
Form of the course: on-site learning

Number of credits: 8

Recommended semester: 3.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Histology and embryology 1

Course requirements:
- Student actively participates in 93% of all practical sessions (a student is allowed to miss out one practicum for serious reason).
- Forms of knowledge control:
1. discussion by microscope – description of histological slides (in case that student is not able to discuss functional histology of human tissues and organs in question, he/she will be asked to substitute the session in the last conpensatory week),
2. student is required to pass 2 written tests (1 question, 4 possible answers, only one is correct), minimum percentage to pass each test is 70%,
3. practical (credit exam) – to diagnose 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 onthogenetic 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.
- Lymphoid system - embryology, classification of lymphocytes, primary and secondary lymphatic organs and tissues, functional histology of thymus, lymph node, spleen, and tonsil, 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:

Junqueira L. C., Carneiro J., Kelley R. O.: Základy histológie. Praha H&H, 1995, 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, 1990, 237 s. ISBN 80-2170-130-7

Kapeller, K., Pospíšilová, V.: Embryológia človeka. Martin: Osveta, 1991, 341 s. ISBN 80-2170-332-6

Adamkov M.: Apoptóza: Koža a vybrané ochorenia kože. Vydavateľstvo HONNER. 2010, 89 s. ISBN: 978-80-968399-7-1
Adamkov M. a spol.: Morfológia a klinika myofasciálnej bolesti hlavy. Vydavateľstvo P+M Turany. 2010, 65 s. ISBN: 978-80-89410-09-5

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 536

A	ABS0	B	C	D	E	FX
40,86	0,0	16,04	21,27	12,5	8,77	0,56

Lecturers: prof. MUDr. Marian Adamkov, DrSc., MUDr. Eva Ochodnická, CSc., doc. MVDr. Soňa Bálentová, PhD.

Last change: 12.12.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMI/J-S-VL-103/19	Immunology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 15 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Medical biology 2

Course requirements:
- it is obligatory to be present at practicals (1 absence is tolerated) - test during the semester (min. 60 %) - oral presentation of seminar work Exam: End study evaluation of students is based on written test, cut off for pass is 60%. Presence on 2 lectures is evaluated with one point. The student can get points during the study period that will be added to the exam test if the minimal required value for passing (60%) is reached.
Scale of assessment (preliminary/final): 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: 304

A	ABS0	B	C	D	E	FX
65,13	0,0	20,72	8,55	2,96	0,99	1,64

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

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
J-S-VL-046 Neurology 2, J-S-VL-018 Microbiology 2, J-S-VL-041 Internal Medicine 3

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: 100%, B: 90%, C: 80%, D: 70%, E: 60%, Fx: 50% and less, minimum success rate 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:
Seminars
1. Introduction to infectious diseases - Basic concepts, material collection, reporting of infectious diseases, prevention and prophylaxis, etc.
2. Viral hepatitis syndrome - Viral hepatitis with a focus on differential diagnosis, epidemiology of exposed populations, prophylaxis and prevention. Treatment of chronic hepatitis B and C
3. Anti-infective therapy - Antibiotics, FK / FD properties, spectrum of action, indications, contraindications, dosage
4. Meningitis and meningoencephalitis - Possibilities and effectiveness of differential diagnosis of CNS infections. A more detailed analysis of group C meningococcal disease
5. Differential diagnosis of diarrhea - Occurrence. Dissemination conditions. The most probable pathogens and their brief characteristics. Possibilities and method of protection
6. Differential diagnosis of rashes - Classical rashes, new nosological units, pitfalls of differential diagnosis due to the increase in the incidence of rashes of non-infectious etiology
7. Toxoplasmosis - Epidemiology, clinical symptoms, interpretation of antibody levels, treatment of toxoplasmosis, pregnancy and toxoplasmosis, congenital toxoplasmosis
8. Sepsis - Criteria of sepsis, causes, pathogenesis. Diagnosis, differential diagnosis, treatment
9. Differential diagnosis of nodal syndrome, HIV - clinical symptoms, diagnosis, treatment
10. Selected parasitic infections - Clinical picture, diagnosis and treatment of selected parasitic infections

11. Nosocomial infections - epidemiology, clinical symptoms, diagnosis, treatment
12. Zoonoses - the most serious zoonoses, their etiology, occurrence, course, diagnosis and treatment. Recurring zoonoses and problems in their diagnosis
13. Infections caused by herpes viruses - Etiology. Clinical picture and its variations. Some serious complications and their diagnosis. Treatment.
14. Travel medicine - Possibilities of prevention of imported diseases
Lectures
1. Viral hepatitis syndrome
Recent knowledge about viral hepatitis A, B, C, D, E and G, its etiology, epidemiology, incidence, clinical picture, diagnosis and treatment.
2. HIV
Epidemiology and possibilities of transmission, clinical picture, diagnosis and treatment.
3. Intestinal infections
Bacterial, viral, parasitic and other etiology. Clinical picture, degree of dehydration, diagnosis.
4. Nosocomial infections
Causes of nosocomial infections, occurrence, the most important etiological factors, diagnosis, treatment (with regard to the resistance of microorganisms), prognosis and prevention.
5. Viral haemorrhagic fevers and other arboviruses
Ebola fever, Lassa, Marburg, Zika virus, WNV, Chickungunya, Papatači fever, Yellow fever, etiology, epidemiology, clinical picture, diagnosis, treatment and prevention options.
6. Travel medicine
Risks of infection of travelers, population migration and the possibility of introducing viral, bacterial and parasitic infections. Previous knowledge and our experience.

Recommended literature:
Jiří Beneš, Infekční lékařství, Galén, 2010, 651s.
Jiří Beneš, Antibiotika, Grada, 2018, 600s.
Havlík, J. a kol.: Infekční nemoci. Galén Praha, 2002, 186s.
Szilágyiová, M., Šimeková, K.: Infektológia pre prax. HERBA Bratislava, 2010, 292s.
Szilágyiová, M.: Importované parazitárne nákazy. BERISS Martin, 1999, 102s.

Languages necessary to complete the course:
slovenský

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
76,47	0,0	16,58	5,88	1,07	0,0	0,0

Lecturers: doc. MUDr. Katarína Šimeková, PhD.

Last change: 09.09.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-131/19	Innovative Drugs in Pharmacotherapy

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / 1 **per level/semester:** 7,5 / 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Course requirements:
Compulsory participation on the lectures, seminars and preparation of the final seminar work. 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): 50/50

Learning outcomes:
By completing the subject, the student will gain knowledge of the advances in pharmacotherapy achieved over the last decades, the mines in the treatment of serious diseases and the importance of investing in science and research. The student will obtain actual information about innovative therapies in selected medical disciplines, their benefits for the patient, the risk of adverse reactions, complications in the introduction into clinical practice.

Class syllabus:
- The characteristics and significance of innovation in medicine (focus on Pharmacotherapy)
- The research and development of new medicines with a focus on practical demonstrations of the importance of innovation for the patient, the doctor and society.
- The characteristics of the most important drug development processes: Pre-clinical Research (laboratory tests, animal tests, safety tests), new technologies.
-The characteristics of innovative pharmacological groups and medicines-biological drugs, antibodies, personalised treatment, stem cells, etc.
-The practical examples of innovations in selected medical disciplines: 1. Oncology 2. Haematology 3. Immunology 4. Dermatology 5. Cardiology 6. Vaccines 7. Gastroenterology 8. Neurology, 9. Diabetology

Recommended literature:
www.efpia.eu/topics/innovation, zákony 362/2011 a 363/2011 v platnom znení,
www.ema.europa.eu, www.nice.org.uk, www.sukl.sk

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 9

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

Lecturers: prof. RNDr. Soňa Fraňová, PhD.

Last change: 03.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
Attendance of all lectures and practical lessons. Successful accomplisment of the practical part of simulation sessions(patient choking by foreign body/object, orotracheal intubation, thoracic drainage, CVC and PICC insertion, Basic Cardio-pulmonary resuscitation) more then 60% successful rate.

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:
Fedor, M. a kol.: Intenzívna starostlivosť v pediatrii. Osveta, 2001, 435 s. Fedor, M. a kol.: Intenzivní péče v pediatrii. Osveta, 2006, 461 s. Novák,I. a kol.: Intenzivní péče v pediatrii European resuscitation council guidelines for resuscitation 2010. internetový zdroj Trenkler, Š.

a kol.: Kardiopulmonálna resuscitácia: podľa odporúčaní Európskej resuscitačnej rady 2010. Knihy Hanzluvka, 2011. 143 s. Nichols, D.G. a kol.: Roger´s textbook of Pediatric Intensive Care. Fourth edition. Lippincott Williams Wilkins, 2008. 1839 s. Gašparec, P. a kol.: Cievne prístupy.Osveta, 2009, 240 s.

Languages necessary to complete the course:
Slovak language

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. Slavomír Nosáľ, PhD.

Last change: 15.10.2019

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IK1/2-JVL-SS2/17	**Course title:** Internal Medicine
Number of credits: 7	
Educational level: I.II.	

Course requirements:

The conditions for successful passing the subject and obtaining credits are as follows:
student must complete the 100 % of pre-state practice.

Learning outcomes:

Completion of training the student gains general informations-knowledge and practical skills from the whole area of internal diseases. The aim is to graduate syllabus can cope with patients in various conditions, able to apply theoretical knowledge, to analyse down working diagnosis, to plan the examinations and to recommend appropriated treatment

Class syllabus:

State exam consists of practical exam (medical record) and oral exam (2 theoretical questions).
The practical part of state exam:
Student will select one of the particular department JFMCU (Department of internal medicine I., Department of internal medicine – gastroenterology, Department of occupational medicine and toxicology, Department of pneumology and phthisiology, Department of hematology and transfusiology).usually the day before the date of the theoretical part where the student will perform practical part according to instructions of the responsible teacher.
The practical part includes complete examination of the patient and processing the medical record (taking history, objective investigation, differential diagnosis, proposal examinations and treatment).
The theoretical part of state exam:
It will take place at the departments (Department of internal medicine I., Department of internal medicine – gastroenterology) before Examining board. Student will select by lot 2 theoretical questions from designated areas.
After answering all questions and considering the result of the practical exam, the final evaluation will be recommended to the chairman by the members of the Examining board.

State exam syllabus:

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.
Klener, P.:
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka, R. a kol.
Interna. Praha: Triton, 2010, 855.
Souček, M. a kol.

Vnitřní lékařství. Praha: Grada, 2011, 1808 s.
Marek, J. a kol.
Farmakoterapie vnitřních nemocí. Praha: Grada, 2010, 777 s.
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.
Cagáň, S. a kol.
Intenrá medicína pre stomatológov I. Bratislava: Univerzita Komenského, 1992.
Balažovjech, I. a kol.:
Interná medicína pre stomatológfov II. Bratislava: Univerzita Komenského, 1997.

Last change: 12.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-039/18	**Course title:** Internal Medicine (1)
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 2 / 2 **per level/semester:** 30 / 30 **Form of the course:** on-site learning	
Number of credits: 4	
Recommended semester: 7.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Internal Medicine Propedeutics 2	
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: 310

A	ABS0	B	C	D	E	FX
40,32	0,0	32,26	20,32	5,81	1,29	0,0

Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, prof. MUDr. Peter Galajda, CSc., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Robert Vyšehradský, PhD., prof. MUDr. Rudolf Hyrdel, CSc.

Last change: 14.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 30
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
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. : vnítřní lékařství. Praha: Galén, Karolinum, 2011. 1174 s.
ISBN 978-80-7262-705-9
Souček, M. a kol. : Vnítřní 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: 309

A	ABS0	B	C	D	E	FX
52,43	0,0	28,48	14,89	3,56	0,65	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.

Last change: 14.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Course requirements:
The conditions for successful passing the subject and obtaining credits are as follows:
Presence at 12 practical lessons (absence of two practical lessons must be justified).
Successful passing of 2 tests. Substitution of other missing practical lessons (according to the study order of JFMCU as well as to the Dean´s direction) is possible only in case of less than 20 % of missing practical lessons (2) with the approval of the head of department. In serious cases, the substitution of more than 20% of practical lessons can be proposed by the head of department and will be allowed after approval of the Dean.

Learning outcomes:
Completion of training the student gains general informations – knowledge and practical skills from nephrology, to get acquainted with the most important kidney diseases with their diagnosis, differential diagnosis including laboratory and special investigative techniques and therapy. Additional knowledge and practical skills the student acquires of the most common intoxications in internal medicine, including their correct diagnosis and subsequent therapeutic solutions, further issues of metabolic syndrome, calcium metabolism disorders, disturbances of intrinsic environment and the principles of antibiotic treatment and treatment by glucocorticoids.

Class syllabus:
Examinations of patients with acute and chronic glomerulonephritis.
Examinations of patients with tubulointerstitial nephritis.
Functional methods in nephrology.
Examinations of patients with chronic kidney disease. Uremic syndrome.
Organization of the hemodialysis unit, examination and care of patients in chronic dialysis programme. Peritoneal dialysis and other elimination methods,
Acute intoxications – diagnosis, differential diagnosis general principles of therapy.
Indications of acute hemodialysis and hemoperfusion.
Obesity, dyslipidemia and prediabetic states.
Metabolic syndrome and risk factors of cardiovascular diseases.
Disorders of calcium metabolism.
Osteoporosis. Examination of patients with bone diseases.
Principles of glucocorticoid therapy.

Dehydration. Principles of treatment.
Disturbances in intrinsic environment - metabolic and mineral dysbalance.
Examination of patients with septic states, differential diagnosis of febrile states.
Principles of antibiotic therapy.

Recommended literature:

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.
Klener, P.:
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka, R. a kol.
Interna. Praha: Triton, 2010, 855.
Odporúčaná literatúra:
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.
Klener, P.:
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka, R. a kol.
Interna. Praha: Triton, 2010, 855.
Souček, M. a kol.
Vnitřní lékařství. Praha: Grada, 2011, 1808 s.
Marek, J. a kol.
Farmakoterapie vnitřních nemocí. Prhja: Grada, 2010, 777 s.
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.
Longo, D. L. et al.
Harrison´s Principles of Internal medicine: Vol. I.
New York, McGraw-Hill, 2012, 1796 pp.
Longo, D. L. et al.
Harrison´s Principles of Internal medicine: Vol. II.
New York, McGraw-Hill, 2012, 1797-3610 pp.
Kumar, P. Clark, M.
Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012,1352 s.
Colledge, N. R. et al.
Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010, 1376 s.
McPhee, S. J., Hammer, G. D.
Pathophysiology of Disease And Introduction to Clinical Medicine.
Nex York: McGraw-Hill Medical, 2010, 737 s.

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
40,64	0,0	45,99	12,83	0,53	0,0	0,0

Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, doc. MUDr. Margita Belicová, PhD., prof. MUDr. Peter Galajda, CSc., doc. MUDr. Milan Ochodnický, CSc., doc. MUDr. Jurina Sadloňová, CSc.

Last change: 12.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 30
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
The conditions for successful passing the subject and obtaining credits are as follows:
Presence at 12 practical lessons (absence of two practical lessons must be justified).
Successful passing of 2 tests. Substitution of other missing practical lessons (according to the study order of JFMCU as well as to the Dean´s direction) is possible only in case of less than 20% of missing practical lessons (2) with the approval of the head of department. In serious cases, the substitution of more than 20% of practical lessons can be proposed by the head of department and will be allowed after approval of the Dean.
The final evaluation for internal medicine is based on the successful passing of 2 tests, presence at 12 practical lessons and oral examination which consists of 2 questions

Learning outcomes:
Completion of training the student gains general informations – knowledge and practical skills from area of the acute states in internal medicine in its individual branches such as cardiology, gastroenterology and hepatology, endocrinology, diabetology and disorders of metabolism and nutrition, hematology and of comatose states. Acquire the basic knowledge on the management of cancer patients.

Class syllabus:
Acute states in cardiology – organization of coronary unit.
Functional methods in cardiology – evaluation of findings.
Cardiogenic shock and principles of cardiopulmonary resuscitation.
Principles of pharmacotherapy in cardiology.
Video conference – cardiologic topic.
Comatose states.
Acute states in gastroenterology.
Bleeding from gastrointestinal tract .
Acute states in hematology – hemorrhagic states.
Acute states in endocrinology.
Acute states in diabetology – acute hyperglycemic and hypoglycemic states.
Acute states in nephrology – acute kidney injury.
Examination and care of oncologic patients.

Recommended literature:

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.
Klener, P.:
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka, R. a kol.
Interna. Praha: Triton, 2010, 855.
Souček, M. a kol.
Vnitřní lékařství. Praha: Grada, 2011, 1808 s.
Marek, J. a kol.
Odporúčaná literatúra:
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.
Klener, P.:
Vnitřní lékařství, Praha, Galén , Karolinum, 2011, 1 174 s.
Češka, R. a kol.
Interna. Praha: Triton, 2010, 855.
Souček, M. a kol.
Vnitřní lékařství. Praha: Grada, 2011, 1808 s.
Marek, J. a kol.
Farmakoterapie vnitřních nemocí. Prhja: Grada, 2010, 777 s.
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.
Longo, D. L. et al.
Harrison´s Principles of Internal medicine: Vol. I.
New York, McGraw-Hill, 2012, 1796 pp.
Longo, D. L. et al.
Harrison´s Principles of Internal medicine: Vol. II.
New York, McGraw-Hill, 2012, 1797-3610 pp.
Kumar, P. Clark, M.
Kumar and Clark´s Clinical Medicine. Philadelphia: Saunders Ltd., 2012, 1352 s.
Colledge, N. R. et al.
Davidson´s Principles and Practice of Medicine. Edinburgh: Churchill Livingstone, 2010, 1376 s.
McPhee, S. J., Hammer, G. D.
Pathophysiology of Disease And Introduction to Clinical Medicine.
Nex York: McGraw-Hill Medical, 2010, 737 s.

Languages necessary to complete the course:

Slovak lenguage.

Notes:

Past grade distribution
Total number of evaluated students: 178

A	ABS0	B	C	D	E	FX
48,88	0,0	37,64	10,11	1,12	2,25	0,0

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, doc. MUDr. Margita Belicová, PhD., prof. MUDr. Peter Galajda, CSc., doc. MUDr. Milan Ochodnický, CSc., doc. MUDr. Jurina Sadloňová, CSc.

Last change: 12.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.IK1/2-JVL-043/17	Internal Medicine (5)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 29,33 **per level/semester:** 439,95
Form of the course: on-site learning

Number of credits: 13

Recommended semester: 11., 12..

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: 475

A	ABS0	B	C	D	E	FX
78,95	0,0	14,32	5,26	0,42	1,05	0,0

Lecturers: prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, doc. MUDr. Margita Belicová, PhD., prof. MUDr. Peter Galajda, CSc., doc. MUDr. Milan Ochodnický, CSc., doc. MUDr. Jurina Sadloňová, CSc.

Last change: 12.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-037/17	**Course title:** Internal Medicine Propedeutics (1)
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 3 / 2 **per level/semester:** 45 / 30 **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Physiology 2	
Course requirements:	
Learning outcomes:	
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: 503

A	ABS0	B	C	D	E	FX
37,57	0,4	22,66	22,86	12,72	3,78	0,0

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, doc. MUDr. Margita Belicová, PhD., prof. MUDr. Peter Galajda, CSc., doc. MUDr. Milan Ochodnický, CSc., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Robert Vyšehradský, PhD.

Last change: 14.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 30
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 6.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

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: 502

A	ABS0	B	C	D	E	FX
35,46	0,0	48,21	14,14	1,79	0,4	0,0

Lecturers: prof. MUDr. Rudolf Hyrdel, CSc., prof. MUDr. Dušan Meško, PhD., prof. MUDr. Marián Mokáň, DrSc.,FRCP Edin, doc. MUDr. Margita Belicová, PhD., prof. MUDr. Peter Galajda, CSc., doc. MUDr. Milan Ochodnický, CSc., doc. MUDr. Jurina Sadloňová, CSc., doc. MUDr. Robert Vyšehradský, PhD., doc. MUDr. Oto Osina, PhD.

Last change: 14.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.BioMed/J-S-VL-128/19	Introduction to medical data analysis

Educational activities:
Type of activities: practicals
Number of hours:
per week: 1 **per level/semester:** 15
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.
Pekár S. Moderní analýza biologických dat. Scientia, 2009. ISBN 978-80-86960-44-9

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. Mgr. Marián Grendár, PhD.

Last change: 20.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:

Class syllabus:

Recommended literature:

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 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.

Last change: 06.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
Scale of assessment (preliminary/final): 0/100

Learning outcomes:
After completion of the subject the student understands legal aspects of health care providing. The student is able to apply basic information on current legislation in force in practice.

Class syllabus:
Obligations of a healthcare professional in the provision of healthcare (documentation, agreements, use of codes and stamps). Obligations of the healthcare provider. Control mechanisms - Health Care Surveillance Authority. Obligations of a health worker in relation to the Social Insurance Agency. Legal responsibility of healthcare providers.

Recommended literature:
Recommended:
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
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: 1

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., prof. MUDr. František Novomeský, PhD.

Last change: 24.08.2020
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-010/16	Medical Biochemistry (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 2 **per level/semester:** 45 / 30
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 3.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Medical chemistry 2

Course requirements:
The form of evaluation is only written. The 60 % of total score points is necessary.
Rating: A: 91-100%, B: 81-90%, C: 73-80%, D:66-72%, E:60-65%, Fx:59% and less.

Learning outcomes:
The student receives information such as biomolecules are synthesized, degraded and metabolized in the human body. The students deepen their knowledge about biochemical pathways in different organs under normal circumstances and they also learn how the metabolic processes work under pathological conditions at the molecular level, which is a prerequisite for correct diagnosis, treatment and individualized approach to the subject. The result of learning is understanding formation, causes and treatment of many diseases. The student can apply his theoretical knowledge and try to solve scenarios with diseases and its potential complications during preparing a seminar presentation as well as the practical examination of biological material.

Class syllabus:
The principles of oxidation and reduction in the body. Respiratory chain, ATP production, redox potential, electron transport in mitochondria. Intermedial metabolism, citric cycle, the role of acetyl CoA in metabolism. Glycolysis under aerobic and anaerobic conditions. Carbohydrate metabolism, carbohydrate digestion, absorption and transport, glycogenolysis, glycogenesis, principles and regulation. Gluconeogenesis, principles and regulation. Pentose phosphate pathway, pentoses and NADPH production. Fructose, galactose and glucuronic acid metabolism. Proteoglycans and glycoproteins. Lipid metabolism, lipid digestion and absorption, fatty acid synthesis and degradation, regulation. Metabolism of triacylglycerols, membrane lipids and phospholipids. Cholesterol metabolism, acetyl CoA as a steroid precursor, Bile acid metabolism and blood. Lipoprotein metabolism, lipoproteinemias. Ketone bodies synthesis and degradation.
Integration of carbohydrate and lipid metabolism, hormone regulation and clinical aspects in metabolic disorders.

Recommended literature:

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: 630

A	ABS0	B	C	D	E	FX
14,6	0,95	41,43	27,46	12,7	2,86	0,0

Lecturers: prof. MUDr. Dušan Dobrota, CSc., prof. RNDr. Peter Kaplán, CSc., doc. Mgr. Monika Kmeťová Sivoňová, PhD., prof. RNDr. Ján Lehotský, DrSc.

Last change: 16.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 60 / 60
Form of the course: on-site learning

Number of credits: 10

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Medical chemistry 2

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: 445

A	ABS0	B	C	D	E	FX
33,48	0,0	22,7	17,98	11,69	11,46	2,7

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.

Last change: 16.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

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

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 1.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
The aim of Medical Biology 1 is to give students a good knowledge in general cytology, cell physiology and cell pathology.

Course requirements:
Successful passing of two credit tests (not less than 60%), 100% attendance at practical classes
Scale of assessment (preliminary/final): Test, stand-alone work, preparation of presentation according to given topic.Mark, according to credit tests results.

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. Cell genome. Gene expression. Biological membranes – structure and function. Cell surfaces. Membrane transport. Cytoskeleton. Membrane organeles – nucleus, mitochondria, endoplasmic reticulum, Golgi complex, lysosomes, peroxisomes. Influence of external factors on cell. Cell division – mitosis. Meiosis, gametogenesis.

Recommended literature:
Povinná literatúra:
- 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
Doporučená literatúra:
- 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.
- Rosypal,S.: Úvod do molekulární biologie I. Brno, PFMU 1996. 304 s.
- Rosypal,S.: Úvod do molekulární biologie II. Brno, PFMU 1996. 231 s.

Languages necessary to complete the course:

Slovak

Notes:

Past grade distribution
Total number of evaluated students: 591

A	ABS0	B	C	D	E	FX
91,2	1,69	0,68	1,02	1,69	3,72	0,0

Lecturers: prof. MUDr. Martin Péč, PhD.

Last change: 18.01.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBl/J-S-VL-013/15	Medical Biology (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 2 **per level/semester:** 45 / 30
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, successful passing of oral exam.
Scale of assessment (preliminary/final): 50 / 50

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:
DNA replication. General laws of inheritance – Mendel´s laws, gene interactions, gene linkage. Genetics of blood groups. Mutations – gene, chromosomal, numerical. Population genetics. Pedigree analysis. Genetics of prokaryotes and viruses. Immunogenetics – HLA system. Cancer cell genetics – proto-oncogenes, oncogenes. Cytogenetic methods, methods of gene engineering.

Recommended literature:
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
- Sršeň,Š., Sršňová,K.: Základy klinickej genetiky a jej molekulárna podstata, Martin, Osveta 2000, 410s.
- Kapeller,K., Strakele, H.: Cytomorfológia, Osveta, Martin, 1999, 239 s.
- Rosypal,S.: Úvod do molekulární biologie I. Brno, PFMU 1996. 304 s.
- Rosypal,S.: Úvod do molekulární biologie II. Brno, PFMU 1996. 231 s.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 648

A	ABS0	B	C	D	E	FX
78,4	0,0	12,35	6,02	1,39	1,85	0,0

Lecturers: prof. MUDr. Martin Péč, PhD., prof. RNDr. Erika Halašová, PhD., prof. RNDr. Peter Kubatka, PhD.

Last change: 01.10.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 60 / 30
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 terapeutics methods by ionizing and nonionizing radiation in medicine and basic principles of protection counter ionizing radiation (limits, efective dose and personal dosimetry)

Course requirements:
Evaluation of students is based on oral exam, credit test and results from practicals and seminars. The final evaluation of students before oral exam is given by addition of their particular points. This will assign them into the rank: A ≥ 450, B ≥ 390, C ≥ 330, D ≥ 270, E ≥ 210, Fx < 210
Scale of assessment (preliminary/final): 50/50

Learning outcomes:
After competion 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. Detection of ionising radiation. Interaction of ionising radiation with living systems.
-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: 782

A	ABS0	B	C	D	E	FX
63,43	0,0	15,73	12,02	5,75	2,81	0,26

Lecturers: prof. MUDr. Ján Jakuš, DrSc., prof. RNDr. Ivan Poliaček, PhD., doc. RNDr. Michal Šimera, PhD.

Last change: 05.12.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚLBch/J-S-VL-008/17	Medical Chemistry (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1,5 **per level/semester:** 15 / 22,5
Form of the course: on-site learning

Number of credits: 4

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: 591

A	ABS0	B	C	D	E	FX
24,2	4,06	38,75	21,83	7,95	3,21	0,0

Lecturers: prof. MUDr. Dušan Dobrota, CSc., doc. Ing. Zuzana Tatarková, PhD., doc. RNDr. Jozef Hatok, PhD., doc. RNDr. Tatiana Matáková, PhD., doc. Mgr. Eva Babušíková, PhD., prof. RNDr. Peter Račay, PhD.

Last change: 16.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 22,5
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 2.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Lecture/Practical
Extent (in hours) – per week: 1.5/1
Method - attendance form
Credits: 4

Course requirements:
Evaluation of students is performed as a written and oral exam, minimal level to pass: 60 % for written part.
Evaluation:
A: 91–100 %,
B: 81–90 %,
C: 73–80 %,
D: 66–72 %,
E: 60–65 %,
FX: 59 % and less.
Scale of assessment (preliminary/final): 50/50

Learning outcomes:
After completion of the subject the student understands regulatory mechanisms of chemical processes on enzyme level and gains essential informations about properties of biological membranes, required for understanding the mechanisms of substance exchange, hormone action and cell signaling. Completion of the subject also contributes to knowledge of biochemical foundations of storage and transfer of genetic information and introduces to contemporary applications of genomic technology in clinical medicine. Student gains knowledge of molecular foundation of several diseases and understands the importance of chemistry in search of effective diagnostic and therapeutic procedures.

Class syllabus:
- Enzyme catalysis, regulations at the enzyme level – mechanisms of short-term and long-term control.
- Structure of biological membranes. Lipid and protein components of membranes, membrane fluidity. Synthetic membranes. Structural changes of membranes at pathological conditions.

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

Recommended literature:

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: 675

A	ABS0	B	C	D	E	FX
49,33	0,0	24,74	13,33	7,56	4,74	0,3

Lecturers: prof. MUDr. Dušan Dobrota, CSc., doc. Ing. Zuzana Tatarková, PhD., doc. Mgr. Eva Babušíková, PhD., prof. RNDr. Peter Račay, PhD., doc. RNDr. Jozef Hatok, PhD., doc. RNDr. Tatiana Matáková, PhD.

Last change: 30.09.2015

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚO/J-S-VL-031/17	Medical Ethics

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 15 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 5.

Educational level: I.II.

Prerequisites:

Course requirements:
Active attendance on seminars. Two tests written successfully (min. 60%). Evaluation of subject (results of Test I. + Test II. / 2) will be according: A / 1 = 91 – 100 %; B / 1,5 = 81 – 90 %; C / 2 = 73 – 80 %; D / 2,5 = 66 – 72 %; E / 3 = 60 – 65 %; Fx = less than 60 %

Learning outcomes:
Completing the course the student obtains information about the fundamental questions of medical ethics. The student will understand the principles of medical ethics and its importance in education, practice and research in the field of medicine. Student is able to apply the knowledge to case studies, can analyze and identify dilemmas.
The subject also contributes to the formation of moral attitude towards medicine, patients and to other health professions within the team cooperation.

Class syllabus:
The introduction to ethics. Ethics and morality. Moral reasoning. Ethics and Law.
Introduction to medical ethics. Basic terminology of Medical ethics. Principles and rules of medical ethics. Code of medical ethics.
Patients' rights. Doctor - patient relationship. Paternalism and partnership.
Informed consent and the right to refuse treatment. Ethical aspects of providing information about the patient's condition.
Ethics at the beginning of human life (birth control, sterilization, assisted reproduction, abortion).
Basics of thanatology. Dying with dignity. Problems of euthanasia and assisted suicide.
Ethical aspects of biomedical research and publications. Ethics committees.

Recommended literature:
Etické problémy v lékařství. Eds. D.C. Thomasma, T. Kushnerová. Praha : Mladá fronta, 2000. ISBN 80-204-0883-5, s. 213-223.
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. Prednesená 15. novembra 2000 v Bruseli. [on-line] [cit. 2007-02-5]. Dostupné na internete: http://www.zdravie.sk/sz/72/Prava-pacientov.html.
HAŠKOVCOVÁ, H. Lékařská etika. Praha : Galén, 2002. ISBN 80-7262-132-7..

HAŠKOVCOVÁ, H. Thanatológie. Praha : Galén, 2007. ISBN 978-80-7262-471-3.
Charta práv pacienta v Slovenskej republike. Dostupné na internete: www.health.gov.sk; www.pravapacientov.sk
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, s. 7- 21.
Príručka lekárskej etiky. Svetová asociácia lekárov. 2008. ISBN 978-80-8095-036-1.
PTÁČEK, R. BARTŮNĚK et al. Etika a komunikáce v medicíně. Praha : Grada, 2011. ISBN 978-80-247-3976-2.
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:
English language

Notes:

Past grade distribution
Total number of evaluated students: 503

A	ABS0	B	C	D	E	FX
85,69	0,2	10,14	3,38	0,4	0,2	0,0

Lecturers: doc. Mgr. Juraj Čáp, PhD.

Last change: 26.10.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.PK/J-S-VL-032/17	**Course title:** Medical Psychology and Basics of Communication
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 1 / 1 **per level/semester:** 15 / 15 **Form of the course:** on-site learning	
Number of credits: 2	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: 0	
Course requirements: active participation in practicals - permanent study check (control question), favourable results during running controls, written test, oral exam – 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): 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:

Žucha I., Čaplová T. a kol. Lekárska psychológia. Univerzita Komenského, Bratislava 2008, 208 s.
Morovicsová E. a kol. Komunikácia v medicíne. Univerzita Komenského, Bratislava 2011,212 s.
Raudenská J., Javůrková A. Lékařská psychologie ve zdravotnictví. Grada, Praha 2011, 304 s.
Beran J. a kol. Lékařská psychologie v praxi. Grada, Praha 2010, 144 s.
Linhartová V. Praktická komunikace v medicíně. Grada, Praha 2007, 152 s.

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 503

A	ABS0	B	C	D	E	FX
98,61	0,0	1,19	0,2	0,0	0,0	0,0

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD.

Last change: 04.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚVZ/J-S-VL-094/19	**Course title:** Medicine of Catastrophies
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 1 / 1 **per level/semester:** 15 / 15 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 10.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Public Health 1, Infectology	
Course requirements: 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. 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 aspect of disaster medicine. War medicine and terrorism. Nuclear, industrial, natural and humanitarian disasters.	
Recommended literature: Obligatory literature: KLEMENT CYRIL a kol: Mimoriadne udalosti vo verejnom zdravotníctve. Banská Bystrica: PRO, 2011, 663 s., ISBN: 978-80-89057-29-0 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 Recommended:	

PRYMULA R. a kol.: Biologický a chemický terorizmus. Praha: Grada, 2002. 152 s.
http://www.who.int/topics/
www.ecohealth101.org
http://www.ecdc.europa.eu

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

Notes:

Past grade distribution
Total number of evaluated students: 13

A	ABS0	B	C	D	E	FX
76,92	0,0	0,0	23,08	0,0	0,0	0,0

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

Last change: 24.08.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 30
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Medical biology 2

Course requirements:
- it is obligatory to be present at practicals (1 absence is tolerated)
- test during the semester (min. 60 %)
- oral presentation of seminar work

End study evaluation of students is based on written test, cut off for pass is 60%.
Scale of assessment (preliminary/final): Scale of assessment (preliminary/final): 0% / 100%

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: 535

A	ABS0	B	C	D	E	FX
54,58	0,75	22,06	13,64	6,17	2,8	0,0

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

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 45
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 5.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
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 or oral exam. Retake: oral exam only
Written exam test - Presence on 2 lectures is evaluated with one point. The student can get points during the study period that will be added to the exam test if the minimal required value for passing (60%) is reached. Student, that had 70 % points in the test during the study period can apply for written exam test in the preterm.
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): 0%/100%

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: 503

A	ABS0	B	C	D	E	FX
21,47	0,0	31,41	20,28	15,71	11,13	0,0

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

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚMBl/J-S-VL-090/17	Molecular Biology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 15 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 6.

Educational level: I.II.

Prerequisites:

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, class-in-presentation, two tests
Scale of assessment (preliminary/final): Sum of preliminary results determines the final grade.

Learning outcomes:
The graduate should acquire basic overview about medical molecular biology and molecular genetics and knowledge concerning application of the methods of molecular biology in medicine general, understand the basic principles of molecular diagnostics, precision personalized medicine and interpretation of the results of the molecular-genetic examinations.

Class syllabus:
Organization of the human genome, human genome sequencing projects, basic free accessible databases in medicine. Regulation of human gene expression and application of this knowledge in medicine. Instability of the human genome, malfunctions of DNA repair and cancerogenesis. Methods of molecular biology in medicine and diagnostics – PCR, real-time PCR, droplet digital PCR, fragment analysis, detection of short tandem repeats for human identification, DNA sequencing, next-generation sequencing (NGS), whole exome sequencing, whole genome sequencing. Mutation classification according to sequence change and the effect, nomenclature for describing mutations, gain of function mutations, loss of function mutations. Molecular diagnostics of monogenic disorders, usage of free accessible internet resources and databases (OMIM, ClinVAr, dbSNP). The evolution of cancer, multistep model carcinogenesis on the example of colorectal, inheritance of cancer, cancer critical genes, driver and passenger mutations. 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. Genetically heterogenic diseases – molecular diagnostics based on NGS, complexity and limits of the result interpretation, clinical exome sequencing. 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 – principles

of electrophoretic separation of DNA, polymerase chain reaction (PCR), real-time PCR whole-genome sequencing for non-invasive prenatal testing. PCR protocol, PCR preparation. SNP and point mutation analysis using PCR, result interpretation from agarose electrophoresis, comparison with systems TaqMan and digital PCR. DNA sequencing according Sanger, using Chromas and BLAST, description and interpretation 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: 312

A	ABS0	B	C	D	E	FX
94,55	0,0	5,13	0,32	0,0	0,0	0,0

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

Last change: 15.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
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:

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 0

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

Lecturers: prof. MUDr. Mirko Zibolen, CSc., MUDr. Tomáš Jurko, PhD.

Last change: 24.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
Final fulfillment of the course completion conditions in the form of continuous evaluation
Scale of assessment (preliminary/final): continuous

Learning outcomes:
At the end of the course students should be able to obtain more detailed information about physiological and pathological conditions in neonatology. By solving case reports of patients, they will better understand the issue and also the diversity of clinical manifestations of individual diseases in the neonatal period. The graduate of the course is able to describe the most common pathological situations in neonatology and propose appropriate treatment.

Class syllabus:
care of physiological newborn, newborn with extremely low birth weight, perinatal asphyxia, newborn resuscitation, hypoxic-ischemic encephalopathy, periventricular leukomalacia, intracranial haemorrhage in neonatal period, respiratory diseases in neonatal neonatal nurses, neonatal neonatal nursing, neonatal neonatal disease , case reports

Recommended literature:

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 113

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., MUDr. Tomáš Jurko, PhD.

Last change: 24.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NlK/J-S-VL-045/18	Neurology (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 1 **per level/semester:** 30 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Course requirements:
Attendance at least 6 practicals. Evaluation: A,B,C,D,E. Classification will be based on continual evaluation of knowledges. Commitment of documentation and advocacy of examined patient.

Learning outcomes:
After completion of the subject the student understands basic information about Neurology, about basic examination principles and the ways of the patients examination. Student is able to apply knowledge from the neuroanatomy and physiology of the peripheral and central nervous system. Student will be informed about the way of examination of the particular neurology systems. Student has overview, basic knowledge and principles of the correct indication of the ancillary diagnostic methods in neurology. Student is able to do individual patient examination, basic analysis of the pathological findings, correct syndrome identification and supposed pathology localization. Completion of the subject forms general basic clinical skills.

Class syllabus:
Introduction to neurology. Neurological examination – personal history, status presens generalis and status presens specialis neurologicus.
Cranial nerves. Roots and nerves of the spinal cord. Structure and function of the spinal cord.
Sensory system.
Central and peripheral type of the palsy.
Central control of the movement.
Cortical syndromes. Symbolic functions.
Limbic system and behavioral neurology. Memory.
Vegetative nervous system.
Extrapyramidal syndromes. Cerebellar and vestibular syndromes.
Introduction to the special neurology.

Recommended literature:
BARTKO, D., DROBNÝ M. Neurológia. Učebnica pre lekárske fakulty. Martin, Osveta 1991. 709 s.
VARSIK, P., ČERNÁČEK, J. a kol. Neurológia. I. Základy vyšetrovania. Bratislava: Lufema, 1997. 647 s.

VARSIK, P., ČERNÁČEK, J. a kol. Neurológia. II. Patogenéza a klinika nervových chorôb. Bratislava:
Lufema, 1999. 650 s.
DROBNÝ, M. Lectures of Neurology. Martin: Jessenius Faculty of Medicine, 1996. 293 s.
MUMENTHALER, M., MATTLE, H. Neurologie. Praha: Grada, 2001. 649 s.
AMBLER Z. Neurologie pro studenty lékařské fakulty. Praha. Karolinum 2000. 399 s.
VARSIK, P., a kol. Repetitórium špeciálnej neurológie. Bratislava: S+S, 2003. 376 s.
AMBLER, Z. a kol. Klinická neurologie: Část obecná. Praha: Triton, 2008. 976 s.
AMBLER, Z. a kol. Klinická neurologie: Část speciální I. Praha: Triton, 2010. 707 s.
AMBLER, Z. a kol. Klinická neurologie: Část speciální II. Praha: Triton, 2010.
AMBLER, Z. Základy neurologie. Praha: Galén, 2011.351 s.
NEVŠÍMALOVÁ, S., Neurologie. Praha: Galén, 2002. 367 s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 310

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

Lecturers: prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Ema Kantorová, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, doc. MUDr. Štefan Sivák, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Michal Drobný, DrSc.

Last change: 11.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NlK/J-S-VL-046/18	Neurology (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 1 **per level/semester:** 30 / 15
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Course requirements:
Commitment of documentation and advocacy of examined patient. Passing through examination test – minimum 70%. Oral examination. Evaluation: A,B,C,D,E,Fx.

Learning outcomes:
After completion of the subject the student understands epidemiology, etiology, pathophysiology, clinical picture, diagnosis, differential diagnosis and treatment of the most common neurological disorders.
Student is able to apply all knowledge learned at Neurology (1). Very important is practical application of the knowledge during examination of the patient or during casuistic model evaluation.
Student is able to manage the most frequent emergency situations in neurology.

Class syllabus:
Stroke. Subarachnoid hemorhage. Trauma of the brain, spinal cord, and periferal nerves. Headache. Disorders of the spinal cord. Coma. Differential diagnosis of the syndrome of the intracranial hypertension. Hydrocephalus. Tumors of the CNS. Infections of the CNS. Human and animal prion diseases. Multiple sclerosis. Alzheimer's dementia and other dementias. Parkinson's disease and other Movement disorders. Epilepsy. Differential diagnosis of the unconsciousness. Sleep disorders. Developmental disorders of the nervous system. Neuromuscular disorders. Selected hereditary disorders. Functional stereotactic neurosurgery. Selected interventions in invasive radiology.

Recommended literature:
BARTKO, D., DROBNÝ M. Neurológia. Učebnica pre lekárske fakulty. Martin, Osveta 1991. 709 s.
VARSIK, P., ČERNÁČEK, J. a kol. Neurológia. I. Základy vyšetrovania. Bratislava: Lufema, 1997. 647 s.
VARSIK, P., ČERNÁČEK, J. a kol. Neurológia. II. Patogenéza a klinika nervových chorôb. Bratislava:
Lufema, 1999. 650 s.
DROBNÝ, M. Lectures of Neurology. Martin: Jessenius Faculty of Medicine, 1996. 293 s.
MUMENTHALER, M., MATTLE, H. Neurologie. Praha: Grada, 2001. 649 s.
AMBLER Z. Neurologie pro studenty lékařské fakulty. Praha. Karolinum 2000. 399 s.
VARSIK, P., a kol. Repetitórium špeciálnej neurológie. Bratislava: S+S, 2003. 376 s.

AMBLER, Z. a kol. Klinická neurologie: Část obecná. Praha: Triton, 2008. 976 s.
AMBLER, Z. a kol. Klinická neurologie: Část speciální I. Praha: Triton, 2010. 707 s.
AMBLER, Z. a kol. Klinická neurologie: Část speciální II. Praha: Triton, 2010.
AMBLER,Z. Základy neurologie. praha: Galén, 2011. 351 s.
NEVŠÍMALOVÁ, S., Neurologie. Praha: Galén, 2002. 367 s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 201

A	ABS0	B	C	D	E	FX
62,69	0,0	14,43	8,46	4,98	4,48	4,98

Lecturers: prof. MUDr. Egon Kurča, PhD., FESO, doc. MUDr. Ema Kantorová, PhD., doc. MUDr. Vladimír Nosáľ, PhD., FESO, doc. MUDr. Štefan Sivák, PhD., MUDr. Monika Turčanová Koprušáková, PhD., prof. MUDr. Michal Drobný, DrSc.

Last change: 11.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NchK/J-S-VL-119/19	Neurosurgery (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / ,5 **per level/semester:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgery 3, Neurology 2

Course requirements:
The condition for the obtaining the credits from neurosurgery is the 2/3 (66%) attendance of the lectures and practical seminars at Clinic of Neurosurgery. Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less

Learning outcomes:
Student knows degenerative diseases of the spine, has an overview of diagnostic and treatment methods for this condition. Know the spine and spinal cord injuries, tumors of the spine and spinal cord and peripheral nerve tumors. Understand the issue of craniocerebral injury and peripheral nerve injury.

Class syllabus:
Degenerative disease of the spine. The lecture and practical seminars deal with the pathophysiology and biomechanics of the spine affected by degenerative process. Part of the lecture is an overview of the diagnostic methods of their use in neurosurgery and spinal surgical procedures overview. Spine and spinal cord injuries. The lecture and seminars provide students an overview of the mechanics, pathophysiology and classification of spinal injuries and spinal cord. The clinical features, diagnosis and treatment of spinal cord injury and an overview of basic surgical procedures are presented. Tumors of the spine and spinal cord. Peripheral nerve injury, entrapment syndromes, peripheral nerve tumors. The lectures and seminars deal with tumors of the spine and spinal cord and peripheral nerve damage issues from the perspective of a neurosurgeon with an overview of neurosurgical surgery. Craniocerebral injury. The aim of the lecture and seminars is to provide students an overview of the management of brain injury, based on understanding the pathophysiology and biomechanics of intracranial space and brain injury. The lecture deals with the classification of head injury, intracranial hypertension, diagnosis and treatment of brain injuries. Part of the lecture is an overview of basic neurosurgical procedures in patients with head injury.

Recommended literature:
Mraček, Z. Kraniocerebrální poranění. Praha: Avicenum, l988. 304 s. Náhlovský, J. et al. Neurochirurgie. Praha: Galén, 2006. 606 s. ISBN 80-7262-319-2 Zvěřina, E. Poranění

periferních nervů. Praha: Avicenum, l989. 275 s. Kalina, M. Akutní neurologie: Intenzivní péče v neurologii. Praha: Triton, 2000. 197 s. ISBN 80-7254-100-5 Malý, M. a kol. Poranenie miechy a rehabilitácia. Bratislava: Bonus Real, 1999. 577 s. ISBN 80-968205-6-7 Smrčka, M. a kol. Poranení mozku. Praha: Grada, 2001. 272 s. ISBN 80-7169-820-2 Greenberg, Mark S. Handbook of Neurosurgery. New York: Thieme Medical Publishers,7th edition, 2010, s. 1338, ISBN: 978-1-60406-326-4

Languages necessary to complete the course:

Notes:

Past grade distribution

Total number of evaluated students: 184

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

Lecturers: doc. MUDr. Branislav Kolarovszki, PhD., MUDr. Romana Richterová, PhD.

Last change: 19.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.NchK/J-S-VL-120/19	Neurosurgery (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / ,5 **per level/semester:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
neurosurgery 1

Course requirements:
The condition for the obtaining the credits from neurosurgery is the 2/3 (66%) attendance of the lectures and practical seminars at Clinic of Neurosurgery. Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less

Learning outcomes:
The graduate is familiar with the problematic of brain and skull tumors, knows the diagnostic anf surgical methods of treatment of brain tumors. The student knows the infectious diseases of brain and skull. He knows the basic principles of cerebrovascular and pediatric neurosurgery.

Class syllabus:
Brain and skull tumors – classification, clinical picture, diagnostics and treatment, peroperative neuromonitoring and neuroimaging. Infectious diseases of brain and skull. The review of surgical procedures. Cerebrovascular and pediatric neurosurgery. Spontaneous subarachnoid bleeding, intracerebral haemorrhage, intracranial aneurysms and arteriovenous malformations. The review of microsurgical and endovascular methods. The management of congenital anomalies of brain, spine and spinal cord.

Recommended literature:
Mraček, Z. Kraniocerebrální poranění. Praha: Avicenum, l988. 304 s. Náhlovský, J. et al. Neurochirurgie. Praha: Galén, 2006. 606 s. ISBN 80-7262-319-2 Kalina, M. Akutní neurologie: Intenzivní péče v neurologii. Praha: Triton, 2000. 197 s. ISBN 80-7254-100-5 Malý, M. a kol. Poranenie miechy a rehabilitácia. Bratislava: Bonus Real, 1999. 577 s. ISBN 80-968205-6-7 Smrčka, M. a kol. Poranení mozku. Praha: Grada, 2001. 272 s. ISBN 80-7169-820-2 Greenberg, Mark S. Handbook of Neurosurgery. New York: Thieme Medical Publishers,7th edition, 2010, s. 1338, ISBN: 978-1-60406-326-4

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 83

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

Lecturers: doc. MUDr. Branislav Kolarovszki, PhD., MUDr. Romana Richterová, PhD.

Last change: 19.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KNM/J-S-VL-123/18	Nuclear Medicine

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / ,5 **per level/semester:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

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: 309						
A	ABS0	B	C	D	E	FX
26,86	0,0	38,83	22,65	9,06	2,59	0,0
Lecturers: MUDr. Hubert Poláček, PhD., doc. MUDr. Kamil Zeleňák, PhD.						
Last change: 03.02.2019						
Approved by:						

COURSE DESCRIPTION

University: Comenius University in 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:** 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
internal medicine 3

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

Learning outcomes:

Class syllabus:
1. Professional diseases - definition, overview, list of occupational diseases. System for the assessment, reporting and compensation of occupational diseases. The job description of department or clinic of occupational medicine, the role of occupational health service in the system of care for the health of employees. Preventive medical examinations.
Occupational diseases of the respiratory system - Pneumoconiosis.
2. Overview of diseases after exposure to physical factors of the working environment - occupational diseases from long-term, excessive and repetitive load of limbs, diseases form vibrations.
Health damage from over noise and ionizing radiation. Electromagnetic fields in daily life, application of mobile telecommunication means, effects on human organism.
3. Occupational diseases after exposure to toxic metals and organic solvents. Chemical damage in accidents and terrorist use.
4. Occupational cancers. Professional allergic diseases - rhinitis, asthma bronchiale, hypersensitive pneumonitis.
5. Examination, diagnosis and treatment of patients with professional health damage.

Recommended literature:
1. Buchancová a kol. Pracovné lekárstvo a toxikológia. Martin, Osveta, 2003, 1133s.
2. LaDou, J.: Current Occupational and Environmental Medicine. Mc Grax-Hill Education Europe, 2007, 846 s.
3. Krutý, F., Buchancová, J.: Pracovné lekárstvo a toxikológia. Environmentálne pľúcne choroby. Poškodenia zdravia z fyzikálnych faktorov. V: Ďuriš, I., s kol.: Princípy internej medicíny SAP Bratislava, 2001, 2951 s.

4. Osina, O., Sadloňová, J.: Toxikológia - vybrané kapitoly. Vysokoškolské skriptá, 2016
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: 187

A	ABS0	B	C	D	E	FX
87,17	0,0	11,23	1,6	0,0	0,0	0,0

Lecturers: doc. MUDr. Oto Osina, PhD.

Last change: 24.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚVZ/J-S-VL-108/19	Occupational-Health Service

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / ,5 **per level/semester:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Public Health 1

Course requirements:
ppt 1 (max. 50 p.), ppt 2 (max. 50 p.)
Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less
Scale of assessment (preliminary/final): 0/100

Learning outcomes:
After completion of the subject the student understands problems of supervision of occupational health services (OHS) on working conditions, methods mapping and assessing the health risks caused by different factors of the working environment, basic procedures of supervision of OHS on health of workers. He/she is able to identify various types of medical preventive checkups to evaluate correctly the health ability in various working activities. He/she understands basic principles of organization of the first aid in industrial accidents.

Class syllabus:
Brief historical insight in health related to occupation. Basic roles of OHS. Composition and qualification of a OHS team. Organization of activities of OHS, legislation in the Slovak Republic. Preliminary audit, assessment of factors of working environment and level of working conditions with focus on identification of risks, monitoring of exposure of the employees to factors of work and working conditions harmful to health. Summary of qualitative-quantitative assessment of health risks. Monitoring and assessment of health condition of employees in relation to occupation. Opinions on health ability for work. Contents of preventive occupational medical checkups. Organization of the first aid in factories. Providing counselling for employees and employers. Activities of OHS in elaboration of programs of protection and support of health of the employees.

Recommended literature:

Languages necessary to complete the course:

Notes:
slovak, english

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, prof. MUDr. Janka Buchancová, CSc.

Last change: 27.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.OK/J-S-VL-068/19	**Course title:** Ophthalmology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 1 **per level/semester:** 45 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Anatomy 3, 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 threshold of success: 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:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
81,28	0,0	14,97	2,14	1,6	0,0	0,0

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

Last change: 15.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.OTK/J-S-VL-070/19	Ortopedics

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1,5 / 1 **per level/semester:** 22,5 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Course requirements:
Evaluation takes the form of graded credit. Requires 100% participation in practicals.

Learning outcomes:
Students gain an overview of diseases and injuries of the musculoskeletal system. Become familiar with developmental and acquired diseases, specificities of developmental diseases, their diagnosis and treatment options, focusing on prevention and screening examinations, become familiar with terapeutical options of skeletal trauma, can separately consider the possible therapeutic approaches based on the interpretation of X-ray findings. Acquire a 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, therapeutic procedures and principles of treatment. - Diagnosis and treatment of tumors of bones, 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 disease - 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 Hudec,

I.: Úrazová chirurgia, Osveta, Martin, 1986 Typovský, K. a kol.: Traumatológie pohybového ústroji, Avicenum, Praha, 1981

Languages necessary to complete the course:
Slovak Language

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
94,12	0,0	5,88	0,0	0,0	0,0	0,0

Lecturers: MUDr. Libor Nečas, PhD., MUDr. Marek Rovňák

Last change: 19.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KORL/J-S-VL-069/19	**Course title:** Otorhinolaryngology

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 1 **per level/semester:** 45 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Course requirements:
The final exam - condition - attended practical lessons on 100%. At least it may be excused absence to 20% practical training. Compensation of missed teaching will be carried out usually in written form, during credit week. - the term by AIS2 system - practical question + demonstration - test - the exam students will complete 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

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 186

A	ABS0	B	C	D	E	FX
57,53	0,0	26,88	9,68	1,61	4,3	0,0

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

Last change: 15.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 60 / 45
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 5.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Anatomy 3, Histology and Embryology 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:

• Underwood J.C.E.: General and systematic pathology. Edinbourgh, Churchill Livingstone 2000
• Rubin E., Farber J.L.: Pathology. J.B.Lippincott, Philadelphia 1994
• Harish Mohan: Textbook of Pathology, seventh edition, ISBN 9789351523697, 2015
• Vinary Kumar, M.D., Abul K. Abbas, Jon C. Aster: Rubin´s Basic Pathology, ISBN 978-0-8089-2432-6
• Milikowski C., Berman I.: Color atlas of basic histopathology. Appleton and Lange, Stamford 1997

• Damjanov I., Linder J.: Pathology. A Color Atlas. Mosby, 2000
• Cotran R. S., Robbins S.L., Kumar V.: Basic Pathology. Philadelphia: W.B. Saunders, 2002, ISBN
0-7216- 5122-4
• Mačák J.: General Pathology. Masaryk University 2008, ISBN 978-80-210-4549-1

Languages necessary to complete the course:
In Slovak

Notes:

Past grade distribution
Total number of evaluated students: 502

A	ABS0	B	C	D	E	FX
11,75	0,2	26,29	30,88	24,1	6,77	0,0

Lecturers: prof. MUDr. Lukáš Plank, CSc., prof. MUDr. Katarína Adamicová, PhD., MUDr. Tomáš Balhárek, PhD.

Last change: 30.11.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPA/J-S-VL-034/17	**Course title:** Pathological Anatomy (2)
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 5 / 4 **per level/semester:** 75 / 60 **Form of the course:** on-site learning	
Number of credits: 10	
Recommended semester: 6.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: 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: 504

A	ABS0	B	C	D	E	FX
35,71	0,0	39,48	14,68	3,57	2,38	4,17

Lecturers: prof. MUDr. Lukáš Plank, CSc., MUDr. Tomáš Balhárek, PhD., prof. MUDr. Katarína Adamicová, PhD.

Last change: 30.11.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
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.
Masopust J, Prusa R.: Patobiochemie metabolických dráh, Univerzita Karlova, 200, 208s.
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: 15

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: 14.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚPF/J-S-VL-035/17	**Course title:** Pathological Physiology (1)
Educational activities: **Type of activities:** practicals / lecture **Number of hours:** **per week:** 3 / 2 **per level/semester:** 45 / 30 **Form of the course:** on-site learning	
Number of credits: 5	
Recommended semester: 5.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: Physiology 2	
Course requirements: Assessment of the students knowledge and skills will be done by writen test on computer. Minimal percentage necessary for passing the test with sucess is 74. Assessment scale is: A:100 – 96%, B: 95 – 90%, C: 89 – 85%, D: 84 – 79%, E: 78 – 74%, FX: 73% and less	
Learning outcomes: After completion of the subject student understand mechanisms involved in induction, development and finishing pathological processes related to disturbances of homeostasis, changes of body reactivity, diabetes mellitus, and cerebral ischemia. He/she will be able to solve independently pathomechanisms leading to development the most frequent symptoms and signs present in disturbances of homeostasis by using casuistics/case reports of real/virtual patients. He/she will be able independently to evaluate physiologic ECG record. Knowledge obtained at practical sessions and seminars, and by individual study will be able to apply in analysis of health problems of patients, by name with disturbances of homeostasis, immunity, thermoregulation, SIRS, pain, circulatory shock, and disturbances o consciousness. He /she are able to identify essential and most important pathomechanisms above mentioned diseased processes.	
Class syllabus: - Introduction to study of pathophysiology, health and disease, pathophysiology of ageing, and terminal states - General etiopathogenesis of diseases, noxae, consequences of human being exposure to polutants - role of changed body reactivity in pathogenesis of diseses, stress – its role in development pathological processes and diseses, roles of changed imunity in pathogenesis of diseases - Pathophxsiology of thermoregulation – fever, hyperthermia, hypothermia - Disturbances of homeostasis – changed volum and content of body fluids, changed acid-base balance - Pathophysiology of pain – pathomechanisms involved in development pathologic forms of pain - Pathophysiology of metabolic processes – changes in lipids, proteins, aminoacids, purins and carbohydrates metabolism; pathophysiology of nourishment	

- Pathophysiology of diabetes mellitus – pathomechanisms involved in disease induction and development, main symptoms and signs, acute and chronic complications
- Systemic inflammatory response syndrome (SIRS)
- Pathophysiology of circulatory shock
- Pathophysiology of brain ischemia
- Ischemic heart diseases (IHDs)- mechanisms responsible for diseases induction, pathomechanisms involved in development of electrical and mechanical disturbances of heart funsction, atherosclerosis as one of the most important mechanism of IHD development, forms of IHD, positive and negative consequence of reperfusion of ischemic myocardium
- Pathophysiology of heart failure (HF)– mechanisms involved in induction and development of HF, systolic and diastolic forms of HF, differences in mechanisms involved in acute and chronic heart failure, right and left sided HF – mechanisms involved in symptoms and signs development
- Disturbances in blood pressure control – systemic arterial hypertension, mechanisms involved in primary and secondary arterial hypertension development, complications of arterial hypertension-consequences for functions of different organs and systems
- Essentials in evaluation of ECG record

Recommended literature:

Nečas, E. a kol.: Obecná patologická fyziologie. Praha: Karolinum, 2002. 377 s.
Nečas, E. a kol.: Patologická fyziologie orgánových systémů I a II. Praha: Karolinum, 2006. 760 s.
Hulín, I. a kol.: Patofyziológia. Bratislava: SAP, 2002. 1397 s.
Bada, V.: Praktická príručka elektrokardiografie. Bratislava: UK, 1991. 127 s.

Languages necessary to complete the course:
slovak language

Notes:

Past grade distribution
Total number of evaluated students: 503

A	ABS0	B	C	D	E	FX
10,54	0,2	22,86	44,93	17,1	4,17	0,2

Lecturers: prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD., prof. MUDr. Jana Plevková, PhD., MUDr. Tomáš Buday, PhD.

Last change: 30.11.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 45
Form of the course: on-site learning

Number of credits: 7

Recommended semester: 6.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Pathophysiology 1

Course requirements:
To pass all seminars and practical sessions. State days off and rectors/deans days off are taken as student pass the seminars /practical sesions planned for these days. Student should also pass tests No 1 and No 2. Student should show ability to do pathogenetic analysis of ECG record, and should present semestral work. Student should to pass final exam.

Learning outcomes:
After completion the second part of Pathological Physiology student will understand mechanisms responsible for induction, development and finishing pathological processes related to disturbances of coronary blood flow, blood circulation in lower extremities, pulmonary and visceral circulation, obstructive pulmonary diseases and respiratory insufficiency, diseases of kidney leading to renal failure, essential hepatal, endocrine, gastrointestinal, and hematopoietic systems disorders. He/she will be able independently solve ECG records with most important disorders of electrical function of the heart-by name dysrhythmias, myocardial ischemia and ventricular and atrial hypertrophy, will be able to solve essential pathological forms of spirographic records. Student will be able to apply theoretical knowledge obtained at seminars and lectures on pathophysiology into pathogenesis of diseases at clinical departments. He/she will be able to to analyse pathomechanisms involved in development of heart failure, disturbances of external ventilation, development of hypoxia and ischemia, and glomerular and tubular dysfunctions. Student is also able to analyse main causes and mechanisms responsible for development symptoms and signs of cardiovascular, respiratory and renal diseases. Graduate from Pathophysiology 2 is able to identify essential and most important pathomechanisms above mentioned pathological processes. He/she are able to prepare semestral report in which will show ability to identify pathomechanisms of symptoms and signs in real patient.

Class syllabus:
Brief sylabus of lectures:
- Pathophysiology of arterial and venous circulation in lower extremities (LE) – pathogenetic processes involved in disturbances development; disturbances of arterial circulation – ischemic changes and their manifestations and consequences, changes of venous circulations - their

manifestations and consequences, chronic venous insufficiency in LE – mechanisms involved in its development and consequences
- Pathophysiology of pulmonary and visceral circulation – pathogenesis of pulmonary hypertension, pulmonary thromboembolic disease, intrapulmonary shunts; Pathogenesis of changes in visceral circulation, their consequences for organism
- Pathomechanisms of the most frequent symptom and signs of cardiovascular diseases,
- Disturbancesof external ventilation – pathomechanism and causes involved in development disturbances of ventilation, distribution, diffusion, perfusion and in ventilation perfusion ratio – their consequences for gases exchange in the lung and for changes of blood gases; Pathophysiology of obstructive lung diseases –bronchial asthma, chronic obstructive lung diseases (COPD)-mechanisms responsible for disturbances of gases exchange, main symptoms and signs
- Hypoxie – causes and mechanisms leading to hypoxia, types of hypoxie, compensatory mechanisms developed for compensation of hypoxie, consequences of hypoxie for function of organs and systems of the body; Hyperoxia – causes involved in its development, consequences for tissue and organs function
- Respiratory insufficiency (RINS) – causes and mechanisms leading to RINS, types of RINS, symptoms and signs, consequences for organs and systems of the organism
- Main types of respiratory system dysfunctions- their manifestations by symptoms and signs
- Pathophysiology of renal glomerular and tubular functions – main causes, mechanisms, main consequences of glomerular and tubular dysfunctions for the organism; Nephrotic syndrome
- Pathophysiology of acute and chronic renal insufficiency/failure – causes of the disorders, consequences – chnges of homeostasis, uremic syndrome, multiorgan dysfunctions,mechanisms involved in development main symptoms and signs of renal insufficiency
- Pathophysiology of liver – causes and mechanisms leading to development liver insufficiency/ failure, metabolic, circulatory, hormonal, neural and other consequences; Portal hypertension, hepatopulmonary syndrome
- Pathophysiology of most omportant disorders of endocrine system – general mechanisms involved in disturbances of endocrine system; Pathophysiology of hypothalamo-pituitary system, thyroid gland and parathyroid gland
- Pathophysiology of hematopoietic system – anemiae, polycytemiae, leukemia, disturbances of coagulation, consequences for organism
- Pathophysiology of gastrointestinal system – ulcer disese of stomach and duodenum, main types of disturbances of small and large intestine
Brief syllabus of seminars and practical sessions
- Practical session:Pathogenetic analysis of ECG records with disturbances of impuls creation
- Practical session: Pathogenetic analysis of ECG records with disturbances in conduction system (heart blocks)
- Practical session: : Pathogenetic analysis of ECG records with myocardial infarction, chronic IHD, hypertrophy of heart atrias and ventricles
- Practical session: Individual evaluation of ECG
- Seminar: Pathophysiology of valvular heart diseases and heart failure
- Seminar: Causes and mechanisms involved in disturbances of arterial and venous circulation in lower extremities, disturbancesof pulmonary and visceral circulation
- Practical session: Lung function tests – spirography, parameters of normal and pathologic spirographic records, evaluation and interpretation of pathologic data: discussion on disturbances of external breathing
- Seminar: Defensive mechanisms of respiratory system –types, causes and mechanisms oftheir insufficiency/failure, consequences for function of respiratory system

- Seminar: Hypoxie - disturbances of oxygen and carbon dioxide transport mechanisms. Pathophysiology of respiratory insufficiency/failure
- Seminar: Manifestation of glomerular and tubular disturbances – mechanisms responsible for their development. Etiopathogenesis of nephritic sxndrome.
- Seminar: Pathophysiology of acute and chronic renal insufficiency/failure Seminár: Patofyziológia ikterov
- Presentation of semestral work – symptoms and signs of real/virtual patient, their pathophysiologic interpretation

Recommended literature:

Nečas, E. a kol.: Obecná patologická fyziologie. Praha: Karolinum, 2002. 377 s.
Nečas, E. a kol.: Patologická fyziologie orgánových systémů I a II. Praha: Karolinum, 2006. 760 s.
Hulín, I. a kol.: Patofyziológia. Bratislava: SAP, 2002. 1397 s.
Bada, V.: Praktická príručka elektrokardiografie. Bratislava: UK, 1991. 127 s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 321

A	ABS0	B	C	D	E	FX
57,32	0,0	19,31	14,64	4,67	3,74	0,31

Lecturers: prof. MUDr. Miloš Tatár, CSc., prof. MUDr. Renata Péčová, PhD., prof. MUDr. Jana Plevková, PhD., MUDr. Tomáš Buday, PhD.

Last change: 30.11.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/J-S-VL-047/19	Pediatric Propedeutics

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Histology and embryology 2,n Pathological physiology 2. Internal propedeutics 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: 107

A	ABS0	B	C	D	E	FX
2,8	0,0	9,35	42,99	29,91	14,95	0,0

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD., doc. MUDr. Miriam Kuricová, PhD., doc. MUDr. Zuzana Havlíčeková, PhD., prof. MUDr. Mgr. Miloš Jeseňák, PhD., MBA, doc. MUDr. Slavomír Nosáľ, PhD., prof. MUDr. Mirko Zibolen, CSc., doc. MUDr. Katarína Maťašová, PhD.

Last change: 16.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:

Learning outcomes:
To provide characteristics of the pediatric surgeryopportunities of frequent surgical diseases in childhood,operative treatment and principes of perioperative management.Specificity of surgical approach in neonate,infant early and late childhood.

Class syllabus:
Neonatal surgery Surgery of congenital malformations in neonate,infants and children Surgery of acquired diseases Acute abdomen in childhood Miniinvasive surgery in pediatric patient

Recommended literature:
Papers and seminars Script in preparation Ashcraft,K.W.:Pediatric surgery, W.B.Saunders Company,2000

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 52

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

Lecturers: doc. MUDr. Milan Dragula, PhD., MUDr. Marián Molnár, PhD., MBA, doc. MUDr. Dalibor Murgaš, PhD.

Last change: 19.11.2019

Approved by:

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.KDD/2-JVL-SS4/17	**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: 15.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30 / 30
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
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:
SK
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:

Past grade distribution
Total number of evaluated students: 187

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.

Last change: 15.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 30
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
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:
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 language

Notes:

Past grade distribution
Total number of evaluated students: 164

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.

Last change: 15.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KDD/2-JVL-073/17	Pediatrics (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 16 **per level/semester:** 240
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 11., 12..

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Pediatrics 2, Summer practice

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:
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
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
Jurko, A. a kol.:Vyšetrovacie metódy v detskej kardiológii. Bratislava: UK, l993. l85 s. Skriptá. ISBN
80-223-0596-0

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 474

A	ABS0	B	C	D	E	FX
69,2	0,0	22,36	6,96	0,84	0,63	0,0

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD.

Last change: 14.02.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-029/19	Pharmacology (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Pathological Physiology II.

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.
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 organism;
The essential of pharmacodynamics –mechanisms of drugs action from the molecular to the level of the organism;
Drugs prescription – the basic rules and methods for prescription of brand products (HVLP) as well individually prepared medicinal products (ILP);
The following special pharmacology topics: Pharmacological groups of agents influencing vegetative nervous system; Respiratory system; Gastrointestinal system; Anticancer agents and essential of Immunopharmacology; Drugs influencing the metabolism of hormones, homeostasis of minerals, bone metabolism and Pharmacology of vitamins.
The main properties of drugs classified as members of different pharmacological groups from the following point of view: mechanism of action, indications, contraindications, side effects, important 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 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, basic extemporaneous drugs;
Prescription of solid and soft drug forms – trade products, basic extemporaneous drugs;
Special Pharmacology:
Pharmacology of ANS – parasympathomimetics, parasympatholytics; sympathomimetics; sympatholytics;
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 antityroidal drugs;
Drugs affecting homeostasis of minerals, bone metabolism, vitamins;
Principles of anticancer pharmacotherapy;
Fundamentals 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:

Lincová, D., Farghali, H. A kol.: Základní a aplikovaná farmakologie, II. vydání. Galén, 2007.
Mirossay, L., Mojžiš, J. a kol.: Základná farmakológia a farmakoterapia, Equilibria, 2006.
Hrková, V. a kol.: Receptúrna propedeutika, Martin, Osveta, 1993.
Rang HP, Dale MM, Ritter JM.: Pharmacology. 7th ed., Churchill Livingstone, 2012.
Rang HP, Dale MM: Pharmacology. 8th ed., Churchill Livingstone, 2015.
Katzung, B.G.: Basic Clinical Pharmacology, 12th edition, New York : McGraw-Hill, 2015.
Katzung, B.G.: Basic Clinical Pharmacology, 11th edition, New York : McGraw-Hill, 2013.

Languages necessary to complete the course:
Slovak

Notes:

Past grade distribution
Total number of evaluated students: 226

A	ABS0	B	C	D	E	FX
28,32	0,44	44,69	17,7	6,19	2,65	0,0

Lecturers: prof. RNDr. Soňa Fraňová, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD., doc. MUDr. Martina Šutovská, PhD.

Last change: 03.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚFa/J-S-VL-030/18	Pharmacology (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 5

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Pharmacology I.

Course requirements:
During semester: The successful passing three written tests or one final test.
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:
The graduate of Pharmacology 2. acquire the extensive knowledge concerning the pharmacology of drugs affecting the functions of the central and peripheral nervous systems. After graduation of the subject, students gain detailed information about the pharmacotherapy of the cardiovascular system diseases, pain and inflammation, rational use of antibiotics and chemotherapeutic agents and poisoning treatment. Each part of the special pharmacology is aimed at pharmacological properties of selected representatives in terms of mechanism, indications, contraindications, side effects, serious interactions, dosage and pharmacokinetic parameters.

Class syllabus:
Pharmacology of CNS: classification of the receptor systems and drugs; Sedatives; Anxiolytics; Antidepressants; Antimanics; Neuroleptics; Nootropic and cognitive substances; Anticonvulsants; Antiparkinsonic drugs;
Drugs used in anaesthesiology: General anaesthetics; Local anaesthetics; Muscle relaxants;
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; Pharmacothepy of obesity;
Antibiotics and chemotherapeutics: Inhibitors of bacterial cell wall synthesis, Inhibitors of protein and nucleic acid synthesis; Antituberculotic drugs; Antifungal agents; Anthelmintics; Antimalarial; Antivirals drugs;
Treatment of pain and inflammation: Opioid analgesics and adjuvant therapy; Non-opioid analgesics; Principles of pain treatment; NSAIDs and Antirheumatic drugs;

Principles of toxicology: Treatment of drug poisoning; Drug addiction and addiction therapy; Pharmacology of autacoids;
Practical lessons aimed at the application of acquired knowledge obtained from the subjects Pharmacology 1. and Pharmacology 2. in clinical cases;

Recommended literature:
Lincová, D., Farghali, H. A kol.: Základní a aplikovaná farmakologie, II. vydání. Galén, 2007. Mirossay, L., Mojžiš, J. a kol.: Základná farmakológia a farmakoterapia, Equilibria, 2006. Hrková, V. a kol.: Receptúrna propedeutika, Martin, Osveta, 1993. Rang HP, Dale MM, Ritter JM.: Pharmacology. 7th ed., Churchill Livingstone, 2012. Rang HP, Dale MM: Pharmacology. 8th ed., Churchill Livingstone, 2015. Katzung, B.G.: Basic Clinical Pharmacology, 12th edition, New York : McGraw-Hill, 2015.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 235

A	ABS0	B	C	D	E	FX
48,51	0,0	25,11	14,89	5,11	4,68	1,7

Lecturers: prof. RNDr. Soňa Fraňová, PhD., doc. MUDr. Martina Šutovská, PhD., prof. MUDr. Mgr. Juraj Mokrý, PhD.

Last change: 28.01.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
J-S-VL-018 Microbiology 2, J-S-VL-030 Pharmacology 2, J-S-VL-041 Internal Medicine 3

Course requirements:
1. To attend both practicals.
2. To pass through the final evaluation. The final evaluation is performed by means of a written test. The pass-through criterion: 17%.
Evaluation: A: 100%, B: 83%, C: 67%, D: 50%, E: 33%, Fx: 17%
Scale of assessment (preliminary/final): 1/1 C (1credit)

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

Class syllabus:
Lectures:
1. Trends in tuberculosis in the world and in the Slovakia.
2. Etiology, pathogenesis, epidemiology, clinical picture and diagnostics of tuberculosis.
3. Principles of treatment. Adverse events of antituberculotic drugs. Extrapulmonary tuberculosis.
Practicals:
1. Clinical symptoms of pulmonary tuberculosis, classification of tuberculosis. Examination of patients – analysis of patients' problems and of objective physical findings.
2. Treatment of tuberculosis. Diagnostic procedures. Examination of patients – drawing up the individual plan of procedures for diagnostics and differential diagnostics, drawing up the individual treatment plan.

Recommended literature:
Study 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:
slovenský

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
87,7	0,0	8,56	2,14	1,07	0,53	0,0

Lecturers: doc. MUDr. Robert Vyšehradský, PhD.

Last change: 16.03.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV1/15	Physical Training (1)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 30
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: 238

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

Lecturers: PaedDr. Jozef Šimeček

Last change: 19.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV2/15	Physical Training (2)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 30
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: 183

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

Lecturers: PaedDr. Jozef Šimeček

Last change: 19.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV3/16	Physical Training (3)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 30
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: 164

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

Lecturers: PaedDr. Jozef Šimeček

Last change: 19.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV4/16	Physical Training (4)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2 **per level/semester:** 30
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: 141

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

Lecturers: PaedDr. Jozef Šimeček

Last change: 19.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

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

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 5 / 4 **per level/semester:** 75 / 60
Form of the course: on-site learning

Number of credits: 9

Recommended semester: 3.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Medical Biophysics

Course requirements:
1. To participate actively on the practical sessions, to take part at 93 % of practicals
2. To pass 2 credit tests by minimum of 60% (Physiology of blood, Physiology of cardiovascular system)
3. To prepare and present one physiological topic (seminar)
Scale of assessment (preliminary/final): 100/0

Learning outcomes:
After completion of the subject the student obtains knowledge and recognizes the principles of the human body functions on the different levels: molecular, subcellular, cellular, tissue, organ and systemic. The major emphasize is on the mechanisms and regulations of functions. The principles are applied in the complex interactions between the systems maintaining the constant internal environment (homeostasis) and external environment. In Physiology 1 the student understands the functions of Blood, Cardiovascular System and Respiratory System. The student reaches deep knowledge by means of interactive lectures, case studies analysis and simulation technologies.
The student becomes experienced in examinations of the human body functions by modern clinical methods during practical training.

Class syllabus:
Physiology of blood (volume, composition, erythrocytes, ESR, leukocytes, platelets, hemostasis, blood groups, blood transfusion, principles of immunophysiology). Cardiovascular system (physiology of the heart, cardiac cycle and output, heart sounds, methods of examination of the heart and vessels, regulation, reflexes, hemodynamics, circulation in the special regions, lymphatic circulation, ontogenetic aspects of the cardiovascular system from intrauterine life up to the elderly). Respiratory system (ventilation, mechanics of breathing, pulmonary function tests, gas exchange, gas transport, pulmonary surfactant, oxygen therapy, artificial ventilation, regulation of the breathing, ontogenetic aspects).

Recommended literature:
Basic:

Javorka K. a kol.: Lekárska fyziológia, 4. vyd., Martin, Osveta, 2014, 769 s. ISBN 978-80-8063-407-0
Čalkovská A. a kol.: Návody k praktickým cvičeniam z fyziológie. Bratislava, UK, 2014, 153 s. ISBN 978-80-223-3578-2
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

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 630

A	ABS0	B	C	D	E	FX
49,05	1,11	43,02	6,19	0,48	0,16	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.

Last change: 15.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 75 / 60
Form of the course: on-site learning

Number of credits: 10

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Physiology 1

Course requirements:
1. To participate actively on the practical sessions, to take part at 93 % of practicals
2. To pass 2 credit tests by minimum of 60% (Physiology of respiratory system, Physiology of GIS, Physiology of nervous system, senses and muscles)
3. To prepare and present one physiological topic (seminar)
Scale of assessment (preliminary/final): 50/50

Learning outcomes:
After completion of the subject the student obtains knowledge and recognizes the principles of the human body functions on the different levels: molecular, subcellular, cellular, tissue, organ and systemic. The major emphasize is on the mechanisms and regulations of functions. The principles are applied in the complex interactions between the systems maintaining the constant internal environment (homeostasis) and external environment. In Physiology 2 the student understands the functions of Gastrointestinal system, Muscles, Reproductive System, Endocrine System and Neural System. The student reaches deep knowledge by means of interactive lectures, case studies analysis and simulation technologies.
The student becomes experienced in examinations of the human body functions by modern clinical methods during practical training.

Class syllabus:
Physiology of gastrointestinal system (physiology of the mouth, esophagus, stomach, liver and biliary system, digestion and absorption). Renal physiology. Physiology of muscles (skeletal and smooth). Thermoregulation and fever. Physiology of the nervous system (peripheral, autonomic and central). Physiology of the endocrine system. Ontogenetic aspects of the systems. Ageing.

Recommended literature:
Basic:
Javorka K. a kol.: Lekárska fyziológia, 4. vyd., Martin, Osveta, 2014, 769 s. ISBN 978-80-8063-407-0

Čalkovská A. a kol.: Návody k praktickým cvičeniam z fyziológie. Bratislava, UK, 2014, 153 s. ISBN 978-80-223-3578-2
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

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 626

A	ABS0	B	C	D	E	FX
55,27	0,0	16,13	13,42	7,35	5,59	2,24

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.

Last change: 15.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.PK/J-S-VL-048/18	Psychiatry (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 1 **per level/semester:** 30 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
medical psychology and basics of communication, neurology 1

Course requirements:
Requirements for Psychiatry I evaluation: active participation in practicals is compulsory for at least 13-times ; permanent study check (control question); examination of patients, case reports and analysis, written test – minimal success 65 %; Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less

Learning outcomes:
After completion of the subject the student has a knowledge in basics of general psychiatry – student is able to understand content of the subject, etiopathogenesis, diagnostic methods and treatment of psychiatric disorders and general psychopathology, with an emphasis on communication with patients with impaired mental functions. Student is able to perform basic examination aimed to patient´s history and disturbed mental functions.

Class syllabus:
Characteristics and content of psychiatry as a branch of medicine and scientific branch Etiopathogenesis of psychiatric disorders General psychopathology / disturbances of perception, gnostic disorders, disturbances of emotivity, thinking, volitional acting, consciousness, memory, intelect and personality/ Diagnostics of psychiatric disorders Treatment and rehabilitation of psychiatric disorders Some organizational, law and ethical aspects

Recommended literature:
Povinná literatúra
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
Odporúčaná literatúra
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

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
97,86	0,53	1,07	0,0	0,53	0,0	0,0

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD.

Last change: 21.08.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.PK/J-S-VL-049/19	Psychiatry (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 1 **per level/semester:** 30 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
psychiatry 1, neurology 2

Course requirements:
1. The participation in practicals is compulsory at least 11 times.
2. Favourable results during running controls.
3. Favourable results in test
Evaluation till the end of 7th week: active participation in practicals; permanent study check (control question), examination of patients, case reports and analysis.
Evaluation till the end of 14th week: written test – minimal success 60 %; examination of patients, case reports and analysis.
Rating: A/1 = 91 – 100 %; B/1,5 = 81 – 90 %; C/2 = 73 – 80 %; D/2,5 = 66 – 72 %; E/3 = 60 – 65 %, Fx = less than 60 %
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:
Programme of Lectures in Psychiatry
1. Affective disorders I. Depressive disorders.
2. Affective disorders II. Manic disorders. Bipolar affective disorders. /
3. Schizophrenia, schizotypal disorder, persistent delusional disorders, schizoaffective disorder.
4. Reactive disorders, neurotic disorders. Posttraumatic stress disorders. Adjustment disorders. Somatoform disorders. Eating disorders. Sleep disorders.
5. Psychoactive substance use disorders. Psychoactive substance dependence due to alcohol and other drugs. Abuse and harmful use, dependence, intoxication, withdrawal state.
6. Organic and symptomatic mental disorders. Old age psychiatry.

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

Recommended literature:

Povinná literatúra
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.
Odporúčaná literatúra
Kolibáš, E. Príručka klinickej psychiatrie. Nové Zámky : Psychoprof, 2010. 304 s. ISBN 978-80-89322-05-3
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
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
Kafka, J. a kol. Psychiatria. Martin: Osveta, 1998. 255s. ISBN 80-2170-514-0
Pečeňák, J., Kořínková, V. et al.: Psychofarmakológia. Wolters Kluwer, 2016. 672 s. ISBN 978-80-8168-542-2

Languages necessary to complete the course:
slovak

Notes:

Past grade distribution
Total number of evaluated students: 187

A	ABS0	B	C	D	E	FX
87,17	0,0	12,3	0,53	0,0	0,0	0,0

Lecturers: doc. MUDr. Igor Ondrejka, PhD., MUDr. PhDr. Igor Hrtánek, PhD.

Last change: 04.12.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 45 / 15
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Physiology 2, Propedeutics of internal diseases 1, Medical ethics

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

Learning outcomes:
After completion of the subject the student understands the role of hygiene (as a preventive medical branch) within public health in 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). Hygiene-epidemiological regime in health care facilities Prevention in public health. Environmental hygiene. 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. Organization of health care system. Screening, dispensarization. Health information system. Education of health care professionals. System of sickness and pension insurance.

Recommended literature:
Obligatory literature:
ROVNÝ, I. a kol: Vybrané kapitoly verejného zdravotníctva II. Turany, P+M, 2013, 896 s., ISBN 978-80-89057-44-3
ROVNÝ, I. a kol: Vybrané kapitoly verejného zdravotníctva I. Turany, P+M, 2011, 592 s., ISBN 978-80-89057-33-7

OZOROVSKÝ V. a kol.: Sociálne lekárstvo. Bratislava: Asklepios, 2011. 166 s. ISBN 978-88-7167-158-9
ŠEVČÍKOVÁ, Ľ. a kol.: Hygiena. Univerzita Komenského v Bratislave, Vydavateľstvo UK 2006, 328 s., ISBN 80-223-2103-6
MÜLLEROVÁ, D.: Zdravá výživa a prevence civilizačních nemocí ve schématech. Praha, Triton 2003, 99 s.
BUCHANCOVÁ, J., KLIMENTOVÁ, G., ŠULCOVÁ, M., FABIANOVÁ, E.: Pracovné lekárstvo a toxikológia, Osveta, Martin 2003, 1133 s. ISBN 80 8063-113-1.
JURKOVIČOVÁ, J. a kol. Praktické cvičenia z hygieny. Bratislava: UK, 2010, 330 s. ISBN 978-80-223-2816-6
https://moodle.uniba.sk
Recommendet 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
TESAŘ, T. a kol. Hodnotenie zdravotníckych technológií: Úvod do problematiky. Bratislava: SAP, 2014. 96 s. ISBN 978-80-89607-23-5
ŠAGÁT, T. Organizácia zdravotníctva. Martin: Osveta, 2004. 210 s. ISBN 80-8063-143-3.
TUČEK, M., CIKRT, M., PELCLOVÁ, D. Pracovní lékařství pro praxi. Příručka s doporučenými standardy, Praha: Grada, 2005. 328 s.
Zákony: 576/2004; 577/2004; 578/2004; 579/2004; 461/2003 a ich novelizácie.
http://www.who.int/phe/health_topics/en/

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

Notes:

Past grade distribution
Total number of evaluated students: 226

A	ABS0	B	C	D	E	FX
83,19	0,0	14,6	1,77	0,44	0,0	0,0

Lecturers: prof. MUDr. Henrieta Hudečková, PhD., MPH, prof. MUDr. Tibor Baška, PhD., prof. MUDr. Viera Švihrová, CSc.

Last change: 21.08.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Infectology, Publich Health 1

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

Learning outcomes:
After completion of the subject the student understands epidemiological methods, basic terms of medical statistics, features of epidemic process, immunization and vaccination, disinfection, disinsection, rodent control, main characteristics of communicable diseases occurrence, epidemiology of chronic non-communicable diseases and their primary, secondary and tertiary prevention, essential terms of tropical and travel medicine

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

Recommended literature:
Obligatory literature

HUDEČKOVÁ, H., ŠVIHROVÁ, V.: Očkovanie. Martin, Osveta, 2013, 221 s. ISBN 978-80-80633-96-7
BAKOSS, P. a kol.: Epidemiológia. 4. vydanie. Bratislava, Univerzita Komenského 2013. 517 s. ISBN 978-80-223-3499 0
BAZOVSKÁ, S. a kol.: Špeciálna epidemiológia. 2. doplnené a aktualizované vydanie Bratislava: UK, 2017. 366 s. ISBN 978-80-223-4179-0
https://moodle.uniba.sk
Recommended:
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: 166

A	ABS0	B	C	D	E	FX
79,52	0,0	13,25	6,63	0,0	0,6	0,0

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

Last change: 24.08.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 22,5 / 22,5
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

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 2. NEURORADIOLOGY # To describe the normal anatomy and physiology of the brain, skull, skull base, spine, spinal cord and nerve roots on cross-sectional imaging # To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in neuroradiology # To explain when to refer a patient to ultrasonography/Doppler sonography, CT or MRI in neuroradiology # To list typical imaging features of ischaemic and haemorrhagic stroke on cross-sectional imaging # To describe common imaging features of traumatic brain injury and spinal trauma on cross-sectional imaging # To list typical imaging features of white matter disease, inflammation and degeneration on cross-sectional imaging # To describe typical imaging features of the most common tumours of the brain and spine # To describe the anatomy and to describe typical imaging features of pathologies of pontocerebellar angle # To describe the acute headache imaging management and to describe typical imaging features of related diseases # To identify and describe the imaging features of brain complications: mass effect, infiltration, engagement, oedema, contrast enhancement # To have a basic knowledge of neuroradiological interventions including revascularisation and coiling # To have a basic understanding of the common indications, contraindications and limitations in neuroradiology 3. HEAD AND NECK IMAGING # To describe the normal anatomy and physiology of the head and neck on cross-sectional imaging # To describe the relative values of and indications for radiography, fluoroscopy, ultrasonography, CT and MRI in head and neck imaging # To explain when to refer a patient to radiography, ultrasonography, CT or MRI of the head and neck # To describe common imaging manifestations of trauma, inflammation and infection of the head and neck region # To describe typical imaging manifestations of tumours of the head and neck region # To have a basic understanding of the common indications, contraindications and limitations in head and neck imaging 4. CARDIOVASCULAR RADIOLOGY # To describe the

normal anatomy and physiology of the heart and vessels on radiographs, ultrasonography/ Doppler sonography, CT and MRI # To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in cardiovascular imaging # To explain when to refer a patient to radiography, ultrasonography/Doppler sonography, CT or MRI of the cardiovascular system # To describe the different types of cardiac configuration on chest radiography # To explain which chambers form the border of the cardiac silhouette on chest radiography # To have a basic understanding of congenital heart disease and the diagnostic features on conventional radiographs # To differentiate radiological features and causes of cardiac enlargement, including acquired valvular disease and pericardial disease # To describe radiological features of vascular occlusion, stenosis and thrombosis # To explain the diagnostic evaluation of ischaemic heart disease # To describe the normal dimensions of the aorta and classify aortic aneurysms and dissections # To have a basic understanding of the common indications, contraindications and limitations in cardiovascular imaging 5. EMERGENCY RADIOLOGY # To have an understanding when to refer a patient to radiography, ultrasonography/Doppler sonography, CT, MRI or DSA in emergencies in adult and child age 6. INTERVENTIONAL RADIOLOGY # To describe the normal anatomy and physiology of the arterial and venous system and have an understanding of its relevance to interventional radiology # To list typical endovascular approaches to common disorders in interventional radiology # To list typical approaches for image-guided biopsy taking, placement of drainages and ablative techniques # To have an understanding of the risk involved in common interventional techniques # To list the standard procedure in emergency situations, including resuscitation techniques # To have a basic understanding of the common indications, contraindications and limitations in interventional radiology 7. CHEST RADIOLOGY AND BREAST IMAGING # To describe the anatomy and physiology of the respiratory system, heart and vessels, mediastinum and chest wall on radiographs and CT # To describe the relative values of and indications for radiography and CT in thoracic imaging # To explain when to refer a patient to radiography, CT or MRI of the chest # To have an understanding of imaging patterns in chest radiology including consolidations, nodules, hyperlucencies, hyperinflation # To describe the chest radiography signs, including silhouette sign, air bronchogram, air crescent sign, deep sulcus sign # To describe the imaging appearance of monitoring and support devices (“tubes and lines”) including endotracheal tubes, central venous catheters, nasogastric tubes, chest drains, pacemakers # To list the typical chest radiography appearances and common causes of pleural effusion # To describe the clinical and imaging features of pneumothorax and tension pneumothorax # To list typical imaging features of pneumonia on radiographs and CT # To list typical imaging features of emphysema on radiographs and CT # To describe the typical imaging appearances of bronchiogenic carcinoma and pulmonary metastases on radiographs and CT # To list the typical imaging patterns of mediastinal masses on radiographs and CT # To have an understanding of the clinical work-up of lung nodules # To describe the imaging signs of pulmonary embolism # To have a basic understanding of the common indications, contraindications and limitations in thoracic imaging # To be aware of the differences between high resolution CT (HRCT) of the chest, CT angiography of the pulmonary arteries and staging CT of the chest # To describe the normal anatomy and physiology of the female breast, axilla and associated structures and how they change with age # To have a basic understanding of the main radiological techniques employed in breast imaging (including mammography, ultrasonography and MRI) as well as their indications and relative diagnostic value # To know when to refer a patient for mammography, ultrasound and/or MRI of the breast # To have a basic understanding of the appearance of common benign diseases and of breast cancer on mammography # To have a basic understanding of techniques of ultrasound of the breast and of the appearance of common breast pathologies on ultrasound # To have a basic understanding of MRI of the breast # To have a basic understanding of the common indications, contraindications and limitations in breast imaging 8. GASTROINTESTINAL AND

ABDOMINAL RADIOLOGY # To describe the normal anatomy and physiology of the internal viscera, abdominal organs, omentum, mesentery and peritoneum on conventional radiology, CT, ultrasound and MRI # To describe the relative values of and indications for radiography, fluoroscopy, ultrasonography, CT and MRI in gastrointestinal and abdominal imaging # To explain when to refer a patient to radiography, ultrasonography, CT or MRI of the abdomen # To list typical imaging features of acute abdominal conditions, including perforation, haemorrhage, inflammation, infection, obstruction, ischaemia and infarction on radiographs, ultrasound and CT # To list typical imaging features of colon tumours, diverticulitis, and inflammatory bowel diseases # To describe typical imaging features of primary and secondary tumours of the solid abdominal organs and of the gastrointestinal tract # To have a basic understanding of the common indications, contraindications and limitations in gastrointestinal and abdominal imaging 9. UROGENITAL RADIOLOGY, GYNAECOLOGICAL AND OBSTETRIC RADIOLOGY # To describe the normal anatomy and physiology of the retroperitoneum, kidneys, ureters, bladder, urethra and genital tract on ultrasonography and cross-sectional imaging # To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in urogenital radiology # To explain when to refer a patient to radiography, CT or MRI of the urogenital system # To have an understanding of contrast medium management in renal failure # To list typical imaging features of the most common diseases of the kidneys and of the urinary tract # To list typical imaging features of the most common pathologies of the prostate, seminal vesicles and testes # To have a basic understanding of the common indications, contraindications and limitations in urogenital imaging # To describe the normal anatomy and physiology of the female reproductive organs on ultrasound, CT and MRI # To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in gynaecological and obstetric imaging # To explain when to refer a patient to radiography, ultrasonography/Doppler sonography, CT or MRI in gynaecological and obstetric imaging # To explain how the female reproductive organs change with age and during pregnancy # To list typical imaging features of benign and malignant tumours of the female reproductive organs # To describe the typical imaging features of the most common disorders associated with pregnancy and delivery # To list techniques to reduce exposure doses for radiographic and CT examinations of the female reproductive organs # To have a basic understanding of the common indications, contraindications and limitations in gynaecologic and obstetric imaging 10. PAEDIATRIC RADIOLOGY # To describe normal paediatric anatomy and physiology and how it changes with age on conventional radiology, ultrasonography and cross-sectional imaging # To describe the relative values of and indications for radiography, ultrasound, radiography CT and MRI in children # To explain when to refer a child to radiography, ultrasonography/Doppler sonography, CT or MRI # To explain the increased vulnerability of children to ionizing radiation # To have a basic understanding of the typical imaging manifestations of accidental and non-accidental trauma # To list basic imaging features of the most common disorders of the brain, spine, chest, gastrointestinal tract and abdomen, urogenital system and musculoskeletal system in neonates, infants, children and adolescents # To have a basic understanding of the common indications, contraindications and limitations in paediatric imaging 11. MUSCULOSKELETAL IMAGING # To describe the normal anatomy and physiology of the musculoskeletal system on conventional radiology and cross-sectional imaging # To describe the relative values of and indications for radiography, ultrasonography, CT and MRI in musculoskeletal imaging # To explain when to refer a patient to radiography, ultrasonography, CT or MRI of the musculoskeletal system # To list common imaging presentations of trauma involving the skeleton on conventional radiographs # To list typical imaging presentations of degenerative disorders of the musculoskeletal system on conventional radiographs # To describe common imaging manifestations of musculoskeletal infection and inflammation, metabolic diseases, including osteoporosis, and common bone tumours

To have a basic understanding of the common indications, contraindications and limitations in musculoskeletal imaging

Class syllabus:

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

Recommended literature:

Mandatory literature

1. Heřman M. Základy radiologie, Unverzita 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

Additional literature

3.Ferda J.,et.al Základy zobrazovacích metod, Galén,2015 ISBN 9788074921643
4. Ferda J.,et al. Inovativní zobrazovací metody, Galén,2015 ISBN 9878074921865
5. Bilický J., et.al Rádiológia I. všeobecná časť, Veda, 2011 ISBN 9788922411950
6. Bilický J., et.al Špeciálna časť 1: Hrudník:pľúca,srdce,mamodiagnostika, Veda, 2012 ISBN 9788022412445
7. Bilický J., et.al Rádiológia. Špeciálna časť 2: GIT-Ezofagus,žalúdok,tenké črevo,hrubé črevo,hepar,žlčové cesty a žlčník,pankreas,slezina, Veda, 2012 ISBN 9788022412452
8. Bilický J.,et.al Rádiológia.Špeciálna časť 3:Urorádiológia, Veda, 2012 ISBN 9788022412469
9. Bilický J.,et.al Rádiológia. Špeciálna časť 4: Muskuloskeletálny systém, Veda, 2012 ISBN 9788022412476
10. Bilický J.,et.al rádiológia. Špeciálna časť 5: Neurorádiológia, Veda,2012 ISBN 9788022412483
11. Bilický J., et.al Rádiológia. Špeciálna časť 6: Intervenčná rádiológia, Veda,2012 ISBN 9788022412490
12. Bilický J.,et.al Rádiológia 7: Muskuloskeletálny systém:1, Veda, 2011 ISBN 9788022411776
13. Bilický J.,et.al Rádiológia 8: Muskuloskeletálny systém:2, Veda, 2011 ISBN 9788022411783
14. Bilický J.,et.al. Rádiológia 9: Neurorádiológia,ORL, Veda, 2011 ISBN 9788022412070
15. Bilický J.,et.al Curriculum rádiológie, SAV, 2014 ISBN 9788022414005
16. Lehotská,V., Bilický, J. a kol. Rádiológia 13: Mamodiagnostika v rádiológii, Veda, 2014 ISBN 9788022413848
17. Režňák I.,et.al Moderné zobrazovacie metódy v lekárskej diagnostike, Osveta, 1992 ISBN 8021704284
18. Eliáš P., et.al Moderní diagnostické metody.II. díl Výpočetní tomografie, IDV PZ, 1998 ISBN 8070132949
19. Válek V.,et.al Moderní diagnostické metody.Díl 3,Magnetická rezonance, IDV PZ, 1996 ISBN 870132256
20. 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
21. Geschwind J., et al. Abrams' Angiography: Interventional Radiology - 3rd edition Lippincott Williams & Wilkins, 2013, ISBN13: 978-1609137922

22. 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
23. 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

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 323

A	ABS0	B	C	D	E	FX
42,72	0,0	25,7	18,58	6,81	2,17	4,02

Lecturers: doc. MUDr. Kamil Zeleňák, PhD., MUDr. Martin Ševík, PhD.

Last change: 01.10.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Course requirements:
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.
Scale of assessment (preliminary/final): 0/100

Learning outcomes:

Class syllabus:
Fundaments and structure of a modern science Scientific and non-scientific methods – kinds and characteristics Methods of scientific data collection Methods of processing and analyzing scientific information Research process and its phases Kinds of research and development of research project Ethics of scientific work and presentation of results Evidence based medicine Types of scientific and expert publications Student scientific and expert work at the Jessenius Faculty of Medicine, Comenius University in Martin

Recommended literature:
Hulín I et al.: Úvod do vedeckého bádania. Slovak Academic Press Bratislava, 2003, 553s Hanáček J, Javorka K a kol. Základy vedecko-výskumnej práce. Príručka pre doktorandov a mladých vedeckých pracovníkov. Osveta Martin, 1. vydanie, 2008 https://moodle.uniba.sk/ https://www.ncbi.nlm.nih.gov/pubmed/ www.scopus.com

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.
Last change: 24.08.2020
Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 30
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Public Health 1

Course requirements:
Scale of assessment (preliminary/final): 0/100

Learning outcomes:
After completion of the subject the student is able to solve social and ethical problems related to health care providing. The student is able to apply social communication among health care workers and in physician-patient relations. The student understands the importance of respect of human life since conception to death.

Class syllabus:
Social and ethical problems of communication in health care providing. Social and ethical aspects of health care providing to woman, mother and child. Social and ethical aspects of health care providing in geriatrics. Social and ethical aspects of health care providing to handicapped patients. Social and ethical aspects of health care providing to dying patients. Social and ethical aspects of transplantations and blood donorship.

Recommended literature:
Recommended literature: VAJDA J.: Úvod do etiky, ENIGMA Nitra, 2004, s. 251, ISBN 80-89132-12-X MUNZAROVÁ M.: Lékařský výzkum a etika, GRADA Praha, 2005, s. 120, ISBN 80-247-0924-4 TATE P.: Komunikace pro lékaře, GRADA Praha, 2005, s. 164, ISBN 80-247-0911-2

Languages necessary to complete the course:
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: PhDr. Marta Tkáčová, PhD.
Last change: 21.08.2020
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.KTL/J-S-VL-053/18	Sport Medicine

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 1 / 1 **per level/semester:** 15 / 15
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

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: 187

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

Lecturers: prof. MUDr. Dušan Meško, PhD.

Last change: 29.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

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

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / 1 **per level/semester:** 7,5 / 15
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
J-S-VL-003 Anatomy III, J-S-VL-522 Surgical Propedeutics

Course requirements:
Attendance on practical exercises 80%. Continuous assessment test form, minimum level succes 65 %, maximum number of points are 21, minimum number of points are 13. Final evaluation in the form of an oral examination.
Scale of assessment (preliminary/final): Final evaluation in the final test form, maximum number of points are 30, minimum level succes 65 %, 19 points.

Learning outcomes:
After completion of the subject the student understands various severe pathological processes in oro-maxillofacial region. The student is able to analyse interrelationship between systemic disease of the body and diseases of oro-maxillofacial region. After completion of the subject the student is able to apply interdisciplinary view when analyzing diseases of oro-maxillofacial region. The student is able to apply knowledge aquired from practical exercises during the examination and diagnosis of injuries and diseases of oro-maxillofacial region. After completion of the subject the student is able to identify precancerous changes, benign, malignant tumors of maxillofacial region and understands the basic guidlines of the multimodal cancer therapy. The student understands basic guidlines in the care about 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, english language

Notes:

Past grade distribution

Total number of evaluated students: 226

A	ABS0	B	C	D	E	FX
91,59	0,0	7,52	0,88	0,0	0,0	0,0

Lecturers: doc. MUDr. Dagmar Statelová, CSc., doc. MUDr. Mária Janíčková, PhD., MPH

Last change: 13.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFa/J-S-VL-098/17	**Course title:** Student Scientific Activity (1)
Educational activities: **Type of activities:** practicals **Number of hours:** **per week:** 3,33 **per level/semester:** 49,95 **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: 4

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.

Last change: 25.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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: 3,33 **per level/semester:** 49,95
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: 4

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.

Last change: 25.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ÚFa/J-S-VL-100/18	**Course title:** Student Scientific Activity (3)
Educational activities: **Type of activities:** seminar **Number of hours:** **per week:** 3,33 **per level/semester:** 49,95 **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: 4

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.

Last change: 25.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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: 3,33 **per level/semester:** 49,95
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: 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. Mgr. Juraj Mokrý, PhD.

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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: 3,33 **per level/semester:** 49,95
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: 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. Mgr. Juraj Mokrý, PhD.

Last change: 26.09.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚO/J-S-VL-020/19	Summer Practice - Nursing Practice

Educational activities:
Type of activities: practice
Number of hours:
per week: 5,33 **per level/semester:** 79,95
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 4.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Basic 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 week, 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.

Learning outcomes:
Within completion of the subject student applies fundamental principles of nursing care provision and standard procedures of selected nursing techniques and interventions while providing nursing care to the patients in real conditions of clinical nursing practice. Student implements 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,
- record and document the procedure and value assessed,

- provide patient education / instruction after the procedure,
- process all the equipment and items used (decontamination).

Class syllabus:

Handling patient care articles, equipment and supplies. Disinfection of surfaces, articles, surgical instruments and mechanical equipment, disinfection of skin and hands. Preparing articles and supplies to sterilization process (pre-sterilization preparation).
Bed-making. Assistive, safety and support devices of a bed. Manipulation with clean and polluted personal clothes and bed linen. Bed making for infants and toddlers.
Personal hygiene, hygienic care and practices. Oral hygiene – mouth care (care of intact oral cavity, special oral care, caring for artificial dentures), importance of dental care. Skin care practices – morning and evening hygienic care, bathing a patient, complete bed bath, prevention of sores and pressure ulcers. Hair and nail care – brushing and combing hair, shampooing hair, shaving, hair care in special needs – nits (pediculosis) delousing. Dressing a patient with disabled extremity.
Mobility and immobility. Preventive positioning of an immobile patient. Basic chest exercises / chest physiotherapy and leg exercises. Applying compression bandage of lower extremities / elastic compression stockings.
Therapeutic use of heat and cold.
Measuring, assessing and recording vital signs (body temperature, pulse, respiration, blood pressure, oxygen saturation), obtaining an electrocardiogram (ECG).
Nutrition care. Dietary system, serving meals, assisting patients with eating, feeding the patients. Fluid intake and output, intake and output record.
Managing urinary and bowel elimination – insertion of a straight / indwelling urinary catheter in a female, assistance in urinary catheterization in a male, administering an enema.
Administering oral medications (including buccal and sublingual administration). Topical administration of medications – to the skin (including transdermal patch) and mucosa, instillation of eye and ear medications, nasal instillations, application to body cavities (vaginal medications and instillations, rectal medications, bladder irrigation).
Oxygen therapy and respiratory inhalation (nebulization, inhalations).
Parenteral medications – injections. Preparing and administering subcutaneous injections (s.c. – LMWH, insulin) and intramuscular injections (i.m.). Preparing and assisting in administration of intravenous injection (i.v.). Insertion of peripheral intravenous access device, caring for peripheral and central intravenous access devices.
Parenteral nutrition and blood transfusions – preparing and assisting in application of intravenous solutions and infusions. Preparing and assisting in blood transfusions – care of a patient prior, during and after blood transfusion.
Diagnostic and laboratory testing – taking venous blood samples, capillary blood samples (blood sugar analysis, blood gas analysis (CBG), urine specimen collection (screening for chemical properties, culture and sensitivity test), taking stool specimens, sputum specimen collection, swabs / cultures (mucosa, skin, wounds). Eevaluation of laboratory results.
Wound care – changing the wound dressing in aseptic / septic / chronic wounds, assisting in wound care, care of a patient with drain / drainage system.
Establishing and maintaining a sterile field. Assisting in small surgeries.

Recommended literature:

Dingová, M., Lepiešová, M., Rosenberg, A. et al.: Basics of Nursing. Textbook for Medical and Nursing Students. Martin : Comenius University in Bratislava, Jessenius Faculty of Medicine in Martin, 2011. 283 p. ISBN 978-80-88866-6-88-6.
Lepiešová, M., Dingová, M., Nemcová, J., Ovšonková, A., Miertová, M., Tabaková, M., Tomagová, M.: Basics of nursing presentations. Martin : JLFUK – portal MEFANET, 2012,

419 p. [online] ISBN 1337-7396ISSN 1337-7396. Available at: http://portal.jfmed.uniba.sk/articles.php?aid=187https://stella.uniba.sk/epc/JL/2012/vtls000257495.pdf
Kozier, B., Berman, A., Erb, G., Snyder, S. J.: Fundamentals of Nursing: Concepts, Process and Practice. 7th ed. Pearson Prentice Hall, 2004. 1500 p. ISBN 0130455296.
Perry, A. G., Potter, P. A., Ostendorf W.: Clinical Nursing Skills & Techniques. 8th ed. St. Louis, Missouri: Mosby/Elsevier, 2013. 1196 p. ISBN 978-0-323-08383-6.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 62

ABS0	M
100,0	0,0

Lecturers: prof. Mgr. Katarína Žiaková, PhD., Mgr. Anna Ovšonková, PhD.

Last change: 03.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV6/16	Summer Practice in Physical Education

Educational activities:
Type of activities: practicals
Number of hours:
per week: 4 **per level/semester:** 60
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: 0

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

Lecturers: PaedDr. Jozef Šimeček

Last change: 19.03.2018

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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: 5,33 **per level/semester:** 79,95
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites: JLF.GPK/J-S-VL-063/19 - Gynecology and Obstetrics (2)

Recommended prerequisites:
Gynecology and Obstetrics 2

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:

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 181

ABS0	M
100,0	0,0

Lecturers: doc. MUDr. Kamil Biringer, PhD., doc. MUDr. Erik Kúdela, PhD.

Last change: 27.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.IKG/J-S-VL-054/18	**Course title:** Summer Practice-Internal Medicine
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** 5,33 **per level/semester:** 79,95 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: 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: 302	
ABS0	M
95,36	4,64
Lecturers: prof. MUDr. Rudolf Hyrdel, CSc.	
Last change: 14.02.2019	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in 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: 5,33 **per level/semester:** 79,95
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

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: 181

ABS0	M
100,0	0,0

Lecturers: prof. MUDr. Peter Bánovčin, CSc., doc. MUDr. Ľubica Jakušová, PhD.

Last change: 16.10.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/J-S-VL-054/18	**Course title:** Summer Practice-Surgery
Educational activities: **Type of activities:** practice **Number of hours:** **per week:** 6,66 **per level/semester:** 99,9 **Form of the course:** on-site learning	
Number of credits: 1	
Recommended semester: 8.	
Educational level: I.II.	
Prerequisites:	
Recommended prerequisites: 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: 307	
ABS0	M
100,0	0,0
Lecturers: prof. MUDr. Ľudovít Laca, PhD.	
Last change: 25.01.2019	
Approved by:	

STATE EXAM DESCRIPTION

University: Comenius University in Bratislava	
Faculty: Jessenius Faculty of Medicine in Martin	
Course ID: JLF.ChKTC/2-JVL-SS1/17	**Course title:** Surgery
Number of credits: 6	
Educational level: I.II.	
Recommended prerequisites: Surgery 6	
Course requirements: Practical and theoretical state exam	
Learning outcomes: Studnet can complete knowledge of surgical diseases, can enhance the practical skills of surgical propedeutics principles, knows the principles of daily care of the surgical patient, knows the principles of work at the surgical ambulance and operating room. Listed knowledge can applicate to other surgical fields / orthopedics, traumatology, urology, plastic surgery, neurosurgery, pediatric surgery, anaesthesiology and intensive medicine /.	
State exam syllabus:	
Recommended literature: Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0 Ferko, A. a kol.: Chirurgie v kostca. Praha: Grada, 2002. 596 s, isbn 80-2470-304 Way L.W. a kol.: Současná chirurgická diagnostika a léčba I;II. Praha, Grada 1998. 1659 s. Muller, M. a kol : Chirurgie pro studium a praxi. Praha: Publ., 1997, 441s, www.chirweb.cz 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. Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s. Černý, Ján.: Chirurgia tráviacej rúry. Martin: Osveta, 1988, 512.	
Languages necessary to complete the course: Slovak language	
Last change: 06.12.2017	
Approved by:	

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-023/17	Surgery (1)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 6.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgical propedeutics

Course requirements:
Assesment of students is performed by written exam, minimal level of successfulness.
Assesment: A 93 – 100%, B: 86 – 92 %, C: 79 – 85 %, D: 72 – 78%, E: 65 – 71 %, Fx: 64 % and less

Learning outcomes:
The student understands the principles of diagnosis and surgical treatment of endocrine diseases, breast diseases, diseases of the chest wall and the organs of the thoracic and abdominal cyvity, arterial and venous system. The student is able to solve problems of differential diagnosis and by the analysis of disease symptomatology and auxiliary examinations can identify surgical diseases of organs and systems. Become familiar with the principles of organ procurement and transplantation, as well as the problems of surgery in senile age

Class syllabus:
Diseases of the thyroid, parathyroid, adrenal gland and thymus.
Benign and malignant breast disease
Surgical diseases of the organs of the thoracic cavity
Surgical diseases of the esophagus and mediastinum
Surgical disease of the aortic arch branches. Steal syndrome, thoracic outlet syndrome
Surgical diseases of the abdominal aorta branches
Abdominal Aortic Aneurysm
Acute and chronic ischemic limb syndrome
Basics of Cardiac Surgery
Surgical aspects of diagnosis and treatment of Diabetes mellitus. Diabetic foot
Surgical diseases of venous and lymphatic system
Thromboembolic disease, embolism to pulmonary artery. Anticoagulant and thrombolytic therapy
Hemodialysis and vascular access for hemodialysis.
Organ donation and transplantation programme
Surgical problems of senile age

Recommended literature:

Zeman M. a kol.: Chirurgická propedeutika, Praha, Grada 2000, 516s.
Way L. W. a kol.: Současná chirurgická diasgnostika a léčba I;II.Praha, Grada 1998. 1659 s.
Marko L. a kol.: Chirurgia pažeráka a žalúdka. Banská Bystrica, Marko BB s.r.o.2007.214 s.
Štvrtinová V. a kol.: Choroby ciev. Bratislava, SAP 2008, 896 s.
Siman J. a kol.: Princípy chirurgie I. Slovac academic Press 2007, 923 s.
Haruštiak S. a kol.: Princípy chirurgieII. Slovac academic Press 2010, 923 s.
Černý J. a kol.: Špeciálna chirurgia III. Martin, Osveta 1995 645 s.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 502

A	ABS0	B	C	D	E	FX
26,69	0,0	56,18	14,14	2,59	0,4	0,0

Lecturers: prof. MUDr. Ľudovít Laca, PhD.

Last change: 06.12.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-024/18	Surgery (2)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 4

Recommended semester: 7.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgery 1

Course requirements:
Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 60 %. Evaluation: A: 95–100 %, B: 85–90 %, C: 75–80 %, D: 65–70 %, E: 60 %, FX: less than 60 %

Learning outcomes:
Student knows the problematics of acute abdomen, principles of diagnosis and treatment in adults and children. Also is familiar with surgical diseases of the stomach and duodenum, and indications for surgical treatment. Student knows surgical disease of the liver, gallbladder, bile ducts and pancreas and principles of surgical treatment. Is familiar with the surgical diseases of the small and large intestine and their surgical treatment. Studnet knows hernias and the principles of their surgical treatment. Is familiar with particularities of pediatric surgery.

Class syllabus:
Acute abdomen- definition, Division of acute abdomen, especially errors in diagnosis. Principles of diagnosis and treatment of acute abdomen. Bowel obstruction, inflammatory acute abdomen, gastrointestinal bleeding, portal hypertension. Acut abdomen in children. Ulcer disease of the stomach and duodenum, complications, indications for surgical treatment. Surgical diseases of the liver, gallbladder and biliary tract. Surgical diseases of the pancreas. Tumor and non-neoplastic diseases of the small and large intestine and rectum. Hernia. Particularities of Pediatric Surgery.

Recommended literature:
Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Ferko, A. a kol.: Chirurgie v kostca. Praha: Grada, 2002. 596 s, isbn 80-2470-304
Way L.W. a kol.: Současná chirurgická diagnostika a léčba I;II. Praha, Grada 1998. 1659 s.
Muller, M. a kol : Chirurgie pro studium a praxi. Praha: Publ., 1997, 441s, www.chirweb.cz
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.
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Černý, Ján.: Chirurgia tráviacej rúry. Martin: Osveta, 1988, 512.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 310

A	ABS0	B	C	D	E	FX
13,23	0,0	50,32	31,61	4,19	0,65	0,0

Lecturers: prof. MUDr. Ľudovít Laca, PhD.

Last change: 25.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-025/18	Surgery (3)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 2 / 2 **per level/semester:** 30 / 30
Form of the course: on-site learning

Number of credits: 3

Recommended semester: 8.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgery 2

Course requirements:
Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 60 %. Evaluation: A: 95–100 %, B: 85–90 %, C: 75–80 %, D: 65–70 %, E: 60 %, FX: less than 60 %

Learning outcomes:
Student knows about neuroendocrine tumors of GIT, hernias, congenital diseases of digestive tract. Also knows pricnciple of miniinvasive surgery, new technologies in surgery. Student is familiar with basic diagnostic and therapeutic procedures in the treatment of polytrauma. Knows the principles of diagnosis and treatment of injuries of the chest, interior thoracic organs and organs of the abdominal cavity and retroperitoneum. Knows the particularities of traumatology in children. Controls diagnosis and principles of treatment of heart and vascular injury. Know the basic principles of perioperative care in trauma.

Class syllabus:
Neuroendocrine tumors of GIT and surgical treatment, hernias, congenital diseases of digestive tractand their surgical treatment. Miniinvasive surgery. New tehnologies in surgery. Polytrauma, diagnostic and therapeutic procedures, priority treatment. Injury of the chest and the thoracic organs. Injury of the intraabdominal organs and retroperitoneum. Particularities of the traumatology of chidlren. Injury to the heart and blood vessels. Burns. Perioperative care in trauma.

Recommended literature:
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, s 478

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 309

A	ABS0	B	C	D	E	FX
25,57	0,0	47,9	23,95	2,59	0,0	0,0

Lecturers: prof. MUDr. Ľudovít Laca, PhD.

Last change: 25.01.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-026/19	Surgery (4)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / ,5 **per level/semester:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 9.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgery 3

Course requirements:
Scale of assessment (preliminary/final): The condition for the obtaining the credits is the 2/3 (66%) attendance of the lectures and practical seminars.Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less

Learning outcomes:
Student knows the concept, content and basics of the plastic surgery, its operational techniques, diagnostic methods and therapeutic procedures, knows basic nosological entity in the field of plastic surgery. From practical skills student knows basic examination of the hand. Student is familiar with transplant program.

Class syllabus:
Contents and operational techniques in plastic surgery, wound healing, scars, keloids, skin grafts and flaps ,
species distribution, use. Hand surgery - Dupuytren's contracture , carpal tunnel syndrome. Transplantation from dead or living donors.

Recommended literature:
Grab, Smith: Plastic Surgery, 6th Edition, 2006.
Viklický, O. a kol.: Transplantace ledviny v klinické praxi, 2008, GRADA, 380 s., ISBN 978-80-247-2455-3

Languages necessary to complete the course:

Notes:

Past grade distribution
Total number of evaluated students: 187

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

Lecturers: prof. MUDr. Ľudovít Laca, PhD.

Last change: 30.09.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-027/19	Surgery (5)

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: ,5 / ,5 **per level/semester:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgery 4

Course requirements:
Scale of assessment (preliminary/final): The condition for the obtaining the credits is the 2/3 (66%) attendance of the lectures and practical seminars.Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less

Learning outcomes:
The graduate is familiar with the problematics of benign and malign dermal tumors – the classification, diagnostics and treatment options. The student has knowledge about burn injury – the late consequences of burn injury, diagnostics and treatment of hand trauma .The lesion of extensors, flexors, dilacerative injuries and congenital anomalies of hand. Practical skills – the assessment of hand injury. Student is familiar with principles of care about transplanted patients.

Class syllabus:
Benign and malignant tumors of the skin and their surgical treatment. Burn injury – the late consequences of burn injury, diagnostics and treatment of hand trauma .Tthe lesion of extensors, flexors, dilacerative injuries and congenital anomalies of hand.Complications in transplant surgery

Recommended literature:
Grab, Smith: Plastic Surgery, 6th Edition, 2006.
Viklický, O. a kol.: Transplantace ledviny v klinické praxi, 2008, GRADA, 380 s., ISBN 978-80-247-2455-3

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 187

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

Lecturers: prof. MUDr. Ľudovít Laca, PhD.
Last change: 30.09.2019
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/2-JVL-028/17	Surgery (6)

Educational activities:
Type of activities: practicals
Number of hours:
per week: 26,66 **per level/semester:** 399,9
Form of the course: on-site learning

Number of credits: 12

Recommended semester: 11., 12..

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Surgery 5

Course requirements:
Completition of practice before state board exam

Learning outcomes:
Studnet can complete knowledge of surgical diseases, can enhance the practical skills of surgical propedeutics principles, knows the principles of daily care of the surgical patient,
knows the principles of work at the surgical ambulance and operating room. Listed knowledge can applicate to other surgical fields / orthopedics, traumatology, urology, plastic surgery, neurosurgery, pediatric surgery, anaesthesiology and intensive medicine

Class syllabus:
Daily participation in the work at the surgical ward, ambulance and operating room under the supervision of the designated doctor. Write daily records of treatment of a patient, perform small surgery / removal of stitches, wound dressing, assisting in simple surgeries

Recommended literature:
Siman, J. a kol..: Princípy chirurgie Bratislava: SAP, 2007,923 s. ISBN 80-8910-494-0
Ferko, A. a kol.: Chirurgie v kostca. Praha: Grada, 2002. 596 s, isbn 80-2470-304
Way L.W. a kol.: Současná chirurgická diagnostika a léčba I;II. Praha, Grada 1998. 1659 s.
Muller, M. a kol : Chirurgie pro studium a praxi. Praha: Publ., 1997, 441s, www.chirweb.cz
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.
Schein,M., Rogers, P.N. : Urgentní břišni chirurgie. Praha: Grada,2011, 448s.
Černý, Ján.: Chirurgia tráviacej rúry. Martin: Osveta, 1988, 512.

Languages necessary to complete the course:
Slovak language

Notes:

Past grade distribution
Total number of evaluated students: 475

A	ABS0	B	C	D	E	FX
85,89	0,0	11,58	2,11	0,21	0,21	0,0

Lecturers: prof. MUDr. Ľudovít Laca, PhD.

Last change: 06.12.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ChKTC/J-S-VL-022/17	Surgical Propedeutics

Educational activities:
Type of activities: practicals / lecture
Number of hours:
per week: 3 / 2 **per level/semester:** 45 / 30
Form of the course: on-site learning

Number of credits: 6

Recommended semester: 5.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Anatomy 3, Physiology 2

Course requirements:
Continuous assessment of students takes the form of a written examination-test, minimum threshold of success: 65 %. Evaluation: A: 93–100 %, B: 86–92 %, C: 79–85 %, D: 72–78 %, E: 65–71 %, FX: 64 % and less
Final assessment: test, practical and theoretical exam.

Learning outcomes:
Student is familiar with the contents in the field of surgery, ranging from historical aspects to present. Knows the basic surgical techniques and procedures respecting the principles of asepsis and antisepsis. Knows the principles of indications for surgical treatment, can determine operational risk and specify the principles of preoperative, intraoperative and postoperative care. Is familiar with the principles of diagnosis and treatment of locomotor system injuries, burns, frostbite. Is familiar with the principles of diagnosis and treatment of surgical infection. Is familiar with the principles of diagnosis and surgical treatment of malignant disease. Know the basic issue of minimally invasive surgery and transplantation.

Class syllabus:
History of Surgery (breakthrough period, important personalities in surgery). Division of surgery and
principles of surgical treatment, indications for surgical treatment. Basic surgical techniques and procedures. Minimally invasive surgery. Asepsis, antisepsis, sterilization, disinfection. History and physical examination of the surgical patient. Invasive and non-invasive diagnostic methods in the investigation of the surgical patient. Operational risk. Principles of preoperative preparation. Reaction of the organism to injuries and surgical trauma. Changes in the homeostasis of the organism after injury and surgery. Post-operative care and post-operative complications - (CNS, cardiovascular, pulmonary, renal, GI, wound et al.). Shock - definition, classification, and pathophysiology of shock. Monitoring. Prevention and treatment of shock. Nutritional disorders in surgical patients. Enteral and parenteral nutrition. Complications of parenteral nutrition. Hemostatic mechanism and its failure in surgical patients. Antiplatelet, anticoagulant and fibrinolytic therapy. Blood transfusion, blood derivates, alternative solutions. Indications,

risks and complications of blood transfusions and blood products. Infections in surgery - surgical sources of infection. Nosocomial infections. Bacteremia, sepsis, SIRS, multiorgan failure in sepsis. Factors affecting the occurrence and course of infection. Prevention, diagnosis and treatment of surgical infections. Chemotherapy and antibiotic treatment, the principle of prophylactic and therapeutic administration of antibiotics. Bacteriological monitoring. Pyogenic infections of wounds , lymphangoitis, lymphadenitis, hidrosadenitis, cellulitis, abscess, osteomyelitis, anaerobic infection, gas phlegmon, folliculitis, furuncle, carbuncle, cheilitis. Post-operative infections. Inflammatory diseases of the fingers and hand. Growth and spread of malignant tumors, diagnosis, treatment, primary and secondary prevention of tumors. Basics of the oncological surgery. Classification of tumors. Ethical problems in surgery, legal aspects in surgery, surgical assessment activities. Blood transfusion, blood derivates, alternative solutions. Indications, risks and complications of administration transfusion and blood derivatives. Infections in surgery - surgical sources of infection. Nosocomial infections. Bacteremia, sepsis, SIRS, multiorgan failure in sepsis. Factors affecting the occurrence and course of infection. Prevention, diagnosis and treatment of surgical infections. Chemotherapy and antibiotic treatment, the principle of prophylactic and therapeutic administration of antibiotics. Bacteriological monitoring. Pyogenic wound infections, lymphangoitis, lymphadenitis, hidrosadenitis, cellulitis, abscess, osteomyelitis, anaerobic infection, gas cellulitis, folliculitis, furuncle, carbuncle, cheilitis. Post-operative infections. Inflammatory diseases of the fingers and hand. Growth and spread of malignant tumors, diagnosis, treatment, primary and secondary prevention of tumors. Basics of the oncological surgery. Classification of tumors. Ethical problems in surgery, legal aspects in surgery, surgical assessment activities.

Recommended literature:

Siman, J. a kol.: Princípy chirurgie. Bratislava: SAP, 2007, 923 s. ISBN 80-8910-494-0
Zeman, M.: Chirurgická propedeutika. Praha: Grada. 2006, 524 s.,ISBN 80-7169-705-2
Kolektív autoru, ČR: Chirurgická propedeutika. Praha, Grada 2000. 516 s.
Way L.W. a kol.: Současná chirurgická diagnostika a léčba I;II. Praha, Grada 1998. 1659 s

Languages necessary to complete the course:

slovak language

Notes:

Past grade distribution

Total number of evaluated students: 502

A	ABS0	B	C	D	E	FX
28,88	0,0	22,91	21,31	19,32	7,57	0,0

Lecturers: prof. MUDr. Ľudovít Laca, PhD., MUDr. Ivana Daňová, PhD., prof. MUDr. Alexander Ferko, CSc., MUDr. Michal Hošala, PhD., MUDr. Ján Janík, PhD., doc. MUDr. Juraj Miklušica, PhD., MUDr. Anton Mikolajčík, PhD., MUDr. Marek Smolár, PhD., MPH

Last change: 06.12.2017

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 15 / 15
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Public Health 1, Infectology

Course requirements:
Scale of assessment (preliminary/final): 0/100

Learning outcomes:
After completion of the subject the student understands of tropical medicine, specific features of epidemiology and management of communicable and non-communicable diseases in conditions of tropical and subtropical zones, health aspects of travelling

Class syllabus:
Definitions of terms and classification
Specific features of epidemiology and management of communicable and non-communicable diseases in tropical and subtropical zones
Intestinal infections in the tropics and subtropics
Respiratory infections (airborne infections) in the tropics and subtropics
Skin and external mucosae diseases in the tropics and subtropics
Blood infections in the tropics and subtropics
The most important parasitic diseases and tropic and subtropical zones
Health disorders caused by heat and sun radiation
Nutrition associated diseases in developing countries
Essentials of travel medicine – vaccination of travellers, recommendations and counselling, topical information resources, international regulations (International Health Regulations - IHR).

Recommended literature:
Obligatory iterature:
https://moodle.uniba.sk/
CDC: Traveller's health. http://wwwn.cdc.gov/travel/default.asp
WHO: International Travel and Health. http://www.who.int/ith/en/
Recommended:
WHO: Tropical diseases. http://www.who.int/topics/tropical_diseases/en/

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: 24.08.2020

Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.UK/J-S-VL-078/19	Urology

Educational activities:
Type of activities: practicals
Number of hours:
per week: 2,5 **per level/semester:** 37,5
Form of the course: on-site learning

Number of credits: 2

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Course requirements:
credit

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

Languages necessary to complete the course:
Slovak Language

Notes:

Past grade distribution
Total number of evaluated students: 172

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

Lecturers: doc. MUDr. Ján Ľupták, PhD., prof. MUDr. Ján Kliment, CSc., prof. MUDr. Ján Švihra, PhD.

Last change: 19.11.2019

Approved by:

COURSE DESCRIPTION

University: Comenius University in 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:** 7,5 / 7,5
Form of the course: on-site learning

Number of credits: 1

Recommended semester: 10.

Educational level: I.II.

Prerequisites:

Recommended prerequisites:
Public Health 1, Infectology

Course requirements:
Scale of assessment (preliminary/final): 0/100

Learning outcomes:
After completion of the subject the student understands basic principles of prevention by vaccination, the effect of vaccines in individuals on herd immunity, public health significance of vaccination strategies and their implication in the society.

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

Recommended literature:
Obligatory:
HUDEČKOVÁ, H., ŠVIHROVÁ, V.: Očkovanie. Martin, Osveta, 2013, 221 s. ISBN 978-80-80633-96-7
http://www.ecdc.europa.eu

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: 24.08.2020
Approved by:

COURSE DESCRIPTION

University: Comenius University in Bratislava

Faculty: Jessenius Faculty of Medicine in Martin

Course ID:	**Course title:**
JLF.ÚTV/J-S-VL-TV5/15	Winter Practice in Physical Education

Educational activities:
Type of activities: practicals
Number of hours:
per week: 4 **per level/semester:** 60
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: 11

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

Lecturers: PaedDr. Jozef Šimeček

Last change: 19.03.2018

Approved by: