2021/2022

Univerza v Mariboru

Medicinska fakulteta

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Ime predmeta:	**Patologija - specialna patologija**
Course title:	**Pathology - special pathology**

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
Splošna medicina, enovit magistrski študijski program		Tretji	5. in 6.
General medicine, Uniform master's degree study program		Third	5th and 6th

Vrsta predmeta (obvezni ali izbirni) / Course type (compulsory or elective)	obvezni compulsory
Univerzitetna koda predmeta / University course code:	

Predavanja Lectures	Seminar Seminar	Vaje Tutorial			Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
		AV	LV	RV				
30	45				45		60	6

Nosilec predmeta / Course coordinator:	**izr. prof. dr. Veronika Kloboves Prevodnik**

Jeziki /Languages:	**Predavanja / Lectures:**	slovenski/slovene
	Vaje / Tutorial:	slovenski/slovene

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisites for enrolling in the course or for performing study obligations:**

Vsebina (kratek pregled učnega načrta):	**Content (syllabus outline):**
Kardiovaskularni sistem	Cardiavascular system
Respiratorni sistem	Respiratory tract
Digestivni sistem	Alimentary system
Jetra, biliarni sistem in eksokrini pankreas	Liver, biliary system and exocrine pancreas
Endokrini sistem	Endocrine system
Dojka	Breast
Ženski genitalni sitem	Female genital tract

Moški genitalni sistem Ledvice in urinarni trakt Bezgavke, timus in vranica Kri in kostni mozeg Koža Osteoartikularna in mehka tkiva Centralni in periferni živčni sistem	Male genital tract Kidneys and urinary tract Lymph nodes, thymus and spleen Blood and bone marrow Skin Osteoarticular and connective tissues Central and peripheral nervous systems

Temeljni literatura in viri / Reading materials:

TEMELJNA LITERATURA:

- JCW Underwood. General and systematic pathology. 6 Ed.Churchill Livingstone, 2013, 7 Ed. 2019
- Robbins Basic Pathology. 10th Ed. Elsevier Saunders 2019

PRIPOROČENA LITERATURA

- Ivan Damjanov. Pathology secrets. 3 Ed. Elsevier Mosby 2008
- Osnove patologije. (N Zidar, N Gale) 1. izdaja, Katedra za patologijo Medicinske fakultete Univerze v Ljubljani 2011
- Klinično-patološki primeri, vaje iz patologije za študente medicine in dentalne medicine (N Zidar, M Popović), 1. izdaja, Katedra za patologijo Medicinske fakultete Univerze v Ljubljani 2012
- Rosai and Ackerman's Surgical Pathology, 11Ed, Vol 1 and 2, Elsevier 2017
- Rubin's Pathology, Clinicopathologic Foundations of Medicine, 7Ed. Lippincott Williams &Wilkins, 2015

Cilji in kompetence:	Objectives and competences:
Analiza specifičnih bolezni po organskih sistemih.	Analysis of specific diseases according to organ systems.

Predvideni študijski rezultati:	Intended learning outcomes:
Znanje in razumevanje: Razumevanje bazičnih principov v različnih pogojih organizma. Prenesljive/ključne spretnosti in drugi atributi: Rezultati študija so pomembni predvsem za varno in uspešno izvajanje zdravljenja.	Knowledge and Understanding: Understanding of differences of basic principles in different settings Transferable/Key Skills and other attributes: Results of the study are oriented primarily towards the practising medicine safely and effectively.

Metode poučevanja in učenja:	Learning and teaching methods:
Predavanja Histopatološke vaje s klinično-patološkimi primeri	Lectures Histopathology course with clinico-pathologic cases

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
Način (pisni izpit, pisni kolokviji, ustno izpraševanje, naloge, projekt) Kolokviji- test proste izbire Izpit - testi proste izbire (Opravljene vaje in vsi kolokviji so pogoj za pristop k izpitu) ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV: Obvezna 50 % udeležba na predavanjih,		Type (examination, oral, coursework, project): Partial examination – multiple choice questionaire Final exam -multiple choice questionare (Completed lab work and all partial exames are condition for approach to exam) ACADEMIC OBLIGATIONS OF STUDENTS: Obligatory 50% attendance at lectures

Obvezna priprava predhodnih seminarjev za vaje, prisotnost na vajah z diskusijo klinično-patoloških primerov in opravljeni kolokviji iz vaj Opravljena dva kolokvija iz vsebine predavanj.		Obligatory preparation of preceding coursework assignments for laboratory practice, attendance at laboratory practice with a discussion of clinical-pathological cases and passed partial exames from clinical-pathological cases. Two passed partial exames from the topics of systemic pathology.
POGOJI ZA PRISTOP K POSAMEZNEMU PREVERJANJU ZNANJA (IZPITU): Opravljeni seminarji, vaje, kolokviji – 44 klinično-patoloških primerov Opravljena dva kolokvija iz vsebine predavanj	**10% dva kolokvija iz vsebine spredavanj**	REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING: Completed coursework, laboratory practice and partial exames – 44 clinically-pathological cases Completed two partial exames from topics of systemic pathology
OCENJEVANJE: Kolokviji iz vsebine vaj in predavanj- test proste izbire. Ocena kolokvija je pozitivna, če kandidat doseže 55% točk. Če kandidat na dveh kolokvijih iz vsebine predavanj doseže več kot 70% točk se mu ocena poveča za eno oceno. Končni izpit - testi proste izbire Ocene izpita s 50 vprašanji proste izbire so: 26-30 pravilnih odgovorov 6 31-35 7 36-40 8 41-45 9 46-50 10	**90 % izpit**	ASSESMENT: Partial exames-multiple choise tests. The test result is positive when candidate get 55% points. If the candidate get 70% of points in two partial exames covered the topic of lectures, the final exam mark is increased for one grade. Final exam – multiple choice tests. Exam marks with 50 questions of multiple choice are: 26-30 correct answers 6 31-35 correct answers 7 36-40 correct answers 8 41-45 correct answers 9 46-50 correct answers 10

Reference nosilca / Course coordinator's references:

1. BOLTEŽAR, Lučka, KLOBOVES-PREVODNIK, Veronika, POHAR PERME, Maja, GAŠLJEVIĆ, Gorana, JEZERŠEK NOVAKOVIĆ, Barbara. Comparison of the algorithms classifying the ABC and GCB subtypes in diffuse large B-cell lymphoma. *Oncology Letters*, ISSN 1792-1074, 2018, vol. 15, str. 6903-6912, doi: 10.3892/ol.2018.8243. [COBISS.SI-ID 2918523], [JCR, SNIP, WoS do 25. 5. 2018: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 21. 4. 2018: št. citatov (TC): 0, čistih citatov (CI): 0]

2. IVANUŠ, Urška, JERMAN, Tine, REPŠE-FOKTER, Alenka, TAKAČ, Iztok, KLOBOVES-PREVODNIK, Veronika, MARČEC, Mateja, SALOBIR GAJŠEK, Uršula, PAKIŽ, Maja, KOREN, Jakob, HUTTER-ČELIK, Simona, GORNIK-KRAMBERGER, Kristina, KLOPČIČ, Ulrika, KAVALAR, Rajko, ŠRAMEK ZATLER, Simona, GRČAR-KUZMANOV, Biljana, FLORJANČIČ, Mojca, NOLDE, Nataša, NOVAKOVIĆ, Srdjan, POLJAK, Mario, PRIMIC-ŽAKELJ, Maja. Randomised trial of HPV self-sampling among non-attenders in the Slovenian cervical screening programme ZORA : comparing three different screening approaches. *Radiology and oncology*, ISSN 1581-3207. [Online ed.], dec. 2018, vol. 52, no. 4, str. 399-412, ilustr. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6287183/pdf/raon-52-399.pdf, doi: 10.2478/raon-2018-0036. [COBISS.SI-ID 6576959], [JCR, SNIP]

3. KLOPČIČ, Ulrika, LAVRENČAK, Jaka, GAŠLJEVIĆ, Gorana, BRAČKO, Matej, POHAR-MARINŠEK, Živa, KLOBOVES-PREVODNIK, Veronika. Grading of follicular lymphoma in cytological samples. *Cytopathology*, ISSN 0956-5507. [Print

ed.], 2016, vol. 27, iss. 6, str. 390-397, doi: 10.1111/cyt.12319. [COBISS.SI-ID 2251387], [JCR, SNIP, WoS do 13. 1. 2017: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 27. 2. 2016: št. citatov (TC): 0, čistih citatov (CI): 0]

4. PREVC, Ajda, BEDINA ZAVEC, Apolonija, ČEMAŽAR, Maja, KLOBOVES-PREVODNIK, Veronika, SAVARIN, Monika, TODOROVIĆ, Vesna, STROJAN, Primož, SERŠA, Gregor. Bystander effect induced by electroporation is possibly mediated by microvesicles and dependent on pulse amplitude, repetition frequency and cell type. *The journal of membrane biology*, ISSN 0022-2631, Oct. 2016, vol. 249, iss. 5, str. 703-711, doi: 10.1007/s00232-016-9915-0. [COBISS.SI-ID 2389627], [JCR, SNIP, WoS do 4. 11. 2016: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 30. 11. 2018: št. citatov (TC): 2, čistih citatov (CI): 2]

5. MARKELC, Boštjan, SKVARČA, Eva, JESENKO, Tanja, KLOBOVES-PREVODNIK, Veronika, CÖR, Andrej, SERŠA, Gregor, ČEMAŽAR, Maja. Inhibitor of endocytosis impairs gene electrotransfer to mouse muscle in vivo. V: *Bioelectrics*, (Bioelectrochemistry (Amsterdam), ISSN 1567-5394, vol. 103). Amsterdam: Elsevier. 2015, str. 111-119, ilustr., doi: 10.1016/j.bioelechem.2014.08.020. [COBISS.SI-ID 1852795], [JCR, SNIP, WoS do 15. 10. 2018: št. citatov (TC): 14, čistih citatov (CI): 12, Scopus do 18. 10. 2018: št. citatov (TC): 15, čistih citatov (CI): 12]
tipologija 1.08 -> 1.01

6. GAŠLJEVIĆ, Gorana, GRČAR-KUZMANOV, Biljana, GROŠEL, Alenka, SEVER, Matjaž, GAZIĆ, Barbara, KLOBOVES-PREVODNIK, Veronika. Hodgkin´s lymphoma is a rare form of clonal haematological non-mast cell disease in systemic mastocytosis. *Diagnostic pathology*, ISSN 1746-1596. [Online ed.], 2015, vol. 10, no. 1. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4367971/, doi: 10.1186/s13000-015-0235-y. [COBISS.SI-ID 2033531], [JCR, SNIP, WoS do 26. 2. 2017: št. citatov (TC): 1, čistih citatov (CI): 1, Scopus do 1. 9. 2015: št. citatov (TC): 1, čistih citatov (CI): 1]

7. BROŽIČ, Andreja, POHAR-MARINŠEK, Živa, NOVAKOVIĆ, Srdjan, KLOBOVES-PREVODNIK, Veronika. Inconclusive flow cytometric surface light chain results : can cytoplasmic light chains, Bcl-2 expression and PCR clonality analysis improve accuracy of cytological diagnoses in B-cell lymphomas. *Diagnostic pathology*, ISSN 1746-1596. [Online ed.], 2015, vol. 10, št. 191. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4612408/pdf/13000_2015_Article_427.pdf, doi: 10.1186/s13000-015-0427-5. [COBISS.SI-ID 2232955], [JCR, SNIP, WoS do 22. 1. 2016: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 24. 1. 2016: št. citatov (TC): 0, čistih citatov (CI): 0]

8. GAŠLJEVIĆ, Gorana, KLOBOVES-PREVODNIK, Veronika, GAZIĆ, Barbara, VOVK, Marjeta. Coexistent hairy cell leukaemia and hepatosplenic t-cell lymphoma : a case report. *Diagnostic pathology*, ISSN 1746-1596. [Online ed.], 2014, vol. 9, no. 58. http://www.diagnosticpathology.org/content/pdf/1746-1596-9-58.pdf, doi: 10.1186/1746-1596-9-58. [COBISS.SI-ID 1883003], [JCR, SNIP, WoS do 27. 8. 2018: št. citatov (TC): 2, čistih citatov (CI): 2, Scopus do 27. 12. 2018: št. citatov (TC): 4, čistih citatov (CI): 4]

9. ČEMAŽAR, Maja, JESENKO, Tanja, KOSJEK, Tina, MARKELC, Boštjan, SERŠA, Gregor, KLOBOVES-PREVODNIK, Veronika, STROJAN, Primož. Schedule-dependent interaction between vinblastine and irradiation in experimental sarcoma. *Strahlentherapie und Onkologie*, ISSN 0179-7158, Jun. 2014, vol. 190, iss. 7, str. 661-666, doi: 10.1007/s00066-014-0645-x. [COBISS.SI-ID 1730427], [JCR, SNIP, WoS do 7. 7. 2014: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 12. 7. 2014: št. citatov (TC): 0, čistih citatov (CI): 0]

10. URBANČIČ, Mojca, KLOBOVES-PREVODNIK, Veronika, PETROVIČ, Danijel, GLOBOČNIK PETROVIČ, Mojca. A flow cytometric analysis of vitreous inflammatory cells in patients with proliferative diabetic retinopathy. *BioMed research international*, ISSN 2314-6141, 2013, vol. 2013. http://www.hindawi.com/journals/bmri/2013/251528/, doi: 10.1155/2013/251528. [COBISS.SI-ID 30928089], [JCR, SNIP, WoS do 15. 10. 2018: št. citatov (TC): 9, čistih citatov (CI): 9, Scopus do 26. 12. 2018: št. citatov (TC): 9, čistih citatov (CI): 9]

11. KLOBOVES-PREVODNIK, Veronika, LAVRENČAK, Jaka, HORVAT, Mateja, JEZERŠEK NOVAKOVIĆ, Barbara. The predictive significance of CD20 expression in B-cell lymphomas. *BMC cancer*, ISSN 1471-2407, 2011, vol. 6, str. 33 [1-6], doi: 10.1186/1746-1596-6-33. [COBISS.SI-ID 1085563], [JCR, SNIP, WoS do 21. 10. 2018: št. citatov (TC): 19, čistih citatov (CI): 18, Scopus do 24. 10. 2018: št. citatov (TC): 21, čistih citatov (CI): 20]

12. ANSHU, KLOBOVES-PREVODNIK, Veronika, POHAR-MARINŠEK, Živa, et al. Survey of medical training in cytopathology carried out by the journal Cytopathology. *Cytopathology*, ISSN 0956-5507. [Print ed.], 2010, vol. 21, issue 3, str. 147-156, ilustr. http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2303.2010.00761.x/pdf, doi: 10.1111/j.1365-2303.2010.00761.x. [COBISS.SI-ID 516157977], [JCR, SNIP, WoS do 25. 2. 2018: št. citatov (TC): 15, čistih citatov (CI): 15, Scopus do 23. 2. 2018: št. citatov (TC): 18, čistih citatov (CI): 18]

13. HORVAT, Mateja, KLOBOVES-PREVODNIK, Veronika, LAVRENČAK, Jaka, JEZERŠEK NOVAKOVIĆ, Barbara. Predictive significance of the cut-off value of CD20 expression in patients with B-cell lymphoma. *Oncology reports*, ISSN 1021-335X, 2010, vol. 24, no. 4, str. 1101-1107. [COBISS.SI-ID 988283], [JCR, SNIP, WoS do 21. 10. 2018: št. citatov (TC): 11, čistih citatov (CI): 10, Scopus do 23. 11. 2018: št. citatov (TC): 12, čistih citatov (CI): 11]