

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
30	45				45		60	6
		AV	LV	RV				

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):

Kardiovaskularni sistem
Respiratorni sistem
Digestivni sistem
Jetra, biliarni sistem in eksokrini pankreas
Endokrini sistem
Dojka
Ženski genitalni sistem
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

Content (syllabus outline):

Cardiovascular system
Respiratory tract
Alimentary system
Liver, biliary system and exocrine pancreas
Endocrine system
Breast
Female genital tract
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:

Analiza specifičnih bolezni po organskih sistemih.

Objectives and competences:

Analysis of specific diseases according to organ systems.

Predvideni študijski rezultati:

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.

Intended learning outcomes:

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:

Predavanja
Histopatološke vaje s klinično-patološkimi primeri

Learning and teaching methods:

Lectures
Histopathology course with clinico-pathologic cases

Načini ocenjevanja:

Način (pisni izpit, pisni kolokviji, ustno izpraševanje, naloge, projekt)

Kolokviji- test proste izbire

Izpit - testi proste izbire (Opravljenе vaje in vsi kolokviji so pogoj za pristop k izpitu)

Delež (v %) /
Share (in %)

Assessment methods:

Type (examination, oral, coursework, project):

Partial examination – multiple choice questionnaire
Final exam -multiple choice questionnaire
(Completed lab work and all partial exams are condition for approach to exam)

ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV:

Obvezna 50 % udeležba na predavanjih,
Obvezna priprava predhodnih seminarjev za vaje, prisotnost na vajah z diskusijo klinično-patoloških primerov in opravljeni kolokviji iz vaj
Opravljenа dva kolokvija iz vsebine predavanj.

ACADEMIC OBLIGATIONS OF STUDENTS:

Obligatory 50% attendance at lectures
Obligatory preparation of preceding coursework assignments for laboratory practice, attendance at laboratory practice with a discussion of clinical-pathological cases and passed partial exams from clinical-pathological cases.

POGOJI ZA PRISTOP K POSAMEZNEMU PREVERJANJU ZNANJA (IZPITU): Opravljeni seminarji, vaje, kolokviji – 44 klinično-patoloških primerov Opravljen dva kolokvija iz vsebine predavanj 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: <table><tr><td>26-30 pravih odgovorov</td><td>6</td></tr><tr><td>31-35</td><td>7</td></tr><tr><td>36-40</td><td>8</td></tr><tr><td>41-45</td><td>9</td></tr><tr><td>46-50</td><td>10</td></tr></table>	26-30 pravih odgovorov	6	31-35	7	36-40	8	41-45	9	46-50	10	10% dva kolokvija iz vsebine predavanj 90 % izpit	Two passed partial exams from the topics of systemic pathology. REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING: Completed coursework, laboratory practice and partial exams – 44 clinically-pathological cases Completed two partial exams from topics of systemic pathology ASSESSMENT: Partial exams-multiple choice tests. The test result is positive when candidate get 55% points. If the candidate get 70% of points in two partial exams 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: <table><tr><td>26-30 correct answers</td><td>6</td></tr><tr><td>31-35 correct answers</td><td>7</td></tr><tr><td>36-40 correct answers</td><td>8</td></tr><tr><td>41-45 correct answers</td><td>9</td></tr><tr><td>46-50 correct answers</td><td>10</td></tr></table>	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
26-30 pravih odgovorov	6																					
31-35	7																					
36-40	8																					
41-45	9																					
46-50	10																					
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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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](https://doi.org/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]