2025/26

Univerza v Mariboru
Medicinska fakulteta

UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION	
Predmet:	**Splošna patologija**
Subject Title:	**General Pathology**

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Dentalna medicina/Dental medicine 2. stopnja/2nd Degree		**2**	**4.**

Vrsta predmeta / Course type	Obvezni/Obligatory
Univerzitetna koda predmeta / University subject code:	

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Labor work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30	**35**		**10**		**45**	**4**

Nosilec predmeta / Lecturer:	izr. prof. dr. Veronika Kloboves Prevodnik

Jeziki / Languages:	**Predavanja / Lecture:**	Slovenski/slovenian
	Vaje / Tutorial:	Slovenski/slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisits:**
POGOJI ZA PRISTOP K POSAMEZNEMU PREVERJANJU ZNANJA: Opravljene vaje in seminarji ter pozitivna ocena na 4 kolokvijih. Za pozitivno oceno kolokvija je potrebno zbrati najmanj 60% točk.	REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING: Completed coursework, seminars and 4 midterm exams (60% points per exam).

Vsebina:	**Content (Syllabus outline):**
Uvod v patologijo Značilnosti, klasifikacije, incidenca bolezni Vzroki bolezni (genetski, okolje) Diagnostična patologija v klinični praksi Motnje rasti, diferenciacije in morfogeneze Reakcije na celično okvaro Motnje metabolizma in homeostaze Ishemija, infarkt, šok Imunologija in imunopatologija Vnetje Karcinogeneza in neoplazija Staranje in smrt	Introduction to pathology Characteristics, classification, and incidence of disease Genetic and environmental causes of disease Diagnostic pathology in clinical practice Disorders of growth, differentiation, and morphogenesis Response to cellular injury Disorders of metabolism and homeostasis Ischaemia, infarction, and shock Immunology and immunopathology Inflammation Carcinogenesis and neoplasia Ageing and death

Temeljni literatura in viri / Textbooks:

TEMELJNA LITERATURA:

Underwood's pathology : a clinical approach / edited by Simon S. Cross. 7th ed., Edinburgh [etc.], 2019.

- Robbins Basic Pathology. 10th Ed. Elsevier Saunders 2019
- Soame' and Southam's Oral Pathology/edited by Max Robbinson, Keith Hunter, Michael Pemberton, Philip Sloan. 5th edition Oxford Univeristy Press2018,
- Oral Pathology Clinical Pathologic Correlations?edited by Joseph A. Regezi, James J Sciubba, Richard C.K. Jordan. 7th edition, Elisver, 2017

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:	**Objectives:**
Študent spozna klasifikacije bolezni in se seznani z njihovimi vzroki in s pomenom diagnostične patologije v klinični praksi. Predmet temelji na klasični patologiji in na napredku celične in molekularne biologije. Študent spozna ob študiju mehanizmov bolezni procese pomembnih bolezenskih kategorij	The student is introduced to the classification of diseases, their causes, and the importance of diagnostic pathology in clinical practice. The course is based on classical pathology as well as on the current knowledge of cellular and molecular biology. The student learns basic disease mechanisms which are fundamental to understand specific diseases.
Predvideni študijski rezultati: Študent bo spoznal osnovne morfološke in funkcijske značilnosti bolezni.	**Intended learning outcomes:** Basic understanding of morphological and functional characteristics of diseases.

Znanje in razumevanje: Pripravljen bo na študij specifičnih patoloških procesov v različnih organih in organskih sistemih. **Prenesljive/ključne spretnosti in drugi atributi:** Rezultati študija so pomembni predvsem za varno in uspešno izvajanje zdravljenja.	**Knowledge and Understanding:** The student is prepared for study of specific pathological processes in different organs and systems. **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 Seminarji Vaje	Lectures Seminars Exercises

Načini ocenjevanja:	**Delež (v %) / Weight (in %)**	**Assessment:**
Način (pisni izpit, kolokviji, ustno izpraševanje, naloge, projekt) Pisni izpit OPOMBA ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV •Obvezna 50 % udeležba na predavanjih iz splošne patologije in obvezna prisotnost na predavanjih in seminarjih iz specialne dentalne patologije •Obvezna priprava predhodnih seminarjev •Ovezna prisotnost na 6 od 9 seminarjih •Obvezna prisotnost na vajah z diskusijo klinično-patoloških primerov •Opravljeni 4 koloviji iz vsebin vaj in predavanj OCENJEVANJE: **Pisni izpit** - testi proste izbire Ocene izpita s 50 vprašanji proste izbire so: 26-30 pravilnih odgovorov 6 31-35 pravilnih odgovorov 7 36-40 pravilnih odgovorov 8 41-45 pravilnih odgovorov 9 46-50 pravilnih odgovorov 10	 100%	Type (examination, midterm exams, oral, coursework, projects) Written exam NOTES ACADEMIC OBLIGATIONS OF STUDENTS •Obligatory 50% attendance at lectures on genral pathology and 100% presence at lectures and seminars on special dental pathology •Obligatory preparation of previous coursework •Obligatory attendance at 6 out of 9 courseworks •Obligatory attendance at courses with discussion of clinically-pathological cases •Four passed midterm exames from the topics of systemic pathology. ASSESMENT: **Written 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

Če kandidat na vsakem od štirih kolokvijih doseže več kot 70% točk se mu ocena poveča za eno oceno.		If the candidate get 70% of points in the each four midterm exames covered the topic of coures work and lectures, the final exam mark is increased for one grade.

Reference nosilca / Lecturer's references: KSENIJA JURINOVIĆ (Ex LUČIN)

1. MICESKA, Simona, ŠKOF, Erik, NOVAKOVIĆ, Srdjan, STEGEL, Vida, JERIČEVIĆ, Anja, GRČAR-KUZMANOV, Biljana, SMRKOLJ, Špela, CVJETIČANIN, Branko, BEBAR, Sonja, GLOBOČNIK KUKOVICA, Marta, KLOBOVES-PREVODNIK, Veronika. Cytopathological assessment is an accurate method for identifying immunophenotypic features and BRCA1/2 mutations of high-grade serous carcinoma from ascites. *Cancer cytopathology*. [Print ed.]. Mar. 2023, vol. 131, iss. 3, str. 188-197, ilustr. ISSN 1934-662X. https://acsjournals.onlinelibrary.wiley.com/doi/epdf/10.1002/cncy.22664, DOI: 10.1002/cncy.22664. [COBISS.SI-ID 131704067]

2. GAŠLJEVIĆ, Gorana, BOLTEŽAR, Lučka, NOVAKOVIĆ, Srdjan, ŠETRAJČIČ DRAGOŠ, Vita, JEZERŠEK NOVAKOVIĆ, Barbara, KLOBOVES-PREVODNIK, Veronika. CD56-positive diffuse large B-cell lymphoma : comprehensive analysis of clinical, pathological, and molecular characteristics with literature review. *Radiology and oncology*. [Print ed.]. Jun. 2023, vol. 57, no. 2, str. 249-256. ISSN 1318-2099. DOI: 10.2478/raon-2023-0016. [COBISS.SI-ID 147497731]

3. GRAŠIČ-KUHAR, Cvetka, JERNEJ, Silvester, MENCINGER, Marina, OVČARIČEK, Tanja, ČEMAŽAR, Maja, MICESKA, Simona, MODIC, Živa, KUHAR, Anamarija, JESENKO, Tanja, KLOBOVES-PREVODNIK, Veronika. Association of circulating tumor cells, megakaryocytes and a high immune-inflammatory environment in metastatic breast cancer. *Cancers*. 2023, vol. 15, no. 13, 3397-1-3397-18. ISSN 2072-6694. https://pubmed.ncbi.nlm.nih.gov/37444507/, DOI: 10.3390/cancers15133397. [COBISS.SI-ID 160457987]

4. KLOBOVES-PREVODNIK, Veronika, GAŠLJEVIĆ, Gorana. Cytokeratin and CD56 aberrant co-expression in diffuse large B-cell lymphoma, NOS misinterpreted as metastatic neuroendocrine carcinoma by FNAC. *Cytopathology*. [Print ed.]. 2022, vol. , no. , str. [1-4]. ISSN 0956-5507. DOI: 10.1111/cyt.13190. [COBISS.SI-ID 134515971] MICESKA, Simona, ŠKOF, Erik, GAŠLJEVIĆ, Gorana, KLOBOVES-PREVODNIK, Veronika. Morphological and immunocytochemical characterization of tumor spheroids in ascites from high-grade serous carcinoma. *Cells*. 2023, vol. 12, no. 19, [article no.] 2390, str. 1-14. ISSN 2073-4409. https://www.mdpi.com/2073-4409/12/19/2390, Digitalna knjižnica Univerze v Mariboru – DKUM, DOI: 10.3390/cells12192390. [COBISS.SI-ID 167619075]

5. MICESKA, Simona, ŠKOF, Erik, BUČEK, Simon, GRAŠIČ-KUHAR, Cvetka, GAŠLJEVIĆ, Gorana, SMRKOLJ, Špela, KLOBOVES-PREVODNIK, Veronika. The prognostic significance of tumor-immune microenvironment in ascites of patients with high-grade serous carcinoma. *Radiology and oncology*. [Print ed.]. Dec. 2023, vol. 57, no. 4, str. 493-506, x. ISSN 1318-2099. https://pubmed.ncbi.nlm.nih.gov/38038414/, DiRROS - Digitalni repozitorij raziskovalnih organizacij Slovenije, Digitalna knjižnica Slovenije - dLib.si, DOI: 10.2478/raon-2023-0046. [COBISS.SI-ID 174791427]

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7. DOMA, Andrej, ZEVNIK, Katarina, STUDEN, Andrej, KLOBOVES-PREVODNIK, Veronika, GAŠLJEVIĆ, Gorana, JEZERŠEK NOVAKOVIĆ, Barbara. Detection performance and prognostic value of initial bone marrow involvement in diffuse large B-cell lymphoma : a single centre 18F-FDG PET/CT and bone marrow biopsy evaluation study. *Radiology and oncology*. [Print ed.]. Mar. 2024, vol. 58, no. 1, str. 15-22, ii. ISSN 1318-2099. Digitalna knjižnica Slovenije - dLib.si, DOI: 10.2478/raon-2024-0004. [COBISS.SI-ID 189576963]

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9. PRELOG, Tomaž, BUČEK, Simon, BROŽIČ, Andreja, PETERLIN, Jakob, KAVČIČ, Marko, OMERZEL, Maša, MARKELC, Boštjan, JESENKO, Tanja, KLOBOVES-PREVODNIK, Veronika. The influence of cytotoxic drugs on the immunophenotype of blast cells in paediatric B precursor acute lymphoblastic leukaemia. *Radiology and oncology*. [Print ed.]. Mar. 2024, vol. 58, no. 1, str. 133-144, xiii. ISSN 1318-2099. Digitalna knjižnica Slovenije - dLib.si, DOI: 10.2478/raon-2024-0006. [COBISS.SI-ID 187712771]

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