

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 /
Predavanja / Lecture: Slovenski/slovenian

Languages:
Vaje / Tutorial: Slovenski/slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih **Prerequisites:**
obveznosti:
Vsebina:

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

Content (Syllabus outline):

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 Robinson, 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 Popovič), 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:

Študent spozna klasifikacije bolezni in se seznanj 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

Predvideni študijski rezultati:

Študent bo spoznal osnovne morfološke in funkcijske značilnosti bolezni.

Objectives:

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.

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:

Predavanja
Seminarji
Vaje

Learning and teaching methods:

Lectures
Seminars
Exercises

Delež (v %) /**Weight (in %)****Načini ocenjevanja:****Assessment:**

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

Kolokviji - test proste izbire

20%

Pisni ispit

30%

Ustni ispit

50%

ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV

- Obvezna 50 % udeležba na predavanjih
- Obvezna priprava seminarjev
- Obvezna 80% prisotnost na seminarjih in vajah
- Doseženih vsaj 50% na vseh kolokvijih za pristop k pisnemu ispitu
- Doseženih vsaj 50% na pisnem ispitu za pristop k ustnemu ispitu

Type (examination, oral, coursework, projects) Colloquia – multiple choice tests
Written exam
Oral exam

ACADEMIC OBLIGATIONS OF STUDENTS

- Obligatory 50% attendance at lectures
- Obligatory preparation of previous coursework
- Obligatory 80% attendance at seminars, exercises, and autopsy
- At least 50% score at all colloquia to access written exam
- At least 50% score from written exam to access oral examination

Reference nosilca / Lecturer's references: KSENIIA 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](https://doi.org/10.1002/cncy.22664). [COBISS.SI-ID [131704067](https://www.cobiss.si/record/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](https://doi.org/10.2478/raon-2023-0016). [COBISS.SI-ID [147497731](https://www.cobiss.si/record/147497731)]
3. GRAŠIČ-KUHAR, Cvetka, JERNEJ, Silvester, MENCINGER, Marina, OVČARIČEK, Tanja, ČEMAŽAR, Maja, MICESKA, Simona, MODIČ, 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](https://doi.org/10.3390/cancers15133397). [COBISS.SI-ID [160457987](https://www.cobiss.si/record/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](https://doi.org/10.1111/cyt.13190). [COBISS.SI-ID [134515971](https://www.cobiss.si/record/134515971)]
5. JESENKO, Tanja, MODIČ, Živa, GRAŠIČ-KUHAR, Cvetka, ČEMAŽAR, Maja, MATKOVIČ, Urška, MICESKA, Simona, VARL, Jerneja, KUHAR, Anamarija, KLOBOVES-PREVODNIK, Veronika. Morphological features of breast cancer circulating tumor cells in blood after physical and biological type of isolation. *Radiology and oncology*. [Print ed.]. Sep. 2021, vol. 55, no. 3, str. 292-304, vi, ilustr. ISSN 1318-2099. <https://www.sciendo.com/article/10.2478/raon-2021-0033>, <http://www.dlib.si/details/URN:NBN:SI:doc-M3Q8A6CX>, DOI: [10.2478/raon-2021-0033](https://doi.org/10.2478/raon-2021-0033). [COBISS.SI-ID [75204867](https://www.cobiss.si/record/75204867)]
6. IVANUŠ, Urška, JERMAN, Tine, GAŠPER, Urška, MEGLIČ, Leon, FLORJANČIČ, Mojca, STROJAN FLEŽAR, Margareta, PREMRU-SRŠEN, Tanja, SMRKOLJ, Špela, PAKIŽ, Maja, PRIMIČ-ŽAKELJ, Maja, KLOBOVES-PREVODNIK, Veronika, POGAČNIK, Ana, MATE, Tanja, GOBEC, Mojca, et al. The impact of the COVID-19 pandemic on organised cervical cancer screening : the first results of the Slovenian cervical screening programme and registry. *The Lancet regional health. Europe*. 2021, vol. 5, str. 1-9. ISSN 2666-7762. DOI: [10.1016/j.lanepe.2021.100101](https://doi.org/10.1016/j.lanepe.2021.100101). [COBISS.SI-ID [59539715](https://www.cobiss.si/record/59539715)]
7. MAURER-GRANOFŠZKY, Margarita, SCHUMICH, Angela, BULDINI, Barbara, GAIPA, Guiseppe, KAPPELMAYER, Janos, BATINIČ, Drago, DUBRAVČIČ, Klara, KLOBOVES-PREVODNIK, Veronika, SLAVKOVIČ, Bojana, DWORZAK, Michael N., et al. An extensive quality control and quality assurance (QC/QA) program significantly improves inter-laboratory concordance rates of flow-cytometric minimal residual disease assessment in acute lymphoblastic leukemia : an I-BFM-FLOW-network report. *Cancers*. 2021, vol. 13, str. 6148-1-6146-13. ISSN 2072-6694. <https://pubmed.ncbi.nlm.nih.gov/34885257/>, DOI: [10.3390/cancers13236148](https://doi.org/10.3390/cancers13236148). [COBISS.SI-ID [89091587](https://www.cobiss.si/record/89091587)]
8. LOŽAR, Taja, JESENKO, Tanja, KLOBOVES-PREVODNIK, Veronika, ČEMAŽAR, Maja, HOSTA, Violeta, JERIČEVIČ, Anja, NOLDE, Nataša, GRAŠIČ-KUHAR, Cvetka. Preclinical and clinical evaluation of magnetic-activated cell separation technology for CTC isolation in breast cancer. *Frontiers in oncology*. Sept. 2020, vol. 10, str. 1-10, ilustr. ISSN 2234-943X. [https://www.frontiersin.org/articles/10.3389/fonc.2020.554554/full?utm_source=Email_to_authors&utm_medium=Email&utm_content=T1_11.5e1_author&utm_campaign=Email_publication&field=journalName=Frontiers in Oncology&id=554554](https://www.frontiersin.org/articles/10.3389/fonc.2020.554554/full?utm_source=Email_to_authors&utm_medium=Email&utm_content=T1_11.5e1_author&utm_campaign=Email_publication&field=journalName=Frontiers%20in%20Oncology&id=554554), DOI: [10.3389/fonc.2020.554554](https://doi.org/10.3389/fonc.2020.554554). [COBISS.SI-ID [27891203](https://www.cobiss.si/record/27891203)]
9. GAZIČ, Barbara, KLOBOVES-PREVODNIK, Veronika. Histopatološke in citopatološke značilnosti raka dojke. V: TAKAČ, Iztok (ur.), ARKO, Darja. *Ginekološka onkologija*. 1. izd. Maribor: Univerzitetna založba Univerze, 2020. Str. 789-800. ISBN 978-961-286-330-2. [COBISS.SI-ID [23045379](https://www.cobiss.si/record/23045379)]
10. KLOBOVES-PREVODNIK, Veronika, POHAR-MARINŠEK, Živa, ZALAR, Janja, ROZINA, Hermina, KOTNIK, Nika, JERMAN, Tine, VARL, Jerneja, IVANUŠ, Urška. Evaluation of the training program for p16/ Ki-67 dual immunocytochemical staining interpretation for laboratory staff without experience in cervical cytology and immunocytochemistry. *Radiology and oncology*. [Print ed.]. Jun. 2020, vol. 54, no. 2, str. 201-208, viii,

ilustr. ISSN 1318-2099. <https://content.sciendo.com/view/journals/raon/54/2/article-p201.xml>, <http://www.dlib.si/details/URN:NBN:SI:doc-REHARMVW>, DOI: [10.2478/raon-2020-0018](https://doi.org/10.2478/raon-2020-0018). [COBISS.SI-ID [3514747](https://www.cobiss.si/id/3514747)]

11. GAŠLJEVIĆ, Gorana, GRAT, Mateja, KLOBOVES-PREVODNIK, Veronika, GRČAR-KUZMANOV, Biljana, GAZIĆ, Barbara, LOVREČIĆ, Luca, PODGORNIK, Helena. Chronic lymphocytic leukemia with divergent Richter's transformation into a clonally related classical Hodgkin's and plasmablastic lymphoma : a case report. *Case reports in oncology*. 2020, vol. 13, no. 1, str. 120-129. ISSN 1662-6575. <https://www.karger.com/Article/FullText/505683>, DOI: [10.1159/000505683](https://doi.org/10.1159/000505683). [COBISS.SI-ID [7083180](https://www.cobiss.si/id/7083180)]