

**UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION**

Predmet:	Patologija I (splošna patologija)
Subject Title:	Pathology I (general pathology)

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Splošna medicina General medicine - EMŠP		2	4

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	27		3		30	3

Nosilec predmeta / Lecturer:

Red. prof. dr. Rastko Golouh

Jeziki /

Predavanja / Lecture:

Slovenski/slovene

Languages:

Vaje / Tutorial:

Slovenski/slovene

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Prerequisites:

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:

- JCW Underwood. General and systematic pathology. Fourth ed. Churchill Livingstone 2004, Fifth ed. 2009, Sixth ed. 2013
- Robbins and Cotran. Pathologic basis of disease. Seventh ed. Elsevier Saunders 2005
- Kumar, Abbas, Aster. Robbins Basic Pathology Ninth ed. Elsevier 2013
- Ivan Damjanov. Pathology secrets. Second ed. Elsevier Mosby 2005
- Patologija. Izbrana poglavja iz patologije z navodili za vaje. (A Cerar, B Luzar, T Rott, N Zidar) 3. izdaja, 2006
- Rosai and Ackerman's Surgical Pathology. Mosby, Ninth ed. 2004, Tenth ed. 2011
- R Rubin, DS Strayer. Rubin's Pathology, Sixth ed. Wolters Kluwer/Lippincott 2012
- The New England Journal of Medicine (www.nejm.org)

Cilji:

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

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
Obukcijske vaje

Learning and teaching methods:

Lectures
Seminars
Autopsy course

Delež (v %) / Weight (in %)		Assessment:
Načini ocenjevanja:		
Način (pisni izpit, ustno izpraševanje, naloge, projekt)		Type (examination, oral, coursework, project\$)
Opravljeni kolokviji iz seminarjev	10 %	Partial exam after seminars and
Končni izpit	90 %	Final examination
ŠTUDIJSKE OBVEZNOSTI ŠTUDENTOV		ACADEMIC OBLIGATIONS OF STUDENTS
•Obvezna 50 % udeležba na predavanjih		Obligatory 50% attendance at lectures
•Obvezna priprava predhodnih seminarjev		Obligatory preparation of previous coursework
•Obvezna prisotnost na obdukcijskih vajah z diskusijo klinično-patoloških primerov		Obligatory attendance at autopsy with discussion of clinically-pathological cases
Pogoji za pristop k posameznemu preverjanju znanja:		REQUIREMENTS FOR ACCESS TO INDIVIDUAL KNOWLEDGE CHECKING:
Opravljeni seminarji in seminarski kolokviji		Completed coursework and coursework partial exams
Končni izpit - testi proste izbire		Final exam – multiple choice tests
Ocene izpita s 50 vprašanji proste izbire so:		Exam marks with 50 questions of multiple choice are:
26-30 pravih odgovorov 6		26-30 correct answers 6
31-35 7		31-35 correct answers 7
36-40 8		36-40 correct answers 8
41-45 9		41-45 correct answers 9
46-50 10		46-50 correct answers 10

Reference nosilca / Lecturer's references:

VIALE, Giuseppe, GOLOUH, Rastko, LINDTNER, Jurij, ERŽEN, Darja, MAJDIČ, Elga, ŠTABUC, Borut, PLESNIČAR, Andrej, LAMOVEC, Janez, JANČAR, Janez, VRHOVEC, Ivan, KRAMBERGER, Marta, et al. Adverse prognostic value of peritumoral vascular invasion : is it abrogated by adequate endocrine adjuvant therapy? Results from two International Breast Cancer Study Group randomized trials of chemoendocrine adjuvant therapy for early breast

cancer. *Annals of oncology*, ISSN 0923-7534, Feb. 2010, vol. 21, issue 2, str. 245-254, doi: 10.1093/annonc/mdp317. [COBISS.SI-ID 516211737], [JCR, SNIP, WoS do 31. 12. 2013: št. citatov (TC): 7, čistih citatov (CI): 7, normirano št. čistih citatov (NC): 2, Scopus do 19. 12. 2013: št. citatov (TC): 8, čistih citatov (CI): 8, normirano št. čistih citatov (NC): 2]

THÜRLIMANN, Beat, PRICE, Karen, GELBER, Richard D., LINDTNER, Jurij, ERŽEN, Darja, ČUFER, Tanja, ČERVEK, Jožica, CERAR, Olga, ZAKOTNIK, Branko, MAJDIČ, Elga, GOLOUH, Rastko, LAMOVEC, Janez, JANČAR, Janez, VRHOVEC, Ivan, KRAMBERGER, Marta, et al. Is chemotherapy necessary for premenopausal women with lower-risk node-positive, endocrine responsive breast cancer? 10-year update of International Breast Cancer Study Group Trial 11-93. *Breast cancer research and treatment*, ISSN 1573-7217, 2009, letn. 113, št. 1, str. 137-144, doi: 10.1007/s10549-008-9912-9. [COBISS.SI-ID 25795801], [SNIP, WoS do 18. 11. 2013: št. citatov (TC): 24, čistih citatov (CI): 24, normirano št. čistih citatov (NC): 24, Scopus do 24. 9. 2013: št. citatov (TC): 28, čistih citatov (CI): 28, normirano št. čistih citatov (NC): 28]

ZHANG, Yi, ČUFER, Tanja, GOLOUH, Rastko, et al. The 76-gene signature defines high-risk patients that benefit from adjuvant tamoxifen therapy. *Breast cancer research and treatment*, ISSN 1573-7217, 2009, vol. 116, no. 2, str. 303-309, doi: 10.1007/s10549-008-0183-2. [COBISS.SI-ID 25816537], [SNIP, WoS do 2. 12. 2013: št. citatov (TC): 33, čistih citatov (CI): 33, normirano št. čistih citatov (NC): 33, Scopus do 3. 12. 2013: št. citatov (TC): 46, čistih citatov (CI): 46, normirano št. čistih citatov (NC): 46]

KAVALAR, Rajko, POHAR-MARINŠEK, Živa, JEREB, Berta, ČAGRAN, Branka, GOLOUH, Rastko. Prognostic value of immunohistochemistry in the Ewing's sarcoma family of tumors. *Medical Science Monitor*, ISSN 1234-1010, 2009, vol. 15, no. 8, str. CR442-CR452. [COBISS.SI-ID 3370303], [JCR, SNIP, WoS do 25. 6. 2013: št. citatov (TC): 3, čistih citatov (CI): 3, normirano št. čistih citatov (NC): 1, Scopus do 29. 5. 2013: št. citatov (TC): 6, čistih citatov (CI): 6, normirano št. čistih citatov (NC): 2]

PLANINC, Ana, REPŠE-FOKTER, Alenka, GOLOUH, Rastko. Sledenje žensk z atipičnimi žleznimi celicami v brisih materničnega vratu = Follow-up of females with atypical glandular cells on Pap smears. *Acta medico-biotechnica*, ISSN 1855-5640, 2012, vol. 5, [no.] 2, str. 33-39, ilustr. [COBISS.SI-ID 512239416]