UNIVERSITY OF NOVI SAD FACULTY OF MEDICINE



Study program: Integrated Academic Studies in Dental Medicine			
Course title: General and Special Medical Cytology			
<b>Teacher:</b> Dušan M. Lalošević, Matilda A. Đolai, Ivan Đ. Čapo, Bojana M. Andrejić Višnjić, Jelena R. Ilić Sabo, Jelena P. Amidžić, Milana D. Panjković, Silvana M. Andrić, Tanja S. Kostić			
Course status: elective			
ECTS Credits: 3			
Condition: Biology with Human Genetics			
Course aim:			
	rough understanding of cell biology and	d interpretation of clinical cytolog	ical
Acquiring knowledge and skills necessary for a thorough understanding of cell biology and interpretation of clinical cytological analyses.			
Expected outcome of the course:			
<b>Knowledge:</b> The student should know the basic of	ommon cytological features as well as	the characteristics of enithelial	and
connective tissue cells with special reference to their microscopic identification.			
<b>Skills:</b> The student should be able to recognize the normal structure of blood cells at the level of light microscopy, to identify normal			
Pap smear, as well as the cellular composition of different types of cytological specimens.			
Course description			
Theoretical education			
1. General cytology, history of cellular theory			
<ol> <li>Eukaryotic cell, principles of their structure, cell membrane</li> </ol>			
3. Membrane and non-membrane organelles, inclusions			
4. Cellular signaling			
5. Mitosis and meiosis, ultrastructure of nucleus and cell cycle, nuclear-cytoplasmic ratio			
6. Cell movement and migration, cytoskeleton, flagella			
7. Cell cultures and tissues			
8. Epithelial cells, microscopic structure			
9. Papanicolaou test and Practical Clinical Cytology			
10. Connective tissue cells, cytology of blood and hematopoiesis			
11. Cytopathology			
12. Recapitulation and preparation for the exam			
Practical education			
Microscopic exercises, cell culture, swabs and smears, interpretation of stained slides.			
Literature			
Compulsory			
1. Anđelković Z, Somer Lj, Matavulj M, Lačković V, L	alošević D, Nikolić I, Milosavljević Z, Danil	ović V. Ćelija i tkiva. Niš: Bonafides;	
2002.			
2. Grozdanović-Radovanović J. Citologija. Beograd: Zavod za udžbenike; 2000. 397 p.			
3. Andrić S, Kostić T. Mehanizmi ćelijske komunikaci	ije. Skripta za studente. Novi Sad: WUS Au	ustria; 2007.	
Additional			
1. Krstić VR. Ultrastructure of the mammalian cell: a	an atlas. London: Springer; 1979. 376 p.		
2. Papanicolaou G. Atlas of exfoliative cytology. Can	nbridge: Harvard University Press; 1963.		
Number of active classes	Theoretical classes: 30	Практична настава: 15	
Teaching methods:			
Lectures and Practice			
Student activity assessment (maximally 100 points)			
Pre-exam activities	points Final	exam points	
Lectures	10 Writte	en 70	
Practices	- Oral		
Colloquium	20		
Essay			
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