Course Unit	Cytopathology I			Field of study	Biomedical Laboratory Sciences		
Bachelor in	Biomedical Laboratory Sciences			School	School of Health		
Academic Year	2021/2022	Year of study	3	Level	1-3	ECTS credits	5.0
Type	Semestral	Semester	1	Code	9995-550-3102-00-21		

Workload (hours)	135	Contact hours	T	TP	PL	TC	S	E	OT	O
			-	22,5	30	-	-	-	7,5	-

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s): Ana da Conceicao Saraiva e Sousa Tavares

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:
1. Differentiate the different technical procedures for the different types of cytological material;
2. Identify cellular patterns in Respiratory and Urinary cytopathology;
3. Perform the screening with interpretation and elaboration of the respective report in respiratory and urinary citopathology;

Prerequisites

Before the course unit the learner is expected to be able to:
Knowledge of Histology

Course contents

Introduction to technical procedures in routine cytology and cytological colorings. The optical microscope Respiratory Cytology Urinary and their caracteristics. Cytology Identification of cellular patterns in respiratory and urinary cytopathology. Elaboration of reports of respiratory and urinary cytopathology.

Course contents (extended version)

1. RESPIRATORY CYTOLOGY
   - Normal cytology
   - Benign, inflammatory and infectious changes
   - Microbiology
   - Malignant neoplasms
   - Therapy changes
2. URINARY CYTOLOGY
   - Normal cytology
   - Inflammatory and infectious changes
   - Crystals
   - Malignant neoplasms
   - Therapy changes
3. Identification of cellular patterns in respiratory and urinary cytopathology.
4. Elaboration of reports of respiratory and urinary cytopathology.
5. Introduction to technical procedures in routine cytology and colorations.
6. The optical microscope

Recommended reading

1. Mckee, G. T. (1997) Cytopathology. London: Mosby-Wolfe
2. Koss, L. G. (1992) Diagnostic Cytology and its histopathologic bases. 4th Ed. Philadelphia: J. B. Lippincott. Vol. I e II
3. Cibas, E. S. ; Ducatman, B. S. (2003) Cytology : diagnostic principles and clinical correlates. 2th Ed. Edinburgh: Saunders
4. Gray, W. ; McKee, G, T. (2003) Diagnostic cytopathology. 2th Ed. Oxford: Churchill Livingstone

Teaching and learning methods

Selected expository, interrogative and active methods will be used, taking into account the characteristics of the area under examination and the different constraints of the classroom. In the practical classes, the demonstrative method of identifying images will be used, thereby fostering peer learning and the capacity for self-critism and self-learning.

Assessment methods

1. Written Test(40%)+ Practical(50%)+article(10%) - (Regular, Student Worker) (Final)
   - Intermediate Written Test - 40% (Evaluation of the theoretical component - minimum grade of 8. 5 values)
   - Intermediate Written Test - 50% (Evaluation of the Practice component - minimum grade of 8. 5 values)
   - Work Discussion - 10% (Scientific Article Discussion)
2. Final Exam =50%Written test+50%Practical exam - (Regular, Student Worker) (Supplementary, Special)
   - Final Written Exam - 100% (Theoretical component50%,practical component50%. Minimum mark 8. 5value in each of the components)

Language of instruction

1. Portuguese
2. Portuguese, with additional English support for foreign students.

Electronic validation

Ana da Conceicao Saraiva e Sousa Tavares	Josiana Adelaide Vaz	Ana Maria Nunes Português Galvão	Adília Maria Pires da Silva Fernandes
21-06-2022	21-06-2022	23-06-2022	24-06-2022

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