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| Course Unit | Cytopathology II | | Field of study | Biomedical Laboratory Sciences | |
| Bachelor in | Biomedical Laboratory Sciences | | School | School of Health | |
| Academic Year | 2022/2023 | Year of study | 3 | Level | 1-3 |
| Type | Semestral | Semester | 2 | ECTS credits | 5.0 |
| Code | 9995-550-3202-00-22 | | | | |
| Workload (hours) | 135 | Contact hours | T - | TP 22,5 | PL 30 |
| | | | TC - | S - | E - |
| | | | OT 7,5 | O - | |

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, Rute Alexandra Araujo da Costa Dominguez

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 Gynecologic Cytology and Body Fluids of Cytology
3. Perform the screening with interpretation and of the respective report

Prerequisites

Not applicable

Course contents

Introduction to technical procedures in routine cytology. Gynecological cytology. Cytology of serous cavities fluids. Introduction to the technique of collecting fluid from serous cavities Identification of cellular patterns in Gynecologic Cytology and Body Fluids of Cytology Elaborate reports of Gynecologic Cytology and Body Fluids of Cytology

Course contents (extended version)

1. GYNECOLOGIC CYTOLOGY
 - Negative cytology for malignancy: cellular components, artefacts and contaminants
 - Reactive and inflammatory changes
 - Microbiology
 - Squamous intraepithelial lesions: pathogenesis of cervical neoplasia
 - Invasive Squamous Cell Carcinoma in cervix
 - Glandular neoplasia
 - Other tumors of the cervix: general notions
 - Screening programs and molecular biology associated to gynecological cytology
 - Preparation of a report according to the Bethesda System
 - History of Cytology
2. CYTOLOGY OF SEROUS CAVITY FLUID
 - Negative cytology for malignancy: cellular components
 - Benign pathologies of the cavities. Inflammatory and infectious processes.
 - Primary tumors of the serous cavities: Mesothelioma and primary lymphoma
 - Metastatic tumors and lymphomas
 - Use of immunocytochemistry and cytochemistry in differential diagnosis
3. CYTOLOGY LABORATORY
 - General notions about the daily routine of the laboratory
 - Protocols associated with gynecological and non-gynecological cytology
 - Cyto bloc as a complementary technique

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
5. Kurman, R. J. ; Solomon, D. (1994). THE BETHESDA SYSTEM for reporting cervical/vaginal cytologic diagnoses. New York, Inc. : Springer-Verlag

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-criticism and self-learning.

Assessment methods

1. Theoretica test (50%)+practical (50%) - (Regular, Student Worker) (Final)
 - Intermediate Written Test - 50% (Evaluation of the theoretical component - minimum mark of 8. 5 values)
 - Intermediate Written Test - 50% (Assessment of practical component - minimum mark of 8. 5 values)
2. Rating 2 - (Regular, Student Worker) (Supplementary, Special)
 - Final Written Exam - 100% (theoretical component 50%; practical component 50%. Minimum mark 8. 5 value in each components)

Language of instruction

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

Electronic validation

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| Ana da Conceicao Saraiva e Sousa Tavares, Rute Alexandra Araujo da Costa Dominguez | Josiana Adelaide Vaz | Juliana Almeida de Souza | Adília Maria Pires da Silva Fernandes |
| 21-03-2023 | 21-03-2023 | 28-06-2023 | 28-06-2023 |