Title
PATHOLOGY AND GENERAL
PHYSIOPATHOLOGY I - II

Code
MC 3109

ECTS Credits
P&GP I: 6; P&GP II: 7

Teaching Format
Lectures and practical training

Semester/Year
1st & 2nd/ 3º

Assessment/Exam Type
Written and oral

Teaching Hours
Lectures P&GP I: 48
Lectures P&GP II: 56

FTE
3

Student Rating
Very good

Exam Rating
Good

Preconditions
PHYSIOLOGY
IMMUNOLOGY AND IMMUNOPATHOLOGY

Contents

General concepts of health and disease, the causes of disease
General aetiology: Diseases of environmental origin. Physical causes: temperature, pressure, etc. The pathogenic effect of radiation.
Pathogenic effect of chemical agents. Bacterial poisons and toxins.
Diet as a cause of disease. Smoking, alcohol and related pathologies.
Physiopathology of the blood: Composition and general functions of blood. Haemopoiesis. Haemocatheresis.
Anaemias. General alterations of white blood corpuscles.
Physiopathology of the endocrine glands: Physiopathology of the pituitary gland. Physiopathology of the thyroid.
Physiopathology of the suprarenals. Integrated response to stress.
Physiopathology of the digestive tract: Physiopathology of the oesophagus and stomach. Physiopathology of the colon and rectum. Haemorrhages of the digestive tract.
Physiopathology of the respiratory system: Principles of respiratory physiopathology.
Physiopathology of the nervous system: Principal alterations of nerve cells and resulting physiopathological alterations of the nervous system.
Physiopathology of aging: Biological and physiological bases of the aging process of cells and the organism.
**Objectives**

To define and learn the characteristics of healthy and pathological conditions. To know the principle mechanisms which cause damage at different levels of integration, from the molecule to the organism. To learn the principal causes of endogenic and exogenic disease, classifying the general mechanisms of damage at cellular, molecular and genetic level. To learn the principal mechanisms of the alteration of cell metabolism, sequelae and adaptations. To analyse and gain knowledge of degenerative processes and cell death. To know the basic mechanisms of reaction to damage: the inflammatory process and the repair process. Study of the neoplastic process. To understand the pathogenesis of morbid processes and to evaluate the corresponding morphological aspects. Study and knowledge of the modifications of the physiological functions resulting from damage to major organs and systems.

**Material/ Equipment required**
- Identity badge

**Additional Costs**
- None