



GENERAL AND CLINICAL PATHOLOGY / IMMUNOLOGY

Enrollment year	2020/2021
Academic year	2020/2021
Regulations	DM270
Academic discipline	MED/04 ()
Department	DEPARTMENT OF PUBLIC HEALTH, NEUROSCIENCE, EXPERIMENTAL AND FORENSIC MEDICINE
Course	NURSING
Curriculum	PERCORSO COMUNE
Year of study	1°
Period	
ECTS	2
Lesson hours	30 lesson hours
Language	Italian
Activity type	WRITTEN TEST
Teacher	CAZZALINI ORNELLA - 2 ECTS
Prerequisites	Knowledge of biochemistry, physiology and cellular biology.
Learning outcomes	The aims are: - to introduce the student to the causes and mechanisms that are the basis of human pathological processes; - to acquire the basics of the immune response; - to learn the scientific terms and the language used in medicine for effective communication with other health workers.
Course contents	iology Pathogens: (A) intrinsic to the organism (genetic pathology); (B) extrinsic to the organism (environmental pathology): 1) physical agents (radiations, high and low temperatures); 2) chemical agents (damage mechanism, absorption and elimination

pathways, organism defense mechanisms, exogenous and endogenous poisons);

3) nutritional alterations

4) biological interactions.

Regressive processes (cellular pathology)

- hypoplasia, hypotrophy;
- cellular degeneration, degeneration of the fundamental substance of the connective tissue;
- pathological calcifications;
- pathological pigmentation;
- necrosis and apoptosis.

Inflammation: causes, moments, aspects, evolution; Chronic granulomatous inflammation.

Healing processes.

Pathologic growth: Hypertrophy and hyperplasia.

Biology of tumors: definition, benign and malignant tumors, invasion, metastasis, cachexia, etiology, principles of classification, epidemiology, diet influence.

Complex lesions: Thrombus and atherosclerotic lesion.

The concept of Immunity, innate and acquired immunity, immunopathology.

Teaching methods

Lectures

Reccomended or required readings

G.M. PONTIERI

Elementi di patologia generale – Piccin

M. PAROLA

Patologia generale – EdiSES

L.A. STIVALA - V. VANNINI

Guida alla studio della Patologia generale - Print Service

ABBAS A.K., LICHTMAN A.H., PILLAI S.

Le basi dell'immunologia – Edra

QUAGLINO E., CAVALLO F., FORNI G.

Le difese immunitarie – PICCIN

DOAN T., MELVOLD R., VISELLI S., WALTEBAUGH C.

Le basi dell'Immunologia - Zanichelli

The slides of the lectures will be available in Kiro site.

Assessment methods

Written exam composed by open questions or multiple choice.

Further information

Written exam composed by open questions or multiple choice.

