

Course Unit	General Pathology		Field of study	Medicine	
Bachelor in	Gerontology		School	School of Health	
Academic Year	2023/2024	Year of study	1	Level	1-1
Type	Semestral	Semester	2	Code	9833-346-1204-00-23
Workload (hours)	135	Contact hours	T -	TP 45	PL -
			TC -	S 6	E -
			OT 9	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) Raul Fernando Louro de Sousa

Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

Describe pathological phenomena of the human organism: etiology, prevalence, pathogenesis, clinical manifestations and diagnostic methodologies. Know pathologies that affect the elderly population.

Prerequisites

Before the course unit the learner is expected to be able to:

1. To know the anatomy and physiology of the organic systems to be studied
2. Relate the anatomy and physiology of the organic systems to be studied

Course contents

Concept of pathology. Cell injury. Ischemia and necrosis. Inflammation. Cellular alterations. Neoplasia. Infection. Cardiovascular, respiratory, digestive, urinary, genital, osteoarticular and nervous system diseases.

Course contents (extended version)

1. Clinical history; Injury, cellular necrosis, Cellular Adaptations; Aging, Death
2. Inflammation. Chemical mediators. Alt. Vascular. Morphological Patterns of Inflammation
3. Cellular adaptations: atrophy, hypertrophy, dysplasia, metaplasia and aplasia.
4. Neoplasia. Characteristics of Benign and Malignant Neoplasms. Molecular Bases of Cancer
5. Infectious diseases. HIV infection; Tuberculosis; Meningitis; Infective endocarditis
6. Heart disease. Cardiac insufficiency; Ischemic heart disease; Hypertensive Cardiopathy
7. Blood Vessel Disease. Response to injury; Atherosclerosis; Hypertensive vascular disease; Aneurysm
8. Pathology of the Blood and Lymphoid Tissue. Definition of anemia. Coagulation Disorders
9. Respiratory System Pathology. Asthma. Chronic obstructive pulmonary disease; Pulmonary infections
10. Digestive Pathology. Esophagus: hiatus hernia. Stomach Disorders: gastritis, ulcers, and carcinomas.
11. Hepatic Injury. Cirrhosis. Hepatic Insufficiency. Hepatitis
12. Endocrine Pathology: Diabetes Mellitus. Metabolic manifestations. Diabetic Foot and Retinopathy.
13. Renal Parenchymal Function Changes
14. Skeletal muscle pathology. Osteoarthritis; Osteoporosis; Drop

Recommended reading

1. Kumar, Vinay, Cotran, Ramizi S. , & Robbins, Stanley L. (Eds.). (2003). Robbins Patologia Básica (7ª ed.): Saunders Elsevier Science.
2. Rubin, Raphael, & Strayer, David S. (Eds.). (2005). Patologia: Bases Clinicopatológicas de Medicina (4ª ed.): Guanabara Brasil.
3. Sergio, J. Silveira, Coutinho, Isabel, & Marques, Sandra (Eds.). (2002). Fundamentos de Patologia para Técnicos de Saúde (2ª ed.): Lusociência
4. Pinto, Anabela Mota (2007). Fisiopatologia: Fundamentos e Aplicações (2ª ed.). Lidel

Teaching and learning methods

Expositive method with presentation of clinical cases/situations of institutionalized elder patients

Assessment methods

- Final - (Regular, Student Worker) (Final, Supplementary, Special)
- Final Written Exam - 100%

Language of instruction

Portuguese

Electronic validation

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25-03-2024	20-05-2024	21-05-2024	22-05-2024