

UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata
ACADEMIC YEAR	2022/2023
BACHELOR'S DEGREE (BSC)	NEUROPHYSIOPATHOLOGY TECHNIQUES
INTEGRATED COURSE	REPSIRATORY AND CARDIOVASCULAR PATHOLOGY - INTEGRATED COURSE
CODE	22330
MODULES	Yes
NUMBER OF MODULES	2
SCIENTIFIC SECTOR(S)	MED/10, MED/11
HEAD PROFESSOR(S)	
OTHER PROFESSOR(S)	NOVO GIUSEPPINA Professore Associato Univ. di PALERMO
	PRINCIPE STEFANIA Ricercatore a tempo Univ. di PALERMO determinato
CREDITS	4
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	2
TERM (SEMESTER)	1° semester
ATTENDANCE	Mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	NOVO GIUSEPPINA
	Monday 11:00 13:00 Il ricevimento verra svolto previo appuntamento in data ed orario da concordare presso il Reparto di Cardiologia. AOUP- Palermo o Cefpas di CL.

PREREQUISITES Knowledge of anatomy and physiology LEARNING OUTCOMES The purpose of the integrated course is to encourage: - knowledge of the topics covered (notions of physiopathology, clinic, diagnosi and therapy as well as topics more specifically related to the field of neurophysiological diagnostics in pathologies cardiovascular and respiratory apparati); - the ability to understand through analytical strategies and the ability to establis connections between different clinical conditions based on the symptor presented by the patient. - the ability to apply knowledge and understanding through the discussion of simple cases which are required to propose the diagnostic process an elements of medical and rehabilitative therapy. - the ability to provide independent judgments on the disciplinary contents. - The ability to convey to the examiner the contents learned through a appropriate language. - The ability to learn in a logically and structured way by placing the content learned within an appropriate clinical context of reference, ability to consu bibliographic material and scientific theses. ASSESSMENT METHODS The oral exam will consist of an interview, aimed at ascertaining the possession of the disciplinary skills and knowledge required by the course, the ability to contextualize and expose. The evaluation will be expressed out of thirty. Open-ended questions will be asked to test: a) the knowledge acquired; b) processing skills; c) possession of adequate exhibition capacity. A. As regards the verification of the acquired knowledge, it will be required: wha are the physiopathological mechanisms underlying the main cardiovascular and respiratory diseases, such as symptoms, such as the main diagnostics, suitable for diagnosis in the context of the specific pathology in question and rudiments
 - knowledge of the topics covered (notions of physiopathology, clinic, diagnosi and therapy as well as topics more specifically related to the field or neurophysiological diagnostics in pathologies cardiovascular and respiratory apparati); - the ability to understand through analytical strategies and the ability to establis connections between different clinical conditions based on the symptor presented by the patient. - the ability to apply knowledge and understanding through the discussion or simple cases which are required to propose the diagnostic process an elements of medical and rehabilitative therapy. - the ability to provide independent judgments on the disciplinary contents. - The ability to learn in a logically and structured way by placing the content learned within an appropriate clinical context of reference, ability to consubibliographic material and scientific theses. ASSESSMENT METHODS The oral exam will consist of an interview, aimed at ascertaining the possession of the disciplinary skills and knowledge required by the course, the ability to contextualize and expose. The evaluation will be expressed out of thirty. Open-ended questions will be asked to test: a) the knowledge acquired; b) processing skills; c) possession of adequate exhibition capacity. A. As regards the verification of the acquired knowledge, it will be required: wha are the physiopathological mechanisms underlying the main cardiovascular and respiratory diseases, such as symptoms, such as the main diagnostics, suitable
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 of therapy. B. As regards the verification of processing skills, at least one of the following three objectives will be indicated: b1) provide independent judgments on the disciplinary contents; b2) understand the applications or implications of the same within the framewor b3) place the disciplinary contents within the professional, technological or social cultural context of reference. C. With regard to the verification of the exhibition skills, the candidate must demonstrate language properties appropriate to the professional context of reference. The exam will be passed with a minimum of marks if the student shows knowledge and understanding of the topics at least in general terms and has minimal application skills in order to solve concrete cases; he must also posses expository and argumentative skills such as to allow the transmission of his knowledge and application skills will be able to interact with the examination will be insufficient. The more, however, the examiner, and the more his knowledge and application skills will go into the detail of the discipline being tested, the more the evaluation will be positive.

MODULE CARDIOVASCULAR SYSTEM DISEASES

Prof.ssa GIUSEPPINA NOVO

SUGGESTED BIBLIOGRAPHY

Rugarli C., Medicina Interna Sistematica.

S. Dalla Volta. Malattle del cuore e del vasi.	
АМВІТ	10351-Scienze interdisciplinari cliniche
INDIVIDUAL STUDY (Hrs)	30
COURSE ACTIVITY (Hrs)	20

EDUCATIONAL OBJECTIVES OF THE MODULE

To know the basis of pathophysiology, epidemiology, clinical presentation, diagnostic criteria, natural history and treatment of major diseases of the cardiovascular system.

To know the issues related to rehabilitation and treatment of the main diseases of the cardiovascular system.

To know how to apply a therapeutic strategy correctly and efficiently and to know principles

of possible therapeutic approaches, as part of the rehabilitation of the main diseases of the cardiovascular system.

The student must also know the basis of the main biochemical and instrumental tests useful for diagnosis and follow-up of individual cardiovascular diseases.

SYLLABUS

Hrs	Frontal teaching
2	Main symptoms of cardiovascular disease: dyspnea, chest pain, palpitations, syncope
2	Atherosclerosis and cardiovascular risks factors. Prevention of cardiovascular diseases; Invasive and non invasive cardiological diagnostic tests.
2	Acute coronary Syndromes: STEMI, UA/NSTEMI; chronic ischaemic cardiomyopathy
2	Acute and chronic heart failure
2	Cardiomyopathies, myocarditis, infective endocarditis
2	Valves disease
2	Cardiac arrhythmias; Sudden cardiac death and cardiac life support
2	Venous thromboembolism; Peripheral arterial disease
2	Aortic anuerysm
2	Arterial hypertension

MODULE **RESPIRATORY SYSTEM DISEASES**

Prof.ssa STEFANIA PRINCIPE

SUGGESTED BIBLIOGRAPHY

 Il ricondizionamento all'esercizio fisico del paziente con patologia respiratoria. Dalla valutazione al trattamento. Lazzeri M., Brivio A., Carlucci A., Piaggi G. 2014 Medicina Interna per Scienze Infermieristiche. Raffaele Antonelli Incalzi. Piccin 2012 		
AMBIT	10351-Scienze interdisciplinari cliniche	
INDIVIDUAL STUDY (Hrs)	30	
COURSE ACTIVITY (Hrs)	20	
EDUCATIONAL OBJECTIVES OF THE MODULE		

Knowing the basics of pathophysiology, epidemiology, clinical presentation, diagnostic criteria, natural history and treatment of principal respiratory diseases.

Knowing in detail the issues related to rehabilitation of the main respiratory diseases. Knowing how to correctly and efficiently perform a rehabilitation and physiotherapy program and to know the general

frameworks of possible therapeutic approaches, as part of the rehabilitation of the main respiratory diseases. The student must also know the basics of main instrumental tests that are useful for diagnosis and follow-up of respiratory diseases.

SYLLABUS

Hrs	Frontal teaching
2	Main symptoms of respiratory diseases: cough, dyspnea, hemoptysis and chest pain.
2	Chronic obstructive pulmonary disease (COPD): 1) Chronic bronchitis; 2) Pulmonary emphysema; 3) The damages of tobacco smoke. Asthma
2	Inhalation therapy in asthma and COPD: aerosols and portable devices for inhaled drugs.
2	Lung tumours
2	Bronchiectasis: bronchiectasis and cystic fibrosis and non-cystic bronchiectasis.
1	Obstructive sleep apnea syndrome (OSAS).
1	Pneumonia: CAP and HAP
2	Pathophysiology and pulmonary function tests: 1) 6 minute walk test; 2) Dyspnea Scales; 3) Spirometry (baseline and global); 4) reversibility test; 5) Challenge test with methacholine; 6) DLco; Arterial blood gases and SaO2.
2	The acute and chronic respiratory failure; Oxygen therapy; The non-invasive mechanical ventilation (NIV).
1	Diffuse pulmonary diseases: 1) Idiopathic pulmonary fibrosis; 2) Sarcoidosis.
1	Pulmonary tuberculosis.
2	Pleural diseases: 1) pleural effusions; 2) pneumothorax; 3) Mesothelioma.