

INTEGRATED COURSE OF "RESPIRATORY AND CARDIOVASCULAR DISEASES" SSD MED/10, MED/11, MED/21, MED/22, MED/23

DEGREE PROGRAMME: MEDICINE AND SURGERY

COORDINATOR: PROF. GIOVANNI ESPOSITO

ACADEMIC YEAR 2025-2026

GENERAL INFORMATION – TEACHER REFERENCES

TEACHER: PROF. GIOVANNI ESPOSITO

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Faculty	Position	Scientific Fields	Phone	Reception	E-mail
Esposito Giovanni	Full Professor	Cardiovascular Diseases	4729	Bldg. 2	espogiov@unina.it
Paolillo Stefania	Associate Professor	Cardiovascular Diseases	4711	Bldg. 2	Stefania.paolillo@unina.it
Franzone Anna	Associate Professor	Cardiovascular Diseases	4325	Wednesday 10:00-12:00, ground floor, room 14 Bldg 2	Anna.franzone@unina.it
Piccolo Raffaele	Associate Professor	Cardiovascular Diseases	4325	Friday 9:00-11:00, Ground Level. Bldg. 2	Raffaele.piccolo@unina.it
Lombardi Raffaella	Associate Professor	Cardiovascular Diseases		Bldg.2	Raffaella.lombardi@unina.it
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Paola Iacotucci	RTD	Respiratory Diseases	70624 51	Bldg.3D	Paola.iacotucci@unina.it
Mauro Maniscalco	Associate Professor	Respiratory Diseases	70626 49	Monaldi Hospital	Mauro.maniscalco@unina.it
Morisco Carmine	Full Professor	Thoracic Surgery	2253	Tuesday 10:00-12:00, 1st floor Bldg 2	Carmine.morisco@unina.it
Bracale Umberto Marcello	Full Professor	Vascular Surgery	4732	Thursday 15:00-16:00, 4th floor Bldg 5	Umbertomarcello.bracale@unina.it
Mannacio Vito	Associate Professor	Cardiac Surgery	2277	Tuesday 15:00-16:30, 4th floor Bldg. 2	Vitoantonio.mannacio@unina.it
Strisciuglio Teresa	RTD	Cardiovascular Diseases	2253	Wednesday 10:30-12:30, 1st floor Bldg. 2	Teresa.strisciuglio@unina.it
Raffaele Giordano	Associate Professor	Cardiac Surgery	2277	Bldg.2	Raffaele.giordano1@unina.it

GENERAL INFORMATION about the course

TEACHING LANGUAGE: ENGLISH

CHANNEL (IF APPLICABLE): 1

YEAR OF THE DEGREE PROGRAMME: IV

SEMESTER: II

CFU: 11

REQUIRED PRELIMINARY COURSES

General Pathophysiology, Clinical Medical Surgical Methodology II

PREREQUISITES

For a proper understanding of the topics discussed in the Integrated Course, students should have acquired general knowledge of cardiovascular and respiratory system anatomy and physiology.

LEARNING GOALS

The aim of the course is to learn advanced knowledge regarding the pathogenesis, the clinical manifestations, the prognostic and therapeutic implications of the cardiovascular and respiratory diseases.

Students will also be capable to choose the best therapeutic approach, also considering the clinical context.

EXPECTED LEARNING OUTCOMES

Students will acquire the fundamental knowledge that will enable them to

- To understand the pathophysiology underlying cardiovascular and respiratory diseases*
- To learn the clinical presentations of cardiovascular and respiratory diseases, with related diagnostic evaluation and tools to be used in order to make a correct differential diagnosis*
- To appraise the available therapeutic strategies (pharmacological, percutaneous and surgical) to be selected for an optimal treatment of patients with cardiovascular and respiratory disease*

Knowledge and understanding

The course is mainly focused on the pathogenesis, clinical manifestations and therapeutic management of the main respiratory and cardiovascular diseases.

Discussion of clinical cases will help improving disease knowledge and medical reasoning.

Applying knowledge and understanding

Through the theoretical and practical notions provided from the course, students should develop critical thinking skills and should be capable to autonomously deepen their knowledge and keep up to date of respiratory and cardiovascular diseases.

At the end of the course, students should fluently discuss all the learned notions, using the most appropriate terminology and should also be capable to communicate, with a simple but comprehensive and accurate language, the main information about respiratory and cardiovascular diseases to non-experts (i.e. patients)

COURSE CONTENT/SYLLABUS

CARDIOVASCULAR DISEASE (3 CFU):

Clinical evaluation of the cardiovascular system. Electrocardiogram (ECG): general principles. Non-invasive cardiovascular imaging tools and techniques: X-ray, echography, Radio-isotopic techniques, provocative tests (exercise-ECG, stress-echocardiography, etc.). Invasive cardiovascular imaging: coronary angiography, heart catheterization, principles of interventional cardiology. Normal and pathologic myocardial function. Acute pulmonary embolism. Hypertension. Heart failure. Cardiac rheumatic disease. Heart valve diseases. Ischemic cardiomyopathy. Acute myocardial infarction. Right ventricular heart failure. Cardiomyopathies and myocarditis. Pericardial diseases. Infective endocarditis. Arrhythmias: brady and tachy-arrhythmias. Congenital heart diseases. Heart diseases during pregnancy. Cardiovascular involvement in systemic diseases.

VASCULAR SURGERY (1 CFU):

Acute thrombosis, embolism and prevention of pulmonary embolism. Arterial disease: abdominal aortic aneurysm, functional arterial disease, chronic peripheral artery disease, Acute and chronic celiac artery and superior mesenteric artery insufficiency, nephrovascular hypertension, supra-aortic trunk disease. Venous disease: varices, thrombophlebitis, phlebothrombosis, postphlebotic syndrome

CARDIAC SURGERY (1 CFU):

Surgical treatment of acquired cardiac disease: generic overview. Extra-corporeal circulation, devices for mechanically assisted-circulation. Surgical treatment of congenital cardiac disease: generic overview

THORACIC SURGERY (1 CFU): Pneumothorax. Thoracic trauma. Primary and secondary pleuric disease. Pulmonary suppuration. Diagnose, stadation and treatment of lung cancer. Neoplasias and mediastinal syndromes. Congenital diaphragmatic hernias. Respiratory disease due to esophageal stenosis and dyskinesia. Esophago-tracheal fistulas and esophago-bronchial fistulas. Broncho-pulmonary malformations

RESPIRATORY DISEASES (3 CFU): Acute infections of pulmonary system. Bronchiectasis. Chronic bronchitis. Chronic pulmonary enphysema. Bronchial asthma. Hypersensibility pneumonia. Pulmonary sarcoidosis. Pulmonary fibroses. Pulmonary vascular disease (pulmonary embolism, pulmonary hypertension, pulmonary oedema). Bronchopulmonary neoplasias. Chronic respiratory insufficiency. Acute respiratory distress syndrome in adult (ARDS). Pulmonary tuberculosis (Primary Tbc, after-primary and chronic: therapy and prevention)

TEACHING ACTIVITIES

Week	Day; Time	Lesson	Professor
1° 03-07 March 2025	Monday 3; 13.00-14.00	Cardiovascular Diseases/Pathophysiology of atherosclerosis	Piccolo Raffaele
	Monday 3; 14.00-15.00	Cardiovascular Diseases/Principles of ECG	Strisciuglio Teresa
	Tuesday 4; 15.00-16.00	Cardiovascular Diseases/Arrhythmias part 1	Strisciuglio Teresa
	Tuesday 4; 16.00-17.00	Cardiovascular Diseases/Arrhythmias part 2	Strisciuglio Teresa
	Wednesday 5; 15.00-16.00	Thoracic Surgery/Pneumothorax and pleural effusion	Morisco Carmine
	Wednesday 5; 16.00-17.00	Thoracic Surgery/Diaphragmatic hernias	Morisco Carmine
	Friday 7; 13.00-14.00	Respiratory Diseases/Diagnostic methods in respiratory diseases (part 1)	Francesco Perna
	Friday 7; 14.00-15.00	Respiratory Diseases/Diagnostic methods in respiratory diseases (part 2)	Francesco Perna
2° 10-14 March 2025	Monday 10; 13.00-14.00	Thoracic Surgery/Lung cancer (part 1)	Morisco Carmine
	Monday 10; 14.00-15.00	Thoracic Surgery/Lung cancer (part 2)	Morisco Carmine
	Tuesday 11; 15.00-16.00	Respiratory Diseases/Physical examination of the respiratory system	Paola Iacotucci
	Tuesday 11; 16.00-17.00	Respiratory Diseases/Bronchial asthma	Paola Iacotucci
	Wednesday 12; 15.00-16.00	Thoracic Surgery/ Idiopathic and secondary plural diseases (part 1)	Morisco Carmine
	Wednesday 12; 16.00-17.00	Thoracic Surgery/ Idiopathic and secondary plural diseases (part 2)	Morisco Carmine
	Friday 14; 13.00-14.00	Cardiovascular Diseases/Physical examination of the cardiovascular system	Franzone Anna
	Friday 14; 14.00-15.00	Respiratory Diseases/Chronic Obstructive pulmonary disease	Antonio Molino

3 rd 17-21 March 2025	Monday 17; 13.00-14.00	Cardiovascular Diseases/Heart failure (part 1)	Stefania Paolillo
	Monday 17; 14.00-15.00	Cardiovascular Diseases/Heart failure (part 2)	Stefania Paolillo
	Tuesday 18; 15.00-16.00	Cardiovascular Diseases/Hypertension	Raffaella Lombardi
	Tuesday 18; 16.00-17.00	Cardiovascular Diseases/Non-invasive imaging of cardiovascular diseases	Raffaella Lombardi
	Wednesday 19; 15.00-16.00	Cardiovascular Diseases/Pharmacotherapy of heart failure	Raffaella Lombardi
	Wednesday 19; 16.00-17.00	Cardiovascular Diseases/Pathophysiology of cardiomyopathies	Raffaella Lombardi
	Friday 21; 13.00-14.00	Cardiovascular Diseases/Hypertrophic cardiomyopathies	Raffaella Lombardi
	Friday 21; 14.00-15.00	Respiratory Diseases/Primary interstitial lung diseases	Maria Luisa Bocchino
4 th 24-28 March 2025	Monday 24; 13.00-14.00	Respiratory Diseases/Bronchiectasis (part 1 and 2)	Paola Iacotucci
	Monday 24; 14.00-15.00	Vascular Surgery/Aortic and carotid diseases	Bracale Umberto Marcello
	Tuesday 25; 15.00-16.00	Vascular Surgery/Peripheral arterial diseases	Bracale Umberto Marcello
	Tuesday 25; 16.00-17.00	Respiratory Diseases/Pneumonia	Antonio Molino
	Wednesday 26; 15.00-16.00	Cardiovascular Diseases/Valve diseases: mitral and aortic (part 1)	Stefania Paolillo
	Wednesday 26; 16.00-17.00	Cardiovascular Diseases/Valve diseases: tricuspid and pulmonary (part 2)	Stefania Paolillo
	Friday 28; 13.00-14.00	Respiratory Diseases/Secondary interstitial lung disease, granulomatosis and vasculitis (part 1)	Mauro Maniscalco
	Friday 28; 14.00-15.00	Respiratory Diseases/Secondary interstitial lung disease, granulomatosis and vasculitis (part 2)	Mauro Maniscalco
5 th 31-04 March-April 2025	Monday 31; 13.00-14.00	Cardiovascular Diseases/Acute coronary syndromes (part 1)	Giovanni Esposito
	Monday 31; 14.00-15.00	Cardiovascular Diseases/Acute coronary syndromes (part 2)	Giovanni Esposito

	Tuesday 1; 15.00-16.00	Cardiovascular Diseases/Ischemic cardiomyopathy (part 1)	Anna Franzone
	Tuesday 1; 16.00-17.00	Cardiovascular Diseases/Ischemic cardiomyopathy (part 2)	Anna Franzone
	Wednesday 2; 15.00-16.00	Cardiovascular Diseases/Myocarditis and pericarditis	Stefania Paolillo
	Wednesday 2; 16.00-17.00	Cardiovascular Diseases/Rheumatic heart disease	Stefania Paolillo
	Friday 4; 13.00-14.00	Cardiovascular Diseases/Heart catheterization and coronary angiography	Raffaele Piccolo
	Friday 4; 14.00-15.00	Cardiovascular Diseases/Pharmacotherapy of Acute Coronary Syndromes	Raffaele Piccolo
6 th 07-11 April 2025	Monday 7; 13.00-14.00	Cardiac Surgery/Cyanotic congenital heart disease	Raffaele Giordano
	Monday 7; 14.00-15.00	Cardiac Surgery/ Non-cyanotic congenital heart disease	Raffaele Giordano
	Tuesday 8; 15.00-16.00	Cardiovascular Diseases/Cardiogenic shock	Anna Franzone
	Tuesday 8; 16.00-17.00	Cardiovascular Diseases/Percutaneous treatment of valve diseases	Anna Franzone
	Wednesday 9; 15.00-16.00	Respiratory Diseases/Acute respiratory distress syndromes (part 1)	Francesco Perna
	Wednesday 9; 16.00-17.00	Respiratory Diseases/Acute respiratory distress syndromes (part 2)	Francesco Perna
	Friday 11; 13.00-14.00	Cardiac Surgery/Surgical myocardial revascularizations (part 1)	Mannacio Vito
	Friday 11; 14.00-15.00	Cardiac Surgery/Surgical myocardial revascularizations (part 2)	Mannacio Vito
7 th 14-18 April 2025	Monday 14; 13.00-14.00	Vascular Surgery/Management of vascular diseases and concomitant malignancies	Bracale Umberto Marcello
	Monday 14; 14.00-15.00	Cardiovascular Diseases/Pulmonary hypertension	Stefania Paolillo
	Tuesday 15; 15.00-16.00	Respiratory Diseases/Pulmonary fibrosis (part 1)	Maria Luisa Bocchino
	Tuesday 15; 16.00-17.00	Respiratory Diseases/Pulmonary fibrosis (part 2)	Maria Luisa Bocchino
	Wednesday 16; 15.00-16.00	Cardiovascular Diseases/Right heart catheterization	Piccolo Raffaele
	Wednesday 16; 16.00-17.00	Cardiovascular Diseases/Acute lung oedema	Piccolo Raffaele
	Friday 18; 13.00-14.00	Cardiovascular Diseases/Atrial fibrillation	Strisciuglio Teresa
	Friday 18; 14.00-15.00	Cardiovascular Diseases/Syncope	Strisciuglio Teresa
8 th 28-02 April-May 2025	Monday 28; 13.00-14.00	Thoracic Surgery/Mediastinum cancer and syndromes (part 1)	Morisco Carmine
	Monday 28; 14.00-15.00	Thoracic Surgery/Mediastinum cancer and syndromes (part 2)	Morisco Carmine
	Tuesday 29; 15.00-16.00	Cardiac Surgery/Aortic thoracic disease	Mannacio Vito
	Tuesday 29; 16.00-17.00	Cardiac Surgery/Left ventricular assist devices	Mannacio Vito
	Wednesday 30; 15.00-16.00	Respiratory Diseases/Respiratory failure (part 1)	Mauro Maniscalco
	Wednesday 30; 16.00-17.00	Respiratory Diseases/Respiratory failure (part 2)	Mauro Maniscalco
	Friday 2; 13.00-14.00	Respiratory Diseases/Mesothelioma	Anna Stanzola
	Friday 2; 14.00-15.00	Respiratory Diseases/Lung cancer	Antonio Molino

9 th 05-09 May 2025	Monday 5; 13.00-14.00	Respiratory Diseases/Pulmonary embolism	Mauro Maniscalco
	Monday 5; 14.00-15.00	Respiratory Diseases/Vascular diseases of the lung	Mauro Maniscalco
	Tuesday 6; 15.00-16.00	Vascular Surgery/Deep venous thrombosis	Bracale Umberto Marcello
	Tuesday 6; 16.00-17.00	Vascular Surgery/Endovascular surgery	Bracale Umberto Marcello
	Wednesday 7; 15.00-16.00	Cardiovascular Diseases/Endocarditis	Piccolo Raffaele
	Wednesday 7; 16.00-17.00	Cardiovascular Diseases/Systemic diseases and heart	Piccolo Raffaele
	Friday 9; 13.00-14.00	Respiratory Diseases/Sarcoidosis	Anna Stanziola
	Friday 9; 14.00-15.00	Vascular Surgery/Risk stratification of patients undergoing major vascular surgery	Bracale Umberto.Marcello
10 th 12-16 May 2025	Monday 12; 13.00-14.00	Cardiac Surgery/Surgical treatment of valve disease (part 1)	Mannacio Vito
	Monday 12; 14.00-15.00	Cardiac Surgery/Surgical treatment of valve disease (part 2)	Mannacio Vito
	Tuesday 13; 15.00-16.00	Vascular Surgery/Clinical cases of vascular diseases	Bracale UmbertoMarcello
	Tuesday 13; 16.00-17.00	Respiratory Diseases/Tuberculosis (clinical presentation)	Bocchino Maria Luisa
	Wednesday 14; 15.00-16.00	Respiratory Diseases/Tuberculosis (diagnosis and treatment)	Bocchino Maria Luisa
	Wednesday 14; 16.00-17.00	Cardiac Surgery/Extracorporeal circulation	Raffaele Giordano
	Friday 16; 13.00-14.00	Respiratory Diseases/Pulmonary hypertension	Anna Stanziola
	Friday 16; 14.00-15.00	Thoracic Surgery/Clinical cases of patients candidate to thoracic surgery	Morisco Carmine
11 th 19-23 May 2025	Monday 19; 13.00-14.00	Cardiac Surgery/Clinical cases of cardio-surgical patients	Raffaele Giordano
	Monday 19; 14.00-15.00	Cardiovascular Diseases/Sudden death	Teresa Strisciuglio
	Tuesday 20; 15.00-16.00	Vascular Surgery/Clinical cases of vascular diseases	Bracale Umberto Marcello
	Tuesday 20; 16.00-17.00	Cardiovascular Diseases/Pregnancy and heart	Franzone Anna
	Wednesday 21; 15.00-16.00	Cardiac Surgery/Extracorporeal circulation	Raffaele Giordano
	Wednesday 21; 16.00-17.00	Respiratory Diseases/Clinical cases of lung diseases	Anna Stanziola
	Friday 23; 13.00-14.00	Thoracic Surgery/Clinical cases of patients candidate to thoracic surgery	Morisco Carmine
	Friday 23; 14.00-15.00	Cardiac Surgery/Clinical cases of cardio-surgical patients	Raffaele Giordano



READINGS/BIBLIOGRAPHY

- HURST's, The Heart, Mc Graw Hill, 14th Edition, 2017
- HURRISON's, Principles of Internal Medicine, Mc Graw Hill, 20th Edition, 2018
- Fishman's, Pulmonary Diseases and Disorders", 5th Edition, Mc Graw -Hill, 2015
- Kirklin/Barratt-Boyes', Cardiac Surgery, 4th Edition, Elsevier, 2012

Other supporting didactic material available from the Professors

TEACHING METHODS

The course will be based for the 75% of the course on lectures (n. hours = 72 hours) with the support of power points and on the 25% on Clinical Clerkships (n. hours = 25).

EXAMINATION/EVALUATION CRITERIA

a) Exam type:

Exam type	
written and oral	X
only written	
only oral	
project discussion	
other	

In case of a written exam, questions refer to: (*)	Multiple choice answers	X
	Open answers	
	Numerical exercises	

(*) multiple options are possible