



**PI STATE UNIVERSITY OF MEDICINE AND PHARMACY**  
**„NICOLAE TESTEMIȚANU”**  
**DEPARTAMENT OF INTERNAL MEDICINE**  
**DISCIPLINE CARDIOLOGY**

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**Thematic Plan of Courses in Cardiology Discipline for Students of the IV Year,**  
**Faculty of Medicine 2, the Academic Year 2025-2026, the autumn semester**  
Minutes notice of the Department Meeting nr.1, from 25 August 2025

| Nr. | Theme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Lecturer                                                                                            | Hours | Date                     |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|--------------------------|
| 1.  | <b>Cardiovascular noninvasive and invasive explorations.</b><br>Biomarkers, components of biological products (blood, urine, tissue), or instrumental (ECG, EcoCG, CT, etc.).                                                                                                                                                                                                                                                                                                                                                                                                      | Elena Samohvalov<br>associate prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD. | 2     | 30.09.2025<br>08.12.2025 |
| 2.  | <b>Preventive cardiology. Cardiovascular risk factors.</b><br>Primary and secondary prophylaxis. Lipid and non-lipid risk factors, classical and new. Preventive cardiology. Primary prevention. Population prevention strategy and the high risk population prevention. Estimated of the total risk according to the SCORE score. Secondary prevention.                                                                                                                                                                                                                           | Elena Samohvalov<br>associate prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD. | 2     | 01.10.2025<br>09.12.2025 |
| 3.  | <b>Atherosclerosis. Dislipidemia.</b><br>Dislipidemias. Definitions.<br>Blood lipids. Fatty acids. Triglycerides.<br>Phospholipids. Cholesterol. Apoproteins.<br>Lipoproteins. Enzymes involved in lipid metabolism.<br>Receptors for high-density lipoprotein.<br>Lipoprotein metabolism.<br>Dyslipidemia as risk factor for ischemic heart disease.<br>Dislipidemia and atherosclerosis.<br>Etiopathogenesis of dyslipidemias.<br>Classification of hiperlipoproteinemias. Diagnostics, treatment and prevention of hiperlipoproteinemias.<br>Non-medical and medical treatment. | Lucia Mazur-Nicorici<br>prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD.       | 2     | 02.10.2025<br>10.12.2025 |
| 4.  | <b>Arterial Hypertension.</b><br>Definition of hypertension.<br>Classification of hypertension.<br>Pathogenesis of hypertension.<br>Clinical examination in hypertension.<br>Paraclinical examinations in patients with hypertension.<br>Subclinical manifestations of the target organs in hypertension. Nonfarmacological and pharmacological treatment. Rehabilitation.                                                                                                                                                                                                         | Angela Tcaciuc<br>associate prof., PhD, MD.<br><i>Lucia Mazur-Nicorici</i><br>prof., PhD, MD.       | 2     | 03.10.2025<br>11.12.2025 |
| 5.  | <b>Hypertensive urgences.</b><br>Hypertensive emergency common and extreme (major vital risk). Accelerated hypertension (malignant) with papilledema. Acute hypertensive left ventricular failure. Acute hypertensive encephalopathy<br>Hypertension associated with acute myocardial infarction, unstable angina, acute dissection of aorta, subarachnoid hemorrhage or stroke.<br>Hypertension in preeclampsia and eclampsia.<br>Perioperative hypertension.<br>Hypertension in the crisis of pheochromocytoma, in drugs usage, acute or chronic renal failure.                  | Angela Tcaciuc<br>associate prof., PhD, MD.<br><i>Lucia Mazur-Nicorici</i><br>prof., PhD, MD.       | 2     | 06.10.2025<br>12.12.2025 |



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| 6. | <b>Ischemic Heart Disease. Stable Angina.</b><br>Coronary circulation. Definitions. Classification. Structure of atherosclerotic lesions. Pathogenesis of atherosclerosis. Clinical mechanisms of ischemic heart disease. Risk factors and prevention. Stable angina. Tratament. Prognosis. Silent ischemia. Definition. Pathogenesis. Clinical manifestations. Diagnostic. Treatment. Prognosis. New ischemic syndromes myocardial preconditioning, siderate and hibernate myocardium. Cardiovascular rehabilitation.                                                                                                                                                                            | Snejana Vetrilă<br>associate prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD. | 2 | 07.10.2025<br>15.12.2025 |
| 7. | <b>Acute Coronary Syndrome. Instable Angina Pectoris. NSTEMI.</b><br>Unstable angina. AP "de novo". Vasospastic AP. PA aggravated. Early postinfarction AP. Microvascular AP. Definition. Pathogenesis. Clinical manifestations. Paraclinic Investigations. Acute myocardial infarction without ST segment elevation (NSTEMI). Clinical manifestations. Paraclinic investigations. Early complications. Late complications. Treatment (general, medical, interventional and surgical measures). Recovery in unstable angina. Cardiovascular rehabilitation)                                                                                                                                       | Snejana Vetrilă<br>associate prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD. | 2 | 08.10.2025<br>16.12.2025 |
| 8. | <b>Acute Myocardial Infarction. Cardiopulmonary and cerebral resuscitation. Sudden cardiac death.</b><br>Acute myocardial infarction without ST segment elevation. Acute myocardial infarction associated with ST segment elevation. The clinical manifestations. Laboratory investigations. Early complications. Late complications. Treatment. Treatment of reperfusion. Additional treatment methods. AMI treatment without ST elevation. Postinfarct of miocardium treatment. Sudden death. Cardiopulmonary and cerebral resuscitation. The criteria for the stabilizing of the vital indexes. Transportation and hospitalization of the revived patient. Postresuscitar syndrome management. | Snejana Vetrilă<br>associate prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD. | 2 | 09.10.2025<br>17.12.2025 |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Snejana Vetrilă<br>associate prof., PhD, MD.<br><i>Angela Tcaciuc</i><br>associate prof., PhD, MD. | 2 | 10.10.2025<br>18.12.2025 |
| 9. | <b>Arrhythmias</b><br>Electrophysiologic mechanisms of aritmogenesis. Sinus tachycardia. Sinus bradycardia. Sinus arrhythmia. Extrasistolas, jonctionale, ventricular and atrial. Paroxysmal supraventricular tachycardia. Treatment and prevention of paroxysmal supraventricular tachycardia. Atrioventricular nodal reentrant tachycardia. Atrial tachycardias. Atrial fibrillation and flutter. Treatment of paroxysmal atrial fibrillation and flutter. Treatment of ventricular tachycardia, flutter and ventricular fibrillation.                                                                                                                                                          | Angela Tcaciuc<br>associate prof., PhD, MD.<br><i>Snejana Vetrilă</i><br>associate prof., PhD, MD. | 2 | 13.10.2025<br>19.12.2025 |



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| <b>10.</b> | <b>Conductibility disorders. Cardiac syncope.</b><br>Sinoatrial and atrioventricular blocks. Intraventricular conduction disorders. Right bundle branch block. Left bundle branch block. Syndrome of ventricular preexcitation. Antiarrhythmics drugs. Syncopes nervous mediated. Cardiac syncope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Angela Tcaciuc<br>associate prof., PhD, MD.<br><i>Snejana Vetrilă</i><br>associate prof., PhD, MD.                                                                                                     | <b>2</b>                 | 15.10.2025<br>22.12.2025                                 |
| <b>11.</b> | <b>Valvular Heart Diseases.</b><br>Definition. Classification.<br>Mitral stenosis. Hemodynamics. The clinical picture. Diagnosis. Complications in mitral stenosis. Differential diagnosis. Pharmacological and surgical treatment of mitral stenosis.<br>Mitral regurgitation. Hemodynamics. The clinical picture. Diagnosis. Complications. Differential diagnosis. Pharmacological and surgical treatment.<br>Mitral valvular prolapse.<br>Aortic stenosis. Hemodynamics. The clinical picture. Diagnosis. Differential diagnosis. Complications. Treatment of aortic stenosis. Surgical treatment.<br>Aortic regurgitation. Hemodynamics. The clinical picture. Diagnosis. Differential diagnosis. Complications. Pharmacological and surgical treatment of aortic regurgitation.<br>Tricuspid stenosis and regurgitation.<br>Pulmonary regurgitation. Artificial valve choice and management of patients. | Lucia Mazur-Nicorici<br>prof., PhD, MD.<br><i>Elena Samohvalov</i><br>associate prof., PhD, MD.<br><br>Lucia Mazur-Nicorici<br>prof., PhD, MD.<br><i>Elena Samohvalov</i><br>associate prof., PhD, MD. | <b>2</b><br><br><b>2</b> | 16.10.2025<br>23.12.2025<br><br>17.10.2025<br>23.12.2025 |
| <b>12.</b> | <b>Infective endocarditis.</b><br>Definition. Classification. Etiology. Pathogenesis. Major and minor Duke criteria. Clinical presentation. Objective signs. Paraclinical study. Differential diagnosis. Antimicrobial treatment. Surgical treatment. Prophylaxis. Prognosis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Alexandra Grejdieru<br>associate prof., PhD, MD.<br><i>Elena Samohvalov</i><br>associate prof., PhD, MD.                                                                                               | <b>2</b>                 | 20.10.2025<br>12.01.2026                                 |
| <b>13.</b> | <b>Primary and secondary diseases of pericardium</b><br>Pericardial syndromes. Definition. Classification. The etiology.<br>Acute pericarditis. Definition. Classification. The symptoms and signs. Laboratory tests. Treatment.<br>Fibrinous pericarditis. Definition. Classification. Clinical manifestation. Objective signs. Paraclinical investigations. Treatment.<br>Acute exudative pericarditis. Definitions. Classification. Clinical manifestation. Objective signs. Paraclinical investigations. Treatment.<br>Cardiac tamponade. Clinical picture. Objective signs. Paraclinical investigations. Treatment.<br>Chronic pericarditis. Constrictive pericarditis.                                                                                                                                                                                                                                   | Elena Samohvalov<br>associate prof., PhD, MD.<br><i>Silvia Filimon</i><br>associate prof., PhD, MD.                                                                                                    | <b>2</b>                 | 21.10.2025<br>13.01.2026                                 |
| <b>14.</b> | <b>Myocarditis.</b><br>Myocarditis. Definition. Classification. Etiology. Pathogenesis. The clinical picture. Objective signs. Laboratory investigations. Treatment. Prognosis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Silvia Filimon<br>associate prof., PhD, MD.<br><i>Elena Samohvalov</i><br>associate prof., PhD, MD.<br>.                                                                                               | <b>2</b>                 | 23.10.2025<br>14.01.2026                                 |



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| 15. | <b>Cardiomyopathies.</b> Definition. Classification. Idiopathic dilative cardiomyopathy. Definition. Classification. Symptoms and signs. Laboratory investigations. Diagnosis. Treatment. Hypertrophic cardiomyopathy. Definition. Classification. Symptoms and signs. Laboratory investigations. Diagnosis. Treatment. Restrictive cardiomyopathy. Definitions. Classification Symptoms and signs. Laboratory investigations. Diagnosis. Treatment. Arrhythmogenic right ventricle dysplasia. Definitions. Classification. Symptoms and signs. Laboratory investigations. Diagnosis. Treatment.                                                                | Elena Samohvalov<br>associate prof., PhD, MD.<br><i>Silvia Filimon</i><br>associate prof., PhD, MD                                                                                                         | 2          | 24.10.2025<br>15.01.2026                                 |
| 16. | <b>Heart failure</b><br>Causes of heart failure.<br>Pathophysiology of Heart Failure. Presipitating factors of heart failure. Clinical presentation. Left-sided and right-sided heart failure. Acute left-sided heart failure. Acute right-sided heart failure. Congestive heart failure. Hipodiastolic heart failure. Classification. Complications. Treatment of heart failure. Non-pharmacological treatment Pharmacological treatment Other methods of adjuvant treatment Treatment in diastolic heart failure. Treatment in acute heart failure Other methods of adjuvant treatment Treatment in diastolic heart failure. Treatment in acute heart failure | Silvia Filimon<br>associate prof., PhD, MD<br><i>Snejana Vetrilă</i><br>associate prof., PhD, MD.<br><br>Silvia Filimon<br>associate prof., PhD, MD<br><i>Snejana Vetrilă</i><br>associate prof., PhD, MD. | 2<br><br>2 | 27.10.2025<br>16.01.2026<br><br>28.10.2025<br>16.01.2026 |
| 17. | <b>Rehabilitation of patients with cardiovascular diseases.</b> Rehabilitation of patients with: arterial Hypertension, Angina pectoris, Myocardic Infarction, Valvular Heart Diseases, Infective Endocarditis, Pericarditis, Myocarditis, Cardiomyopathies, Heart failure, arrhythmias and conductibility disorders.                                                                                                                                                                                                                                                                                                                                           | Elena Samohvalov<br>associate prof., PhD, MD<br><i>Silvia Filimon,</i><br>associate prof., PhD, MD.                                                                                                        | 2          | 29.10.2025<br>19.01.2026                                 |

**Head of Cardiology Department subdivision,**

**MCH „Holy Trinity”, professor, PhD, MD.**

**Livi Grib**

**Head of the study process,**

**associate prof. PhD, MD.**

**Alexandra Grejdieru**