

INTERNAL MEDICINE
THEMATIC PLAN OF LECTURES
FOR the 5th-YEAR STUDENTS of MEDICAL FACULTY
IN THE AUTUMN SEMESTER, 2023-2024 ACADEMIC YEAR

No	Subject	Hours	Date	Lecturer
1.	Systemic connective tissue disorders: the main principles of diagnosis, treatment and prevention.	2	01.09	Associate Professor Olga Korolyuk
2.	Acute and chronic glomerulonephritis, chronic kidney disease, and chronic renal failure: the main principles of diagnosis, treatment and prevention	2	15.09	
3.	Arterial hypertension: the main principles of diagnosis, treatment and prevention.	2	29.09	
4.	Atherosclerosis, chronic forms of coronary artery disease: the main principles of diagnosis, treatment and prevention.	2	13.10	
5.	Acute coronary syndrome: the main principles of diagnosis, treatment and prevention.	2	27.10	
6.	Myocarditis and cardiomyopathies: the main principles of diagnosis, treatment and prevention.	2	10.11	
7	Heart failure: the main principles of diagnosis, treatment and prevention.	2	24.11	
Total number of hours 14				

The Head of the Department
of Internal medicine No 2

Associate Professor Komarytsya O.Y.

**THEMATIC PLAN OF PRACTICAL CLASSES
FOR the 5th-YEAR STUDENTS of MEDICAL FACULTY
IN THE AUTUMN SEMESTER, 2023-2024 ACADEMIC YEAR**

No	Subject	Hours
1.	Essential arterial hypertension: the main principles of diagnosis, treatment and prevention.	4
2.	Secondary arterial hypertension: the main principles of diagnosis, treatment and prevention.	4
3.	Atherosclerosis and chronic forms of coronary artery disease: the main principles of diagnosis, treatment and prevention.	4
4.	Acute coronary syndrome: the main principles of diagnosis, treatment and prevention. The role of statins in cardiovascular risk reduction.	4
5.	Acute myocardial infarction: the main principles of diagnosis, treatment and prevention.	4
6.	Pulmonary heart and pulmonary embolism: the main principles of diagnosis, treatment and prevention. Diagnosis and principles of therapy of acute coronavirus disease (COVID-19).	4
7.	Infective endocarditis: the main principles of diagnosis, treatment and prevention.	4
8.	Acute rheumatic fever: the main principles of diagnosis, treatment and prevention.	4
9.	Congenital heart defects, acquired valve diseases: the main principles of diagnosis, treatment and prevention.	4
10.	Cardiomyopathies: the main principles of diagnosis, treatment and prevention.	4
11.	Myocarditis and pericarditis: the main principles of diagnosis, treatment and prevention.	4
12.	Cardiac arrhythmias: the main principles of diagnosis.	4
13.	Heart blocks: the main principles of diagnosis.	4
14.	Modern principles of treatment and prevention of cardiac rhythm and conduction disorders.	4
15.	Acute heart failure: the main principles of diagnosis, treatment and prevention.	4
16.	Chronic heart failure: the main principles of diagnosis, treatment and prevention.	4
	Total number of hours	64

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**THEMATIC PLAN OF INDIVIDUAL WORKS OF STUDENTS
FOR the 5th-YEAR STUDENTS of MEDICAL FACULTY
IN THE AUTUMN SEMESTER, 2023-2024 ACADEMIC YEAR**

No	Subject	Hours
1.	Preparation for the practical class “Essential arterial hypertension (AH): the main principles of diagnosis, treatment and prevention”. Mastering the skills of blood pressure measuring on the upper and lower limbs, assessment of ankle-brachial index, and ECG interpretation. Mastering the skills of choice of anti-hypertensive agents considering their advantages and disadvantages in particular clinical case.	3
2.	Preparation for the practical class “Secondary AH: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of ultrasound examination of the thyroid gland, adrenal glands, kidneys, and Doppler echocardiography.	3
3.	Preparation for the practical class “Atherosclerosis and chronic forms of coronary artery disease: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of serum lipid profile and ECG.	3
4.	Preparation for the practical class “Acute coronary syndrome: the main principles of diagnosis, treatment and prevention. The role of statins in cardiovascular risk reduction”. Mastering the skills of interpreting the results of ECG and blood biochemistry (i.e., markers of myocardial necrosis). Mastering the skills of choice of statins considering lipid-lowering and pleiotropic properties, and possible adverse effects.	3
5.	Preparation for the practical class “Acute myocardial infarction: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of chest radiographs, ECG, and Doppler echocardiography.	3
6.	Preparation for the practical class “Pulmonary heart and pulmonary embolism: the main principles of diagnosis, treatment and prevention. Diagnosis and principles of therapy of acute coronavirus disease (COVID-19)”. Mastering the skills of interpreting the results of Doppler echocardiography, ECG, and laboratory tests (CBC, blood coagulation tests, D-dimers, serum procalcitonin, RT-PCR for SARS-CoV2).	3
7.	Preparation for the practical class “Infective endocarditis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of Doppler echocardiography and laboratory tests (CBC, blood biochemistry, blood serology, blood culture with antibiogram).	2
8.	Preparation for the practical class “Acute rheumatic fever: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of ECG and blood tests (e.g., CBC, total serum protein with fractions, acute phase reactants, ASLO titre).	3
9.	Preparation for the practical class “Congenital heart defects, acquired valve diseases: the main principles of diagnosis, treatment and prevention.” Mastering the skills of interpreting the results of chest radiographs and Doppler echocardiography.	3
10.	Preparation for the practical class “Cardiomyopathies: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of ECG, Doppler echocardiography, and blood tests (markers of myocardial necrosis, BNP, proNT-BNP).	3
11.	Preparation for the practical class “Myocarditis and pericarditis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of ECG, Doppler echocardiography, and blood tests (markers of myocardial necrosis, BNP, proNT-BNP).	3
12.	Preparation for the practical class “Cardiac arrhythmias: the main principles of diagnosis”. Mastering the skills of interpreting the results of ECG and Doppler echocardiography.	3
13.	Preparation for the practical class “Heart blocks: the main principles of diagnosis.” Mastering the skills of interpreting the results of ECG.	3
14.	Preparation for the practical class “Modern principles of treatment and prevention of cardiac rhythm and conduction disorders”. Mastering the skills of choice of antiarrhythmic agents considering their advantages and disadvantages in particular clinical case.	2
15.	Preparation for the practical class “Acute heart failure: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of ECG, Doppler echocardiography, and chest radiography.	2
16.	Preparation for the practical class “Chronic heart failure: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of ECG, Doppler echocardiography, and blood tests (i.e., BNP, proNT-BNP)	2
17.	Writing of medical record	25
Total number of hours		69

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**THEMATIC PLAN OF PRACTICAL CLASSES
FOR the 5th-YEAR STUDENTS of MEDICAL FACULTY
IN THE SPRING SEMESTER, 2023-2024 ACADEMIC YEAR**

No	Subject	Hours
1.	Systemic lupus erythematosus: the main principles of diagnosis, treatment and prevention.	4
2.	Systemic sclerosis and dermatomyositis: the main principles of diagnosis, treatment and prevention.	4
3.	Systemic vasculitis: the main principles of diagnosis, treatment and prevention.	4
4.	Osteoarthritis and gout: the main principles of diagnosis, treatment and prevention.	4
5.	Rheumatoid arthritis: the main principles of diagnosis, treatment and prevention.	4
6.	Ankylosing spondylitis and reactive arthritis: the main principles of diagnosis, treatment and prevention.	4
7.	Acute kidney injury and pyelonephritis: the main principles of diagnosis, treatment and prevention.	4
8.	Glomerulonephritis, tubulointerstitial nephritis, and chronic kidney disease: the main principles of diagnosis, treatment and prevention.	4
9.	Chronic renal failure, kidney amyloidosis: the main principles of diagnosis, treatment and prevention.	4
Total number of hours		36

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**THEMATIC PLAN OF INDIVIDUAL WORKS OF STUDENTS
FOR the 5th-YEAR STUDENTS of MEDICAL FACULTY
IN THE SPRING SEMESTER, 2023-2024 ACADEMIC YEAR**

No	Subject	Hours
1.	Preparation for the practical class “Systemic lupus erythematosus: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of blood tests (CBC, serum protein electrophoresis, acute phase reactants, renal and liver profiles, ASLO titre, ANA, dsDNA antibodies, Sm-antigen etc.) and urinalysis.	5
2.	Preparation for the practical class “Systemic sclerosis and dermatomyositis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of blood tests (i.e., CBC, serum protein electrophoresis, creatine phosphokinase, acute phase reactants, renal and liver profiles, SCL-70, Jo-1, etc.) and urinalysis.	5
3.	Preparation for the practical class “Systemic vasculitis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of blood tests (i.e., CBC, serum protein electrophoresis, acute phase reactants, renal and liver profiles, pANCA, cANCA, serological markers for viral hepatitis B and C, etc.) and urinalysis.	5
4.	Preparation for the practical class “Osteoarthritis and gout: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of joint radiography and laboratory tests (i.e., CBC, acute phase reactants, serum uric acid level, renal profile, synovial fluid analysis etc.).	5
5.	Preparation for the practical class “Rheumatoid arthritis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of joints radiography and laboratory tests (e.g., CBC, urinalysis, acute phase reactants, rheumatoid factor, anti-CCP antibodies, and synovial fluid analysis).	5
6.	Preparation for the practical class “Ankylosing spondylitis and reactive arthritis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of joints and sacroileal radiographs and laboratory tests (e.g., CBC, urinalysis, acute phase reactants, rheumatoid factor, anti-CCP antibodies, and synovial fluid analysis).	5
7.	Preparation for the practical class “Acute kidney injury and pyelonephritis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of kidney ultrasound, CBC, blood biochemistry, urine tests and urine culture.	3
8.	Preparation for the practical class “Chronic kidney disease, tubulointerstitial nephritis, glomerulonephritis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of CBC, urinalysis, blood biochemistry (i.e., acute phase reactants, protein electrophoresis, plasma glucose, uric acid level, renal profile, lipid profile, etc.), calculation of estimated glomerular filtration rate (eGFR).	5
9.	Preparation for the practical class “Chronic renal failure, kidney amyloidosis: the main principles of diagnosis, treatment and prevention”. Mastering the skills of interpreting the results of CBC, urinalysis, blood biochemistry and serology (i.e., acute phase reactants, total protein with fractions, plasma glucose, uric acid level, renal profile, lipid profile, amyloid markers, eGFR)	3
	Total number of hours	41

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