

**Odessa National Medical University
Department of Internal Medicine #4**

**Course Syllabus
"Actual issues of rheumatological pathology"**

Amount	120 hours / 4 credits
Semester, year of study	IV semester, 2 year of study
Days, time, place	Mo-Fr, according to the schedule, Department of internal medicine #4
Teacher (s)	Zolotareva Natalia Artemivna, Head of the Department, Prof., MD Solomko Olena Volodymyrivna, assistant professor, Ph.D. Romanchenko Maksym Ihorovych, assistant professor, Ph.D.
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Workplace	Military Medical Clinical Center of the Southern Region, Odessa, Pirogovskaya st., 2 WWII Regional Veteran's Hospital, Odessa, Fontanskaya road, 114,
Consultations	Daily, 16:15-18:00

Communication

The main part of the training will take place in person at the clinical bases of the department.

Remote communication will take place at:

- the official website of the department (www.therapy.odmu.edu.ua);
- Microsoft Teams platform (<https://teams.microsoft.com/>);
- info-systems ONMedU (<https://info.odmu.edu.ua/>).

The main e-mail for communication is max.romanchenko@onmedu.edu.ua (head teacher of the department, Romanchenko Maksym Ihorovych)

During quarantine, training will take place exclusively on the Microsoft Teams platform (<https://teams.microsoft.com/>)

COURSE ABSTRACT

The subject of study of the selective educational discipline "Actual issues of rheumatological pathology" is the characteristic clinical manifestations of

rheumatological diseases, modern methods and algorithms of diagnosis and treatment of rheumatological pathology, which are based on the principles of evidence-based medicine.

Interdisciplinary connections:

based on the study by the students of normal and pathological clinical anatomy, histology, general and clinical pathological physiology, pharmacology, general pharmacy and clinical pharmacology, propaedeutics of internal diseases, family medicine, radiation diagnostics, which involves integration with these disciplines and forms the ability apply knowledge in the process of further education and professional activity.

The purpose of the course.

The purpose of the selective educational discipline "Actual issues of rheumatological pathology" is the training of specialists who are able to competently solve complex problems in the field of professional and research innovation activities when planning and performing their own research and training doctors of philosophy for the qualitative performance of functional duties related to diagnosis, differential diagnosis and treatment of rheumatological pathology.

Discipline tasks.

The main tasks of the optional educational discipline are:

- 1) provision of knowledge about the etiology and pathogenesis, risk factors, classification and main clinical manifestations of rheumatological diseases to those obtaining the degree of Doctor of Philosophy;
- 2) provision of knowledge regarding modern laboratory and instrumental methods of diagnosis of rheumatological diseases to those obtaining the degree of Doctor of Philosophy.
- 3) providing knowledge to those obtaining the degree of Doctor of Philosophy about modern methods of diagnosis and treatment of rheumatological diseases, based on the principles of evidence-based medicine, the algorithm of rational choice of treatment method and prescription of drugs for rheumatological diseases.

Expected results

A graduate student (applicant) should know:

- Etiology, pathogenesis, modern classification, risk factors of rheumatological diseases;
- Clinical manifestations, features of the course and possible complications of rheumatological diseases, including features of the course in different age groups, gender, with comorbid and polymorbid conditions;
- Modern methods of clinical and laboratory-instrumental examination of patients with rheumatological diseases, criteria for establishing a diagnosis;
- Modern algorithms for the treatment of rheumatological diseases, the principles of rational choice of treatment methods, the appointment of basic and

symptomatic drugs, pharmacological characteristics of the main classes of drugs and their mechanisms of action.

A graduate student (applicant) must be able to:

- Conduct a survey of a patient with a rheumatological disease, identify risk factors;
- Conduct a complete physical examination (examination, palpation, percussion, auscultation) with a detailed examination of the musculoskeletal system;
- Assess the patient's condition to make a decision on the amount and type of optimal medical care, formulate a preliminary diagnosis;
- Determine the necessary scope of the examination taking into account modern standards, the prognosis of the disease and the program of differential diagnosis of the disease;
- Interpret examination results, formulate a clinical diagnosis;
- Develop a treatment plan taking into account the features of the course of the disease and its previous treatment;

As a result of successful completion of the discipline, the student will be able to:

- Conduct a survey of a patient with a rheumatological disease, identify risk factors;
- Conduct a complete physical examination (examination, palpation, percussion, auscultation) with a detailed examination of the musculoskeletal system;
- Assess the patient's condition to make a decision on the amount and type of optimal medical care, formulate a preliminary diagnosis;
- Determine the necessary scope of the examination taking into account modern standards, the prognosis of the disease and the program of differential diagnosis of the disease;
- Interpret examination results, formulate a clinical diagnosis;
- Develop a treatment plan taking into account the characteristics of the course of the disease and its previous treatment;

COURSE DESCRIPTION

Forms and methods of education

The optional study discipline "Current issues of rheumatological pathology" consists of 4 ECTS credits (120 hours): in each credit, 15 classroom hours and 15 hours for independent work; a total of 60 classroom hours and 60 hours for independent work.

The course "Actual issues of rheumatological pathology" includes the following topics:

1. The relevance of studying rheumatological pathology. Prevalence of rheumatological pathology, risk factors. Modern classification of rheumatological diseases

2. Clinical examination of the musculoskeletal system. Assessment of the degree of pain and the functional state of the joints
3. Biochemical methods of research in rheumatological diseases. Interpretation of test results, assessment of disease activity. Specific markers of systemic diseases.
4. Instrumental imaging methods in rheumatology. Indications, interpretation of results.
5. Additional research methods in rheumatology. Interpretation of the results of histological examination of biopsies. Technique of joint puncture. Interpretation of synovial fluid analysis results.
6. Evaluation of ECG and ECHOS data in rheumatological patients.
7. Modern approaches to the treatment of rheumatic diseases from the standpoint of evidence-based medicine. The concept of basic therapy. The main groups of basic drugs.
8. Glucocorticoids in rheumatology. Rules for prescribing and selecting adequate doses of glucocorticoids, rules for canceling therapy. Methodology of pulse therapy.
9. Nonsteroidal anti-inflammatory drugs in rheumatology. Indications, contraindications, principles of rational drug selection. Local therapy for rheumatic diseases.

Recommended Books:

For successful learning, you need to have access to the following resources:

1. Rheumatology [Text]: teaching. manual / V. G. Psaryova, N. M. Kyrychenko, O. S. Pogorelova [and others]; in general ed. L. N. Prystupy, G. A. Fadeeva. - Sumy: Sumy State University, 2019. - 235 p. - 175-80
2. Internal medicine: Rheumatology: study guide (university of postgraduate education) / V.E. Kondratyuk, M.B. Jus. - K.: Medicine. 2017. - 272 p.
3. Diagnosis and treatment of rheumatic diseases: study guide / A.S. Svintsitskyi. - K.: Medknyga Publishing House, 2017.–372 p.
4. Perederii V.G. Basics of internal medicine: a textbook. Volume 2. Diseases of the circulatory system. Rheumatic diseases. Kidney disease. General questions of internal medicine / Perederii V.G., Tkach S.M.– Vinnytsia: New book. 2018. – 640 p.
5. Internal diseases: national. textbook. in 2 parts. Part 1. Chapters 1-8 / L.V. Glushko, S.F. Fedorov, I.M. Skrypnyk, M.M. Ostrovsky // edited by L.V. Glushka-K.: Medicine. 2019. - 680 p.

Additional educational materials will be posted on the page of the department in the information system of the University (https://info.odmu.edu.ua/chair/internal_medicine4/files)

A more complete list of textbooks, as well as a list of additional electronic resources, is available in the work program for the discipline.

Evaluation

Control forms:

The assessment of current learning activities is standardized.

The student's current educational activity is assessed on a 4-point (traditional) scale, and includes such gradations: "excellent", "good", "satisfactory" and "unsatisfactory".

Evaluation of the educational activities of all students is not required at every practical and seminar lesson. However, in the practical lesson, at least 50% of students must be interviewed.

At the end of the study of the discipline, the current academic performance is calculated as the average score of all the marks received by the student on the traditional scale, rounded to 2 (two) decimal places.

Assessment of individual student assignments

Grades for individual assignments are awarded to a student only if they are successfully completed and reported. The grade is added to current grades.

Assessment of students' independent work

Independent work of students, which is provided by the topic of the lesson along with classroom work, is assessed during the current control of the topic in the corresponding lesson. The assimilation of topics that are taken out only for independent work is checked during the exam or differential credit.

Final Exam

The exam is held at the end of the cycle and is also assessed on a 4-point (traditional) scale, including such gradations: "excellent", "good", "satisfactory" and "unsatisfactory". Only those students will be allowed to pass the exam who have no academic debts and have a grade average for current educational activity of at least 3,00 and have successfully passed control of practical skills physical examination of the patient and final KROK testing.

Final Discipline Evaluation

Score on discipline is determined as the average of current educational activity (the mean current performance) and exam mark (traditional scale), which is acquired evaluating theoretical knowledge and practical skills according to lists defined in discipline program.

Thus evaluation of the discipline consists of two components:

- 50% - the current success (average of all student marks);
- 50% - the score on the exam

The department calculates and puts two marks in a final score chart:

1) Average of all current estimates (calculated as number with two decimals, for example, 4.76); 2) Traditional score on the exam (differentiated test). Of particular methodological importance is the question of converting the result of a student's discipline on a 200-point scale and further ranking on a rating scale (ECTS). This is necessary for the implementation of academic mobility of students, providing the student with the opportunity to continue their studies in this discipline in another university or in another country. The resulting average score for the discipline, multiplied by 40, allows conversion into an assessment on a 200-point scale..

National score	Points
«5»	185-200
«4»	151-184
«3»	120-150

Course policy

The cycle "Tactics of diagnosis and treatment of the main forms of coronary heart disease" in order to learn to distinguish complex manifestations of coronary heart disease, correctly prescribe examination and treatment; you must repeat all questions of etiology and pathogenesis at home the day before - it will not be discussed in class, but for not knowing this you will receive an unsatisfactory grade.

Each day you will have a new topic, and to prepare for it in the evening, you will prepare SRS topics. If you don't have textbooks, work with them in the university library. Opening hours, library contacts:

http://libblog.odmu.edu.ua/p/blog-page_83.html.

Deadline policy

- All SIW assignments must be completed before the start of the practical session on the relevant topic.
- Every class missed without a reason should be completed. Working off takes place on Thursdays (one "n / b") and on Saturdays (3 "n / b"). Before practicing, be sure to complete the SIW on this topic.
- In case the lesson is missed for a good reason, the dean of the faculty will give you permission to rework on an individual schedule.

Academic Integrity Policy:

- All tasks, patient examination protocols, KROK-2 testing, reports, examination tasks must be performed by each student individually.
- Joint work on solving complex classroom tasks or SIW is allowed, however, everyone performs the written version of the completed task independently.
- It is allowed to use notes, textbooks, electronic devices during classroom and independent work.
- Plagiarism is prohibited. Those who are found to plagiarize will automatically receive a minimum score on the relevant topic.
- Cheating / prompting / using cheat sheets or technical aids during the exam will result in a “failed” grade, informing the faculty dean of the reasons for such an assessment, and retaking the exam according to the schedule.

Attendance and late arrival policy:

- It is necessary to come to class before it starts, put on a white coat, make sure that you have a phonendoscope, antiseptic, shoe covers, and the necessary study materials.
- In case of being late for the class, you must change your clothes before entering the classroom and enter the class without interrupting it. "N / b" is reworked in a standard manner.

Mobile Device Policy:

- In the classroom, it is allowed to use mobile devices, tablets and laptops exclusively for accessing educational materials and for keeping records.
- All mobile devices must be set to silent mode before the class starts.
- If it is necessary to make / receive a phone call that cannot be postponed, it is allowed to temporarily leave the classroom without interfering with the lesson.