

**Odesa National medical university**  
**Chair of Urology and nephrology**  
**Sillabus**

**«Clinical symptoms and differential diagnosis of urological diseases»**

<b>Amount</b>	<b>4 credits (120 hours)</b>
<b>Semester, year of study</b>	<b>3<sup>rd</sup> symester, 2<sup>nd</sup> year</b>
<b>Days, time, venue</b>	<b>According to schedule</b>
<b>Teacher (s)</b>	<b>Teachers of the chair of Urology and nephrology</b>
<b>Contact phone</b>	<b>(048) 705-91-46</b>
<b>E-mail</b>	<b>prof.kostev@gmail.com</b>
<b>Workplace</b>	<b>Premises of the Urology and Nephrology chair</b>
<b>Consultations</b>	<b>Face to face consultations: Thursday 14:00-15:00</b>

#### COMMUNICATION

Communication is possible during face-to-face consultations (offline / face to face), or remotely (online) using Teams (by prior arrangement). Communication can also be carried out using E-mail. At the same time, it is necessary to indicate a surname, first name, course, faculty and name of the course in the subject of the letter. Solving "work issues" is possible at the specified phone number.

#### COURSE ABSTRACT

The subject of the discipline "Urology" is: measures for the organization of the sanitary-epidemic regime in the urological clinic; dressing material and methods of its application; bleeding and ways to stop it temporarily and permanently; transfusion of donor blood components, hemotransfusion complications and their prevention; basics of anesthesiology and resuscitation; clinic, diagnostics, first aid, principles of treatment for traumatic injuries; general issues of urological infection; clinic, diagnosis, treatment, prevention of certain types of urological diseases; basics of transplantology, basics of clinical oncology; methodology of examination of a urological patient

Prerequisites of the course: the discipline is mandatory and is based on the study by graduate students (students) of such fundamental disciplines as human anatomy and physiology, pathological physiology, radiology, general surgery (with operative surgery and topographic anatomy) and is integrated with surgery, oncology, internal medicine, phthisiology, anesthesiology and intensive care.

Post-requisites of the course:

forms the foundations for students' study of family medicine and emergency medicine, which involves integration of teaching with these disciplines and forming skills to apply knowledge of urology in the process of further education and in professional activity.

The purpose of the "Urology" course is to master the methods of diagnosis, treatment and rehabilitation of patients with lesions of the urinary and male reproductive systems.

Tasks of the discipline:

- acquisition of systematized knowledge on the organization of urological care and prevention of the spread of intra-hospital infection;
- formation of practical skills in the use of dressing material;
- mastering the skills of urological patients care;
- acquaintance with the principles of local and general anesthesia, mastering the algorithms of diagnosis of terminal conditions, clinical death and carrying out measures for basic life support;
- getting to know the basics of transfusion and mastering the methods of transfusion of donor blood components and ensuring the prevention of hemotransfusion complications;
- mastering the ability to diagnose various traumatic injuries and to provide first aid for them, assimilation of the principles of treatment of traumatic injuries in hospital conditions;
- acquisition of general knowledge about urological infection, ability to diagnose inflammatory urological diseases; mastering the principles and features of treatment of various urological diseases and methods for their prevention;
- acquaintance with the basics of transplantology;
- mastering the basics of uro-oncology;
- formation of practical skills regarding urological patient examination and registration of the results in the inpatient medical record

Expected results:

- mastering the basic measures necessary for work organizing in the urology department and ensuring the prevention of the occurrence and spread of intra-hospital infection;

- acquisition of practical skills of bandages changing using various dressing materials;
- acquisition of practical skills of first aid providing for conditions such as bleeding, closed damage to soft tissues, acquisition of practical skills for preparation and transfusion of donor blood components;
- learning the basics of local and general anesthesia, acquiring the ability to choose a method of anesthesia depending on the patient's condition and existing urological pathology;
- acquisition of practical skills for diagnosis and differential diagnosis of various urological diseases, acquisition of skills regarding the choice of treatment options and means of urological infection prevention;
- assimilation of knowledge about the peculiarities of the application of various transplants, deontological and legal aspects of transplantation;
- acquisition of skills and abilities of a surgical patient examination and results registration in the relevant medical documentation;
- formation of moral, ethical and deontological qualities during professional communication with the patient.

**A graduate student (applicant) must be able to:**

- Carry out palpation for urological and oncurological diseases
- Conduct a rectal digital examination
- Evaluate and interpret the data of instrumental and general laboratory examinations in urological and oncurological diseases
- Interpret the kidney, bladder, prostate gland and scrotal organs ultrasound examination data
- Provide emergency care for urological diseases
- Conduct pre-operative training of patients with urological and oncurological diseases
- To know the technique of cystoscopy
- To be able to establish indications for surgical interventions in urological and oncurological diseases

**COURSE DESCRIPTION**

Forms and methods of education

The educational discipline "Clinical symptomatology and differential diagnosis of urological diseases" consists of 4 credits (120 hours): in each credit

there are 5 classroom hours and 10 hours for independent work, a total of 180 classroom hours and 180 hours for individual work.

During the discipline learning, the following teaching methods will be used: verbal (lecture, conversation); visual (multimedia presentations, diagrams, tables, radiographs, operating room); practical training; the "standardized patient" method, practice of practical skills on dummies, work with the textbook (individual student's work ), performance of individual independent tasks. Group consultations are planned (3 hours per week according to the consultation schedule).

Content of the academic discipline:

Topic 1. Medical, social and epidemiological issues in urology. New directions of scientific research in the "Urology" specialty. Application and improvement of the evidence-based medicine principles in urology.

Topic 2. Modern methods of laboratory and instrumental diagnostics in urology. Radiation and radionuclide diagnostics. Radiological and radiographic methods of urological diseases research. Diagnostic values of ultrasound examination in urological patients.

Topic 3. Abnormalities of genitourinary organs. Infectious non-specific inflammatory diseases of the genitourinary system organs. Providing acute pyelonephritis emergency care. Analysis of urine culture and its antibiotic sensitivity. Providing paranephritis emergency care. Providing acute prostatitis emergency care. Diagnosis, clinical presentation, treatment of genitourinary tuberculosis.

Topic 4. Diagnosis and treatment of urolithiasis, hydronephrosis. Management of patients with kidney injury. Management of patients with bladder injuries, urethral injuries. Urethra autoplasty.

Topic 5. Providing emergency care for acute urinary retention, anuria, hematuria, renal colic. Acute and chronic renal failure. Assistance with genitourinary fistulas. Polycystic kidney disease.

Topic 6. Nephroptosis. Neurogenic disorders of urination. Operative urology: surgical procedures on kidneys, ureters, bladder, laparoscopic surgery in urology.

Topic 7. Endoscopic surgery in urology. Robot-assisted surgery in urology. Assessment of the prevalence of risk factors in the development of major urological diseases and creation of preventive measures.

Topic 8. National programs for the prevention, diagnosis and treatment of the most widespread urinary tract diseases in Ukraine. Current principles of rehabilitation of patients with the most widespread urological illnesses. The main form of medical documentation in the institutes of health protection. The value of modern computer technologies in the practice of a urologist. Integration of a PhD's in the world's educational and scientific environment (via participation in international conferences, symposiums).

### **Recommended literature list:**

#### **a) basic:**

1. S. P. Pasechnikov; Urology: textbook /editorship S. P. Pasechnikov, S. A. Vozianov, V. N. Lesovoi [ et al]. – 2-nd edition. – Vinnitsa : Novaya Kniga, 2015.

2. Sarichev L. P. Symptoms of urological diseases: methodological recommendations for teachers/ L. P. Sarichev, S. M. Suprunenko, S. A. Suhomlin, Y. V. Sarichev. – Poltava, 2019.

3. Pasechnikov S.P. Modern problems of urology: [manual]: doctor's reference book/ S.P. Pasechnikov, V.I. Zaitsev. - Kyiv: B-ka Zdorovya Ukraini; 2017.

4. Stus V.P. Urology (practical skills for residents) / Stus V.P., Pasechnikov S.P. Educational and methodological manual.- Dnepr: OOO «Akzent PP», 2016

5. Sarichev L. P. Symptoms of urological diseases: methodological recommendations for teachers/ L. P. Sarichev, S. M. Suprunenko, S. A. Suhomlin, Y. V. Sarichev. – Poltava, 2019.

#### **б) additional**

1. Stus V.P., Pasechnikov S.P. Urology (practical skills for residents) / Educational and methodological manual.- Dnipropetrovsk: TOV "Accent PP", 2015.

2. Stus V.P., Pasechnikov S.P. Urology (practical skills for interns) / Educational and methodological manual. - Dnepropetrovsk: Accent PP LLC, 2016. - 282 p.

3. Sarychev L.P. Clinical anatomy and physiology of the organs of the urinary system and male genital system: method. rec. for teachers . L. P. Sarichev, S. A. Sukhomlin, S. M. Suprunenko. - Poltava, 2019. - 11 p.
4. Sarychev L.P. Symptoms of urological diseases: method. rec. for teachers / L. P. Sarichev, S. M. Suprunenko, S. A. Sukhomlin, Ya. V. Sarichev. - Poltava, 2019. - 14 p.

### **Information resources**

University site: <https://onmedu.edu.ua>

Library: <http://library.odmu.edu.ua>

### **EVALUATION**

**Assessment of students' individual work (SIW).** The individual work of students, which is included in the topics of practical classes, is evaluated during the current monitoring of mastering the topics of the sections in the corresponding classroom session. The assimilation of topics that are assigned to individual work is checked during the differential assessment.

The number of points for different types of individual independent student work (SIW) depends on its volume and significance, but no more than 10-12 points. These points are added to the sum of points scored to the student for the current educational activity, but the total sum should not exceed 120 points.

**Assessment of individual student's tasks.** In order to increase the arithmetic average of all grades received by the student while studying the discipline, the grade for individual assignments is awarded to the students only under the conditions of their successful completion and defense. The grade is added to the current grade.

**Current performance.** Evaluation of the success of studying each topic in the discipline is carried out on a traditional 4-point scale.

The following methods of student's learning outcomes monitoring are used: oral survey on the subject of the lesson; testing; solving practical cases; conducting clinical examinations of patients in the department, interpreting and evaluating their results, substantiating the diagnosis, determining indications for surgical

interventions, analyzing and evaluating the results of instrumental and laboratory tests; control of practical skills in first aid providing , etc.

Current educational activity of students is monitored in practical classes in accordance with specific goals and during individual work of the teacher with students.

At the end of the discipline study, the current progress is calculated as the average current score, that is, the arithmetic average of all the grades received by the student on a traditional scale, rounded to the nearest hundredth (for example: 4.46).

**Final control of the discipline mastering.** The form of final knowledge control is a differentiated assessment, which is done at the last lesson. Students who have completed all types of tasks provided for in the curriculum, have no academic debt and have obtained an average number of points for the current educational activity, not less than the minimum of 3.00, are admitted to the final examination.

The form of differential assessment is standardized and includes an oral survey of students, which is conducted by the head of the department, a professor or the head of the department. The means of determining the assimilation of the material (one question from three sections) are: evaluation of the student's theoretical and practical training on a 4-point (traditional) scale.

**Assessment of discipline.** The maximum number of points assigned to students for mastering each module (credit) is 200. In the overall evaluation of the current educational activity, students are awarded a maximum of 120 points (60%) for current progress and based on the results of the module final control (differentiated assessment) - 80 maximum points (40%), i.e. a maximum of 200 points in total for the subject.

When mastering each topic of the module for the current educational activity, the student is given grades on a traditional 4-point scale. After receiving grades for all topics of the module, an average grade is calculated, which is then converted into rating points for current performance using a special scale.

The maximum number of points for the final module control is 80.

The final module test is considered passed if the student scored at least 50 points.

A course grade is awarded only to students who have passed all the course modules.

The grade for the discipline is set as the average of the number of points obtained for all modules that make up the academic discipline.

At the decision of the department, incentive points can be added to the number of points in the discipline for students who have scientific publications, won prizes for participation in the Olympiad in the discipline among universities of Ukraine and higher educational institutes ( HEI), active members of students club, etc.

<b>Discipline average grade</b>	<b>Evaluation of the discipline on a 4-point scale</b>
4,45-5,0	5
3,75-4,44	4
3,0-3,74	3

The grade "excellent" is given in the case when the student knows the topics studied in full; gives comprehensive answers without any leading questions; expounds the material without errors and inaccuracies; freely solves cases and does practical tasks of varying degrees of complexity.

The grade "good" is given on the condition that the student knows all the topics and understands them well; answers questions correctly, consistently and systematically, but they are not comprehensive, although the student answers additional questions without mistakes; solves practical cases and performs practical tasks, experiencing difficulties only in the most difficult cases.



The grade "satisfactory" is assigned to the student on the basis of his knowledge of the entire scope of the topic from the subject at a satisfactory level of understanding. The student is able to solve simplified tasks with the help of leading questions; solves practical cases and performs practical skills, experiencing difficulties in simple cases; is unable to systematically give an answer on his own, but answers simple questions correctly.

An "unsatisfactory" grade is given in cases where the student's knowledge and skills do not meet the requirements for a "satisfactory" grade. The student is unable to answer simplified tasks even with the help of leading questions and is unable to solve practical cases.

#### Student's individual work

individual work of students involves independent processing of the educational material presented at the SRS and is carried out in the following forms: studying educational, specialized literature, directive documents, writing essays on the topics of missed classes, etc.

#### COURSE POLICY

Deadlines and exam retaking policy. All missed classes must be made up. Lectures are made up by writing

essays on the subject of the lesson. Practical classes are completed according to the consultation schedule.

Students do not have the right to redo the grade of the last lesson (differentiated assessment) and current satisfactory and unsatisfactory grades in order to increase the arithmetic average of all current grades.

During the semester students have the right to retake current unsatisfactory grades only with the purpose of achieving a current grade point average of 3.00.

Academic Integrity Policy: No plagiarism, student must be fluent in material.

Policy regarding class attendance and tardiness: the student must not miss lectures and practical classes, absences for valid reasons must be informed in advance to the teacher, tardiness is not welcome.

Mobile devices: it is not allowed to use a mobile phone, tablet or other mobile devices during the class (except for cases provided by the curriculum and methodical recommendations of the teacher).

Behavior in the audience: creative, businesslike, friendly atmosphere.