Kharkiv National Medical University

DEPARTMENT OF UROLOGY, NEPHROLOGY AND ANDROLOGY n. a. A. G. PODREZ

## SYLLABUS OF ACADEMIC DISCIPLINE

**UROLOGY\_**\_\_\_\_\_

(name of the academic discipline)

academic year 2020-2021

Field of Knowledge 22 Healthcare\_\_\_\_**\_\_\_\_\_\_\_\_\_\_\_\_\_**

(cipher and name of the field of knowledge)

specialty\_\_\_222 Medicine\_\_Second (master's) level\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(cipher and specialty name)

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| Syllabus of academic discipline was considered and approved at the meeting of the Department of Urology, Nephrology and Andrology named after A.G.PodrezProtocol from"28" August 2020 year No 22Head of department Lisoviy V.M. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (surname and initials) (signature)"\_27\_"\_\_August 2020 year  |  | Approved by the Methodical Commission of KhNMU on the problems of professional trainingsurgical profileProtocol from "\_\_\_\_\_"\_\_\_\_\_\_\_\_\_ year No\_Head \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Syplyviy V.O.(signature) (last name and initials) "\_\_\_\_\_"\_\_\_\_\_\_\_\_\_\_\_ year |

**Fourth year of study**

**Required items:**

Number of loans - 3

The total number of hours is 90.

Hours for full-time education: classrooms – 40, student's independent work – 50.

Year of preparation 4, semester 7 and 8.

Practical training 34 hours.

Independent work 50

Type of diff.scoring.

Place of practical classes: study room of the Department of Urology, Nephrology and Andrology n.a. A.G.Podrez on the basis of the CNE CHRC "Regional Medical Clinical Center of Urology and Nephrology named after. V.I. Shapoval"

Time of classes: Monday, Tuesday, Wednesday, Thursday, Friday (according to the schedule);

**Course Coordinators**

1. Garagatiy I.A. – responsible for the course of urology at the Departments of Urology, Nephrology and Andrology named after A.G. Podrez, MD, Professor.
2. Khareba H.H. - in theresponsible course of urology at the Department of Urology, Nephrology and Andrology named after A.G. Podrez, PhD, Associate Professor.

**Data on teachers teaching discipline**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| surname and initials | Contact phone. | E-mail: | Department address | Schedule of classes | Consultations |
| Garagatiy Ihor Anatoliyovych | 738-49-00 | ia.harahatyi@knmu.edu.ua | Ave. Moscow 195, CNE CHRC "RMCCUN n.a. V.I. Shapoval" | According to the schedule of classes | According to the consultation schedule |
| Khareba Hennadiy Hennadiyovych | 0930981120 | hh.khareba@knmu.edu.ua | ---''--- | ---''--- | ---''--- |
| Dmitriy Shchukin | 0675859206 | dv.shchukin@knmu.edu.ua | ---''--- | ---''--- | ---''--- |
| Andrei Arkatov | 0677167038 | av.arkatov@knmu.edu.ua | ---''--- | ---''--- | ---''--- |
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**Entry**

**The syllabus of the discipline** **"Urology"** was compiled in accordance with the educational and scientific program, the field of knowledge 22 - "Health Care", specialty - 222 "Medicine" master's degree in the specialty 222 "Medicine".

**Description of the discipline (abstract).** Course in urology is intended for students of the 4th year of medical faculties. During the course, practical classes are held covering a wide range of important medical problems.

The purpose of teaching the discipline "Urology" is to master the methods of diagnosis, treatment and prevention of diseases of the urinary and male reproductive system, and above all those that are most widespread. As a result of studying the discipline, the student must:

* interpret clinical anatomy, physiology and methods of study of the urinary and male reproductive systems
* determine etiological and pathogenetic factors of diseases of the urinary and male reproductive system
* make a preliminary diagnosis of the most common urological diseases
* determine the tactics of treatment of the patient in the most common diseases of the urinary and male reproductive systems
* diagnose and provide emergency medical care to patients with urological pathology
* use the basic principles of prevention of urological diseases

The main tasks of studying the discipline"Urology"is the acquisition by students of competencies in accordance with the general and professional competencies of the educational and professional program "Medicine" of the second (master) level of higher education in thespecialty 222 Medicine qualification Master of Medicine: possession of survey skills, determination of the principles and nature of treatment and prevention of complications of diseases of the male reproductive system, determination of tactics for the provision of emergency medical care, the definition of tactics for conducting a patient in comorbid pathology, maintaining medical documentation, the ability to apply knowledge in practical situations, understanding the subject area and professional activity, the ability to adapt and act in a new situation, making an informed decision, the ability to work in a team, act socially responsible and consciously.

Academic discipline is mandatory.

The format of the discipline is mixed.

**Teaching methods:** methodological recommendations for students, presentations, video materials, for distance learning: presentations on the topics of classes (for teaching in the Moodle and Zoom system), video materials, test tasks.

**Recommended literature**

1. Aubyan I. A. Mochekamennaya pain in tablets and schemes: informs. Affairs. [Text] / Abodyan I.A., Sknar V.A.- Rostov n/D, 2015.- 196 p.
2. Akker, L. V. Hyperactive woman’s ishuria in reproductive, peri- and menopause periods / L. V. Acker, A. I. Neimark, I. A. Fedorova, E. A. Klyzhina. - M.: Honey. inform. agency, 2015. . - 176 p.
3. Alyaev Y.G. Diseases of the genitourinary organs: a case-learner for practices, doctors [Text ] / Alyaev,V.A., Grigoryan, A.V. Amosov etc.;-M.:Litterra, 2011. – 118pp.
4. Atlas-handiwork by urologists. Red. A.F.Vosianov, A.V.Lyulko.-Dnepropetrovsk, 2002,- T. 1, 2, 3.
5. Vosianov A.F., Lesovoy V.N., Vosianov S.A., Hareba G.G. Diagnostics and hormone therapy of prostate cancer. – Kyiv: Book plus. 2004. –112c.
6. Vosianov S.O., Lisoviy V.M., Pasichnikov S.P., Hareba G.G. Prostate Cancer. Educational manual under the editor of Akad. Vosianov O.F. – Kyiv: Book plus. 2004. – 184 pp.
7. Davydov M.I. Investigation of urological patient [Text] / Davydov M.I.- Perm: Hello, 2013.- 135 p.p
8. Kwiatkovskaya T. A. Structure and function of the upper urinary tract: monograph [Text] / Kwiatkovskaya T.A.- Dnepropetrovsk: RIA Dnepr-VAL, 2015.- 414pp.
9. Kolpakov I. S. Stone disease: student assistance [Text] / Kolpakov I.S.- M.: Akademia, 2016.- 222 pp
10. Lisoviy V.M., Arkatov A.V., Knigavko O.V Male infertility: etiopathogenesis, diagnosis, treatment. H.: KhNMU. – 2011. - 128 p.
11. Lisoviy V.M., Arkatov A.V., Knigavko O.V. Clinical Andrology: textbook. – Kharkiv: KhNMU, 2012. – 308p.
12. Lopatkin N.A. Urology: textbook for students of institutions of higher professional education, studying in the specialty 060101.65 "General Medicine" in the discipline "Urology" [Electronic resource] / Red. N.A. Lopatkin. - 7th issue - M. : HEOTAR-Media, 2011. - 816 p. - Access mode: http://www.studmedlib.ru
13. Lyulko O.V. Urology: textbook / O.V. Lyulko, O.F. Vozianov. - 3rd issue — K.: "Medicine", 2015. - 664 p.
14. Pereverzev A.S. Infections in urology. – Kharkov: Fact, 2006. – 351 p.
15. Pereverzev A.S. Clinical urogynecology. Kharkov, 2000
16. Stepanov V.N. Atlas laparoscopic surgery in urology [Text] / Stepanov V.N., Kadyrov Z.A.- M.: Myklosh, 2011.- 122 p.
17. Urology scientific and medical publication / for ed. Professor S.P. Pasechnikov. — K.: Doctor-Media LLC, 2011. — 626 p.
18. Urology by Donald Smyth / ed.: 3. Tanaho, J. Macanincha. — M.: Practice, 2005. – 819pp.
19. Urology. Current protocols of medical care provision: scientific and medical publication / for ed. Professor S.P. Pasechnikov. — Vynnytsa: "New Book", 2015. — 432 p.
20. Urology. Edited by O.F.Vozianov, O.V. Lyulko. 2002.
21. Urology. Textbook for students of higher medical Institutions. Edited by Pasechnikov S.P. - Vynnytsa,2013. – 432pp.
22. Hinman F. Operative urology: atlas [Text] / Hynman F.; Pod ed. Y. G. Alaeva, V. A. Grigoryan.- M.: GEOTAR-Media, 2007.- 1192p.
23. Cystoscopy atlas / AP Frumkin. — M.: Samizdat, 2008. — 102 p.

**Information resources**

1. http://uroweb. org/ – website of the European Association of Urologists
2. [http://repo.](http://repo.knmu.edu.ua/) [knmu.](http://repo.knmu.edu.ua/) [edu.](http://repo.knmu.edu.ua/) [ua/](http://repo.knmu.edu.ua/) – repository of KhNMU
3. http://[andrologia.](http://www.onco.uroweb.ru/%22%20%5Ct%20%22_blank) [com.](http://www.onco.uroweb.ru/%22%20%5Ct%20%22_blank) [ua –](http://www.onco.uroweb.ru/%22%20%5Ct%20%22_blank) site of the clinic of andrology on the clinical basis of the department
4. [http://www.osvita.org.ua –](http://www.osvita.org.ua) Educational portal is all about education in Ukraine.
5. <http://nbuv.gov.ua> is the site of Vernadsky National Library of Ukraine.
6. 3. <http://korolenko.kharkov.com> – site of V.G. Korolenko Kharkiv State Scientific Library.

***Prerequisites****.* The study of discipline involves preliminary assimilation of credits in normal anatomy, normal physiology, pathological physiology, biophysics, biochemistry, clinical biochemistry, microbiology, virology and immunology, infectious diseases, pharmacology, surgery, urology, reanimatology, principles of evidence-based medicine.

***Postrequisites***. Together with the discipline, emergency medical care, Infectious diseases, clinical immunology, surgery should be studied.

**The results of training,** the formation of which is facilitated by discipline (relationship with the normative content of training of higher education applicants, formulated in terms of the results of training in the Standard).

In accordance with the requirements of the standard, discipline ensures the acquisition of students

***competencies*:**

*integral:* ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of healthcare;integrate knowledge and solve complex issues, formulate judgments with insufficient or limited information; clearly and unambiguously communicate their conclusions and knowledge, reasonablysubstantiating them, to a professional audience;

*general competencies:* ability to act socially responsibly and civilly consciously; abilityto apply knowledge in practical situations; ability to abstract thinking, analysis and synthesis; from dated to adaptation and action in a newsituation; ability to make informed decisions; skills of using information and communication technologies.

*special (professional) competencies*: ability to establish a preliminary and clinical diagnosis of the disease, with a date to determine the principles and nature of treatmentof diseases, the ability to maintain medical documentation.

**Program learning outcomes:** ability to apply acquired knowledge, skills and understanding to solve typical tasks of a doctor's activity, the scope of which is provided for lists of syndromes and symptoms, diseases, emergency conditions, laboratory and instrumental studies, medical manipulations; collection of information about the patient; evaluation of survey results, physical examination, laboratory and instrumental studies data; establishment of a preliminary clinical diagnosis of the disease; determination of the nature, principles of treatment of diseases; diagnosis of emergency conditions, determination of tactics for the provision of emergency medical care; the development of a specialist with proper personal qualities.

**Organization of training – educational and thematic plan**

|  |  |  |
| --- | --- | --- |
| **N/****N** | **Subject Title** | **Number****Hours** |
| 1 | Clinical anatomy, physiology of the urinary and male reproductive system.  | 2 |
| 2 | Anomalies of the development of the urinary and male reproductive system. | 2 |
| 3 | Semiotics of urological diseases. | 3 |
| 4 | Modern methods of examination of urological patients. | 3 |
| 5 | Acute pielonephritis. Chronic pielonephritis. | 3 |
| 6 | Pyelonephritis. Pionefrosis. Acute and chronic paranephritis. | 3 |
| 7 | Cystitis. Prostatitis. Urethritis. Epididimite. Cavernite. Cystalgia. | 2 |
| 8 | Tuberculosis of the urinary and male reproductive system. | 2 |
| 9 | Urolithiasis, hydronephrosis. | 3 |
| 10 | Acute and chronic renal failure. | 2 |
| 11 | Tumors of the urinary and male reproductive system. | 3 |
| 12 | Emergency care for diseases of the urogenital system. | 2 |
| 13 | Traumatic damage to the organs of the urogenital system. | 2 |
| 14 | Differential scoring | 2 |
| All hours of practical classes | 34 |

**Independent work**

|  |  |  |
| --- | --- | --- |
| **N/****N** | **Subject Title** | **Number****Hours** |
| 1 | Clinical anatomy, physiology of the urinary and male reproductive system.  | 3 |
| 2 | Anomalies of the development of the urinary and male reproductive system. | 3 |
| 3 | Semiotics of urological diseases. | 3 |
| 4 | Modern methods of examination of urological patients. | 3 |
| 5 | Acute pielonephritis. Chronic pielonephritis. | 3 |
| 6 | Pyelonephritis. Pionefrosis. Acute and chronic paranephritis. | 3 |
| 7 | Cystitis. Prostatitis. Urethritis. Epididimite. Cavernite. Cystalgia. | 3 |
| 8 | Tuberculosis of the urinary and male reproductive system. | 3 |
| 9 | Urolithiasis, hydronephrosis. | 3 |
| 10 | Acute and chronic renal failure. | 3 |
| 11 | Tumors of the urinary and male reproductive system. | 3 |
| 12 | Emergency care for diseases of the urogenital system. | 3 |
| 13 | Traumatic damage to the organs of the urogenital system. | 3 |
| 14 | Endoscopic research methods. | 3 |
| 15 | Nephrogenic arterial hypertension. | 3 |
| 16 | Neurogenic urination disorders | 2 |
| 17 | Nephroptosis, hydronephrosis | 3 |
| All hours of student independent work | 50 |

**LIST OF QUESTIONS TO THE DIFFERENTIAL** **TEST**

1. Pain in urological disease
2. Urine analysis in urological diseases
3. Ultrasound investigation of the genitourinary system is normal
4. Equipment and tools used for diagnosis in modern urological practice
5. Acute urine retention. Chronic urine retention.
6. Clinical and biochemical blood tests
7. PSA blood test. Oncomarkers in urology
8. Laboratory research in urology
9. Ultrasonication in Urology
10. X-ray examination in urology – examination and excretory urography
11. X-ray examination in urology – antegrade and retrograde urography
12. X-ray examination in urology – cystography, urethrography
13. CT, MRI in urology
14. Anomalies of position, relationship, structure of the kidneys
15. Bladder abnormalities
16. Epispadia, hypospadias
17. Testicular abnormalities
18. Nonspecific inflammatory diseases of the kidneys and extra-abdominal fiber
19. Clinic, diagnosis of acute pyelonephritis
20. Surgical treatment of acute pyelonephritis
21. Conservative treatment of acute pyelonephritis
22. Paranephritis. Clinic, diagnosis, treatment
23. Retroperitoneum fibrosis. Clinic, diagnosis, treatment
24. Etiology, pathogenesis of chronic pyelonephritis
25. Classicization of chronic pyelonephritis
26. Complications and consequences of chronic pyelonephritis
27. Classification of paranephritis
28. Clinical manifestations of paranephritis
29. Diagnosis and treatment of paranephritis
30. Nonspecific inflammatory diseases of the male genital organs
31. Inflammatory diseases of the penis
32. Inflammatory diseases of the scrotum organs
33. Epididymite. Etiology, pathogenesis, clinical manifestations, methods of diagnosis and treatment
34. Orchitis. Etiology, pathogenesis, clinical manifestations, methods of diagnosis and treatment
35. Orchitis. Methods of diagnosis and treatment
36. Inflammatory diseases of the seminal vesicles (spermatocystitis)
37. Urethritis. Clinic, diagnosis, treatment
38. Etiology, pathogenesis, classification of chronic prostatitis
39. Diagnosis of chronic prostatitis
40. Modern methods of treatment of chronic prostatitis
41. Complications of chronic prostatitis
42. Etiology, pathogenesis, classification of cystitis. Clinical manifestations of cystitis
43. Diagnosis of cystitis. Methods of treatment of cystitis
44. Methods of diagnosis of urosepsis
45. Treatment and prevention of urosepsis.
46. Urethritis. Clinic, diagnosis, treatment
47. Etiology, pathogenesis, classification of urethritis
48. Methods of diagnosis and treatment of urethritis
49. Kidney and urethra stones
50. Etiology, pathogenesis, clinical manifestations of Stone Disease.
51. Diagnosis, conservative treatment of Stone Disease.
52. Surgical treatment of Stone Disease.
53. Etiology, pathogenesis, clinical manifestations, methods of diagnosis and treatment of bladder stones.
54. Prevention and metaphylaxis of Stone Disease.
55. Complications of Stone Disease.
56. Incapacitation in nonspecific inflammatory processes and Stone Disease
57. Etiology of kidney and urinary tract tuberculosis
58. Pathological anatomy, classification of tuberculosis
59. Clinical manifestations of kidney and urinary tract tuberculosis
60. Atypical forms of kidney and urinary tract tuberculosis
61. Features of the course of kidney and urinary tract tuberculosis
62. Connective forms of kidney and urinary tract tuberculosis
63. Diagnosis of kidney and urinary tract tuberculosis
64. Consequences of kidney and urinary tract tuberculosis
65. Complications of kidney and urinary tract tuberculosis
66. Conservative treatment of kidney and urinary tract tuberculosis
67. Surgical treatment of kidney and urinary tract tuberculosis
68. Classification of male genital tuberculosis
69. Clinical manifestations of male genital tuberculosis
70. Diagnosis of male genital tuberculosis
71. Surgical treatment of male genital tuberculosis
72. Conservative treatment of male genital tuberculosis
73. Mechanism of kidney damage
74. Classification of kidney damage: open, closed, cumulative injury
75. Clinic of kidney injuries. Local and common symptoms. Features of cumulative injuries
76. Diagnosis of kidney injuries. History. Review
77. X-rays of kidney injuries. Ultrasound.
78. Indications for conservative and surgical treatment of kidney injuries
79. Causes and mechanism of bladder damage
80. Binder connective damage
81. Clinical manifestations. Diagnosis, treatment of the bladder
82. Drainage of the bladder and retroperitoneum space
83. Complications and their treatment
84. Foreign bodies of the bladder
85. Chemical burns of the bladder
86. Causes and mechanisms of urethra injury. Diagnosis of urethra injuries
87. X-rays. Urethrocystography
88. Conservative and surgical treatment.
89. Indications for cystostomy, the primary seam of the urethra
90. Urinary leak. Phlegmons. Urinary fistulas.
91. Structure of urethra. Methods of plastic surgery
92. Causes and mechanism of damage to the external genital organs
93. Connective damage of the external genital organs
94. Clinical manifestations. Diagnosis, treatment of external genital organs
95. Complications of injuries of external genital organs and their treatment
96. Foreign bodies of the external genital organs
97. Treatment of complications of injuries of external genital organs
98. Cumulative urethra injury. Diagnostics
99. Clinic, diagnosis of urethra injuries
100. Surgical treatment of urethra injuries
101. Indications for nephrectomy in ureter injuries
102. Tumors of the parenchyma of the kidneys. Clinic, diagnostics
103. Tumors of the upper urinary tract. Clinic, diagnostics
104. Tumors of the adrenal gland. Clinic, diagnostics
105. Tumors of retroperitoneum space. Clinic, diagnostics
106. Bladder tumors. Clinic, diagnostics
107. Etiology, pathogenesis, histological forms of bladder tumors
108. Clinical and international classification of bladder tumors
109. Diagnostics. Conservative treatment of bladder tumors
110. Methods of surgical treatment of bladder tumors
111. Combined and complex treatment of bladder tumors
112. Tumors of the urethra. Histological forms. Clinical stages
113. Modern diagnosis of urethra tumors
114. Methods of surgical treatment of urethra tumors
115. Combined and complex treatment of urethra tumors
116. Drug treatment of BPH
117. Surgical treatment of BPH
118. Endoscopic procedures for BPH.
119. Prostate cancer. International classifications.
120. X-ray diagnostic of Cancer of Prostate.
121. Ultrasound diagnostics, computer and magneto-resonance imaging in the diagnosis of CP
122. Indications for surgical treatment of CP. Operational access.
123. Indications for conservative treatment of CP.
124. Combined treatment of CP
125. Chemotherapy CP.
126. Radiation diagnostics of CP
127. Remote results of CP treatment. Quality of life of patients with CP.
128. Dispensary of patients with oncourological diseases
129. Medical treatment of testicular tumors
130. Surgical treatment of testicular tumors
131. Prevention of the incidence of testicular tumors
132. Acute pyelonephritis of pregnant women
133. Etiology, pathogenesis of pyelonephritis of pregnant women
134. Non-invasive methods for diagnosing pyelonephritis of pregnant women
135. Methods of conservative treatment of pyelonephritis of pregnant women
136. Surgical treatment of acute pyelonephritis of pregnant women
137. Damage to the urethra during gynecological operations
138. Bladder damage during gynecological operations
139. Modern non-invasive methods for diagnosing urinary injury
140. Damage to the urinary organs during gynecological and obstetric operations
141. Bubble-vaginal minks
142. Urinary-vaginal minks
143. Incontinence in women
144. Urogenital minks and incontinence
145. Infertility in men
146. Etiology, pathogenesis, clinical manifestations of infertility in men
147. Diagnosis of infertility
148. Treatment of infertility
149. Prevention of infertility
150. Ejaculation's changes in infertility
151. Male climax, classification, clinical manifestations, diagnosis, treatment. Prevention
152. Neurogenic impotence
153. Endocrine impotence
154. Modern methods for diagnosing erectile dysfunction
155. Clinical manifestations of erectile dysfunction
156. Medical treatment of erectile dysfunction
157. Preventive measures for erectile dysfunction
158. Surgical anatomy of the upper urinary tract, access to the peritoneum cavity
159. Surgical access to the bladder and ureter
160. Features of surgical interventions on the organs of the scrotum.
161. Hemiresection of the kidney
162. Nephrostomy, decapsulation of the kidney, urethrostomy.
163. Nephroureterectomy, pyelolithotomy
164. Nephrectomy, cystostomy, urine diversion methods.
165. Pyelolithotomy, cystotomy
166. Prostate abscess puncture, trocar cystostomy
167. Kidney stitching, kidney resection, nephrectomy
168. Plastics of the urethra, tunneling of the urethra, TUR
169. TUR, bladder resection
170. Uretherosigmoanastomosis
171. Covering the prostate abscess,
172. Operation of Ivanisevich
173. intensive care and resuscitation in urology
174. Genital surgery
175. Kidney surgery
176. Surgery on the urethra
177. Bladder surgery
178. Urethrae's operations
179. Operations on the external genitals
180. Operations on PUJ
181. Uretherocysthoneostomy, operation Boari
182. Overlay of arterio-venous shunt, fistula
183. Acute renal failure.
184. Chronic renal failure
185. Parenchymatous forms of neurogenic hypertension
186. Vasorenal form of nephrogenic hypertension.
187. The frequency of nephrogenic hypertension.
188. Pathogenesis, diagnosis, treatment of nephrogenic hypertension
189. Diagnosis, treatment of nephrogenic hypertension
190. The value of renal angiography in the diagnosis of nephrogenic hypertension
191. Modern methods of diagnosis of nephrogenic hypertension

**Course Policy**

To achieve the goals of training and successfully pass the course, you must: from the first day to be included in the work; regularly visit, do not be late and do not miss practical classes; regularly prepare the material in advance, for its consideration in a practical class; when attending practical classes, you must be dressed in a medical gown, have replaceable shoes and surgical uniforms, have a notebook, pen with you; perform all the necessary homework and actively work in practical classes; if necessary, seek help and receive it when you need it.

Students can discuss various tasks, but their implementation is strictly individual. Write-offs, use of various kinds of software, hints, use of a mobile phone, tablet or other electronic gadgets during class are not allowed. Students are not allowed to be late for practical classes. Misses of practical classes are worked out an hour an hour for a group teacher or another teacher. Reception of works and consultations is carried out daily from 1500 – 1700on Saturdays in accordance with the "Regulations on the procedure for students to work out training sessions" of 07.12.2015 No 415.

Students with special needs should meet with the teacher or warn him before the start of classes, at the request of the student, this can be done by the head of the group. If you have any questions, please contact the teacher.

**Control methods**

**Organization of current control**. The following means of assessing the level of training of students are used: computer tests, solving situational problems according to the topic of the lesson. Assessment is carried out according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory". The conversion of the average grade for the current educational activity into a multi-point scale is carried out in accordance with the "Instructions for evaluating the educational activity of students…" or the average grade (to the nearest hundredth) for IPA teacher automatically receives using the electronic journal ACS. The minimum number of points that a student must score for the current activity during the study of the section is 120 points, the maximum number of points - 200 points. **The test** is given to students who do not have academic debt and have at least 120 points (average score for current academic activities is at least 3.0).

**Evaluation of students' independent work.** Independent work of students, which is provided for by the topic of the lesson along with classroom work, is evaluated during the current control of the topic in the relevant class.

**Assessment of individual student tasks** is carried out under the conditions of the teacher's tasks (report of the abstract in a practical lesson, report with a presentation in a practical lesson, report at scientific and practical conferences of the department, university, writing abstracts, articles, participation in the All-Ukrainian Olympiad). Points (not more than 10) are added as incentives. The total amount of points for the current educational activity and discipline may not exceed 200 points.

Head of department of

urology, nephrology and andrology

n.a. A. G. Podrez

MD, Ph.D., Professor V. M. Lisoviy