federal state budgetary

educational institution of higher education

"Orenburg State Medical University"

Ministry of Health of the Russian Federation

Department of Faculty Surgery

**GUIDELINES**

**FOR THE TEACHER**

**ORGANIZING THE STUDY OF THE DISCIPLINE**

**"UROLOGY"**

**BY SPECIALTY**

**31.05.01 – MEDICAL BUSINESS**

( Faculty of foreign students)

It is part of the main professional educational program of higher education in the specialty 31.05.01 - General Medicine, approved by the Academic Council of the Orgmu of the Ministry of Health of Russia

Protocol No. 8 dated March 25, 2016

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1. **Methodological recommendations for the lecture course .**

**Lecture number 1.**

**Topic: “Emergency conditions in urology. Injury to the MPS organs (kidney, bladder, urethra, scrotal organs, penis, foreign bodies of the urethra).**

**Purpose:** to present and consolidate educational material related to the study of etiology, pathogenesis, classification, clinic, methods of diagnosis and surgical treatment of emergency conditions in urology, injuries of MPS organs.

**Abstract of the lecture:** The lecture outlines the causes, clinic, diagnosis and modern methods of treatment of emergency conditions in urology. The issues of clinic, diagnosis and treatment of MPS injuries are considered. Modern diagnostic methods are given: non-invasive (examination of the patient, ultrasound, CT) and invasive (diagnostic laparoscopy). When considering the issues of treatment of injuries of the MPS organs, options for surgical interventions are considered in detail, and the main emphasis is placed on minimally invasive technologies.

**Form of organization of the lecture:** in terms of content - a traditional (informational) lecture, in terms of didactic purpose - explanatory.

**Teaching methods used in the lecture:** oral presentation of information, maintaining attention for a long time, activating the thinking of listeners, ensuring logical memorization, persuasion, argumentation , evidence, classification, systematization, generalization, emotionality.

**Teaching aids** :

- didactic (presentation with tables and diagrams);

- logistical (personal computer, laser pointer, multimedia projector).

**Lecture number 2.**

**Topic: "Acute non-specific infectious and inflammatory diseases of the MPS organs (acute pyelonephritis, bacteriotoxic shock, gestational pyelonephritis, paranephritis, cystitis, prostatitis, epididymo -orchitis ".**

**Purpose:** to present and consolidate educational material related to the study of the etiology, pathogenesis, classification, clinic, methods of diagnosis and surgical treatment of acute non-specific infectious and inflammatory diseases of the MPS organs.

**Abstract of the lecture:** The lecture is devoted to the study of acute non-specific infectious and inflammatory diseases of the organs of the MPS and the factors influencing their occurrence. Modern data on etiology and pathogenetic mechanisms of development of this category of diseases are presented . The methods of conservative and surgical treatment of this group of diseases are described in detail.

**Form of organization of the lecture:** in terms of content - a traditional (informational) lecture, in terms of didactic purpose - explanatory.

**Teaching methods used in the lecture:** oral presentation of information, maintaining attention for a long time, activating the thinking of listeners, ensuring logical memorization, persuasion, argumentation, evidence, classification, systematization, generalization, emotionality.

**Teaching aids** :

- didactic (presentation with tables and diagrams);

- logistical (personal computer, laser pointer, multimedia projector).

**Lecture number 3.**

**Topic: "Urolithiasis".**

**Purpose:** to present and consolidate educational material related to the study of the etiology, pathogenesis, classification, clinic, methods of diagnosis and surgical treatment of urolithiasis.

## **Lecture summary:** The lecture deals with the issues of etiology, pathogenesis, classification, clinical and instrumental diagnosis of urolithiasis. The main issues of diagnosis, tactics and treatment of complications of KSD are described, taking into account modern clinical recommendations. A special role belongs to the prevention, timely diagnosis and treatment of this pathology. The lecture has a practical focus and allows students to acquire knowledge on the diagnosis of urolithiasis and its complications, to assess the significance of additional research methods.

## **Form of organization of the lecture:** in terms of content - a traditional (informational) lecture, in terms of didactic purpose - explanatory.

**Teaching methods used in the lecture:** oral presentation of information, maintaining attention for a long time, activating the thinking of listeners, ensuring logical memorization, persuasion, argumentation, evidence, classification, systematization, generalization, emotionality.

**Teaching aids** :

- didactic (presentation with tables and diagrams);

- logistical (personal computer, laser pointer, multimedia projector).

**Lecture number 4.**

**Topic: Fundamentals of oncourology (tumors of the kidney, bladder, BPH, prostate cancer).**

**Purpose:** to present and consolidate educational material related to the study of the etiology and pathogenesis of BPH and neoplasms of the kidneys, bladder, prostate, as well as the classification, clinic, methods of diagnosis and surgical treatment of this pathology.

## **Lecture summary:** The lecture deals with the issues of etiopathogenesis from modern positions. benign and malignant formations of MPS , features of clinical manifestations in various forms of the disease. The possibilities of methods for diagnosing oncopathology of the genitourinary organs and their complications are considered. Algorithmic approaches to the choice of treatment methods are given, the possibilities of modern diagnostic and treatment technologies in various cases are discussed.

## **Form of organization of the lecture:** in terms of content - a traditional (informational) lecture, in terms of didactic purpose - explanatory.

**Teaching methods used in the lecture:** oral presentation of information, maintaining attention for a long time, activating the thinking of listeners, ensuring logical memorization, persuasion, argumentation, evidence, classification, systematization, generalization, emotionality.

**Teaching aids** :

- didactic (presentation with tables and diagrams);

- logistical (personal computer, laser pointer, multimedia projector).

**2. Guidelines for conducting practical exercises.**

**Topic 1: “MPS anomalies. Hydronephrosis. Symptomatology of urological diseases (beginning).**

**Type of training session:** practical session.

**Purpose:** mastering the theoretical foundations and developing practical skills for diagnosing MPS anomalies and their complications. Consideration of issues related to the etiology, pathogenesis, clinic, diagnosis and treatment of hydronephrosis. Study of the symptomatology of major urological diseases.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests).  Practical training on a clinical basis (working out the skills to identify the symptoms of the disease). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, charts, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 2: “Symptomatology of urological diseases (end). BPH, prostate cancer.**

**Type of training session:** practical session.

**Purpose:** development and consolidation of the main symptoms of urological diseases. Consideration of issues related to the etiology, pathogenesis, clinic, diagnosis and treatment of BPH and prostate cancer.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, charts, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 3: “Instrumental methods of diagnostics and treatment. ICD.".**

**Type of training session:** practical session.

**Purpose:** analysis of methods of instrumental diagnostics and treatment in urology. О mastering the theoretical foundations and developing practical skills for diagnosing KSD and its complications, providing emergency medical care, determining the choice of appropriate methods for treating complications of urolithiasis.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, charts, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 4: “X-ray diagnostic methods. Ultrasound diagnosis. Radioisotope methods of diagnostics”.**

**Type of training session:** practical session.

**Purpose:** mastering X-ray, ultrasound and radioisotope diagnostic methods in urology. Determination of indications and contraindications for various research methods. Interpretation of results.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, diagrams, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 5: "Acute non-specific inflammatory diseases (pyelonephritis, bacteriotoxic shock, gestational pyelonephritis, paranephritis, cystitis, prostatitis, prostate abscess, orchitis, epididymoorchitis , urethritis, cavernitis, balanoposthitis , chronic balanoposthitis ). Chronic pyelonephritis. Nephrogenic hypertension. Tuberculosis of the organs of the MPS.**

**Type of training session:** practical session.

**Purpose:** mastering the theoretical foundations and developing practical skills for diagnosing acute nonspecific inflammatory diseases of MPS, providing emergency medical care, determining the choice of appropriate treatment methods. Consideration of issues of etiology, pathogenesis, clinic, diagnosis, differential diagnosis and treatment of chronic pyelonephritis, nephrogenic hypertension, tuberculosis of the MPS organs.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, charts, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 6: " Okourology (except for BPH and prostate cancer) - tumors of the kidney, bladder, testicle, penis."**

**Type of training session:** practical session.

**Purpose:** mastering the theoretical foundations and developing practical skills for diagnosing tumors of the kidney, bladder, testicle, penis, providing emergency medical care, determining the choice of appropriate methods for treating complications of these pathological conditions.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, charts, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 7: "Emergency urology (emergency care for renal colic, anuria - acute renal failure, hematuria, AUR, torsion hydatid testis and epididymis, testicular torsion, paraphimosis, Fournier 's gangrene , priapism . Help with trauma to the organs of the MPS.**

**Type of training session:** practical session.

**Purpose:** mastering the theoretical foundations and developing practical skills for diagnosing and providing emergency medical care, determining the choice of appropriate methods of treatment for emergency conditions in urology. Consideration of the issues of rendering assistance in case of injuries of the organs of the MPS.

**The plan of the training session** ( the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson.  Motivational moment ( the relevance of studying the topic of the lesson) |
| 2 | **Entrance control, updating of basic knowledge, skills** (written survey). |
| 3 | **The main part of the lesson:**  Consolidation of theoretical material (oral survey).  Development of practical skills and abilities (situational tasks, tests). |
| 4 | **Final part of the lesson:**  Summing up the lesson.  Submission of current grades to the educational journal.  Task for self-preparation of students (preparation of monothematic messages). |

**Means of education:**

- didactic (tables, charts, posters, handouts);

- material and technical (chalk, blackboard, multimedia projector).

**Topic 8: " Testing lesson ".**

**Type of training session:** practical session.

**Purpose:** assessment of the assimilation of the material covered for the cycle by accepting credit for tickets.

**Plan of the training session** (the time frame of the stages varies):

|  |  |
| --- | --- |
| No.  n / n | Stages and content of the lesson |
| one | **Organizing time:**  Announcement of the topic, purpose of the lesson. |
| 2 | **The main part of the lesson:**  Acceptance of offset |
| 3 | **Final part of the lesson:**  Summing up the cycle. |

**Means of education:**

- material and technical (chalk, blackboard, multimedia projector).