MINISTRY OF HEALTH OF THE REPUBLIC OF BELARUS

 «VITEBSK STATE ORDER OF PEOPLES’ FRIENDSHIP

MEDICAL UNIVERSITY»

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY

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**METHODOLOGICAL INSTRUCTIONS FOR STUDENTS**

**for clinical practical classes**

in the discipline “Obstetrics and Gynecology”

speciality 1-79 01 01 “General Medicine”

V course Faculty of overseas students training

full-time education

**Lesson Topic:** Non-specific pelvic inflammatory diseases. Urgent gynecological diseases (pyosalpinx, tubo-ovarian, pelvic abscess).

**Duration of the class:** 5 hours

**Authors:**

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**Motivational characteristics of the necessity of studying the topic:**

Inflammatory diseases of female genital organs occupy a leading place in the structure of gynecological diseases and constitute 60-65% among gynecological patients who have applied to antenatal clinics, 20-30% among patients who need inpatient treatment. Inflammatory processes are a common cause of infertility, ectopic pregnancy, chronic pelvic pain, miscarriage, play an important role in the development of fetoplacental insufficiency, diseases of the fetus and newborn. Knowledge of the causes, methods of diagnosis, treatment and prevention of inflammatory diseases of female genital organs is necessary for doctors of all specialties in their practical activities.

**Goals and objectives of the class:**

**Learning goals**

To know the etiology, pathogenesis, classification, diagnostics and the clinical course of inflammatory diseases of nonspecific etiology: vulvitis, bartholinitis, colpitis, cervicitis, endometritis, salpingo-oophoritis (adnexitis), parametritis, pelviperitonitis.

To study principles of treatment and prevention of inflammatory diseases of nonspecific etiology. Rehabilitation of women after the diseases suffered.

**Developmental goals**

 Formation of clinical mindset, development of attentiveness and observation while performing practical clinical tasks, development and improvement of communication skills “doctor-patient”, strengthening interest in the study of the topic of the class and nephrology in general.

**Formative goals**

 Formation and development of the sense of mutual assistance, subordination, tact, empathy, responsibility for the assigned work, efficiency, accuracy, conscientiousness, understanding of the importance of the profession, familiarization with the norms of professional activity taking into account medical ethics and deontology in the management of nephrology patients.

**Lesson objectives**

During the study of the topic of the training session the student should

**learn:**

* classification of pelvic inflammatory diseases;
* characteristics of microflora of the vagina;
* etiology, pathogenesis of non-specific genital inflammatory diseases;
* clinical symptoms of non-specific pelvic inflammatory diseases, including tubo-ovarian abscess;
* diagnostical methods of inflammatory gynecological diseases;
* differential diagnosis of inflammatory gynecological diseases;
* principles of inflammatory gynecological diseases treatment;
* emergency care for patients with tubo-ovarian abscess, indications for surgical treatment;
* dispensary management of patients with chronic genitals inflammatory diseases;
* prevention of inflammatory diseases of the female genital organs;

**be able to:**

* сarry out objective gynecological examination of a patient with inflammatory disease of the genitals;
* сhart a survey plan for diagnosis;
* make a differential diagnosis between acute and chronical inflammatory process;
* interpret the results of clinical and laboratory examination of patient with inflammatory process of female genital organs and make a diagnosis;
* provide emergency care for patient with acute inflammatory process of female genital organs.

**practice:**

* basic techniques for examining patients with inflammatory disease of the genitals.

**Practical skills to be formed when class is conducted, including with the use of simulation training technologies:**

1. Examination of the cervix in speculum.

2. Bimanual vaginal-abdominal examination.

**Interdisciplinary and intra-disciplinary links**

For a full understanding of the topic of the class in the study, interpretation of the data obtained laboratory and instrumental methods of research, it is necessary to be guided by previous knowledge in the field of normal and pathological physiology, anatomy (including topographic), biochemistry, histology, pharmacology, propaedeutics of internal medicine, infectious diseases, clinical immunology and allergology.

**Theoretical part**

All necessary information for preparation for the lesson can be found in the distance learning system of VSMU (Faculties→ Faculty of Medicine→ Department of Obstetrics and Gynecology → Obstetrics and Gynecology (5th year Overseas Students Training Faculty). The presentation of theoretical material should be deep, consistent in accordance with the list of control questions on the topic of the class. References to the used sources should be indicated in the process of their mentioning according to the list of used literature. When presenting issues related to diagnosis and treatment, it is recommended to emphasize modern methods and recommendations (according to clinical protocols of the Ministry of Health of the Republic of Belarus, national and international clinical guidelines).

**Classroom control questions:**

1. Classification of inflammatory diseases of the female genital organs.

2. Characteristics of vaginal biocenoses.

3. Pathogenetic mechanisms of infection, routes of infection, risk factors, physiological barriers.

4. Features of the course of PID in modern conditions.

5. Provide a definition of acute, subacute and chronic inflammatory process.

6. Bartholinitis: etiology, clinical features, diagnostics, treatment.

7. Vulvitis: etiology, clinical features, diagnostics, treatment. Features of vulvovaginitis in girls.

8. Colpitis: etiology, clinical features, diagnostics, treatment.

9. Endocervicitis: etiology, clinical features, diagnostics, treatment.

10. Inflammatory diseases of the uterus (endometritis, metroendometritis): etiology, clinical features, diagnostics and treatment.

11. Salpingo-oophoritis: etiology, clinical features, diagnostics, treatment, complications.

12. Parametritis: etiology, clinical features, diagnostics, treatment.

13. Pelvioperitonitis: etiology, clinical features, diagnostics, treatment.

14. Basic principles of treatment of patients with acute inflammatory processes of female genital organs of non-specific etiology:

- antibacterial therapy: indications, principles of selection of antibiotics;

- desensitizing and detoxifying therapy of inflammatory processes of the genitals;

- indications for surgical treatment, volumes of surgical intervention.

15. Clinical features of chronic inflammatory processes of female genital organs.

16. Methods of diagnostics of chronic inflammatory processes of female genital organs.

17. Differential diagnostics of acute and chronic inflammatory processes of female genital organs.

18. Treatment methods for chronic inflammatory diseases of the female genital organs.

19. Principles of antibiotic therapy for inflammatory diseases of the female genital organs;

20. Purulent tubo-ovarian formations of the appendages: etiology, classification, clinical picture, diagnostics, differential diagnostics, complications, treatment.

21. Indications for surgical treatment of purulent tubo-ovarian formations and the volume of surgical intervention.

22. Rehabilitation of patients with inflammatory processes of the female genital organs.

23. Physiotherapeutic methods of treatment of PID.

24. Medical prevention of inflammatory diseases of the female genital organs.

**Practical part**

Solving clinical tasks – see the topic "Infections of the pelvic organs" in the manual Obstetrics and gynecology: clinical tasks: a manual for students of higher education institutions studying in the specialty 1-79 01 01 "General Medicine" / L.E. Radeckaya [et al.]; Ministry of Health of the Republic of Belarus, UO "Vitebsk State Order of Peoples’ Friendship Medical University", Department of Obstetrics and Gynecology. - Vitebsk: [VSMU], 2021. - 67 p. - <https://do2.vsmu.by/pluginfile.php/323312/mod_resource/content/0/Radeckaya-LE_Obstetrics_and_gynecology_clinical_tasks_2021.pdf>

Algorithms for completing practical skills can be found at <https://do2.vsmu.by/course/view.php?id=2062> (practical section, manual on practical skills in obstetrics and gynecology - video)

**LITERATURE:**

**Basic:**

1. Dutta D.C. Textbook of gynecology including contraception / textbook / Calcutta: New central book Agency (P) Ltd. - 2016. -574 P.

2. Гинекология : пособие / Н.И. Киселева [и др.]; под общ. ред. Н.И. Киселевой. – Витебск : ВГМУ, 2022. – 478 с.

**Additional:**

1. Сборник тестовых заданий по гинекологии для специальности 1-79 01 01 "Лечебное дело" = Multiple choice questionnaire on gynecology for the specialty 1-79 01 01 "General practice" / Л. Е. Радецкая [и др.]. - Витебск : ВГМУ, 2020. - 63 с. - Режим доступа: https://elib.vsmu.by/handle/123/22320

 2. Obstetrics and gynecology: practical skills = Акушерство и гинекология: практические навыки : метод. рекомендации / Л. Е. Радецкая [и др.] ; М-во здравоохранения Республики Беларусь, УО "Витебский гос. ордена Дружбы народов мед. ун-т", Каф. акушерства и гинекологии. - (2-е изд., перераб. и доп.). - Витебск : ВГМУ, 2020. - 68 с. : ил. - Библиогр.: с. 67-68. - ISBN 978-985-580-009-6. - Режим доступа: https://elib.vsmu.by/handle/123/22909

3. Radeckaya, L. E. Obstetrics and gynecology: clinical tasks = Акушерство и гинекология: клинические задачи : метод. рекомендации / L. E. Radeckaya, E. A. Kolbasova ; М-во здравоохранения Республики Беларусь, УО "Витебский гос. ордена Дружбы народов мед. ун-т", Каф. акушерства и гинекологии. - Витебск : [ВГМУ], 2021. - 66 с. - Режим доступа: https://elib.vsmu.by/handle/123/23638

 4. Radzinskiy, V. Е. (Радзинский В. Е. ) Gynecology : textbook / ed. by Radzinskiy V. Е. , Fuks А. М. - Москва : ГЭОТАР-Медиа, 2020. - 896 с. Режим доступа: https://www.studentlibrary.ru/book/ISBN9785970457993.html