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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|  | Approved at the meeting of the department  Protocol №1 02.09.2024 |

**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:** Emergency conditions in gynecology.

**Duration of the class:** 5 hours

**Authors:**

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Vitebsk, 2024 year

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

The clinic of "acute" abdomen in gynecological practice occurs in diseases accompanied by internal bleeding (ectopic pregnancy, ovarian apoplexy), inflammation of the pelvic organs (pelvic peritonitis, tubo-ovarian inflammatory lesions), as well as in case of impaired blood supply to tumors of the pelvic organs (torsion of the ovarian tumor pedicle, necrosis of the myomatous node). At present, there is an increase in the incidence of ectopic pregnancy, chronic inflammatory diseases with complicated course, benign tumors of the uterus and appendages. The number of artificial abortions is slowly decreasing but the incidence of spontaneous termination of pregnancy, accompanied by all sorts of complications, is not decreasing. Therefore, knowledge and skills to promptly diagnose, quickly provide emergency care in case of these gynecological diseases and their complications are necessary for a gynecologist.

**Goals and objectives of the class:**

**Learning goals**

To know the etiology, pathogenesis, methods of diagnosing gynecological diseases requiring an urgent medical aid: extrauterine pregnancy, incomplete abortion, ovarian apoplexy, torsion of ovary tumor pedicle, necrosis of myomatous node, pyosalpinx, pyo-ovarium.

To study the clinical picture and tactics of managing patients with urgent conditions.

To study differential diagnostics of the diseases requiring rendering an urgent gynecological aid.

To know typical gynecological operations on the uterus, uterus appendages.

**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 gynecology 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 gynecological patients.

**Lesson objectives**

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

**learn:**

* etiology, pathogenesis, methods of diagnosing gynecological diseases requiring an urgent medical aid: extrauterine pregnancy, incomplete abortion, ovarian apoplexy, torsion of ovary tumor pedicle, necrosis of myomatous node, pyosalpinx, pyo-ovarium;
* preoperative preparation and managing the postoperative period;
* typical gynecological operations on the uterus, uterus appendages.
* endosurgical methods of treatment in gynecology;

**be able to:**

* perform separate diagnostic curettage of the uterus;
* perform an abdominal puncture through the posterior vaginal vault;
* make differential diagnosis between ectopic pregnancy, ovarian apoplexy, torsion of ovary tumor pedicle;
* provide emergency care to the patient gynecological diseases requiring an urgent medical aid;
* to determine the indications for emergency surgical treatment of the patient gynecological diseases requiring an urgent medical aid;
* interpret the results of pelvic ultrasound examination;

**practice:**

* basic techniques for examining patients with gynecological diseases requiring an urgent medical aid.

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

1. Separate diagnostic curettage of the uterus.

2. Culdocentesis.

**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. The etiology, pathogenesis, classification, clinical picture of ectopic pregnancy.

2. Diagnosis and differential diagnosis of ectopic pregnancy.

3. Surgical treatment of ectopic pregnancy (radical, organ-preserving).

4. Ovarian apoplexy: etiology, pathogenesis, classification.

5. Ovarian apoplexy clinic.

6. Diagnosis and differential diagnosis of ovarian apoplexy.

7. Treatment of ovarian apoplexy.

8. Torsion of ovary tumor pedicle: etiology, pathogenesis, clinical picture, treatment.

9. Necrosis of the myomatous node: clinic, diagnosis, treatment.

10. Incomplete abortion: etiology, clinic, diagnosis, treatment.

11. Typical gynecological operations on the uterus, uterus appendages.

12. Endosurgical methods of treatment in gynecology.

**Practical part**

Solving clinical tasks – see the topics «Emergency conditions in gynecology», «Family planning. Contraception» 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)

**Questions for student independent work**

Lecture "Emergency conditions in gynecology" (USR – 2.0 hours), see the link <https://do2.vsmu.by/mod/resource/view.php?id=309670>

Test "Emergency conditions in gynecology" (USR – 2.0 hours), see the link <https://do2.vsmu.by/mod/quiz/view.php?id=309693>

**Deadline for completion of student independent work:**

During the semester.

**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