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:** Infertile marriage. Family planning.

**Duration of the class:** 5 hours

**Authors:**

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Vitebsk, 2024 year

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

The relevance of the problem of infertile marriage is explained by the high frequency of this pathology among married couples of reproductive age. The frequency of infertile marriages, according to foreign and domestic authors, is 8-17% and does not tend to decrease. Every year, 2-2.5 million new cases of male and female infertility are registered in the world. Infertile marriage, significantly affecting demographic indicators, acquires not only medical and biological, but also social significance.

**Goals and objectives of the class:**

**Learning goals**

To know organization of medical and psychosocial care to a married couple.

To study methods of diagnostics of female and male infertility.

To study methods of conservative and surgical treatment of female infertility.

To study methods of Assisted reproductive technologies.

To know methods of termination of pregnancy in the early and late terms – indications, contraindications, complications, influence on reproductive function, prevention, rehabilitation.

To study of methods of contraception and its features in different age periods of women's lives.

**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:**

* organization of medical and psychosocial care to a married couple;
* methods of diagnostics of female and male infertility;
* methods of conservative and surgical treatment of female infertility.
* assisted reproductive technologies;
* methods of termination of pregnancy in the early and late terms – indications, contraindications, complications, influence on reproductive function, prevention, rehabilitation;
* contraception methods and means;

**be able to:**

* identify risk factors for the development of infertility;
* conduct an objective gynecological examination of a patient with infertility;
* draw up a plan for examining a patient with infertility;
* evaluate the results of a clinical and laboratory examination of a patient with infertility;
* develop an individual treatment plan for patients with infertility;
* choose a individual method of contraception for the patient depending on the age, concomitant extragenital pathology.

**practice:**

* basic techniques for examining patients with infertility.

**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.

3. Insertion of an intrauterine device.

**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 purpose and objectives of reproductive medicine.

2. The organization of medical and psychosocial care to a married couple

3. The causes of the female and male infertility.

4. Methods of diagnostics of female and male infertility.

5. Methods of conservative treatment of female infertility.

6. Indications and methods of operative treatment of female infertility.

7. Methods of surgical endoscopy in treatment of infertility.

8. Assisted reproductive technologies. Artificial insemination (In vitro fertilisation [IVF], IntraCytoplasmic Sperm Injection [ICSI]).

9. Medical abortion: social and medical aspects of the issue, methods of termination of pregnancy in the early and late terms – indications, contraindications, complications, influence on reproductive function, prevention, rehabilitation.

10. Contraception: classification of contraception methods and means, traditional methods, intrauterine contraception, the principle of action and administration of hormonal contraceptives of different groups, sterilization.

11. Somatic aspects of hormonal therapy.

12. Peculiarities of adolescence contraception.

**Practical part**

Solving clinical tasks – see the topic "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 "Infertile marriage. Family planning" (USR – 2.0 hours), see the link <https://do2.vsmu.by/mod/resource/view.php?id=309671>

Test "Infertile marriage. Family planning" (USR – 2.0 hours), see the link <https://do2.vsmu.by/mod/quiz/view.php?id=309701>

**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