THEMATIC PLAN ON FAMILY PLANNING AND REPRODUCTIVE TECHNOLOGIES
FOR 6th YEAR STUDENTS
OF FACULTY FOR INTERNATIONAL STUDENTS

Thematic plan was approved at a meeting of the Department of Obstetrics with a course of study at the Faculty of Advanced Training and Retraining

Topic 1. Reproductive neuroendocrinology

1. Hypothalamic–pituitary–ovarian axis and regulation of the menstrual cycle. Control of GnRH secretion (neurotransmitters, feedback mechanisms).
2. Steroidogenesis.
3. Intrauterine development of the female reproductive system.
4. Factors leading to ovarian dysfunction, methods of egg preservation.
5. Ethics and deontology in obstetrics and gynecology.

Topic 2. Infertility: diagnosis and treatment

1. Factors of female and male infertility.
2. Methods for diagnosing reproductive dysfunction in a woman: anamnesis, objective examination (assessment of anthropometric data, assessment of sexual development, specialized gynecological examination), examination for urogenital infections and TORCH, ovulation assessment methods (ovulation test, ultrasonic dynamic folliculometry), methods for diagnosing endometrial receptivity, determination of hormone levels in blood serum and hormonal tests, genetic examination, ultrasound pelvic organs, sonohysterography, hysterosalpingography, diagnostic laparoscopy, hysteroresectoscopy, CT and MRI.
3. Basic principles of treatment of male and female infertility.
4. Methods of conservative treatment of female infertility.
5. Ovarian hyperstimulation syndrome.
6. Methods of surgical treatment of infertility.

Topic 3. Assisted reproductive technologies

1. Assisted reproductive technologies: history, social aspects.
2. Law of the Republic of Belarus on Assisted Reproductive Technologies.
3. Assisted reproductive technologies: insemination, IVF, ICSI, surrogacy.
4. Donation of germ cells, general concepts.
5. Course and management of pregnancy resulting from the use of assisted reproductive technologies.

Topic 4. Methods of termination of pregnancy. Modern methods of contraception

1. Social and medical indications for termination of pregnancy.
2. Pre-abortion counseling.

3. Methods of termination of pregnancy up to 12 weeks, complications, contraindications.

4. Methods of termination of pregnancy at 12 to 22 weeks, complications, contraindications.

5. Ways to terminate a missed abortion.

6. Medical, social and psychological consequences of abortion, rehabilitation.

7. Methods of contraception: classification. Mechanisms of contraceptive action.

8. Algorithm for choosing a method of contraception. Indications, contraindications, complications. Positive non-contraceptive effects of hormonal contraceptive methods.

Topic 5. Hormonal therapy in gynecology

1. The basic principles of hormonal therapy: ovulation stimulation, ovulation inhibition, hormone replacement therapy.

2. Stimulation of ovulation: groups of drugs, indications, contraindications.

3. Inhibition of ovulation: groups of drugs, indications, contraindications.

4. Hormone replacement therapy: groups of drugs, indications, contraindications.