

# THEMATIC PLAN ON OBSTETRICS FOR 6th YEAR STUDENTS

## Family planning and reproductive technologies

*Thematic plan was approved at a meeting of the Department of Obstetrics and Gynecology with PD and PC (protocol No. 10 dated 08.31.2022).*

### **Topic 1. Neuroendocrinology in relation to reproduction. Infertility. Diagnosis.**

1. Hypothalamic–pituitary–ovarian axis and control of the menstrual cycle.
2. Control of GnRH secretion (neurotransmitters, feedback loops).
3. Ovarian steroidogenesis.
4. Embryonic and fetal development.
5. Endometrial receptivity, method of diagnosis.
6. Reproductive imaging: pelvic ultrasonography.
7. Reproductive imaging: saline infusion sonography (SIS) or sonohysterography (SHG).
8. Reproductive imaging: hysterosalpingogram.
9. Ethics and deontology in Obstetrics and Gynaecology.

### **Topic 2. Infertility. Treatment.**

1. Causes of female and male infertility.
2. Organization of examination of infertile married couple.
3. Basic principles of treatment of male and female infertility.
4. Tests for ovulation.
5. Ovarian reserve testing.
6. Methods of conservative treatment of female infertility.
7. Ovarian stimulation.
8. Methods of surgical treatment of infertility.

### **Topic 3. Assisted reproductive technologies.**

1. Assisted reproductive technology: history, social aspects.
2. Assisted reproductive technology: Insemination.
3. Assisted reproductive technology: IVF.
4. Assisted reproductive technology: ICSI.
5. Assisted reproductive technology: Surrogacy.
6. Donation of gamets. Adoption.
7. Chemotherapy and ovarian damage. Risk factors of ovarian damage.

### **Topic 4. Methods of contraception. Methods of termination of pregnancy.**

1. Social and medical indications for termination of pregnancy.
2. Methods of termination of pregnancy up to 12 weeks, complications.
3. Methods of termination of pregnancy in the period from 12 to 22 weeks, complications.
4. Methods of termination of pregnancy in case of missed abortion.
5. Medical abortion: indications, contraindications, drugs for abortion, complications and their treatment.
6. Medical and social aspects of abortion.
7. Method of contraception. Classification. Indications and contraindications. Complications of contraception.

### **Topic 5. Hormone therapy in gynecology.**

1. The main principles of hormone therapy: stimulation of ovulation, hormone replacement therapy.
2. Hormone replacement therapy: groups of drugs, indications, contraindications.

3. Hormonal contraception: classification.
4. Hormonal contraception: the mechanism of contraceptive action.
5. Hormonal contraception: groups of drugs.
6. Positive non-contraceptive effects of COC. Side effects, contraindications.
7. Principles of family planning. Classification of modern methods of contraception.
8. IUD: classification, the mechanism of contraceptive action,
9. IUD: contraindications, complications.