

**THEMATIC PLAN FOR PRACTICAL LESSONS
IN THE ELECTIVE DISCIPLINE "OBSTETRICS AND GYNECOLOGY"
FOR 4TH-YEAR STUDENTS OF THE INTERNATIONAL STUDENTS FACULTY
FOR THE SPECIALTY 7-07-0911-01 "GENERAL MEDICINE"**

The thematic plan was approved at the meeting of the Department of Obstetrics and Gynecology with the Postgraduate Education Course.

Topic 1. Placenta and fetal membranes. Amniotic fluid disorders

1. Placenta: development and structure.
2. Fetal membranes, umbilical cord. Structure. Functions.
3. Amniotic fluid: exchange, composition.
4. Polyhydramnios. Etiology. Clinical signs. Diagnosis. Treatment. Clinical course of pregnancy and labor.
5. Oligohydramnios. Etiology. Clinical signs. Diagnosis. Treatment. Clinical course of pregnancy and labor.

Topic 2. Anatomical and physiological changes in the organs and systems of the pregnant woman

1. Physiological changes in the cardiovascular system during pregnancy.
2. Hematological changes during pregnancy.
3. Physiological changes in the respiratory system in pregnant women.
4. Physiological changes in the urinary system in pregnant women.
5. Changes in the genital organs and breasts during pregnancy.

Topic 3. Hormonal-metabolic and protective adaptations of the pregnant woman's body

1. Changes in the function of endocrine glands during pregnancy (pituitary gland, ovaries, thyroid gland, pancreas, adrenal glands).
2. Metabolic changes during pregnancy.
3. Changes in the immune system during pregnancy.
4. Changes in the hemostasis system during pregnancy.

Topic 4. Diagnosis of pregnancy

1. Specific symptoms and signs of pregnancy.
2. Diagnosis of pregnancy in the first trimester.
3. Diagnosis of pregnancy in second and last trimester.
4. Antenatal care during pregnancy.
5. Ethics and deontology in obstetrics.

Topic 5. Prenatal Diagnosis

1. Perinatal mortality rate, causes, risk factors, risk groups.
2. Perinatal risk factors and maternal risk factors.
3. Prenatal genetic counseling. Indications.
4. First and second trimester pregnancy screening (ultrasound, maternal serum screening factors).
5. Noninvasive method of pregnant testing.

6. Invasive methods of prenatal diagnosis: chorionic villus biopsy, amniocentesis, cordocentesis, fetoscopy. Indications, contraindications, maternal and fetal complications.

Topic 6. Assessment of fetal condition during pregnancy

1. Fetal cardiotocography (CTG): goals, timing, duration of recording.
2. Fetal ultrasonography (US): standard biometric parameters, assessment of anatomy, placenta, amniotic fluid.
3. Doppler ultrasound velocimetry: uterine arteries, umbilical artery, fetal middle cerebral artery. Values systolic-diastolic ratio (S/D ratio), pulsatility index, resistance index.
4. Fetal biophysical profile: components (non-stress test, fetal breathing movements, tone, gross body movements, fetal muscle tone, amniotic fluid volume) interpretation.
5. Determination of fetal blood gas composition (pH, pCO₂, pO₂, BE, BD): from the presenting part (fetal scalp sampling) or from the umbilical cord after delivery.
6. Determination of fetal blood lactate level during labor.

Topic 7. Pregnancy loss (Miscarriage)

1. Pregnancy loss: classification, causes, clinical stages.
2. Pregnancy loss: diagnosis, management, rehabilitation, prevention.
3. Septic abortion (infected abortion). Causes. Clinical presentation. Diagnosis. Management. Rehabilitation. Prevention.

Topic 8. Pregnancy with adverse outcomes

1. Missed miscarriage (early pregnancy failure): causes, clinical presentation, diagnosis, management, treatment, rehabilitation.
2. Antenatal fetal demise. Causes. Clinical presentation. Diagnosis. Management. Rehabilitation.
3. Intrapartal fetal demise. Causes. Clinical presentation. Diagnosis. Management. Rehabilitation.

Topic 9. Fetal and neonatal diseases

1. Intrauterine growth restriction (IUGR): pathogenesis, clinical manifestations, diagnostic methods, management.
2. Perinatal asphyxia. Causes. Clinical manifestations. Diagnosis. Management.
3. Shoulder dystocia. Causes. Clinical manifestations. Diagnosis. Management.
4. Respiratory distress in the newborn. Causes. Clinical manifestations. Diagnosis. Management. Prevention.
5. Perinatal infections. Causes. Clinical manifestations. Diagnosis. Management.

Topic 10. Mechanical methods for pre-induction and induction of labor

1. Assessment of biological readiness of the pregnant woman's body for labor (Bishop score, ultrasound criteria, hormonal markers).
2. Induction of labor. Indications and contraindications.

3. Mechanical methods for pre-induction and induction of labor: laminaria (seaweed tents), Foley catheter, balloon catheters. Indications. Prerequisites. Technique. Complications.

Topic 11. Pharmacological methods for pre-induction and induction of labor

1. Pharmacological methods for pre-induction and induction of labor: Prostaglandins, antiprogestogens.

2. Medical induction of labor: oxytocin, mifepristone, prostaglandins.

3. Surgical induction: Artificial rupture of membranes (amniotomy). Indications. Methods. Complications.

4. Management of induced labor.

Topic 12. Pharmacotherapeutics in Obstetrics

1. Uterotonics in Obstetrics. Oxytocin. Prostaglandins.

2. Antihypertensive therapy.

3. Tocolytic therapy.

4. Treatment and prevention of thromboembolic complications.

5. Analgesia and anesthesia in obstetrics. Analgesia during labor.

6. Antibiotic prophylaxis and therapy for cesarean section.