MODULE 4: Obstetrics and gynecology.

Theme 1: "Physiology of pregnancy, labor, post-natal stage. Perinatal protection of a fetus. Pharmacotherapy in Obstetrics. Principles of medical ethics".

I. Testing (25 tests).

II. Questions.

2. Physiological changes in a women’s body during the period of pregnancy (in endocrin system, cardiovascular system, vascular system, respiratory system, gastric system, kidneys, metabolism, skin, genitals and mammary glands.)
3. Diagnostics of early pregnancy.
4. Methods of late pregnancy investigation.
5. Biomechanism of labor at occipito fetal position.
9. Labor management and post-natal stage in medical documentation.

III. Practice.

1. External obstetric examination of pregnant women, Leopold methods, pelvis measurement, true conjugata measurement.
2. To determine terms of pregnancy, gestagen age of a fetus (according to case history and investigations).
3. Obstetric help during labor and post-natal stage.
4. To determine state of a fetus according to Apgar scale.
5. Medical documentation of a pregnant woman before obstetric department, in obstetric department and in post-natal department.

IV. Solving problems according situations.

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Lecturer’s sign ___________________
MODULE 4. Obstetrics and gynecology


II. Questioning:

1. Problem of gestoses.
2. Etiology and pathogenesis of gestoses.
3. Classification of gestoses.
5. Intensive therapy of severe preeclampsia/
6. Algorhythm of physician’s actions in case of eclampsia.
7. Prognosis and prevention of gestoses.

III. Practical skills:

1. Monitoring of state of pregnant and fetus.
2. Express-test for presence of albumin in urine
3. Measuring of diastolic arterial pressure.
4. Assessment of results of analysis, indicating gestosis severity degree.
5. Principles of therapy with magnesium.

IV. Accomplishment of situational tasks.

Evaluation of knowledge by educational element at practical class

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Lecturer’s sign____________
MODULE 4: Obstetrics and gynecology.

Theme 3: Multiple pregnancy. Spontaneous abortion. Prolonged pregnancy

I. Testing: 25 tests

II. Questioning

6. Indication and contraindication of artificial abortion. Technique of operation and complications.
7. Causes, classification, clinical picture and management of premature labor.
8. Diagnostics of premature labor confirmation. Methods of premature labor management.

III. Practice

1. To determine terms of pregnancy, age of a fetus and expected terms of labor (according to anamnesis and objective investigations).
2. To diagnose the state of uterine cervix at full-term pregnancy, prolonged pregnancy and premature labor.
3. To use the results of USI during labor.
4. To have ability to set a scheme of labor induction at prolonged pregnancy.
5. To solve one of situation problems.

IV. Solving problems.

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Lecturer’s sign __________
 MODULE 4: Obstetrics and gynecology.


I. Testing: 25 tests.
II. Questioning:

1. Hemorrhages in the 1-st half of pregnancy. Etiology, pathogenesis, clinical picture, algorhythm of aid rendering; spontaneous abortion; hydatid mole; extrauterine pregnancy
2. Hemorrhages in the 2-nd half of pregnancy. Etiology, pathogenesis, clinical picture, algorhythm of aid rendering; placental presentation; premature separation of normally located placenta; uterine rupture;
3. Hemorrhages during labor: 1 period: premature separation of normally located placenta; placental presentation; rupture of the uterus, rupture of uterine cervix. 2 period: premature separation of normally located placenta, rupture of the uterine. 3 period: pathology of placentation, delay, pinching of placenta; rupture of the soft tissues of maternal passages.
4. Early and late postpartum hemorrhages, algorhythm of doctor’s actions.
7. Modern approaches to infusion-transfusion therapy and intensive therapy and reanimation in case of blood loss in obstetrics.

III. Practical skills:

1. To make algorhythm of examination on admission of pregnant with hemorrhage to in-patient unit.
2. To take obstetric case-history, to evaluate results of laboratory examination (general and biochemical blood analysis, urine analysis, blood coagulogram, etc.)
3. To make plan of management of patient with placental presentation.
4. To make algorhythm of management of a patient with placental separation at the end of the 1-st or 2-nd period.
5. Methods of defining of blood loss volume.
6. Infusion-transfusion therapy in obstetric blood loss.
8. Algorhythm of aid rendering in case of delay of afterbirth in uterus.
9. Algorhythm of aid rendering in case of delay of parts of placenta or membranes.

IV. Solving of situational tasks.

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Lecturer’s sign______________
MODULE 4: Obstetrics and gynecology.


I Testing: 25 tests
II Questioning:

1. Causes of pathological labor.
2. Classification of contractile activity anomaly
4. Hyperactive and discoordinated labor activity.
7. Classification of maternal passage injury.

III Practice

1. To have ability to diagnose clinically contracted pelvis. Signs by Vasten, Zangermeister.
2. Signs of primary uterine inertia, secondary uterine inertia, hyperactive and discoordinated labor activity.
3. Methods of perineal rupture operation and uterine cervix operation.

IV Solving problems according to situations.

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Lecturer’s sign --------------------------
MODULE 4: Obstetrics and gynecology.

Theme 6: Pregnancy and labor in extragenital diseases

I. Testing: 25 tests
II. Questioning

1. Principles of dispensary supervision. Treatment and management of labor and postpartum period in women with extragenital pathology.
   1.1. In diseases of cardio-vascular system in pregnant women
   1.2. Diseases of blood and pregnancy.
   1.3. Kidneys diseases and pregnancy
   1.4. Diabetes mellitus and pregnancy
   1.5. Diseases of the liver and pregnancy
   1.6. Respiratory diseases and pregnancy
   1.7. Diseases of gastrointestinal tract and pregnancy
   1.8. Diseases of the thyroid gland and pregnancy
   1.9. Infectious diseases and pregnancy. Impact of mother’s infection on the newborn
2. Extent of obstetric aid during labor and in different extragenital diseases
3. Indications and methods of interrupting of pregnancy in extragenital diseases.

III. Practical skills:
1. To make up plan of dispensary supervision of pregnant women with extragenital pathology.
2. To make up a preliminary plan of labor management of women with extragenital pathology.
3. To make up an individual plan of management of postpartum period in women with extragenital pathology.

IV. Solving of situational tasks

Evaluation of knowledge by educational element at practical class

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Lecturer’s sign____________
MODULE 4: Obstetrics and gynecology.

Theme 7: “Placental dysfunction. Intrauterine growth retardation. Pathology of newborn period. Methods of intensive therapy and resuscitation of newborn”

I. Testing: 25 tests
II Questioning:

1. Dysfunction of placenta and fetal distress during pregnancy: etiology, pathogenesis, clinical picture, complex of symptoms, obstetric tactics.
3. Syndrome of intrauterine growth retardation (IUGR), clinical systematics, obstetric tactics. Role of ultrasonic investigation in diagnostics of IUGR.
5. Cardiotocographic criteria of state of the fetus during labor. Obstetric algorithm in threatening state of the fetus.
6. Asphyxia of the newborns: etiology, pathogenesis, clinical picture, diagnostics.
7. Algorithm of resuscitation methods in asphyxia of the newborn. Post-resuscitation aid given to newborns, who underwent asphyxia and trauma during birth.

III. Practical skills:

1. To assess results of cardiotocography (CTC) during pregnancy and in labor
2. To assess results of biophysical profile of fetus (BPF) and doplerometry of fetal-placental blood flow.
3. To make up diagnostic and treatment algorithm in case of fetal distress during pregnancy and in labor.
4. To evaluate state of the infants by Apgar scale.
5. To make up algorithm of resuscitation measures depending on severity of asphyxia of the newborn
6. To be able to perform external cardiac massage and intensive ventilation of lungs of the newborn by mask method.

IV. Solving of situational tasks

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Lecturer’s sign____________
MODULE 4: Obstetrics and gynecology.

Theme 8: Clinical and physiological changes of female genitals in different age periods. Neuroendocrinal control of genital system functioning

I. Testing: 25 tests
II. Questioning

1. Period of newborn, childhood and pre-pubertal period (first stage of genital forming). Pubertal period (Second and third stages of genital forming).
2. Period of sexual maturity. Control of reproductive system functioning
3. Neuroendocrinal control of reproductive system.
4. Climacteric period (peri-menopause and post-menopause)

III. Practice

1. Gynecological examination (speculum, bimanual, rectal, recto-vaginal).
2. Gynecological examination of a small girl and a girl-teenager.
3. To take analyses from vagina, urethra and cervical canal.
4. To analyse results of colposcope investigation
5. To analyse results of cytologic, gystologic, bacteriological investigation.
6. To analyse results of USI.
7. To analyse results of hormonal blood investigation

IV. Solving problems according to situations

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Lecturer’s sign -------------------------
MODULE 4: Obstetrics and gynecology.

Theme 9: Female urogenital diseases. Diagnostics, treatment and prophylaxis.

I. Testing : 25 tests
II. Questioning

1. Problems of urogenital infection in gynecology.
6. Prophylaxis of urogenital infection.

III. Practice:

1. Gynecological investigation (speculum, bimanual, rectal, rectovaginal).
2. To make a plan of investigation of a patient with urogenital infection.
3. Paracentesis of abdominal cavity through posterior vault
4. To take vaginal analyses to determine purity.

IV. Solving problems according to situation

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Lecturer’s sign --------------------------
MODULE 4: Obstetrics and gynecology.

Theme 10. “Disorders of menstrual function in different periods of age, neuro-endocrine syndromes in gynecology”.

I. Testing – 25 tests.

II. Questioning.

1. Modern notions on the principles of regulation of menstrual function and patho-physiologic aspects of its disorders. Etiologic factors of disorder of menstrual function.
2. Classification of disorders of menstrual function depending on age and morphofunctional changes in the ovaries (ovulatory and an-ovulatory menstrual cycles, clinical manifestations, diagnostics).
5. Neuroendocrine disorders of reproductive system – to define notions and general notions as for endocrine syndromes. Role of neuroendocrine disorders in reproductive health of woman.

III. Practical skills

1. Gynecologic examination (inspection of external genital organs, inspection by means of gynecological speculum, bimanual examination).
2. To make up plan of examination of a patient as for disorders of menstrual function.
3. To be able to interpret tests of functional diagnostics.
4. To be able to carry out smear sampling as for colpocytologic examination.
5. To evaluate choice of method of contraception in woman of different age periods.

IV. Solving of situational tasks

Evaluation of knowledge by educational element at practical class

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Lecturer’s sign_________________
MODULE 4: Obstetrics and gynecology.


I. Testing : 25 tests
II. Questioning

2. Types of external and internal endometriosis. Classification. Methods of prophylaxis.
3. Modern methods of diagnostics, treatment and rehabilitation of patients with endometriosis.
5. Methods of treatment of patients with wrong genital position.
6. Factors favorable for normal genital position remaining.
7. Prophylaxis of wrong genital position.
8. Modern points of view on injuries and anomaly of female genital developing.

III. Practice:

1. Gynecological examination (speculum, bimanual, rectal, rectovaginal).
2. Taking analysis from vagina, urethra and cervical canal.
3. To analyse results of colpocytologic investigation
4. To analyse diagnostic results of ovarian function
5. To analyse results of X-ray investigation of female genitals.
6. To make a plan of investigation of a patient with gynecological pathology.
7. Uterine probation (using phantom)
8. Pre-operation preparatory work with a patient and post-operation management.

IV. Solving problems according to situation

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Lecturer’s sign ---------------------------
MODULE 4: Obstetrics and gynecology.


I. Testing – 25 tests.
II. Questioning.

1. The most frequent pathologies in girls and adolescents, peculiarities of the course, treatment, prophylaxis.
2. Inflammatory diseases in children and adolescent gynecology.
3. Foreign bodies, vaginoscopy.
4. Synechias, treatment, prophylaxis.
8. Examination of married couple in infertile marriage.

III. Practical skills:
1. To take special gynecologic anamnesis in girl.
2. To carry out gynecologic examination of a girl and girl-adolescent.
3. To evaluate results of bacterioscopic and bacteriologic investigations and to administer treatment.
4. To make up plan of examination of a girl-adolescent with disorders of menstrual function.
5. To make up plan of examination of an infertile married couple.
6. To evaluate results of laboratory investigation (spermogram, level of sexual hormones in the blood) in case of infertile marriage.
7. To evaluate results of ultrasonic investigation, metrosalpingography.

IV. Solving of situational tasks

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Lecturer’s sign ------------------------------
MODULE 4: Obstetrics and gynecology.


I. Testing – 25 tests.
II. Questioning.

1. Benign neoplasms of external female genital reproductive organs.
3. Definition of cyst and cystoma.
5. Indications, contraindications, conditions and technical peculiarities of surgical interventions on the uterus (conservative myomectomy, uterine defundation, supravaginal amputation of the uterus, extirpation of the uterus), on uterine appendages.
7. Peculiarities of preparation and post-operative management of gynecologic patients in case of urgent and scheduled surgical interventions.

III. Practical skills

1. Gynecologic examination (by speculum, bimanual, rectal, recto-vaginal ones).
2. To take special gynecologic case-history, to assess results of laboratory investigation (general and biochemical blood testing, urine analysis, coagulogram, etc.).
3. Taking of vaginal, urethral and cervical sampling.
4. To assess results of colposcopic investigation.
5. To assess results of cytologic, histologic, bacteriologic investigations.
6. To assess results of ultrasonic examination.
7. To make up plan of patient’s examination in case of benign diseases of reproductive organs, mammary glands diseases.
8. To plan schemes of treatment and prevention of benign diseases of reproductive organs.
9. Preoperative preparation of gynecologic patients and postoperative management of the ones.

IV. Solving of situational tasks

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Lecturer’s sign____________
MODULE 4: Obstetrics and gynecology.

Theme 14: Precancerous and background female genital diseases. Malignant tumors and trophoblastic diseases. Diagnostics, treatment and prophylaxis.

I. Testing: 25 tests
II. Questioning


III. Practice:

1. To make special gynecological anamnesis, to estimate results of laboratory investigation.
2. To take analyses from vagina, urethra, cervical canal.
3. To estimate results of colposcopic investigation.
4. To estimate results of cytological, histological, bacteriological investigation.
5. To estimate results of USI.
6. To make a plan of treatment and prophylaxis of different gynecological pathology.
7. Uterine probing (by phantom).

IV. Solving problems according to situation

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Lecturer’s sign -----------------------------
MODULE 4: Obstetrics and gynecology.


I. Testing : 25 tests
II. Questioning

8. 1. Problem of gynecological “acute abdomen”. Urgent surgical aid in “acute abdomen”.
9. 2. Basic principles and methods of surgical interventions in gynecological “acute abdomen”.
11. 4. Doctor actions algorhythm in ectopic pregnancy.
13. 6. Doctor actions algorhythm in ovarian cyst pedicle twisting.
15. 8. Clinics, diagnostics and doctor algorhythm in myomatic node necrosis.
17. 10. Differential diagnosis of “acute abdomen” in gynecological practice.

III. Practice:
18. 1. Gynecological examination (speculum, bimanual, rectal, rectovaginal).
19. 2. Patient examination plan creation in different kinds of urgent gynecological diseases.
20. 3. Uterine probing (in mannequin).
21. 4. Preoperative preparing and postoperative management of gynecological patients.
22. 5. Abdominal puncture through the posterior vaginal vault (in mannequin).
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IV. Solving problems according to situation

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Lecturer’s sign --------------------------
MODULE 4: Obstetrics and gynecology.


I. Testing – 25 tests.

II. Questioning.

1. Examination of pre-scheduled and urgent gynecologic surgery.
2. Procedure of pre-operation preparation of gynecologic patients.
5. Indications to gynecologic surgical interventions on the uterus and its appendages.
6. Surgical interventions in case of uterine prolapsed and descent of reproductive organs (reconstruction of the anterior and posterior segment of the vagina, apical fixation).
7. Methods and stages of the abdominal cavity dissection.
8. Names of instruments and their application in laparotomy.
9. Basic stages of surgical interventions on the uterine appendages (tubectomy, salpingostomy, resection of the ovary, adnexectomy).
10. Basic stages of surgical interventions on the uterus (amputation of the uterine cervix by Shturmdorff’s method, cuneiform amputation by Shreder’s method, myomectomy, defundation of the uterus, supravaginal amputation of the uterus, hysterectomy of the uterus).
11. Complications of gynecologic surgical interventions, occurring the most often, their prevention in post-operative period.
13. Surgical interventions in case of prolapsed and descent of reproductive organs (reconstruction of the anterior and posterior segments of the vagina, apical fixation).

III. Practical skills:

1. Scrubbing.
2. To treat anterior abdominal cavity before surgical intervention.
3. To prepare a set of instruments for laparotomy.
4. To justify indications to surgical interventions on the small pelvis organs.

IV. Solving of situational tasks

Evaluation of knowledge by educational element at practical class

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