STATE EXAMINATION CURRICULUM

in discipline “Obstetrics and Gynecology”
for the subinternship in General Medical Practice
in the specialty 1-79 01 01 General Medicine (in English)

Minsk, BSMU 2017
State examination curriculum in discipline “Obstetrics and Gynecology” in specialty 1-79 01 01 General Medicine for the subinternship in General Medical Practice is approved by the Surgical Methodological Committee of educational institution «Belarusian State Medical University» (protocol № ___ dated __________ 2017).

Chairman
A.V. Prokhorov

State examination curriculum in discipline “Obstetrics and Gynecology” in specialty 1-79 01 01 General Medicine for the subinternship in General Medical Practice is approved at the meeting of the Council of General Medicine Department of Educational Institution «Belarusian State Medical University» on ________________, 2017).

Chairman
A.I. Volotovski
Degree examination curriculum
in discipline “Obstetrics and Gynecology”
for the subinternship in General Medical Practice
in the specialty 1-79 01 01 General Medicine
(for the Medical Faculty for International Students)

1. Anatomical and physiological peculiarities of the female reproductive system

Peculiarities of the development and structure of female genitals at different age periods. External and internal genitals. Mammary glands. Physiology of the female reproductive system.

2. Perinatology


3. Physiological Obstetrics

Planning the pregnancy. Fertilization, early embryogenesis, implantation of the blastocyst. development and functions of the placenta, diagnostic methods. The amniotic fluid: functions, composition, methods of investigation and their clinical and diagnostic value. The structure and functions of the umbilical cord. A fetus as an object of the labor. Physiological adaptive features of the female organism during pregnancy. Diagnosis of the early and late terms of pregnancy. Pregnant women examination: questioning and objective examination, determining the term of pregnancy and the date of the labor
Female pelvis in terms of obstetrics. Pelvic floor, its structure and functions.
Physiological pregnancy: its course and management. Fundamentals of the balanced diet of pregnant women, regimen and personal hygiene of pregnant women. Principles of preparation of pregnant women to the labor. The evaluation of readiness of the pregnant woman’s organism to the labor.
Physiological changes in the body of a puerpera. Management of the postpartum period.
Anatomical and physiological features of a newborn. Breastfeeding.

4. Pathological Obstetrics

Extragenital and gynecological pathology accompanying pregnancy

The circulatory system diseases. Blood diseases
Causes of hypertension in pregnant women, differential diagnosis.
Pregnancy in women with arterial hypertension, complications of pregnancy and labor for the mother and fetus. Management of pregnancy and labor in women with arterial hypertension, treatment.
The course and management of pregnancy and labor in women with acquired and congenital heart defects; complications of pregnancy and labor for the mother and fetus.
Varicose veins in pregnant women: causes, prevention of venous thrombosis.
Contraindications to pregnancy in circulatory system diseases.


Hereditary and congenital thrombophilia, complications of pregnancy, labor postpartum and neonatal periods. Idiopathic thrombocytopenic purpura, clinical features, diagnosis, complications of pregnancy and labor and their prevention

Endocrine pathology

Thyroid gland diseases: hypothyroidism and thyrotoxicosis, thyroid cancer. The course and management of pregnancy, labor, postpartum period. Complications for the fetus and newborn in mother’s thyroid dysfunction. Iodine deficiency diseases, prevention of iodine deficiency in pregnant women, the clinical significance

Diseases of the urinary system
Liver diseases

Acute surgical pathology
Appendicitis, pancreatitis, cholecystitis, intestinal obstruction: peculiarities of the clinical course and diagnostics at different terms of pregnancy. Methods of treatment. The management of pregnancy and labor, postpartum period.

Gynecological pathology in pregnancy


Infectious diseases
Sexually transmitted diseases (Chlamydia infection, syphilis, gonorrhea) during pregnancy, complications for the mother, fetus and newborn; diagnosis, treatment, prevention. Cytomegalovirus and herpes infections, influenza, rubella, measles, listeriosis, tuberculosis, toxoplasmosis: the course and management of pregnancy, labor and the postpartum period; complications for the mother, fetus and newborn.

HIV infection during pregnancy, perinatal prevention of transmitting HIV from mother to fetus and newborn.

Pregnancy and diseases of the respiratory system: pneumonia, chronic obstructive bronchitis, bronchial asthma. Treatment and prevention of complications of pregnancy, labor, the postpartum and neonatal periods.

Pregnancy and diseases of the organ of vision: management of labor, prevention of complications.

Pregnancy and labor in breech birth
Etiology, classification, diagnosis and prevention of breech presentation. The course and management of pregnancy and labor. Surgical intervention in the breech presentation.

Wrong fetus positions and presentations
The pregnancy and labor at shoulder presentation and oblique lie of the fetus: etiology, diagnosis, management of pregnancy.

Extension cephalic presentation: classification, diagnosis, management of labor. Deviations from the normal biological mechanism of the labor in vertex presentation.

Multiple pregnancy
Cases and diagnosis. The course and management of pregnancy and labor.
Incomplete and prolonged pregnancy


Signs of an immature newborn, prevention and treatment of respiratory disorders.

Prolonged pregnancy: causes, diagnosis, management of pregnancy, labor complications for the mother and fetus.

Differential diagnosis of post-term pregnancy, and prolonged pregnancy.

Induced labor: indications, methods. Methods of inducing cervical maturation.

Hemorrhages in Obstetrics


Amniotic fluid embolism: causes, clinical picture, diagnosis, treatment, prevention.

Gestosis


Edema of pregnant, preeclampsia, eclampsia: pathogenesis, clinical picture, management of labor, indications for preterm delivery, complications for the mother and fetus.

Rare forms of gestosis: HELLP-syndrome, acute fatty hepatosis of pregnancy.

Anomalies of labor activity

Classification of the anomalies of labor activity, causes, clinical picture, diagnosis, treatment, complications for the mother and fetus, prevention.

Management of labor, indications for cesarean section.

Contracted (narrow) pelvis

Diagnosis of clinically contracted pelvis, labor management, complications for the mother and fetus.

**Birth injury**

Causes, classification, diagnosis and prevention of birth injuries in the mother and fetus.

The rupture of the uterus, vaginal birth injury, postpartum fistulas, pubis diastasis and rupture, postpartum inversion of the uterus, their clinical picture, treatment and prevention.

Fetal and neonatal birth injury: cephalohematoma, intracranial hemorrhages, traumas of the skeleton, peripheral and central nervous system, organs of the abdominal cavity.

**Operative methods of delivery**


Management of pregnancy in women with the uterine scar, methods of delivery, complications.

Obstetrical forceps: models and structure; indications, contra-indications, conditions for applying obstetrical forceps; pain control methods; rules and stages of the operation of applying obstetrical forceps; difficulties and complications while carrying out the operation; techniques of applying of outlet and “mid or law” forceps; complications for the mother and fetus.

Vacuum extraction of the fetus: indications, contra-indications, conditions for carrying out the operation, the operation technique, complications for the mother and fetus.

Embryotomy operations: indications, contra-indications, conditions for carrying out the operation, kinds of operations, complications for the mother.

**The postpartum period: physiology and pathology**

Physiological changes in the puerpera’s organism. The course and management of the postpartum period. Postpartum purulent septic diseases: lactational (puerperal) mastitis, postpartum ulceration, endometritis, thrombophlebitis, parametritis, pelviperitonitis, peritonitis, sepsis. Etiology, pathogenesis, classification, clinical picture, diagnosis, treatment, prevention.

**5. Gynecology**

**Methods of diagnosing the reproductive system diseases**

Clinical methods of examination: case history taking, general and objective examination, the examination and palpation of mammary glands, examination and exploration of external and internal genitals.

Methods of the exploration of ovary functions: functional diagnostics tests, determining the hormone concentration in blood plasma and in the urine, hormonal tests.

Morphological methods of exploration.

Endoscopic methods of examination: vaginoscopy, colposcopy, hysteroscopy, culdoscopy, diagnostic laparoscopy.

**Malposition of female genitals**
Causes, classification, clinical picture, diagnosis, methods of treatment of the female genitals malposition.


**Menstrual function and its disorders**
Neurohumoral regulation of menstrual cycle.
Causes, clinical picture, diagnosis, treatment and prevention of menstrual disorders: amenorrhea, dysmenorrhea, dysfunctional uterine bleeding in juvenile, reproductive and climacteric periods.

**Neuroendocrine syndromes in gynecology**
Etiology, pathogenesis, classification, diagnosis and treatment of premenstrual, post-castration, climacteric, adrenogenital syndromes; hirsutism and virilization; the syndrome and disease of polycystic ovaries.

**Inflammatory diseases of the female genitals**
Etiology, classification, clinical picture, diagnosis, treatment and prevention of vulvovaginitis, Bartholinitis, cervicitis, metroendometritis, salpingo-oophoritis (adnexitis), parametritis, pelviipuritus.

Clinical picture, diagnosis, treatment of sexually transmitted diseases: gonorrhea, trichomoniasis, Chlamydia infection, human papillomavirus (HPV) infection, bacterial vaginoses, candidiasis, genital herpes.

**Background, pre-cancer and benign diseases of the female reproductive system organs**

Tumors and tumor-like masses of ovaries: causes, classification, clinical manifestations, diagnosis, treatment, prevention.

Endometriosis: modern theories of the pathogenesis, classification, clinical manifestations, diagnosis, treatment, prevention.

Dyshormonal diseases of the mammary glands.

**Gynecological diseases requiring an urgent medical aid**
Extravular pregnancy, spontaneous abortion, ovarian apoplexy, torsion of ovary tumor peduncle, necrosis of a myomatous node, acute inflammatory diseases, genital injuries, peritonitis. Etiology, pathogenesis, clinical manifestations, diagnosis and differential diagnosis, treatment, prevention.

**Operative Gynecology**
Preoperative preparation and managing the postoperative period.

Reconstructive plastic operations on the uterus, uterine appendages aimed at the preservation of women’s reproductive function. Endosurgical methods of treatment in gynecology.

Therapeutic abortion: social and medical aspects of the issue, methods of
abortion in early and late terms, indications, contra-indications, complications, influence on the reproductive function, prevention.

**Infantile and Adolescent Gynecology**


Genital development anomalies: etiology and pathogenesis, classification, clinical manifestations, diagnosis, treatment.

Traumas of genitals.

Inflammatory diseases in childhood and adolescence: etiology and pathogenesis, classification, clinical manifestations, diagnosis, treatment.

Benign tumors of genitals in childhood and adolescence.

**Infertile marriage and family planning issues**


Contraception: methods, contraindications, complications, side effects.

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