**THEMATIC PLAN AND CONTENT OF PRACTICAL LESSONS**

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| № | THEME | CONTENT | TEACHING METHODS |
| 1 | 2 | 3 | 4 |
|  | **Block 1.** | **Obstetrics. Outpatient service. Antenatal care.** |  |
| 1 | Organization of obstetric and gynecological services in the Republic of Kazakhstan. | Principles of regionalization of perinatal care. Regulatory documents used in the outpatient service. The criteria for live births and stillbirths recommended by WHO for the Republic of Kazakhstan. Maternal and perinatal mortality. The main causes and ways to reduce maternal and perinatal mortality. | Mental Map, CBL, PBL, TBL |
| 2 | Clinical anatomy of the female genital organs. Physiology of the fetus. | Clinical anatomy of the female genital organs. External and internal genital organs. Bony pelvis from the obstetrical standpoint. The concept of a false and a true pelvis. The planes and dimensions of the true pelvis. Fertilization. Early embryogenesis. Placenta. Development and function of the placenta. Amniotic fluid. Physiology of the fetus. Periods of fetal development. Signs of fetal maturity. Fetal skull. Diameters of skull of a mature fetus. | Mental Map, CBL, PBL, TBL |
| 3 | Physiological changes during pregnancy. Examination of a pregnant woman. | Physiological changes in the body of a woman during pregnancy. Examination of a pregnant woman. History taking. Objective examination. Diagnosis of early and late pregnancy. Determination of gestational age. External and internal obstetric examination. Laboratory diagnostic methods during pregnancy. | Mental Map, CBL, PBL, TBL |
| 4 | Antenatal care. | Antenatal care. Antenatal assessment of fetal well-being. Gravidogram. Ultrasound screening of the fetus. Indications for CTG, dopplerometry during pregnancy. The biophysical profile of the fetus (BPP), modified BPP.  Insufficient fetal growth. Classification. Diagnostics. Management.  Prenatal diagnosis of fetal malformations. Non-invasive and invasive research methods. | Mental Map, CBL, PBL, TBL |
| 5 | Physiological pregnancy management. | Physiological pregnancy management. The basics of a healthy diet for pregnant women. Mode and personal hygiene of pregnant women. Maternity leave. Principles of preparing pregnant women for childbirth. Counseling and training in the antenatal period. | Mental Map, CBL, PBL, TBL |
| 6 | Pregnancy-associated nausea and vomiting | Pregnancy-associated nausea and vomiting. Classification. Diagnostics. Differential diagnosis. Tactics of conducting at the female outpatient clinic. | Mental Map, CBL, PBL, TBL |
| 7 | Pregnancy-induced edema and proteinuria without hypertension | Pregnancy-induced edema and proteinuria without hypertension. Diagnostics. Differential diagnosis. Tactics of conducting at the female outpatient clinic. | Mental Map, CBL, PBL, TBL |
| 8 | Hypertensive disorders during pregnancy. | Hypertensive disorders during pregnancy. Clinical classification. Diagnostic criteria. Preeclampsia Diagnostics. Management. Eclampsia. Diagnostics. Emergency care for severe preeclampsia and eclampsia.. | Mental Map, CBL, PBL, TBL |
| 9 | Early pregnancy hemorrhage. | Early pregnancy hemorrhage. Spontaneous abortion. Etiology, classification, clinic, diagnosis, management. Habitual miscarriage. Artificial abortion. Methods of abortion. | Mental Map, CBL, PBL, TBL |
| 10 | Late pregnancy hemorrhage | Late pregnancy hemorrhage. Placenta previa. Etiology, classification, clinic, diagnosis, management.  Abruptio Placentae. Etiology, classification, clinic, diagnosis, management. | Mental Map, CBL, PBL, TBL |
| 11 | Urinary tract infections during pregnancy. | Urinary tract infections during pregnancy. Classification. Diagnostic criteria. Differential diagnosis. Outpatient management tactics. | Mental Map, CBL, PBL, TBL |
| 12 | Anemia of pregnant women. | Anemia of pregnant women. Classification. Diagnostics. Outpatient management tactics. Indications for hospitalization | Mental Map, CBL, PBL, TBL |
|  | **БЛОК 2** | **Obstetrics. Physiology of Normal Labor and Puerperium** |  |
| 13 | Labor. Causes of Onset of Labor. Stages of labor. Concept of the program "Safe motherhood" | Labor. Causes of Onset of Labor. Methods for assessing readiness for childbirth. The degree of maturity of the cervix. Bishop scale. False contractions. Diagnostic criteria. Stages of labor. Duration of childbirth. Concept of the program "Safe motherhood" Понятие о программе «Безопасное материнство». | Mental Map, CBL, PBL, TBL |
| 14 | Management of the first stage of Labor . Analgesia and sedation during labor. | The first stage of labor. Diagnostic criteria. Methods for assessing uterine contractility. The location of the fetal head. Partogram. Management of the first stage of labor according to the protocols in RK. Analgesia and sedation during labor. | Mental Map, CBL, PBL, TBL |
| 15 | Management of the second stage of labor. Initial examination of the newborn. | The second stage of labor. Diagnostic criteria. Mechanism of labor in the vertex occiput anterior presentation. Management of the second stage of labor according to the protocols in RK. Initial examination of the newborn. Assessment of the newborn. Apgar scale. | Mental Map, CBL, PBL, TBL |
| 16 | The third stage of labor. Diagnostic criteria. Active Management of Third Stage of Labor. The early puerperium period. Management of the early puerperium period. | The third stage of labor. Diagnostic criteria. Expectant and active management of the third period of labor. The early puerperium period. Management of the early puerperium period. | Mental Map, CBL, PBL, TBL |
| 17 | Normal puerperium. | The duration of the postpartum period. Physiological changes in the postpartum period. Management of the postpartum period. Nutrition and hygiene of puerperas. | Mental Map, CBL, PBL, TBL |
| 18 | Breast-feeding. Breastfeeding counseling. | Breast-feeding. The benefits of breastfeeding. 10 principles of successful breastfeeding. Breastfeeding counseling | Mental Map, CBL, PBL, TBL |
| 19 | Physiology of the neonatal period. Healthy newborn Care | Physiology of the neonatal period. Transient conditions of newborns. Healthy newborn care. | Mental Map, CBL, PBL, TBL |
| 20 | Family planning. Modern methods of contraception. Postpartum contraception. | Family planning. Modern methods of contraception. Postpartum contraception. Counseling puerperas on the choice of contraceptive method. | Mental Map, CBL, PBL, TBL |
|  | **БЛОК 3** | **GYNECOLOGY** |  |
| 21 | The reproductive system of women. | The reproductive system of women. Features of the reproductive system at different age periods. Regulation of the menstrual cycle. | Mental Map, CBL, PBL, TBL |
| 22 | Methods of examination of gynecological patients. | Methods of examination of gynecological patients. Methods of functional diagnostics. Features of a gynecological examination of adolescent girls. | Mental Map, CBL, PBL, TBL |
| 23 | Inflammatory diseases of the female genital organs | Inflammatory diseases of the female genital organs. Etiology. Clinic, diagnosis and treatment of inflammatory diseases of the external genital organs and vagina. Clinic, diagnosis and treatment of inflammatory diseases of the pelvic organs. Prevention of inflammatory diseases of the female genital organs. | Mental Map, CBL, PBL, TBL |
| 24 | Abnormal uterine bleeding. | Abnormal uterine bleeding. Etiology. Pathogenesis. Classification.  Clinic. Diagnostics. Differential diagnosis. Treatment. | Mental Map, CBL, PBL, TBL |
| 25 | Amenorrhea. | Amenorrhea. Classification, the main clinical forms of central and peripheral amenorrhea. The importance of genetic disorders in the origin of primary amenorrhea. Etiology and pathogenesis of central amenorrhea. Examination of patients with central amenorrhea. Modern principles of treatment. Etiology and pathogenesis of peripheral amenorrhea. Examination of patients with peripheral amenorrhea. Modern principles of treatment. | Mental Map, CBL, PBL, TBL |
| 26 | Fibromyomas of the Uterus | Fibromyomas of the Uterus. Etiology. Pathogenesis. Classification.  Clinic. Diagnostics. Differential diagnosis. Management. Indications for surgical treatment. | Mental Map, CBL, PBL, TBL |
| 27 | Genital endometriosis. | Genital endometriosis. Etiology. Pathogenesis. Classification.  Clinic. Diagnostics. Differential diagnosis. Management. Indications for surgical treatment. | Mental Map, CBL, PBL, TBL |
| 28 | "Acute abdomen" in gynecology . | Ectopic pregnancy. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Differential diagnosis. Treatment.  Apoplexy of the ovary. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Differential diagnosis. Treatment.  Torsion of the ovarian cyst. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Differential diagnosis. Treatment. | Mental Map, CBL, PBL, TBL |
| 29 | Neuroendocrine syndromes in gynecology. | Premenstrual syndrome. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Differential diagnosis. Treatment.  Menopausal syndrome. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Differential diagnosis. Treatment.  Surgical menopause syndrome. Etiology. Pathogenesis. Classification. Clinic. Diagnostics. Differential diagnosis. Treatment. | Mental Map, CBL, PBL, TBL |
| 30 | Infertility. Assisted Reproductive Technologies | Infertility. Modern aspects of the diagnosis of infertility and examination of a married couple. Causes of female infertility. Assisted reproductive technologies: in vitro fertilization (IVF), artificial insemination with sperm (IISM, IISD), intracytoplasmic sperm injection (ICSI). | Mental Map, CBL, PBL, TBL |