

SYLLABUS

1. General information on the course

Full course name	Obstetrics and Gynecology
Full official name of a higher education institution	Sumy State University
Full name of a structural unit	Academic and Research Medical Institute. Кафедра акушерства, гінекології та планування сім'ї
Author(s)	Kopytsia Tetiana Volodymyrivna
Cycle/higher education level	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
Duration	one semester
Workload	3 ECTS, 90 hours. For full-time course 54 hours are working hours with the lecturer (54 hours of seminars), 36 hours of the individual study.
Language(s)	English

2. Place in the study programme

Relation to curriculum	Compulsory course available for study programme "Medicine"
Prerequisites	Krok-1, Necessary knowledge of: Latin language and medical terminology, - medical biology, - medical informatics, - human anatomy, - physiology, - histology, cytology and embryology, - biological and bioorganic chemistry, - microbiology, virology and immunology, - pathomorphology, - pathophysiology, - pharmacology, - hygiene and ecology, - nursing practice, - radiology.
Additional requirements	There are no specific requirements
Restrictions	There are no specific restrictions

3. Aims of the course

The purpose of teaching the educational discipline "obstetrics and gynecology" is: acquisition of knowledge and professional skills in conservative and operative gynecology based on knowledge of age-related anatomical and physiological features of the female body in different age periods, ability to analyze surgical risks of gynecological patients, use basic and additional research methods, demonstrate skills and abilities according to the educational and professional program (OPP).

4. Contents

Module 2. Diseases of the organs of the female reproductive system. Family planning.

Topic 1 Anatomy and physiology of female genital organs. Methods of examination of gynecological patients. General symptomatology of gynecological diseases.

Clinical anatomy of female genital organs. External genitalia. Internal genitalia. Blood circulation, lymphatic circulation and innervation of female genital organs. Age-related features of anatomy and physiology of female genital organs. Neuroendocrine regulation of reproductive system functions. The main methods of examination in gynecology: examination of the external genitalia, examination using mirrors, bimanual examination. Additional examination methods in gynecology. Methods of functional diagnosis of ovarian condition. Radiological diagnostic methods in gynecology: MRI, CT, MSG. Ultrasound research methods in gynecology. Instrumental examination methods: probing the uterine cavity, scraping the uterine cavity, biopsy of the endometrium, cervix, puncture of the abdominal cavity through the posterior vault. Endoscopic research methods: colposcopy, hysteroscopy, laparoscopy. Laboratory diagnostics: oncocytology, bacterioscopy, bacteriology, ELISA, PCR, pathological examination. General symptomatology of gynecological diseases (pain, discharge, disorders of the menstrual cycle, bleeding, sexual disorders, infertility, disorders from adjacent organs).

Topic 2 Neuroendocrine regulation. Violations of the functions of the reproductive system.

Classification of disorders of the function of the reproductive system. Amenorrhea: classification, diagnosis. Abnormal uterine bleeding. Clinic, modern methods of diagnosis and principles of treatment from the standpoint of evidence-based medicine. The problem of menstrual dysfunction in different age periods. Modern methods of diagnosis and treatment.

Topic 3 Neuroendocrine syndromes in a gynecologist

Issues of gynecological endocrinology. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, Sheehan syndrome, hyperandrogenism, hyperprolactinemia. Clinic, modern methods of diagnosis and principles of treatment.

Topic 4 Benign tumors of the female genital organs. Genital endometriosis. Gynecological aspects of diseases of the mammary gland.

Benign tumors and tumor-like diseases of the female genital organs. The concept of ovarian cysts and tumors. Bartholin gland cyst. Benign tumors of the ovaries: epithelial, stromal tumors of the genital tract, lipid-cellular tumors, germinogenic tumors. Tumor-like formations of the ovaries. Benign uterine tumors. Clinic, modern methods of diagnosis, treatment and prevention from the standpoint of evidence-based medicine. The problem of endometriosis. Modern etiopathogenetic aspects of endometriosis. Classification. Clinic. Methods of diagnosis, treatment and prevention of endometriosis. Medical rehabilitation of women with endometriosis. Basic gynecological aspects of breast diseases. Modern diagnostic methods, management tactics, treatment from the standpoint of evidence-based medicine and prevention.

Topic 5 Background and precancerous diseases of female genital organs.

Background and precancerous diseases of external genital organs. Background and precancerous diseases of the cervix: classification. Hyperplastic processes of the endometrium: etiology, pathogenesis, classification, modern diagnostic methods, management tactics and principles of treatment from the standpoint of evidence-based medicine. Prevention of background and precancerous diseases of the female genital organs.

Topic 6 Malignant neoplasms of the genitals. Trophoblastic diseases.

Malignant neoplasms of external female genital organs (vulvar cancer). Cervical cancer. Cancer of the body of the uterus. Uterine sarcoma. Ovarian cancer. Fallopian tube cancer. Classification, clinic, diagnosis, management tactics and principles from the standpoint of evidence-based medicine. Trophoblastic diseases. Modern diagnostic methods, management tactics, principles of treatment from the standpoint of evidence-based medicine and prevention.

Topic 7 Inflammatory diseases of female genital organs.

The concept of vaginal microbiocinosis. Etiology, pathogenesis, classification of inflammatory diseases of the female genital organs. Inflammatory diseases of nonspecific (vulvitis, bartholinitis, vaginitis, endocervicitis, endometritis, adnexitis, parametritis, pelvioperitonitis) and specific etiology. Tuberculosis of the female genital organs. Modern approaches to diagnosis and treatment from the standpoint of evidence-based medicine. Sexually transmitted diseases (trichomoniasis, gonorrhea, candidiasis, viral lesions, urea, mycoplasmosis, chlamydia). Diagnosis, treatment from the standpoint of evidence-based medicine and prevention of sexually transmitted diseases. Modern principles of treatment of acute and chronic inflammatory processes of female genital organs from the standpoint of evidence-based medicine. Management of patients with purulent tuboovarian tumor. Indications for surgical treatment from the standpoint of evidence-based medicine. Features of the course of inflammatory diseases of the female genital organs in different age periods, management tactics. Rehabilitation of women who have undergone inflammatory processes.

Topic 8 Urgent conditions in gynecology.

The problem of "Acute abdomen" in gynecology. Modern approaches to diagnosis, differential diagnosis, treatment from the standpoint of evidence-based medicine and prevention of urgent gynecological conditions. Ectopic pregnancy, ovarian apoplexy, ovarian tumor capsule rupture, ovarian tumor pedicle torsion, purulent tuboovarian tumor rupture. Emergency conditions in case of uterine myoma, violation of nutrition of the myomatous node. Traumatic damage to the genitals. The problem of emergency gynecological care, basic principles and methods of surgical interventions in emergency conditions in gynecology. Preoperative preparation and postoperative management of gynecological patients. Anesthesia during gynecological operations. Rehabilitation after gynecological interventions.

Topic 9 Anomalies of the development of female genital organs and disorders of puberty. Incorrect positions and traumatic damage to the female genital organs.

Etiology and pathogenesis of abnormalities in the development of female genital organs and disorders of puberty. Anomalies of the development of the hymen and vulva. Malformations of external genitalia. Malformations of the vagina. Anomalies of uterine development. Anomalies of fallopian tube development. Anomalies of ovarian development. Infantilism. Violation of sexual development. Normal (typical) position of the genitals. Incorrect positions of female genital organs. Traumatic damage to female genital organs. Modern diagnostic methods, tactics of management and treatment from the standpoint of evidence-based medicine.

Topic 10 Gynecological diseases in children and adolescents.

Anatomical and physiological features of the genitals of a girl in the process of the formation of the reproductive system. Peculiarities of examination of girls. Inflammatory diseases of genital organs in childhood and adolescence. Violation of menstrual function. Tumors and injuries of genital organs.

Topic 11 Typical surgical interventions and endoscopic surgery in gynecology. Curation of gynecological patients, preparation of medical history.

Preoperative preparation of gynecological patients. Management of the postoperative period. Operations on the vaginal part of the cervix. Operations for prolapse and prolapse of the genitals. Gynecological operations on the appendages and uterus. Minor gynecological operations. Endoscopic surgery (laparoscopy, hysteroscopy). Examination of a gynecological patient under the supervision of a teacher. The basics of counseling a gynecological patient under the supervision of a teacher. Medical ethics and deontology.

Topic 12 Infertility Family planning and methods of contraception.

Medical and social support for the problem of infertility in marriage. Etiopathogenetic factors of the development of infertility. Examination of a married couple in case of an infertile marriage. Modern principles and methods of treatment of female infertility (hormonal, surgical, the latest reproductive technologies) from the standpoint of evidence-based medicine. Application of modern auxiliary reproductive technologies. Organization, structure and tasks of the family planning service. Counseling on family planning: directions, advantages, counseling process. Family planning for people living with HIV infection. Modern aspects of contraception, general overview: COC, vaginal ring, contraceptive patch, PTP, injectable, IUD, barrier methods and spermicides. Classification, mechanism of action and effectiveness of modern contraceptives. Fertility recognition methods, voluntary surgical sterilization, emergency contraception. Assessment of the patient. Examinations are necessary, which are carried out in a planned manner before making a decision on the use of a specific method of contraception.

Topic 13 Implementation of practical skills and manipulations. Protection of medical history. Differentiated scoring

Carrying out a list of practical skills and manipulations in a simulation center (when lack of quarantine at the patient's bedside). Educational case history, based on the clinical curation of patients with the registration of examination data and additional research methods, with the aim of establishing and justifying the diagnosis and prescribing a treatment regimen. The differentiated assessment will include questions for the entire module "Diseases of the organs of the female reproductive system. Family planning", including: theoretical questions, questions for computer test control, as well as answering practical skills in the simulation center (in the absence of quarantine at the patient's bed).

5. Intended learning outcomes of the course

After successful study of the course, the student will be able to:

LO1	Be able to conduct surveys of gynecological patients of different age groups
LO2	To be able to determine the necessary list of laboratory and instrumental studies and evaluation of their results of gynecological patients
LO3	To be able to determine the required set of laboratory and instrumental studies and to evaluate their results.
LO4	To be able to establish a provisional and clinical diagnosis of disease
LO5	To be able to determine the principles of treatment of different gynecological diseases and treatment modality and to perform medical procedures
LO6	To be able to determine the necessary diet in the treatment course of the gynecological patients.

LO7	To be able to diagnose medical emergencies, determine the approach to emergency medical care, implement medical evacuation procedures
LO8	To be able to solve medical problems in new or unfamiliar environments given incomplete or limited information, taking into account aspects of social and ethical responsibility among gynecological patients.
LO9	To be able to perform sanitary and preventive measures.
LO10	To be able to perform disability examination for the gynecological patients.
LO11	To be able to maintain medical records, including electronic documents of the women with gynecological diseases.
LO12	To be able to assess the influence of environment, socioeconomic and biological determinants on the health of a patients, family, or population
LO13	To be able to present the main clinical syndrome by assessing the condition of gynecological patients.
LO14	To be able to integrate knowledge and solve complex health problems in a broad or multidisciplinary context
LO15	To be able to determine the necessary mode of work and rest in the treatment course of the gynecological patients
LO16	Be able to assess the general condition of a newborn child and provide emergency care to a newborn in the delivery room according to existing algorithms and standard schemes, observing the relevant ethical and legal norms
LO17	to be able to carry out medical evacuation of the population in the conditions of hostilities

6. Role of the course in the achievement of programme learning outcomes

Programme learning outcomes achieved by the course.

For 222 Medicine:

PO1	To detect and identify the leading clinical symptoms and syndromes (according to the List 1); to establish the most probable nosological or syndromic preliminary clinical diagnosis of diseases (according to the List 2) using standard methods, preliminary data of the patient's anamnesis, patient's examination data, and knowledge about a human, his organs and systems.
PO2	To collect information about the patient's general condition; to assess the patient's psychomotor and physical development and the state of organs and systems of the body; to assess information on the diagnosis (according to the List 4) based on laboratory and instrumental findings.
PO3	To order and analyze additional (mandatory and optional) examinations (laboratory, radiological, functional and/or instrumental) (according to the List 4) in order to perform a differential diagnosis of diseases (according to the List 2).
PO4	To establish a final clinical diagnosis at a medical institution under control of a supervising doctor by means of informed decision and logical analysis of the obtained subjective and objective data of clinical and additional examinations, and differential diagnosis, following the relevant ethical and legal norms (according to the List 2).

PO5	To detect the key clinical syndrome or the reason for patient's condition severity (according to the List 3) via informed decision and evaluation of the person's state under any circumstances (at home, in the street, at a healthcare facility), including under emergency and military operation conditions, in the field, with a lack of information and limited time.
PO6	To determine the nature and treatment principles (conservative, operative) in patients with diseases (according to the List 2) at a healthcare facility, at patient's home or during medical evacuation process (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures based on the principles of evidence-based medicine; if needed to go beyond the standard scheme, to substantiate the personalized recommendations under control of a supervising doctor at a medical facility
PO7	To determine an appropriate work and rest mode in the treatment of diseases (according to the List 2) at a healthcare institution, at patient's home and during medical evacuation (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures.
PO8	To determine an appropriate diet in the treatment of diseases (according to the List 2) at a healthcare institution, at patient's home and during medical evacuation (including in the field), based on the provisional clinical diagnosis and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures
PO9	Determine the approach, plan, and tactics for managing physiological pregnancy, physiological childbirth, and the postpartum period by making an informed decision based on existing algorithms and standard schemes.
PO10	To assess the general condition of a newborn child by making an informed decision according to existing algorithms and standard schemes and adhering to the relevant ethical and legal norms.
PO11	To determine the appropriate approach in emergency medical care case under any circumstances, adhering to the relevant ethical and legal norms, by making an informed decision based on the main clinical syndrome (disease severity) and emergency diagnosis (according to the List 3) using standard schemes under limited time conditions based on the principles of evidence-based medicine.
PO12	Provide emergency medical care, under any circumstances, adhering to relevant ethical and legal norms, by making a reasoned decision, based on the main clinical syndrome (severity of the condition) of the diagnosis of an emergency condition (according to list 3) in conditions of limited time according to the specified tactics, using standard schemes based on the principles of evidence-based medicine.
PO14	Perform medical procedures in a medical facility, at home, or at work based on a preliminary clinical diagnosis and/or patient condition indicators by making an informed decision, adhering to relevant ethical and legal standards.
PO15	Perform emergency medical care procedures in a time-limited setting, using standard procedures, under any circumstances based on an emergency diagnosis
PO16	Plan and implement a system of sanitary and hygienic and preventive measures for the occurrence and spread of diseases among the population

PO18	Find the necessary information in professional literature and databases of other sources, analyze, evaluate and apply this information. Apply modern digital technologies, specialized software, statistical methods of data analysis to solve complex healthcare problems.
PO19	Assess the impact of the environment on the health of the population.

7. Soft Skills

SS1	Ability to abstract thinking, analysis, and synthesis.
SS2	Ability to learn, master modern knowledge, and apply the knowledge in practice
SS3	Knowledge and understanding of the subject area and professional activity comprehension.
SS4	Ability to adapt and act in a new situation.
SS5	Ability to make reasoned decisions; teamwork ability; interpersonal skills
SS6	Ability to use information and communication technologies.
SS7	Determination and persistence on the tasks and commitments undertaken

8. Teaching and learning activities

<p>Topic 1. Anatomy and physiology of female genital organs. Methods of examination of gynecological patients. General symptomatology of gynecological diseases.</p>
<p>pr.tr.1 "Anatomy and physiology of female genital organs." (full-time course)</p> <p>linical anatomy of female genital organs. External genitalia. Internal genitalia. Blood circulation, lymphatic circulation and innervation of female genital organs. Age-related features of anatomy and physiology of female genital organs. Neuroendocrine regulation of reproductive system functions. The study of this topic involves theoretical work in the classroom, in the simulation center (working with phantoms, educational tables, gynecological instruments), the use of virtual simulation (watching films with further discussion). In the absence of quarantine restrictions, work in a women's consultation (according to the agreement on cooperation between medical institution and university).</p>

pr.tr.2 "Methods of examination of gynecological patients. General symptomatology of gynecological diseases." (full-time course)

Mastering the main examination methods: examination of the external genitalia, examination using mirrors, bimanual, rectovaginal examination. Methods of functional diagnostics. Radiation diagnostic methods: MRI, CT, MSG. Ultrasound, instrumental methods of examination: sounding of the uterine cavity, scraping of the uterine cavity, biopsy of the endometrium, cervix, puncture of the abdominal cavity through the posterior vault. Endoscopic research methods: colposcopy, hysteroscopy, laparoscopy. Laboratory diagnostics: oncocytology, bacterioscopy, bacteriology, ELISA, PCR, pathological examination. work with phantoms, educational tables, gynecological instruments). The study of this topic involves theoretical work in a classroom, a simulation center, and application virtual simulation (viewing films with examination methods in gynecology with further discussion. In the absence of quarantine restrictions, work in a women's consultation (learn to collect a gynecological history, perform a gynecological examination (inspection in mirrors, bimanual, rectal), take material from the vagina, cervical canal and urethra to evaluate: the results of urogenital smear microscopy, oncocytological examination, colposcopy; the results of bacteriological and other methods of identifying the causative agents of inflammatory diseases of the female genital organs; the results of ultrasound examination; the results of functional diagnostic tests.

Topic 2. Neuroendocrine regulation. Violations of the functions of the reproductive system.

pr.tr.3 "Neuroendocrine regulation." (full-time course)

Neuroendocrine regulation of the menstrual cycle. Phases of the menstrual cycle, levels of regulation. The study of this topic involves theoretical work in the classroom, in the simulation center (working with phantoms, educational tables, gynecological instruments), the use of virtual simulation (watching films about the neuroendocrine regulation of the menstrual cycle) with further discussion.

pr.tr.4 "Violations of the functions of the reproductive system." (full-time course)

Classification of disorders of the function of the reproductive system. Amenorrhea: classification, diagnosis. Abnormal uterine bleeding. Clinic, modern methods of diagnosis and principles of treatment. The problem of menstrual dysfunction in different age periods. Modern methods of diagnosis and treatment. The study of this topic involves theoretical work in the classroom, in the simulation center (working with phantoms, educational tables, gynecological instruments), the use of virtual simulation. Provided there are no quarantine restrictions, work in a women's consultation (according to the cooperation agreement between the medical institution and the university).

Topic 3. Neuroendocrine syndromes in a gynecologist

pr.tr.5 "Neuroendocrine syndromes in gynecology.Pr5 "Issues of gynecological endocrinology. Neuroendocrine syndromes: premenstrual, menopausal, polycystic ovary syndrome"" (full-time course)

Issues of gynecological endocrinology. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome. Clinic, modern methods of diagnosis and principles of treatment from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (working with phantoms, educational tables, gynecological instruments), the use of virtual simulation (watching films with further discussion). Provided there are no quarantine restrictions, work in a women's consultation with mastering the skills of consulting gynecological patients, conducting functional diagnostic tests (according to the agreement on cooperation between the medical institution and the university).

pr.tr.6 "Issues of gynecological endocrinology. Neuroendocrine syndromes in gynecology: Sheehan's syndrome, hyperandrogenism, hyperprolactinemia"" (full-time course)

Sheehan's syndrome, hyperandrogenism, hyperprolactinemia. Clinic, modern methods of diagnosis and principles of treatment from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (working with phantoms, educational tables, gynecological instruments), the use of virtual simulation (watching films with further discussion). Provided there are no quarantine restrictions, work in a women's consultation with mastering the skills of consulting gynecological patients, conducting functional diagnostic tests (according to the agreement on cooperation between the medical institution and the university).

Topic 4. Benign tumors of the female genital organs. Genital endometriosis. Gynecological aspects of diseases of the mammary gland.

pr.tr.7 "Gynecological aspects of diseases of the mammary gland." (full-time course)

Basic gynecological aspects of breast diseases. Modern diagnostic methods, management tactics, treatment from the standpoint of evidence-based medicine and prevention. Study of this topic involves theoretical work in a classroom, a simulation center (work with a mammary gland phantom), application of virtual simulation (view thematic films with further discussion). In addition, when studying this topic role-playing games are expected, in the absence of quarantine restrictions, work at the bedside the patient in specialized departments of the medical institution (according to the agreement on cooperation between a medical institution and a university): mastering palpation skills mammary gland, detection of pathological symptoms: nipple retraction, tissue compaction mammary gland, detection of the lemon peel symptom, discharge from the nipple, increase axillary lymph nodes, work in the office of ultrasound diagnostics, distinguish breast tumors according to the Bi-RADS classification. Work in the mammography office: to be able to interpret mammographic images, distinguish pathological formations in the mammary glands.

pr.tr.8 "Benign tumors of the female genital organs. Genital endometriosis." (full-time course)

Benign tumors and tumor-like diseases of the female genital organs. Concept ovarian cysts and tumors. Bartholin gland cyst. Benign ovarian tumors: epithelial, stromal tumors of the genital tract, lipid-cell tumors, germinogenic tumors Tumor-like formations of the ovaries. Benign uterine tumors. Clinic, modern methods of diagnosis, treatment from the standpoint of evidence-based medicine. Problem endometriosis Etiopathogenetic aspects of endometriosis. Classification. Clinic. Study of this topic involves theoretical work in a classroom, a simulation center (work with gynecological instruments), application of virtual simulation (view films with further discussion). Work in a women's consultation with the development of skills consultative reception of gynecological patients, work in the ultrasound office diagnostics, to be able to distinguish tumor-like diseases of the ovaries by classification O-RADS, work in a small operating room with the development of diagnostic scraping skills uterine cavity, endometrial biopsy, hysteroscopy, presence in the operating room under time of surgical treatment of topical patients with endometriosis with application laparoscopic technique (according to the cooperation agreement between the medical institution and university, provided there are no quarantine restrictions). Master diagnostic methods, treatment and prevention of endometriosis.

Topic 5. Background and precancerous diseases of female genital organs.

pr.tr.9 "Background diseases of female genital organs." (full-time course)

Background diseases of external genital organs. Precancerous diseases of the cervix: classification. Hyperplastic processes of the endometrium: etiology, pathogenesis, classification, modern diagnostic methods, management tactics and principles of treatment from the standpoint of evidence-based medicine. Prevention of background diseases of the female genital organs.

pr.tr.10 ""Precancerous diseases of the external genital organs." (full-time course)

Precancerous diseases of external genital organs. Precancerous diseases of the cervix: classification, diagnosis. Atypical hyperplasia of the endometrium: etiology, pathogenesis, classification, modern diagnostic methods, management tactics and principles of treatment from the standpoint of evidence-based medicine. Precancerous diseases of female genital organs. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, working with a colposcope, mastering the skills of cytological examination of the cervix, sampling material for biopsy (according to the cooperation agreement between the university and the clinical institution, provided there are no quarantine restrictions)

Topic 6. Malignant neoplasms of the genitals. Trophoblastic diseases.

pr.tr.11 "Malignant neoplasms of the genitals." (full-time course)

Malignant neoplasms of external female genital organs (vulvar cancer). Cervical cancer. Cancer of the body of the uterus. Uterine sarcoma. Ovarian cancer. Fallopian tube cancer. Classification, clinic, diagnosis, management tactics and principles of treatment from the standpoint of evidence of medicine Trophoblastic diseases. The study of this topic involves theoretical work in a classroom, a simulation center (work with gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). Work at the patient's bedside in specialized departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Interpreting the results of laboratory and instrumental methods of examination, drawing up a treatment plan, working in the ultrasound diagnostic office, being able to distinguish tumor-like diseases of the ovaries according to the O-RADS classification, working in a small operating room with mastering the skills of diagnostic scraping of the uterine cavity, endometrial biopsy, hysteroressectoscopy (provided there are no quarantine restrictions). Mastering modern methods of early diagnosis, patient management tactics, principles of treatment and prevention of malignant neoplasms of female genital organs, basics of patient rehabilitation

pr.tr.12 "Trophoblastic diseases" (full-time course)

Trophoblastic diseases. Modern diagnostic methods, management tactics, principles of treatment from the standpoint of evidence-based medicine and prevention. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). Work at the patient's bedside in specialized departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Interpretation of the results of laboratory and instrumental examination methods, drawing up a treatment plan

Topic 7. Inflammatory diseases of female genital organs.

pr.tr.13 "Inflammatory diseases of the female genital organs (non-specific)." (full-time course)

The concept of vaginal microbiocinosis. Etiology, pathogenesis, classification of inflammatory diseases of the female genital organs. Inflammatory diseases of nonspecific (vulvitis, bartholinitis, vaginitis, endocervicitis, endometritis, adnexitis, parametritis, pelvioperitonitis) and specific etiology. Modern approaches to diagnosis and treatment from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (work with simulators, gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). In addition, when studying this topic, role-playing games are expected, and in the absence of quarantine restrictions, work at the bedside the patient in specialized departments of the medical institution (according to the cooperation agreement between the medical institution and the university). Drawing up a treatment plan for the patient. Work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive anamnesis, working in an ultrasound diagnostic office, gynecological department, working in a small operating room with mastering the skills of puncture through the posterior vault, laparoscopic operating room.

pr.tr.14 "Inflammatory diseases of the female genital organs (specific or sexually transmitted infections)." (full-time course)

Sexually transmitted diseases (trichomoniasis, gonorrhea, candidiasis, viral lesions, urea, mycoplasmosis, chlamydia). Tuberculosis of the female genital organs. Modern approaches to diagnosis and treatment. Diagnosis, treatment and prevention of sexually transmitted diseases. Master the methods of modern diagnosis and treatment of acute and chronic inflammatory processes of the female genital organs from the standpoint of evidence-based medicine, management of patients with purulent tuboovarian tumors. Indications for surgical treatment. To study the possibilities of the course of inflammatory diseases of the female genital organs in different age periods, to master the tactics of management and further rehabilitation of women who have undergone inflammatory processes. The study of this topic involves working in a classroom, a simulation center (working with gynecological instruments), using virtual simulation (viewing thematic films with further discussion). Work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive anamnesis, working in an ultrasound diagnostic room, gynecological department, working in a small operating room with mastering the skills of puncture through the posterior vault, laparoscopic operating room for tuboovarian abscess removal .

Topic 8. Urgent conditions in gynecology.

pr.tr.15 "Urgent conditions in gynecology (ectopic pregnancy, ovarian apoplexy, rupture of the ovarian tumor capsule)." (full-time course)

The problem of "Acute abdomen" in gynecology. Modern approaches to diagnosis, differential diagnosis, treatment from the standpoint of evidence-based medicine and prevention of emergency conditions in gynecology. Ectopic pregnancy, ovarian apoplexy, ovarian tumor capsule rupture. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (watching films with further discussion). In addition, when studying this topic, role-playing games are expected, in the absence of quarantine restrictions, work at the patient's bedside in specialized departments of a medical institution (according to the cooperation agreement between the medical institution and the university). Drawing up a treatment plan for the patient.

pr.tr.16 "Urgent conditions in gynecology (torsion of the pedicle of an ovarian tumor, rupture of a purulent tuboovarian tumor, birth of a myomatous node, violation of nutrition of a myomatous node)." (full-time course)

Urgent conditions in gynecology (torsion of the pedicle of an ovarian tumor, rupture of a purulent tuboovarian tumor, birth of a myomatous node, violation of nutrition of a myomatous node). The problem of emergency gynecological care, basic principles and methods of surgical interventions in emergency conditions in gynecology. Acquaintance with the peculiarities of preoperative preparation and postoperative management of gynecological patients. Anesthesia during gynecological operations. Rehabilitation after gynecological interventions. The study of this topic involves theoretical work in the classroom room, application of virtual simulation (viewing films with emergency conditions in gynecology) with further discussion. In addition, when studying this topic, in the absence of quarantine restrictions, work at the patient's bedside in specialized departments of a medical institution is expected (according to the cooperation agreement between the medical institution and the university). Interpretation of the results of laboratory and instrumental examination methods, drawing up a treatment plan.

Topic 9. Anomalies of the development of female genital organs and disorders of puberty. Incorrect positions and traumatic damage to the female genital organs.

pr.tr.17 "Anomalies of the development of female genital organs and disorders of puberty." (full-time course)

Etiology and pathogenesis of abnormalities in the development of female genital organs and disorders of puberty. Anomalies of the development of the hymen and vulva. Malformations of external genitalia. Malformations of the vagina. Anomalies of the development of the uterus. Anomalies of fallopian tube development. Anomalies of ovarian development. Infantilism. Violation of sexual development. Normal (typical) position of the genitals.

pr.tr.18 "Incorrect positions and traumatic damage to the female genital organs." (full-time course)

Incorrect positions of female genital organs. Traumatic damage to female genital organs. Modern diagnostic methods, tactics of management and treatment from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (working with a phantom, gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). In the absence of quarantine restrictions, work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive history, mirror examination, bimanual palpation (according to the agreement on cooperation between the medical institution and the university). Acquaintance with the peculiarities of vaginal surgery for genital prolapse (presence in the operating room together with the teacher).

Topic 10. Gynecological diseases in children and adolescents.

pr.tr.19 ""Inflammatory diseases of genital organs in childhood and adolescence"" (full-time course)

Anatomical and physiological features of a girl's genitals during the formation of the reproductive system. Peculiarities of examination of girls. Inflammatory diseases of genital organs in childhood and adolescence. The study of this topic involves theoretical work in a classroom, a simulation center (working with a phantom, gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). In the absence of quarantine restrictions, working in a women's consultation with mastering the skills of consulting a pediatric gynecologist, collecting gynecological history (according to the agreement on cooperation between the medical institution and the university)

pr.tr.20 "Menstrual cycle dysfunction" (full-time course)

Violation of menstrual function. Tumors and injuries of genital organs. The study of this topic involves theoretical work in a classroom, a simulation center (working with a phantom, gynecological instruments), the use of virtual simulation (viewing thematic films with further discussion). In the absence of quarantine restrictions, work in a women's consultation with mastering the skills of consulting a pediatric gynecologist, collecting gynecological history (according to the cooperation agreement between the medical institution and the university)

Topic 11. Typical surgical interventions and endoscopic surgery in gynecology. Curation of gynecological patients, preparation of medical history.

pr.tr.21 "Typical surgical interventions and endoscopic surgery in gynecology." (full-time course)

Preoperative preparation of gynecological patients. Management of the postoperative period. Operations on the vaginal part of the cervix. Operations for prolapse and prolapse of the genitals. Gynecological operations on the appendages and uterus. Minor gynecological operations. Endoscopic surgery (laparoscopy, hysteroscopy). Acquaintance with the peculiarities of preoperative preparation and postoperative management of gynecological patients. Anesthesia during gynecological operations. Rehabilitation after gynecological interventions. of this topic involves theoretical work in a classroom, a simulation center (work with gynecological instruments), the use of virtual simulation (viewing films with recordings of operative interventions with further discussion). In the absence of quarantine restrictions, work in the gynecological department, a small operating room with mastering the skills of puncture through the posterior vault, endoscopic operating room, attendance at operations (according to the cooperation agreement between the medical institution and the university).

pr.tr.22 "Curation of gynecological patients, preparation of medical history." (full-time course)

Examination of a gynecological patient under the supervision of a teacher. The basics of counseling a gynecological patient under the supervision of a teacher. Medical ethics and deontology. The study of this topic involves theoretical work in the classroom, work at the bedside the patient Work with medical documentation: interpretation of received data from laboratory studies, endoscopic examination, x-ray and ultrasound examination of the patient in the departments of the medical institution (according to agreement on cooperation between a medical institution and a university in the absence of quarantine restrictions).

Topic 12. Infertility Family planning and methods of contraception.

pr.tr.23 "Infertility." (full-time course)

Medical and social support for the problem of infertility in marriage. Study of modern principles and methods of treatment of female infertility (hormonal, surgical, latest reproductive technologies). Peculiarities of the use of modern auxiliary reproductive technologies. Etiological factors of the development of infertility. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual simulation (viewing thematic films with the algorithm for examining a married couple in case of infertility, the use of auxiliary reproductive technologies with further discussion). In the absence of quarantine restrictions, work in a women's consultation with mastering the skills of consulting gynecological patients, collecting gynecological and reproductive anamnesis, mirror examination, bimanual palpation (according to the cooperation agreement between the medical institution and the university).

pr.tr.24 "Family planning and methods of contraception" (full-time course)

Organization, structure and tasks of the family planning service . Counseling on family planning: directions, advantages, counseling process. Family planning for people living with HIV infection. Classification, mechanism of action and effectiveness of modern contraceptives from the standpoint of evidence-based medicine. The study of this topic involves theoretical work in a classroom, a simulation center (working with gynecological instruments), the use of virtual

Topic 13. Implementation of practical skills and manipulations. Protection of medical history. Differentiated scoring

pr.tr.20 "Differentiated scoring." (full-time course) The final class will include theoretical questions, questions for computer test control, which involve classes in the study room.
pr.tr.25 "Performance of practical skills and manipulations" (full-time course) Performance of practical skills and manipulations in the simulation center, if possible - at the patient's bedside in the gynecological department of the hospital.
pr.tr.27 "Protection of medical history." (full-time course) Educational medical history based on clinical curation of patients with registration examination data and additional research methods, in order to establish and substantiation of the diagnosis and prescription of the treatment regimen.

9. Teaching methods

9.1 Teaching methods

Course involves learning through:

TM1	Electronic learning
TM2	Case-based learning
TM3	Gamified learning
TM4	Lecture teaching
TM5	Practical training
TM6	Research Based Learning
TM7	Self-study

The discipline is taught using modern teaching methods (CBL, TBL, RBL), which contribute not only to the development of professional abilities, but also encourage creative and scientific activity

Acquisition of soft skills by students is carried out during the entire period of studying the discipline. Ability to analytical and critical thinking, teamwork, perseverance is formed during team-, practice- and case-oriented training, knowledge and understanding of the subject area is acquired during lectures and self-study. Electronic education stimulates the ability to use information technologies. training on on the basis of research encourages the development of certainty and persistence in relation to the set tasks and assumed responsibilities.

9.2 Learning activities

LA1	Writing and defense of medical history
LA2	Interactive lectures
LA3	Analysis of clinical cases
LA4	Interpretation of laboratory (clinical blood analysis, urine, biochemical blood analysis, hormonal research, etc.) and instrumental (colposcopy, hysteroscopy, mammography, ultrasound, CT, radiography, etc.) examination methods

LA5	Preparation for practical classes
LA6	Performing a group practical task
LA7	Electronic learning in systems (Zoom, MIX.sumdu.edu.ua)
LA8	Practical work with the patient in specialized departments of the hospital
LA9	Individual research project (student research paper, article, theses, etc.)
LA10	Work with textbooks and relevant information sources
LA11	Practicing practical skills in the simulation center
LA12	Preparation for differentiated assessment

10. Methods and criteria for assessment

10.1. Assessment criteria

Definition	National scale	Rating scale
Outstanding performance without errors	5 (Excellent)	$170 \leq RD \leq 200$
Above the average standard but with minor errors	4 (Good)	$164 \leq RD < 169$
	4 (Good)	$140 \leq RD < 163$
Fair but with significant shortcomings	3 (Satisfactory)	$127 \leq RD < 139$
	3 (Satisfactory)	$120 \leq RD < 126$
Fail – some more work required before the credit can be awarded	2 (Fail)	$70 \leq RD < 119$
	2 (Fail)	$0 \leq RD < 69$

10.2 Formative assessment

	Description	Deadline, weeks	Feedback
FA1 Peer assessment	Partnership interaction, aimed at improving results educational activity for comparison account own current level of success with previous ones indicators. Provides possibility of analysis own education activities	During the entire period of studying the discipline	Adjustment of approaches to learning together with students, taking into account the results of the assessment

FA2 Counseling of the teacher during the writing of the medical history	Writing history disease predicts demonstration of skill work with the patient consolidation of practical patient examination skills, assessment and analysis medical documentation, establishment of clinical diagnosis with elements differential diagnostics, appointment of treatment. Anticipated protection medical history when the student must provide answers to questions regarding the patient.	Writing during the cycle, defense - in accordance with the calendar and thematic plan	Counseling of the teacher during the writing of the medical history with oral comments. The applicant receives a grade for writing a medical history (5 points maximum) and defense (5 points maximum)
FA3 Protection of an individual research project (speech at a conference, competition of scientific works)	n important factor formation professional qualities there are future specialists Scientific research work students Involvement the last to research activity contributes to the formation their scientific outlook, hard work, working capacity, initiative, etc.	During the entire period of studying the discipline	Teacher's oral comments. The student is given additional incentive points (from 5 to 10), depending on the type of research project
FA4 Instructions of the teacher in the process of performing practical tasks	n the instructions methods are disclosed pedagogical control by professional activities of acquirers. Efficiency is defined compliance with all stages implementation of practical tasks Effectiveness formation necessary practical abilities and skills depends on the level formation practical competence.	During the entire period of studying the discipline	Counseling of students in working with a standardized patient, direct and indirect observation of the work of applicants "at the bedside" of the patient with subsequent determination of the level of practical training

FA5 Survey and teacher's oral comments based on his results	Makes it possible to identify the state of educational experience acquired by students in accordance with the set goals, to find out the prerequisites for the state of formation of the obtained results, the causes of difficulties, to adjust the learning process, to track the dynamics of the formation of learning results and to forecast them development.	During the entire period of studying the discipline	According to the obtained data on the results of training, based on their analysis, it is proposed to determine the evaluation as an indicator of the achievements of the educational activities of the applicants
FA6 Final testing	The effective method level checks assimilation of knowledge, skills and educational skills disciplines Testing allows you to check results of training on completion of the discipline.	In the last discipline lesson.	The maximum number of points for the test is 10 points, provided that 100% of the answers are correct. The minimum score for successfully passing the tests is 6 points (60% of correct answers
FA7 Solving clinical cases	The case method allows to reveal and form necessary for further labor activity qualities and abilities medical students, forms clinical thinking, analytical abilities, independence in making a decision, communication skills, skills to work with big enough volume of information	During the entire period of studying the discipline	Assessment of the student's ability to think clinically, justify their decisions, clearly express their opinions, determine the level of theoretical training, which is reflected in the corresponding assessment

FA8 Tests (automated tests) to control the educational achievements of applicants	The effective method level checks assimilation of knowledge, skills and skills from each topic academic discipline. Testing allows check learning educational material from of each topic	During the entire period of studying the discipline	the student must provide 60% of the correct answers, which is an admission to the practical part of the lesson
FA8 Tests (automated tests) to control the educational achievements of applicants	The effective method level checks assimilation of knowledge, skills and skills from each topic academic discipline. Testing allows check learning educational material from of each topic	During the entire period of studying the discipline	the student must provide 60% of the correct answers, which is an admission to the practical part of the lesson
FA9 The task of assessing the level of theoretical training	Evaluation of acquired theoretical know-how from subjects of the discipline. It is held on to everyone practical occupation respectively specific goals of each topic based complex performance evaluation student, which includes level control theoretical training, independent performance work according to thematic plan	During the entire period of studying the discipline	Feedback is aimed at supporting students' independent work, identifying shortcomings and assessing the level of acquired theoretical knowledge
FA10 Practical skills test	Working out practical skills on various dummies and simulators.	During the entire period of study. At the last lesson, the student must successfully perform practice	Successful completion of practical skills in the discipline is a prerequisite for taking the exam. The maximum number of points is 20, the minimum is 12

FA11 Discussions in focus groups	The method allows involve all participants to the discussion process and justification by own thought multilateral communications, develop the ability to conduct a professional discussion, educate respect for colleagues and ability to generate alternative ideas and proposals	During the entire period of studying the discipline	Assessment of the student's ability to work in a team, ability to justify their decisions, determination of the level of theoretical training, which is reflected in the corresponding assessment
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10.3 Summative assessment

	Description	Deadline, weeks	Feedback
SA1 Final control: diff. test	Drafting offset Before assembly credits are allowed acquirers who are successful learned the material from disciplines, made up practical skills, passed computer testing and protected medical history	last lesson	the applicant can receive 80 points for credit. The minimum number of points a student must receive is 48 points
SA2 Assessment of medical history preparation and defense	Writing history disease predicts demonstration of skill work with the patient consolidation of practical physical skills examination of the patient, assessment and analysis medical documentation, establishment of clinical diagnosis with elements differential diagnostics, appointment of treatment. Anticipated protection medical history when the student must provide answers to questions regarding the patient	last lesson	A student can get a maximum of 10 points. 5 points are awarded for writing, 5 points for defense. The minimum number of points for a successful defense is 6 points
SA3 Final testing	he effective method level checks assimilation of knowledge, skills and educational skills disciplines Testing allows you to check learning outcomes during the cycle and determine the level of knowledge upon completion disciplines	Final computer test at the end of the course (10 points)	t is an admission to the preparation of the theoretical part of the differential credit

SA4 Assessment of performance of practical skills and manipulations	Comprehensive working out practical component educational programs discipline in safe for education seekers simulation environment Provides opportunity to master skills from a variety of emergency situations	At the penultimate discipline lesson, the student must successfully complete a list of practical ski	It is mandatory for admission to the differential credit. The maximum number of points is 20, the minimum is 12
SA5 Assessment of the level of theoretical training	Forms skills independent activity in students, encourages to the desire of the searcher knowledge. Stimulates students to work with necessary literature, translates the process learning from the level passive absorption information per level active her transformation	During the entire period of studying the discipline	At each lesson, the result of the ND performance affects the comprehensive assessment for the practical lesson

Form of assessment:

	Points	Можливість перескладання з метою підвищення оцінки
The first semester of teaching	200 scores	
SA1. Final control: diff. test	80	
Answers to theoretical questions(3x15)	45	No
Performing a practical task	15	No
Providing emergency care	20	No
SA2. Assessment of medical history preparation and defense	10	
	10	No
SA3. Final testing	10	
	10	No
SA4. Assessment of performance of practical skills and manipulations	20	
	20	No
SA5. Assessment of the level of theoretical training	80	
	80	No

When learning the materials of the module, the student is awarded a maximum of 5 points for each practical session (the grade is given in the traditional 4-point grading system). At the end of the academic year, the student's arithmetic average is calculated. The maximum number of points that a student can receive in practical classes during the academic year is 100. The number of points of a student is calculated using the formula of multiplying 100 by the arithmetic mean and dividing by 5.

The following points are assigned for writing a medical history: "5" - 5 points, "4" - 4 points, "3" - 3 points, "2" - 0 points. Medical history protection: "5" - 5 points, "4" - 4 points, "3" - 3 points, "2" - 0 points. In general, the student can receive a maximum of 10 points for the medical history, the minimum required point is 6. For diagnostic testing, the student receives a maximum of 10 points. The minimum number of points that a student must receive is 6 points. The maximum number of points for the student's current educational activity is 120. The student is admitted to the diff. credit provided that the requirements of the educational program are met and if he has scored at least 72 points for the current educational activity: 60 points during practical classes, 6 points for medical history and 6 points for testing. Differentiated crediting is carried out according to the schedule at the end of the cycle. The tickets contain 3 theoretical questions on a variety of subjects and cover all sections of the academic discipline (15 points each), 1 practical task (15 points) and questions on providing emergency care (20 points). Diff. the credit is given to the student if he scored at least 48 points out of 80. Encouraging points are added to the grade in the discipline for the implementation of an individual research project (defense of the student thesis 12 points, presentation at the conference 5 points, poster presentation at the conference 4 points, theses of the reports 3 points). The total score for the discipline cannot exceed 200 points.

11. Learning resources

11.1 Material and technical support

MTS1	Information and communication systems
MTS2	Library funds, archive of radiographs, computer tomograms, ultrasound, results of laboratory examination methods
MTS3	Computers, computer systems and networks
MTS4	The simulation center is equipped with a phantom of the female pelvis, a training dummy for practicing practical skills: insertion and removal of an intrauterine contraceptive, insertion and removal of a vaginal ring, dummies of individual organs: a uterus for practicing the methods of taking material for bacterioscopic examination, a set of tools: a Kuzko mirror, a Simpson mirror with retractor, set of brushes, ball forceps, uterine probe, slide
MTS5	KNP SOR "Regional Clinical Perinatal Center", KNP "Clinical Maternity Hospital of the Blessed Virgin Mary", Medical Center "MedSoyuz", KNP TsMKL
MTS6	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, screens, laptops)
MTS7	Software (to support distance learning, Internet surveys, virtual laboratories, virtual patients, to create computer graphics, modeling, etc., etc.)
MTS8	Medical equipment (colposcope, IUD insertion simulator, gynecological examination kit, cervical brushes, slides, ultrasound machine, digital mammogram, hysteroscope, laparoscopic stand, etc.)

11.2 Information and methodical support

Essential Reading

1	Medicine according to Davidson. Principles and practice [Text]: manual: in 3 volumes, T.3 / S. Ralston, J. Penman, M. Straken, R. Hobson; of science ed. trans.: I. Skrypnyk, O. Kuryata, L. Sokolova and others. — trans. 23rd Eng. kind. — Kyiv: Medicine, 2021. — 642 c.
2	USMLE Step 2 CK: Obstetrics/Gynecology [Текст] : Lecture Notes / Editors W.G. Cvetnic, E. Pino. — New York : Kaplan, 2019. — 291 p
3	Obstetrics and gynecology [Text]: textbook: in 2 books. Book 1: Obstetrics / V. I. Hryshchenko, M. O. Shcherbina, B. M. Ventskivskyi and others. ; edited by: V.I. Hryshchenko, M.O. Cracks — 4th ed., pp. — Kyiv: Medicine, 2020. — 424 p. + Grif MOH, Grif MO
4	Obstetrics and gynecology [Text]: textbook: in 2 books. Book 2: Gynecology / V. I. Hryshchenko, M. O. Shcherbina, B. M. Ventskivskyi and others. ; edited by: V.I. Hryshchenko, M.O. Cracks — 3rd ed., pp. — Kyiv: Medicine, 2020. — 376 p. + Grif MOH, Grif MON.
5	Modern approaches to the diagnosis and treatment of benign tumors of the ovaries [Text]: training. manual / V. I. Boyko, N. V. Kalashnyk, A. V. Boyko. — Sumy: Sumy State University, 2019. — 267 p.
Supplemental Reading	
1	4539 Методичні вказівки з виробничої практики з циклу "Акушерство та гінекологія" [Електронний ресурс] : для студ. IV курсу за спец. 222 "Медицина" / Н. А. Болотна, Н. А. Іконописцева, С. А. Сміян та ін. — Електронне видання каф. Акушерства і гінекології. — Суми : СумДУ, 2019. — 26 с.
2	Obstetrics and gynecology [Text]: education. manual / M. A. Bolotna, V. I. Boyko, T. V. Babar. — Sumy: Sumy State University, 2018. — 307 p.
3	Obstetrics and gynecology [Text]: education. manual / M. A. Bolotna, V. I. Boyko, T. V. Babar. — Sumy: Sumy State University, 2018. — 307 p
4	Obstetrics and gynecology [Text]: textbook: in 2 books. Book 1: Obstetrics / V. I. Hryshchenko, M. O. Shcherbina, B. M. Ventskivskyi and others. ; edited by: V.I. Hryshchenko, M.O. Cracks — 3rd ed., ed. — K.: Medicine, 2017. — 424 p. + Grif MOH, Grif MON.
5	Obstetrics and gynecology [Text]: textbook: in 2 books. Book 2: Gynecology / V. I. Hryshchenko, M. O. Shcherbina, B. M. Ventskivskyi and others. ; edited by: V.I. Hryshchenko, M.O. Cracks — 2nd ed., ed. — K.: Medicine, 2017. — 376 p. + Grif MOH, Grif MON.
6	Operative gynecology [Text]: teaching. manual / Yu. S. Paraschuk, M. G. Hryshchenko, V. Yu. Paraschuk, R. A. Safonov. — H.: Kharkiv National. honey. University, 2017. — 132 p
7	Hacker and Moore's Essentials of Obstetrics and Gynecology [Текст] / N. F. Hacker, J. C. Gambone, C. J. Hobel. — 6th edition. — Philadelphia : Elsevier, 2016. — 497 p.
8	Obstetrics and gynecology. Workshop [Text] / V. K. Likhachev, L. M. Dobrovolska, L. M. Semenyuk, L. V. Yaremchuk. — Poltava: Dyvosvit, 2014. — 200 p.

9	Obstetrics and gynecology [Text]: textbook: in 4 vols. Volume 3: Non-operative gynecology / Ed.
10	Obstetrics and gynecology [Text]: textbook: in 4 vols. T.4: Operative gynecology / Ed. V.M. Confused — K.: Medicine, 2014. — 696 p. + Grif MON, Grif MOZ.