MINISTRY OF HEALTH OF UKRAINE ZAPORIZHZHIA STATE MEDICAL UNIVERSITY Department of Obstetrics and Gynecology

DISEASES OF THE WOMEN'S REPRODUCTIVE SYSTEM. FAMILY PLANNING

SECTION 1

Practicum for students of the IV year of medical faculties of specialties "<u>General</u> <u>Medicine</u>", "Pediatrics"

> Zaporizhzhia 2020

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AUTHORS:

Mychailo Pavliuchenko - Associate Professor of the Department of Obstetrics and Gynecology, <u>Candidate of Medical Science</u>;

<u>REVIEWER</u>S:

Dmutro Barkovskiy – professor, <u>Doctor of Medicine</u>, Zaporizhzhia State Medical University.

Olga Shapoval – Associate Professor, <u>Doctor of Medicine</u>, Zaporizhzhia State Medical University.

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The practucum is designed for the training: specialists of the second (master) level of higher education in the field of knowledge 22 "Health care" at the institutions of higher education of the Ministry of Health of Ukraine in the specialty 222 "Medicine", qualifications of the educational "Master of Medicine", professional qualification "Doctor"

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CONTENT

Preface..... Clinical anatomy and physiology of female genitalia. Methods of examination of gynecological patients. General symptomatology in gynecology. Reproductive system disorders. Neuroendocrine syndromes in gynecology Benign tumors of female genital organs. Endometriosis Background and precancerous diseases of female genital organs. Malignant neoplasms of the genitals. Trophoblastic diseases Inflammatory diseases of female genital organs Acute abdomen syndrome in gynecology Family Planning Curation of patients, preparation of educational case history. Defence of the case history. Test control

PREFACE

The practicum was created in accordance with the approved work program for the training of specialists of the second (magister's) level of higher education in the field of knowledge 22 "Health" at the Department of Obstetrics and Gynecology of Zaporizhzhya State Medical University in order to improve the methodological component of teaching Section 1. Diseases of the women's reproductive system. Family planning.

Using the Practicum will help to systematize the method of preparing students for each practical lesson of this section, to focus on the study of the the fundamental questions and practical skills that students should master during the cycle. In this practucum there are basic types of test tasks and situational tasks, which will allow to check the level of preparation of students for the practical classes and additionally prepares students for passing licensing exams. A separate sections for each practical session in the Practicum provides a list of basic and additional educational literature that is recommended for study.

CLINICAL ANATOMY AND PHYSIOLOGY OF FEMALE GENITALIA. METHODS OF EXAMINATION OF GYNECOLOGICAL PATIENTS. GENERAL SYMPTOMATOLOGY IN GYNECOLOGY. REPRODUCTIVE SYSTEM DISORDERS. NEUROENDOCRINE SYNDROMES IN GYNECOLOGY

I. SCIENTIFIC-METHODOLOGICAL THEMATIC JUSTIFICATION (TOPICALITY):

Gynecology is the science about woman who studies the normal activity of the female body, diseases associated with the characteristics of the female body in different periods of her life.

The knowledge gained during the study of the course of normal and pathological anatomy, histology, normal and pathological physiology is a very important basis for advanced professional development of the gynecological topics, devoted to the physiology of female genitalorgans and obtaining primary practical skills about modern methods examination and treatment. It is the knowledge of the questions of the construction of the external and internal genital organs, the physiology of the menstrual cycle allows substantiate the feasibility of a detailed study of disorders of the female reproductive function, as a basic issue in understanding the etiopathogenesis, diagnosis and treatment of most gynecological diseases.

The teacherpays great attention to the collection of gynecological medical history. Different gynecological pathologies can have very similar symptoms, so no matter what the pathology, women's complaints will often be identical. The main gynecological complaints are: pathological discharge from the genital tract, pain, uterine bleeding, disturbancefunction of next organs, impaired sexual and reproductive function, itching of the external genitalia. When considering major complaints, the teacherdraws attention to a variety of etiological causes.

When collecting the medical history, the main functions are revealed: secretory, menstrual, sexual, reproductive, a interview is conducted regarding data on the status of other organs and systems of women.

For the logicalcombination of information about the anatomy, physiology of the female genital organs, as well as facilitating the work on the development of this topic should clarify the issues of regulation of menstrual function, pay attention to the levels of regulation, synchronous interaction, biosynthesis and metabolism of hormones, their effect on the study of organs and targets between menstrual, generative functions and other organs and systems of women.

During the collection of gynecological anamnesis, the teacherpays great attention to the characteristics of menstrual function, the risk factors for the development of its

disorders, both intrauterine and postnatal. The main complaints are: decrease or vice versa increase in the amount of lost blood, changes in cycle duration, lack of menstruation. When considering major complaints, the teacherdraws attention to a variety of etiological causes.

Involving students to work on the phantom helps to study special gynecological research (examination of the external genitals, speculum examination, vaginal, bimanual, rectal examination), while determining the location, size, shape, consistency, mobility of the cervix, body and appendages of the uterus, it is necessary to emphasize the importance of these concepts to determine abnormalities and various gynecological diseases.

Starting to study special methods of research, it is necessary to indicate their importance in diagnosis. Additional methods include: smear testing for bacterioscopic and cytomorphological examination, functional diagnostics tests, determination of blood hormone levels, ultrasound diagnosis, uterine probes, cervical and endometrial biopsy, hystero- and laparoscopy, skull X-ray, and MRI.

The clinical exampleteacherdemonstrates the use of special examination methods that allow in each case to specify and determine the etiology, the level of damage and the form of menstrual disorders.

When studying the principles of treatment of disorders of the menstrual cycle, it is necessary to mention medicines that affect the contractile capacity of the myometrium, which increase erythropoiesis and increase blood clotting; as well as hormonal preparations of different structure, their synthetic analogues.

Particular attention is paid to the supervision of gynecological patients with menstrual disorders, complaints collection, medical history, special study, additional examination methods, with subsequent examination of patients.

II. Educational goals of the lesson

2.1 The student should know (α -II):

• features of anamnesis collection in gynecological patients (complaints, heredity, postponed general and gynecological diseases, working conditions, menstrual, sexual, reproductive function);

• general methods of investigation of gynecological patients (type of constitution, nature of distribution of adipose tissue, hair, sexual development formula, condition of internal organs);

• special examination of the pelvic organs (examination of the external genitals, examination of the cervix with the help of speculum, vaginal, bimanual, rectal, rectoabdominal examination);

• instrumental research methods (colpocytology, chromodiagnostics, biopsy, cytological diagnostics, cytological examination of aspirate from the uterine cavity,

fractional diagnostic scraping of the mucous membrane from the uterine cavity, hysteresectoscopy, puncture, puncture, puncture;

• X-ray examination of the pelvic organs (hysterography, intrauterine phlebography, hysterosalpingography, lymphography, radiography of the skull and the Turkish saddle);

• ultrasound diagnostics in gynecological practice;

• endoscopic examination methods (hysteroscopy, laparoscopy);

• gynecological documentation;

• gynecological terminology;

• terms that characterize menstrual disorders, including the definition of abnormal uterine bleeding (AMC), the definition of amenorrhea;

• etiologyof abnormal uterine bleeding and amenorrhea;

• pathogenesis of abnormal uterine bleeding and amenorrhea;

• classification of abnormal uterine bleeding and amenorrhea;

• basic methods of diagnosis of abnormal uterine bleeding and amenorrhea;

• goals and methods of treatment of abnormal uterine bleeding and amenorrhea;

• ways of primary prevention of menstrual disorders;

• basic medicines for the treatment of menstrual disorders.

2.2 The student must be able to (α -III)

To master the skills:

• collection of general and special gynecological anamnesis;

• carrying out examination of the patient, providing an assessment of the physique, determining the formula of sexual development, body mass index, conducting an assessment of hair growth;

• conducting a special gynecological examination;

• taking smears on the degree of purity of the vagina, colpocytological and oncocytological examination;

• evaluation of ultrasound data; evaluate radiographs (CT results) of the uterus and fallopian tubes.

To master the technique of conducting:

• special (external and internal) gynecological examination;

• taking smears from the genital tract for bacterioscopic, colpocytological and oncocytological examination.

To master the skills:

• drawing up a sound plan for managing gynecological patients.

• master basic diagnostic tests that will help to find out the nature of menstrual dysfunction (basal thermograms, "pupil phenomenon", degree of estrogenic

saturation on the colpocytological picture, symptom of crystallization of cervical mucus).

- Learn how to perform differential diagnosis and make a clinical diagnosis.
- master the basic types of treatment of patients with menstrual dysfunction.
- correctly present the data obtained in the medical history or outpatient card;

• evaluate the results of clinical and hormonal examination for menstrual disorders. Demonstrate:

- on the phantom the methodology of special gynecological examination;
- on the phantom, a technique for taking material for bacterioscopic and cytomorphological examination from the vagina and cervix.

III. PERSONAL DEVELOPMENT GOALS

(EDUCATIONAL PURPOSE)

To educate students about the importance of knowledge of anatomy, histology, physiology of the female reproductive system, the role of the CNS in its regulation, menstrual cycle, biosynthesis and metabolism of steroid hormones and interest them in the detailed material studied. Deepen understanding of deontology and medical ethics, develop a sense of professional responsibility for one's own actions and the fate of the patient. Master the ability to make psychological contact with a patient. In order to strengthen self-awareness, to focus on the contribution of domestic and foreign scientists to the study of modern methods of diagnosis and treatment used in gynecological practice.

Discipline / topics	Be able	
I.	Previous disciplines (provi	iding):
History of medicine	- contribution of domesticand foreign scientists to the issue of diagnosis and treatment of female genitalorgans	
Human anatomy and topographic anatomy	- structure of external and internal genitalorgans	
Normal and pathological physiology	 the basics of hormonal regulation of the female body highlights of the etiopathogenesis of amenorrhea and disorders of menstrual function; 	- to interpret information about the main indicators of the hormonal profile of the female body
II. The following disciplin	nes (which ensure the acqu	isition of knowledge):
Clinical pharmacology	- pharmacokinetics of hormonal agents used in the treatment of amenorrhea and abnormal uterine bleeding	C I
Surgery III. Intra-curricular integ	- Possible complications arising from surgery for women with abnormal uterine bleeding	

IV. INTERDISCIPLINARY INTEGRATION

$\mathbf{D}^{*}\mathbf{C}$	1	1
Differential diagnosis of	- classification of	- by means of the given
various disorders of the	abnormal uterine bleeding	classification to specify
function of the female	- classification of	criteria of differential
reproductive system	amenorrhea	diagnostics of various
		disturbances of function of a
		female reproductive system
Principles of examination	- algorithm for	- to demonstrate the
of women with disorders	examination of women	methodology of external and
of the female reproductive	with disorders of the	internal gynecological
system	female reproductive	examination
	system	
Ultrasound in the	- the main criteria for	- to demonstrate the
diagnosis of abnormal	ultrasound diagnostics	possibilities of ultrasound
uterine bleeding		examination in the office of
		functional diagnostics
Hysteroscopy as a method	-main indications for	- to demonstrate the main
of diagnosis and treatment	hysteroscopic	steps in the hysteroscopic
of various disorders of the	intervention	examination
female reproductive		
system		

V. TABLE OF CONTENTS OF LESSON: STRUCTURAL-LOGICAL SCHEME OF LESSON Diagnostic algorithm for examination of a patient with AUB





Management of heavy menstrual bleeding



Classification of causes of abhormal uterine bleeding (PALM COEIN)				
Structural	Non-structural			
PALM	COEIN			
P - polyps	C - coagulopathy			
A - adenomyosis	O - ovulation disorders			
L - leiomyoma	E - endometrial pathology			
M - malignant tumors, hyperplasia	I - iatrogenic			
	N - unclassified			

Classification of causes of abnormal uterine bleeding (PALM \ COEIN)

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE EMPLOYMENT:

					-
Nº p / n	The main stages of the lesson, their functions and content	Levels of learning	Methods of control and training	Methodological support materials	Time min.
		I. P	reparatory stage		
1.				Magazine Methodical developments Questions for individual oral questioning; Level II test tasks; typical level II tasks themed tables, posters, models, slides.	
3.	Organization of classes Setting learning goals and motivation Control of the initial level of knowledge, skills, abilities: 1. Causes that contribute to the	IIα	Individual oral survey. Test control Level II. Solution of typical level II problems.		

	violation of the				l
	function of the				
	reproductive system.				
	2. Classification of				
	abnormal uterine				
	bleeding and				
	amenorrhea.				
	3. Modern possibilities				
	of diagnostics of				
	disorders of function of				
	reproductive system.				
	4. Tactics of managing				
	patients with abnormal				
	uterine bleeding and				
	various forms of				
	amenorrhea.				
	5. Indications and types				
	of surgical treatment of				
	abnormal uterine				
	bleeding and				
	amenorrhea.				_
			The main stage		_
4.		III α	Practical training		
	professional skills and				
	competences:	III α		Algorithms for the	
	1. Working in the			formation of practical	
	gynecological			skills.	
	department.			Gynecological	
	2. Master the methods			instruments,	
	of anamnesis, external			ultrasound and	
	and internal			colposcope for	
	gynecological		Professional	examination of	
	examination.		training in solving	patients. Phantoms.	
	3. Supervise patients	III α	atypical clinical	Models.	1
	with abnormal uterine		situations	Algorithms for the	
	bleeding and other			formation of	

reproductive system.

of

the

disorders

skills

competences.

professional

and

	4. To evaluate and interpret the results of ultrasound and pathohistological		Patients (gynecologic patients). Illnesses. Situational atypical	
	 pathohistological examination. 5. Differential diagnosis of different types of abnormal uterine bleeding or different types of amenorrhea. 6. Make a diagnosis according to clinical and instrumental examinations. Identify and justify the management of patients with abnormal uterine bleeding and other disorders of the 		level III tasks.	
	reproductive system.			
		III. The final stage	. I	
5.	Level control and correction professional skills.	Individual control practical skills and theirs results. Analysis and evaluation results clinical work. Testing control III equal. Solution atypical tasks	Gynecological tools. Results clinical examination. Test tasks Level III. Atypical tasks III equal.	
6.	Summary of the lesson.	Level III.		

7.	Homework.		Indicative map for	
			independent work	
			with literature	

VII. MATERIALS OF METHODICAL ENSURING:

1.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

- 1. Define abnormal uterine bleeding?
- 2. What are the most significant risk factors for abnormal uterine bleeding?
- 3. What is the clinical classification of abnormal uterine bleeding?

4. Classification of abnormal uterine bleeding according to the system of determining the cause of occurrence (PALM - COEIN).

- 5. Modern methods of diagnosis of abnormal uterine bleeding.
- 6. Modern approaches to the treatment of abnormal uterine bleeding.
- 7. Define amenorrhea?
- 8. Causes of different types of amenorrhea
- 9. What is the classification of amenorrhea?
- 10. Modern methods of diagnostics of different types of amenorrhea.
- 11. Intra-syndromic differential diagnosis of different types of amenorrhea.
- 12. Modern approaches to the treatment of different types of amenorrhea.

Test Control Materials (IIa)

A. Multiple Choice Test:

Choose the mandatory gynecological examination methods:

- 1. patient survey;
- 2. study of the function of neighboring bodies;
- 3. external gynecological examination;
- 4. bacterioscopic analysis of discharge from 3 points (vagina, cervical canal, urethra);
- 5. cytomorphological examination of the vagina and vaginal part of the cervix;
- 6. pathohistological examination of the mucous membrane of the uterine cavity;
- 7. special gynecological examination;
- 8. ultrasound examination of the pelvic organs;
- 9. Computed tomography of the pelvic organs;
- 10. Kolpochevoscopic examination.

B. Test for drawing parallels, establishing logical connections between data groups: What are the main functions of the female body?

1. secretory

2. menstrual

3. Sex

4. reproductive

B. Addition Test:

1. Specify according to the classification of causes of abnormal uterine bleeding (PALM \setminus COEIN)

A. Structural:
1
2
3
4
B. Non-structural:
1
2
3
4
5.

1. List the medicines that can be used to treat acute abnormal uterine bleeding:

1._____

2._____

3._____

Typical Level II Tasks:

Task 1.

Patient R., 21 years old, went to the doctor complaining about the absence of menstruation within 7 months. Menstrual function: menstruation from 15 years, all the time are irregular in nature with a cycle duration of 32 to 56 days, scanty.

Question: What additional anamnestic data is needed to make a diagnosis? Make a plan for the examination of the patient to clarify the diagnosis.

Answer:

Task 2.

Patient 57 years old, went to the doctor complaining of pain in the lower abdomen and the appearance of moderate bleeding 8 years after the definitive cessation of menstruation.

Question: What special and additional examination methods should be performed in this patient to clarify the diagnosis?

Answer:

N⁰	Tasks	Sequence of implementation	Remarks, warnings
р/			about self-control
р			
1.	Patient survey	Follow these steps:	1.The patient should
	(history)	1. The main complaints	be in a comfortable
		2. Additional complaints	position (sitting)
		3. Delayed somatic diseases	When horizontal
		and surgical interventions	1. the position of the
		4. Menstrual, sexual and	patient with large
		reproductive function, nature of	tumors of the
		contraception	pelvic organs is
		5. Gynecological diseases	possible
		and genital surgery	2. the occurrence of
		6. Family history	the syndrome
		7. History of the disease	3. aorto-forging
			4. compression.
		Follow these steps:	5.
		Option of a physique of a	6. Emptied bladder
		woman	and rectum.
		The nature of the hair and the	
		condition of the skin	
		Breast examination	
2.	Overview	Belly examination	
		Palpation of the abdomen	
		Percussion and auscultation of	
		the abdomen	
		1) Follow these steps:	
		2) 1) Give the patient a	
		horizontal position	
		3) 2) Review of external	
		genitalia	
	Gynecological	4) 3) Research using	
3.	Review	gynecological speculum	
		5) Bimanual vaginal	
		examination (abdominal-	
		vaginal, abdominal-	

7.2 Materials of methodological support for the main stage of the lesson

<u>№</u> р/ р	Tasks	Sequence of implementation				emarks, wa about self-co	0
-		re	ectal)				
	7.3 Mate	rials of c	ontrol of the fir	nal stage of	the	class	
			Classification t	est			
	Specify the level	of impre	ssion in variou	s neuroend	ocrir	ne syndrome	5
\square			Genetic	Hypotha	ala	Ovarian	Uterus
	Impressio	n level	pathology	mo-			
				pituitar	•y		
Neur	roendocrine						
synd	rome						
Po	olycystic ovary synd	rome					
Po	ostpartum hypopituit	arism					
	(Sheehan syndrome	e)					
It	tsenko-Cushing's dis	ease					
Sher	reshevsky-Turner syn	ndrome					
R	okitan-Kustner synd	rome					
C	hiari-Frommel syndi	rome					
Ba	binsky-Frehlich synd	drome					
(a	dipozogenital dystro	ophy)					
	Persistent galactorrhea-						
	amenorrhea syndron	ne					

Atypical Level III Task:

Problem.

Patient N., 28 years old, was admitted to the gynecological ward complaining of the absence of menstruation for 6 months, as well as monthly significant abdominal pain at about the same numbers. History of the disease: Considers himself ill after a medical abortion, which was performed in a hospital at 8 weeks gestation. The operation was complicated by a hematometer, repeated scraping of the mucous membrane of the uterine cavity. Menstruation of 13 years, established immediately, after 4 weeks for 3-4 days, moderate, painless. History of 2 normal births, 4 medaborts. In gynecological examination: the external genitals are formed correctly, the cervical mucosa is clean, pink in color, the outer owl is slit-shaped. Bimanual: The uterus is slightly enlarged, in the correct position, dense consistency, mobile, painless. The appendages are not palpable. Hysteroscopy was performed: synechiae were detected in the cervical canal and in the uterine cavity, aspiration of the contents of the uterine cavity was performed. The result of cytological examination of aspirate - endometrial cells in the phase of late proliferation. Tactics of patient management. Answer:

7.4 Materials of methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational literature)

№ p/p	Training tasks	Instructions to the task
	Explore:	Know the risk factors for
1.	the most significant risk factors for abnormal	abnormal uterine bleeding
	uterine bleeding	
	classification of abnormal uterine bleeding	
2.	modern methods of diagnostics of abnormal	To classify abnormal
	uterine bleeding	uterine bleeding
3.	current approaches to the treatment of	To name modern methods
	abnormal uterine bleeding	of diagnostics of abnormal
		uterine bleeding
4.	causes of different types of amenorrhea	List modern approaches to
		the treatment of abnormal
		uterine bleeding
5.	classification of amenorrhea	Know the causes of
		different types of
		amenorrhea
6.	modern methods of diagnostics of different	Make a classification of
	types of amenorrhea	amenorrhea
7.	modern approaches to the treatment of	To name modern methods
	different types of amenorrhea.	of diagnostics of different
		types of amenorrhea
8.		Listed are modern
		approaches to the
		treatment of different types
		of amenorrhea.

VIII. RECOMMENDED BOOKS

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Obstetrics and Gynecology: Workshop / VK Likhachev [et al.]; Ministry of Health of Ukraine, Higher Educational Institution of Ukraine "Ukrainian Medical Dental Acad." - Poltava: Divosvit, 2014. - 200 p.

3. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K.: VSV Medicine, 2012. - 352 p.

4. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Vol. 3: Non-surgical gynecology. - K.: VSV "Medicine", 2014. - 928 p.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Tatarchuk TF, Solsky YP Endocrine gynecology (clinical essays). - K .: Testament, 2003. - 304 p.

2. DeCherney A.H. Obstetrics and gynecology: diagnosis and treatment: a textbook for students of medical universities: in two volumes / A. H. DeCherney, L. Nathan; ed. AN Strizhakov; trans. with English. [M. A. Mayevsky, RV Parmenov]. - Moscow: MEDPress-Inform, 2008-2009.

3. Dubile P. Atlas on ultrasound diagnostics in obstetrics and gynecology / PM Dubile, KB Benson; trans. with English. ; under common. ed. V. E. Gazhonova. - 3rd ed. - M.: Medpress-inform, 2011. - 328 p.

4. Hart D. M.K. Gynecology: an illustrated clinical guide / D.M.K. Hart, D. Norman; trans. with English. [AND. Sokolov, etc.]; under common. ed. VN Prilepskoy. - Moscow: Binom, 2009. - 463 sec.

5. Outpatient care in gynecology / ed. V.A. Beniuk // Gynecologist doctor's guide. - 2nd ed., Suppl. - K .: Publishing House "Health of Ukraine", 2010. - 462 p. - (The series "Library" Health of Ukraine ").

6. Algorithms in Obstetrics and Gynecology / Ed. V.A. Benyuk // Doctor's Guide. - K .: Doctor-Media LLC, 2009. - 428 p. (Library series "Health of Ukraine").

7. A Guide to Practical Skills in Gynecology, Obstetrics and Neonatology / Ed. prof. AND I. Senchuk. - K .: Hydromax, 2006. - 368 p.

8. Order of the Ministry of Health of Ukraine No. 676 dated 31.12.2004 "On approval of clinicalobstetric and gynecological protocols.Benign tumors of female genital organs. Endometriosis

BENIGN TUMORS OF FEMALE GENITALS. ENDOMETRIOSIS

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE TOPIC (UPDATE):

For the perfect development of this topic should clarify the issues of the structure of the uterus and ovaries, pay attention to their topography, blood supply, innervation. The consolidation of the obtained knowledge is carried out on the model.

The teacherpays special attention to the collection of gynecological anamnesis, the study of menstrual, sexual, childbearing functions, risk factors for uterine fibroids, benign ovarian tumors, endometriosis.

The main complaints that can manifest in the presence of benign tumors of the female genitalorgans and genital endometriosis: the violation of the menstrual cycle (profuse metrorrhagia for uterine fibroids and characteristic menorrhagia for endometriosis), pain (progressive subcutaneous myelomas) in the premenstrual period and during menstruation with internal genital endometriosis (adenomyosis), impaired function of adjacent organs, impaired sexual function, infertility. and the main complaints, the teacher draws attention to their diversity, depending on the localization of the pathological process (side localization cysts (cysts) ovarian localization of myoma nodes, endometrioid heterotopias).

Involving students to work on the phantom to study a special gynecological study (examination of the external genitalia, examination in gynecological speculum, vaginal, bimanual, rectal examination), while determining the location, size, shape, consistency, mobility of the uterine body and the formation of appendages of the uterus, the value of these concepts to determine possible tumorigenesis and diagnosis. When studying the special methods, pay attention to the special importance of this knowledge in the activity of the doctor in making the diagnosis. Additional methods include the determination of tumor markers, colpocervicoscopy, cytological examination of aspiration fluid, ultrasound diagnosis, CT, MRI, uterine sensing, hystero- and laparoscopy.

The teacher shows in clinical examples the use of special methods of examination, which in each case to determine the presence of neoplasms in the field of uterine appendages, to clarify and determine the localization of myomatous nodes and foci of endometriosis.

When considering the issues of conservative treatment of uterine fibroids and endometriosis, it is necessary to mention medicines that affect the contractile capacity of the myometrium, which increase erythropoies and increase blood clotting; as well as hormonal preparations of different structure, their synthetic substitutes.

Particular attention is paid to the curation of gynecological patients with ovarian tumors, uterine leiomyoma and endometriosis, complaint collection, medical history,

special examination, additional examination methods, with subsequent analysis of the patients being curated.

II. LEARNING OBJECTIVES:

1.1 The student should know (α -II):

• anatomical structure of external and internal genitals

• etiology, features of pathogenesis of uterine leiomyoma;

• modern classification of uterine leiomyoma with indication of types of myomatous nodes (according to ultrasound, Doppler examination);

• main symptoms and clinical picture at different localization of myomatous nodes;

• modern methods of diagnostics of uterine leiomyoma (basic, additional);

• basic principles and indications for drug therapy of uterine leiomyoma;

• indications and current possibilities of surgical and minimally invasive treatment of uterine leiomyoma (conservative myoectomy, uterine artery embolization).

• modern classification of benign ovarian tumors (according to the pathomorphological study);

• features of the pathogenesis of the development of various types of benign ovarian tumors;

• the main symptoms and clinical picture of various benign ovarian tumors;

• modern methods of diagnostics of uterine leiomyoma; principles of differential diagnosis of benign ovarian tumors with malignant ovarian tumors and tumors of other localization;

• basic principles of management of patients with functional (physiological) ovarian cysts;

• indications and current possibilities of surgical treatment of benign ovarian tumors;

• current approaches to the issues of endometriosis etiopathogenesis;

• modern classification of endometriosis;

• main symptoms and clinical picture of endometrioid heterotopias of different localization;

• modern methods of diagnosis of genital endometriosis (screening, diagnostic laparo- and hysteroscopy, ultrasound, MRI);

• basic principles and indications for drug therapy and surgical treatment of genital endometriosis;

• The main hormonal drugs used to treat genital endometriosis in modern gynecology.

1.2 The student must be able to (α -III):

To master the skills:

• collection of general and special medical history;

• general examination of the patient;

- conducting a special gynecological examination;
- taking smears from the urethra, cervical canal, vagina, and rectum;
- bimanual (abdominal-vaginal examination);

• Based on the data of the special gynecological examination of the patient and the results of the additional examination, make the right diagnosis and choose the tactics of treatment.

III. PURPOSE OF PERSONAL DEVELOPMENT (EDUCATIONAL OBJECTIVE): To educate students on the importance of benign plump female genital mutilation and endometriosis. Pay particular attention to the risk of malignancy of tumors of the genital organs in violation of the principles of timeliness of their diagnosis and treatment; there is a significant decrease in women's social activity in the clinical manifestation of genital endometriosis, which has a sufficiently high percentage of population prevalence. Consider also significant disturbances of menstrual, sexual and reproductive function of a female organism, which develop on the background of manifestations of benign tumors of female genital organs and genital endometriosis. To deepen the students' understanding of the importance of medical ethics and deontology at

communication with patients. To continue developing students' sense of professional responsibility for their own actions and the fate of the patient. To master the ability to deepen psychological contact with the gynecological patient. In order to strengthen self-awareness, to pay attention to the contribution of domestic and foreign scientists to the study of the problem of benign tumors of the female genital organs and genital endometriosis.

Discipline	To Know	To Be Able					
I. P	I. Previous disciplines (providing)						
History of medicine	- contribution of						
	domesticand foreign						
	scientists to study the						
	problem of benign tumors						
	of female genitalorgans						
	and genital endometriosis						
Human anatomy and	- structure of external	- to interpret					
topographic anatomy	genitals;	information about the					
	- structure of internal	structure					
	genitals;	female genital organs, age					

IV. Interdisciplinary integration

		differences of the genital
		organs
II. The following discipline	es (providing):	
Surgery, urology	- possible complications	- to diagnose using clinical
	arising from impaired	and instrumental methods
	function of adjacent to the	of complication by related
	internal female	organs
	genitalorgans (intestine,	
	ureter, bladder) at the	
	spread of endometrioid	
	heterotopias or at large	
	sizes of benign tumors	
III. Intra-curricular integr	•	
Differential diagnosis of	- major complaints and	- specify the criteria for
benign tumors of female	clinical manifestations of	differential diagnosis of
genital organs with	benign tumors of the	benign tumors of the
malignant tumors	female genital organs in	female genital organs and
0	comparison with malignant	malignant tumors by
	tumors	means of the given
	- the main classifications	classifications
	of benign tumors of the	
	female genital organs;	
	endometriosis and	
	malignant tumors	
Principles of examination	8	
of women with benign	- algorithm for	- to demonstrate the
tumors of the female	examination of women	methodology of external
genital organs and genital	with benign tumors of	and internal gynecological
endometriosis	female genital organs and	examination
	genital endometriosis	
Ultrasound in the diagnosis		- to demonstrate the
of benign tumors of the	- the main criteria for	possibilities of ultrasound
female genital organs and	ultrasound diagnostics	examination in the office
genital endometriosis		of functional diagnostics
		0
Laparoscopy as a method		- to demonstrate the basic
of diagnosis and treatment		stages of laparoscopic
<u> </u>	1	

of patients with benign	-main indications for	examination on the model
tumors of the female	laparoscopic intervention	
genital organs and genital		
endometriosis		

V. TABLE OF CONTENTS OF LESSON: STRUCTURAL-LOGICAL SCHEME OF EMPLOYMENT Pathohistological classification of benign ovarian tumors

- 1. Physiological (functional cysts)
 - ✓ Follicular cyst
 - ✓ Yellow body cyst
- 2. Germinogenic benign ovarian tumors
 - ✓ Mature teratoma (dermoid cyst)
 - ✓ Unripe teratoma
- 3. Epithelial benign ovarian tumors
 - ✓ Serous cystadenoma
 - ✓ Mucinous cystadenoma
 - ✓ Endometrioid cystadenoma
 - ✓ Brenner tumor
 - ✓ Light cell tumor
- 4. Benign Tumor Tumors / Ovarian Stromal Tumors
 - ✓ Granular tumor
 - ✓ Tumor
 - ✓ Ovarian fibroma
 - ✓ Cep Sertoli / Leydig cell tumor

Uterine fibroid treatment algorithm







	VI. PLAN AND ORGANIZA				•
_	The main stages of the	fc g	Methods	methodical	n.
1/1	lesson, their	ls (nin	control	providing	mi
Nº p / p	Functions and Content	Levels of Learning	learning		time min
~		ΓΓ	materials		tiı
I. Pro	eparatory stage	I	I	I	
1.	Organization of classes			Methodical	15хв.
2.	Setting educational goals			development	
	and motivation				
					1год.
3.	Output level control	Πα	Individual	Questions for	15хв.
	knowledge, skills, ability:		oral questioning.	individual	
	1) contributing reasons		Test control	verbally	
	development of benign tumors		Level II.	poll.	
	of the female genital organs and		Solution	Level II test tasks.	
	genital endometriosis (basic		typical tasks	Typical level II	
	theories of development);		Level II	tasks	
	2) modern classification of			thematic	
	uterine leiomyoma, benign			tables, posters,	
	ovarian tumors and			models, slides.	
	endometriosis;				
	3) the main clinical symptoms				
	of uterine leiomyoma, benign				
	ovarian tumors and				
	endometriosis;				
	4) modern methods of				
	diagnostics of uterine				
	leiomyoma, benign ovarian				
	tumors and endometriosis;				
	5) basic principles of treatment				
	of uterine leiomyoma, benign				
	ovarian tumors and				
	endometriosis.				
	he main stage	1	I	.	
4.	Formation of professional			Algorithms for	1год.
	skills and competences:	***	Practical training	formation	40хв.
	1) work in women's	IIIα		practical	
	consultations, gynecological			skills.	
	department, operating unit;		Professional	Gynecological	
	2) master the techniques		training in	tools	
	collecting anamnesis,	IIIα	solution	for examination	
	external and		atypical	gynecological	
	internal		clinical	patient.	
	gynecological		situations	Phantoms.	

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE LESSON:

	research; 3) to supervise a gynecological patient with uterine leiomyoma, benign ovarian tumors and ingenious endometriosis; 4) evaluate and interpret survey results the patient; 5) hold a differential diagnosis in patients with uterine leiomyoma, benign ovarian tumors and genital endometriosis; 6) make the diagnosis according to received data; 7) identify and justify medical tactics.			Models. Algorithms for formation professional skills and skills. Patients. Illnesses. Situational atypical tasks Level III.	
5.	Level control and correction professional skills.	IIIα	Individual control practical	Gynecological tools. Results	30хв.
			skills and theirs results.	clinical examination.	
			Analysis and	examination.	
			evaluation	Level III test tasks.	
			results		
			clinical work.	Atypical level III	
			Level III test control.	tasks.	
	Summary of the lesson.		The solutions are		
6.	Homework.		atypical	Indicative map for	5хв.
7.			level III tasks.	self	15хв.
				work with	
				literature.	

VIII. MATERIALS OF METHODICAL PROVISION OF LESSON:

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. What is the anatomical and histological structure of the external and internal genital organs?

2. Give a definition of uterine body leiomyoma.

3. What are the main current approaches to the etiopathogenesis of uterine leiomyoma?

4. Modern classification of uterine leiomyoma with indication of types of myomatous nodes according to ultrasound and Doppler measurements.

5. What are the current possibilities for the diagnosis of uterine leiomyoma?

6. What should be the medical tactics for diagnosing uterine leiomyoma depending on the location, size and clinical symptoms?

7. Give a definition of cysts and ovarian cysts.

8. What are the main causes contributing to the development of different types of benign ovarian tumors?

9. Modern pathohistological classification of benign ovarian tumors.

10. What are the current standards for the diagnosis of benign ovarian tumors?

11. Approaches to differential diagnosis of benign and malignant ovarian tumors.

12. What should be the medical tactics for diagnosing benign ovarian tumors?

13. Date of determination of endometriosis.

14. What are the main current theories of the emergence and spread of endometrioid heterotopias?

15. Modern classification of endometriosis.

16. The main clinical symptoms of endometriosis depending on the location of heterotopias.

17. What are the current diagnostic options for genital endometriosis?

18. What are the current principles for the treatment of genital endometriosis? Basic approaches to prescribing hormone therapy for endometriosis and indications for surgical treatment?

Test Control Materials (IIa):

A. Multiple choice test.

Indicate indications for surgical treatment of uterine leiomyoma

1. Age of the patient.

2. Symptomatic leiomyoma (with hemorrhagic and pain syndrome, presence of anemia, symptoms of compression of adjacent organs).

3. The magnitude of leiomyoma 13-14 weeks or more.

4. The presence of submucosal node.

- 5. Suspicion of power failure of the node.
- 6. A history of surgery data in the abdomen.

7. The presence of a subserous node of myoma on the leg (due to the possibility of a twist of the node).

8. The presence of concomitant pathology of applications.

9. Rapid growth (4-5 weeks a year or more) or resistance to therapy with Gn-W analogues).

10. Leiomyoma in conjunction with endometrial or ovarian tumors.

- 11. Extragenital pathology.
- 12. Infertility due to uterine leiomyoma.

B. Test for drawing parallels, establishing logical connections between data groups Establish a logical link between the following clinical manifestations of pain syndrome and the localization of endometriosis

1.	Uterus	Interstitial cystitis	
		Urinary tract infection	
		Urolithiasis	
2.	Intestine	Hematosalpinks	
		Ectopic pregnancy	
		Pelvic inflammatory disease	
3.	Bladder	Musculoskeletal pain	
		Neuropathic pain	
		Varicose veins of the pelvic veins	
		The soldering process	
4.	The ovaries	Mittelschmerz (ovulatory pain)	
		Ovarian cysts (rupture, pervert)	
		Ovarian stump (remnant) syndrome	
5.	Fallopian tubes	Primary dysmenorrhea	
		Adenomyosis	
6.	Common reasons	Irritable bowel syndrome	
		Inflammatory bowel disease	
		Chronic constipation	

B. Addition test

List the main groups of benign ovarian tumors according to the international pathological classification

- 1._____
- 2._____
- 3._____
- 4 ._____

D. Test to establish the correct sequence

Establish the correct sequence of the algorithm of organization of medical care for patients with endometriosis

1. In order to prevent recurrence of the use of progestogens at least 6 months (or GnRH or LN-Navy agonists)

- 2. Laparoscopy for diagnostic and therapeutic purposes
- 3. Suspected endometriosis

4. Additional methods of examination: ultrasound, MRI, consultation of related specialists

5. The ineffectiveness of therapy or surgery

6. Drug therapy: Gestagens, COCs, NSAIDs

7. The ineffectiveness of therapy

8. Additional examination: review of related specialists; viewing the diagnosis; treatment correction; multidisciplinary support

Typical Level II Tasks:

Problem I.

Patient B., 38, complains of heavy prolonged periods of 6-7 days, painful in the first two days. Considers himself a patient about 3 years, when began to prolong the duration of menstruation, menstruation became more profuse and painful. From the anamnesis it is found out that menstrual periods were established from the age of 14, at once, for 3-4 days, painless. Married with 22 years, 2 pregnancies, of which childbirth - one and one medabortion seven years ago. Vagina free, cervical cylindrical, clean. The uterus is enlarged to the size of 12 weeks of pregnancy, dense, hilly, mobility is limited. The appendages on both sides are not enlarged, their area is painless, the vaults are free. Allocation of blood, abundant. What is the preliminary diagnosis, examination plan, treatment?

Answer.

Task 2.

Patient V., 42 years old, was admitted for persistent pulling pain in the lower abdomen and in the lumbosacral region. Within 3 years notes that in addition to these
constant pains before menstruation and on the first day there are intense pain in the lower abdomen with irradiation in the rectum. Menstruation during this time became plentiful, prolonged and after termination often appear spotty bloody discharge of dark brown color within 2-3 days. In vaginal examination it was found that the cervix is cylindrical, cyanotic. The body of the uterus is enlarged in anterior-posterior size, generally to the size of 5-6 weeks of pregnancy, dense, uneven consistency, painful on palpation. The appendages on both sides are not enlarged, the back arch is painful on palpation. The mucous secretions. What is the preliminary diagnosis, examination plan, treatment?

Answer.

Problem 3.

During the examination, a woman, 28 years old, in the region of the left appendages of the uterus revealed the formation of a dense and elastic consistency, with a smooth surface, movable, painless, measuring 10x8 cm., pathological formations by internal genital organs were not diagnosed. Over the last year, he has noted menstrual irregularities (cycle length ranges from 16 to 40 days) and periodic aching pain in the left lower abdomen associated with menstruation. Ultrasound revealed: in the projection of the left appendages a single-chamber formation of 9x7 cm in size with a smooth capsule containing a fine heterogeneous mass is visualized. What is the preliminary diagnosis, examination plan, treatment?

Answer.

<u>№</u> p / p	Tasks	Sequence of implementation	Remarks, warnings
			about self-control
1.	Survey with	Follow this	1. When
	external	sequences:	horizontal
	gynecological	1) conduct a general examination of the	the position of the
	examination	patient;	pregnant woman
		2) to carry out examination and	there is a syndrome
		palpation of mammary glands;	aorto-forging
		3) to give the patient horizontal	compression.
		position;	
		4) continue breast palpation;	
		5) to carry out examination of a	
		stomach;	
		6) to carry out consecutive palpation of	
		all departments of a stomach, percussion	
		and auscultation.	
2			
2.		Follow this	2 Emerter
		sequences:	2. Empty
		1) provide the patient with an	bladder and
		appropriate one	rectum
		provisions for internal	
		gynecological study;2) wear sterile gloves;	
		3) conduct an examination of the	
		external genitalia;	
		4) to carry out examination of the vagina	
		and vaginal part of the cervix with the	
		help of gynecological speculum;	
		5) conduct a bimanual vaginal	
		examination, determining the state of the	
		vagina, cervix, uterus and appendages.	
		, agina, corvix, atorus and appendages.	

7.2 Materials of methodological support for the main stage of the lesson

7.3 Materials of control of the final stage of the class.

Classification test

Determine the classification of uterine leiomyoma according to the location of the leiomyomatous nodes and the most characteristic clinical symptoms for this localization

Types of localization of myomatous nodes	Subserous uterine leiomyoma	Intramural uterine leiomyoma	Submucosal uterine leiomyoma
Clinical			
symptoms of uterine leiomyoma			
Menorrhagia			
Metrology			
Dysmenorrhea			
Impaired function of adjacent organs			
(dysuria, dyshesia)			
Impairment of reproductive function			
(infertility, miscarriage)			
Pathological discharge from the			
genital tract			

Atypical level III task

Task 1.

Patient B., 28, complains of intense pain during menstruation, dyspareunia, and dyshiosis. Considers himself sick for about 3 years, when a year after the physiological delivery, the following complaints gradually appeared, the number of days of menstruation increased, menstruation became profuse and painful. From the anamnesis it was found out that menstrual periods were established from the age of 14, at once, for 5-6 days, moderately painful, on the eve of menstruation there were slight dark brown discharge from the genital tract. Married to 22 years, 1 pregnancy, last menstruation 27 days ago. Vagina free, cervical cylindrical, clean. The body of the uterus is slightly enlarged in the anterior-posterior size, restricted by the movable. The appendages on both sides are not palpated, their area is painless. Palpation of the posterior vault palpates its contraction and tenderness, other vaulting is free, painless. The secretions are dark-blooded, minor.

1. What is the preliminary diagnosis, the differential diagnosis plan?

2. Which method of diagnosis is the most significant in this clinical case? Answer. Task 2.

Patient V., 36 years old, was admitted to the gynecological department with a complaint about the absence of pregnancy in her 2nd marriage for 4 years, interested in pregnancy. Three years ago, a nodal leiomyoma of the uterus was diagnosed with cervical localization of one of the myomatous nodes. Menstruation during this time became plentiful, prolonged, without disturbance of the menstrual cycle. In vaginal examination found that the cervix is cylindrical in shape, 3 cm long, in the area of the vaginal part of the cervix is densely elastic painless formation of 5 cm by 6 cm in size. painless on palpation. The appendages on both sides are not enlarged, the vaults are free, deep. The mucous secretions are moderate. The diagnosis of uterine leiomyoma was confirmed during vaginal ultrasound examination.

1. What is the tactic of maintaining this patient, taking into account the localization of the myomatous node and its reproductive plans?

Answer.

map for organizing students' independent work with educational literature)			
<u>№</u> p / p	Training tasks	Instructions to the task	
	Explore:	To understand the main	
1.	Current approaches to the etiopathogen	etiopathogenetic moments of	
	of uterine leiomyoma	origin and development of uterine	
		leiomyoma	
2.	Current classifications of uterine	Pay attention to the classification	
	leiomyoma by localization of	by type of vascularization of	
	myomatous nodes and their type (by	myomatous nodes	
	peculiarities of vascularization)		
3.	Modern methods of diagnostics of	To name standard methods of	
	uterine leiomyoma	diagnostics of uterine leiomyoma	
		according to the current national	
		clinical protocols	
4.	Current approaches to the treatment of	To pay attention to indications for	
	uterine leiomyoma	conservative and surgical	
		treatment of uterine leiomyoma;	
		to know modern, pathogenetically	
		grounded, minimally invasive	
		methods of treatment of uterine	
		leiomyoma	
5.	The main causes and factors	To know the main points of the	
	contributing to the development of	etiopathogenesis of the	
	benign ovarian tumors	development of major benign	
		ovarian tumors	
6.	Modern pathohistological classification	Know the classification of benign	
	of benign ovarian tumors.	ovarian tumors according to	
		MKH-10 and the most common	
		pathohistological classifications	
7.	Basic anamnestic, clinical and	Modern diagnostics of benign	
	additional methods of diagnosis of	ovarian tumors.	
	benign ovarian tumors.		
8.	Modern principles of treatment of	Features of treatment of benign	
	benign ovarian tumors.	ovarian tumors in women of	
		reproductive age.	
9.	A modern look at the etiopathogenesis	Know the basic theories of	
	of endometriosis	endometriosis development	
10.	Modern classifications of	Know the classification of	

7.4 Materials of methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational literature)

№ p / p	Training tasks	Instructions to the task
	endometriosis	endometriosis according to MKH-
		10 and the most common
		classifications
11.	Basic anamnestic, clinical and	Know the principles of the "gold
	additional methods for the diagnosis of	standard" of endometriosis
	endometriosis.	diagnosis
12.	Current approaches to the treatment of	Approaches to the treatment of
	endometriosis. Indications for the	deep infiltrative forms of
	appointment of hormonal, surgical and	endometriosis
	combination therapy.	

VIII. LITERATURE

a) Educational.

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K .: VSV Medicine, 2012. - 352 p.

3. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Volume 3: Non-surgical gynecology / qty. ed .; in a row. Acad. NAMS of Ukraine, prof. V.M. It is blocked. - K .: VSV "Medicine", 2014. - 928 p.

4. Obstetrics and Gynecology. Tatarchuk TF, et al. Kiev: Medicine. - 2013.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Munro, M.G. Abnormal uterine bleeding. Cambridge: Cambridge University Press (2010).

2. David McKay Hart, Jane Norman. Gynecology. Illustrated clinical guide. - M.: Binom. - 2009. - 463p.

3. Tatarchuk TF, Solsky YP Endocrine gynecology (clinical essays). - K .: Testament, 2003. - 304 p.

4. Obstetrics and gynecology: diagnosis and treatment. Tutorial. In 2 volumes. DeCherney A.H., Nathan L. 2009 Publisher: MEDpress-inform.

5. Atlas of ultrasound diagnostics in obstetrics and gynecology. Dubile P., Benson K.B. 2009 Publisher: MEDPress-inform.

6. Gynecology. Illustrated clinical guide. Hart JM, Norman J. 2009 Publisher: Binom.

7. Outpatient care in gynecology / ed. V.A. Beniuk // Gynecologist doctor's guide. - 2nd ed., Suppl. - K .: Publishing House "Health of Ukraine", 2010. - 462 p. - (The series "Library" Health of Ukraine ").

8. Algorithms in Obstetrics and Gynecology / Ed. V.A. Benyuk // Doctor's Guide. - K

.: Doctor-Media LLC, 2009. - 428 p. (Library series "Health of Ukraine").

9. A guide to practical skills in gynecology, obstetrics and

neonatology / Ed. prof. AND I. Senchuk. - K .: Hydromax, 2006. -

368s.

10. Ministry of Health of Ukraine Order No. 676 of December 31, 2004 "On approval of clinical protocols on obstetric and gynecological care."

11. Electronic document "Adapted clinical guidelines based on evidence of" Abnormal uterine bleeding ", 2016.

12. National consensus on the management of patients with abnormal uterine bleeding of the Association of Gynecologists and Endocrinologists of Ukraine. Reproductive endocrinology. 2015; 1 (21): 8-12.

13. Order of the Ministry of Health of Ukraine No. 319 dated 06.04.2016. «Unified clinical protocol of primary, secondary (specialized) and tertiary (highly specialized) medical care. Tactics of management of patients with genital endometriosis », 2016.

14. Order of the Ministry of Health of Ukraine No. 582 of December 15, 2003 "On approval of clinical protocols on obstetric and gynecological care."

15. Order of the Ministry of Health of Ukraine No. 624 dated November 3, 2008. on amendments to the order of the Ministry of Health of Ukraine No. 582 of December 15, 2003 "On approval of clinical protocols on obstetric and gynecological care", order of the Ministry of Health of Ukraine No. 676 of December 31, 2004. "On approval of clinical protocols on obstetric and gynecological care."

b) Methodical.

1. Kazakov VM, Vitenko IS, Talaenko OM, Kamenetsky MS, Pervak MB, Kotlubey OV Development of methodological guidelines for students of higher medical educational establishments in accordance with modern state standards and principles of the Bologna process (Methodical recommendations for teachers of higher medical educational establishments of IY accreditation level): Kyiv-Donetsk: CMKMOZ of Ukraine, 2005.-158 p.

2. Miller VE Methodical bases of preparation and carrying out of educational employment in medical universities (manual): - Kyiv, Khreschatyk, 2006. - 80 p.

BACKGROUND AND PRE-CANCER DISEASES OF FEMALE GENERAL BODIES. MALIGNANT NEOPLASMS OF THE GENITALS. TROPHOBLASTIC DISEASES

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE THEME (UPDATE):

The problem of background, precancerous and malignant diseases of the female genital organs is extremely important. The causes and mechanisms of the development of malignancies have not yet been fully determined, so diagnosis of the pathological process at the stage of precancerous diseases remains the main method of preventing cancer. Trophoblastic disease occupies a special place among the tumors of the female genital organs. Trophoblastic diseaseis a tumor that develops from the trophoblast and is therefore associated with pregnancy (occurs during pregnancy, postpartum and post-abortion periods, after ectopic pregnancy). Under the name "trophoblastic disease", such pathological conditions of the trophoblast are combined, such as hydatidiform mole and choriocarcinoma, which is one of the most malignant tumors.

For a logical combination of information obtained from the anatomy, histology of the female genital organs, as well as to facilitate the work on the development of primary gynecological skills, the issues of the structure of the external and internal genital organs should be further covered, their topography, blood supply, innervation should be paid attention. The repetition of the acquired knowledge of the anatomy of the female genital organs is carried out on a model. The teacher pays great attention to the collection of gynecological anamnesis, assessment of the state of menstrual, sexual and reproductive functions of the female body. Attention is drawn to the main complaints that are characteristic of precancerous diseases: pathological changes on the part of the external genital organs, pathological white, pain when combined with the inflammatory process; malignant processes are characterized by the presence of complaints of pain, blood flow of varying intensity (in trophoblastic disease). Using phantom work, repeat the procedure of special gynecological examination (examination of external genitals, examination in speculum, vaginal, bimanual, rectal examination). In the study of special methods, pay attention to the special importance of this knowledge in the activity of the doctor at diagnosis. Additional methods include flake smear examination, cytomorphological examination, colposcopy, target biopsy, ultrasound, histological examination (note to students that the verification of the diagnosis that indicates the malignancy of the process can be definitively established only based on the results of histological examination), determination of β -HCG level. The teacher shows by clinical examples the use of special methods of examination, which allow in each case to determine the presence of precancerous or malignant process of the vulva, vagina, ovaries, cervix or body of the uterus.

Particular attention is paid to the supervision of gynecological patients with precancerous diseases of the vulva, vagina, cervix or body of the uterus, possibly with trophoblastic disease, collection of complaints, anamnesis, special examination, additional methods of examination, with subsequent analysis of clinical cases.

II. LEARNING OBJECTIVES:

1.1 The student should know (α -II):

• anatomical structure of external and internal genitals

• etiology and pathogenesis of benign (background), precancerous and malignant diseases of the external genitalia and vagina;

• classification of benign (background), precancerous and malignant diseases of the external genitalia and vagina;

• methods of diagnosis and verification of the diagnosis of benign (background), precancerous and malignant diseases of the external genitalia and vagina;

• methods of treatment and prevention of benign (background), precancerous and malignant diseases of the external genitalia and vagina;

• basics of colposcopic and cytological pictures of cervical epithelium;

Cervical cancer risk groups

• the etiology and pathogenesis of the development of benign (background), precancerous and malignant diseases of the cervix;

• clinical and colpocervicoscopic classification of benign (background), precancerous and malignant diseases of the cervix;

• methods of treatment and prevention of benign (background), precancerous and malignant diseases of the cervix;

• etiopathogenesis of precancerous and malignant diseases of the uterine body (endometrium);

• pathohistological classification of endometrial hyperplasia;

• clinical symptoms and current methods of diagnosis of endometrial hyperplasia, endometrial cancer and leiomyosarcoma;

• current standards for the treatment of endometrial hyperplasia, endometrial cancer and leiomyosarcoma;

• etiopathogenesis of precancerous and malignant ovarian diseases;

• classification of precancerous and malignant ovarian diseases;

• modern methods of diagnosis of precancerous and malignant ovarian diseases;

• current standards for the treatment of precancerous and malignant ovarian diseases;

• definition, etiopathogenesis and classification of trophoblastic disease;

• histological characteristics of bladder insertion, invasive bladder insertion, choriocarcinoma;

• clinical picture, diagnosis, differential diagnosis of malignant forms of trophoblastic disease.

- modern methods of treatment of trophoblastic disease.
- 1.1 The student must be able to (α -III):

To master the skills:

- collection of general and special medical history;
- general examination of the patient;
- conducting a special gynecological examination;
- taking smears from the urethra, cervical canal, vagina, and rectum;
- coltservicoscopic examination;
- performing a target biopsy from the surface of the vaginal part of the cervix;
- performing an endometrial aspiration biopsy;
- bimanual (abdominal-vaginal examination);

• the method of hysteroresectoscopy, fractional scraping of the mucous membrane of the uterus;

• Based on the data of the special gynecological examination of the patient and the results of the additional examination, make the right diagnosis and choose the tactics of treatment.

III. PURPOSE OF PERSONAL DEVELOPMENT (EDUCATIONAL OBJECTIVE):

To educate students about the importance of the problem of timely differential diagnosis of benign, cancerous and malignant diseases of the female genital organs. Pay particular attention to the risks and consequences of violating the principles of timely diagnosis and treatment; first of all, the cancerous and malignant diseases of the female genital organs. Pay particular attention to the preventive examinations and early clinical symptoms of malignancies of the female genital organs. To deepen the students' understanding of the importance of medical ethics and deontology at

communication with patients with suspicion and verification of malignant diseases of female genital organs. To continue developing students' sense of professional responsibility for their own actions and the fate of the patient. To master the ability to deepen psychological contact with the gynecological patient. In order to strengthen self-awareness, pay attention to the contribution of domesticand foreign scientists to the study of benign, precancerous and malignant diseases of the female genital organs.

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	female genital organs		

IV. Interdisciplinary integration

		- to demonstrate the basic
Colpocervicoscopy as a		stages of
method of diagnosis and		colpocervicoscopic
treatment of cervical	-main indications for	examination on the model
pathology	colpocervicoscopic	
	examination	- to demonstrate the basic
		stages of laparoscopic and
		hysteroscopic examination
The importance of		on the model
laparoscopy and	-main indications for	
hysteroscopy in the	laparoscopic and	
diagnosis and treatment of	hysteroscopic examination	
background, precancerous		
and malignant neoplasms		
of female genital organs		

V. CONTENTS OF THE TOPIC:

STRUCTURAL-LOGICAL SCHEME OF EMPLOYMENT

Colposcopic classification of pathological processes of the cervix. (C)

(EV Kokhanevich, 1997)

I. Benign pathological processes.

- 1. Ectopy of the cylindrical epithelium:
 - a) disharmonious;
 - b) post-traumatic.
- 2. A benign transformation zone (a zone of benign metaplasia):
 - a) unfinished transformation zone;
 - b) complete transformation zone.
- 3. Inflammatory processes of the cervix:
 - a) exocervicitis;
 - b) endocervicitis.
- 4. Real erosion.
- 5. Benign polypoid formations.
- 6. Endometriosis of the cervix.
- II. Precancerous conditions of the cervix.
 - 1. Simply leukoplakia.
 - 2. Fields of dysplasia:
 - a) multilayered squamous epithelium;
 - b) metaplasmic prismatic epithelium.
 - 3. The papillary zone of dysplasia:

a) multilayered squamous epithelium;

- b) metaplasmic prismatic epithelium.
- 4. Pre-tumor transformation zone.
- 5. Warts.
- 6. Precancerous polyps.
- III. Preclinical cervical cancer.
 - 1. Proliferating leukoplakia.
 - 2. Fields of atypical epithelium.
 - 3. The papillary zone of atypical epithelium.
 - 4. Zone of atypical transformation.
 - 5. Area of atypical vascularization.
- IV. Clinically expressed cancer.
 - 1. Exophytic form.
 - 2. Endophytic form.
 - 3. Mixed form.

Classification of endometrial hyperplasia (WHO, 2004):

- simple non-atypical endometrial hyperplasia is characterized by an increase in both glandular and stromal elements, with a slight predominance of the former;

- The main feature of complex non-atypical endometrial hyperplasia is the presence of a close location of the glands of widespread or focal nature. The glands are snug against each other with the loss of stroma between them. Another important feature of this type of hyperplasia is the increased structural complexity of the glands with numerous lateral and internal projections of the epithelium into the lumen of the glands and stroma. The glands usually have a more pronounced multiplicity of the epithelium than in the case of simple hyperplasia.

- simple atypical glandular endometrial hyperplasia differs from simple and combined non-atypical hyperplasia with the presence of atypia of gland cells, which is manifested by the loss of polarity of location and unusual configuration of nuclei, which often take a round shape. The nuclei of cells in this type of hyperplasia are polymorphic, and in them large nuclei are often isolated. This type of atypical hyperplasia is rare;

- complex atypical endometrial hyperplasia is characterized by pronounced proliferation of the epithelial component, which is combined with tissue and cellular atypia without invasion of the basement membrane of glandular structures. The glands lose their regular positioning for the normal endometrium, they are extremely varied in shape and size. The epithelium lining the glands is composed of large cells with polymorphic, rounded or elongated nuclei with impaired polarity and multiple locations.

Indications for surgical treatment of patients with endometrial hyperplastic processes (B):

At reproductive age:

- complex atypical GE in the absence of the effect of conservative therapy after 3 months,

- simple atypical and complex atypical hyperplasia with ineffective treatment after 6 months.

In menopause:

- complex atypical hyperplasia - at diagnosis,

- simple atypical and complex atypical hyperplasia - in the absence of effect from conservative therapy after 3 months.

Clinic of all-hospital network	Advisory polyclinic
	specialized institution
3-10 days	Up to 8 days
1. physical examination	1. physical examination
2. Gynecological recto-vaginal	2. Gynecological rectovaginal examination
examination	3. colposcopy, cytological examination
3. general and biochemical analysis	1. Consultation of morphological
of blood, urine;	preparations with LZP
4. Colposcopy	2. Biopsy of the tumor with morphological
5. cytological examination	examination (in the absence of
6. biopsy	morphological confirmation of the
7. ultrasound examination	diagnosis)
8. separate diagnostic scraping of the	3. if necessary, fibrogastroduodenoscopy
uterine cavity and the mud of the	and colonoscopy
mud canal	4. Consultation of urologist, cystoscopy,
9. chest radiography	excretory urography
10. HIV examination, syphilis, viral	5. Computed tomography by impressions
hepatitis	consultation of a chemotherapist,
electrocardiography	radiologist, anesthesiologist and other
	specialists on readings

Standard examination of patients with cervical cancer

Schemes of standard treatment of patients with cervical cancer

Stage of the	SCOPE OF STANDARD TREATMENT
disease	
Stage 0 Tis, IA1	1. Surgical treatment
(infestation <3	a) conical excision of the cervix in young women after appropriate
mm) T1a1N0M0	etiopathogenetic treatment
	b) simple hysterectomy for cervical localization of the process or
	other adverse factors: uterine fibroids, tumors of the appendages
	Intra-cavity radiation therapy.
Stage IA2	– Surgical treatment: extirpation of the uterus with / without
(3-5 mm	appendages, depending on age and presence of concomitant
infestation)	pathology (uterine fibromyoma, appendix tumors).
T1a2N0M0	 Intra-cavity radiation therapy.
Stage IB1	I. Combination treatment: surgical treatment (radical Wertheim
(<4 cm)	hysterectomy) with / without appendix \rightarrow in the presence of
T1v1N0M0	negative prognosis factors (low-differentiated form, lympho-
	vascular invasion) - adjuvant remote radiotherapy for the pelvic
	region.
	II. Combined radiation therapy.
Stage IV2 - IIA	I. Combination treatment:
(III)	- preoperative intra-cavity radiation therapy
T1v2 -2a N0-1M0	- surgical treatment (2-3 weeks) radical hysterectomy according to
	Wertheim
	- postoperative remote radiotherapy for the pelvis.
	II. Combined radiation therapy.
Stage IIB	I. Combined radiation therapy: remote radiation therapy,
T2vN0-1M0	intracavitary radiation therapy.II. Комбіноване лікування: (при
	наявності uterine fibroids, tumor and inflammatory lesions of the
	appendix and the inability to carry out cavity radiation therapy):
	- preoperative chemoradiation treatment
	surgical treatment in 2-3 weeks (radical Wertheim hysterectomy)
Stage IIIA	I. Combined radiation therapy.
T3aN0M0	At indications - contact radiation therapy for mucous membrane
	of the middle and lower 1/3 of the vagina.
	In the presence of negative prognosis factors - adjuvant
	chemotherapy.

Stage III T3vN0M0	I. Combined radiation therapy. In the presence of negative prognosis factors - adjuvant chemotherapy.
Stage III	I. Combined radiation therapy.
T3a-NNM0	In the absence of contraindications - adjuvant chemotherapy.
Stage T4,	I. Palliative courses in the field of chemotherapy.
any T at M1	II. Palliative courses of radiation therapy and polychemotherapy
	in the absence of contraindications and expediency of their
	application.

Clinic of all-hospital network	Advisory polyclinic of a specialized institution
3-10 days	Up to 7 days
 History of illness and life physical examination Gynecological recto-vaginal examination General and biochemical analysis of blood, urine Colposcopy cytological examination ultrasound examination diagnostic separate scraping of the mucous membrane of the cervical canal and uterine cavity CA-125 tumor marker examination for human immunodeficiency virus, viral hepatitis, syphilis electrocardiography 	Up to 7 days 1. History of illness and life 2. physical examination 3. Gynecological recto-vaginal examination 4. Investigation of mammary glands, thyroid glands 5. fibrogastroduodenoscopy 6. colonoscopy 7. Ultrasound examination of abdominal organs 8. urologist's examination, cystoscopy 9. excretory urography 10. Computed tomography 11. CA-125 tumor marker and other tumor markers as indicated 12. consultation of morphological preparations with a drug (in patients operated on a drug)
12. chest radiography cytological examination of ascitic fluid	operated on a drug) 13. according to the testimony of cytological examination of ascitic fluid consultation of a chemotherapist, radiologist, anesthesiologist and other specialists on indications

Standard examination of ovarian cancer patients

Schemes of standard treatment of ovarian cancer patients

Stage of the	SCOPE OF STANDARD TREATMENT
disease	
Stages IA, B	Surgery: extirpation of the uterus with appendages, resection of
G1-G2, (except for	the great omentum and revision of the abdominal cavity, biopsy
the cell-cell	of lymph nodes, smear-prints from different departments of the
histotype):	abdominal cavity for the purpose of adequate staging.
	Conservative tactics (as exceptions): in young ovarian cancer
	patients with stage IA who wish to retain fertility in highly
	differentiated carcinomas (G1): unilateral adnexectomy,
	omentectomy \rightarrow careful follow-up \rightarrow after childbirth or end of
	childbirth.
Stages IA, G3, 1C,	Surgery: extirpation of the uterus with appendages and resection
IIA, B, C,	of the great omentum, combined surgery + adjuvant
all stages of light	chemotherapy
cell cancer	
Stages III-IV	Cytoreductive surgery (extirpation or extra-vaginal amputation of
	the uterus with appendages, omentectomy, removal, if possible,
	of all other tumor cells: in the abdominal cavity, retroperitoneal
	space, lymph nodes) \rightarrow 6 courses of chemotherapy.

Standard examination of patients with endometrial cancer

Clinic of all-hospital network	Advisory polyclinicspecialized institution
3-10 days	Up to 8 days
1. physical examination	1. physical examination
2. Gynecological recto-vaginal	2. Gynecological rectovaginal examination
examination	3. Consultation of morphological preparations
3. general and biochemical	with the drug
analysis of blood, urine;	4. Biopsy of the tumor with morphological
4. cytological examination	examination (in the absence of morphological
5. ultrasound examination	confirmation of the tumor)
6. separate diagnostic scraping of	5. Ultrasound of abdominal organs
the uterine cavity and the mud of	6. if necessary, fibrogastroduodenoscopy and
the mud canal	colonoscopy
7. Chest X-ray	7. urologist consultation, cystoscopy, excretory
8. HIV examination, syphilis, viral	urography
hepatitis	8. Computed tomography
9. electrocardiography	consultation of a chemotherapist, radiologist,
virus scan	anesthesiologist and other specialists on readings

Stage of the disease	STANDARD TREATMENT	
Stage T1aNoMo	1. Surgical treatment - pangisterectomy.	
	2. Intrauterine radiation therapy (method of choice)	
Stage T1vNoMo (superficial	1. Surgical treatment - pangisterectomy.	
invasion, tumor localization	2. Intrauterine radiation therapy (method of choice)	
in the upper part of the		
mucous uterus, G1		
Stage T1vNoMo (invasion to	Combination treatment:	
¹ ⁄ ₂ myometrium, tumor	Surgical treatment - Extended pangysterectomy	
localization in the lower part	\rightarrow	
of the mucous membrane of	- combined radiotherapy: postoperative remote	
the uterus, G2-3	radiotherapy for the pelvis	
Stage	Combination treatment:	
T1c-2aNoMo, G2-3	Surgical treatment - Extended pangysterectomy	
T2vNoMo - G1	\rightarrow	
	- combined radiotherapy: postoperative remote	
	radiotherapy for the pelvis	
Stage	- Combination treatment:	
T2bNo-N1Mo G3	- surgical treatment - advanced pangysterectomy \rightarrow	
	combined radiotherapy: - postoperative remote	
	radiotherapy for the pelvis.	
	- polychemotherapy	
Stage	- Combination treatment:	
T3aNo-N1Mo G1-3	- surgical treatment - advanced pangysterectomy +	
	omentectomy, removal of para-aortic lymph nodes (in	
	the presence of their metastatic lesions) \rightarrow	
	combined radiotherapy: postoperative remote	
	radiotherapy for the pelvis	
	- polychemotherapy	
Stage	- in the detection of metastatic lesions of the para-	
T3vNo-N1Mo G1-3,	aortic lymph nodes.	
	- Combination treatment:	
	Surgical treatment - extended pangysterectomy,	
	removal of para-aortic lymph nodes, in the presence of	
	their metastatic lesions \rightarrow	

	 - combined radiotherapy: postoperative remote radiotherapy for the pelvis - polychemotherapy
Stage	Surgical treatment and radiation therapy on an
T4a -4bNo-N1Mo-1	individual plan.
	 - Hormone therapy
	– Polychemotherapy

Nº p / n	The main stages of the lesson, their functions and content	Levels of assimilatio	Learning control methods	Methodological support materials	Time min.
I. Pr	eparatory stage				
1. 2.	Organization of classes Setting educational goals and motivation			Methodical development	15 min.
3.	Output level control knowledge, skills, ability: 1) etiopathogenesis of background, precancerous and malignant neoplasms of female genital organs; 2) modern classification of background, precancerous and malignant neoplasms of female genital organs; 3) main symptoms and clinical picture of background, precancerous and malignant neoplasms of female genital organs; 4) modern methods of diagnostics of background, precancerous and malignant neoplasms of female genital organs; 5) basic principles of differential diagnosis of background, precancerous and malignant neoplasms of female genital organs; 6) management tactics and basic approaches to treatment of background, precancerous and malignant neoplasms of female genital organs; 6) methods of prevention and rehabilitation of patients with background, precancerous and malignant neoplasms of	Πα	Individual oral survey. Level II test control. Solution of typical level II problems	Questions for individual verbally poll. Level II test tasks. Typical level II tasks themed tables, posters, models, slides.	1h 15 min.

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE EMPLOYMENT:

	female genital organs.				
II. T	he main stage	I	1	1	
4.	Formation of professional			Algorithms for	1h 40
	skills and competences:			formation	minutes
	1) work in women's	IIIα	Practical training	practical	
	consultations, gynecological			skills.	
	department, operating unit;			Gynecological	
	2) master the techniques		Professional	tools	
	collecting anamnesis,	IIIα	training in	for examination	
	external and		solution	gynecological	
	internal		atypical	patient.	
	gynecological		clinical	Phantoms.	
	research;		situations	Models.	
	3) to supervise a gynecological			Algorithms for	
	patient with background,			formation	
	precancerous and malignant			professional	
	neoplasms of female genital			skills and	
	organs;			skills. Patients.	
	4) evaluate and interpret			Illnesses.	
	survey results			Situational	
	the patient;			atypical tasks	
	5) hold a differential			Level III.	
	diagnostics in patients with				
	precancerous and malignant				
	neoplasms of female genital				
	organs;				
	6) make the diagnosis				
	according to				
	received data;				
	7) identify and justify				
	medical tactics.				
III. T	The final stage				
5.	Level control and correction	IIIα	Individual	Gynecological	30 min.
	professional skills.		control	tools.	
			practical	Results	
			skills and theirs	clinical	
			results.	examination.	
			Analysis and		
			evaluation	Level III test tasks.	
			results		
			clinical work.	Atypical level III	
			Level III test	tasks.	
			control.		5 min.
	Summary of the lesson.		The solutions are		15min.
6.	Homework.		atypical	Indicative map for	

7.		level III tasks.	self	
			work with	
			literature.	

VIII. MATERIALS OF METHODICAL PROVISION OF LESSON:

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. What is the anatomical and histological structure of the external and internal genital organs?

2. To give definition of background diseases of female genital organs.

3. What are the main current approaches to the etiopathogenesis of background diseases of the female genital organs.

4. Modern classification of background diseases of female genital organs.

5. What are the current possibilities of diagnosis of background diseases of female genital organs?

6. What should be the medical tactics for the diagnosis of background diseases of the female genital organs, depending on the location and clinical symptoms?

7. To determine the precancerous disease of female genital organs.

8. To name the main reasons contributing to the occurrence of precancerous diseases of female genital organs of different localization.

9. Modern pathohistological, cytomorphological and colpocervicoscopic classifications of precancerous diseases of female genital organs.

10. What are the current standards for the diagnosis of precancerous diseases of the female genital organs?

11. Approaches to differential diagnosis of background and precancerous diseases of female genital organs.

12. What should be the medical tactics for diagnosing precancerous diseases of female genital organs?

13. To give definition of malignant neoplasms of female genital organs and trophoblastic disease.

14. What are the main current theories of the emergence and spread of malignant neoplasms of the female genital organs and trophoblastic disease?

15. Modern classification of malignant neoplasms of female genital organs and trophoblastic disease.

16. Basic clinical symptoms of malignant neoplasms of female genital organs depending on localization.

17. The main clinical symptoms of trophoblastic disease.

18. What are the current possibilities for the diagnosis of malignant neoplasms of the female genital organs and trophoblastic disease?

19. What are the requirements of the national protocols for the management and treatment of malignancies of the female genital organs and trophoblastic disease?

Test Control Materials (IIa):

A. Multiple choice test.

List the most common clinical symptoms of cervical cancer

- 1. There are no clinical symptoms for the initial forms of cervical cancer.
- 2. Pregnancy.
- 3. Blood flow from the genital tract.
- 4. Pathological whites of the genital tract.
- 5. Dyspeptic manifestations
- 6. Postnuricular form of anuria.
- 7. Pain in the lower abdomen.
- 8. Symptoms of bladder and rectum disorders.

9. Swelling of the lower extremities, which develop with compression of the tumor of venous and lymphatic vessels, which go along the side wall of the pelvis.

10. Development of uremia on the background of chronic renal failure.

B. Test for drawing parallels, establishing logical connections between data groups Establish a logical link between the following types of Pap smear cytology and their descriptions according to each of these types.

1.	I type	1.	Single cells with changes in the ratio of nuclei to cytoplasm are visualized; cytological or histological examination of cervical biopsy specimen is required to verify the diagnosis
2.	II type	2.	Atypical cells are absent, normal cytological picture
3.	III type	3.	Individual cells with signs of malignancy are visualized, namely, enlarged nuclei, basophilic cytoplasm, and uneven distribution of chromatin.
4.	IV type	4.	Changes in cellular elements are due to the inflammatory process in the vagina and / or cervix
5.	V type	5.	Numerous atypical cells are visualized in the smear

Addition test

List the main clinical groups for the dispensary accounting of cancer patients

la	
Ib	
II	_
III	
IV	

D. Test to establish the correct sequence

Establish the correct sequence of treatment steps for patients with endometrial hyperplasia

I. Removal of altered endometrium with subsequent morphological examination and determination of further tactics depending on the type of endometrial pathology.

II. Dispensary observation for 5 years after effective hormone therapy and 6 months after surgical treatment (ultrasound of pelvic organs twice a year, see MOH order No. 503 of 28.12.2002).

III. Optimization of hormonal status in order to prevent the development of hyperostrogenemia.

IV. Hormone therapy for endometrial suppression.

Typical Level II Tasks:

Problem I.

Sick 40 years old, complained of constant contact with blood flow from the genital tract. Menstrual function is not impaired. History of 3 births, 2 artificial abortions. The first birth with the imposition of obstetric forceps and rupture of the cervix. After the second birth, erosion of the cervix was detected. Examination of the cervix in the speculum and bimanual examination revealed that the cervix is eroded, hypertrophied, deformed by old postpartum tears, the outer eye is gaping. The uterus and appendages without pathological changes, the parameters are free. Suggest an outline for a definitive clinical diagnosis?

Answer

Task II.

Patient V., 38 years old, consulted a woman for complaints of general weakness, shortness of breath, cough and dark bloodstream within 1 week. History of pregnancies - 3, abortions - 2. During the last artificial abortion for a period of 10 weeks a bubble burst was detected. After 6 months, a cough appeared. Objectively: the condition of the patient of moderate severity. Pulse 98 per minute, blood pressure 100/75 MM Hg The skin and mucous membranes are pale. In the lungs hard breathing is heard over their entire surface, sharply weakened in the lower divisions. The abdomen is soft, painless in all departments. Vaginal examination: external genitalia developed properly; vagina of a woman born; cervical cylindrical shape, outer eye closed; uterus enlarged to 7 weeks of gestation, soft consistency, mobile, painless. Applications are undefined, their area is painless. Allocation of blood, moderate. Chest X-ray: pulmonary fields changed multiple, rounded by small nodes up to 1 cm in diameter.

What is the most likely diagnosis? What will be the tactics of a female counseling doctor?

Answer.

<u>№</u> p / p	Tasks	Sequence of execution Remarks		
••••••			about self-control	
1.	Survey with	Follow this	1. When	
	external	sequences:	horizontal	
	gynecological	1) conduct a general examination of the	the position of the	
	examination	patient;	pregnant woman	
		2) to carry out examination and	there is a syndrome	
		palpation of mammary glands;	aorto-forging	
		3) to give the patient horizontal	compression.	
		position;	1	
		4) continue breast palpation;		
		5) to carry out examination of a		
		stomach;		
		6) to carry out consecutive palpation of		
		all departments of a stomach, percussion		
		and auscultation.		
	Special			
2.	gynecological	Follow this		
	examination	sequences:	2. Empty	
		1) provide the patient with an	bladder and	
		appropriate one	rectum	
		provisions for internal		
		gynecological study;		
		2) wear sterile gloves;		
		3) conduct an examination of the		
		external genitalia;		
		4) to carry out examination of the vagina		
		and vaginal part of the cervix with the		
		help of gynecological speculum;		
		5) to conduct a bimanual vaginal		
		examination, determining the state of the		
		vagina, cervix, uterine body and		
		appendages;		
		6) change the sterile gloves and perform		
		rectal examination.		

7.2 Materials of methodological support for the main stage of the lesson

7.3 Materials of control of the final stage of the class. Classification test Determine the therapy of choice of treatment for cervical cancer depending on the

The stage	IA1	IA2	IA2	IV2, IIV-IV
Choice therapy				
Radical hysterectomy and				
pelvic lymph node dissection				
Conization / radical				
trachelectomy				
Combination chemotherapy /				
radiotherapy with cisplatin				
Connection or simple				
hysterectomy \pm				
salpingo-oophorectomy and				
pelvic lymph node dissection				

stage

Atypical level III task

Task 1.

Patient L., 36 years old, was admitted to the gynecological ward with moderate blood discharge from the vagina. History: heredity is not burdensome; had three pregnancies; one of which ended with childbirth and two with artificial abortions. The last abortion was made 3 years ago (8 weeks) without any complications. Menstrual cycle without pathological changes. In the last 6 months. complains of periodic rare serous-yellow vaginal discharge with unpleasant odor and slight impurities of blood. She did not consulta doctor. Two hours ago, after heavy lifting, suddenly there were significant bleeding from the vagina. Objective examination: overall condition is satisfactory. Pulse 88 beats / min., AT - 110/70 mm Hg. Art., body temperature 36.4 ° C. Sick of the right physique, satisfactory nutrition. The skin and visible mucous membranes are pale. The abdomen is soft, painless. Chair and urination is normal. Examination by means of speculum: the cervix is hypertrophied, barrel-shaped, dark-purple in color, with a pronounced capillary network, fixed. From the cervical canal depart bloodstream. Vaginal research: External genitalia are developed properly. The cervix is very dense, barrel dilated, fixed. The body of the uterus is the usual size.Rectal examination: the maxillary part of the cervix is sharply hypertrophied, dense. In the parameter on both sides of the dense infiltrate reaching the walls of the pelvis.

1. Make a preliminary diagnosis.

2. What are the primary diagnostic methods for verifying the diagnosis?

3. Suggest treatments.

Answer.

Task 2.

Patient N., 65 years old, was admitted to the gynecological department with complaints of pain in her left thigh, especially at night. When defecation, blood is present in the feces. History of asymptomatic uterine leiomyoma, 12 months prior to the menopause period, was recorded at the place of residence; in the words, treatment of leiomyoma was not carried out; postmenopausal period without complaints. 3 months later, she went to the doctor with the above complaints. After examination by the oncologist, symptomatic treatment was prescribed. Data on volume, examination results, and clinical diagnosis are missing. Objective examination: satisfactory when inspected. AT - 180 / 110-160 / 100 mm Hg. Art. Body weight 88 kg, height 158 cm. Suffers from hypertension. Heart tones are muted. Vesicular breathing is elicited in the lungs. The abdomen is soft, painless on palpation. Examination with speculum: The cervix with speculum cannot be examined because of the narrowness of the vagina and tissue infiltration of the front and back walls. Rectal examination: vaginal and rectal walls infiltrated, dense. The body of the uterus is increased to 11 weeks of conditional pregnancy, dense, hilly. In the parameter on both sides infiltrates that reach the walls of the pelvis are palpated.

1. Make a diagnosis. Assign treatment.

2. In such a situation, is it necessary to confirm the diagnosis with histological examination data?

Answer.

7.4 Materials for methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational literature)

<u>№</u> p / p	Training tasks	Instructions to the task
	Explore:	To understand the main
1.	Current approaches to the	etiopathogenetic moments of
	etiopathogenesis of background and	origin and development of
	precancerous diseases of the female	background and precancerous
	genital organs	diseases of female genital organs
2.	Modern classifications of background and	To pay attention to the
	precancerous diseases of female genital	colposcopic classification of
	organs	background and precancerous
		diseases of female genital organs
3.	Modern methods of diagnosis of	To name standard methods of

	background and precancerous diseases of	diagnostics of background and
	female genital organs	precancerous diseases of female
		genital organs according to the
		current national clinical protocols
4.	Current approaches to the treatment of	To pay attention to indications for
	background and precancerous diseases of	conservative and surgical
	the female genital organs, depending on	treatment of background and
	the localization and clinical symptoms	precancerous diseases of female
		genital organs; to know modern,
		pathogenetically grounded,
		minimally invasive methods of
		treatment
5.	The basic modern theories of origin and	To know the basic modern
	distribution of malignant neoplasms of	theories of origin and distribution
	female genital organs	of malignant neoplasms of female
		genital organs
6.	Modern classification of malignant	Know the classification of
	neoplasms of female genital organs	malignant neoplasms of female
		genital organs according to MKH-
		10 and the most common
		pathohistological classifications
7.	Basic anamnestic, clinical and additional	Current possibilities of diagnosis
	methods of diagnosis of malignant	of malignant neoplasms of female
	neoplasms of female genital organs	genital organs
8.	Current requirements in accordance with	Features and approaches to
	national protocols for the management	treatment of malignant neoplasms
	and treatment of malignant neoplasms of	of female genital organs
	female genital organs	
9.	Basic modern theories of the	Know the basic modern theories
	etiopathogenesis of trophoblastic disease	of the theory of etiopathogenesis
		of trophoblastic disease
10.	Modern classification of trophoblastic	Know the classification of
	disease	trophoblastic disease according to
		MKH-10 and the most common
		pathohistological classifications
11.	Basic anamnestic, clinical and additional	Modern possibilities of
	methods of diagnostics of trophoblastic	diagnostics of trophoblastic
	disease	disease
12.	Current approaches to management and	Features and approaches to the

treatment of trophoblastic disease

VIII. LITERATURE

a) Educational.

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K .: VSV Medicine, 2012. - 352 p.

3. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Volume 3: Non-surgical gynecology / qty. ed .; in a row. Acad. NAMS of Ukraine, prof. V.M. It is blocked. - K .: VSV "Medicine", 2014. - 928 p.

4. Obstetrics and Gynecology. Tatarchuk TF, et al. Kiev: Medicine. - 2013.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Munro, M.G. Abnormal uterine bleeding. Cambridge: Cambridge University Press (2010).

2. David McKay Hart, Jane Norman. Gynecology. Illustrated clinical guide. - M.: Binom. - 2009. - 463p.

3. Atlas of ultrasound diagnostics in obstetrics and gynecology. Dubile P., Benson K.B. 2009 Publisher: MEDPress-inform.

4. Gynecology. Illustrated clinical guide. Hart JM, Norman J. 2009 Publisher: Binom.

5. A guide to practical skills in gynecology, obstetrics and

neonatology / Ed. prof. AND I. Senchuk. - K .: Hydromax, 2006. - 368s.

6. Order of the Ministry of Health of Ukraine No. 676 of December 31, 2004. "On approval of clinical protocols on obstetric and gynecological care."

7. Electronic document "Adapted clinical guidelines based on evidence of" Abnormal uterine bleeding ", 2016.

8. National consensus on the management of patients with abnormal uterine bleeding of the Association of Gynecologists and Endocrinologists of Ukraine. Reproductive endocrinology. 2015; 1 (21): 8-12.

9. Order of the Ministry of Health of Ukraine No. 554 of September 17, 2007 (as amended - Order of the Ministry of Health of Ukraine No. 645 of July 30, 2010, No. 247 of April 29, 2011) On approval of protocols for the provision of medical care in the specialty "Oncology" (vulvar cancer, endometrial cancer, cervical cancer, ovarian cancer, trophoblastic pregnancy).

10. Order of the Ministry of Health of Ukraine No. 645 of 30.07.2010 On amendments to the order of the Ministry of Health of Ukraine of 17.09.2007 No. 554 "On approval of protocols of rendering medical care in the specialty" Oncology "(breast cancer)

11. Ministry of Health of Ukraine Order No. 582 of December 15, 2003 "On approval of clinical protocols on obstetric and gynecological care."

12. Order of the Ministry of Health of Ukraine No. 236 of 02.04.2014 On approval and implementation of medical and technological documents on standardization of medical care in dysplasia and cervical cancer

13. Pavlyuchenko MI, Slinko OM Precancerous and malignant neoplasms in gynecology. Tutorial. (Approved at the meeting of the Central Methodical Council of ZSMU, Minutes No. 6 of May 20, 2015) .- Zaporizhzhya.-2015.-92 p.

b) Methodical.

1. Kazakov VM, Vitenko IS, Talaenko OM, Kamenetsky MS, Pervak MB, Kotlubey OV Development of methodological guidelines for students of higher medical educational establishments in accordance with modern state standards and principles of the Bologna process (Methodical recommendations for teachers of higher medical educational establishments of IY accreditation level): Kyiv-Donetsk: CMKMOZ of Ukraine, 2005.-158 p.

2. Miller VE Methodical bases of preparation and carrying out of educational employment in medical universities (manual): - Kyiv, Khreschatyk, 2006. - 80 p.

INFLAMMATORY DISEASES OF FEMALE GENITAL ORGANS

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE THEME (UPDATE):

For the logical combination of information on the anatomy of the female genital organs, pathological physiology, microbiology, as well as to facilitate the development of the topic should cover the issues of topography, blood supply, innervation of the external and internal genital organs, etiology, pathogenesis of inflammatory processes.

It should be emphasized (presentations, guidelines) that the pathways for the spread and spread of non-specific and specific infection may be different.

Much attention is paid to clarifying the risk factors for the inflammatory process in the gynecological anamnesis. The main complaints are: itching, burning in the external genital area, white, pain, fever, general weakness, malaise, impaired function of adjacent organs.

When collecting anamnesis, the main violations of menstrual, reproductive and sexual functions in inflammatory diseases of female genital organs are found out.

Involving students to work on the phantom, it is necessary to pay attention to possible deviations in special gynecological examination (hyperemia, swelling of external genitals, presence of abnormal vaginal discharge; accumulation of secretions in the posterior crypt or presence of abnormal secretions from the cervical canal when viewed in the gynaecological speculum; enlargement; uterus, violation of its position, mobility, tenderness, the presence of formations in the field of uterine appendages in bimanual study). It is necessary to emphasize the value of these deviations when determining the localization of the inflammatory process.

When studying special methods, pay attention to the special importance of this knowledge in the activity of the doctor at diagnosis. Additional methods include bacterioscopic examination of sexual excretions, ultrasound diagnosis, hystero- and laparoscopy. For the diagnosis of tuberculosis, methods such as blood sampling on BC, Mantoux, Koch test, chest X-ray are of particular importance. The teacher shows in clinical examples the use of special methods of examination, which in each case determine the etiology and localization of inflammatory diseases of the genital organs, a group of antibiotics that can be used for the treatment of various specific infections (gonorrhea, candidiasis, trichomoniasis and tuberculosis).

Starting to study the treatment of inflammatory diseases of the genital organs, it is necessary to mention medications that affect the various stages of the inflammatory process. To substantiate tactics of management of patients with inflammatory diseases of genitals: conservative and operative.

Be sure to discuss the main indications for surgical treatment of patients with pelvic inflammatory processes in an emergency:

- threat of rupture of the piosalpinx

- Pelvioperitonitis without positive dynamics from conservative therapy for 24 hours

- spilled peritonitis

As planned:

- Suspicion of ovarian formation with signs of inflammation

- Infertility on the background of chronic inflammatory process

- long-term chronic inflammatory process without positive dynamics from conservative therapy.

The possibility of prevention of inflammatory diseases of the genital organs of nonspecific and specific etiology is emphasized: culture of sexual life, intimate hygiene, contraception, timely detection of patients with tuberculosis.

Particular attention is paid to the curation of gynecological patients with inflammatory diseases of the genital organs, with subsequent examination of patients.

II. LEARNING OBJECTIVES:

1.1 The student should know (α -II):

• anatomical structure of external and internal genital organs

• etiology, features of pathogenesis of acute and chronic inflammatory diseases;

• epidemiology, ways of transmission of pathogens in the inflammatory process of female genital organs;

• modern classification of inflammatory diseases of female genital organs;

• main symptoms and clinical picture at different localization of inflammatory processes of female genital organs;

• modern methods of diagnostics of inflammatory processes of female genital organs;

• methods of prevention of non-specific and specific inflammatory diseases of female genital organs, ways of spreading the inflammatory process.

• basic principles of treatment of non-specific inflammatory diseases of female genital organs;

• treatment of major sexually transmitted infections (STIs) and tuberculosis.

1.2 The student must be able to (α -III):

To master the skills:

- collection of general and special medical history;
- general examination of the patient;
- conducting a special gynecological examination;
- taking smears from the urethra, cervical canal, vagina, and rectum;
- take material for bacteriological and virological studies;
- conduct a bimanual (abdominal-vaginal examination);
• on the basis of the general and special examination of the patient to correctly diagnose and choose treatment tactics.

III. PURPOSE OF PERSONAL DEVELOPMENT (EDUCATIONAL OBJECTIVE):

To educate students about the importance of the problem of inflammatory diseases of the female genital organs, which have a high percentage of population prevalence, tendency to chronic process and development of complications. Consider also the significant disorders of the menstrual and reproductive function of the female body, which develop as complications of the inflammatory process of internal female genital organs. To deepen the students' understanding of the importance of medical ethics and deontology at

communication with patients. To continue developing students' sense of professional responsibility for their own actions and the fate of the patient. To master the ability to deepen psychological contact with the gynecological patient. In order to strengthen self-awareness, pay attention to the contribution of domestic and foreign scientists to the study of inflammatory diseases of female genital organs.

IV	'. Interdisciplinary integrati	on			
Discipline	To Know	To Be Able			
I. Previous disciplines (providing):					
History of medicine	- contribution of domestic and foreign scientists to study the problem of inflammatory diseases of female genital organs				
Human anatomy and topographic anatomy	 structure of external genitals; structure of internal genitals; 	- to interpret information about the structure female genital organs, age differences of the genital organs			
II. The following discipline	es (providing):				
Surgery, urology	- possible complications arising from the spread of the inflammatory process	- diagnose complications on the part of adjacent authorities			
III. Intra-curricular integr	ration:				
Differential diagnosis of inflammatory diseases of the upper and lower parts of female genital organs Principles of examination	 classification of inflammatory diseases of female genital organs major complaints and clinical manifestations 	- by means of the given classification to specify criteria of differential diagnostics of inflammatory diseases of the upper and lower divisions of female genital organs			
of women with inflammatory diseases of female genital organs	- algorithm for examination of women with inflammatory diseases of female genital organs	- Demonstrate the methodology of external and internal gynecological examination			
Ultrasound in the diagnosis of inflammatory processes of the upper division of the female genital organs	- the main criteria of ultrasound diagnostics	- demonstrate the possibilities of ultrasound examination in the office of functional diagnostics			

IV. Interdisciplinary integration

Laparoscopy as a method		- to demonstrate the basic
of diagnosis and treatment		stages of laparoscopic
of inflammatory volumetric		examination on the model
neoplasms of the uterus	-main indications for	
	laparoscopic intervention	

V. CONTENTS OF THE TOPIC:STRUCTURAL-LOGICAL SCHEME OF LESSON

Complaints 1. Acute pelvic pain (two or one sided) 2. Body temperature 38 ° C or higher. 3. Disorders of the menstrual cycle (minor or moderate uterine bleeding). 4. Pathological (mucous-purulent) vaginal discharge 5. Dysuria. 6. Nausea and vomiting.



An algorithm for clinical examination of women with STIs



	VI. PLAN AND ORGANIZA The main stages of the		τ	Methodological	
u /	lesson, their functions and	Levels of assimilatio	methods	support	Time min
№ p / n	content	vels mil	methods	materials	le r
Ř	content	Lev ssi		materials	lin
TD					
	eparatory stage	1			
1.	Organization of classes			Methodical	15min.
2.	Setting educational goals			development	
	and motivation				11
2	Ordered land land and the	II.	To discident	Orașeți a ma fa m	1hour
3.	Output level control	IΙα	Individual	Questions for	15min.
	knowledge, skills, ability:		oral questioning.	individual	
	1) contributing reasons		Test control	verbally	
	development of inflammatory diseases of female genital		Level II. Solution	poll. Level II test tasks.	
	organs and etiopathogenesis of		typical tasks	Typical level II	
	specific and nonspecific		Level II	tasks	
	inflammatory diseases of			themed	
	female genitals;			tables, posters,	
	2) modern classification of			models, slides.	
	inflammatory diseases of			models, snaes.	
	female genital organs;				
	3) the main symptoms and				
	clinical picture of				
	inflammatory diseases of				
	female genital organs of				
	different localization;				
	4) modern methods of				
	diagnosis of inflammatory				
	diseases of female genitals;				
	5) basic principles of treatment				
	of non-specific inflammatory				
	diseases of female genital				
	organs;				
	6) methods for the prevention				
	and treatment of sexually				
	transmitted infections.				
II. T	he main stage			1	1
4.	Formation of professional			Algorithms for	1hour
	skills and competences:			formation	40min.
	1) work in women's	IIIα	Practical training	practical	
	consultations, gynecological			skills.	
	department, operating unit;			Gynecological	

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE LESSON:

	2) master the techniques		Professional	tools	
	collecting anamnesis,	IIIα	training in	for examination	
	external and		solution	gynecological	
	internal		atypical	patient.	
	gynecological		clinical	Phantoms.	
	research;		situations	Models.	
	3) to supervise a gynecological			Algorithms for	
	patient with inflammatory			formation	
	disease of the external or			professional	
	internal genital organs;			skills and	
	4) evaluate and interpret			skills. Patients.	
	survey results			Illnesses.	
	the patient;			Situational	
	5) hold a differential			atypical tasks	
	diagnostics in patients with			Level III.	
	specific and non-specific				
	infection;				
	6) make the diagnosis				
	according to				
	received data;				
	7) identify and justify				
	medical tactics.				
III. 7	The final stage				
5.	Level control and correction	IIIα	Individual	Gynecological	30min.
	professional skills.		control	tools.	
			practical	Results	
			skills and theirs	clinical	
			results.	examination.	
			Analysis and		
			evaluation	Level III test tasks.	
			results		
			clinical work.	Atypical level III	
			Level III test	tasks.	
			control.		
	Summary of the lesson.		The solutions are		
6.	Homework.		atypical	Indicative map for	5 min.
7.			level III tasks.	self	15min.
				work with	
				literature.	

VIII. MATERIALS OF METHODICAL PROVISION OF LESSON:

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. To determine the inflammatory process of the female genital organs.

2. What is the anatomical and histological structure of the external and internal genital organs?

3. What are the main causes contributing to the development of the inflammatory process of female genital organs?

3. The main causative agents and etiopathogenesis of the inflammatory process of female genital organs.

4. Classification of inflammatory diseases of female genital organs.

5. What are the features of the course of the disease in the specific and nonspecific inflammatory process of female genitals?

6. What are the main diagnostic features of the inflammatory process of the external and internal genitals?

7. What should be the medical tactics in diagnosing the inflammatory process of the external and internal genitals?

Test Control Materials (IIa):

A. Multiple choice test.

Specify risk factors for female genital inflammation

- 1. Age of the patient.
- 2. Anomalies of development of female genital organs.
- 3. Early onset of sexual life.
- 4. Having multiple sexual partners.
- 5. Intrauterine method of contraception (IUD).
- 6. A history of surgery data in the abdomen.

7. The presence of inflammatory processes of the pelvic organs (the patient or her partner).

8. Benign ovarian or uterine tumors.

- 9. Bacterial vaginosis.
- 10. Uncontrolled use of antibacterial drugs.
- 11. Extragenital pathology.

B. Test for drawing parallels, establishing logical connections between data groups Establish a logical connection between the following antibacterial drugs used in the treatment of inflammatory processes of the female genital organs and the most common infection in gynecological practice

1.	1.Azithromycin	Candida albicans
2.	2.Clarithromycin	Trichomonas vaginalis
3.	3.Doxycycline	Gardnarella vaginalis
4.	4.Triazole	Micoplasma genitalium
	(fluconazole)	
5.	5.Ofloxacin	Ureaplasma urealiticum
6.	6.Metronidazole	Neisseria gonorrhoea
7.	7.Ceftriaxone	Chlamydia trachomatis

B. Addition test

Specify basic clinical criteria for sepsis (systemic inflammatory response syndrome)

- 1._____
- 2._____

3._____

4 ._____

D. Test to establish the correct sequence

Establish the correct sequence of the algorithm of examination of patients with pelvic inflammatory diseases

- 1. Collection of anamnesis
- 2. Ultrasound examination
- 3. Clinical and laboratory examination
- 4. Diagnostic laparoscopy
- 5. Finding out complaints
- 6. Examination in speculum and bimanual gynecological examination
- 7. Bacteriological examination
- 8. Medical measures
- Typical Level II Tasks:

Problem I.

Patient B., 26 years old, was admitted to a gynecological clinic with complaints of abdominal pain, general weakness, fever up to 39 Co, purulent-purulent discharge from the genital tract. Medical history: a week ago she underwent a medical abortion. Gynecological diseases are denied for medical abortion. Menstrual function is not impaired. History of 2 physiological childbirth. Gynecological examination: Cervical cylindrical shape, yawn closed. The uterus in the correct position, enlarged to 5 weeks of pregnancy, soft consistency, painful, appendages without palpatory

changes, after examination there were minor bleedingand. What is the preliminary diagnosis, examination plan, treatment? Answer.

Task 2.

Patient K., 21 years old, was admitted to the gynecological department with complaints of constant abdominal pain, fever, purulent discharge from the genital tract. The deterioration of the condition notes within two weeks after casual sex. Objective: medium severity, body temperature 37.6° C, heart rate - 84 beats / min, blood pressure 110/70. The abdomen is soft, not swollen, a slightly positive symptom of Shchotkin-Blumberg in the lower divisions. In vaginal examination: Cervical cylindrical, around the external opening of the cervical canal hyperemia, swelling of the epithelium, purulent discharge. The body of the uterus is slightly enlarged, painful on palpation. Thick painful tubes are palpated on both sides. Vaginal arches are deep, loose. Establish a diagnosis, a plan of examination to clarify the etiology of the process, a plan of treatment.

Answer:

<u>№</u> p / p	Tasks	Sequence of execution	Remarks, warnings
		-	about self-control
1.	Survey with	Follow this	1. When
	external	sequences:	horizontal
	gynecological	1) conduct a general examination of the	the position of the
	examination	patient;	pregnant woman
		2) to carry out examination and	there is a syndrome
		palpation of mammary glands;	aorto-forging
		3) to give the patient horizontal	compression.
		position;	
		4) continue breast palpation;	
		5) to carry out examination of a	
		stomach;	
		6) to carry out consecutive palpation of	
		all departments of a stomach, percussion	
		and auscultation.	
	Special		
2.	gynecological	Follow this	
	examination	sequences:	2. Empty
		1) provide the patient with an	bladder and
		appropriate one	rectum
		provisions for internal	
		gynecological study;	
		2) wear sterile gloves;	
		3) conduct an examination of the	
		external genitalia;	
		2) to study the vagina and vaginal part of	
		the cervix using gynecological	
		speculum;	
		3) conduct a bimanual vaginal	
		examination, determining the state of the	
		vagina, cervix, uterus and appendages.	

7.2 Materials of methodological support for the main stage of the lesson

7.3 Materials of control of the final stage of the class.

Classification test

Determine classification of septic complications based on clinical symptoms and laboratory examination data

<u> </u>		r		
Septic complications	Systemic	Sepsis	Severe	Septic
	inflammatory		sepsis	shock
	response syndrome			
	(Systemic			
Clinical	Inflammatory			
symptoms and	Response Syndrom -			
laboratory data	SIRS)			
Body temperature greater than 38				
° C or below 36 ° C				
Heart rate exceeding 90 beats /				
min.				
Respiratory rate exceeding 20 per				
minute or Ra CO2 below 32 mm				
Hg				
Leukocyte count greater than				
12,000 / mm ³ , less than 400 /				
mm ³ or more than 10% of young				
forms				
Infection confirmed by				
bacteriological examination				
Clinical condition accompanied				
by organ dysfunction,				
hypoperfusion or hypotension				
A condition induced by				
hypotension that cannot be				
corrected by adequate fluid				
replenishment; perfusion				
disorders, which may include				
acidosis, oliguria, or acute mental				
illness.				
L				

Atypical level III task

Task 1.

Patient R., 30 years old, was admitted to a gynecological clinic with complaints of moderate abdominal pain, especially after exercise, periodic moderate vaginal discharge. The above mentioned complaints have been noted over the last 2 years. Repeatedly referred to a gynecologist, conducted anti-inflammatory treatment in a women's consultation, with the condition improved by 2-3 weeks. Sex life of 18 years without the use of contraception. History of 1 physiological birth, 2 medical abortions in the period from 8-12 weeks. Objectively: the skin and visible mucous are pale pink in color. Palpator belly is soft, painful in the lower parts, symptoms of peritoneal irritation are negative. Gynecological status: external genitalia without pathological changes. The cervix is cylindrical in shape, deformed by postpartum ruptures. The uterus is slightly enlarged in size, dense, restricted in mobility, painless. Arches shortened, left appendages increased in size, painful; right ovary enlarged in size, painful, palpable fallopian tube 3x8 cm in size. Sexual discharge subtle, moderate.

1. What is the most likely diagnosis?

2. What is the tactic of managing this patient? Answer:

Task 2.

Patient V., 37 years old, was admitted to the gynecological clinic with complaints of abdominal pain, frequent urination, painful act of defecation, general weakness, fever, nausea, single vomiting. From the anamnesis: the last 2 months have noted periodic aching pain in the lower abdomen, the above complaints appeared acutely, after a cold. Anamnestic: 2 pregnancies culminating in the birth of healthy children. 10 years ago, an intrauterine spiral was installed for the purpose of concentration. Disorders of menstrual function denies living a sexual life without the use of barrier methods of contraception. Objectively: no pathology was detected by internal organs. Skin and visible mucous pale, tongue dry, pulse 120 beats. in minutes The abdomen is soft in the epigastric region, the tension of the rectus abdominal muscles over the womb, there is also pain on palpation, a positive symptom of peritoneal irritation. Gynecological status: External genitalia formed correctly. The vaginal mucosa is pale pink in color, the cervix is cylindrical in form of hypertrophied, in the speculum: multiple cysts of the cyst, the control threads of the intrauterine spiral are visualized. The uterus is slightly enlarged, declined to the left, restricted to moving, painful. Case palpable formation size 8x8x6 cm, sharply painful, dense consistency, limited mobility. Left appendages are not clearly defined in the adhesions. The mucous secretions.

1. What is the clinical diagnosis?

2. Tactics of patient management.

Answer:

7.4 Materials for methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational literature)

№ p / p	Training tasks	Instructions to the task
	Explore:	Understand the most
1.	the most significant factors contributing to the	important factors
	development of nonspecific and specific	contributing to the
	inflammatory diseases of the female genital	development of non-
	organs	specific and specific
		inflammatory diseases of
		the female genital organs
2.	the most common classifications of	Pay attention to the
	inflammatory diseases of the female genital	classifications given in
	organs	MKH-10 and those used in
		foreign scientific sources
3.	modern methods of diagnostics of inflammatory	To name standard methods
	diseases of female genital organs	of diagnostics of
		inflammatory diseases of
		female genital organs in
		accordance with the
		current national clinical
		protocols
4.	modern approaches to the treatment of	In addition to get
	inflammatory diseases of the female genital	acquainted with the main
	organs	groups of antibacterial
		drugs used in the treatment
		of inflammatory diseases
		of the female genital
		organs
5.	basic physiotherapeutic methods of treatment of	To know the method of
	inflammatory diseases of female genital organs	using the basic
	and terms of their application	physiotherapeutic methods
		of treatment of
		inflammatory diseases of
		female genital organs
6.	Current approaches to rehabilitation of patients	Possibilities of sanatorium
	with chronic inflammatory diseases of female	and health improvement of
	genital organs	patients with chronic

		inflammatory diseases of
		female genital organs
7.	Basic principles of diagnosis and treatment of	Features of diagnosis of
	female genital tuberculosis.	tuberculosis of female
		genital organs.

a) Educational.

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K .: VSV Medicine, 2012. - 352 p.

3. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Volume 3: Non-surgical gynecology / qty. ed .; in a row. Acad. NAMS of Ukraine, prof. V.M. It is blocked. - K .: VSV "Medicine", 2014. - 928 p.

4. Obstetrics and Gynecology. Tatarchuk TF, et al. Kiev: Medicine. - 2013.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Obstetrics and gynecology: diagnosis and treatment. Tutorial. In 2 volumes. DeCherney A.H., Nathan L. 2009 Publisher: MEDpress-inform

2. Atlas of ultrasound diagnostics in obstetrics and gynecology. Dubile P., Benson K.B. 2009 Publisher: MEDPress-inform.

3. Gynecology. Illustrated clinical guide. Hart JM, Norman J. 2009 Publisher: Binom.

4. Outpatient care in gynecology / ed. V.A. Beniuk // Gynecologist doctor's guide. - 2nd ed., Suppl. - K .: Publishing House "Health of Ukraine", 2010. - 462 p. - (The series "Library" Health of Ukraine ").

5. A guide to practical skills in gynecology, obstetrics and

neonatology / Ed. prof. AND I. Senchuk. - K .: Hydromax, 2006. -

368s.

6. Order of the Ministry of Health of Ukraine No. 676 of December 31, 2004. "On approval of clinical protocols on obstetric and gynecological care."

7. Ministry of Health of Ukraine Order No. 582 of December 15, 2003 "On approval of clinical protocols on obstetric and gynecological care."

8. Pavlyuchenko MI, Slinko OM Postpartum purulent-septic complications. Tutorial. (Approved at the meeting of the Central Methodical Council of ZSMU, Minutes No. 5 of May 15, 2014) - Zaporizhzhya.-2014.-105 p.

b) Methodical.

1. Kazakov VM, Vitenko IS, Talaenko OM, Kamenetsky MS, Pervak MB, Kotlubey OV Development of methodological guidelines for students of higher medical educational establishments in accordance with modern state standards and principles of the Bologna process (Methodical recommendations for teachers of higher medical

educational establishments of IY accreditation level): Kyiv-Donetsk: CMKMOZ of Ukraine, 2005.-158 p.

2. Miller VE Methodical bases of preparation and carrying out of educational employment in medical universities (manual): - Kyiv, Khreschatyk, 2006. - 80 p.

"ACUTE" ABDOMEN SYNDROME IN GYNECOLOGY

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE TOPIC (UPDATE):

"Acute abdomen" is a complex set of symptoms in which the leading symptom is sudden pain in any department of the abdomen and clinical or laboratory signs of external or intra-abdominal bleeding, accompanied by peritoneal symptoms and pronounced changes in the patient's condition. The doctor of any specialty may encounter such a situation. Particularly often it is necessary to carry out differential diagnostics between gynecological and surgical pathology. Fast and correct diagnosis, taking organizational measures, conducting qualified treatment, as a rule, surgery, save the life of the patient.

Gynecological diseases that occur with the symptom complex "acute abdomen" can be divided into three groups:

1) diseases accompanied by intraperitoneal bleeding (ectopic pregnancy, ovarian apoplexy, rupture of the ovarian cyst capsule). In this group of diseases disorders of the general condition of the patient proceeds in the type of acute blood loss;

2) diseases associated with impaired blood supply to the organs and its necrosis (torsion of the leg of a cyst or ovarian tumor, torsion of the legs and necrosis of the myomatous node). The general reaction of the organism in this group of diseases in the beginning is manifested by a violation of hemodynamics, and in later hours of the disease - a general intoxication syndrome due to tissue necrosis;

3) acute inflammatory processes of internal genital organs at which peritonitis develops (piosalpinks, piovar, tubo-ovarian abscess). In this group of diseases the general reactions of an organism in the form of intoxication and disturbances of water-electrolyte metabolism prevail.

To logically combine the information obtained from the anatomy, physiology of the female genital organs, as well as to facilitate the development of this topic, the issues of the structure of the external and internal genital organs should be highlighted, their topography, blood supply, innervation, ligamentous apparatus of the uterus should be paid attention.

The topography of the organs is studied on the model of the internal genital organs, pathological changes in which can cause the development of the syndrome of "acute abdomen", the possible localization of the processes causing the appearance of the symptom complex.

The teacher pays great attention to clarifying the risk factors for the development of this symptom complex, collecting anamnesis. Anamnesis is the first and most important step in the examination of a patient. Yes, a patient's age can completely rule out any disease (such as ectopic pregnancy). The history of appendectomy excludes appendicitis. The opening of the abdominal cavity in the past may indicate the possibility of adhesive disease or intestinal obstruction, "ulcerative" history - of perforative peritonitis, etc. When collecting anamnesis it is also necessary to find out whether a patient has a sexual life, how she protects against unwanted pregnancy, or uses methods of intrauterine contraception (the use of the latter is a factor for the development of inflammatory diseases, as well as ectopic pregnancy).

Usually, an acute abdominal clinic is short-lived, but it is important to find out what the patient's condition and state of health was before she felt sick, from which symptom the disease began, and to what the patient attributes the disease.

Involving students to work on the phantom, attention should be paid to deviations in special gynecological examination (size, location and tenderness of the body of the uterus and appendages, the presence of volumetric formations topographically related to the body of the uterus and appendages, shortening and tenderness of the vaginal arches, displacement of the uterus forward, back, right, left) and emphasize the value of these concepts when diagnosed.

When studying special methods of research, it is necessary to point out their social significance in the diagnosis. Additional methods include ultrasound scan, abdominal puncture through the posterior arch, diagnostic laparoscopy.

The teacher shows by clinical examples the use of special methods of examination, which allow in each case to clarify and determine the diagnosis manifesting the syndrome of "acute abdomen".

Particular attention is paid to the curation of gynecological patients with acute abdominal syndrome, complaints collection, medical history, special examination, additional methods of examination, volume of operations used, preoperative preparation and tactics of post-operative period management, with subsequent examination of their patients.

II. LEARNING OBJECTIVES:

2.1 The student should know (α -II):

• topographic anatomy of female internal genital organs;

• identification of the main causes contributing to the occurrence of acute abdominal syndrome in gynecology;

• etiopathogenesis of various clinical conditions manifesting in acute abdominal syndrome;

• topographic and clinical classification of ectopic (ectopic) pregnancy;

• the main clinical signs of acute abdominal syndrome;

• principles of differential diagnostics of different conditions manifesting an acute abdomen clinic;

• current standards for the diagnosis of ectopic pregnancy and other pathological conditions with acute abdominal syndrome;

• tactics of providing first aid to patients with ectopic pregnancy, depending on the localization and other pathological conditions with acute abdominal syndrome;

• indications for conservative management of patients with ectopic malignancy and ovarian apoplexy;

• the main modern types of surgery in patients with acute abdominal syndrome and indications for their use.

1.2 The student must be able to (α -III):

To master the skills:

• collection of general and special medical history;

• to find out the patient's complaints, the time of their occurrence and their dynamics over time;

• general examination of the patient;

• conducting a special external gynecological examination, assessing the condition of the abdominal organs through the anterior abdominal wall (symptoms of peritoneal irritation);

• Perform examination with gynecological speculum to take smears from the urethra, cervical canal, vagina, and rectum;

• internal gynecological examination (abdominal-vaginal examination, abdominal-rectal);

• technique of carrying out a puncture of an abdominal cavity through a back arch;

• based on the data of the special gynecological examination of the patient and the results of the additional examination, correctly diagnose and choose the tactics of treatment;

• to know the rules of preoperative preparation and tactics of conducting the postoperative period;

• know the principles of surgery, surgical approaches used to treat diseases that are accompanied by the development of acute abdominal syndrome.

III. PURPOSE OF PERSONAL DEVELOPMENT (EDUCATIONAL OBJECTIVE): To educate students about the importance of acute abdominal syndrome, timely intrasyndrome and differential diagnosis of this pathology, the need for doctors to have the skills to provide emergency medical care. Pay particular attention to the risk to patients' lives in violation of the principles of timeliness of diagnosis and treatment; first of all, the states that manifest intraperitoneal bleeding. Pay special attention to preventive examinations for the prevention of diseases related to impaired blood supply and necrosis of the internal genital organs (torsion of the cyst or ovarian tumor, torsion of the legs and necrosis of the myomatous node), acute inflammatory processes of the internal genital organs, tubo-ovarian abscess). To deepen the students' understanding of the importance of medical ethics and deontology at communication with patients with suspected and verified acute abdominal syndrome. To continue developing students' sense of professional responsibility for their own actions and the fate of the patient. To master the ability to deepen psychological contact with the gynecological patient. In order to strengthen self-awareness, pay attention to the contribution of domestic and foreign scientists to the study of conditions that manifest as a syndrome of "acute abdomen".

IV. Interdisciplinary integration

Discipline	Know	Be able				
I. Previous disciplines (pro	I. Previous disciplines (providing):					
History of medicine	- contribution of domestic and foreign scientists to study the problem of "acute abdomen" in gynecology	- to interpret information about the structure female genital organs, age differences of the genital				
Human anatomy and topographic anatomy	 structure of external genitals; structure of internal genitals 	organs				
II. The following discipline						
Surgery, urology	- modern principles and possibilities of differential diagnosis in acute abdominal syndrome in gnecology and in acute surgical pathology	- be able to carry out according to anamnestic, clinical, laboratory data and the results of additional methods of examination, differential diagnosis between acute abdominal syndrome in gnecology and in acute surgical pathology				
III. Intra-curricular integr	1					
Differential diagnosis of acute gynecological conditions manifesting the	- a list of gynecological diseases manifesting "acute abdominal	- specify the criteria for differential diagnosis in acute abdominal syndrome				

same clinical symptoms	syndrome"	in gynecology
Principles of examination	- basic anamnestic data,	- demonstrate the
of women with acute	complaints and clinical	methodology of external
abdominal syndrome	manifestations in diseases	and internal gynecological
	of different localization	examination
	- algorithm for	
	examination of women	
	with acute abdominal	
	syndrome	
Ultrasound in the diagnosis	- the main criteria of	- to demonstrate the
of diseases with acute	ultrasound diagnostics	possibilities of ultrasound
abdominal syndrome		examination in the office
		of functional diagnostics
The importance of	-main indications for	- to demonstrate the main
laparoscopy and	laparoscopic and	stages of laparoscopic and
hysteroscopy in the	hysteroscopic examination	hysteroscopic examination
diagnosis and treatment		on the model

V. TABLE OF CONTENTS OF LESSON: STRUCTURAL-LOGICAL SCHEME OF EMPLOYMENT

Classification of ectopic pregnancy.

1. For MKH-10:

O00 Abdominal (abdominal) pregnancy

O00.1 Tubal pregnancy

Pregnancy in the fallopian tube

Uterine tube rupture due to pregnancy

Pipe abortion

O00.2 Ovarian pregnancy

O00.8 Other forms of ectopic pregnancy

Cervical

Combined

In the uterus

Intrauterine

In the uterine mesentery

O00.9 Ectopic pregnancy is unspecified

2. In the course of:

- progressive;
- broken (tube abortion, rupture of the fallopian tube);
- the pregnancy has stopped.

An algorithm for the diagnosis of ectopic pregnancy



Algorithm for surgical treatment of PV



Conservative treatment of EP.

Conservative treatment of advanced ectopic pregnancy with methotrexate may only be performed at third-level health facilities, where it is possible to determine the HCG subunit in the serum and to perform ultrasound with a transvaginal sensor.

Indications for the use of methotrexate in the case of PV.

To avoid the introduction of methotrexate during normal uterine pregnancy or miscarriage, it is prescribed only in the following cases:

1. Increased level of HCG subunit in serum after organ-preserving operation on the fallopian tube, which is performed about progressing ectopic pregnancy.

2. Stabilization or increase in the level of the HCG subunit in the serum for 12-24 hours after separate diagnostic scraping or vacuum aspiration, if the size of the fetal egg in the area of the uterine appendages does not exceed 3.5 cm.

3. Determination of ultrasound transducer fetal egg sensor with a diameter of not more than 3.5 cm in the area of uterine appendages in the case of the level of subunit of HCG more than 1500 IU / 1 in the absence of a fetal egg in the uterine cavity. 000.2. Ovarian pregnancy

It develops in the event of fertilization of an egg in the cavity of the follicle. The incidence of ovarian pregnancy is 0.5-1% of all ectopic pregnancies and ranks second in frequency after tubal pregnancy. The only risk factor for this ectopic pregnancy option is the use of intrauterine contraceptives.

Diagnosis.

The clinical signs are the same as for tubal pregnancy. With impaired ovarian pregnancy clinic hemorrhagic shock. In 75% of ovarian pregnancies, ovarian apoplexy is mistakenly diagnosed.

Ultrasound examination of the pelvic organs, especially by a transvaginal sensor, helps to diagnose when the fetal egg is imaged in the ovary and a positive qualitative response to HCG.

Treatment.

Surgical treatment includes fetal egg removal and wedge-shaped ovarian resection.

In case of massive ovarian injury and significant intra-abdominal bleeding, an ovariectomy is performed.

O00.8 Cervical pregnancy

Cervical pregnancy is one of the rare and severe options for ectopic pregnancy when implantation of a fertilized egg took place in the cervical canal.

Diagnosis.

1. Medical history, including gynecological. Attention is paid to the number of abortions and the course of the post-abortion period, inflammatory diseases of the internal genitals, including the cervix.

2. Examination of the cervix in the speculum. Visualization of the cyanotic barrel cervix.

3.Bimanual gynecological examination. The uterus together with the neck in the form of "hourglass".

4. Ultrasound examination of pelvic organs.

Treatment.

1. In the case of diagnosed cervical pregnancy - a definite refusal to scratch the walls of the uterine cavity, which can lead to the development of profuse bleeding.

2. The method of treatment of cervical pregnancy - surgical (extirpation of the uterus).

3. After confirmation of the diagnosis of cervical pregnancy determine the blood group and the Rh-factor, establish a venous catheter, get informed written consent of the patient to perform extirpation of the uterus. In the department of transfusion order single-group fresh frozen plasma, freshly prepared erythrocyte mass, prepare preparations of hydroxyethylated starch.

O00 Abdominal (abdominal) pregnancy

It makes 0.003% of all cases of ectopic pregnancy. There are primary and secondary abdominal pregnancies.

The term primary refers to implantation of a fertilized egg in the abdominal cavity.

Secondary - is formed when the fetal egg is in the abdominal cavity after tube abortion. Maternal mortality in abdominal pregnancy is 7-8 times higher than in tubal and 90 times higher than in uterine.

Diagnosis.

Clinical manifestations depend on the duration of pregnancy:

1. In the first and the beginning of the second trimester, they differ little from the symptoms of tubal pregnancy.

2. At a later date, pregnant women complain of pain during the movement of the fetus, a feeling of agitation in the epigastric region, or sudden termination of the movement of the fetus.

3. During physical examination, the soft parts of the fetus and the small uterus are easily palpated. Abdominal pregnancy is also diagnosed in the absence of uterine contractions after oxytocin administration.

4. Ultrasound is used for diagnosis. If the ultrasound is not informative, the diagnosis is confirmed by radiography, CT and MRI. The radiograph of the abdominal cavity, taken in lateral projection, shows the shadow of the skeleton of the fetus, which is superimposed on the shadow of the spine of the mother.

Treatment.

Given the high risk of maternal mortality, surgical treatment is performed immediately after diagnosis. During surgical treatment, the vessels supplying blood to the placenta are isolated and bandaged and, if possible, removed. If this is not possible due to severe bleeding, the placenta is tamped. Tampons are removed after 24-48 hours.

If these vessels cannot be isolated, the umbilical cord and cord are cut and the placenta is left.

Classification of hemorrhagic shock by clinical course and severity (Chepkiy LP et al., 2003).

The severity of	Stage of shock	The amount of blood loss	
the shock		% Bcc	% body weight
1	Compensated	15 – 20	0,8 - 1,2
2	Subcompensated	21 – 30	1,3 – 1,8
3	Decompensated	31 - 40	1,9 – 2,4
4	Irreversible	> 40	> 2,4

indicator	licator the degree of shock					
	0	1	2	3	4	
Blood loss, (ml)	< 750	750–1000	1000-1500	1500-2500	> 2500	
Blood loss,	< 15%	15 - 20%	21 - 30%	31-40%	> 40%	
(% BCC)						
Pulse, beats / min	< 100	100 - 110	110 - 120	120 - 140	>140 або < 40	
Systolic blood pressure,	N	90 - 100	70 – 90	50 - 70	< 50	

mmHg					
Shock index	0,54-	0,8-1	1 - 1,5	1,5-2	> 2
	0,8				
	,				
CVT, mm.w.	60 - 80	40 - 60	30 - 40	0-30	≤ 0
White Spot Test	N(2a)	2 - 3 c	> 3 c	> 3 c	> 3 c
White Spot Test	N(2C)	2 - 3 c	> 3 C	> 3 C	> 5 C
Hematocrit l / l	0,38-	0,30 - 0,38	0,25-0,30	0,20 - 0,25	< 0,20
	0,42				
Respiratory	14 - 20	20 - 25	25 - 30	30-40	> 40
rate per minute					
ruce per minute					
	50	20 50	25 20	<u> </u>	0.7
The rate of	50	30 - 50	25 - 30	5 – 15	0 - 5
diuresis ml / h					
Mental status	Rest	Minor	Anxiety,	Anxiety, fear	Confusion
		concern	moderate	or confusion	or coma
		Concern			or comu
			anxiety		

Intensive care of hemorrhagic shock.

General principles of treatment of acute blood loss:

- 1. Immediate stopping of bleeding by conservative or surgical methods.
- 2. Ensuring adequate gas exchange.
- 3. Replenishment of the BCC deficit.
- 4. Prevention and treatment of coagulopathy.
- 5. Treatment of organ dysfunction and prevention of multiple organ disadvantages:
- treatment of heart failure;
- prevention of renal failure;
- correction of metabolic acidosis;
- stabilization of metabolism in cells.
- 6. Early prevention of infection (by general rules).

Priority actions in case of hemorrhagic shock (performed

in parallel):

1. Evaluate vital functions (heart rate, blood pressure, frequency and breathing, mental status).

2. Report to the responsible obstetrician-gynecologist and the deputy chief medical practitioner on the occurrence of bleeding and development hemorrhagic shock, mobilize staff.

3. Begin inhalation of O2 via intranasal catheters or nasolithic catheters mask (10-15 1/min).

4. If possible, raise the patient's feet or the foot end of the bed

(Trendelenburg position) by 15 - 20 $^\circ$ to enhance venous return to the heart.

5. Return the patient to the left side to prevent the development of aorto-cavalry

syndrome, reduce the risk of aspiration during vomiting and ensure a free airway.

6. Catheterize two peripheral veins with large diameter catheters.

Catheterization of the third vein (one of them should be central)

to carry out on a background of replenishment of bleeding!

7. Collect 20 ml of blood to determine group and rhesus affiliation,

cross-compatibility, hemoglobin and hematocrit content, coagulogram baseline parameters (APHT, prothrombin and

thrombin time, EOM, fibrinogen) perform the Lee White test and in parallel start infusion of balanced crystalloid solutions.

8. Catheterize the bladder and debug

minimal monitoring of hemodynamic parameters: pulse oximetry,

AO, pulse. Document all measurements. Carefully consider the amount of blood loss!

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE EMPLOYMENT:

№ п/п	The main stages of the lesson, them functions and content	Levels of assimilatio	Methods control teaching	Materials methodical software	Time
Prep	aratory stage	<u> </u>			1
1.	Organization of classes				15хв.
2.	Setting educational goals		Individual	Methodical	
	and motivation		oral questioning.	Development	
	Output level control		Test control		1год.
3.	knowledge, skills, ability:	IIα	Level II.	Questions for	15хв.
	1) contributing reasons		Solution	individual	
	development of		typical tasks	verbally	

	nosological forms of		Level II	poll.	
	acute abdominal			Level II test	
	syndrome;			tasks.	
	2) modern classification			Typical level II	
	of diseases that cause the			tasks	
	development of "acute			thematic	
	abdominal syndrome";			tables, posters,	
	3) the main clinical			models, slides.	
	symptoms of "acute				
	abdomen'' in gynecology;				
	4) modern methods of				
	diagnostics of "acute				
	abdomen'' in gynecology;				
	5) basic principles of				
	treatment of diseases				
	manifesting the acute				
	abdominal syndrome.				
II. T	he main stage				<u> </u>
4.	Formation of professional				1год.
	skills and competences:		Practical training	Algorithms for	40хв.
	1) work in women's	IIIα		formation	
	consultations,			practical	
	gynecological department,		Professional	skills.	
	operating unit;		training in	Gynecological	
	2) master the techniques	IIIα	solution	tools	
	collecting anamnesis,		atypical	for examination	
	external and		clinical	gynecological	
	internal		situations	patient.	
	gynecological			Phantoms.	
	research;			Models.	
	3) to supervise a			Algorithms for	
	gynecological patient with			formation	
	an acute abdominal			professional	
	syndrome;			skills and	
	4) evaluate and interpret			skills. Patients.	
	survey results			Illnesses.	
	the patient;			Situational	
	5) to carry out intra-			atypical tasks	
	syndrome differential			Level III	

	 diagnosis in patients with acute abdominal syndrome and other gynecological pathology; 6) make the diagnosis according to received data; 7) identify and justify medical tactics; 8) to know the course of the main surgical interventions for diseases 				
	with the syndrome of				
	"acute abdomen".				
	The final stage	T			1
5.	Level control and	IIIα	Individual	Gynecological	30хв.
	correction		control	tools.	
	professional skills.		practical	Results	
			skills and theirs	clinical	
			results.	examination.	
			Analysis and		
			evaluation	Level III test	
			results	tasks.	
			clinical work.		
			Level III test	Atypical level	
			control.	III tasks.	
			The solutions are		
6.	Summary of the lesson.		atypical		5хв.
7.	Homework.		level III tasks.	Indicative map	15хв.
				for self	
				work with	
				literature.	

VIII. MATERIALS OF METHODICAL ENSURING:

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. What is the anatomical and histological structure of the external and internal genital organs?

2. List the gynecological diseases that lead to the development of the syndrome of "acute abdomen".

3. Give a definition of ectopic (ectopic) pregnancy.

4. What are the major risk factors for ectopic pregnancy?

5. Modern topographic and clinical classification of ectopic pregnancy.

6. What are the current diagnostic options for ectopic pregnancy?

7. What should be the medical tactics for diagnosing ectopic pregnancy? Indications for surgical and conservative treatment of ectopic pregnancy.

8. Date of determination of ovarian apoplexy and rupture of ovarian cyst.

9. What are the main causes contributing to the occurrence of ovarian apoplexy and rupture of the ovarian cyst?

10. What are the current standards for the diagnosis of ovarian apoplexy and ovarian cyst rupture?

11. Approaches to differential diagnosis of ectopic pregnancy, apoplexy and rupture of the ovarian cyst.

12. What should be the medical tactics in the diagnosis of ovarian apoplexy and rupture of the ovarian cyst?

13. To explain the pathogenesis of myomatous node necrosis.

14. Modern classification of uterine leiomyoma by types of localization.

15. The main clinical symptoms in the development of malnutrition or necrosis of the myomatous node.

16. What are the current possibilities for diagnosis and differential diagnosis of myomatous node necrosis and ovarian cyst perversion?

17. What are the current tactics for the treatment of acute abdominal syndrome with myomatous node necrosis and peritoneal cyst?

Test Control Materials (IIa):

A. Multiple choice test.

Specify risk factors for ectopic pregnancy

1. Age of the patient.

2. Inflammatory diseases of the uterus and uterine appendages in history.

3. Scarring - adhesive changes of the pelvic organs due to previously performed operations on the internal genital organs, pelvioperitonitis, abortion.

4. The presence of submucosal node.

5. Disorders of ovarian hormonal function.

- 6. Genital infantilism.
- 7. The presence of concomitant pathology of applications.
- 8. Endometriosis.
- 9. Long-term use of intrauterine contraceptives.
- 10. Extragenital pathology.
- 11. Auxiliary reproductive technologies.

B. Test for drawing parallels, establishing logical connections between data groups Establish a logical connection between the following clinical forms of tubal pregnancy and the corresponding diagnostic features in abdominal vaginal examination

1.	Progressive ectopic pregnancy	1.	The uterus does not meet the period of delay of menstruation, pain at uterine displacement, formation in the projection of the appendage without clear contours, posterior arch smoothed
2.	Tubular miscarriage	2.	The uterus does not meet the period of delay of the menstruation, symptoms of "floating uterus", soreness of the uterus and appendages on the affected side, overhang of the posterior arch
3.	Uterine tube rupture	3.	The uterus does not meet the period of delay of the menstruation, along with the uterus determines the formation of a retorted form, painless, vault free

B. Addition test

Specify the main criteria for assessing hemorrhagic shock to assess BCC deficiency, stage and severity

 1 .______

 2. ______

 3 .______

 3 .______

 4 ._______

 5 ._______

 6 ._______

 7 ._______

 8 ._______

 9 ._______

 10 .

D. Test to establish the correct sequence

Establish the correct sequence of the methotrexate application method for ectopic pregnancy, indicating the time of day

1. Determination of the level of HCG subunit in serum _____.

2. General analysis of blood, determination of group and rhesus factor of blood of woman, activity of liver enzymes _____.

3. When the level of the HCG subunit in serum is increased by more than 15%, the patient is observed, the weekly level of the HCG subunit is determined until this level is less than 10 IU / 1.

4. Metrotrexate 75-100 ml intramuscularly _____.

5. Determination of the level of HCG subunit in serum

6. With a decrease in serum HCG subunit less than 15%, methotrexate is re-injected

75-100 ml intramuscularly _____

Typical Level II Tasks:

Problem I.

The patient, 35 years old, went to a women's consultation to complain about the poor blood flow from the genitals, which appeared after a delay of menstruation for 3 weeks. Lower abdominal pain. There were no pregnancies before. Objectively: skin and mucous membranes pale, heart rate - 98 per 1 minute, blood pressure - 100 - 60 mm Hg. Bimanual: the uterus is slightly enlarged in size, painful on palpation, palpable on the right, enlarged and sharply painful appendages, posterior arch extended, sharply painful. What is the previous diagnosis? What research should be done urgently to verify the diagnosis? Determine your doctor's tactics depending on the clinical diagnosis.

Answer.

Task 2.

Patient K., 23 years old, was urgently taken to the gynecological ward with complaints of abdominal pain with irradiation into the rectum, the state of consciousness was assessed as inhibition. The complaints came suddenly after a sexual act. Last menstruation 2 weeks ago. The skin is pale, the heart rate is 102 beats / minute, blood pressure 90/60 mm Hg. The abdomen is tense, somewhat painful in the lower parts, the symptoms of abdominal irritation are slightly positive. What is the most likely diagnosis? What examination plan should be put in place to clarify the diagnosis? What is the doctor's tactics depending on the clinical diagnosis? Answer:

<u>№</u> p / p	№ p / p Tasks Sequence of implementation		Remarks, warning
			about self-control
1.	Survey with	Follow this	1. When
	external	sequences:	horizontal
	gynecological	1) conduct a general examination of the	the position of the
	examination	patient;	pregnant woman
		2) to carry out examination and	there is a syndrome
		palpation of mammary glands;	aorto-forging
		3) to give the patient horizontal	compression.
		position;	
		4) continue breast palpation;	
		5) to carry out examination of a	
		stomach;	
		6) to carry out consecutive palpation of	
		all departments of a stomach, percussion	
		and auscultation.	
	Special		
2.	gynecological	Follow this	
	examination	sequences:	2. Empty
		1) provide the patient with an	bladder and
		appropriate one	rectum
		provisions for internal	
		gynecological study;	
		2) wear sterile gloves;	
		3) conduct an examination of the	
		external genitalia;	
		4) to carry out examination of the vagina	
		and vaginal part of the cervix with the	
		help of gynecological speculum;	
		5) conduct a bimanual vaginal	
		examination, determining the state of the	
		vagina, cervix, uterus and appendages.	

7.2 Materials of methodological support for the main stage of the lesson
7.3 Materials of control of the final stage of the class.

Classification test

Identify the diagnostic features of various forms of tubal pregnancy

Clinical forms of tubal pregnancy	Progressive Ectopic Pregnancy	Tubal Miscarriage	Rupture of the fallopian tube
Clinical signs	•		
Signs of pregnancy			
The general condition of the			
patient			
Pain			
Selection			
Vaginal examination			
Additional methods of			
examination			

Atypical level III task

Task 1.

An ambulance delivered a woman 43 years old with a complaint of aching lower abdominal pain, general weakness and fever to 37.6 C^0 . From the anamnesis: pain has been worrying the patient for the last month, 2 days ago noted an increase in body temperature to subfibrillary values and a sign of general weakness, within 6 hours noted an increase in pain in the lower abdomen. Reproductive function: 2 births, 1 medical abortion. The last menstruation - without delay and without features. Gynecological diseases: small-size uterine leiomyoma for 7 years, according to FIGO type 7 medical records. Menstrual function is not impaired, the last menstruation - without delay and without features. Objectively: The skin and mucous membranes are normal, the heart rate is 88 beats / minute, the blood pressure is 130/80 mm Hg. The abdomen is somewhat painful in the lower parts, the symptoms of abdominal irritation are slightly positive in the right iliac region. Bimanual: The uterus is slightly enlarged in size, dense, motile, palpatory. Near the uterus to the right is determined by the formation of a dense consistency of up to 7 cm in diameter, palpator sharply painful, limited mobility.

1. Make a preliminary diagnosis. Based on which anamnestic and clinical findings did you make a diagnosis?

2. Determine the most optimal doctor's tactics.

Answer.

Task 1.

Patient L., 33, complained of a 10-day menstrual delay and spotting. The pregnancy test is positive. Obstetric and gynecological history is not burdened. Gynecological diseases denies. Menstruation from 13 years, 3-4 days, 28-30 days, regular, moderate, painless. Notes during the last year miserable menstruation for 2-3 days. There are no pregnancies in history. During the initial examination, the condition was satisfactory; skin and visible mucous membranes of normal color, clean, moist. Vesicular breathing, heart sounds clear, rhythmic. The abdomen is soft, painless in all areas. Clinical blood test, biochemical blood test, general urine analysis without features. Ultrasound: uterine body is defined in anteversio-flexio; contours clear, uneven, dimensions 58x46x54 mm; on the back wall a subserous myomatous node with a diameter of 12 mm is visualized. Endometrium 12 mm thick, homogeneous, structure corresponds to the 2nd phase of the cycle. Normal cervix. The cervical canal is locally enlarged. In the cervical canal, a cystic cavity of 8 mm in diameter was detected. Inside the cavity is determined by cystic involvement with a diameter of 2 mm (Fig. 1, 2). Right ovary not enlarged (22x14x11 mm), follicular apparatus of normal structure. The left ovary is not enlarged (35x18x18 mm), the follicular

apparatus has a normal structure. The yellow body is defined with an average diameter of 18 mm. A small amount of free fluid in ectopic space.

1. Make a preliminary diagnosis. Based on which anamnestic, clinical, and ultrasound findings have you been diagnosed with?

2. Determine the most optimal doctor's tactics.

Answer.

7.4 Materials for methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational

	interature)					
<u>№</u> p / p	Training tasks	Instructions to the task				
	Explore:	Carefully understand the				
1.	Gynecological conditions leading to the	definitions and classifications of				
	development of acute abdominal	all gynecological diseases that				
	syndrome	lead to the development of acute				
		abdominal syndrome				
2.	Modern methods of diagnostics of various	To name the standard methods of				
	diseases leading to the development of	diagnostics of diseases leading to				
	acute abdominal syndrome in gynecology	the development of the syndrome				
		of "acute abdomen" in				
		gynecology				
3.	Current approaches to surgical and	To pay attention to indications				
	conservative treatment of ectopic	and algorithm of conservative				
	pregnancy	treatment of ectopic pregnancy				
4.	Types of surgery used in the treatment of	To pay attention to indications for				
	patients with acute abdominal syndrome	surgical interventions and course				
		of operations at various				
		gynecological diseases with a				
		syndrome of "acute abdomen"				
5.	Current requirements in accordance with	Pay attention to the relevant				
	national protocols for the management	clinical protocols used in the				
	and treatment of patients with acute	countries of the European Union				
	abdominal syndrome					

literature)

VIII. LITERATURE

a) Educational.

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K .: VSV Medicine, 2012. - 352 p.

3. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Volume 3: Non-surgical gynecology / qty. ed .; in a row. Acad. NAMS of Ukraine, prof. V.M. It is blocked. - K .: VSV "Medicine", 2014. - 928 p.

4. Obstetrics and Gynecology. Tatarchuk TF, et al. Kiev: Medicine. - 2013.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Zaporozhan VM Operative gynecology. / VN Zaporozhye. - Odessa: ODMU, 2006. - 448 p.

2. Emergency conditions in obstetrics: A study guide for students. higher. honey. teach. Establishments / edited by B.M. Ventskivskyi, A.Ya. Senchuk, OO Zelinsky. - TES Publishing House, 2011. - 260 p.

3. Obstetrics and gynecology: diagnosis and treatment. Tutorial. In 2 volumes. DeCherney A.H., Nathan L. 2009 Publisher: MEDpress-inform

4. Atlas of ultrasound diagnostics in obstetrics and gynecology. Dubile P., Benson K.B. 2009 Publisher: MEDPress-inform.

5. Gynecology. Illustrated clinical guide. Hart JM, Norman J. 2009 Publisher: Binom.

6. Outpatient care in gynecology / ed. V.A. Beniuk // Gynecologist doctor's guide. - 2nd ed., Suppl. - K .: Publishing House "Health of Ukraine", 2010. - 462 p. - (The series "Library" Health of Ukraine ").

7. Ministry of Health of Ukraine Order No. 676 of December 31, 2004 "On the approval of clinical protocols in obstetric and gynecological care."

8. Order of the Ministry of Health of Ukraine № 205 of 24.03.14. «On Amendments to the Orders of the Ministry of Health of Ukraine dated December 29, 2005 No. 782 and December 31, 2004 No. 676»

9. Electronic document "Adapted clinical guidelines based on evidence of" Abnormal uterine bleeding ", 2016.

10. National consensus on the management of patients with abnormal uterine bleeding of the Association of Gynecologists and Endocrinologists of Ukraine. Reproductive endocrinology. 2015; 1 (21): 8-12.

11. Pavlyuchenko MI, Slinko OM Postpartum purulent-septic complications. Tutorial. (Approved at the meeting of the Central Methodical Council of ZSMU, Minutes No. 5 of May 15, 2014) - Zaporizhzhya.-2014.-105 p.

12. Zaliznyak V.O. Emergency conditions in gynecology. - Zaporozhye: ZDMU. - 213. - 84 p.

b) Methodical.

1. Kazakov VM, Vitenko IS, Talaenko OM, Kamenetsky MS, Pervak MB, Kotlubey OV Development of methodological guidelines for students of higher medical educational establishments in accordance with modern state standards and principles of the Bologna process (Methodical recommendations for teachers of higher medical educational establishments of IY accreditation level): Kyiv-Donetsk: CMKMOZ of Ukraine, 2005.-158 p.

2. Miller VE Methodical bases of preparation and carrying out of educational employment in medical universities (manual): - Kyiv, Khreschatyk, 2006. - 80 p.

INFERTILE MARRIAGE

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE THEME (UPDATE):

The demographic situation in Ukraine today is extremely difficult. The evidence of this is an increase in mortality rates and a decrease in fertility rates. All this is related to the negative economic situation and the harmful effects of environmental factors on the reproductive system, which leads to infertility.

Infertility remains one of the most important medical and social problems. A barren couple is one who, at desire to have a baby, does not have conception for 12 months when active sexual intercourse without the use of contraceptives. Pregnancy is believed to occur on the basis of regular (2-3 times a week) sexual intercourse for 1 year in married couples who do not use contraceptives.

According to the State Statistics, the infertility rate in Ukraine is 17-19.5% of the total population of married couples. Among the countries of the world, Ukraine ranks 211th out of 222 in terms of fertility.

A distinction is made between primary, secondary male and female, combined (combination of female and male infertility or spousal incompatibility) and idiopathic (causes not determined) infertility. If none of the partners had children before marriage, it is a matter of primary infertility. If a woman has had at least one pregnancy, regardless of its completion, diagnosed infertility is considered "secondary". They also define congenital or acquired infertility.

The most common cause of female infertility is endocrine diseases that are associated with impaired ovogenesis and the ovulation process. Infertility suffers from patients with various forms of hyperprolactinemia, hyperandrogenism, polycystic ovary syndrome, post-pubertal form of adrenogenital syndrome and other forms of endocrine disorders. A significant number of infertility cases are the result of a disorder of the endocrine function of the ovaries, and these disorders can be both primary and secondary as a result of the transmitted inflammation. In the ovaries, cyclical processes are disturbed, anovulation or slowing of maturation of the follicle with a defective luteal phase occurs. Endocrine infertility also occurs with disorders of the function of the menstrual cycle in the form of amenorrhea, hypomenstrual syndrome, uterine bleeding.

Tubal and peritoneal factors are currently the cause of infertility in 25-35% of women. This leads to adhesive process in the pelvis, which causes the pipes to bend

while maintaining their patency. Tubal infertility is caused by anatomical and functional disorders in the fallopian tubes. Abortions are of great importance in the etiology of infertility because they cause inflammatory processes in the uterine mucosa with subsequent dystrophic changes that impede implantation. Salpingo-oophoresis can lead to ovulation, and if it occurs, the adhesive process does not allow the egg to enter the tube.

Infertility can be caused by a condition of a uterine mucosa when the endometrium undergoes degenerative changes due to post-inflammatory processes, repeated scraping of the walls of the uterine cavity, which impairs the implantation process and leads to uterine form of amenorrhea. The immunological form of infertility, which is caused by the formation of anti-sperm antibodies in a man or woman, occurs relatively rarely. Its frequency is 2% among all forms of infertility.

The cause of infertile marriage in 40 - 50% is the pathology of the reproductive system in one of the spouses, in 25 - 30% - in both, 15-20% of cases account for infertility of unclear origin. In 50-82% of cases, women have combined infertility. With combined infertility, the first place among female factors is tubal-peritoneal - 43%, in the second - endocrine infertility - up to 30%, in the third - endometriosis - 25%. An analysis of the causes of infertility revealed an increase in the proportion of the male factor over the past 20 years by an average of 10 - 12%.

Treatment with the use of assisted reproductive technologies (DRTs) is becoming more widespread. DHT is a collection of infertility treatments that include various types of gametype manipulation, some or all stages of reproductive cell preparation, fertilization and embryo development before transfer to the uterus, which is performed in vitro. Today, these are not only ways of overcoming various forms of male and female infertility, but also the possibility of preventing and treating hereditary diseases through preimplantation molecular diagnostics and cell technologies that have been developing rapidly in recent decades.

However, not always are the DRT attempts successful. Their efficiency in Ukraine is on average 33.53% per cycle, in France - 27.5%, in Belgium - 26.7%, in the UK - 30.3%.

The average efficacy of using DHT in women with normal ovarian reserve is 30%, with a low ovarian reserve and insufficient ovarian response the frequency of successful extracorporeal fertilization (IVF) attempts lower and does not exceed 12%. The incidence of unsuccessful DRT attempts, which is caused by a low ovarian reserve and insufficient ovarian response, ranges from 11 to 24%, and in the case of

repeated attempts more than 45%. When the embryo transfer stage is reached, the pregnancy rate ranges from 3 to 6%, only sometimes reaching 12%.

Not only is infertility a topical problem in modern medicine, but it is also of great social importance because it is linked to a person's mental state.

Although modern MDT methods do not allow a global solution to the demographic situation in the country, their widespread implementation and continuous improvement treats infertility for many married couples who until recently were simply doomed to childlessness and enables them to have children of their own.

In order to improve the results of infertility treatment, the priority ways for the development of ART are the improvement of laboratory methods, optimization of clinical protocols, mandatory definition of prognostic criteria (female reproductive potential, quality of oocytes and embryos, endometrial receptivity, ability of embryos, and ability of embryos). molecular diagnostics and cell technology and family preservation.

II. LEARNING OBJECTIVES

2.1 The student should know (α -II):

• concept of infertility in marriage, criteria for making a diagnosis of infertility;

• demographic and medical aspects of infertility, its classification;

• regulatory documents governing the provision of medical care to infertile couples in Ukraine, features of organizing specialized medical care for infertile couples

• basics of folliculogenesis, oocyte maturation and ovulation, basic methods for ovulation confirmation;

• basic methods for determining the emergency reserve;

• modern approaches to the diagnosis of infertility in marriage; algorithm for examination of infertile married couple.

• basic endocrinological syndromes, basics of hormonal screening for the diagnosis of endocrine infertility;

- Features of examination of patients with oligomenorrhea and amenorrhea;
- indications and contraindications to ovulation induction;

• risk factors, classification of clinical manifestations of CSF, features of diagnosis, clinic, diagnosis and management of patients with ovarian hyperstimulation syndrome;

• mechanisms of NLF formation, effect of progesterone deficiency on endometrium in NLF;

• NLF diagnostic methods, NLF correction principles, drugs, administration regimens;

• definition and classification of PCOS, current understanding of the etiopathogenetic mechanisms of PCOS development, clinical and biochemical features of PCOS;

• principles of conservative and surgical treatment of PCOS;

• the main causes of tubal-peritoneal infertility;

• basic methods of diagnostics and treatment of tubal-peritoneal infertility, examination standards, features of post-operative period management and rehabilitation of patients;

• the main etiological factors of the development of male infertility, methods of diagnosis, interpretation of sperm;

• methods of collecting sperm (TESE, TESA, MESA, PESA), indications for the use of DHT;

• the role of DRT in the treatment of infertility, legal and ethical principles in the use of DRT;

• indications for the use of DRT. Types of DRT;

• testimony, principles of intrauterine insemination, semen quality requirements;

• the concept of IVF, indications and contraindications to the conduct, types of programs. Conditions for conducting a standard IVF program (female and male factors);

• indications for intracytoplasmic injection of sperm;

• indications for the cryopreservation of embryos, the timing of sampling, the storage time of embryos;

• indications for the use of the DRT program by donor oocytes;

• major complications of DHT.

2.2 The student must be able to (α -III)

To master the skills:

- identifying risk factors for female and male infertility;
- collecting general and special medical history for women with infertility;
- evaluate the emergency reserve;

• interpret the results of hormonal, ultrasound, basal thermometry data in infertile patients;

• management of patients with NLF;

• to develop patients with various forms of hyperproliferative syndrome (endometriosis, uterine fibroids) and with infertility an algorithm of diagnostic and therapeutic measures;

• to interpret the clinical and biochemical results of the PCOS examination.

• carry out differential diagnosis of PCOS and endocrinopathy;

• diagnose ovarian hyperstimulation syndrome;

• to prepare patients for hysterosalpingography, hysteroscopy and laparoscopy, to interpret the obtained data;

• develop an algorithm for screening men in infertile couples;

• to interpret spermogram data, MAR-test;

• determine the contingent of patients to be IVF;

• determine the indications for intrauterine insemination, the program of intracytoplasmic injection of sperm, cryopreservation of embryos, the use of donor oocytes.

III. PURPOSE OF PERSONAL DEVELOPMENT

(EDUCATIONAL PURPOSE)

To educate students about the importance of infertility. Pay particular attention to current diagnostic capabilities, formulate concepts about the timing of the infertile couple examination and timely adjustments to specialized centers for the reproductive function of the family to select appropriate methods of reproduction and reproductive function. To interest students in a detailed study of the material on the problem of diagnostics of the causes of infertility from the point of view of modern reproductive technologies. Enhance understanding of deontology and medical ethics with couples in counseling on infertile marriage. To develop in students a sense of professional responsibility for their own actions, the fate of women before prescribing treatment and diagnostic measures on issues of diagnostics and restoration of fertility. Master the ability to make psychological contact with women of different age groups.

To strengthen students' awareness of the role of achievements of national reproductology and world experience of fertility treatment.

Discipline / Topics Know		Be able
I. 1	Previous disciplines (prov	iding):
History of medicine	Contribution of domestic and foreign scientists to: - study of anatomy and physiology of female genital organs; - studying the problem of infertility prevalence in Ukraine and the world.	 to explain to the medical community the contribution of scientists, especially domestic ones, to the study of various aspects of the problem of barren marriage. be able to give examples of outstanding national and world scientists and their outstanding scientific
Normal anatomy Human	- anatomy of female genital organs.	achievements in solving this problem interpret information about the anatomical structure of the
Histology and embryology		female genital organs. to interpret information about the peculiarities of the

IV. INTERDISCIPLINARY INTEGRATION

Pathological anatomy of the person	- pathological changes in the body of a woman and a man, which lead to the pathology of the organs of the reproductive system and which can occur under the influence of medical preparations.	 to interpret information about pathological changes in organs of reproductive systems of female and male organism in infertility be able to provide information and macro- / microscopically characterize changes occurring in the genital organs under the negative influence of
		various medical preparations.
Pathological physiology with a course in clinical immunology	occur in a woman's body and disorders in the	t- to interpret information on the occurrence of disharmonious diseases and pathological changes in the genital organs, which had a
	medicines. - aspects of formation and functioning of a woman's immune system in normal and infertile conditions.	- be able to provide information on the impact of immunological mechanisms in the formation of hormonal
Microbiology	- features of infectious agents that cause STIs and their sensitivity to antibacterial drugs.	be able to interpret the role of infection in the occurrence of tubal- peritoneal form of female infertility and disorders of male reproductive function.
II. The following disc	iplines (which ensure the a	acquisition of knowledge):
Neonatology	Rehabilitation measures for newborns whose mothers were exposed to medications during pregnancy.	Be able to develop a set of rehabilitation measures to improve the health of newborns who have suffered a negative effect of medicines during intrauterine stay.

Possible early and late	Be able to recognize the	
	neurological symptoms and	
	disorders of psychological	
-	status that have arisen as a	
	result of infertility and the use	
•	of DHT, and to develop a	
-	_	
-	diagnostic measures for these	
0	pathological conditions.	
II. Intra-curricular integr		
- classification of	- by means of the given	
infertility forms	classification to specify	
- classification of	criteria of differential	
amenorrhea	diagnostics of various	
	disturbances of function of a	
	female reproductive system	
- algorithm for	- to demonstrate the	
examination of women	methodology of external and	
with infertility	internal gynecological	
	examination	
- the main criteria of	-Demonstrate the	
ultrasound diagnostics	possibilities of ultrasound	
	examination in the office of	
	functional diagnostics	
-main indications for	- to demonstrate the main	
hysteroscopic	steps in the hysteroscopic	
intervention	examination	
-main indications for	- to demonstrate the main	
hysterosalpingography	steps in the	
	hysterosalpingographic study	
	 classification of infertility forms classification of amenorrhea algorithm for examination of women with infertility the main criteria of ultrasound diagnostics main indications for hysteroscopic intervention main indications for 	

V. CONTENTS OF THE TOPIC: STRUCTURAL-LOGICAL SCHEME OF LESSON

Demographic crisis



Infertile marriage				
Male infertility	Female infertility			
1. Excretory infertility:	1. Female infertility associated with lack			
• excretory toxic	of ovulation			
• excretory obstruction	2. Female tubal infertility:			
2. Secretory infertility:	• associated with congenital			
• secretory-endocrine	abnormalities of the fallopian tubes			
• secretory-toxic	• tubular: obstruction, blockage, stenosis			
• discretionary	3. Female infertility of uterine origin:			
3. Immunological	• congenital anomaly of the uterus			
4. Psychogenic-sexual	• defect of implantation of an egg			
5. Idiopathic.	4. Female infertility of cervical origin			
	5. Female infertility related to male			
factors				

6. Female infertility of another nature	
(psychogenic-sexual)	
7. Female infertility is unclear	

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE LESSON:

면 The main stages of the lesson, their functions and content	Levels of	Methods of control and training	Methodological support materials	Time
	I. Prep	aratory stage		•
 Organization of classes Goal setting and motivation Control of the initial level of knowledge, skills, abilities: Relevance of the problem of infertility. Anatomy and physiology of female genital organs Organization of a system of medical care for patients with infertility in Ukraine. Classification infertility, the main etiological factors of pathology. The main neuroendocrine syndromes that can cause infertility. Methods of examination of patients with infertility. Stimulation of ovarian function. Ovarian hyperstimulation syndrome. Types of methods of assisted reproductive technologies, indications, contraindications, benefits. The main complications of 	Πα	Individual oral survey. Test control Level II. Solution of typical level II problems.	Magazine Methodical developments Questions for individual oral questioning. Level II test tasks. Typical level II tasks. Themed tables, posters, models; a selection of up-to-date literature on the issues under study; collection of results of instrumental methods of examination, results of laboratory examination.	

II. The main stage

Λ	Formation of professional	III	Drastical training	Algorithms for the
4.	Formation of professional		Practical training	e
	skills and competences:	α		formation of practical skills.
	1. Work in the family planning			Toolkit for a woman
	department, .women's			survey. Phantoms. Models.
	counseling.			Algorithms for the
	2. Conduct counseling to			formation of professional
	identify the causes and			skills and competences.
	determine the type of infertility.			Patients. Situational
	3. To master the methods of			atypical level III tasks.
	anamnesis, external and internal			
	genital examination.			
	4. Establish an algorithm for			
	examination of infertile married			
	couple.		Professional training	
	5. Consult and prepare patients		in solving atypical	
	before performing	III	clinical situations	
	hysterosalpingography,	α		
	endoscopic examination.	l ~		
	5. Evaluate and interpret the			
	results of the consultation and			
	provision.			
	6. Decide on infertility treatment			
	and adjust reproductive			
	technology as needed.			
		II	I. The final stage	· · · · · · · · · · · · · · · · · · ·
5.	Control and correction of	III	Individual	
	professional skills.	α	control of practical	Clinical examination results.
			skills and their	
			results.	Level III test tasks.
			Analysis and	Atypical level III tasks.
			evaluation of	
			clinical work results.	
			Test control	
			Level III.	
			The solutions are	Indicative map for
				independent work with
			atypical	-
	Summow of the losses		level III tasks.	literature.
	Summary of the lesson.			
6.	Homework.			
7				
7.				

VII. MATERIALS OF METHODICAL ENSURING

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. Give the definition of the term "barren marriage".

2. Identify the main factors for the development of infertility.

3. Define general provisions for counseling infertile couples.

4. Classification of infertility.

5. Determine the timing of the examination of infertile couples.

6. Identify the basic and additional methods of examination of infertile couples.

7. Define the term "assisted reproductive technologies.

8. Determine the amount of examination of the married couple before carrying out extracorporeal fertilization.

9. Features of pharmacodynamics of hormonal drugs used for induction of ovulation.

10. To determine the risk factors for the development of ovarian hyperstimulation syndrome, the principles of management of such patients.

11. Name the major complications of assisted reproductive technologies.

Test Control Materials (IIa)

A. Multiple Choice Test:

Assistive reproductive technologies include:

1. Extracorporeal fertilization

2. Hatching

- 3. semen donation
- 4. oocyte donation

5. donation of embryos
6. Surrogate motherhood
7. artificial insemination
B. Substitution test:
1. List four contraindications for extracorporeal fertilization (IVF):
1)
2)
3)
4)
2. List four groups of drugs that are used to induce superovulation:
1)
2)
3)
4)

- B. Test to establish the correct sequence
- 1. Set the correct sequence of extracorporeal fertilization steps?
- 1) Selection and examination of patients.
- 2) Follicular puncture.
- 3) Induction of superovulation.
- 4) Lutein phase support.
- 5) Oocyte insemination.
- 6) Cultivation of embryos.
- 7.) Transfer of embryos into the uterine cavity.
- 8.) Diagnosis of pregnancy.
- Typical Level II Tasks:

Task 1.

Support for the luteal phase of the stimulated menstrual cycle begins

Answers to choose from:

and. 24 hours after follicular puncture.

b. 48 hours after follicular puncture.

in. 72 hours after follicular puncture.

at the same time as the follicular puncture procedure.

Task 2.

Contraindications for IVF:

Answers to choose from:

a. submucosal uterine fibroids.

b. tube occlusion.

in. the presence of retentive ovarian cysts.

Problem 3.

The mandatory scope of a woman's examination for an IVF is:

Answers to choose from:

a. Basal temperature measurement.

b. Endometrial biopsy.

in. Antiphospholipid antibody screening.

7.2 Materials of methodological support for the main stage of the less№ p / pTasksSequence of implementationRemarks,			
		Sequence of implementation	about self-control
1.	Patient survey	Follow these stops:	
1.		Follow these steps:	The patient should be in
	(history)	1) Main complaints	a comfortable position
		2) Additional complaints	(sitting)
		3) Delayed somatic diseases	
		and surgical interventions	
		4) Menstrual, sexual and	
		reproductive function, nature	
		of contraception	
		5) Gynecological diseases,	
		sexually transmitted	
		infections and genital	
		surgery	
		6) Family history	
		7) History of the disease,	
		duration of infertility,	
		preliminary examination and	
		treatment	
		Follow these steps:	
		1) Variation of the physique	
	Overview	of a woman	
2.		2) The nature of the hair and	At horizontal
		the condition of the skin	position of the patient is
		3) Breast examination	possible the occurrence
		4) Belly examination	of the syndrome aorto-
		5) Palpation of the abdomen	forging compression.
		6) Percussion and	
		auscultation of the abdomen	
		Follow these steps:	
	Gynecological	1) Give the patient a	Emptied bladder and
	Review	horizontal position	rectum.
3.		2) Review of external	
~		genitalia	
		3) Research using	
		gynecological speculum	
		gynecological specululli	

7.2 Materials of methodological support for the main stage of the lesson

<u>№</u> р / р	Tasks	Sequence of implementation	Remarks, warning about self-control
		Bimanual vaginal	
		examination (abdominal-	
		vaginal, abdominal-rectal)	

7.3 Materials of control of the final stage of the class

Atypical Level III Task:

Task 1.

Determine the most informative method for assessing uterine patency. Give the rationale for your choice. Define a plan for preparation for manipulation:

- Hysterosalpingography.
- Pertubation.
- Ultrasound examination.
- Hysteroscopy.

Answer:

Task 2.

Which of the following hormones is appropriate to determine on the 5-7th day of your menstrual cycle:

- Prolactin.
- Testosterone.
- Dehydroepiandrosterone sulfate.
- Progesterone.
- Follicle-stimulating hormone.

Answer:

Problem 3.

Choose the most appropriate method of extracorporeal fertilization if the male:

• Oligozoospermia.

- available anti-sperm antibodies in the ejaculate.
- There has been poor fertilization in previous IVF attempts.

Give the rationale for your choice. Outline the basic principles of the method.

Answer:

Problem 4.

What are the conditions of ovulation stimulation?

Give the rationale for your choice. Define ovulation induction protocol and follow-up plan for patient monitoring.

Answer:

Task 5.

The main requirements for donor sperm are:

- volume of ejaculate more than 1 ml.
- the concentration of sperm in 1 ml of ejaculate is more than 20 million.
- the proportion of progressively mobile forms is more than 60%.
- the proportion of morphologically normal forms more than 60%.

Give the rationale for your choice. Identify basic requirements for sperm donors.

Answer:

Problem 6.

Choose indications for surgical receipt of sperm:

- Obstructive azoospermia.
- Teratozoospermia.
- Testicular insufficiency.

Give the rationale for your choice. Identify contraindications for the surgical receipt of sperm.

Answer:

Task 7.

Select basic requirements for professional oocyte donors:

- Age from 20 to 34 years.
- Having your own healthy baby.
- Presence of striking phenotypic features.

Give the rationale for your choice. What is the indication for IVF using donor oocytes.

Answer:

Problem 8.

What are the indications for IVF using donor embryos:

- Absence of oocytes.
- Adverse medical-genetic prognosis.
- Excretory infertility.
- Age 35 years.

Give the rationale for your choice. Determine the embryo donor examination plan.

Answer:

Task 9.

Select possible complications of artificial insemination:

- Shock reaction.
- Ectopic pregnancy.
- Acute inflammation of the female genital area.
- Ovarian hyperstimulation syndrome.

Give the rationale for your choice. Identify contraindications for artificial insemination.

Answer:

Problem 10.

Identify the indications for artificial insemination:

- Male infertility.
- Ejaculatory-sexual disorders.
- Absence of a sexual partner.
- Uterine occlusion.

Give the rationale for your choice. Determine the examination plan prior to the artificial insemination.

Answer:

7.4 Materials of methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational literature)

with educational literature)				
№ p / p	Training tasks	Instructions to the task		
1.	To analyze the demographic situation in	Identify current		
	Ukraine.	approaches to		
		overcoming the		
		demographic crisis in		
		Ukraine.		
2.	Determine the status of infertile marriage.	Analyze and summarize		
		the status of infertility		
		prevalence.		
3.	To draw conclusions from the analysis of	On the basis of the		
	modern literature on the effectiveness of	analysis of modern		
	different methods of extracorporeal	literature to make		
	fertilization.	conclusions about the		
		effectiveness of in vitro		
		fertilization.		
4.	To investigate the literature on the features of	Summarize the literature		
	pregnancy and pregnancy in infertile patients.	on the course and		
		management of		
		pregnancy in infertile		
		patients.		
5.	The role of evidence-based medicine in	Give an example of		
	overcoming infertility.	evidence-based		
		medicine in overcoming		
		infertility.		
6.	Deontological and psychological aspects of the	To know the		
	doctor in the management of patients with	deontological and		
	infertility.	psychological aspects of		
		the doctor in the		
		management of patients		
		with infertility.		

VIII. RECOMMENDED BOOKS

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Volume 3: Non-surgical gynecology / qty. ed .; in a row. Acad. NAMS of Ukraine, prof. V.M. It is blocked. - K .: VSV "Medicine", 2014. - 928 p.

3. Obstetrics and Gynecology. Tatarchuk TF, et al. Kiev: Medicine. - 2013.

3. Infertile marriage // Gynecology: a national guide / Ed. YOU. Kulakova, IB Manukhina, G.M. Savelyeva. - M .: GEOTAR-Media, 2011. - P. 581 - 628.

2. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K .: VSV Medicine, 2012. - 352 p.

3. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

1. Krasnopolskaya KV Clinical aspects of the treatment of infertility in marriage / K.V. Krasnopolskaya, T.A. Nazarenko // M .: GEOTAR-Media, 2014. - 376 p.

2. Nazarenko TA Auxiliary reproductive technologies // Infertile marriage. Modern approaches to diagnostics and treatment: a guide / Ed. G.T. Dry, TA Nazarenko. - 2nd ed. and ext. - M .: GEOTAR_Media, 2010. - P. 505 - 516.

3. Nazarenko TA, Mishieva NG Infertility and age: ways to solve the problem. - M .: MEDPress-inform, 2010. - 208 p.

4. SG Perminova, GV Ter-Avanesov Immunological infertility // Infertile marriage. Modern approaches to diagnostics and treatment: a guide / Ed. GT Sukhikh, T.A. Nazarenko. - 2nd ed. and ext. - M .: GEOTAR - Media, 2010. - P. 412 - 437.

5. Seagull VK Infertile marriage / V.K. Gull. - 2012. - Private enterprise "Lavis", Donetsk.

Additionally:

1. Adamovskaya TN Features of the management of patients with endometriosisassociated infertility / TN. Adamovskaya // Woman's health. - 2013. - P. 187 - 191. 2. Bozhedomov VA Etiology of autoimmune male infertility / VA Bozhedomov, MA Nikolaeva, IV Ushakova // Obstetrics and Gynecology. - 2013. - N2. - P. 68 - 77. Boychuk OG Predicting inefficiency of assisted reproductive technologies in women with infertility and liver pathology / Boychuk OG // Woman's health. - 2016. - N2 (110). - pp. 171 - 174.

3. Vasilyeva KV Influence of urogenital chlamydia infection in pregnant women on reproductive health / K.V. Vasilyeva. M.O. Dudchenko, IB Popova // Woman's health. - 2015. - No. 10 (106). - P. 166 - 168.

4. Yu.Vdovichenko Therapy of sexually transmitted infections in accordance with international standards / Yu.P. Widowichenko, E.N. Gopchuk // Woman's health. - N_{21} (77) - 2013. - P.105 - 109.

5. Yu.Vdovichenko Peculiarities of infertility and ovarian reserve status in women with autoimmune thyroid pathology / Yu.P. Widowichenko, D.Yu. Beraya // Woman's health. - No. 1 (77). - 2013. - P. 185 - 190.

6. Veropotvelyan PN A Practical Approach to the Management of Patients with Ovarian Hyperstimulation Syndrome / P.N. Veropotvelyan, IS Tsehmistrenko, NP Veropotvelyan // Medical aspects of women's health. - 2016. - №8 (105). - P. 42 - 52.

7. Vityuk A.D. A differentiated approach to the diagnosis of ovarian status in women with infertility in ovarian depletion syndrome / AD. Vityuk, R.G. Gafiychuk // Woman's health. - 2013. - $N_{2}4$ (80). - pp. 141 - 147.

8. Vityuk A.D. Reproductive function of women with thyroid pathology treated with assisted reproductive technology. Vityuk, OM Yuzko, T.A. Yuzko // The achievements of clinical and experimental medicine. - 2012. - №1. - P. 91 - 94.

9. Wolf IB Complex treatment of women with chronic recurrent genital herpes associated with sexually transmitted infections / IB Vovk, A.G. Kornatskaya, O.Yu., Borisyuk // Women's Health. - No. 4 (70). - 2012. - P. 9 - 14.

10. Galaktionova AM Restoration of clomiphene sensitivity by metformin therapy in patients with chronic anovulation / AM Galaktionova, KV Krasnopolskaya // Problems of reproduction. - 2011. - Vol. 17. - N_{25} . - pp. 42 - 45.

11. Galaktionova AM Optimization of the treatment of anovulatory infertility using metformin adjuvant therapy: Dis... Cand. - M., 2012. - 125 p.

12. SI Gamidov Tactics of conducting infertile men with varicocele: a comparative analysis of different treatment methods / SI. Gamidov, R.I. Ovchinnikov, A.Yu. Popova // Obstetrics and Gynecology. - 2013. - №2. - P. 77 - 84.

13. Gasparyan S.A. Endometriosis and fertility. The key points of treatment / S.A. Gasparyan, R.M. Ionova. OS Popova // Obstetrics, gynecology, reproduction. - 2015. - №4. - P. 66 - 72.

14. Gladchuk I.Z. Anovulatory infertility. Diagnostic approaches and management of patients / И.3. Gladchuk, N.M. Rozhkovskaya, OM Semnuta // With concern for Woman. - 2015. - №7 (64). - P. 22 - 24.

15. Gladchuk IZ Age peculiarities of uterine peristalsis in infertile women with adenomyosis, uterine fibroids and their combination / Gladchuk I.Z., Rozhkovskaya N.N., Garbuzenko N.D., Stamova N.A. // Women's health. - 2016. - №3 (109). - P. 149 - 152.

16.Grischenko NG Modern aspects of prevention of ovarian hyperstimulation syndrome / NG. Grischenko // International Medical Journal. - 2013. - №1 (73). - P. 67 - 74.

17. Dubnitskaya LV Tubal-peritoneal infertility / L.V. Dubnitskaya, A.A. Alekseenko // Infertile marriage. Modern approaches to diagnostics and treatment: a guide / Ed. G.T. Dry, TA Nazarenko. 2nd Upt. and ext. - M .: GEOTAR-Media, 2010. - P. 96 - 113.

18. Dubchak A.E. The causes of surgical treatment of uterine appendages and its consequences in women with infertility / AE. Dubchak, A.V. Milevsky, N.N. Lunch // Woman's health. - 2018. - №2 (128). - P. 100 - 102.

19.Kozub NI Ethiopathogenetic approaches to differentiated treatment and recovery of reproductive function in polycystic ovary syndrome / NI. Kozub, M.P. Falcon // International Medical Journal. - 2013. - №1 (73). - pp. 74 - 78.

20. Korneeva IE The general concept of diagnostics and classification of forms of infertility // Infertile marriage. Modern approaches to diagnostics and treatment: a guide / Ed. G.T. Dry, TA Nazarenko. - 2nd ed. dispatch and ext. - M .: GEOTAR-Media, 2010. - P. 21 - 52.

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22. Pitko VA The effectiveness of new approaches in the diagnosis and treatment of poor ovarian response syndrome / V.A. Pitko, OA Loginova, A.I. Tkachev // Women's Health. - 2013. - № 4 (80). - P. 107 - 109.

23. Sold by TA Results of controlled ovulation stimulation in oocyte donation programs / T.A. Prodan, N.A. Dankovich, OM Babenko // Woman's health. - 2018. - №1 (127). - P. 77 - 79.

24. Prevention of reproductive health disorders in pregnant women with TORCH infection / ST. Scientific works. Association of Obstetricians-Gynecologists of Ukraine. - K .: Phoenix, 2011. - P. 159 - 161.

25. Effectiveness of controlled ovulation stimulation in women with reduced ovarian reserve / T.A. Prodan, NO Dankovich, OM Babenko // Woman's health. - 2018. - N_{\odot} 5 (131). - P. 45 - 47.

26. Reproductive Health and Thyroid Dysfunction / SO Shurpyak, V.I. Pirogov, M.Y. Malachynskaya, V.V. Gerasimenko // Woman's health. - №5 (131). - 2018. - P. 15 - 19.

27. Rudakova EB Diagnosis of intrauterine pathology in preparation for extracorporeal fertilization / EB Rudakova, PV Davylov, V.V. Davydov // The attending physician. - 2015. - №1. - pp. 83 - 86.

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29. Strelko GV Medical benefits of controlled ovarian stimulation using gonadotropin-releasing hormone antagonists and corifollitropin alfa in ECO clinics in poor responders / GV. Arrow // Woman's health. - 2018. - №3 (129). - P. 39 - 45.

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31. Sulima G.M. Estimation of efficiency of endosurgical uterine tube plasticity in restoration of reproductive function in patients with pelvic peritoneal adhesions and infertility / GM. Sulima // Women's Health. - 2107. - N_{2} 6 (72.). - 2012. - P. 186 - 188.

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34. Tatarchuk TF Treatment of stress-induced insufficiency of the luteal phase / Tatarchuk TF, Kossey NV, Tutchenko TN // Woman's health. - 2016. - N_{23} (109). - P. 18 - 23.

35. Tolstanova G.O. Endometrial pathology in women with unrealized reproductive function: diagnosis and tactics of infertility treatment / G.O. Tolstanova // Woman's health. - 2018. - N_{2} 5 (131). - P. 108 - 110.

36. Farhat A.G. Treatment of anovulatory infertility in women with polycystic ovary syndrome / AG. Farhat // Woman's health. - No. 1 (77). - 2013. - P. 182 - 185.

37. Shcherbakova LN Ovarian hyperstimulation syndrome in in vitro fertilization program. Clinical course and reproductive loss: Dis... Ph.D. - M., 2010. - 157 p.

38. Order of the Ministry of Health of Ukraine of 15.12.2003 No. 582 "On approval of clinical protocols on obstetric and gynecological care".

FAMILY PLANNING

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE THEME (UPDATE):

According to world statistics, 185 million pregnancies occur annually in the world, of which 75 million are unwanted and 45 million result in artificial abortion (according to UNESCO). World experience shows that the use of modern contraceptive methods as a means of preventing unwanted pregnancy leads to a decrease in the frequency of artificial and illegal abortions, which allows to reduce maternal mortality by 25-50%.

Family planning (PS) is a set of medical and social measures aimed at reducing the incidence, maintaining the health of women and adolescent children, preventing unwanted pregnancy, ensuring optimal intervals between childbirth, the number of children in the family, preventing premature births. , late, frequent births, prevention of sexually transmitted infections (STIs), AIDS.

Contraception is one of the components of the PS system - prevention of unplanned pregnancy. In 1990, a Global Forum on Environmental Development Issues for Survival was held, which noted that early, frequent, and late births should be considered as three major factors that significantly increase maternal and infant mortality. It was also decided to include PS in the number of environmental factors that ensure family health.

Research on fertility regulation has revealed the relationship between a woman's reproductive behavior and her state of health. Previously, the choice of woman was limited to the right to abortion, but today it includes the right to contraception, the right to pregnancy and the right to voluntary surgical sterilization. Analysis of the etiology of contraception and abortion showed that at present in Ukraine the attitude to modern methods of contraception, especially hormonal, remains wary. The end of XX century. distinguished by the development and widespread use of modern contraceptive technologies (hormonal contraception, intra-uterine agents, surgical sterilization, etc.). These agents are reliable and safe for most women, provided they are properly used, and there are no pathological conditions in the body. At the same time, their use implies the need for medical control and individual selection.

When selecting a contraceptive, the medical professional and the patient assume that the method should be effective and easy to use, and the potential risk of complications should be minimized. The birth control effect should be temporary so that the reproductive function can be restored at the user's request. In this case, the physiology of sexual intercourse should not be disturbed and negative emotions should arise. The method can also have a non-contraceptive effect on the health of the user (normalization of hormonal disorders, STI prevention, etc.). And another important condition - the method should be affordable (reasonable price, available for sale).

In Ukraine, the consequences and complications of unwanted and unplanned pregnancy, especially in women at risk of unplanned pregnancy, are unfavorable. An important role in improving reproductive health belongs to the family planning service, whose main activity is to preserve and improve health by preventing unwanted pregnancies, as well as reducing pregnancy among high-risk women, reducing morbidity and mortality.

Every year, the number of women who use intrauterine and oral contraceptives increases. But there are still many couples using methods such as natural barriers. These methods are not reliable. Therefore, the possibility of having an unwanted pregnancy in women is still very high.

The main reasons for the high number of abortions in Ukraine are: low level of awareness of the population, relatively high price of hormonal and intrauterine contraceptives, lack of responsible behaviors in sexual relations among the population, especially among young people.

The risk of pregnancy resulting from a single unprotected sexual act is relatively high and is 33% depending on the day of the cycle. Unwanted pregnancy often leads to dangerous abortions and is associated with a very high risk of morbidity. Infertility, miscarriages and inflammatory diseases of the pelvic organs are the result of a large number of abortions and a lack of education in reproductive health. For example, 60-80% of women suffer from secondary infertility after abortion. Increasing public awareness and accessibility to contraceptive methods can reduce the number of unwanted pregnancies and abortions.

II. Educational goals of the lesson

2.1 The student should know (α -II):

• relevance and necessity of prevention of unwanted pregnancy and breast diseases in the framework of family planning services;

- anatomy and physiology of the genitals and mammary glands;
- major risk factors for breast disease, their relationship to family planning issues;
- method of examination of genitals and mammary glands;

- the main symptoms of breast diseases;
- contraceptive methods that help reduce the risk of breast disease;
- principles of breast self-examination when using contraceptive methods;
- advantages and disadvantages of all contraceptives;
- features of adolescent contraceptive use;
- features of the application of contraception after delivery;
- features of the use of contraception after abortion.
- 2.2 The student must be able to (α -III)

To master the skills:

• collecting a general and special medical history for women who plan to use contraceptives;

• identification of risk factors for the development of pathological reactions in women with breast and somatic diseases prior to contraceptive use;

• substantiation of urgency and necessity of prevention of breast diseases in the framework of providing family planning services;

- examination of the genitals and mammary glands;
- evaluation of the main side effects of combined oral contraceptives;
- evaluation of the main side effects of using purely progestin oral contraceptives;
- evaluation of the main side effects of intrauterine contraception;
- assessing the main side effects of using contraceptive barriers;
- selection of postpartum contraception;
- counseling on post-abortion contraception;
- risk assessment when using natural contraceptives.

To master the technique:

- conducting gynecological examination of female genital organs;
- breast examination and palpation;
- teaching women the principles of breast self-examination;

- counseling on various contraceptive methods;
- manipulation of DMPA injection;
- introduction of IUD;
- removal of IUD;
- the use of barrier methods of contraception (male condom);
- Emergency contraception counseling;
- technique for determining fertile days;
- counseling on lactation amenorrhea.

To master the skills:

• on the administration of contraceptives after delivery, taking into account the condition of the breast and somatic diseases;

• on the administration of contraceptives after abortion, taking into account the condition of the breast and somatic diseases;

• substantiate the urgency and need for prevention of breast diseases in the framework of family planning services;

• describe the relationship between major risk factors for breast disease and family planning issues;

• to evaluate the main side effects of different methods of contraception;

• selection of contraceptive methods that reduce the risk of breast disease and any side effects;

• justify the urgency and necessity of postpartum contraception;

• justify the urgency and necessity of post-abortion contraception.

III. PERSONAL DEVELOPMENT GOALS

(EDUCATIONAL PURPOSE)

To educate students about the importance of preventing unwanted pregnancy and family planning among women of all ages and, above all, adolescents and students. Pay particular attention to the problem of preventing unwanted pregnancy and family planning for women with breast pathology and somatic diseases. Interest students in the detailed study of material on the problem of preventing unwanted pregnancy and family planning for the prevention of HIV and sexually transmitted infection. Enhance understanding of women's deontology and medical ethics in family planning counseling. To develop in students a sense of professional responsibility for their own actions, the fate of women before prescribing any medicines. Master the ability to make psychological contact with women of different age groups.

In order to strengthen the self-awareness, to focus students' attention on the role of domestic scientists in studying the problem of prevention of unwanted pregnancy and family planning.

	IV. INTERDISCIFLINARI INTEGRATION			
Discipline / Topics	Know	Be able		
I. Previous disciplines (providing):				
History of medicine	Contribution of domestic and foreign scientists to: - study of breast anatomy and physiology; - study of the problem of prevention of morbidity and mortality of women from breast pathology.	 Explain the contribution of scientists, especially domestic scientists, to the study of various aspects of breast pathology, prevention of unwanted pregnancy and family planning. be able to give examples of outstanding domestic scientists and their outstanding scientific achievements in solving this problem. 		
Normal Human anatomy	breast anatomy.anatomy of female genital organs.	- interpret information about the anatomical structure of the mammary glands and genitals.		

IV. INTERDISCIPLINARY INTEGRATION

Histology and embryology	- morphofunctional	- to interpret information				
instology and emoryology	features of the female	about the peculiarities of the				
		1				
	•	morphofunctional state of the				
	of development of the	female body in different				
	fertile egg.	periods of pregnancy				
- ·	- pathological changes	- to interpret information				
the person	in the body of a woman,	about pathological changes				
	which lead to pathology	in a woman's body and their				
	of the mammary glands	relation to pathology of				
	and genitals.	mammary glands and				
	- pathological changes	genitals.				
	in the mammary glands	- be able to provide				
	and genitals that can	information and macro- /				
	occur under the	microscopically characterize				
	influence of	changes occurring in the				
	medications.	breast and genitals under the				
		influence of various				
		medications.				
Pathological physiology	- pathological changes	- to interpret information on				
	occurring in the body of a	-				
immunology		disharmonious diseases and				
		pathological changes in				
		breasts in women who have				
	-	had a negative impact of				
		medications.				
	- aspects of formation and					
	-	information on the impact of				
	Ũ	immunological mechanisms in				
	-	the formation of				
	hormonal drugs.	disharmonious diseases and				
Microbiology	-features of infectious	- be able to interpret the role				
	•	of infection in the origin of				
	their sensitivity to	genital diseases.				
	antibacterial drugs.					
Nacratelegy Pahabilitation measures Pa able to develop a set of						
---	--	--------------------------------	--	--	--	--
Neonatology	Rehabilitation measures	Be able to develop a set of				
	for newborn girls and	rehabilitation measures to				
	first-year girls whose	improve the health of girls				
	mothers were exposed to	who have suffered a negative				
	medication during effect of medication d					
	pregnancy.	intrauterine stay.				
Neurology	Possible early and late	Be able to recognize the				
	neurological symptoms in	neurological symptoms that				
	women resulting from	have arisen from breast and				
	abortion and pathology of	post-abortion pathology, and				
	the mammary gland, and	to develop a complex of				
	methods for their early	medical and diagnostic				
	diagnosis and treatment.	measures for these				
	III. Intra-curricular integr	ation:				
Differential diagnosis	- classification of causes	- by means of the given				
of various disorders of	of infertility	classification to specify				
the function of the	- classification of	criteria of differential				
female reproductive	amenorrhea	diagnostics of various				
system		disturbances of function of a				
		female reproductive system				
Principles of	- algorithm for	- to demonstrate the method				
examination of women	examination of women	of conducting external and				
with infertility	with infertility	internal gynecological				
		examination				
Ultrasound in the	- the main criteria of	-demonstrate the possibilities				
diagnosis of infertility	ultrasound diagnostics	of ultrasound examination in				
		the office of functional				
		diagnostics				

Hysteroscopy as a	-main indications for	- to demonstrate the main		
method of diagnosis	hysteroscopic	steps in the hysteroscopic		
and treatment of	intervention	examination		
various disorders of the				
female reproductive				
system				

V. CONTENTS OF THE TOPIC: STRUCTURAL-LOGICAL SCHEME OF LESSON

Demographic crisis





*-If pregnancy test is positive, provide options counseling.

+—Because hormonal emergency contraception is not 100 percent effective, urine pregnancy test should be performed two weeks after emergency contraception use.

Nº p / n	The main stages of the lesson, their functions and content	at .	Methods of control and training	Methodological support materials	Time min.				
	I. Preparatory stage								
1.	Organization of classes Goal setting and motivation	Πα	Individual oral survey. Test control Level II. Solution of typical level II problems.	Magazine Methodical developments Questions for individual oral questioning. Level II test tasks. Typical level II tasks. Themed tables, posters, models; a selection of					
3.	Control of the initial level of knowledge, skills, abilities: 1. Relevance and necessity of prevention of unwanted pregnancy and breast diseases in the framework of family planning services. 2. Anatomy and physiology of genitals and mammary glands. 3. The main risk factors for breast disease, their relationship to family planning issues. 4. Methods of examination of genitals and mammary glands. 5. The main side effects of contraceptives. 6. Contraceptive methods that reduce the risk of breast disease. 7. Principles of breast self- examination while using contraceptive methods. 8. Advantages and			up-to-date literature on the issues under study; collection of results of instrumental methods of examination, results of laboratory examination.					

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE LESSON:

		II.	The main stage	
4.	Formation of professional skills and competences: 1. Work in women's counseling, pregnancy pathology department, family planning department. 2. Master the methods of anamnesis, external and internal genital examination. 3. Consult with family planning. 4. Evaluate and interpret the results of the consultation. 5. Have postpartum and postpartum family planning counseling. 6. Consult with family planning for women with breast pathology.	ΙΠ α	Professional training in solving atypical clinical situations	Algorithms for the formation of practical skills. Toolkit for a woman survey. Phantoms. Models. Algorithms for the formation of professional skills and competences. Patients. Situational atypical level III tasks.
		III	. The final stage	
5.	Control and correction of professional skills.	III α	Individual control of practical skills and their results. Analysis and evaluation of clinical work results. Test control Level III. The solutions are atypical level III tasks.	Clinical examination results. Level III test tasks. Atypical level III tasks.
6.	Summary of the lesson. Homework.			Indicative map for independent work with literature.

VII. MATERIALS OF METHODICAL ENSURING

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. Define the term "family planning".

2. To define the term "contraception".

3. Define general provisions for post-natal family planning counseling.

4. Define general guidelines for post-abortion family planning counseling.

5. Define general provisions for adolescent family planning counseling.

6. Define general provisions for counseling on family planning for men.

7. Define general provisions for counseling on family planning for women with extragenital diseases.

8. Define general advice on family planning counseling for women with breast diseases.

9. Features of pharmacodynamics of hormonal contraceptives.

10. To define principles of selection of hormonal preparations for contraception.

11. To name modern and perspective methods of contraception.

Test Control Materials (IIa)

A. Multiple Choice Test:

Condoms do not protect against:

1. pregnancy

- 2. hepatitis A
- 3. hepatitis B
- 4. STI
- 5. Hepatitis C.

6. tuberculosis
7. Chlamydia
8. mycoplasmosis
9. Herpes simplex virus
10. human papilloma virus
11. Toxoplasmosis

B. Addition test:

1. List two mandatory provisions for breast palpation:

1)

2)

2. List three breast palpation techniques:

1)

2)

3)

B. Test to establish the correct sequence

1. Establish the correct sequence of pathogens that require examination and treatment of both partners?

1) Trichomonas.

2) Candida.

3) β -streptococcus.

4) Herpes simplex virus.

5) Dederlein's wand.

6) Human papilloma virus.

7.) Cytomegalovirus.

8.) Mycoplasma.

9.) Toxoplasma.

10) HIV.

11) Tuberculosis.

Typical Level II Tasks:

Task 1.

Which of the following is incorrect in relation to human papillomavirus (HPV) infection?

Answers to choose from:

1) HPV (type 16 and 18) increases the risk of cervical cancer.

2) Sexual intercourse is the only way of infection.

3) Coylocytes are pathognomonic for this infection.

4) HPV causes warts

5) The affected areas in the presence of acetic acid become white and clearly visualized during colposcopy.

Task 2.

The method of lactational amenorrhea (MLA) reliably protects a woman from pregnancy.

a. Until she has 2 menstrual cycles.

b. During the first 2 months after delivery in the absence of menstruation.

in. During the first 2-3 months after the mother begins to feed the baby extra food.

Problem 3.

Progestogen contraceptives cannot be used in the next category of women

Answers to choose from:

a. Women suffering from breast cancer.

b. Breastfeeding women.

in. Women suffering from side effects caused by taking COCs.

d. Women over 35 years.

<u>№</u> p / p	Tasks	lological support for the main standard Sequence of implementation	Remarks, warning
			about self-control
1.	Patient survey	Follow these steps:	The patient should be in
	(history)	1) Main complaints	a comfortable position
		2) Additional complaints	(sitting)
		3) Delayed somatic diseases and	
		surgical interventions	
		4) Menstrual, sexual and	
		reproductive function, nature of	
		contraception	
		5) Gynecological diseases and	
		genital surgery	
		6) Family history	
		7) History of the disease	
		Follow these steps:	
		1) Variation of the physique of	
		a woman	
	Overview	2) The nature of the hair and the	
2.		condition of the skin	At horizontal position of
		3) Breast examination	the patient is possible
		4) Belly examination	the occurrence of the
		5) Palpation of the abdomen	syndrome aorto-forging
		6) Percussion and auscultation	compression.
		of the abdomen	
		Follow these steps:	
		1) Give the patient a horizontal	
	Gynecological	position	Emptied bladder and
	Review	2) Review of external genitalia	rectum.
3.		3) Research using gynecological speculum	
		4) Bimanual vaginal	
		examination (abdominal-	
		vaginal, abdominal-rectal)	

7.2 Materials of methodological support for the main stage of the lesson

7.3 Materials of control of the final stage of the class

Atypical Level III Task:

Task 1.

Choose acceptable methods of contraception for a teenager if she is having sex. Give the rationale for your choice. Define a patient monitoring plan.

- Regularly with 1 partner.
- Regularly, but with more than 1 partner.
- Irregular with 1 partner.
- Irregular with more than 1 partner.

Answer:

Task 2.

Choose acceptable methods of contraception for a woman of reproductive age under 35 if the woman:

- Married, gave birth.
- Married, not giving birth.
- Single, has 1 partner.
- Not married, has many partners.

Answer:

Problem 3.

Choose acceptable methods of contraception for a woman over 35 if she:

- Has regular sexual life.
- has 1 partner.
- has several partners.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Problem 4.

Choose acceptable methods of contraception for a woman with a history of gynecology:

• Fibroids.

• Adenomyosis.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Task 5.

Choose acceptable methods of contraception for a woman after an abortion performed in:

- 1st trimester.
- 2nd trimester.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Problem 6.

Choose acceptable methods of contraception for a woman after childbirth if the woman:

- Practices breastfeeding.
- Does not breastfeed.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Task 7.

Choose acceptable methods of contraception for an HIV-infected woman if she:

- - married, not giving birth, husband is HIV-negative.
- - married, not giving birth, husband HIV positive.
- - married, not giving birth, husband is HIV-negative.
- - married, not giving birth, husband HIV positive.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Problem 8.

Choose acceptable methods of contraception for a woman who has a difficult somatic history:

- Smoking.
- Pathology of the cardiovascular system.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Task 9.

Choose acceptable methods of contraception for a woman of reproductive age up to 35 years, with a breast hormone disease if the woman:

- Married, gave birth.
- Married, not giving birth.
- Single, has 1 partner.
- Not married, has many partners.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

Task 9.

Choose acceptable methods of contraception for a woman of reproductive age over 35 if the woman:

- Married, gave birth.
- Married, not giving birth.
- Single, has 1 partner.
- Not married, has many partners.

Give the rationale for your choice. Define a patient monitoring plan.

Answer:

7.4 Materials of methodological support of students 'self-preparation (indicative map for organizing students' independent work with educational literature)

with educational literature)						
<u>№</u> p / p	Training tasks	Instructions to the task				
1.	To analyze the demographic situation in	Identify current				
	Ukraine.	approaches to				
		overcoming the				
		demographic crisis in				
		Ukraine.				
2.	To determine the state of affairs regarding the	Analyze and summarize				
	effectiveness of modern contraception.	the state of play				
		regarding the				
		effectiveness of various				
		methods of				
		contraception.				
3.	Draw conclusions from the analysis of the	On the basis of the				
	current literature on the effectiveness of	analysis of modern				
	various methods of hormonal contraception.	literature to make				
		conclusions about the				
		effectiveness of				
		hormonal contraception.				
4.	Investigate women's post-abortion health status	Summarize the literature				
	from literature.	on women's post-				
		abortion health.				
5.	The role of evidence-based medicine in family	Give an example of				
	planning.	evidence-based				
		medicine in family				
		planning.				
б.	Deontological and psychological aspects of the	Know the deontological				
	doctor when using contraceptive methods.	and psychological				
		aspects of the doctor				
		when prescribed				
		contraceptive methods.				
		*				

VIII. LITERATURE

a) Educational.

Basic:

Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology.
 - 2nd ed. - 2018. - 352 p.

2. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K .: VSV Medicine, 2012. - 352 p.

3. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Volume 3: Non-surgical gynecology / qty. ed .; in a row. Acad. NAMS of Ukraine, prof. V.M. It is blocked. - K .: VSV "Medicine", 2014. - 928 p.

4. Obstetrics and Gynecology. Tatarchuk TF, et al. Kiev: Medicine. - 2013.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Yu.Vdovichenko Pharmaceutical care when using contraceptives Tutorial. Kyiv, 2010. - 176 p.

2. Veal N.Ya. Vovk IB Family Planning. Tutorial. Kyiv, 2006. - 155p.

3. Medical eligibility criteria for contraceptive use. Third edition, 2004. World Health Organization. Trans. from English. - K .: Morion, 2006. - 264s.

4. Postpartum and postpartum family planning. Tutorial. Kyiv, 2007. - 195 p.

5. Tatarchuk TF, Solsky YP Endocrine gynecology (clinical essays). - K .: Testament, 2003. - 304 p.

6. Atlas of ultrasound diagnostics in obstetrics and gynecology. Dubile P., Benson K.B. 2009 Publisher: MEDPress-inform.

7. Gynecology. Illustrated clinical guide. Hart JM, Norman J. 2009 Publisher: Binom.

8. Outpatient care in gynecology / ed. V.A. Beniuk // Gynecologist doctor's guide. - 2nd ed., Suppl. - K .: Publishing House "Health of Ukraine", 2010. - 462 p. - (The series "Library" Health of Ukraine ").

9. A guide to practical skills in gynecology, obstetrics and

neonatology / Ed. prof. AND I. Senchuk. - K .: Hydromax, 2006. -

368s.

b) Methodical.

1. Kazakov VM, Vitenko IS, Talaenko OM, Kamenetsky MS, Pervak MB, Kotlubey OV Development of methodological guidelines for students of higher medical educational establishments in accordance with modern state standards and principles of the Bologna process (Methodical recommendations for teachers of higher medical educational establishments of IY accreditation level): Kyiv-Donetsk: CMKMOZ of Ukraine, 2005.-158 p.

2. Miller VE Methodical bases of preparation and carrying out of educational employment in medical universities (manual): - Kyiv, Khreschatyk, 2006. - 80 p.

CURACY OF PATIENTS, PREPARATION OF TRAINING HISTORY OF DISEASE. PROTECTION OF EDUCATIONAL HISTORY OF DISEASE. TEST CONTROL

I. SCIENTIFIC AND METHODICAL RATIONALE OF THE THEME (UPDATE):

Patient curation, writing a medical history and protecting medical history are an important component of comprehensive, practically oriented training of medical faculty students, as well as a more thorough assessment of students' level of overall module control. When selecting patients for student supervision, particular attention is paid to the issue of compliance of the clinical diagnosis with the thematic plan of practical sessions on Module 3 "Diseases of female genital organs". The supervision of gynecological patients and the writing of the medical history aims to consolidate the basic practical skills in the discipline, namely the correct collection of anamnestic data and complaints of the patient, conducting external and internal gynecological research, taking material for bacterioscopic and cytomorphological examination, conducting cevicoscopic examination evaluation of laboratory and additional research methods, etc. An important component is the presence (sometimes participation as an assistant) of students during surgery in a patient who is in his supervision. Writing a medical history, and publicly defending it publicly, contributes to the consolidation of knowledge and the development of reasoning skills for their clinical findings, issues of differential diagnosis, justification of the final clinical diagnosis and the chosen tactics of patient management. There is a sense of conscious understanding of the need to take the right organizational and diagnostic measures, to carry out qualified treatment.

Carrying out a comprehensive summary module module, which includes writing tests, testing practical skills and oral interviews, is a summary part of the cycle and allows you to objectively evaluate the level of preparation of the student on the results of the cycle.

II. LEARNING OBJECTIVES:

- 2.1 The student should know (α -II):
- 1. Clinical anatomy and physiology of female genital organs.
- 2. Special gynecological history.
- 3. General and special methods of examination of gynecological patients.

4. The main special methods of examination in gynecology: examination of the external genitals, speculum examination, bimanual examination.

5. Additional special methods of examination in gynecology.

6. Methods of functional diagnostics of the condition of the ovaries.

7. Laboratory methods of research in gynecology: microscopy of urogenital secretions, oncocytology, bacteriological studies, PCR, ELISA, pathomorphological studies.

8. Instrumental methods of examination in gynecology: probing of the uterine cavity, scraping the walls of the uterine cavity and cervical canal, biopsy, puncture of the abdominal cavity through the posterior arch.

9. Endoscopic methods of research in gynecology: colposcopy, hysteroscopy, laparoscopy.

10. Radiation research methods in gynecology: MPT, CT, MSH.

11. Ultrasound methods of research in gynecology: transvaginal and transabdominal ultrasound examination.

12. General symptomatology of gynecological diseases.

13. Classification of disorders of the functions of the organs of the reproductive system (menstrual function).

14. Amenorrhea: classification, diagnosis, tactics of general practitioners in amenorrhea.

15. Abnormal uterine bleeding: classification

16. Dysmenorrhea: etiology, classification, clinic, diagnosis, treatment.

17. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, Sheehan syndrome, hyperprolactinemia, hyperandrogenia. Clinic, modern diagnostic methods, and principles of treatment.

18. The concept of cysts and tumors of the ovary.

19. Bartholin's cyst: clinic, diagnosis, complications, treatment.

20. Tumor formation of the ovaries: clinic, diagnosis, complications, treatment, tactics of a general practitioner.

21. Benign ovarian tumors (epithelial, pubic tumors, lipid-cell, germinogenic tumors) - clinic, diagnosis, complications, treatment, tactics of general practitioners.

22. Benign tumors of the uterus: clinic, diagnosis, complications, treatment, indications for surgical treatment, tactics of a general practitioner.

23. Endometriosis: etiology, pathogenesis, classification, clinic, diagnostics, modern methods of treatment, tactics of the general practitioner, methods of rehabilitation of reproductive function.

24. Background and precancerous diseases of the external genitals: etiology, classification, clinic, diagnosis, treatment.

25. Background and precancerous diseases of the cervix: etiology, classification, clinic, diagnosis, treatment.

26. Endometrial hyperplastic processes: etiology, pathogenesis, classification, diagnostics, treatment methods, GP

27. Prevention of background and precancerous diseases of female genital organs.

28. Malignant neoplasms of the external genitalia (vulvar cancer), vagina: classification, clinic, diagnosis, management tactics and treatment principles.

29. Cervical cancer: classification, clinic, diagnosis, management tactics and treatment principles.

30. Endometrial cancer: classification, clinic, diagnosis, management tactics and treatment principles.

31. Uterine sarcoma: classification, clinic, diagnosis, management and treatment principles.

32. Ovarian cancer: classification, clinic, diagnosis, management and treatment principles.

33. Uterine cancer: classification, clinic, diagnosis, management and treatment principles.

34. Trophoblastic diseases: classification, clinic, diagnosis, management and treatment principles.

35. The concept of microbiocinosis of the vagina.

36. Bacterial vaginosis: etiology, clinic, diagnosis, treatment.

37. Inflammatory diseases of female genital organs: classification, etiology, pathogenesis. Features of the course in different ages.

38. Inflammation of the external genitals and vagina (vulvitis, bartholinitis, vaginitis): clinic, diagnosis, treatment.

39. Inflammation of the internal genital organs (endocervicitis, endometritis, adnexitis, parametritis, pelvioperitonitis): clinic, diagnosis, treatment, tactics of a general practitioner.

40. Management of patients with purulent tubo-ovarian tumor, tactics of a general practitioner.

41. Indications for surgical treatment of inflammatory diseases of female genital organs.

42. Sexually transmitted diseases (trichomoniasis, gonorrhea, ureamyoplasmosis, chlamydia, viral lesions) General practitioner tactic in detecting sexually transmitted diseases.

43. Genital candidiasis: clinic, diagnosis, treatment.

44. Genital herpes: clinic, diagnosis, treatment.

45. Trichomoniasis: clinic, diagnosis, treatment.

46. Ureaplasmosis: clinic, diagnosis, treatment.

47. Chlamydia: clinic, diagnosis, treatment.

48. Gonorrhea: clinic, diagnosis, treatment.

49. Rehabilitation of women who have suffered inflammatory diseases of the female genital organs.

50. "Acute abdomen" in gynecology. Ectopic pregnant women

Clinic, diagnosis, GP tactics, first aid.

51. Ovarian apoplexia: clinic, diagnostics, GP, first aid.

52. Rupture of an ovarian tumor capsule: clinic, diagnostics, general practitioner tactics, first aid.

53. Tumor Torsion: Clinic, Diagnosis, General Practitioner Tactics, Emergency.

54. Breaking of purulent tubo-ovarian tumor: clinic, diagnostics, tactics of the GP, first aid.

55. Disorders of nutrition of the myomatous node: clinic, diagnostics, tactics of the GP, first aid.

56. Traumatic injuries of genitals: clinic, diagnostics, tactics of the GP, first aid. Preoperative preparation and postoperative management of gynecological patients, anesthesia during gynecological operations.

57. Rehabilitation after gynecological interventions.

58. Causes of female and male infertility. Forms of female infertility.

59. Examination of a married couple in infertile marriage.

60. Principles and methods of treatment of female infertility (hormonal, surgical, modern reproductive technologies).

61. Family planning counseling: directions, benefits, counseling process.

62. General information on contraceptive methods: COC, vaginal ring, contraceptive patch, PTP, injectable, IUD, barrier methods and spermicides, voluntary surgical sterilization, emergency contraception.

63. Methods of recognition of fertility, assessment of the patient.

64. A routine examination is required before deciding whether to use a specific method of contraception.

65. Family planning for people living with HIV.

1.2 The student must be able to (α -III):

To master the skills:

• collection of general and special medical history;

• to find out the patient's complaints, the time of their occurrence and their dynamics over time;

• general examination of the patient;

• conducting a special external gynecological examination, assessing the condition of the abdominal organs through the anterior abdominal wall (symptoms of peritoneal irritation);

- carry out examination with gynecological speculum;
- internal gynecological examination (abdominal-vaginal examination, abdominal-rectal);
- technique for collecting vaginal material to determine microflora;
- material sampling technique for cytomorphological research;
- method of stopping external bleeding with incomplete abortion.
- technique of fractional scraping of the uterine mucosa and cervical canal;
- technique of taking the material from the vagina for hormonal colpocytology;
- a technique for conducting a biopsy of the cervix;
- method of injection of medicinal substances (intramuscular, subcutaneous, intravenous streaming and drip);
- early termination of pregnancy;
- technique of probing of uterine cavity;

• method of taking material from the vagina and cervical canal for bacteriological examination.

III. PURPOSE OF PERSONAL DEVELOPMENT (EDUCATIONAL OBJECTIVE):

To educate students about the importance of the problem associated with the acquisition of practical skills in gynecological practice, especially which are essential when working as a general practitioner and in providing emergency gynecological care (acute uterine bleeding, acute abdominal syndrome, etc.). Pay particular attention to the correct, methodologically validated approach to communicating with gynecological patients during their supervision. To deepen students' understanding of the importance of medical ethics and deontology in

communication with patients with various gynecological pathologies. To continue developing students' sense of professional responsibility for their own actions and the fate of the patient. To master the ability to deepen psychological contact with the gynecological patient.

Pay particular attention to the importance of combining their theoretical background with the acquisition of practical knowledge, as a key to success in conducting and final module control, and subsequently in the work of a practitioner.

Discipline	To Know	To Be Able						
I. Previous disciplines (providing):								
History of medicine	- contribution of domestic and foreign scientists to study ethics and deontology issues in dealing with gynecological patients	- to consolidate the skills of correct, careful communication with gynecological patients in the collection of anamnesis and conducting a special						
Human anatomy and topographic anatomy	 structure of external genitals; structure of internal 	gynecological examination - to interpret information about the structure female genital organs, age differences of the genital						
	genitals	organs						
II. The	e following disciplines (prov	iding):						
Surgery, urology	- possible surgical nosologies that may manifest complaints and clinical manifestations that require differential diagnosis with gynecological diseases	- diagnose diseases and complications from related organs						
	. Intra-curricular integration							
Differential diagnosis of planned and urgent conditions in gynecology	• •	- specify the criteria for differential diagnosis of planned and urgent conditions in gynecology						
Principles of examination of women with gynecological diseases	examination of women	- demonstrate the methodology of external and internal gynecological examination						

IV. Interdisciplinary integration

		-the main medicines used
		in gynecological practice
Basic principles and	- principles and standards	-the main types of
standards of conservative	of conservative therapy of	gynecological operations
therapy and basic types of	gynecological pathology	
surgery for various	-main indications for	
gynecological pathology	surgery in gynecological	
	patients	

V. CONTENTS OF THE TOPIC:

STRUCTURAL-LOGICAL SCHEME

Zaporizhzhya STATE MEDICAL UNIVERSITY Department of Obstetrics and Gynecology SCHEME OF HISTORY OF DISEASE Zaporizhzhya STATE MEDICAL UNIVERSITY Department of Obstetrics and Gynecology

HeadDepartment _____

Teachergroups _____

HISTORY OF DISEASE

Fullname_____

CLINICAL DIAGNOSIS

main_____

complication of the underlying disease _____

concomitant_____

OPERATION (date, name)

Name student (s)	
Faculty course	
group	
Starting curation	
End of curation	

Zaporizhzhia, 2020

I. PASSPORT DATA

1. Last name, first name and patronymic	
2. Age of the patient	
3.Home Address	
4.Working place	
5. Position held	
6.Who is directed	
7.Date and time of hospitalization in the ward	_
8. Diagnosis of the institution that sent	
9. Diagnosis at hospitalization	
10. Clinical diagnosis (major, complication of underlying disease, concomitant)	

ANAMNESIS

Complaints of the patient during hospitalization in the ward. Separation of major and minor complaints, as well as their detail.

III. HISTORY OF THIS DISEASE

(ANAMNESIS MORBI)

Date of onset of the disease, how the disease started: acute or gradual; the onset of the symptoms of the disease from the outset, the symptoms that appeared first; symptoms that prevail now.

What the patient has to do with the disease are possible causes. How did the disease develop until the moment of treatment.

Diagnostic and therapeutic measures in different periods of illness. Data on previous diagnoses. What treatment was performed, how it affected the state of health. If

laboratory tests were performed, the results should be reported in this section of the medical history.

IV. HISTORY OF LIFE (ANAMNESIS VITAE)

1. Transferred diseases

What diseases have you suffered since childhood. Surgery, trauma, sexually transmitted diseases, viral hepatitis, tuberculosis, cancer, etc. Disability data.

Gynecological diseases were transferred, their course, what treatment was carried out.

2. Heredity

The health of the next of kin. The presence of relatives of cancer, diabetes, bronchial asthma, hypertension, coronary heart disease and other diseases with hereditary predisposition.

3. Allergic history

Allergic diseases (bronchial asthma, urticaria, eczema, etc.) have a history of the patient and close relatives. Drug intolerance. Pre-existing history of anaphylactic shock and quinque edema.

4. Hemotransfusion history

History of blood transfusions (year of blood transfusion, indications, complications). Donation.

5. Bad habits

Alcohol use. Smoking, from what age, the number of cigarettes smoked per day. Drug intake, frequency, regularity.

V. SPECIAL ANALYSIS

1.Menstrual function

The first menstrual period when established. The nature of menstruation, duration, intervals, regularity. Presence of pain before and during menstruation. Has the nature

of menstruation changed since the beginning of sexual life, after childbirth, abortion, gynecological diseases. Date of last menstruation.

2. Sexual function

The beginning of sexual life. The presence of pain during intercourse, their localization, bleeding. Marital status. Does it protect against pregnancy. The method of contraception and the duration of its use.

3. Childbearing function

After some time from the beginning of sexual life pregnancy came. Number of pregnancies, including childbirth, unauthorized and artifical abortions (course, complications). In case of infertility, if possible, establish the cause.

4. Secretarial function

The nature of vaginal discharge (color, odor, amount) when they appear and what their appearance is related to.

VI. OBJECTIVE SURVEY DATA

General overview of the patient

Overall condition: passable, moderate, severe, extremely severe. Situation of the patient: active, forced, passive.

State of consciousness: clear, darkened (stunning, obstructed, coma), arousal (euphoria, delirium, hallucinations).

Type of constitution: asthenic, normostenic, hyperstenic. Height, weight. Body temperature.

Skin: color, humidity, elasticity, the presence of rashes, postoperative scars, stretch marks, traces of cracks.

Soft tissue turgor: normal, reduced. Visible mucous membranes: color, humidity. Hair: female or male hair. Hirsutism.

Edema: symmetry, localization. Prudence.

Peripheral lymph nodes: morbidity, mobility.

Respiratory

Frequency, rhythm of respiratory movements. Type of breathing (chest, abdomen, mixed). Dyspnea.

Palpation of the chest. Lung percussion. Auscultation of the lungs: assessment of the strength and nature of respiratory noises over symmetrical areas of the lungs: a) vesicular respiration (weakened, intensified, rigid), b) bronchial respiration (infiltrative, compression, cavity). Additional respiratory noises (dry wheezing, wet wheezing, crepitus, pleural friction noise).

Cardiovascular system

Overview of the heart and large vessels. Heart throb. Pulsation of large arteries, jugular veins, carotid artery, positive venous pulse. Characteristics of the pulse on the radial arteries: frequency, rhythm, symmetry. Pulse deficit. Palpation of the heart area. Apex impulse, localization, width, strength. Percussion of the heart. Auscultation of the heart. Characteristics of heart tones. Determination of blood pressure on the brachial arteries.

Gastrointestinal tract

Oral examination. Tongue, color, humidity, plaque.

Examination of the abdomen: examination of the abdomen (in the patient's position standing and lying), shape (configuration), the presence of peristaltic waves. Participation of abdominal wall in respiratory movements. Post-operative and other scars, hernias. Palpation of the abdomen. Superficial tentative palpation, degree of tension of anterior abdominal wall, tenderness, symptom of Shchetkin-Blumberg. Detection of free fluid in the abdominal cavity (ascites, blood) by fluctuation and percussion.

Palpation of the intestine. Liver palpation: nature of the edge, texture, tenderness, changes in the surface.

Urinary system

Overview of the lumbar and supraorbital regions. Pasternatsky's symptom. Palpation and percussion of the suprapubic region.

VII. Gynecological examination data

Review of external genitals

The degree of development. Hair type (female, male). Enlargement of veins, glow of sexual gap, striations, ulcers, tumors, deformities. Lowering, vaginal walls, cervix, uterine body. Condition of posterior adhesions (scars after rupture of the perineum). The condition of the external opening of the urethra, paraurethral glands. Condition of the maiden float. The color of the vaginal pectoral.

Examination of the cervix in gynecological speculum

The size and shape of the cervix, the shape of the outer pharynx, the color of the mucosa, the nature of discharge the cervix. Changes in the cervix (scars, tears, bruises, erosions, polyps, warts, etc.).

Internal gynecological examination

Vagina, width of entrance, stretching, character of mucous (roughness, folding, smoothing). Condition of the vaults (free, short, protrusion, ripple, mucosal motility, tenderness). Cervix (size, shape, texture, surface).

Bimanual (vaginal-abdominal, two-handed) vaginal examination

Uterine body: position (anteflexio, retroflexion, anterposition, retroposition, etc.), size, shape, consistency, surface, sensitivity, ratio of length of cervix to body of uterus.

Condition of the additives (size, tenderness, presence of tumors, etc.), state of parametric fiber.

VIII. PREVIOUS DIAGNOSIS

It is based on anamnesis data and objective examination (justification). To do this, you must: identify the affected system; highlight the main, most pronounced features; group them into syndromes. Justify in detail each word presented before diagnosis.

IX. LABORATORY AND ADDITIONAL RESEARCH METHODS AND THEIR INTERPRETATION

A follow-up plan is formulated to confirm the previous diagnosis.

1. Laboratory research methods (determination of blood group and rhesus factor, blood test for syphilis, antibodies to HIV, total blood count, platelet count and determination of fibrinogen and fibrin monomers, general urine analysis, C-reactive protein (according to indications), procalcitonin level (as indicated), blood sugar, bacterioscopic analysis of discharge from 3 points (vagina, cervical canal, urethra), bacteriological examination of urine, blood and secretions from the cervical canal (as indicated), blood sugar of discharge for disappeared (total protein, creatinine, bilirubin, liver samples), oncocytology and colpocytology).

2. Consultations of related specialists (therapist, cardiologist, pulmonologist, nephrologist, endocrinologist and others).

X. DIFFERENTIAL DIAGNOSIS

When conducting differential diagnosis, they rely on the main symptoms that are revealed during the collection of anamnesis, objective and gynecological examination of the patient, as well as data from laboratory and additional methods of research. It is necessary to identify and analyze at least three diseases that manifest clinically similar complaints and symptoms, as well as the most relevant for differential diagnosis in this patient.

XI. CLINICAL DIAGNOSIS

Clinical diagnosis is based on the data of the previous diagnosis, the differential diagnosis and additional research methods. It is necessary to distinguish the underlying disease, complications directly related to it, and comorbidities that are not directly etiopathogenetic due to the underlying disease. When formulating a clinical final diagnosis should reflect the etiological and pathogenetic components of the disease, its morphological features, form, stage, stage of the disease, the functional state of the affected organs and systems, individual features of the disease.

XII. ETIOLOGY AND PATHOGENESIS OF BASIC DISEASE

The etiology and pathogenesis of the patient should be considered. It is necessary to understand what etiological factor could have caused the disease, what conditions contributed to its appearance, how the disease developed in the future, what pathophysiological processes, biochemical and morphological changes and in what sequence the patient appeared. In the analysis of etiology and pathogenesis it is necessary to use the data of modern educational and scientific literature (for the last 5 years).

XIII. FORECAST

The forecast is given for life, for health, for work.

XIV. TREATMENT

It is necessary to justify the prescription of drugs for a specific patient. To distinguish etiotropic, pathogenetic and symptomatic treatment.

Treatment should include:

- 1. Mode.
- 2. Nutrition (diet).
- 3. Medications.
- 4. Physiotherapy.

5. Surgical treatment (if available) with details of indications for surgery and the course of surgery.

XV. JOURNALS OF DISEASE

The diaries indicate complaints, general condition, blood pressure, heart rate, temperature, sleep, appetite. Language and abdominal examination data. Intestinal function, diuresis, nature of vaginal discharge. Post-operative wound condition (if any). Other changes occurring during the day.

XVI EPICRIES

The epicrisis must include information that allows you to make a diagnosis, prognosis, treatment, rehabilitation measures, recommendations.

XVII. REFERENCES

The sources of literature indicate the author, title, year of publication.

The temperature record with curves of the pulse, temperature, blood pressure must be added to the medical history.

<i>VI</i> .	PLAN AND ORGANIZATI	<u>ONAL S</u>	STRUCTURE OF	THE EMPLOYM	ENT:
	The main stages of the	f yn	Learning	Methodological	
d /	lesson, their functions and	Levels of assimilation	control methods	support	Time min
Nº p / p	content	vel mil		materials	ne 1
Ä		Le			Tin
	<u> </u> т				-
1		Prepar	atory stage		ج
1. 2.	Organization of classes		Individual	Methodical	5min.
Ζ.	Setting educational goals and motivation		oral questioning.	development	
					20min.
3.	Primary Teacher History	Πα		Sick.	2011111.
	Check.	1100		Case histories	
				Phantoms,	
				models, slides.	
	Ι	I. The r	nain stage		
4.	Protecting the educational	IIIα	Practical training	Algorithms for	50min.
	history of the disease		Analysis and	formation	
	1) checking the practical skills		evaluation	practical	
	near the bedside of the patient		results	skills. Patients.	
	who was supervised		clinical work.	Illnesses.	
	2) individual protection of the			Gynecological	
	school medical history in the			tools	
	presence and active			for examination	
	participation in the discussion			gynecological	
	of all students of the group			patient.	
				Phantoms.	
				Models.	
				Tests of Final	
5.	Writing tests and situational	IIIα		Modular Control	1hour
	tasks Final module control.				20min.
			Professional		
			training in		
			solution		
			tests of the final		
	<u> </u>		module control		
		1	final stage	T	20
6.	Verification of test tasks of the	IIΙα	Level III test	Level III test tasks.	20min.
	Module Final Control.		control.		
	Summarizing the cycle.				
7.	Summarizing the cycle.				5min.
<i>'</i> .					emm.

VI. PLAN AND ORGANIZATIONAL STRUCTURE OF THE EMPLOYMENT:

VIII. MATERIALS OF METHODICAL ENSURING

7.1. Control materials for the preparatory stage of the lesson.

Theoretical basics of mastering the topic:

1. Clinical anatomy and physiology of female genital organs.

2. General methods of examination of gynecological patients.

3. Basic special methods of examination in gynecology: examination of the external genitals, speculum examination, bimanual examination.

4. Additional special methods of examination in gynecology (laboratory, instrumental, endoscopic, radiation and ultrasonic methods of examination).

5. General symptomatology of gynecological diseases.

6. Classification of disorders of the functions of the organs of the reproductive system (menstrual function).

7. Amenorrhea: classification, diagnosis, tactics of a general practitioner in amenorrhea.

8. Abnormal uterine bleeding: PALM / COEIN classification.

9. Dysmenorrhea: etiology, classification, clinic, diagnosis, treatment.

10. Neuroendocrine syndromes in gynecology: premenstrual, menopausal, polycystic ovary syndrome, Sheehan syndrome, hyperprolactinemia, hyperandrogenia. Clinic, modern diagnostic methods, and principles of treatment.

11. The concept of cyst and ovarian tumors.

12. Cyst and abscess of the bartholin gland: clinic, diagnosis, complications, treatment.

13. Benign ovarian tumors (physiological, epithelial, pubic tumors, germinogenic tumors) - clinic, diagnostics, complications, treatment, tactics of general practitioners.

14. Uterine body leiomyoma: clinic, diagnosis, complications, treatment, indications for surgical treatment, tactics of a general practitioner.

15. Endometriosis: etiology, pathogenesis, classification, clinic, diagnostics, modern methods of treatment, tactics of a general practitioner, methods of rehabilitation of reproductive function.

16. Background and precancerous diseases of the external genitals: etiology, classification, clinic, diagnosis, treatment.

17. Background and precancerous diseases of the cervix: etiology, classification, clinic, diagnosis, treatment.

18. Hyperplastic processes of the endometrium: etiology, pathogenesis, classification, diagnosis, methods of treatment, tactics of general practitioners.

19. Malignant neoplasms of the external genitalia (vulvar cancer), vagina: classification, clinic, diagnostics, management tactics and treatment principles.

20. Cervical cancer: classification, clinic, diagnosis, management tactics and treatment principles.

21. Endometrial cancer: classification, clinic, diagnosis, management tactics and treatment principles.

22. Uterine sarcoma: classification, clinic, diagnosis, management and treatment principles.

23. Ovarian cancer: classification, clinic, diagnosis, management and treatment principles.

24. Uterine cancer: classification, clinic, diagnosis, management and treatment principles.

25. Trophoblastic diseases: classification, clinic, diagnosis, management and treatment principles.

26. The concept of microbiocinosis of the vagina.

27. Bacterial vaginosis: etiology, clinic, diagnosis, treatment.

28. Inflammatory diseases of female genital organs: classification, etiology, pathogenesis. Features of the course in different ages.

29. Inflammation of the external genitals and vagina (vulvitis, bartholinitis, vaginitis): clinic, diagnosis, treatment.

30. Inflammation of the internal genital organs (endocervicitis, endometritis, adnexitis, parametritis, pelvioperitonitis): clinic, diagnosis, treatment, tactics of a general practitioner.

31. Management of patients with purulent tubo-ovarian tumor, tactics of a general practitioner.

32. Indications for surgical treatment of inflammatory diseases of female genital organs.

33. Sexually transmitted diseases (candidiasis, herpes, trichomoniasis, gonorrhea, ureamyoplasmosis, chlamydia, viral lesions) General practitioner tactic in detecting sexually transmitted diseases.

34. Rehabilitation of women who have suffered inflammatory diseases of the female genital organs.

35. "Acute abdomen" in gynecology. Ectopic pregnancy: clinic, diagnostics, general practitioner tactics, first aid.

36. Ovarian apoplexia: clinic, diagnostics, GP, first aid.

37. Rupture of an ovarian tumor capsule: clinic, diagnostics, GPs, first aid.

38. Tumor Torsion: Clinic, Diagnosis, General Practitioner Tactics, Emergency.

39. Rupture of purulent tubo-ovarian tumor: clinic, diagnostics, tactics of general practitioner, first aid.

40. Disorders of the myomatous node: clinic, diagnostics, tactics of a GP, first aid.

41. Causes of female and male infertility. Forms of female infertility.

42. Examination of a married couple in infertile marriage.

43. Principles and methods of treatment of female infertility (hormonal, surgical, modern reproductive technologies).

44. Counseling on family planning: directions, benefits, counseling process.

45. General information about contraceptive methods: COC, vaginal elbow, contraceptive patch, PTP, injectable, IUD, barrier methods and spermicide, voluntary surgical sterilization, emergency contraception.

46. A routine examination is required before deciding whether to use a specific method of contraception.

47. Family planning for people living with HIV.

Materials (Sample Situational Tasks) for Final Test Control (IIα)

Situational problem 1.

The 55-year-old patient has been admitted to the gynecological hospital with complaints of minor bleeding from the genital tract over the last three months. Last menstruation was 3 years ago. Objective study draws attention to obesity 1-2 degrees, blood pressure - 160/100 mm Hg. Art. Bimanual: The cervix is shortened, the outer eye misses the tip of the finger. The body of the uterus is enlarged to 6-7 weeks of pregnancy, painless, mobile. The uterine appendages are not palpable. The vaginal discharge is bloody, small.

Question: 1) What previous (at hospitalization) diagnosis can be made? 2) What are the most likely causes of postmenopausal bleeding? 3) How large will the clinical diagnosis be?

Answer: 1) Menopause disorders. Abnormal uterine bleeding in the postmenopausal period.

2) Malignant neoplasms of the body of the uterus or cervix; uterine body leiomyoma; endometrial hyperplastic processes.

3) Ultrasound examination of the pelvic organs and abdomen (CT examination according to the testimony); cytological examination of the vaginal part of the cervix and cervical canal; colpocervicoscopic examination (target biopsy of the cervical poppy according to the testimony); hysteroresectoscopy (fractional scraping of the mucous membrane of the uterus).

Situational problem 2.

A 28-year-old woman with zero reproductive parity during menstruation experiences pain in the lower abdomen of a bursting nature, 2-3 days before menstruation, a woman notes the presence of dark blood ("chocolate"), slight vaginal discharge. A history of chronic adnexitis, 3 courses of anti-inflammatory therapy with no significant effect. In bimanual examination: the uterus body is slightly enlarged mainly in the anterior-posterior size, dense, sensitive, to the left of the uterus body is determined tumor formation of 7x7 cm in size of uneven consistency, sensitive at displacement, limited mobility.

Question: 1) What preliminary diagnosis can be made? 2) What scope of the examination will allow the clinical diagnosis to be verified? 3) What is the therapeutic tactic after confirming the clinical diagnosis?

Answer: 1) Genital endometriosis. Endometrioid cyst of the left ovary.

2) Ultrasound examination of pelvic organs (MRI examination of pelvic organs); determination of blood tumor markers (CA-125, NOT 4, ROMA index); fibrogastroduodenoscopy and fibrocolonoscopy); diagnostic laparoscopy (with possible expansion of the volume of intervention to cystectomy of the left ovary).

3) When confirming the diagnosis of genital endometriosis, a combination of organsaving surgery and hormonal therapy.

VIII. RECOMMENDED BOOKS

Basic:

1. Obstetrics & gynecology : textbook / V. I. Gryshchenko [et al.] ; ed. by.: V. I. Gryshchenko, M. O. Shcherbina. - Kyiv : AUS Medicine Publ. - Vol. 2 : Gynecology. - 2nd ed. - 2018. - 352 p.

2. Obstetrics and Gynecology: Workshop / VK Likhachev [et al.]; Ministry of Health of Ukraine, Higher Medical Institute of Ukraine "Ukrainian Medical Dental Acad." - Poltava: Divosvit, 2014. - 200 p.

3. Gynecology: a textbook / ed. B.M. Wentkivsky, G.K. Stepankivska, M.E. Yarotsky. - K.: VSV Medicine, 2012. - 352 p.

4. Obstetrics and Gynecology: in 4 volumes: national textbook / no. ed .; in a row. Academician of the National Academy of Medical Sciences of Ukraine, prof. V.M. It is blocked. - Vol. 3: Non-surgical gynecology. - K.: VSV "Medicine", 2014. - 928 p.

5. Gynecology: a guide for doctors / VK Likhachev. - Vinnytsia: New Book, 2018. - 688 p.

Additionally:

1. Munro M. G. Abnormal uterine bleeding. Cambridge: Cambridge University Press, 2010.

2. Zaporozhan VM Operative gynecology / VN Zaporozhan. - Odessa: ODMU, 2006. - 448 p.

3. Emergency surgical care in obstetrics and gynecology / LB Markin, Yu. P. Spizhenko, BM Ventskovsky [and others]. - Lviv: World, 1992. - 120 p.

4. Emergency conditions in obstetrics: teach. tool. for students. higher. honey. teach. closed / OA Burka [and others]; row: B. M. Ventskivskyi, A. Ya. Senchuk, OO Zelinsky. - Odessa: TPP, 2011. - 260 p.

5. Tatarchuk TF, Solsky YP Endocrine gynecology (clinical essays). - K .: Testament, 2003. - 304 p.

6. A. DeCherney, H. Obstetrics and gynecology: diagnosis and treatment: a textbook for medical students: in two volumes / A. H. DeCherney, L. Nathan; ed. AN Strizhakov; trans. with English. [M. A. Mayevsky, RV Parmenov]. - Moscow: MEDPress-Inform, 2008-2009.

7. Dubile P. Atlas on ultrasound diagnostics in obstetrics and gynecology / PM Dubile, KB Benson; trans. with English. ; under common. ed. V. E. Gazhonova. - 3rd ed. - M.: Medpress-inform, 2011. - 328 p.

8. Hart D. M.K. Gynecology: an illustrated clinical guide / D.M.K. Hart, D. Norman; trans. with English. [AND. Sokolov, etc.]; under common. ed. VN Prilepskoy. - Moscow: Binom, 2009. - 463 sec.

9. Outpatient care in gynecology / ed. V.A. Beniuk // Gynecologist doctor's guide. - 2nd ed., Suppl. - K .: Publishing House "Health of Ukraine", 2010. - 462 p. - (The series "Library" Health of Ukraine ").

10. Algorithms in Obstetrics and Gynecology / Ed. V.A. Benyuk // Doctor's Guide. - K .: Doctor-Media LLC, 2009. - 428 p. (Library series "Health of Ukraine").

11. Handbook of practical skills in gynecology, obstetrics and neonatology / Ed. prof. AND I. Senchuk. - K .: Hydromax, 2006. - 368 p.

12. Order of the Ministry of Health of Ukraine No. 676 of December 31, 2004. "On the approval of clinical protocols in obstetric and gynecological care."

13. Electronic document "Adapted clinical guidelines based on evidence of" Abnormal uterine bleeding ", 2016.

14. National consensus on the management of patients with abnormal uterine bleeding of the Association of Gynecologists and Endocrinologists of Ukraine. Reproductive endocrinology. 2015; 1 (21): 8-12.

15. Order of the Ministry of Health of Ukraine No. 319 dated 06.04.2016 "Unified clinical protocol of primary, secondary (specialized) and tertiary (highly specialized) medical care. Tactics of managing patients with genital endometriosis », 2016.

16. Order of the Ministry of Health of Ukraine No. 582 of 15.12.2003 "On approval of clinical protocols on obstetric and gynecological care".

17. Order of the Ministry of Health of Ukraine No. 624 of November 3, 2008 on amendments to the order of the Ministry of Health of Ukraine No. 582 of December 15, 2003 "On Approval of Clinical Protocols on Obstetric and Gynecological Care", Order of the Ministry of Health of Ukraine No. 676 of December 31, 2004 "On the approval of clinical protocols in obstetric and gynecological care."

18. MI Pavlyuchenko Pre-cancers and malignancies in gynecology: textbook. tool. / MI Pavlyuchenko, OM Slinko. - Zaporizhzhia, 2015. - 92 p.

19. Pavlyuchenko MI Postpartum purulent-septic complications: textbook. tool. / MI Pavlyuchenko, OM Slinko. - Zaporizhzhia, 2014. - 105 p.

20. Zaliznyak V.O. Emergency conditions in gynecology. - Zaporozhye: ZDMU. - 2013. - 84 p.