MINISTRY OF HEALTH OF UKRAINE KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Obstetrics, Gynecology and Pediatric Gynecology

SYLLABUS of academic discipline

"Ultrasound Examination in Obstetrics and Gynecology"

Academic year 2020-2021

field of knowledge

22 Healthcare

(code and name of the direction of training)

specialty

222 Medicine

(code and name of the specialty)

name of the degree assigned

name of the level of higher education Second (educational and scientific level) master's level of higher education

The syllabus of the discipline was approved at the meeting of the department of Obstetrics, Gynecology and Pediatric Gynecology

KhNMU on the problems of professional training of surgical profile

Approved by the methodical commission of

Professor V.O.Syplyvyi (initials and surname)

Protocol of "28" August 2020 No. 1

Head of the department

Professor I.O.Tuchkina

"28" August 2020

Protocol of

"28" August 2020 No. 1

Head

"28" August 2020

1. Data on the teacher who teaches the discipline

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Schedule of classes	
Consultations	

INTRODUCTION

The syllabus of the discipline "Current Scientific Research in Obstetrics and Gynecology" is compiled in accordance with the educational and professional program Medicine, field of knowledge 22 – "Health", specialty – 222 "Medicine".

Discipline description (abstract) Ukraine has actively embarked on the path of Western European development, this applies in particular to medical science and education. Modern scientific trends require educators to take new approaches to research, write scientific articles and dissertations, develop new methods and more creative approaches to training graduate students, young scientists, using their creative potential, acquired knowledge and experience. Training of doctors is the basis for further professional activity and is important for self-realization and further career growth, which will generally improve the diagnosis, treatment and prevention of diseases of the female reproductive system, improve the level of medical care for mothers and mothers and influence the demographic situation in Ukraine. Thus, it is important to study the discipline "Current scientific research in obstetrics and gynecology" in the system of training doctors for the specialty 222 Medicine.

The subject of the course is medical and diagnostic methods and techniques in obstetrics and gynecology, the use and principles of working with the latest equipment.

Interdisciplinary relations. The discipline "Current Scientific Research in Obstetrics and Gynecology" relates with such disciplines as: "Obstetrics and Gynecology", "Modern Medical and Biomedical Technologies", "Methodology of Scientific Research in Medicine".

The discipline is elective.

Prerequisites. The study of the discipline involves the prior mastering of credits in obstetrics and gynecology.

Postrequisites. The main provisions of the discipline should be applied in the study of professional disciplines.

1. The purpose and objectives of the discipline

- 1.1. The purpose of teaching the discipline is to acquire the necessary knowledge on modern research in obstetrics and gynecology, which involves the acquisition and deepening of knowledge, skills, abilities and other competencies sufficient to produce new ideas, solving complex problems in this discipline, mastering the methodology scientific and pedagogical activities, as well as conducting their own research, which solves the current scientific problem in obstetrics and gynecology, the results of which have scientific novelty, theoretical and practical significance.
- 1.2. The main objectives of the discipline are: the acquisition of skills in the use of modern research in obstetrics and gynecology, mastering the terminology of the research area; study of the latest techniques in obstetrics and gynecology; acquisition of skills in the analysis of resource and information bases for solving professional problems in obstetrics and gynecology, systematization of methodological experience (domestic and foreign) in obstetrics and gynecology.
- **1.3 Competences and learning outcomes**, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes).

According to the requirements of the standard, the discipline provides acquisition by students of

competencies:

- integral:

Ability to solve complex specialized problems and practical problems associated with physical therapy and occupational therapy, characterized by complexity and uncertainty of conditions, using the provisions, theories and methods of medical-biological, social, psychological and pedagogical sciences.

- general:
- GC 01. Knowledge and understanding of the subject area and understanding of professional activity.
- GC 02. Ability to act on the basis of ethical considerations (motives).
- GC 03. Interpersonal skills.
- GC 04. Ability to work in a team.
- GC 05. Ability to motivate people and move towards a common goal.
- GC 06. Ability to communicate in the state language both orally and in writing.
- GC 07. Ability to communicate in a foreign language.
- GC 08. Ability to plan and manage time.
- GC 09. Information and communication technology skills.
- GC 10. Ability to search, process and analyze information from various sources.
- GC 11. Ability to learn and master modern knowledge.
- GC 12. Ability to apply knowledge in practical situations.
- GC 13. Ability to act socially responsibly and consciously.

- GC 14. Ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.
- GC 15. Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, technology and technology, use different types and forms physical activity for active recreation and a healthy lifestyle.
 - special (professional, subject-specific):
- SC 01. Ability to explain to patients, clients, families, members of the interdisciplinary team, other health care professionals the need for physical therapy, occupational therapy, principles of their use and connection with health care.
- SC 02. Ability to analyze the structure, normal and individual development of the human body and its motor functions.
- SC 03. Ability to interpret pathological processes and disorders and use suitable means of physical therapy, occupational therapy for their correction.
- SC 04. Ability to take into account medical, psychological and pedagogical, social aspects in the practice of physical therapy, occupational therapy.
- SC 05. Ability to conduct safe practice for the patient / client and practitioner in physical therapy, occupational therapy in obstetrics and gynecology.
- SC 06. Ability to perform basic components of examination in physical therapy and / or occupational therapy: observation, survey, measurement and testing, document their results.
- SC 07. Ability to help the patient / client understand their own needs, discuss and explain the content and need for a physical therapy and occupational therapy program SC 08. Ability to effectively implement a program of physical therapy and / or occupational therapy.
- SC 09. Ability to ensure that physical therapy and / or occupational therapy measures are appropriate to the patient's / client's functionalities and needs.
- SC 10. Ability to carry out operational, current and staged monitoring of the patient's / client's condition by appropriate means and methods and to document the obtained results.
- SC 11. Ability to adapt their current practice to changing conditions.
- SC 12. Ability to provide pre-medical care in emergencies.
- SC 13. Ability to teach the patient / caregivers self-care / care, prevention of diseases, injuries, complications and disabilities, a healthy lifestyle.
- SC 14. Ability to find ways to continuously improve the quality of physical therapy and occupational therapy services.

Detailing of competencies according to NQF descriptors in the form of "Competence Matrix".

Matrix of compliance defined by the Standard of competencies with the descriptors of the National Qualifications Framework

Comp etenc e code	name	Knowledge	Skills	Communic ation	Autonomy and responsibilit y
		 Integ	ral competence		
IC	physical thera uncertainty of	e complex specialization and occupations, using ial, psychological and	zed problems and ponal therapy, character the provisions, the	aracterized by concerning and method	omplexity and
GC0	Knowledge	To know the	To adhere to the	Ability to	To be
1	and understanding of the subject area and understanding of professional activity	legislative and system-forming documents governing professional activities.	law, be able to take into account the factors that affect the professional activities of physical therapists and occupational therapists.	exchange information about legislative factors influencing the professional activity of a physical therapist and occupational therapist.	responsible for their own professional decisions, adherence to the framework of professional activity.
GC0 2	Ability to act on the basis of ethical considerations (motives)	To know the legal documents related to health care, social protection, education, physical education.	To adhere to the law, moral norms, professional ethics; be able to obtain the consent of the patient / client, or guardians to conduct physical therapy, occupational therapy.	To show respect for the patient / client; show empathy; adhere to effective communication; perceive and respect the patient's / client's need for communication.	To be responsible for their own professional decisions, compliance with ethical and legal requirements.
GC 03	Interpersonal skills	To know the methods of verbal and non-verbal communication with patients / clients in different conditions, guardians, family members, relatives and all participants in the	To be able to take into account factors that may affect the effectiveness of communication; use open and closed questions; identify and interpret nonverbal communication	To demonstrate the skills of an attentive listener and the ability to ask questions correctly; express written information in plain language.	To be responsible for complying with ethical and legal requirements, critically analyze their communicati on skills and improve communicati on skills.

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GC0 4	Ability to work in a team	rehabilitation process. To know the methods of effective communication, teamwork management.	signals; communicate professionally and clearly with patients / clients, guardians, family members, relatives and all participants in the rehabilitation process; check that the patient / client understands the information provided. To be able to work in a team, adhere to the limits of professional competence, ethical and moral principles; demonstrate behavior that contributes to the formation of a favorable working atmosphere.	Ability to exchange information with team members, communicate with them verbally and nonverbally; adhere to the appropriate style of clothing, communication and behavior.	To be responsible for complying with ethical, legal and professional requirements
GC 05	Ability to motivate people and move towards a common goal	To know the methods of effective communication, basics of management and governance	To be able to apply knowledge of effective communication, management and governance, demonstrate behavior that promotes motivation.	Ability to exchange information, communicate verbally and nonverbally; adhere to the appropriate style of clothing, communication and behavior.	To be responsible in the formation of a common goal and its implementati on.
GC0 6	Ability to communicate in the state language both orally and in writing	To have a perfect knowledge of the state language.	To be able to apply knowledge of the state language, both orally and in writing.	To use the state language in professional and business communication and in the preparation of documents.	To be responsible for proficiency in the state language at the appropriate level.

GC 07	Ability to communicate in a foreign language	To have sufficient knowledge of a foreign language.	To be able to apply knowledge of a foreign language, be able to communicate in a foreign language.	To use a foreign language in professional and business communication and in the preparation of documents, use a foreign language in professional activities	To be responsible for foreign language proficiency at the appropriate level.
GC0 8	Ability to plan and manage time	To know the basics of management	To be able to apply the principles of organizational management	To use the means of communication	To apply responsibly the principles of organizationa l management
GC0 9	Skills in the use of information and communication technologies	To have knowledge in the field of information technology used in professional activities	To be able to use information and communication technologies in professional activities	Ability to use information and communication and communication technologies in professional activities	To be responsible for the development of professional knowledge and competencies
GC1 0	Ability to search, process and analyze information from various sources	To know the principles of scientific evidence practices; modern methods of information retrieval; work with library and information resources.	To be able to use traditional and latest information communication technologies; select available resources, such as electronic databases; demonstrate the use of a critical approach during the process of interpreting information;	To establish appropriate connections to achieve goals; use library and information and communication technologies	Ability to work autonomousl y, to carry responsibility for the accuracy of the information collected.
GC1 1	Ability to learn and master modern knowledge	To know the methods of searching for educational resources and databases, the principles of forms and methods of	To be able to evaluate yourself critically; choose educational resources; critically analyze the	Ability to convey your public and social position	To choose independently the optimal educational resources and implement modern scientific data in

GC 12 GC 13	Ability to apply knowledge in practical situations The ability to exercise their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its	teaching; have specialized conceptual knowledge acquired in the learning process. To know their social and public rights and responsibilities To know their professional rights and responsibilities; principles of scientific evidence-based practice.	existing rehabilitation practice, based on modern scientific data; apply knowledge in practice, solve complex problems and problems that arise in professional activities. To form civic consciousness, to be able to act in accordance with it To be able to form their professional responsibility, act in accordance with it; make decisions using the principles of scientific evidence-based practice; act	Ability to convey their public and social position Ability to convey their position to professionals and non-specialists; effectively form a communication strategy in professional activities	practice; to be responsible for professional development, to study professionall y with a high level of autonomy. To be responsible for their civic position and activities To be responsible for their professional position and activities; to be responsible for making decisions in difficult conditions.
	sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.		within the scope of their job responsibilities and professional competence.		
GC1 4	Ability to act socially responsibly and consciously	To know the social norms of nature and society	To be able to use different types and forms of physical activity for active recreation and a healthy lifestyle	To communicate clearly personal position	To have their own personal position and activities; to be responsible for making decisions in difficult conditions.
GC1 5	Ability to preserve and multiply the moral, cultural, scientific values and	To know the history of the subject area, its place in the general system of knowledge	To be able to use different types and forms of physical activity for active recreation	To develop measures to preserve moral, cultural, scientific values and	To be responsible for preservation and increase moral,

	achievements of society through an understanding of history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, equipment and technology, to use different types and forms of physical activity for active recreation and healthy living	about nature and society	and healthy living	achievements of society; interact with relevant structures in solving social problems	cultural, scientific values and achievements of society
SC 01	Ability to explain the need for physical therapy, occupational therapy, principles of their use and connection with health care.	To know the principles of medical, social and biopsychosocial models of life restriction; features of application of preventive and therapeutic measures of physical therapy, occupational therapy and their influence on the state of health of the patient / client;	To be able to explain the concept of "health" and ways to strengthen it in the context of the needs of a particular patient / client; explain the effectiveness of exercise and environmental change to restore and maintain health; explain the need for preventive and therapeutic measures of physical therapy, occupational therapy.	convey their position to professionals and non-specialists; cooperation with a wide range of people (colleagues, managers, clients) to conduct professional activities	Ability to work autonomousl y, to be responsible for the accuracy of voiced information.
02	Ability to analyze the structure,	To know the anatomy, biomechanics,	To be able to explain the anatomical	1	To be responsible for the timely

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	normal and	physiology and	structure and	communicatio	acquisition of
	individual	biochemistry of	functions of the	n strategy in	modern
	development	motor activity,	human body;	professional	scientific and
	of the human	physical and	describe the	activities.	practical
	body and its	mental	structure and		knowledge.
	motor	development;	functions of		
	functions.	processes that	organs and		
		take place in the	systems of the		
		body during	body; explain the		
		training and	relationship		
		control of motor	between the		
		functions.	structure and		
			function of the		
			basic systems of		
			the human body;		
			analyze the basic		
			motor functions		
			of man; describe		
			the features of		
			physical and		
			mental		
			development of		
			the human body.		
SC0	Ability to	Fundamentals of	To be able to	Ability to	To be
3	interpret	pathology,	explain the body's	effectively	responsible
	pathological	pathophysiology	reactions to	form a	for the timely
	processes and	, functional	damage; general	communicatio	acquisition of
	disorders and	anatomy;	principles and	n strategy in	modern
	use for their	principles of	mechanisms of	professional	scientific and
	correction	application and	the processes of	activities.	practical
	suitable means	influence of	deterioration of		knowledge
	of physical	means and	health, recovery		
	therapy,	methods of	and recovery in		
	occupational	physical	the context of		
	therapy	therapy,	practical activities		
		occupational	in physical		
		therapy.	therapy,		
			occupational		
			therapy;		
			pathological		
			processes that are		
			exposed		
			correction by		
			physical therapy,		
			occupational		
SCO	Ability to tale	To Imary 4h-	therapy	To astablish	Dognosilia
SC0	Ability to take	To know the	Ability to	To establish	Responsible
4	into account	basics of	integrate	interdisciplinar	attitude to the
	medical,	pathology,	knowledge about	y links to	dissemination
	psychological	pathophysiology	pathological	achieve goals;	and interpretation
	and	, sociology,	processes and the	communicate	interpretation of
	pedagogical,	psychology of	disorders caused	verbally and	
	social aspects	pedagogy,	by them, related	nonverbally.	information
	in the practice	physical	to the condition of		from

	of physical therapy, occupational therapy	therapy, occupational therapy; interconnection and interaction of physical, cognitive, emotional, social and cultural spheres.	a particular patient / client.		medical, social, pedagogical, psychological specialists.
SC0 5	Ability to conduct safe for the patient / client and practitioner practical activities in physical therapy, occupational therapy in traumatology and orthopedics, neurology and neurosurgery, cardiology and pulmonology, as well as other fields of medicine	To know the Laws of Ukraine on health care, code of ethics, regulations governing professional activities; the principle of obtaining the consent of the patient / client to conduct physical therapy, occupational therapy; features of the impact of the patient's / client's condition and the external environment on the safety of activities; features of positioning and movement.	To be able to identify the actual and potential risk, danger to the patient / client and the practitioner, to respond accordingly; summarize all the results of the survey and draw up an appropriate plan of professional action, taking into account all safety measures and contraindications for each action; prevent dangers / risks, minimize them during physical therapy, occupational therapy; safe use of equipment; provide primary care in emergencies.	In case of uncertainty, to seek help or refer the patient / client to another healthcare professional; to respond tactfully and clearly to the dangerous actions of colleagues.	To be responsible for compliance with safety requirements.
SC 06	Ability to perform basic components of examination in physical therapy and / or occupational therapy: observation, survey, measurement and testing, document their	To know the methods of sociological, pedagogical, clinical and paraclinical research; basic contraindication s and warnings for physical therapy, occupational therapy; features of examination	To be able to organize the collection of information about the current state of health of the patient / client; take a history; demonstrate a clear rationale for the chosen sequence of questions and surveys; use	To establish interdisciplinar y links to achieve goals; communicate verbally and nonverbally; to consult with colleagues, patient / client, guardians, family members and other	Under supervision to conduct examinations , testing, examination in physical therapy, occupational therapy and document the results; be responsible for

	results (Appendix 1)	in physical therapy, occupational therapy, special tests and scales; ethical and legal requirements for record keeping	appropriate survey and testing review methods; accurately document survey data using a logical format that meets the professional instructions of the specialist and the requirements of the institution.	participants in the rehabilitation process.	complying with ethical and legal requirements
SC0 7	Ability to help the patient / client to understand their own needs, discuss and explain the content and need to implement a program of physical therapy and occupational therapy Independently seeks to help the patient / client understand and realize his own needs.	To know the basics of psychology, sociology; basics of scientific evidence-based practice and methods of forecasting and planning in physical therapy, occupational therapy; goal setting models; main contraindication s and warnings for physical therapy, occupational therapy, occupational therapy, occupational therapy.	To be able to assess the needs and rehabilitation potential of the patient / client; interpret the program and explain it to the patient / client.	To provide a clear rationale for the goals and program of physical therapy, occupational therapy in communicatio n with members of the multidisciplina ry team, patient or caregivers; to discuss appropriate methods of intervention / care.	To demonstrate independentl y the ability to justify the goals and programs of physical therapy, occupational therapy
SC0 8	Ability to effectively implement a program of physical therapy and / or occupational therapy.	Means methods and forms of physical therapy, occupational therapy	To be able to safely and effectively perform the program of physical therapy, occupational therapy; act persistently and purposefully; modify the amount of workload, content and direction of classes depending on the functional, psychological and cognitive state of	In case of uncertainty, to seek help or refer the patient / client to other specialists; provide the patient / client with verbal and non-verbal prompts, correcting the performance of exercises / actions, and, if necessary, paraphrase the	To be responsible for the effective implementati on of the program of physical therapy, occupational therapy.

	1		tho	notiont	instructions	
			the	patient;		
			choose	the	interact with	
			necessary		members of a	
			assistance	-	multidisciplina	
			determine	the	ry team,	
			frequency	of	patient or	
			classes a	and the	caregivers.	
			duration	of the	· ·	
			course of	physical		
			therapy,	1 3		
			occupation	nal		
			therapy;	iiui		
			coordinate	e the		
			implemen			
			-			
				ndividual		
			rehabilitat			
			program			
			participan			
			rehabilitat			
			process;	adjust		
			goals	if		
			necessary	; discuss		
			the rehal	oilitation		
			process v	with the		
			patient /			
			and / or i			
			guardians			
			relatives,	, other		
			profession			
			provide p			
			clients wi			
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SC0 Abilit	•	To know the		able to	To establish an	To be
9 effect	-	basics of	assess	the	exchange of	responsible
imple		didactics, theory	functional	•	experience;	for deciding
progr		and methods of		of the	use verbal and	on the
physi	cal	physical culture,	-	client;	non-verbal	compliance
therap	by and /	psychology;	choose	methods	communicatio	of physical
or		criteria for	of influ	ence /	n with the	therapy,
occup	oational	compliance of	care, taki	ing into	patient / client;	occupational
thera	by .	physical	account		to provide	therapy
		therapy,	pathology	,	information in	measures
		occupational	functional		an optimal	with
		therapy	disorders,		way.	functional
		measures with	and part	•	· J ·	capabilities
		the current state	of the	person,		and needs
		of health,	contextua			and 1100db
		functionality		factors;		
		and needs of the	-	14015,		
			organize	1		
		patient / client.	individual	l and		
			group	1		
			classes,	choose		
			the n equipmen	ecessary		

			monitor the patient's condition; anticipate and determine the patient's / client's response to rehabilitation measures		
SC1 0	Ability to conduct operational, current and phased monitoring of the patient / client by appropriate means and methods (Appendix 1) and document the results	To know the forms and methods of conducting and recording the results of operational, current and phased monitoring of the patient / client; criteria for achieving goals; features of adjustment of the purposes and tasks depending on results of control; criteria for evaluating the effectiveness of independent activities of patients / clients.	To be able to conduct operational, current and phased monitoring of the patient's / client's condition and document their results; to evaluate the effectiveness of physical therapy, occupational therapy; determine the attitude of the patient / client to the results obtained; to teach the patient / client to apply methods of self-control; adhere to standardized protocols when measuring results; interpret the obtained data; manage the process of physical therapy, occupational therapy.	To communicate clearly control results when communicatin g with multidisciplina ry team members, the patient, or caregivers.	To conduct independently operational and ongoing monitoring of the patient's / client's condition; to be responsible for timely and reliable monitoring of the patient's / client's condition by appropriate means and methods, for proper documentation of the obtained results.
SC1 1	Ability to adapt their current practical activities to changing conditions	To know the types and methods of adaptation, principles of action in a new situation.	To be able to apply means of self-regulation, to be able to adapt to new situations (circumstances) of life and	To establish appropriate relationships with members of the multidisciplina ry team,	To be responsible for the timely use of self-regulatory methods.
			activity; select and change the means, methods	patient or caregivers to achieve results.	

			and forms of		
SC1	Ability to	To have	and forms of physical therapy, occupational therapy in accordance with changing conditions. To be able to	To explain the	To be
2	provide pre- medical care during emergencies	specialized knowledge about the structure of the human body, its organs and systems; algorithms for providing emergency pre- medical care in emergencies	provide emergency pre- medical care in an emergency	need and procedure for emergency pre-medical care. To be able to explain the inexpediency of any measures to non-specialists.	responsible for the timeliness and quality of emergency medical care.
SC1 3	Ability to teach the patient / caregivers self-care / care, prevention of diseases, injuries, complications and disabilities, a healthy lifestyle	To know the basics of psychology and didactics; principles of a healthy lifestyle; features of prevention of diseases and their	To be able to lead a healthy lifestyle and teach it to the patient / client and / or relatives, guardians, relatives; to teach the patient / client the techniques of self-care, the basics of prevention of diseases and their complications, injuries, disabilities; teach caregivers and / or relatives how to care for patient / client, involve them in the rehabilitation process	Clear and unambiguous communicatio n of own conclusions, knowledge and explanations that substantiate them to specialists and non-	To be responsible for maintaining a healthy lifestyle; be responsible for the prevention of diseases, injuries and disabilities; seek to help patient / client or caregivers to understand and implement care and self-care techniques
SC1 4	Ability to find ways to continuously improve the quality of physical therapy and occupational therapy services	To know the basics of management, the principles of evidence-based practice.	To be able to improve professional activities in accordance with modern scientific evidence.	To establish connections to achieve goals; communicate verbally and nonverbally.	To be responsible for adhering to the principle of continuous improvement of the quality of rehabilitation services

Learning outcomes:

- LO 01. To demonstrate readiness to strengthen and maintain personal and public health through the use of human physical activity and outreach to patients / clients, their family members, health professionals, and the improvement of the community environment.
- LO 02. To communicate orally and in writing in Ukrainian and foreign languages in a professional environment, have professional terminology and professional discourse, adhere to the ethics of business communication; to compile documents, including in a foreign language (languages).
- LO 03. To use modern computer equipment; find information from various sources; analyze domestic and foreign sources of information needed to perform professional tasks and make professional decisions.
- LO 04. To apply in professional activities knowledge of biological, medical, pedagogical and psychosocial aspects of physical therapy and occupational therapy.
- LO 05. To provide pre-medical care in emergencies and pathological processes in the body; choose the best methods and means of saving lives.
- LO 06. To apply methods and tools for determining and measuring structural changes and impaired body functions, activity and participation, interpret the information obtained.
- LO 07. To interpret the information on the patient's / client's violations according to the International Classification of Functioning, Restriction of Life and Health (ICF) and the International Classification of Functioning, Restriction of Life and Health of Children and Adolescents (ICF CA).
- LO 08. To act in accordance with legal requirements and norms of professional ethics
- LO 09. To implement individual programs of physical therapy, occupational therapy.
- LO 10. To carry out physical therapy measures to eliminate or compensate for movement disorders and activity.
- LO 11. To implement occupational therapy measures to eliminate or compensate for functional and associated limitations of activity and participation.
- LO 12. To apply modern scientific evidence in professional activities.
- LO 13. To choose the optimal forms, methods and techniques that would ensure respect for the patient / client, his safety / protection, comfort and privacy.
- LO 14. Safe and effective use of equipment for rehabilitation activities, monitoring of the patient's vital signs, rehabilitation aids for movement and self-care.
- LO 15. To communicate verbally and non-verbally with individuals and groups of interlocutors, different in age, level of education, social and professional affiliation, psychological and cognitive qualities, etc., in a multidisciplinary team.
- LO 16. To conduct instruction and training for clients, their family members, colleagues and small groups.
- LO 17. To evaluate the results of the implementation of physical therapy and occupational therapy programs, using appropriate tools, and, if necessary, modify current activities.
- LO 18. To assess themselves critically, learn new professional information, deepen knowledge through self-education, evaluate and present own experience, analyze and apply the experience of colleagues.

2. Information volume of the discipline

The discipline is taught for 90 hours, 3 ECTS credits.

Discipline section 1. Ultrasound examinations in obstetrics

Topic 1. Ultrasound examination in early pregnancy.

Anatomical-physiological, endocrine and embryonic aspects of the reproductive process at an early stage

Menstrual cycle. Tubal cycle of embryo development. Uterine period of early pregnancy.

Ultrasound examinations in normal (uterine) early pregnancy (2-3 - 5-6 weeks of pregnancy)

Early pregnancy (EP) and corpus luteum cyst.

Unusual (atypical) variants of early pregnancy

Twins. EP in the bicornuate uterus. EP in the presence of intrauterine contraception. EP on the background of organic pathology of the uterus and ovaries.

Pathology of early pregnancy

Threatened miscarriage. Miscarriage. Missed miscarriage.

Functional disorders of the menstrual cycle

Anovulation. Persistence of the corpus luteum.

Topic 2. Fundamentals of ultrasound screening at 11-14 weeks of pregnancy.

Methodical approaches to ultrasound screening at 11-14 weeks of pregnancy

Evaluation of ultrasound anatomy of the fetus and prenatal diagnosis of congenital malformations at 11-14 weeks of pregnancy

Skull vault bones. Brain. Spine. Facial structures. Heart. Stomach. Anterior abdominal wall. Bladder. Kidneys. Bones of the extremities.

Prenatal ultrasound markers of chromosomal abnormalities at 11-14 weeks of pregnancy

The thickness of the collar space. Nasal bones. Front angle. Venous duct. Tricuspid regurgitation.

Combined screening of chromosomal abnormalities and preeclampsia at 11-14 weeks of pregnancy.

Topic 3. Fundamentals of ultrasound screening at 18-21 weeks of pregnancy.

Methodical approaches to conducting ultrasound screening at 18-21 weeks of pregnancy

Fetometry. Ultrasound placentography. Umbilical cord. Amniotic fluid. Cervix and uterine wall.

Evaluation of ultrasound anatomy of the fetus, markers of chromosomal abnormalities and prenatal diagnosis of congenital malformations at 18-21 weeks of pregnancy.

Brain. Face. Neck and spine. Lungs. Heart and main vessels. Abdominal organs. Kidneys and bladder. Limbs.

Topic 4. Fundamentals of ultrasound after 32 weeks of pregnancy

Features of ultrasound examination after 32 weeks of pregnancy.

Discipline section 2. Ultrasound examinations in gynecology

Topic 5. Ultrasound anatomy of the pelvic organs in healthy women

Topic 6. Inflammatory diseases of the pelvic organs

Endometritis. Metroendometritis. Hydrosalpinx. Pelvic infiltrate. Adhesion disease.

Topic 7. Cysts and tumors of the ovaries

Follicular cysts. Serous cysts. Endometrioid cysts. Teratodermoid cysts. Rare ovarian neoplasms. Malignant tumors of the ovaries.

Topic 8. Uterine fibroids

Diffuse form of uterine fibroids. Nodular forms of uterine fibroids. Cervical fibroids. Multinodular form of fibroids. Uterine sarcomas.

Topic 9. Endometriosis

Endometriosis of the uterine body. Endometriosis of the cervix. Ovarian endometriosis. Cervical endometriosis. Combined forms of ingenious endometriosis.

Topic 10. Ultrasound assessment of the uterine cavity

Intrauterine contraceptives. Hematometer. Hyperplastic processes of the endometrium. Endometrial cancer.

Description of the discipline

Name of indicators	Field of knowledge, direction of training, educational and	Characteristics of the discipline Intramural training
Number of credits – 3	qualification level Training direction 22 Healthcare (code and name)	Normative
		Year of training:
Total number of hours	Specialty: 222 Medicine	5 th
- 90		Term
- 9 0		IX
		Lectures
	Education level: Second	_
		Practical classes, seminars
		20 hours
Hours for full-time		Laboratory
study:		-
classroom - 20,		Independent work
independent student		70 hours
work - 70		Tasks for independent
		work: hours
		Type of control:
		credit

3. The structure of the discipline

	- S	Type of classes (hours)		
Names of sections of the discipline and topics	Total number of hours	lectures	practical	seminars
	To um f he		classes	
	n O			
Discipline section 1. Ultrase	ound examin	ations in obs	tetrics	l
Topic 1. Ultrasound examination in early	2		1	1
pregnancy.				
Topic 2 Fundamentals of ultrasound screening at	2		1	1
11-14 weeks of pregnancy.				
Topic 3 Fundamentals of ultrasound screening at	2		1	1
18-21 weeks of pregnancy.				
Topic 4 Fundamentals of ultrasound after 32	2		1	1
weeks of pregnancy				
Total in section 1	8		4	4
Discipline section 2.	Ultrasound i	n gynecology	•	
Topic 5 Ultrasound anatomy of the pelvic organs	2			2
in healthy women				
Topic 6 Inflammatory diseases of the pelvic	2		2	
organs				
Topic 7 Cysts and tumors of the ovaries	2		1	1
Topic 8 Uterine fibroids	2		1	1
Topic 9 Endometriosis	2		1	1
Topic 10 Ultrasound assessment of the uterine	2		1	1
cavity				
Total in section 2	12		6	6
TOTAL	20		10	10

4. Lecture topicsNot provided by the curriculum.

5 Topics of seminars

No	Topic name	Hours
1	Topic 1 . Ultrasound examination in early pregnancy	1
2	Topic 2 Fundamentals of ultrasound screening at 11-14 weeks of pregnancy.	1
3	Topic 3 Fundamentals of ultrasound screening at 18-21 weeks of pregnancy	1
4	Topic 4 Fundamentals of ultrasound after 32 weeks of pregnancy	1
5	Topic 5 Ultrasound anatomy of the pelvic organs in healthy women	2
6	Topic 6 Inflammatory diseases of the pelvic organs	-
7	Topic 7 Cysts and tumors of the ovaries	1
8	Topic 8 Uterine fibroids	1
9	Topic 9 Endometriosis	1
10	Topic 10 Ultrasound assessment of the uterine cavity	1
	TOTAL	10

6. Topics of practical classes

No	Topic name	Hours
1	Topic 1 . Ultrasound examination in early pregnancy	
2	2 Topic 2 Fundamentals of ultrasound screening at 11-14 weeks of pregnancy.	
3	3 Topic 3 Fundamentals of ultrasound screening at 18-21 weeks of pregnancy	

4	Topic 4 Fundamentals of ultrasound after 32 weeks of pregnancy	1
5	Topic 5 Ultrasound anatomy of the pelvic organs in healthy women	-
6	Topic 6 Inflammatory diseases of the pelvic organs	2
7	Topic 7 Cysts and tumors of the ovaries	1
8	Topic 8 Uterine fibroids	1
9	Topic 9 Endometriosis	1
10	Topic 10 Ultrasound assessment of the uterine cavity	1
	TOTAL	10

7. Topics of laboratory classes

Not provided by the curriculum.

8. Topics of independent work

No	Topic name	Hours
1	Topic 1 . Ultrasound examination in early pregnancy	7
2	Topic 2 Fundamentals of ultrasound screening at 11-14 weeks of pregnancy.	7
3	Topic 3 Fundamentals of ultrasound screening at 18-21 weeks of pregnancy	7
4	Topic 4 Fundamentals of ultrasound after 32 weeks of pregnancy	7
5	Topic 5 Ultrasound anatomy of the pelvic organs in healthy women	6
6	Topic 6 Inflammatory diseases of the pelvic organs	7
7	Topic 7 Cysts and tumors of the ovaries	7
8	Topic 8 Uterine fibroids	7
9	Topic 9 Endometriosis	7
10	Topic 10 Ultrasound assessment of the uterine cavity	8
	TOTAL	70

9. Tasks for independent work

Not provided by the curriculum

10. Teacher's (department's) policy Academic expectations from students

Course requirements

Students are expected to attend all lectures and workshops. Missed classes should be redone (according to the schedule on the information stand of the department)

Written tasks and homework must be done completely and on time, if students have questions, they can contact the teacher in person or by e-mail, which the teacher will provide in the first practical class.

During the **seminars**, students are recommended to keep a synopsis of the class and keep a sufficient level of silence. Asking questions to the teacher is perfectly normal.

Practical training

Actively participating in the discussion in the classroom, students should be ready to understand the material in detail, ask questions, express their views, engage in discussion. During the discussion it is important to:

- show respect for colleagues,
- have tolerance for others and their experience,
- be receptive and impartial,

- be able to disagree with the opinion, but to respect the personality of the opponent,
- provide careful argumentation of one's opinion and the courage to change one's position under the influence of evidence,
 - mandatorily get acquainted with primary sources.

A creative approach in its various manifestations is welcome. Students are expected to be interested in participating in city, national and international conferences, competitions and other events in the subject profile.

Occupational health

During the first class of the course it is necessary to explain the basic principles of labor protection by conducting appropriate training. It is expected that everyone should know where the nearest evacuation exit to the audience, where the fire extinguisher is, how to use it, and so on.

Behavior in the classroom Basic "dos" and "don'ts"

It is important to follow the rules of good behavior at the university. These rules are common to all, they also apply to all faculty and staff, and do not differ in principle from generally accepted norms.

During classes it is allowed to:

- leave the classroom for a short time if necessary and with the permission of the teacher;
 - drink soft drinks;
 - take photos of presentation slides;
 - take an active part in the class.

It is prohibited to:

- eat (except for persons whose special medical condition requires it in this case, medical confirmation is required);
 - smoke, drink alcohol and even low-alcohol beverages or drugs;
- use obscene language or use words that offend the honor and dignity of colleagues and faculty;
 - gamble;
- damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
- shout, yell or listen to loud music in classrooms and even in corridors during classes.

Плагіат та академічна доброчесність

Кафедра акушерства, гінекології та дитячої гінекології підтримує нульову толерантність до плагіату. Від студентів очікується бажання постійно підвищувати власну обізнаність в академічному письмі. На перших заняттях проводитимуться інформаційні заходи щодо того, що саме вважати плагіатом та як коректно здійснювати дослідницько-науковий пошук.

11. Teaching methods

Seminar practice class

12. Methods of control

When studying the discipline, the current and final semester control is used.

Current control (mastering of certain topics) is carried out in the form of oral interviews, testing, conversations of students on predetermined issues, in the form of speeches of applicants with reports when discussing educational issues in practical classes and seminars.

The **final semester control** in the discipline is a mandatory form of control of students' academic achievements. It is performed orally. The terms of the final semester control are set by the schedule of the educational process, and the amount of educational material, which is submitted for the final semester control, is determined by the work program of the discipline.

The total number of rating points for the study of the discipline for the semester is calculated as the sum of points obtained from the results of current control and points obtained from the results of the final semester control. The maximum amount of points for the semester is 200 points.

13. Form of assessment of students' knowledge

The form of final control of academic performance in the discipline is a credit.

13.1 Recalculation of the average score for current academic activities on a multi-point scale

Assessment of students is carried out in accordance with the "Instructions for assessing the educational activities of students in the European credit transfer system for the organization of the educational process at KhNMU".

13.2 Credit

The form of final control of academic performance in the discipline is a credit.

Credit is conducted by the teacher of the academic group in the last class of the discipline. Admission to the test is determined in the points of CAA, namely: min - 70, max - 120 points. The credit for the discipline or its part is a process during which the following aspects received for the course (semester) are checked:

- level of theoretical knowledge;
- development of creative thinking;
- skills of independent work;

- competencies - the ability to synthesize the acquired knowledge and apply it in solving practical problems.

Recalculation of the average score for current academic activities on a multi-point scale

Conducted in accordance with the "Instructions for assessing the educational activities of students..."

Table 1
Recalculation of the average score for current academic activities on a multi-point scale

(for disciplines ending with a credit)

4	200-
4-point	point
scale	scale
5	200
4.97-4.99	199
4.95-4.96	198
4.92-4.94	197
4.9-4.91	196
4.87-4.89	195
4.85-4.86	194
4.82-4.84	193
4.8-4.81	192
4.77-4.79	191
4.75-4.76	190
4.72-4.74	189
4.7-4.71	188
4.67-4.69	187
4.65-4.66	186
4.62-4.64	185
4.6-4.61	184
4.57-4.59	183
4.54-4.56	182
4.52-4.53	181
4.5-4.51	180
4.47-4.49	179
4.45-4.46	178
4.42-4.44	177
4.4-4.41	176
4.37-4.39	175
4.35-4.36	174
4.32-4.34	173
4.3-4.31	172
4.27-4.29	171
4.24-4.26	170

4- point	200-
scale	point
Scarc	scale
4.22-4.23	169
4.19-4.21	168
4.17-4.18	167
4.14-4.16	166
4.12-4.13	165
4.09-4.11	164
4.07-4.08	163
4.04-4.06	162
4.02-4.03	161
3.99-4.01	160
3.97-3.98	159
3.94-3.96	158
3.92-3.93	157
3.89-3.91	156
3.87-3.88	155
3.84-3.86	154
3.82-3.83	153
3.79-3.81	152
3.77-3.78	151
3.74-3.76	150
3.72-3.73	149
3.7-3.71	148
3.67-3.69	147
3.65-3.66	146
3.62-3.64	145
3.6-3.61	144
3.57-3.59	143
3.55-3.56	142
3.52-3.54	141
3.5-3.51	140
3.47-3.49	139

4- point	200-
scale	point
Scale	scale
3.45-3.46	138
3.42-3.44	137
3.4-3.41	136
3.37-3.39	135
3.35-3.36	134
3.32-3.34	133
3.3-3.31	132
3.27-3.29	131
3.25-3.26	130
3.22-3.24	129
3.2-3.21	128
3.17-3.19	127
3.15-3.16	126
3.12-3.14	125
3.1-3.11	124
3.07-3.09	123
3.05-3.06	122
3.02-3.04	121
3-3.01	120
Less than 3	Unsatisfactory

Correspondence of estimates on a 200-point scale, four-point (national) scale and ECTS scale

Rating on a 200-point	Score on the ECTS	Score on four-point
scale	scale	(national) scale
180–200	A	Excellent
160–179	В	Good
150–159	С	Good
130–149	D	Satisfactory
120–129	Е	Satisfactory
Less than 120	F, Fx	Unsatisfactory

The credit for the disciplines, the study of which has been completed, is conducted by the teacher of the academic group at the last class in the discipline and provides for the consideration of CAA and verification of mastering all topics in the discipline. The grade is determined in points from 120 to 200 and marked – "passed", "failed".

14. Methodical support

- 1. Syllabus of academic discipline;
- 2. Plans of practical, seminar classes and independent work of students;
- 3. Methodical guidelines for the teacher;
- 4. Methodical instructions for practical classes for students;
- 5. Methodical materials that provide independent work of students;
- 6. Test and control tasks for practical classes;
- 7. Questions and tasks to control the assimilation of the section;
- 8. List of questions before the test, tasks to test practical skills during the test.
- 9. Multimedia presentations.

15. Recommended references

- 1. Митькова В.В. Клиническое руководство по ультразвуковой диагностике: в 4т. / В.В. Митькова, М.В. Медведев. М.: Видар.,1996. 92. Медведев М. В. 2. Медведев М.В. Задержка внутриутробного развития плода / М.В. Медведев, Е.В Юдина. М.: РАВУЗДПГ, 1998. 237 с.
- 3. Филиппов О.С. Плацентарная недостаточность. М.: МЕД пресс-информ.-2009.-159с.
- 4. Хачкарузов С.Г. Узи в гинекологии. С.-Петербург.:1998-99. -661с.
- 5. Хачкарузов С.Г. Ультразвуковое исследование при беременности раннего срока. М.: МЕД пресс-информ.-2013.-246с.
- 6. Медведев М.В. Основы ультразвуколвого скрининга в 18-21 неделю беременности. Реал Тайм.: 2015. 126с.
- 7. Медведев М.В., Алтынник Н.А. Основы ультразвуколвого скрининга в 11-14 неделю беременности. Реал Тайм.: 2014. 123с.
- 8. Яковенко Е. А. Изучение региональных номограмм плода для диагностики внутриутробной задержки роста / Е. А. Яковенко // Ультразвуковая перинатальная диагностика. 1994. Вып. 4-5. С. 29—37.

16. List of questions for the test

- 1. Anatomical and physiological features of the menstrual cycle.
- 2. Tubal cycle of embryo development.
- 3. Uterine period of early pregnancy.
- 4. Early pregnancy (EP) and corpus luteum cyst.
- 5. Features of visualization of twins.
- 6. EP in the bicornuate uterus.
- 7. EP in the presence of intrauterine contraceptives.
- 8. EP on the background of organic pathology of the uterus and ovaries.
- 9. Ultrasound characteristics of threatened miscarriage.
- 10. Ultrasound characteristics of miscarriage.
- 11. Ultrasound characteristics of a stillborn pregnancy.
- 12. Ultrasound characteristics of the anovulatory menstrual cycle.
- 13. Ultrasound characteristics of the persistence of the corpus luteum.
- 14. Features of ultrasound examination at 11-14 weeks of pregnancy.
- 15. Prenatal diagnosis of congenital malformations at 11-14 weeks of pregnancy.
- 16. Prenatal ultrasound markers of chromosomal abnormalities at 11-14 weeks of pregnancy
- 17. Combined screening of chromosomal abnormalities and preeclampsia at 11-14 weeks of pregnancy.
- 18. Features of ultrasound screening at 18-21 weeks of pregnancy
- 19. Ultrasonic fetometry.
- 20. Ultrasound placentography.
- 21. Ultrasound evaluation of the umbilical cord.
- 22. Ultrasound evaluation of amniotic fluid.
- 23. Ultrasound assessment of the cervix and uterine wall.
- 24. Evaluation of ultrasound anatomy of the fetus at 18-21 weeks of pregnancy.
- 25. Markers of chromosomal abnormalities in 18-21 weeks of pregnancy.
- 26. Prenatal diagnosis of congenital malformations at 18-21 weeks of pregnancy.
- 27. Features of ultrasound after 32 weeks of pregnancy.
- 28. Determination of presentation, type and position of the fetus according to ultrasound.
- 29. Biophysical profile of the fetus.
- 30. Determining the degree of maturity of the lungs of the fetus.
- 31. Ultrasound assessment of the scar on the uterus after cesarean section.
- 32. Assessment of the degree of maturity of the placenta.
- 33. Ultrasound anatomy of the pelvic organs in healthy women
- 34. Ultrasound characteristics of endometritis.
- 35. Ultrasound characteristics of metroendometritis.
- 36. Ultrasound characteristics of hydrosalpinx.
- 37. Ultrasound characteristics of the pelvic infiltrate.
- 38. Ultrasound characteristics of adhesive disease.
- 39. Ultrasound characteristics of the follicular cyst.
- 40. Ultrasound characteristics of serous cysts.
- 41. Ultrasound characteristics of endometrioid cysts.
- 42. Ultrasound characteristics of teratodermoid cysts.

- 43. Ultrasound characteristics of rare ovarian tumors.
- 44. Ultrasound characteristics of malignant ovarian tumors.
- 45. Ultrasound characteristics of the diffuse form of uterine fibroids.
- 46. Ultrasound characteristics of the nodular form of uterine fibroids.
- 47. Ultrasound characteristics of cervical fibroids.
- 48. Ultrasound characteristics of the multinodular form of fibroids.
- 49. Ultrasound characteristics of uterine sarcoma.
- 50. Ultrasound characteristics of endometriosis of the uterine body.
- 51. Ultrasound characteristics of cervical endometriosis.
- 52. Ultrasound characteristics of ovarian endometriosis.
- 53. Ultrasound characteristics of retrocervical endometriosis.
- 54. Ultrasound characteristics of combined forms of ingenious endometriosis.
- 55. Ultrasound characteristics of intrauterine contraceptives.
- 56. Ultrasound characteristics of hematometers.
- 57. Ultrasound characteristics of hyperplastic processes of the endometrium.
- 58. Ultrasound characteristics of endometrial cancer.

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