PRIVATE ESTABLISHMENT OF HIGHER EDUCATION DNIPRO INSTITUTE OF MEDICINE AND PUBLIC HEALTH



The Study Program implemented on 1st 01.09.2019 p. Rector _____ T. LESHCHEVA (order $N_003/1$ dated 18th October, 2018)

STUDY PROGRAM «MEDICINE»

LEVEL OF HIGHER Second (Master's)

EDUCATION

DEGREE OF HIGHER <u>Master</u>

EDUCATION

FIELD OF KNOWLEDGE

SPECIALTY

EDUCATIONAL

Mostor of Modicine

EDUCATIONAL <u>Master of Medicine</u>

QUALIFICATION

PROFESSIONAL <u>Doctor of Medicine</u>

QUALIFICATION

MODE OF STUDY <u>Full-Time</u>

Dnipro, 2020

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1. PREFACE

The Doctor of Medicine Study Program defines the prerequisites for the student's enrollment, the duration of study and content of training, the list of educational components and their logical sequence, the number of ECTS credits required to complete the program, forms of Attestation of students and graduates, as well as a list of general and professional competencies and program learning outcomes.

The program was developed by the project team in accordance with the requirements of the Law of Ukraine "On Higher Education", Directive 2013/55/ EU of the European Parliament and of the Council of 11/20/2013 and WFME Global Standards for Quality improvement: Basic Medical Education. WFME Global Standards for Quality improvement: Postgraduate Medical Education and WFME Global Standards for Quality improvement: Continuous Professional Development. Due to the unavailability of the national standard of higher education in specialty 222 "Medicine" for the second (master's) level of higher education at the current moment, the mentioned above documents where used while developing this Study Program.

Guarantor of the Study Program Rector of the Institute Dr. Tetiana Leshcheva -Doctor of Medical Sciences, Professor is responsible for the implementation of the Study Program and quality assurance.

The Study Program developers:

Tetiana Leshcheva – Doctor of Medical Sciences, Professor, project team leader, MD;

Olga Dniprova – PhD, Associate Professor, MD;

Oleksandr Romanenko – PhD, Associate Professor, MD;

Vitalii Sipitiy – Doctor of Medical Sciences, Professor

Valentyna Kaluzhna – , Associate Professor, MD;

Valerii Slobodkin – PhD, Associate Professor, MD;

Petro Bachynskii – Doctor of Medical Sciences, Professor

Kostyantin Litvinenko – PhD, Associate Professor, MD;

Dmytro Iershov - PhD, Associate Professor, MD.

The Study program "Medicine" is approved by the Academic Council of the Private Establishment of Higher Educational "Dnipro Institute of Medicine and Public Health".

Academic Council's decision № 2, dated 17th October, 2018.

Launched in 2019/2020 academic year.

Amendments to the Study Program:

Academic Council's Decision № 3/1, dated 30th May, 2019.

Academic Council's Decision № 4, dated 20th May, 2020.

EXTERNAL APPROBATION

Dr. Yurii Vdovychenko

Doctor of Medical Sciences, Professor, Vice-Rector of the P. Shupyk National Medical Academy of Postgraduate Education

Dr. Hennadii Rozhkov

Doctor of Medical Sciences, Professor of the Department of General Hygiene of Ukrainian Military Medical Academy

LIST OF ABBREVIATIONS USED

NQF - National Qualifications Framework;

SP – Study Program;

PC - professional competencies;

GC - general competencies;

PLO - program learning outcomes;

CTEA – Classification of the Types of Economic Activities.

Codes:

OK - compulsory educational component;

BK - optional educational component.

2. THE STUDY PROGRAM PROFILE

1 – General information				
Full name of the higher educational establishment and structural subdivision	Private Establishment of Higher Education "Dnipro Institute of Medicine and Public Health"			
Degree of higher education	Master's Degree			
Professional qualification	Doctor of Medicine			
Educational qualification	Master of Medicine			
The official name of the Study Program	Medicine			
Type of diploma and scope of Study Program	Master's Diploma, single type, 360 ECTS credits.			
Duration of study	 Students enrol: to the 1st year of study on the basis of complete general secondary education (duration of study – 5 years and 10 months (12 semesters); to the 2nd year of study on the basis of qualification level of Junior Specialist /Junior Bachelor (duration of study – 4 years 10 months (10 semesters). In this case only 30 previously awarded ECTS credits are recognized and transferred. 			
Awarding of Degree and Professional Qualification	Students who have successfully passed all types of Attestation are awarded the "Master's Degree in Medicine" and the appropriate professional qualification of "Doctor of Medicine" based on the decision of the Examination Commission and are granted the diploma of higher education. A student who have received an unsatisfactory grade or been admitted to the Attestation, but for any reason did not pass the Attestation, are expelled from the KHIM. Afterwards, a student has the right to repass the Attestation not earlier than in one year during the next three years. Academic Transcript is issued for such a student upon request.			
Accreditation	To be accredited to the 1 st time			

Cycle / level	National Qualification Framework of Ukraine (NQF) - level 8;				
	Qualifications Framework in the European Higher Education Area				
	- second cycle;				
	European Qualification Framework for Lifelong Learning – level 7				
Prerequisites for	Ukrainian citizens are admitted based on:				
enrolment	- complete general secondary education and the external				
	independent assessment;				
	- previously gained educational qualification level of Junior				
	Specialist or Junior Bachelor and based on the results of external				
	independent assessment and professionally based exam (upon				
	admission to the 2^{nd} year of study).				
	For foreign citizens and stateless persons, admission is based on				
	complete general secondary education and the results of two entrance exams: language proficiency exam (Ukrainian or English)				
	and chemistry exam.				
Languages of study	Ukrainian or English				
Languages of study	Okraman or English				
Term of validity of	Till the end of 2023/2024 study year				
the Study Program					
Web-address of the	http://dimh.kmu.edu.ua/study-programs/				
permanent					
placement of the	placement of the				
Study Program	Study Program				
	2 – The aim of the study program				

Training of highly qualified specialists in medicine and promoting the development of public health in Ukraine, based on the principles of evidence-based medicine, taking into account world experience and the principles of Euro-Atlantic integration in the field of healthcare.

Upon completion of the Study Program graduates must be able to perform organizational, diagnostic, medical and research activities in Healthcare institutions, in compliance with national and international standards.

3 – Peculiarities (specifications) of the Study Program			
Level of higher	Second (Master's)		
education:			
Degree of higher	Master		
education			
Field of knowledge	22 "Healthcare"		
Specialty	222 "Medicine"		
Mode of study	Full-Time		
Orientation of the	The Study Program is professionally and practically oriented.		
Study Program			
The main focus of	The main focus of the first three years of study are:		
the Study Program	- Basic biomedical sciences, which consist of the fundamental		
	educational components aimed at understanding and application		
of clinical science;			
	- Behavioural and Social Sciences educational components ensures		

mastering of the competencies consolidated in the following domains:

- -Mind body interactions in health and disease;
- Patient behavior;
- Physician role and behavior;
- Physician patient interactions;
- -Social and cultural issues in Healthcare;
- Health policy and economics.

The main focus of IV-VI years of study is mastering the **Clinical** sciences which include the knowledge and related professional skills required for the student to assume appropriate responsibility for patient care after graduation.

Modularization

The full scope of the SP "Medicine" is 360 ECTS Credits, 75 % of which (270 ECTS Credits) are allotted for compulsory ECs and 25% (90 ECTS Credits) are allotted for optional ECs. Such distribution is stipulated in the Law of Ukraine "On higher education" that requires that not less than 25% out of the total ECTS Credits of the program should be provided as optional ECs. Totally the SP comprises 108 ECs, 55 of which are compulsory and 53 are optional. The duration of EC varies from 1 to 6 semesters. Optional EC are divided into 24 blocks. Students are required to pick one optional EC of each block during studies. Both compulsory and optional EC are awarded with ECTS Credits.

The SP "Medicine" is structured in two phases:

1. Preclinical Phase includes:

- a. Basic Biomedical Sciences Training (13 compulsory EC covering 92 ECTS Credits);
- b. Behavioral and Social Sciences Training (8 compulsory EC and 6 optional blocks, covering 58 ECTS Credits).

2. Clinical Phase includes:

a. Clinical Sciences Training (36 compulsory EC and 18 optional blocks, covering 200 ECTS Credits);

b. Clinical Practice and Clerkships (18 ECTS Credits).

Phase	Cycle	Quantity of Compulsory ECs	Quantity of Blocks with Optional ECs	Number of ECTS Credits
Preclinical	Basic Biomedical Sciences	13	6	92
	Behavioral and Social Sciences	8		58
Clinical	Clinical Sciences	16	18	192
	Clinical Practice and Clerkship	4	-	18
Total:		57	24	360

Features of the

Features of the Study Program are student-centered and case-

Study Program

based learning approach with use of cutting-edge digital technologies.

Training is carried out in small groups and linked to the principles of evidence-based medicine.

In addition, Study Program includes the possibility of international clerkships, learning of foreign languages and advantage of international mobility, as well as mobility within Institutions of Medical Academic Consortium.

Another feature of the Study Program is Individual Learning Pathway, which is a route taken by a learner allowing him/her to build knowledge progressively and acquire the desired set of competences. The Learning Pathway may be 'signposted' through institution guidance and regulations (including the recognition of prior learning and experience) and different learning pathways may lead to the award of the same qualification. In essence the concept of a 'learning pathway' emphasises the choice of the student in reaching the desired educational goals.

Optional educational components provides student with a possibility to deepen professional knowledge within Study Program and achieve additional professional competencies.

Suitability of graduates to employment and further training

Suitability for employment (professional rights of graduates)

Upon successful completion of the Study Program "Medicine" with the professional qualification the Doctor of Medicine:

Ukrainian graduates are able to work on the following positions (according to the Ukrainian Classifier of Professions ДК 003: 2010):

- Intern doctor
- Trainee doctor
- Resident doctor

According to the National Classification of Economic Activities (NCEA), a graduate may work in institutions (or as a self-employed person) according to the following NCEA codes ДК 009: 2010:

- 86.10 Operating of hospitals
- 86.21 General medical care
- 86.90 Other healthcare activities

In addition, the Doctor of Medicine can work in Healthcare facilities, research institutes, higher education institutions and international organizations operating in the field of Healthcare and public health.

- Foreign citizens after graduation can carry out further practical activity only after obligatory fulfilment of postgraduate education and licensing in accordance with the regulations of certain country where they aim to pursue the Healthcare career.

Further training Upon successful completion of the Study Program "Medicine" with (academic rights of the professional qualification the Doctor of Medicine further graduates) training is available in the form of: -Postgraduate Education programs - Internship, Residency in various specialties; -Higher Education programs - PhD training in various specialties. 5 – Teaching and Assessment Teaching and The teaching process is competency-oriented, student-centred, Learning problem-oriented with application of research learning, aiming at preparing students for clinical practice, through the use of clinical cases. It is focused on the acquisition of basic professional competencies by the student. Educational approaches at all levels of educational process can be: Individual; Group; Collective; Research And are implemented via: - classes (lectures, seminars, practical classes, tutorials); - self-directed learning (self-education of particular topics of educational components defined by faculty staff); practical training (traineeship, clerkships, research work, learning at bedside); Digital technologies are utilized while performing all abovementioned types of classes. Student's performance assessment is carried out using European Assessment credit transfer system (ECTS). Study results and assessment criteria are determined separately for each educational component of the Study Program. Students are awarded credits only for those educational components, on which all planned learning outcomes are reached, all necessary assignments are completed and a particular form of

final control is passed.

Assessment methods:
- Ongoing assessment, which is carried out during practical, laboratory, seminar classes and reflects the current progress in achieving of learning outcomes;

- Final assessment, that reflects if a student has achieved Program Learning Outcomes of the particular educational component (for the internal final assessment) and of the whole Study Program (for the external final assessment).

Internal final assessment is carried out in three forms: differentiated credit, credit or exam;

External final assessment is carried out in the form of Unified State Qualification Examination (USQE), which consists of:

After 3rd year of study:

- KROK-1 exam;
- English for professional purposes exam

After 6th year of study:

<u> </u>					
	- KROK-2				
	- Objective Structured Clinical (Practical) Examination.				
Grading Scale	University grading scale	ECTS grade	Descriptor	Awarding of credits	
	180 - 200	A	Excellent	Passed	
	170 - 179	В	Very Good	1 asseu	
	160 - 169	C	Good		
	141 - 159	D	Satisfactory		
	120 - 140	E	Sufficiently		
	100 - 119	Fx	Unsatisfactory with possible repassing of final assessment	Failed	
	<100	F	Unsatisfactory with the mandatory repeated study of EC		
	6 – 1	Program	Competencies		
IC (Integrated	Ability to:				
Competencies)	•	to integr	ate knowledge to solve typic	al and complex	
Competencies	specialized pr	_	ate knowledge to solve typic	ar and complex	
				1	
			practical problems in medica		
	-	*	es and methods of basic bion	*	
	behavioral ar	nd social	sciences and clinical science	s;	
	IC 3. Ability	to deal w	ith an uncertainty and adap	ot to new	
	situations.		-		
GC (General		ty to d	emonstrate knowledge of	established and	
· .		•			
Competencies)	_		clinical, social and behavi		
	_	-	n of this knowledge to a pati		
	GC 2. Abilit	y to der	nonstrate the qualities req	guired to sustain	
	lifelong perso	nal and	professional growth;		
	GC 3. Interpersopnal and communication skills that result in the				
	effective exchange of information and collaboration with patients,				
	= =				
	their families, and health professionals;				
			nunicate in the native and	foreign language	
	both orally a		_		
			a commitment to carrying		
	-		n adherence to ethical princi	•	
		•	act socially responsible a	and demonstrate	
	_		and respect for others;		
	GC 7. Abilit	y to foll	low the principles of ecolo	ogical safety and	
	resolve issue	s linked	to the ecological consequenc	es of professional	
	activities.			•	
PC (Professional		to carry	out a consultation with a pa	tient:	
	_	•	<u>-</u>		
competencies)			s clinical presentations, ord		
		_	gnoses, and negotiate a man	-	
	_	_	ride immediate care of med	ical emergencies,	
	including Fir	st Aid an	d resuscitation;		
	PC 4. Ability	to prescr	ribe drugs;		
	•	-	out practical procedures;		
	_	-	-	ical contout.	
	PC 6. Ability to communicate effectively in a medical context;				
	PC 7. Ability to apply ethical and legal principles in medical				
	practice;				
	PC 8. Abilit	y to ass	sess psychological and soc	cial aspects of a	

patient's illness;

PC 9. Ability to apply the principles, skills and knowledge of evidence-based medicine;

PC 10. Ability to use information and information technology effectively in a medical context;

PC 11. Ability to apply scientific principles, method and knowledge to medical practice and research;

PC 12. Ability to promote health, engage with population health issues and work effectively in a Healthcare system;

PC 13. Ability to determine the tactics of physiological pregnancy care, childbirth care and the postpartum period;

PC 14. Ability to ensure the quality and safety of medical care;

PC 15. Ability to organize medical and evacuation activities during the emergency and combat operations, including in the field.

7 – Program Learning Outcomes

PLO (Program Learning Outcomes)

PLO1 To work as a team player, ensuring effective communication in an interdisciplinary and multicultural environment.

PLO2 To evaluate the impact of the environment on the state of health of the population in the conditions of a medical institution by standard methods. Determine the current sanitary and hygienic condition of the environment.

PLO3 To collect anamnesis, carry out physical examination, evaluate mental, psychomotor and physical state of the patient.

PLO4 Identify and determine the leading clinical symptoms and syndromes (according to the list 1), determine the preliminary diagnosis of the disease (according to the list 2).

PLO5 Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment.

PLO6 Provide the patients and their relatives with explanation and advice, reassurance and support.

PLO7 Recognize and assess the severity of clinical presentations.

PLO8 Assign investigation methods (according to the list 4) and interpret the obtained results.

PLO9 Carry out differential diagnostics.

PLO10 To determine the principles and methods of providing medical care to patients with diseases (according to the list 2) in inpatient and outpatient conditions in accordance with the unified medical care clinical protocols.

PLO11 Provide qualified medical care, psychological and social support to patients in the terminal stages of the disease, as well as their family members.

PLO12 Provide appropriate management for chronic illness. Manage Work Capability Assessment.

PLO13 Recognize and assess acute medical emergencies (according to the list 3).

PLO14 Determine tactics and provide immediate care of medical emergencies, including First Aid and resuscitation (according to

the list 3).

PLO15 To provide basic life support and cardio-pulmonary resuscitation according to current European guidelines.

PLO16 Be able to provide advanced life support according to current European guidelines.

PLO17 Match appropriate drugs and other therapies to the clinical context, prescribe drugs clearly and accurately.

PLO18 Review the appropriateness of drug and other therapies and evaluate potential benefits and risks.

PLO19 Perform medical procedures and manipulations (according to the list 5).

PLO20 Communicate effectively with colleagues, patients, families, disabled people and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds.

PLO21 Use oral and writing communication in state and foreign languages in professional activities.

PLO22 Demonstrate a commitment to ethical principles pertaining to provision or withholding of care, confidentiality, informed consent, and business practices, including compliance with relevant laws, policies, and regulations.

PLO23 Be able to certify death and request autopsy.

PLO24 To conduct professional activities in compliance with the civil rights, freedoms and obligations; apply national and European law to clinical care.

PLO 25 Assess the impact of psychological and socio-economic factors on the health of the individual, family and the general population.

PLO26 Detect stress in relation to illness, detect alcohol and substance abuse and other dependency.

PLO27 Apply established and emerging principles of clinical sciences to diagnostic and therapeutic decision-making, clinical problem-solving, and other aspects of evidence-based Healthcare.

PLO28 To conduct an independent data research, analysis and synthesis from various sources, critically appraise medical literature and use obtained results in professional activity.

PLO29 Use information and information technology effectively in a medical context, keep accurate and complete clinical records in compliance with national legislation and local regulations.

PLO30 To apply cutting-edge IT and digital technologies in professional activities.

PLO31 To apply scientific principles, methods and knowledge to medical practice and research.

PLO32 Provide patient care which minimizes the risk of harm to patients.

PLO33 Apply measures to prevent the spread of infection.

PLO34 Screen for infectious disease and disease surveillance.

PLO35 Promote health, engage with population health issues and cooperate effectively with Healthcare system stakeholders.

	PLO36 Analyze strategies, politics and interventions in the public		
	health sphere and propose measures aimed at increasing the		
	effectiveness of financing from various sources, including the		
	National Health Service of Ukraine.		
	PLO 37 Know the organizational principles of providing medical		
	services under the program of state guarantees of medical care in		
	Ukraine.		
	PLO38 Know the basics of marketing and tools for promoting		
	medical services in the market.		
	PLO39 Plan activities for own continuous professional		
	development and design a personal educational portfolio.		
	PLO40 Depending on the nature and severity of the disease,		
	prescribe the optimal mode of activity and determine the plan of		
	rehabilitation of patients.		
	PLO41 Determine the plan and tactics of physiological pregnancy		
	care, physiological childbirth care and the postpartum period.		
	PLO42 Ensure the quality and safety of Healthcare.		
	PLO43 To organize medical and evacuation activities during the		
	emergency and combat operations, including in the field.		
	8 – Resources for program implementation		
Staffing	The best faculty, staff, and learners are utilized for ensuring the		
	highest quality of delivering the Study Program and they work		
	together for the greater good.		
	Academic staff delivering the Study Program have experience in		
	teaching, research, management, educational and innovative work		
	in the field of Healthcare, and meet the requirements approved in		
	the Resolution of Cabinet of Ministers of Ukraine №1187, dated		
	December 30th, 2015.		
	Academic staff, delivering classes in English, are fully certified		
	with English proficiency tests and courses with the level B2 and		
	higher.		
Resources,	The physical/material components of the Study Program include:		
Facilities and	- laboratories;		
Equipment	- classrooms, equipped with multimedia panels and/or projectors		
	and Smart-Boards, which substitutes 8 devices that are commonly		
	used in the educational process: computer, tablet, projector,		
	projection screen, microphone, speaker, camera, writing		
	whiteboard;		
	- computer labs;		
	- Center for Simulation Training and Assessment, equipped with		
	cutting-edge simulators, phantoms and 3-D models;		
	- Affiliated teaching hospitals with fully equipped facilities for		
	learning at bedside;		
	- sports and recreation facilities;		
	- dormitory;		
	- tools and supplies that support learning.		
Informational and	While delivering the Study Program faculty members use open		
methodical support	educational resources which are: teaching, learning, and resource		
	materials, tools, and media that reside in the public domain and		

	may be used and repurposed freely by students. Particularly, faculty members and students of MAC use "PrExam" platform, which consists of training and control modules and allows to create a virtual educational environment for teachers and students. During the pandemic emergency response, this resource has become one of the major tools for distance learning at the Institute. Along with Pre-Exam we use Google Apps for Education and the multi-user cross-platforms, that facilitates accelerated learning and teaching in medical sciences and anatomy across desktop, mobile, and augmented reality devices delivering 3D sessions. Students have access to the institute library, reading halls, electronic library, educational portal of the Institute and resources of Sciencedirect and Scopus by Elsevier, National Medical Library of Ukraine and Alfred Nobel University Library.
	9 – Academic mobility
National credit	National credit mobility is based on the agreements between
mobility	Higher Educational Establishments of Ukraine. The program
	provides an opportunity for credit mobility among the Medical
	Academic Consortium, which unites Kyiv Medical University,
	Kharkiv Institute of Medicine and Biomedical Sciences and the
International	Dnipro Institute of Medicine and Public Health. Mobility in higher education mainly takes place through the
credit mobility	Erasmus European Programme. Erasmus promotes the
	cooperation between higher education institutions focusing on the improvement of educational quality and the enhancement of the European dimension in higher education. It is implemented on the basis of an agreement between Kyiv Medical University and the Silesian Medical University in Katowice (Republic of Poland). The Study Program offers credit mobility based on agreements with Aichi Medical University (Japan) and Kazakhstan Medical University of Continuing Education. Besides International credit mobility, these agreements include: development of mutual Study Programs and student
	mobility;
	- joint internships for students;
	- conducting of joint research, which includes mutual financing;
	- publication of joint research results in international
	journals.
International	Training of International Students is conducted in English and
Students Teaching	Ukrainian in accordance with the requirements of the Ukrainian
	legislation. It is obligatory for International Students to study a
	separate educational component "Ukrainian as a Foreign Language". Knowing Ukrainian language allows them to actively
	participate in classes when they reach the Clinical Sciences cycle
	which is performed with learning at bedside. International
	students do not take the educational component "Training of

3. LIST OF EDUCATIONAL COMPONENTS OF THE STUDY PROGRAM

Code	Educational components of the Study Program	Number of credits	Form of final control			
	COMPULSORY COMPONENTS (OK)					
	Preclininical Phase					
	I. Basic biomedical sciences trai	ning				
ОК1	Medical Biology	5,5	Exam			
ОК2	Medical and Biological Physics	4	Differentiated Credit			
ОК3	Medical Chemistry	4	Differentiated Credit			
ОК4	Bioorganic Chemistry	3	Credit			
ОК6	Human Anatomy	14,5	Exam			
ОК7	Histology, Cytology and Embryology	11,5	Exam			
ОК10	Biological Chemistry	6,5	Exam			
ОК11	Medical Informatics	3,5	Differentiated Credit			
ОК12	Microbiology, Virology and Immunology	8,5	Exam			
ОК13	Physiology	10	Exam			
Total:	, , ,	71				
	II. Behavioural and social sciences	training				
ОК5.1	Ukrainian Language (professionally oriented)*	5	Credit			
ОК5.2	Foreign Language *	5	Credit			
ОК5.3	Ukrainian as a Foreign Language**	10	Credit			
ОК8	Safety of Life Activity	1,5	Credit			
ОК9	Physical Training	0	Credit			
ОК14	Hygiene and Ecology	9	Differentiated Credit			
ОК16	Labor Protection in Medicine	3	Credit			
ОК25	Medical Psychology	3	Credit			
ОК26	Social Medicine and Public Health	6	Differentiated Credit			
Total:		45,5	-			
	Clinical Phase	· ·				
	III. Clinical sciences training	g				
ОК15	Clinical Anatomy and Operative Surgery	3	Differentiated Credit			
ОК17	Patient's Care (practical session)	5	Differentiated Credit			

ОК18	Pathomorphology	7	Exam
ОК19	Pathophysiology	7	Exam
ОК20	Pharmacology	7	Exam
		-	Differentiated
ОК21	Propedeutics of Internal Medicine	6	Credit
			Differentiated
ОК22	Propedeutics of Pediatrics	5	Credit
			Differentiated
ОК23	General Surgery	6	Credit
			Differentiated
ОК24	Radiology	4	Credit
0.740.7			Differentiated
ОК27	Nursing practice	3	Credit
O.T.A.o.o.	7		Differentiated
ОК28	Internal Medicine	17,5	Credit
ОК29	Endocrinology	2	Credit
ОК30	Medical Genetics	1	Credit
OIC01	D 1:	10	Differentiated
ОК31	Pediatrics	10	Credit
ОК32	Surgery / Pediatric Surgery	15	Exam
OILOO		10.5	Differentiated
ОК33	Obstetrics and Gynecology	10,5	Credit
ОК34	Neurology	4	Exam
ОК35	Lindow	1	Differentiated
Onso	Urology	1	Credit
			Differentiated
ОК36	Otorhinolaryngology	3	Credit
ОК37	Ophthalmology	3	Differentiated
Oitor	Opiniamiology	0	Credit
ОК38	Psychiatry and Narcology	1	Differentiated
0100	1 by officially and 1 various gy		Credit
ОК39	Dermatology and Venereology	3	Differentiated
01100			Credit
ОК40	Epidemiology and Principles of Evidence-	3	Differentiated
	Based Medicine		Credit
ОК41	Inpatient Clinical Clerkship	5	Differentiated
	1		Credit
ОК42	Clinical Immunology and Allergology	2,5	Differentiated
OIC 40		-	Credit
OK43	Clinical Pharmacology	1	Credit
ОК44	Occupational Diseases	1,5	Credit
ОК45	Oncology	1	Differentiated
ОК46	Dadiation Madiaira	1	Credit
	Radiation Medicine		Credit
ОК47	Neurosurgery	0,5	Credit Differentiated
ОК48	Infectious Diseases	2,5	
			Credit

ОК49	Pediatric Infectious Diseases	3	Credit		
ОК50	Phthisiology	3	Differentiated Credit		
ОК51	Anaesthesiology and Intensive Therapy	3	Differentiated Credit		
ОК52	Emergency Medical Aid	3	Differentiated Credit		
ОК53	Outpatient Clinical Clerkship	5	Differentiated Credit		
ОК54	Pulmonology	3	Differentiated Credit		
ОК55	General Practice (Family Medicine)	4,5	Differentiated Credit		
Total:		163,5			
Total nun		270			
	OPTIONAL COMPONENTS (B				
	II. Behavioural and social sciences t Block 1	raining			
	DIOCK 1		Differentiated		
ВК 1.1	History of Ukraine and Ukrainian culture	3	Differentiated Credit		
ВК 1.2	Culturology	3	Differentiated Credit		
	Block 2	•			
ВК 2.1	Latin Language	3	Differentiated Credit		
ВК 2.2	Medical Terminology	3	Differentiated Credit		
	Block 3				
ВК 3.1	Philosophy of Pedagogics and Education	3	Differentiated Credit		
ВК 3.2	Philosophy of Communication	3	Differentiated Credit		
	Block 4				
ВК 4.1	History of Medicine	3	Credit		
ВК 4.2	Religions and the Medical Science	3	Credit		
	Block 5				
ВК 5.1	Basics of Bioethics and Biosafety	1,5	Credit		
ВК 5.2	Medical Deontology	1,5	Credit		
Block 6					
ВК 6.1	Ukrainian as a Foreign Language**	18	Credit		
ВК 6.2	Foreign Language (professionally oriented) *	18	Credit		
ВК 6.3	Culture of Speech	18	Credit		
Block 7					
ВК 7.1	Forensic Medicine. Ukrainian Medical Legislation	3	Credit		
ВК 7.2	Legal Aspects of Forensic Medicine	3	Credit		
	Block 8				

Health Economics and Social Medicine 3 Differentiated Credit	ВК 8.1	Social Medicine and Public Health. Regional Programs	3	Differentiated Credit
Block 9 BK 9.1 Physical Rehabilitation and Sports Medicine BK 9.2 Ergotherapy and Kinesiotherapy Block 10 BK 10.1 Palliative and Hospice Medicine BK 10.2 Gerontological Aspects in Palliative and Hospice Medicine BK 11.2 Fundamentals of Urology BK 11.2 Fundamentals of Urology BK 12.1 Fundamentals of Narcology BK 12.2 Fundamentals of Sexology and Sexopathology BK 12.2 Fundamentals of Sexology and Sexopathology BK 12.2 Fundamentals of Sexology and Sexopathology BK 13.1 Surgery / Pediatric Cardiac Surgery BK 13.2 Vascular Surgery BK 13.2 Vascular Surgery BK 14.1 Clinical Oncology BK 14.2 Oncohematology BK 14.2 Internal Medicine / Side Effects of Medications BK 15.1 Internal Medicine / Side Effects of Medications BK 15.2 Modern Endoscopic Technologies BK 16.1 Pediatrics and specialized learning of Pediatric Pulmonology BK 16.2 Pediatric Nephrology BK 17.1 Training of Reserve Officers (Specialty "Medicine")* BK 17.1 Training of Genetic Disorders BK 17.2 Psychosocial Rehabilitation after Combat Operations BK 17.3 Tactical Medicine BK 18.1 Obstetrics and Gynecology with specialized learning of Genetic Disorders BC Credit BK 18.1 Obstetrics and Gynecology with specialized learning of Genetic Disorders	ВК 8.2		3	Differentiated Credit
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BK 17.3 Tactical Medicine 3 Credit Block 18 BK 18.1 Obstetrics and Gynecology with specialized learning of Genetic Disorders 2	ВК 17.2	Psychosocial Rehabilitation after Combat	3	Credit
Block 18 BK 18.1 Obstetrics and Gynecology with specialized learning of Genetic Disorders 2 Credit	ВК 17.3	±	3	Credit
BK 18.1 Obstetrics and Gynecology with specialized learning of Genetic Disorders				,
	ВК 18.1	Obstetrics and Gynecology with specialized	2	Credit
DIG TO A T DIGHTEGHEAT ASCECTS OF RECHONORING V	ВК 18.2	Biomedical Aspects of Reproductology	2	Credit

Block 19				
ВК 19.1	Traumatology and Orthopedics	3	Differentiated Credit	
ВК 19.2	Traumatology, Orthopedics and Rehabilitation	3	Differentiated Credit	
Block 20				
ВК 20.1	Infectious Diseases / Pediatric Viral Diseases	2	Credit	
ВК 20.2	Prevention and Control of Infectious Diseases	2	Credit	
Block 21				
ВК 21.1	Internal Medicine with specialized learning of Cardiology	4,5	Differentiated Credit	
ВК 21.2	Internal Medicine with specialized learning of Pulmonology	4,5	Differentiated Credit	
Block 22				
ВК 22.1	Pediatric Gastroenterology	5	Credit	
ВК 22.2	Pediatric Allergology	5	Credit	
Block 23				
ВК 23.1	Emergency Thoraco-Abdominal Surgery	5,5	Differentiated Credit	
ВК 23.2	Neurosurgical Issues of Cerebrovascular Pathology	5,5	Differentiated Credit	
Block 24				
ВК 24.1	Role of Public Health System during a Pandemic	4	Credit	
ВК 24.2	Parasitic Infections among Children	4	Credit	
Total number credits for optional educational				
components:				
TOTAL FOR WHOLE STUDY PROGRAM:		360		

^{* -} for Ukrainian citizens

4. ATTESTATION OF STUDENTS OF THE STUDY PROGRAM

Forms of Attestation of graduates of the Study	Attestation of students is carried out in the form of the Unified State Qualification Examination (USQE).
Program	The Unified State Qualification Examination (USQE) consists of the following components: After 3rd year of study: - KROK-1 exam; - English for professional purposes exam After 6th year of study: - KROK-2 exam; - Objective Structured Clinical (Practical) Examination.
	The procedure and requirements for conducting USQE are

^{** -} for international students

	defined by the Resolution of the Cabinet of Ministers of Ukraine (№334, dated March 28th, 2018).
Documents on successful completion of the Study Program	Upon completion of the Study Program, graduates are awarded: -the state standard Master's Degree Diploma -professional qualification "Doctor of Medicine" -Diploma Supplement of the European standard as an integral part of the diploma.

APPENDIX 1. LOGICAL STRUCTURE OF THE DOCTOR OF MEDICINE STUDY PROGRAM

APPENDIX 2. MATRIX OF CORRESPONDENCE OF THE PROGRAM COMPETENCIES TO THE EDUCATIONAL COMPONENTS

APPENDIX 3. MATRIX OF CORRESPONDENCE OF PROGRAM LEARNING OUTCOMES TO THE EDUCATIONAL COMPONENTS

APPENDIX 4. LISTS:

- LIST 1. SYNDROMES AND SYMPTOMS;
- LIST 2. DISEASES;
- LIST 3. EMERGENCY STATES;
- LIST 4. LABORATORY AND INSTRUMENTAL RESEARCH;
- LIST 5. MEDICAL MANIPULATIONS.

5. Legislation and regulations in medical education sphere

- 1. Law of Ukraine "On Higher Education" 07/01/2014 №561556-VII.
- 2. Law of Ukraine "On Education" 09/05/2017 №2145-VIII.
- 3. Resolution of the Cabinet of Ministers from 04/29/2015 № 266 "On approval of the list of branches of knowledge and specialties for which higher education students are trained."
- 4. Resolution of the Cabinet of Ministers of Ukraine from 03/28/2018 № 334 "On approval of the Procedure for conducting a single state qualification exam for applicants for a master's degree in the field of knowledge" Health "."
- 5. Resolution of the Cabinet of Ministers of 13/23/2013 №341341 "On approval of the National Qualifications Framework".
- 6. National Classifier of Ukraine: "Classifier of Professions" DK 003: 2010 // Publishing House "Sotsinform". 2010.
- 7. Order of the Ministry of Economic Development and Trade of Ukraine of 10/18/2014 No 1361 "On approval of the amendment to the national classifier of Ukraine DK 003: 2010" (amendment No 2).
- 8. Resolution of the Cabinet of Ministers of Ukraine of 12/30/2015 № 1187 "On approval of the License conditions for educational activities of educational institutions" (as amended).
- 9. Methodical recommendations for the development of standards of higher education // Order of the Ministry of Education and Science of Ukraine dated 06/01/2016 No600 (as amended by the order of the Ministry of Education and Science of Ukraine dated 10/01/2019 No1254).
- 10. International regulations and standards governing the professional activities and training of physicians:
- 10.1. Directive 2005/36 / EC OF the European Parliament and of the Council of 09/07/2005 on the recognition of professional qualifications
- 10. 2. Directive 2013/55 / EU of the European Parliament and of the Council of 11/20/2013
- 10. 3. WFME Global Standards for Quality Improvement: Basic Medical Education, WFME Global Standards for Quality Improvement: Postgraduate Medical Education and WFME Global Standards for Quality Improvement: Continuous Professional Development and Standards for PhD Education in Biomedicine and Health Sciences in Europe
- 10.4. Standards of medical care in Ukraine.

The above mentioned standards are taken into account when determining the terms of training, learning outcomes, Certification requirements and quality requirements.

- 10.5. Doctor's Code (Adopted and signed by the All-Ukrainian Congress of Medical Organizations and the X Congress of the All-Ukrainian Medical Society in Evpatoria on 09/27/2009) (http://www.uapravo.net/akty/postanowy-osnovni/akt5dprf9d .htm)
- 10.6. Glossary of Terms (Annex III). Erasmus + Program Guide.
- 10.7. Policy Brief Accreditation of Institutions for Health Professional Education.
- 10.8. Glossary of Medical Terms. Howard University, College of Medicine.
- 10.9. LCME Accreditation, Harvard University, Medical School.
- 10.10. Competencies and Objectives for Medical Student Education. Medical Program Student Handbook. Stanford University.
- 10.11. Toward a Common Taxonomy of Competency;

- 10.12. Domains for the Health Professions and Competencies for Physicians, Robert Englander, MD, MPH, Terri Cameron, MA, Adrian J. Ballard, Jessica Dodge, Janet Bull, MA, and Carol A. Aschenbrener, MD;
- 10.13. Tuning Process, Reference List of General Physician Competencies, AAMC