

MINISTRY OF HEALTH OF UKRAINE  
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Forensic Medicine, Medical Law  
named after Honored Professor M.S. Bokarius

Academic year 2021-2022

**SYLLABUS OF THE EDUCATIONAL COMPONENT**

**«Modern aspects of forensic traumatology»**

Normative or selective educational component selective

Form of education full-time

Branch of knowledge 22 «Healthcare»

Specialty 222 «Medicine»

Specialization (in the presence) \_\_\_\_\_

Educational and professional program (educational and scientific program)  
EPP «Medicine»

The second master's level of higher education

Course V

The syllabus of the discipline was  
considered at a meeting of the  
Department of Forensic Medicine,  
Medical Law named after the  
Honored Professor. MS Bocarius

Protocol from  
“30” August 2021 year № 11

Head of Department  
\_\_\_\_\_  
O. Dunaev

Approved by the methodical  
commission of KhNMU on  
problems of surgical profile

Protocol from  
“ \_\_\_\_\_ ” \_\_\_\_\_ 2021 year № \_\_\_\_\_

Head  
\_\_\_\_\_  
V. Sipliviy

## SILABUS DEVELOPERS:

1. Khizhnyak V. – associate Professor of the Department of Forensic Medicine, Medical Law named after Honored Professor M.S. Bokarius, MD, PhD \_\_\_\_\_

(прізвище, ім'я та по-батькові, посада, вчене звання, науковий ступінь)

2. Bondarenko V.– associate Professor of the Department of Forensic Medicine, Medical Law named after Honored Professor M.S. Bokarius, MD, PhD \_\_\_\_\_

(прізвище, ім'я та по-батькові, посада, вчене звання, науковий ступінь)

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**INFORMATION ABOUT TEACHERS WHO TEACH  
EDUCATIONAL COMPONENT**

Information about the teacher	<b><i>Bondarenko Vladislav Viktorovich</i></b>
Information about the teacher	Professional interests: forensic medicine, jurisprudence, medical law of Ukraine Teacher profile : <a href="http://31.128.79.157:8083/user/files.php">http://31.128.79.157:8083/user/files.php</a>
Contact phone	+38(093) 754-05-54
E-mail:	<a href="mailto:vv.bondarenko@knu.edu.ua">vv.bondarenko@knu.edu.ua</a>
Information about the consultations:  <u>off-line consultations</u> schedule :  venue :  <u>on-line consultations</u>	every Thursday from 15.00 to 17.00  Kharkiv, Trinklera street 6, Department of Forensic Medicine, Medical Law named after Honored Professor M.S. Bokarius (3rd floor)  by prior arrangement , <a href="http://31.128.79.157:8083/mod/bigbluebuttonbn/view.php?id=37924">http://31.128.79.157:8083/mod/bigbluebuttonbn/view.php?id=37924</a>
Location	Trinklera street 6 <a href="https://goo.gl/maps/v6bFs5yZonFD77zcA">https://goo.gl/maps/v6bFs5yZonFD77zcA</a>

Information about the teacher	Khizhnyak Volodymir Volodymirovich
Information about the teacher	Professional interests: forensic medicine, jurisprudence, medical law of Ukraine Teacher profile : <a href="http://31.128.79.157:8083/user/profile.php?id=877">http://31.128.79.157:8083/user/profile.php?id=877</a>
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E-mail:	<a href="mailto:v.v.khyzhniak@gmail.com">v.v.khyzhniak@gmail.com</a>
Information about the consultations:  <u>off-line consultations</u> schedule :	every Thursday from 15.00 to 17.00

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Location	Trinklera street 6 <a href="https://goo.gl/maps/v6bFs5yZonFD77zcA">https://goo.gl/maps/v6bFs5yZonFD77zcA</a>

## INTRODUCTION

**The syllabus of the discipline** «Modern aspects of forensic traumatology» is compiled in accordance with the educational-professional program (EPP) "Medicine" and the Standard of Higher Education of Ukraine (Standard) of specialists of the second (master's) level of knowledge - 22 "Healthcare" specialty - 222 "Medicine".

**Description of the discipline (abstract).** The course "Modern aspects of forensic traumatology" includes information on the main theoretical and methodological issues of forensic traumatology. Knowledge and skills in forensic medicine are a prerequisite for understanding the processes of professional health care. Traumatology is the study of injuries, their diagnosis, treatment and prevention. The great importance of injuries for human health and life, the extraordinary diversity of nature, location, course of injuries, the conditions of their occurrence, determine the fact that traumatology is studied not only by traumatologists who have devoted themselves to studying this problem, but also by a number of other medical professionals. specialties: neurosurgeons, ophthalmologists, dentists, laryngologists, etc. Forensic experts are also actively studying the injury. But aspects of the study of injuries by clinicians and forensic physicians are different and this difference is due primarily to the characteristics of the goals and objectives facing clinicians and forensic experts. The tasks of the clinician include: diagnosis, selection of the most rational method of treatment and its implementation, so that there are as few harmful effects of injury; study of injuries and development of measures for its prevention. The tasks of the forensic expert are different. He must: establish the presence of damage; determine the extent and nature of the damage, the degree of its damage to health and consequences; establish which environmental factor caused the damage; to resolve the issue of the mechanism of damage; to find out whether there is a causal link (direct or indirect) between the influence of an external factor and the health disorder or death of the victim.

**The subject** of the discipline is the acquisition by students of higher education of theoretical knowledge and practical skills necessary for practical activities in the field of health care, as well as in everyday life against the background of high legal awareness and legal culture, as well as legal nihilism.

**Interdisciplinary relationships.** The discipline "Modern aspects of forensic traumatology" is a necessary component of the formation of the doctor's personality in higher medical school, it is associated with knowledge of socio-humanitarian and natural sciences - normal and pathological anatomy, normal and pathological physiology, radiology, internal medicine, pediatrics, surgery, obstetrics and gynecology, traumatology, forensics.

**Prerequisites.** The study of the discipline involves the prior mastering of credits for control and monitoring of activities in higher education institutions, the quality of the educational process.

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

## **Link to the discipline page in MOODLE**

<http://31.128.79.157:8083/user/files.php>

### **1. PURPOSE AND TASKS OF THE DISCIPLINE**

**1.1. The purpose of studying the discipline** The discipline "Modern aspects of forensic traumatology" is to provide the future doctor with the necessary theoretical knowledge in the field of traumatic injuries, their age and mechanism of formation, which will ultimately help establish a true diagnosis in clinical practice, as well as assist law enforcement in solving crimes. against the individual.

**1.2. The main objectives of the discipline** are obtaining knowledge, skills and competencies in the case of a doctor performing the functions of a specialist in forensic medicine, as provided by the Criminal Procedure Code of Ukraine, as well as knowledge of the basics of forensic examination, providing practical assistance to law enforcement agencies in cases of crime identification, fixation and assessment the severity of traumatic injuries, as well as the acquisition by a doctor of knowledge, skills and competencies in the field of medical law.

**1.3. Competences and learning outcomes**, the formation of which is facilitated by the discipline.

**1.3.1.** The study of the discipline provides mastering by higher education students of the following **competencies**:

*Integral competence:* the ability to integrate knowledge and solve complex specialized problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility in a multidisciplinary context based on conceptual knowledge, including modern scientific advances in health care , with the ability to draw clear and reasoned conclusions to specialists and non-specialists, and is also the basis for original thinking, continuing education with a high degree of autonomy and conducting research;

*general competencies:* GC1 - Ability to abstract thinking, analysis and synthesis, the ability to learn and be modernly trained; GC2 - Ability to apply knowledge in practical situations; GC3 - Knowledge and understanding of the subject area and understanding of professional activity; GC4 - Ability to adapt and act in a new situation; GC5 - Ability to make an informed decision; work in a team; interpersonal skills; GC6 - Ability to communicate in the state language both orally and in writing; ability to communicate in a foreign language; GC7 - Skills in the use of information and communication technologies; GC8 - Definiteness and persistence in terms of tasks and responsibilities; GC9 - Ability to act socially responsibly and consciously; GC10 - The desire to preserve the environment.

*special (professional) competencies:* PC1 - Survey skills; PC2 - Ability to determine the required list of laboratory and instrumental studies and evaluate their results; PC3 - Ability to establish a preliminary and clinical diagnosis of the disease; PC4 - Ability to determine the required mode of work and rest, the nature of nutrition in the treatment of diseases; PC5 - Ability to determine the principles and nature of treatment of diseases; PC6 - Ability to diagnose emergencies; PC7 -

Ability to determine tactics and skills of emergency medical care; PC8 - Ability to carry out medical and evacuation measures; PC9 - Skills to perform medical manipulations; PC10 - Ability to determine the tactics of physiological pregnancy, physiological childbirth and the postpartum period. Teachers of counseling on family planning and contraception; PC11 - Ability to plan and conduct sanitary and hygienic, preventive and anti-epidemic measures, including infectious diseases; PC12 - Ability to determine the tactics of management of persons subject to dispensary supervision; PC13 - Ability to conduct a performance examination; PC14 - Ability to keep medical records; PC15 - Ability to conduct epidemiological and medical-statistical studies of public health; processing of state, social, economic and medical information; PC16 - Ability to assess the impact of the environment, socio-economic and biological determinants on the health of the individual, family, population; PK17 - Ability to analyze the activities of a doctor, department, health care institution, to take measures to ensure the quality and safety of medical care and increase the efficiency of medical resources; PC18 - Ability to conduct activities for the organization and integration of medical care to the population, and marketing of medical services.

**1.3.2.** The study of the discipline provides students with the acquisition of the following program learning outcomes:

**PLO 1** - acquisition by a person of general and special fundamental and professionally-oriented knowledge, skills, abilities, competencies necessary for the performance of typical professional tasks related to his / her activity in the medical field in the relevant position

**PLO 2** - knowledge of psychophysiological features of man, human health, health support, disease prevention, human treatment, public health Application of knowledge and understanding:

**PLO 3** - the ability to apply the acquired knowledge, skills and understanding to solve typical problems of the doctor, the scope of which is provided by lists of syndromes and symptoms, diseases, emergencies, laboratory and instrumental research, medical manipulations

**PLO 4** - collection of patient information

**PLO 5** - evaluation of survey results, physical examination, laboratory and instrumental research data

**PLO 6** - establishing a preliminary clinical diagnosis of the disease

**PLO 7** - determining the nature, principles of treatment of diseases

**PLO 8** - determination of the necessary diet, mode of work and rest in the treatment of diseases

**PLO 9** - determination of tactics of contingent contingent of persons subject to dispensary supervision

**PLO 10** - diagnosing emergencies, determining the tactics of emergency medical care

**PLO 11** - carrying out sanitary and hygienic and preventive measures

**PLO 12** - planning of preventive and anti-epidemic measures for infectious diseases

**PLO 13** - carrying out medical and evacuation measures

**PLO 14** - determination of tactics of physiological childbirth and postpartum period

**PLO 15** - performance of medical manipulations

**PLO 16** - assessment of the impact of the environment on the health of the population

**PLO 17** - maintenance of medical documentation, processing of state, social and medical information

Formation of judgments:

**PLO 18** - the ability to assess the state of human health and provide its support taking into account the impact of the environment and other health factors

**PLO 19** - the ability to assess the sanitary and hygienic condition of the environment in order to determine the sanitary and hygienic and preventive measures

**PLO 20** - the ability to apply the acquired knowledge of the existing health care system to optimize their own professional activities and participate in solving practical problems of the industry

**PLO 21** - the formation of a specialist with appropriate personal qualities, who adheres to the code of ethics of the doctor

**1.3.3.** The study of the discipline provides students with the following social skills (**Soft skills**):

**Know:**

- 1) regulatory and legal support of forensic activities;
- 2) features of the organization of forensic medical examination in Ukraine;
- 3) types of injuries and causes of their occurrence;
- 4) features of traumatic injuries from the action of blunt objects;
- 5) features of traumatic injuries from the action of sharp objects;
- 6) features of gunshot and explosive injuries;
- 7) features of transport injuries;
- 8) features of injury from falling from a height;
- 9) signs of the severity of injuries;
- 10) types of violent death and features of autopsy in these cases;
- 11) features of the scene inspection in case of violent death;
- 12) capabilities of the forensic laboratory in cases of traumatic injuries;
- 13) features of examination of clothes in cases of traumatic injuries;
- 14) features of research of tools of an injury;
- 15) features of withdrawal of material evidence from the scene.

**Be able:**

- 1) determine the type and severity of injuries;
- 2) describe the injuries;
- 3) determine the type of injury weapon;
- 4) to establish the viability of traumatic injuries and the age of their occurrence;
- 5) set the distance and direction of the shot;
- 6) establish the epicenter of the explosion and the distance of the explosion;
- 7) determine the type and mechanism of traffic injury;



- 8) find, describe and remove material evidence from the scene;
- 9) determine the cause of violent death;
- 10) formulate issues that can be resolved during the forensic examination of the corpse;
- 11) conduct an examination of the victim for bodily injuries;
- 12) determine the percentage of loss of general capacity for work due to injury;
- 13) photograph the damage;
- 14) to make schemes in cases of multiple damages;
- 15) find and describe the damage to the victim's clothes and shoes.

## 2. INFORMATION SCOPE OF THE COURSE

Name indicators	Field of knowledge, specialty, educational degree, EPP	Characteristics of the discipline	
		<b>Full-time form of education</b>	
Number of credits – 3,0	Branch of knowledge 22 "Health care" (code and name)	Normative	
Total hours – 90	Specialty: <u>222 "Medicine"</u> (code and name)	<b>Training year (course):</b>	
		5	
		<b>Semester</b>	
		1	
Hours for full-time study: classrooms - 20 independent work - 70	Educational degree: master EPP <u>"Medicine"</u>	<b>Lectures</b>	
		10 hours	
		<b>Practical</b>	
		10 hours	
		<b>Laboratory</b>	
		-	
		<b>Individual work</b>	
		70 hours	
<b>Individual tasks: -</b>			
Type of final control: <b>credit</b>			

### 2.1. Description of the discipline

№	Names of topics of the discipline	Number of hours					
		Full-time form of study					
		Total	Including				
Lec.	Pract		Lab	Ind.	IWS		
1	Forensic examination of the corpses of persons who died as a result of	10	2	1	–	–	7

	exposure to various vehicles. Forensic medical examination of the corpses of people who died as a result of a car crashing into a pedestrian						
2	Forensic examination of the corpses of people who died as a result of injury inside the cab of the car. Forensic medical examination of corpses of persons who died from moving the wheels of a car Methodology of extraction of biological material for additional research in the examination of corpses of persons who died as a result of car injuries	8	–	1	–	–	7
3	Forensic medical examination of corpses of persons who died during other types of car injuries (falling out of the car body, pressing the car to a stationary obstacle, combined types of car injuries).	10	2	1	–	–	7
4	Forensic examination of the corpses of persons who died in cases of motorcycle injuries	8	-	1	–	–	7
5	Forensic medical examination of the corpses of persons who died as a result of a railway injury	10	2	1	–	–	7
6	Forensic examination of the corpses of persons who died from the impact of prickly objects	8	–	1	–	–	7
7	Forensic examination of the corpses of persons who died as a result of the impact of chopping objects	10	2	1	–	–	7
8	Firearms, ammunition, firing mechanism, additional firing factors, mechanism of action of the projectile on clothing and tissues of the human body	8	–	1	–	–	7
9	Diagnosis of incoming and outgoing gunshot wounds. Establishing the distance of shots, morphological signs of a shot at point-blank range, from near and far. Examination of the wound canal, establishing the direction of the wound canal.	8	–	1	–	–	7

10	Addressing issues of the sequence of gunshot wounds.	10	2	1	–	–	7
	Total hours of discipline	90	10	10	–	–	70

### 2.2.1 Lectures

№	Name topics	Number of hours	Types of lectures
1	Forensic examination of the corpses of persons who died as a result of exposure to various vehicles. Forensic medical examination of the corpses of people who died as a result of a car crashing into a pedestrian	2	Lecture - information, multimedia presentation
2	Forensic medical examination of corpses of persons who died during other types of car injuries (falling out of the car body, pressing the car to a stationary obstacle, combined types of car injuries). Forensic examination of the corpses of persons who died in cases of motorcycle injuries. Forensic medical examination of the corpses of persons who died as a result of a railway injury	2	Lecture - information, multimedia presentation
3	Forensic examination of the corpses of persons who died from the effects of sharp objects. Forensic examination of the corpses of persons who died from the effects of cutting objects. Forensic examination of the corpses of persons who died as a result of falling from a standing position.	2	Lecture - information, multimedia presentation
4	Firearms, ammunition, firing mechanism, additional firing factors, the mechanism of action of the projectile on clothing and tissues of the human body. Forensic examination of gunshot wounds. The main issues that arise during the examination of gunshot wounds.	2	Lecture - information, multimedia presentation
5	Rules for the removal of biological material for additional research: skin wounds, bone damage. Physical and technical methods of research of gunshot wounds. Additional research methods for gunshot wounds.	2	Lecture - information, multimedia presentation
Total hours		10	

## 2.2.2 There are no seminars

### 2.2.3 Practical classes

№ 3/II	Name topics	Num- ber of hours	Methods study	Forms control
1	Forensic examination of the corpses of persons who died as a result of exposure to various vehicles. Forensic medical examination of the corpses of people who died as a result of a car crashing into a pedestrian	1	Explanation story presentation	Test control
2	Forensic examination of the corpses of people who died as a result of injury inside the cab of the car. Forensic medical examination of corpses of persons who died from moving the wheels of a car Methodology of extraction of biological material for additional research in the examination of corpses of persons who died as a result of car injuries	1	Narrative- explanation Presentation video	Oral interview test control
3	Forensic medical examination of corpses of persons who died during other types of car injuries (falling out of the car body, pressing the car to a stationary obstacle, combined types of car injuries). Forensic examination of the corpses of persons who died in cases of motorcycle injuries. Forensic medical examination of the corpses of persons who died as a result of a railway injury	1	Explanation story presentation	Oral interview test control
4	Methods of examination of corpses of persons who died in a plane crash. Forensic examination of the corpses of people who died from injuries in water transport. Forensic examination of the corpses of persons who died during a fall from a height.	1	Explanation story presentation	Oral interview test control
5	Forensic examination of the corpses of persons who died from sharp objects. Forensic examination of the corpses of persons who died from the effects of cutting objects. Forensic examination of	1	Explanation story presentation	Oral interview test control

	the corpses of persons who died as a result of falling from a standing position.			
<b>6</b>	Forensic examination of the corpses of persons who died from the impact of prickly objects. Forensic examination of the corpses of persons who died as a result of the impact of chopping objects	1	Explanation story presentation	Oral interview test control
<b>7</b>	Firearms, ammunition, the mechanism of the shot, additional factors of the shot, the mechanism of action of the projectile on clothing and tissues of the human body. Forensic examination of gunshot wounds. The main issues that arise during the examination of gunshot wounds.	1	Explanation story presentation	Oral interview test control
<b>8</b>	Features of gunshot wounds from hunting weapons. Damage when fired from a defective homemade weapon, during the explosion of grenades, mines, shells, explosives. Methods of research of smoky and smokeless gunpowder	1	Explanation story presentation	Oral interview test control
<b>9</b>	Diagnosis of incoming and outgoing gunshot wounds. Establishing the distance of shots, morphological signs of a shot at point-blank range, from near and far. Examination of the wound canal, establishing the direction of the wound canal. Addressing issues of the sequence of gunshot wounds.	1	Explanation story presentation	Oral interview test control
<b>10</b>	Rules for the removal of biological material for additional research: skin wounds, bone damage. Physical and technical methods of research of gunshot wounds. Additional research methods for gunshot wounds	1	Explanation story presentation	Oral interview test control
	Total hours	<b>10</b>		

#### 2.2.4. There are no laboratory classes

#### 2.2.5. Individual work

№ з/п	Topics	Num- ber of hours	Methods study	Forms control
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<b>1</b>	Forensic examination of the corpses of persons who died as a result of exposure to various vehicles. Forensic medical examination of the corpses of people who died as a result of a car crashing into a pedestrian	7	Working with the text of the summary	Test control self-control
<b>2</b>	Forensic examination of the corpses of people who died as a result of injury inside the cab of the car. Forensic medical examination of corpses of persons who died from moving the wheels of a car Methodology of extraction of biological material for additional research in the examination of corpses of persons who died as a result of car injuries	7	Working with the text of the summary	Test control self-control
<b>3</b>	Forensic medical examination of corpses of persons who died during other types of car injuries (falling out of the car body, pressing the car to a stationary obstacle, combined types of car injuries). Forensic examination of the corpses of persons who died in cases of motorcycle injuries. Forensic medical examination of the corpses of persons who died as a result of a railway injury	7	Working with the text of the summary	Test control self-control
<b>4</b>	Methods of examination of corpses of persons who died in a plane crash. Forensic examination of the corpses of people who died from injuries in water transport. Forensic examination of the corpses of persons who died during a fall from a height.	7	Working with the text of the summary	Test control self-control
<b>5</b>	Forensic examination of the corpses of persons who died from the effects of sharp objects. Forensic examination of the corpses of persons who died from the effects of cutting objects. Forensic examination of the corpses of persons who died as a result of falling from a standing position.	7	Working with the text of the summary	Test control self-control
<b>6</b>	Forensic examination of the corpses of persons who died from the impact of prickly objects. Forensic examination of the corpses of persons who died as a result	7	Working with the text of the summary	Test control self-control

	of the impact of chopping objects			
7	Firearms, ammunition, the mechanism of the shot, additional factors of the shot, the mechanism of action of the projectile on clothing and tissues of the human body. Forensic examination of gunshot wounds. The main issues that arise during the examination of gunshot wounds.	7	Working with the text of the summary	Test control self-control
8	Features of gunshot wounds from hunting weapons. Damage when fired from a defective homemade weapon, during the explosion of grenades, mines, shells, explosives. Methods of research of smoky and smokeless gunpowder	7	Working with the text of the summary	Test control self-control
9	Diagnosis of incoming and outgoing gunshot wounds. Establishing the distance of shots, morphological signs of a shot at point-blank range, from near and far. Examination of the wound canal, establishing the direction of the wound canal. Addressing issues of the sequence of gunshot wounds.	7	Working with the text of the summary	Test control self-control
10	Rules for the removal of biological material for additional research: skin wounds, bone damage. Physical and technical methods of research of gunshot wounds. Additional research methods for gunshot wounds	7	Working with the text of the summary	Test control self-control
	Total hours	<b>70</b>		

### 3. EVALUATION CRITERIA

**3.1.** Evaluation of the success of education of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU" from 21.08.2021 № 181.

Current control is carried out at each classroom (except for lectures). Based on the results of mastering each topic of the lesson, a grade is given using a 4-point system. The educational material of the discipline, provided for mastering by the student in the process of independent work, is submitted for final control together with the educational material studied during the classroom training sessions.

The general educational activity is considered completed if the applicant has completed all the missed classes and lectures, and the average score for all topics is equal to 3 points and above. General educational activities end with an assessment with a form of control "credit". Scores for disciplines are calculated as the

arithmetic mean of current control scores for all topics during the entire period of study of the discipline (to the nearest hundredth) according to table 2 "Conversion of average score for current control in a multi-point scale (for disciplines ending with credit)" within the functionality of the electronic journal of the ASU. The general educational activity is defined in points from 120 to 200 and a mark - "passed" or "not passed". The teacher puts the appropriate grade in the individual curriculum and fills in the information on the success of the discipline.

Annex 2  
to item 2.6 of the  
Instruction,  
approved  
by order of KhNMU  
from 21.08.2021№ 181

Table 2

**Recalculation of the average grade for current activity in a multi-point scale  
(for disciplines ending with credit)**

4-бальна шкала	200- бальна шкала	4-бальна шкала	200- бальна шкала	4-бальна шкала	200-бальна шкала
5	200	4.22-4,23	169	3.45-3,46	138
4.97-4,99	199	4.19-4,21	168	3.42-3,44	137
4.95-4,96	198	4.17-4,18	167	3.4-3,41	136
4.92-4,94	197	4.14-4,16	166	3.37-3,39	135
4.9-4,91	196	4.12-4,13	165	3.35-3,36	134
4.87-4,89	195	4.09-4,11	164	3.32-3,34	133
4.85-4,86	194	4.07-4,08	163	3.3-3,31	132
4.82-4,84	193	4.04-4,06	162	3.27-3,29	131
4.8-4,81	192	4.02-4,03	161	3.25-3,26	130
4.77-4,79	191	3.99-4,01	160	3.22-3,24	129
4.75-4,76	190	3.97-3,98	159	3.2-3,21	128
4.72-4,74	189	3.94-3,96	158	3.17-3,19	127
4.7-4,71	188	3.92-3,93	157	3.15-3,16	126
4.67-4,69	187	3.89-3,91	156	3.12-3,14	125
4.65-4,66	186	3.87-3,88	155	3.1-3,11	124
4.62-4,64	185	3.84-3,86	154	3.07-3,09	123
4.6-4,61	184	3.82-3,83	153	3.05-3,06	122
4.57-4,59	183	3.79-3,81	152	3.02-3,04	121
4.54-4,56	182	3.77-3,78	151	3-3,01	120
4.52-4,53	181	3.74-3,76	150	<b>Менше 3</b>	<b>Недостатньо</b>
4.5-4,51	180	3.72-3,73	149		
4.47-4,49	179	3.7-3,71	148		
4.45-4,46	178	3.67-3,69	147		
4.42-4,44	177	3.65-3,66	146		
4.4-4,41	176	3.62-3,64	145		
4.37-4,39	175	3.6-3,61	144		



4.35-4,36	174	3.57-3,59	143
4.32-4,34	173	3.55-3,56	142
4.3-4,31	172	3.52-3,54	141
4,27-4,29	171	3.5-3,51	140
4.24-4,26	170	3.47-3,49	139

### 3.2. Test questions:

1. Organizational and procedural bases of forensic examination in Ukraine. Rights, duties and responsibilities of a forensic expert. Forensic documentation.
2. Forensic examination - the subject and objectives of the industry, the objects of examination, regulatory and legal documents, documentation. The structure of the bureau of forensic examination.
3. Methods of forensic examination. The structure of the "Expert Opinion". Requirements for drawing up conclusions and the procedure for signing them. Responsibility of the expert. Involvement of consulting doctors.
4. Examination of the scene - the task of the doctor during the examination of the corpse at the place of its detection, documentation, scheme of description of the corpse at the scene, the rules of seizure of physical evidence of biological origin.
5. Damage by blunt objects. Classification of blunt objects. Types of injuries and the mechanism of their infliction from the action of blunt objects. Forensic significance of abrasions.
6. Damage by blunt objects. Classification of blunt objects. Types of injuries and the mechanism of their infliction from the action of blunt objects. Forensic significance of bruises.
7. Damage by blunt objects. Classification and differential diagnosis of wounds caused by blunt objects.
8. Damage by sharp objects. Classification of sharp objects and wounds that caused them. Differential diagnosis of cut and chopped wounds.
9. Damage by sharp objects. Classification of sharp objects and wounds that caused them. Signs of a stab wound. The main and additional incision and its forensic significance.
10. Forensic traumatology. The nature, mechanism of occurrence and forensic significance of fractures of the ribs, spine, bones of the facial skull. Types of fractures. Direct and indirect fractures.
11. Injury and its types. Falling from a height - types of falls, features of the scene and examination in these cases. Fall on the plane.
12. Determining the viability and duration of injuries in forensic medicine.
13. Forensic traumatology. The nature, mechanism of occurrence and forensic significance of fractures of flat and tubular bones.
14. Forensic examination of death and injuries caused by falling from a height, their differential diagnosis with trauma.

15. Definition of the term "autotrauma". Specific, characteristic and uncharacteristic injuries due to car injury. Forensic medical examination of cases of a person falling out of a car cab.
16. Types of car injuries. Forensic examination of cases of a car crashing into a pedestrian. The value of the bumper fracture.
17. Types of car injuries. Forensic examination of cases of moving the body by a car wheel.
18. Types of car injuries. Forensic medical examination of driver and passenger injuries inside the car.
- 19.19. Classification of traffic injuries. Forensic medical examination of a motorcycle injury. Classification and types of motor injuries. Specific, characteristic and uncharacteristic injuries in these cases.
20. Forensic examination of railway injury. Issues that are resolved during the forensic examination of this type of injury.
21. Gunshot wounds. Determination of the inlet and outlet on the skin and bones. Types of spherical wound canals. Determining the distance of the shot. The phenomenon of Vinogradov.
- 22.22. Classification of firearms. Forensic examination of injuries due to hunting weapons. Fraction damage. Determination of the inlet and outlet, the distance of the shot.
23. Explosive injury. Features of forensic examination of victims of the explosion. The range of issues to be decided by a forensic expert.
24. Gunshot wounds. Laboratory research methods in the examination of gunshot wounds and their capabilities.
25. Forensic research methods and their possibilities.
26. Identification studies of trauma tools. Possibilities of identification studies of corpse bones. Establishing identity by dental status.
27. Definition of the term "bodily injury". Loss of an organ or loss of an organ of its function - types of injuries, assessment by severity, features of forensic examinations of these injuries.
28. Forensic examination of living persons. Classification of severity of injuries and their qualifications.
29. Forensic examination of living persons. Signs of serious injury. List of life-threatening injuries.
30. Forensic examination of living persons. Qualification signs of light bodily injuries and injuries of medium severity.
31. Forensic examination of living persons. Types of general and professional capacity for work, the procedure for establishing its loss.
32. Forensic examination of health, simulation, aggravation, artificial diseases.
33. Forensic examination of clothing and footwear due to traumatic injury.
34. Forensic examination of instruments of injury, issues that can be resolved during forensic examination.
35. The use of infrared and ultraviolet lighting in the case of laboratory tests of traumatic injuries.

36. Forensic examination of blood stains on clothing and instruments of injury.
37. Forensic examination of the objects of injury and its possibilities.
38. Forensic examination of self-injuries and features of such examinations.
39. Differential diagnosis of falls from a height and car injury.
40. Differential diagnosis of gunshot wounds and stab wounds from sharp objects.

### **3.4. Individual tasks** are not provided

### **3.6. Rules for appealing the assessment**

The appeal of the higher education applicant regarding the assessment (number of points) must be submitted in person no later than the next working day after the final control and announcement of the assessment. The appeal is considered no later than the next day after its submission in the presence of the applicant. Additional questioning of the applicant for higher education when considering the appeal is not allowed. The procedure for filing and reviewing an appeal must be made public and brought to the notice of the applicant no later than 7 days after the filing of the appeal.

## **4. DISCIPLINE POLICY**

### **Discipline requirements.**

- respect for colleagues,
- tolerance for others and their experience,
- susceptibility and impartiality,
- the ability to disagree with the opinion, but to respect the identity of the opponent (s),
- careful argumentation of his opinion and the courage to change his position under the influence of evidence,
- self-expression, when a person avoids unnecessary generalizations, describes his feelings and formulates his wishes based on their own thoughts and emotions,
- Mandatory acquaintance with primary sources.

### **Class attendance and behavior.**

Attendance at lectures and practical classes is mandatory. The practice of missed practical classes takes place daily from 15.00 to 17.00 at the department, according to the schedule on the information stand and provides for oral examination, solving test tasks in the amount of up to 30 test tasks. Missing lectures are handwritten by writing an essay of up to 20 pages on A4 sheets. The abstract should be written with reference to the sources of literature and passed to the teacher personally. If you have any questions, you can contact the teacher in person, online or by e-mail.

During the lecture it is desirable to keep a synopsis and keep a sufficient level of silence, it is possible to ask questions. Before conducting practical classes, students must prepare for the topic of the lesson, actively participate in the discussion, ask questions, express their views. During the discussion it is necessary to maintain respect for colleagues, tolerance for their experience, receptivity and impartiality, the ability to constructive criticism, based on their own emotions and thoughts.

During classes it is allowed:

- leave the audience 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.

During classes it is forbidden:

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

Use of electronic gadgets.

The use of electronic gadgets is the main and powerful source of information for studying the course, adaptable to modern requirements and promotes entry into the modern European educational space. Gadgets provide constant feedback: "teacher-seeker", "seeker-seeker", "seeker-group of seekers".

Policy for people with special educational needs.

The organization of inclusive education in higher education institutions is carried out in accordance with the order of KhNMU № 203 from 22.06.2018 "On approval of the procedure for support (assistance) of persons with disabilities, the elderly, other low-mobility groups during their stay (indoors) KhNMU.

**Recommendations for successful completion of the discipline (activity of higher education students during practical classes, completion of the required minimum of educational work).**

During the study of the discipline the applicant of higher education is obliged to:

- regularly attend practical classes and lectures;
- keep notes of practical classes;
- take an active part in work in the classroom;
- perform independent extracurricular work.

Incentives and penalties.

Additional points are not provided during the course.

Safety precautions.

The first lesson will explain the basic principles of labor protection at the department by instructing. Everyone is expected to know where the nearest evacuation exit is, where the fire extinguisher is, how to use it, and so on. After the briefing, each higher education applicant must sign the journal of briefing of the Department of Occupational Safety.

## **5. ACADEMIC INTEGRITY**

The Department of Forensic Medicine, Medical Law named after Honored Professor MS Bokarius maintains zero tolerance for plagiarism. Applicants for higher education are expected to constantly raise their awareness of academic writing. The first lessons will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

## **6. RECOMMENDED LITERATURE**

### **Basic:**

1. Kontsevich IO, Mikhailychenko BV Forensic Medicine. - K.: МП Леся, 1997. - 656 с.
2. Forensic medicine. Medical legislation: textbook: in 2 books. B.V. Михайличенко, B.A. Shevchuk, S.S. Cooper and others. Edited by Prof. VF Москаленка, Б.В. Михайличенка. - Book 1 Forensic Medicine. - K. «Медицина», 2011. - 448 с.
3. Forensic medicine. Medical legislation: textbook: in 2 books. B.V. Михайличенко, B.A. Shevchuk, S.S. Cooper and others. Edited by Prof. VF Москаленка, Б.В. Михайличенка. - Book 1 Medical legislation. Legal regulation of medical activity - K. "Medicine", 2011. - 496 p.
4. Stetsenko SG, Stetsenko V.Yu., Senyuta I.Ya. Medical law of Ukraine: Textbook / For general. ed. Ph.D., Prof. S.G. Stetsenka. - Kyiv: All-Ukrainian Association of Publishers "Legal Unity", 2008. - 507 p.
5. Bern I., Ezer T., Cohen J., Overal J., Senyuta I. Human rights in health care: a practical guide / For science. ed. I. Senyuta. - Lviv: LOBF "Medicine and Law" Publishing House, 2012. - 576 p.
6. Sergeev Yu.D., Bisyuk Yu.V. Inadequate medical care (expert legal aspects). - M.: KMK Publishing House. - 2008. - 400 p.
7. Sergeev Yu.D. The profession of a doctor. Legal aspects. - K.: High scho, 1988. - 208 p.
8. Kontsevich IA Duty and responsibility of the doctor. - K.: High scho, 1983. - 110 p.
9. Kontsevich IA Forensic aspects of medical practice. - K.: Health., 1974. - 127 p.
10. Forensic medicine. Guide for physicians / ed. Prof. A.A. Matisheva. - St. Petersburg: Hippocrates, 1988. - 544 p.
11. Громов А.П. Rights, duties and responsibilities of medical workers - M.: Medicine, 1976. - 168 p.

12. Glushkov VA Responsibility and crimes in the field of health. - К .: Вища школа, 1987. - 200 p.

**Additional:**

1. Bogomazova IO The right to quality and safe medicines in the system of the right to health care // Medical law. - Special issue № 3, 2017. - P. 9 - 17.
2. Vorobieva LV Medical law: a short course of lectures / L.V. Воробьева. - Rostov n / D: Phoenix, 2014.
3. Zrazhevskaya N. Protection of professional honor, dignity and business reputation of doctors in court // Medical Law. - 1 (15). - 2015
4. Kuts VM Criminal liability for illegal conduct of experiments on humans: a monograph / V.M. Kuts, S.W. Gizimchuk, VO Egorov. - Kharkiv: Yurayt, 2012.
5. Klapatiy D.Y. Legal aspects of providing health care institutions with answers to requests for information in accordance with the Law of Ukraine "On Access to Public Information" // Medical Law. - № 1 (19), 2017. - P. 55 - 66.
6. Lemekha RI The concept of improper performance of professional duties by a medical worker // Modern dimension of the state and law: Proceedings of the international scientific-practical conference, Lviv, May 19-20, 2017 - Lviv: Western Ukrainian organization "Center for Legal Initiatives", 2017. - P .43-46.
7. Lemekha RI Justified risk as a circumstance that excludes the crime of medical workers // Rule of law: directions and trends of its development in Ukraine: Proceedings of the international scientific-practical conference, Odessa, Ukraine, May 12-13, 2017 - Odessa: NGO "Black Sea Foundation of Law ", 2017. - P. 94-97
8. Ptashnyk IR Civil regulation of transplantation in Ukraine: author. dis. for science. degree of Cand. jurid. Sciences / I.R. Poultry house. - К., 2016. - 21 p.
9. Ryzhkova E. Medical tourism: general characteristics and legal regulations in Ukraine / E. Ryzhkova. [Electronic resource]. - Access mode: <http://www.legeasiviata.in.ua/archive/2014/3-2/51.pdf>
10. Radysh J. Socio-psychological rehabilitation of citizens - an important component of public policy of Ukraine in modern conditions // Investment: practice and experience, 2015. - № 5. - P. 6 - 8.
11. Rogalsky IO Legal classification of defects of medical care in the field of obstetrics and gynecology / IO Rogalsky, NM Kalinyuk, NV Humenna // Medical law. - 2015. - № 2 (16).
12. Senyuta I. Ya. Medical neutrality as a concept of ensuring human rights in the field of health care: the experience of Ukraine / I. Ya. Senyuta, D. Y. Klapatiy // Medical law. - 2016. - № 1 (17).
13. Senyuta I.Ya. New approaches to quality standards of medical care and their possible legal consequences // Ukrainian Medical Journal. - Online. -

- 10.05.2017. - [Electronic resource]. - Access mode: <http://www.umj.com.ua/article/108196/novi-pidhodi-do-standartiv-yakosti-nadannya-medichnoyi-dopomogi-ta-yih-mozhlivi-yuridichno-pravovi-naslidki>
14. Senyuta I.Ya. Civil lawsuit as an instrument for protection of the rights of subjects of medical relations: some aspects [Text] / I.Ya. Senyuta // Scientific Bulletin of Uzhhorod National University: Series: Law / chap. ed. Yu.M. Bisaga. - Uzhhorod: Helvetica Publishing House, 2015. - Issue. 31. - Vol.2. - P. 22–27.
  15. Senyuta I.Y. Medical Neutrality as a Human Rights in Patient Care Concept: Experience of Ukraine / I.Y. Senyuta, D.Y. Klapatyi // Medical Law. - 2016. - № 17. - R. 50-71.
  16. Vershkova IV, Kriklya VV, Martinova OV, Goryacha LO Extreme medicine: textbook. manual / IV Vershkova, VV Kryklya, OV Martynova, LO Goryacha. - Kharkiv, 2014. - 124 p.
  17. Florya V. Responsibility for medical crimes. Investigation and examination. - LAP LAMBERT Academic Publishing, 2013.

## **7. INFORMATION RESOURCES**

1. Almaty Declaration. WHO, dated 06.09.1978 [Electronic resource]. - Access mode: <http://www.euro.who.int/ru/publications/policy-documents/declaration-of-alma-ata,-1978>
2. Declaration on patient-centered care / International Alliance of Patient Organizations, dated 24.02.2006 [Electronic resource]. - Access mode: <http://www.patientsorganizations.org>
3. Declaration on Patient Rights Policy in Europe / WHO European Consultative Meeting on Patient Rights, 1994 [Electronic resource]. - Access mode: [http://www.who.int/genomics/public/eu\\_declaration1994.pdf](http://www.who.int/genomics/public/eu_declaration1994.pdf)
4. Jakarta Declaration on the Leading Role of Health Promotion in the 21st Century / WHO, July 21-25, 1997 [Electronic resource]. - Access mode: <http://www.who.int/healthpromotion/conferences/previous/jakarta/declaration/en/index1.html>
5. European Social Charter / Council of Europe, dated 03.05.1996 [Electronic resource]. - Access mode: [http://zakon4.rada.gov.ua/laws/show/994\\_062](http://zakon4.rada.gov.ua/laws/show/994_062)
6. European Charter of Patients' Rights, November 2002 [Electronic resource]. - Access mode: <http://www.activecitizenship.net/patients-rights/projects/29-european-charter-of-patients-rights.html>
7. Protection of persons with mental illness and improvement of psychiatric care: UN General Assembly Resolution № 46/119 / UN General Assembly. December 17, 1991 [Electronic resource]. - Access mode: <http://www.un.org/documents/ga/res/46/a46r119.htm>

8. Convention for the Protection of Human Rights and Fundamental Freedoms / Council of Europe, dated 04.11.1950 [Electronic resource]. - Access mode: [http://zakon4.rada.gov.ua/laws/show/995\\_004](http://zakon4.rada.gov.ua/laws/show/995_004)
9. Convention for the Protection of Human Rights and Dignity of Human Resources for the Application of Biology and Medicine: Convention on Human Rights and Biomedicine / Council of Europe, 04.04.1997 [Electronic resource]. - Access mode: [http://zakon2.rada.gov.ua/laws/show/994\\_334](http://zakon2.rada.gov.ua/laws/show/994_334)
10. Convention on the Rights of Persons with Disabilities. UN, dated 13.12.2006 [Electronic resource]. - Access mode: [http://zakon4.rada.gov.ua/laws/show/995\\_g71](http://zakon4.rada.gov.ua/laws/show/995_g71)
11. Lisbon Declaration of the Rights of the Patient / World Medical Association. MMA Assembly, September-October 1981, revised in 2005 [Electronic resource]. - Access mode: <http://www.med-pravo.ru/Ethics/LisbonDecl.htm>
12. Ljubljana Charter on Health Care Reform / WHO, dated 18.06.1996 [Electronic resource]. - Access mode: [http://www.euro.who.int/\\_\\_data/assets/pdf\\_file/0010/113302/E55363.pdf](http://www.euro.who.int/__data/assets/pdf_file/0010/113302/E55363.pdf)
13. International Covenant on Civil and Political Rights / UN, dated 16.12.1966 [Electronic resource]. - Access mode: [http://zakon4.rada.gov.ua/laws/show/995\\_043](http://zakon4.rada.gov.ua/laws/show/995_043)
14. International Covenant on Economic, Social and Cultural Rights / UN, dated 16.12.1966 [Electronic resource]. - Access mode: [http://zakon4.rada.gov.ua/laws/show/995\\_042](http://zakon4.rada.gov.ua/laws/show/995_042)
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16. International guidelines for ethics for human biomedical research / Council of International Organizations of Medical Sciences, 2002 [Electronic resource]. - Access mode: [http://www.fhi.org/training/fr/retc/pdf\\_files/cioms.pdf](http://www.fhi.org/training/fr/retc/pdf_files/cioms.pdf)
17. Position document: nurses and human rights / International Council of Nurses, 1998 [Electronic resource]. - Access mode: [http://www.icn.ch/images/stories/documents/publications/position\\_statements/E10\\_Nurses\\_Human\\_Rights.pdf](http://www.icn.ch/images/stories/documents/publications/position_statements/E10_Nurses_Human_Rights.pdf)
18. Recommendations REC (2004) 10 of the Committee of Ministers of the Council of Europe to member states on the protection of the human rights and dignity of persons with mental disorders / Committee of Ministers of the Council of Europe, dated 22.09.2004 [Electronic resource]. - Access mode: <https://wcd.coe.int/ViewDoc.jsp?id=775685>
19. Charter of the Right to Health / International Bar Association. General Assembly of the ICJ, dated 31.08.2005 [Electronic resource]. - Access mode: <http://www.uianet.org/documents/qquia/resolutions/Sante4Gb.pdf>



20. General comment No. 14: The Right to the Highest Attainable Standard of Health (Art. 12). CESCR, dated 11.08.2000 [Electronic resource]. - Access mode: <http://www.refworld.org/docid/4538838d0.html>

**Link to the discipline page in MOODLE**

<http://31.128.79.157:8083/user/files.php>

**Useful links:**

Regulations on the prevention, prevention and settlement of cases related to sexual harassment and discrimination in KhNMU

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog-sex.doc](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog-sex.doc)

Regulations on Academic Integrity and Ethics of Academic Relations at Kharkiv National Medical University

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_ad\\_etyka\\_text.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_ad_etyka_text.pdf)

Procedure for conducting classes on in-depth study by students of Kharkiv National Medical University of certain disciplines beyond the scope of the curriculum

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/nak-poriad-pogl-vyv-dysc.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/nak-poriad-pogl-vyv-dysc.docx)

Regulations on the Commission on Academic Integrity, Ethics and Conflict Management of KhNMU

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_komis\\_ad\\_text.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_komis_ad_text.pdf)

Regulations on the recognition of the results of non-formal education in Kharkiv National Medical University

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/polog\\_neform\\_osv.pdf](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/polog_neform_osv.pdf)

INCLUSIVE EDUCATION:

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=7108%3A2021-03-10-14-08-02&catid=12%3A2011-05-10-07-16-32&Itemid=33&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=7108%3A2021-03-10-14-08-02&catid=12%3A2011-05-10-07-16-32&Itemid=33&lang=uk)

ACADEMIC INTEGRITY:

[http://www.knmu.kharkov.ua/index.php?option=com\\_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=uk](http://www.knmu.kharkov.ua/index.php?option=com_content&view=article&id=2520%3A2015-04-30-08-10-46&catid=20%3A2011-05-17-09-30-17&Itemid=40&lang=uk)

[http://files.knmu.edu.ua:8181/upload/redakt/doc\\_uchproc/kodex\\_AD.docx](http://files.knmu.edu.ua:8181/upload/redakt/doc_uchproc/kodex_AD.docx)