



Syllabus of discipline

1. General information

Name of the faculty	Pharmaceutical
Educational program (industry, specialty, level of higher education, form of education)	22 Healthcare, 226 Pharmacy, second (master's) level of higher education, full-time
Academic year	Second
Name of discipline, code (e-mail address on the website of LNMU named after Danylo Haltsky)	Emergency care in pharmacies, WB 1.23 https://new.meduniv.lviv.ua/uploads/repository/kaf/kaf_gensurgery/02.%D0%9D%D0%B0%D0%B2%D1%87%D0%B0%D0%BB%D1%8C%D0%BD%D1%96_%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%B8/03_%D0%A4%D0%B0%D1%80%D0%BC%D0%B0%D1%86%D0%B5%D0%B2%D1%82%D0%B8%D1%87%D0%BD%D0%B8%D0%B9_%D1%84%D0%B0%D0%BA%D1%83%D0%BB%D1%8C%D1%82%D0%B5%D1%82/02_%D0%BA%D1%83%D1%80%D1%81/02_%D0%9D%D0%B5%D0%B2%D1%96%D0%B4%D0%BA%D0%BB%D0%B0%D0%B4%D0%BD%D0%B0_%D0%B4%D0%BE%D0%BF%D0%BE%D0%BC%D0%BE%D0%B3%D0%B0_%D0%B2_%D0%B0%D0%BF%D1%82%D0%B5%D1%87%D0%BD%D0%B8%D1%85%20%D0%B7%D0%B0%D0%BA%D0%BB%D0%B0%D0%B4%D0%B0%D1%85.pdf
Department (name, address, phone, e-mail)	Department of General Surgery, Municipal City Clinical Ambulance Hospital, 2 surgical departments (main clinical base) Lviv, 9 Mykolaychuk Street, tel.: 258-74-86, fax: 291-72-31 kaf_gensurgery@meduniv.lviv.ua
Head of the department (contact e-mail)	Andryushchenko Victor Petrovich, MD, professor phone 291-72-31, e-mail: kaf_gensurgery@meduniv.lviv.ua
Year of study (year in which the study of the discipline)	Second year of study)
Semester (semester in which the study of the discipline is implemented)	3rd semester
Type of course / module (compulsory / optional)	Selective
Teachers (names, surnames, scientific degrees and titles of teachers who teach the discipline, contact e-mail)	Kushta Yuriy Fedorovich, Candidate of Medical Sciences, Associate Professor Matviychuk Oleh Bogdanovich, Candidate of Medical Sciences, Associate Professor Mahlyovanyj Vitaliy Anatolijovych, Candidate of Medical Sciences, Associate Professor Paranyak Mykola Romanovich, Candidate of Medical Sciences, Assistant Vashchuk Vsevolod Vasilyevich, Candidate of Medical Sciences, Associate Professor

	Kirik Taras Petrovich, Candidate of Medical Sciences, Associate Professor Kushnirchuk Mykola Ivanovych, Candidate of Medical Sciences, Assistant kaf_gensurgery@meduniv.lviv.ua
Erasmus yes / no (availability of the discipline for students within the Erasmus + program)	No
Person responsible for the syllabus (person to be commented on the syllabus, contact e-mail)	Vashchuk Vsevolod Vasilyevich, Candidate of Medical Sciences, Associate Professor, Kushta Yuriy Fedorovich, Candidate of Medical Sciences, Associate Professor kaf_gensurgery@meduniv.lviv.ua
Number of ECTS credits	2
Number of hours (lectures / practical classes / independent work of students)	60
Language of instruction	Ukrainian
Information about consultations	according to the current schedule
Address, telephone and rules of operation of the clinical base, office) (if necessary)	Department of General Surgery, Municipal City Clinical Ambulance Hospital, 2 surgical departments (main clinical base) Lviv, 9 Mykolaychuk Street, tel.: 258-74-86, fax: 291-72-31 kaf_gensurgery@meduniv.lviv.ua

2. Short annotation to the course

A pharmacy is a health care institution that operates with the permission and under the control of state bodies, the main task of which is to provide the population, other health care institutions, enterprises, institutions and organizations with medicines and medical devices. One of the most important functions of a pharmacy as a health care institution is to provide first aid to the population; dissemination of sanitary and hygienic knowledge among the population and carrying out sanitary and educational work; pharmaceutical care; conducting information work among medical and pharmaceutical specialists.

The Law of Ukraine "On Emergency Medical Care" as amended on 09.12.2015 defines first aid as a set of urgent actions and organizational measures aimed at saving and preserving a person's life in an emergency and minimizing the effects of such a condition on his health. carried out at the scene by persons who, in accordance with their official duties, must have basic practical skills in rescuing and saving the life of a person who is in an emergency. In accordance with the first part of Article 12 of the above-mentioned law, the list of persons obliged to provide home medical care to a person in an emergency includes: rescuers, state firefighters, police, pharmaceutical workers, conductors of passenger cars, flight attendants and other persons who do not have medical education, but in their official capacity must have practical skills in providing home care. The draft curriculum of the discipline "First aid with introductory medical practice" is made in accordance with the requirements of the Constitution of Ukraine, Laws of Ukraine "On Education", "On Higher Education", "On scientific and scientific-technical activities", "On information"; regulations of the Cabinet of Ministers of Ukraine; orders of the Ministry of Education and Science and the Ministry of Health of Ukraine

and other current legislation governing the organization of the educational process and the training of specialists in higher medical (pharmaceutical) educational institutions of the Ministry of Health of Ukraine, in particular, Letter of the State Institution №23-01-9 / 87; Letter of the Ministry of Health of Ukraine dated July 26, 2016 №23-01-9 / 268; Order of the Ministry of Education and Science of Ukraine dated 16.10.2009, №943 “On introduction of the European credit transfer system in higher educational institutions of Ukraine”; Resolution of the Cabinet of Ministers of Ukraine of April 29, 2015 №266 “On approval of the list of branches of knowledge and specialties in which higher education students are trained”.

3. The purpose and objectives of the course

1. The purpose of the course is to master the basic theoretical principles and master the practical skills of organizing and providing emergency medical care to victims in pharmacies.
2. Objectives of training - mastering the knowledge, skills and abilities to provide emergency medical care to victims in pharmacies.
3. Competences and learning outcomes, the formation of which provides the study of the discipline:
 - integral: the ability to solve complex problems and practical problems in the field of professional activity 22 "Health", which involves the application of certain theoretical knowledge, skills, practical skills and methods appropriate professional orientation;
 - general: the ability to apply knowledge in real situations; adaptation and implementation of the required scope of actions in new situations, activities in autonomous and command modes, evaluation and quality assurance of work performed; identification and solution of problems; making informed decisions; activities in accordance with the basic safe and ethical principles (motives).
 - special (professional, subject): providing assistance in various types of injuries, emergencies and accidents in pharmacies.

4. Prerequisites of the course

1. The subject of study of the discipline is the organization of first aid in emergencies in pharmacies.
 2. Interdisciplinary connections in the study of the discipline: normal and pathological anatomy, normal and pathological physiology, histology and pharmacology, propaedeutics of internal medicine, pharmacology.
 3. Learning outcomes: Integrative final program learning outcomes, the formation of which is facilitated by the discipline: to apply knowledge in practical situations; work effectively both autonomously and as part of a team; to be responsible for the work performed in order to achieve the set goal; use information and communication technologies to solve various research and professional problems; have the skills of emergency care for various types of injuries, emergencies and accidents and be able to implement them in pharmacies.
- Learning outcomes for the discipline: mastering the knowledge, skills and abilities to provide emergency care in pharmacies.

5. Program learning outcomes

List of learning outcomes

Learning outcome code	The content of the learning outcome	Reference to the
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		competency matrix code
UM-1	Highlight the leading clinical symptom or syndrome. Establish the most probable or syndromic diagnosis of the disease. Assign laboratory and / or instrumental examination the patient. Carry out differential diagnosis of diseases. Establish a preliminary and clinical diagnosis.	PR-3
AB-1	Determine the tactics of emergency medical care based on the diagnosis of emergency.	PR -7
AB-2	Provide emergency medical care based on an emergency diagnosis.	PR -8
AB-3	Organize medical evacuation measures among the population and servicemen, taking into account the existing medical and evacuation support systems.	PR -9
K-1	Investigate volumes and effectiveness activities of a doctor, department, health care institution; identify defects in activities and the reasons for their formation. Carry out the selection and use of unified clinical protocols for the provision of medical care, developed on the basis of evidence-based medicine; develop and use local health care protocols. Carry out quality control of medical care; identify factors that hinder the improvement of the quality and safety of medical care. Estimate the cost of medical services; substantiate the choice of an adequate method of financing (payment) and the choice of rational forms of organization of medical care services. Apply methods of economic analysis when choosing methods of diagnosis, prevention, treatment, rehabilitation.	PR -19
K-2	Form goals and determine the structure of personal activities.	PR -21
AB-4	Follow a healthy lifestyle, use the techniques of self-regulation and self-control	PR -22
ZH-1	To be aware of and guided in their activities by civil rights, freedoms and responsibilities, to raise the general educational and cultural level.	PR -23
ZH-2	Adhere to the requirements of ethics, bioethics and deontology in their professional activities.	PR -24
AB-5	Organize the necessary level of individual safety (own and carers) in case of typical dangerous situations in the individual field of activity.	PR -25
6. Format and scope of the course		
Course format (specify full-time or part-time)	Eye	
Kind of occupations	Number of hours	Number of groups
lectures	10	
practical	10	4

seminars		-		
independent		40		4
7. Topics and content of the course				
Code type to borrow	Topic	Learning content	Learning outcome code	Teacher
L-1	Modern principles of emergency care in pharmacies.	Information on first aid in pharmacies is covered Training tables, presentations	K-1, K-2	Kushta Yu.F Matviychuk O.B/ Mahlovanyj V.A. Paranyak M.R.
L-2	Terminal states: evaluation algorithm and procedure for providing care in pharmacies.	The information on terminal states and algorithm of performance of cardiopulmonary resuscitation in the conditions of drugstores is covered Training tables, presentations	K-1, K-2	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
L-3	Organization of emergency care in pharmacies for acute therapeutic diseases.	The information on rendering emergency care at acute therapeutic diseases in the conditions of drugstores is covered Training tables, presentations	K-2	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
L-4	Help with various types of injuries in pharmacies	Information on various types of injuries and emergency care in pharmacies is covered Training tables, presentations	K-1	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
L-5	Organization of care for CNS disorders in pharmacies	Information on acute CNS dysfunction and emergency care in pharmacies is covered Training tables, presentations	K-1, K-2	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
P-1	Organization of emergency care in pharmacies. Laying a first aid kit	Be able to provide emergency care in pharmacies. Know the basic medications used to provide pre-	ZH-1, UM-1	

	(medicines and other means) to provide pre-medical care in a pharmacy. Characteristics of drugs for emergency care. Indications for use, dose selection and method of administration. Expected effect.	medical care Means for practicing practical skills, educational films, schemes, tables, presentations		Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
P-2	Foreign bodies in the larynx, trachea, bronchi, as one of the causes of airway obstruction due to aspiration. Assessing the degree of respiratory failure and determining the scope of emergency measures in the pharmacy.	Know the main manifestations of respiratory failure. Be able to restore airway patency. Means for practicing practical skills, educational films, schemes, tables, presentations	ZH-1, UM-1	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
P-3	Acute allergic reactions of immediate type: angioneurotic edema, urticaria. Clinical manifestations. Principles of providing emergency medical care in a pharmacy.	Know the manifestations of acute allergic reactions, be able to provide first aid for anaphylactic shock. Educational films, schemes, tables, presentations	UM-1, AB-1, K-2, ZH-2	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.

P-4	<p>Hypertensive disease. Clinical symptoms.</p> <p>Hypertensive crisis as an emergency.</p> <p>Bronchial asthma.</p> <p>Pulmonary edema.</p> <p>Principles of providing care in a pharmacy.</p>	<p>Know acute therapeutic conditions. Be able to provide assistance to these states. Educational films, schemes, tables, presentations</p>	<p>UM-1, AB-1, K-1, ZH-2</p>	<p>Kushta Yu.F Matviychuk O.B. Mahlovanj V.A. Paranyak M.R.</p>
P-5	<p>Features of the clinic and emergency care in a pharmacy for certain poisonings: alcohol and its surrogates, barbiturates, narcotic analgesics, organophosphorus compounds, carbon monoxide, poisonous mushrooms and plants</p>	<p>Know the main manifestations of poisoning, types of poisons and antidotes, be able to provide first aid for poisoning. Educational films, schemes, tables, presentations</p>	<p>UM-1, AB-4, ZH-1, K-2</p>	<p>Kushta Yu.F Matviychuk O.B. Mahlovanj V.A. Paranyak M.R.</p>
C-1	-			
CPC-1	<p>Organization of the activity of the emergency medical care service of Ukraine (regulatory framework).</p> <p>Purpose, ethical, deontological and legal aspects of emergency care for</p>	<p>Carry out independent preparation for the specified topic</p>	<p>AB-5, K-2</p>	<p>Kushta Yu.F Matviychuk O.B. Mahlovanj V.A. Paranyak M.R.</p>

	<p>victims in a pharmacy.</p> <p>Inspection of the scene, ensuring the personal safety of pharmacy staff, safety of witnesses of the event and the victim, approaching the victim (patient).</p>			
CPC-2	<p>Initial examination.</p> <p>Tasks of the initial inspection.</p> <p>Technology of carrying out at the conscious and unconscious patient.</p> <p>Providing medical care during the initial examination.</p> <p>Determining further tactics at the scene.</p>	<p>Carry out independent preparation for the specified topic</p>	AB-4, K-1	<p>Kushta Yu.F</p> <p>Matviychuk O.B.</p> <p>Mahlovanyj V.A.</p> <p>Paranyak M.R.</p>
CPC-3	<p>Convulsive syndrome in epilepsy: large convulsive and small epileptic seizures. Features of the course of a major seizure: prodrome, tonic and clonic phases, non-seizure period.</p> <p>Status epilepticus.</p> <p>Emergency care in a pharmacy.</p>	<p>Carry out independent preparation for the specified topic</p>	AB-4, K-1	<p>Kushta Yu.F</p> <p>Matviychuk O.B.</p> <p>Mahlovanyj V.A.</p> <p>Paranyak M.R.</p>

CPC-4	Defeat by combat poisons. Characteristics of the main toxic substances. Physiological action, antidotes and methods of protection.	Carry out independent preparation for the specified topic	AB-3, K-1	Kushta Yu.F Matviychuk O.B. Mahlovanyj V.A. Paranyak M.R.
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8. Verification of learning outcomes

Current control

is carried out during training sessions and aims to check the assimilation of students of educational material (it is necessary to describe the forms of current control during training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is set on a 4-point (national) scale

Learning outcome code	Code type to borrow	Method of verifying learning outcomes	Enrollment criteria
ZH-1, UM-1	P-1	Oral questioning, application of programmed control means	At least 50% correct answers
ZH-1, UM-1	P-2	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
UM-1, AB-1, K-2, ZH-2	P-3	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
UM-1, AB-1, K-1, ZH-2	P-4	Oral questioning, application of programmed control means, demonstration of practical skills by students	At least 50% of correct answers, correct demonstration of practical skills
UM-1, AB-4, ZH-1, K-2	P-5	Oral questioning, application of programmed control means	At least 50% correct answers
AB-5, K-2	CPC-1	The level of self-training, its quality and adequacy	Quality and completeness of the presented material
AB-4, K-1	CPC-2	The level of presentation or abstract on the selected topic	Quality and completeness of the presented material
AB-4, K-1	CPC-3	The level of self-training, its quality and adequacy	Quality and completeness of the presented material
AB-3, K-1	CPC-4	The level of self-training, its quality and adequacy	Quality and completeness of the presented material

Final control

General evaluation system	Participation in the work during the semester / exam - 100% / 0% on a 200-point scale
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Rating scales	traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale	
Conditions of admission to the final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for current performance	
Type of final control	Methods of final control	Enrollment criteria
Test	All topics submitted for current control must be included. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of student learning activities"	<i>The maximum number of points is 200. The minimum number of points is 120</i>
Examination criteria / differentiated test		
Examination	-	-
Differentiated credit		
<p><i>The maximum number of points that a student can score for the current academic activity for admission to the exam (differentiated test) is 120 points.</i></p> <p><i>The minimum number of points that a student must score for the current academic activity for admission to the exam (differentiated test) is 72 points.</i></p> <p><i>The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:</i></p> $x = \frac{CA \times 120}{5}$		
Criteria for assessing an objective structured practical (clinical) exam / Complex of practice-oriented exam Master's thesis		
9. Course policy		
To ensure academic integrity, students need to master the ability to: act in professional and educational situations from the standpoint of academic integrity and professional ethics; independently perform educational tasks; correctly refer to sources of information in case of borrowing ideas, statements, information; be aware of the importance of the norms of academic integrity, evaluate examples of human behavior in accordance with these; evaluate examples of human behavior in accordance with the norms of academic integrity; to give a moral assessment of one's own actions, to correlate them with moral and professional norms.		
10. Literature		
Required		
<ol style="list-style-type: none"> 1. Emergency medical care: a textbook / [M. I. Shved, AA Hudyma, SM Geryak and others]; for order. MI Swede. - Ternopil: TSMU, 2015. - 420 p. 2. First aid: a textbook / ed. VP Андриященко. Yu.F. Kushta, D.V. Andryushchenko - Lviv: LNMU. - 2011. - 351 p. 3. Emergency medical care (acute heart condition) / G.G. Roschin, OM Parkhomenko, VO Krylyuk et al. : ed. G.G. Roshchina. - K. : LLC SPE "Interservice", 2011. - 159 p. 4. Strong ID First aid for emergencies: a textbook / I.D. Дужий, О.В. Tailor; Sumy State University. - Sumy: Sumy State University, 2014. - 212 p. : ill., table. 5. Emergency medical care: pre-hospital stage, manipulation algorithms (basic level). / G.G. 		

Roschin, AA Gudima, V.Yu. Kuzmin and others. - К., 2012. - 84 с.

6. Medicine of urgent conditions: ambulance and emergency medical care / I.S. Zozulya, A.V. Vershigora, VI Bobrova and others; for order. IS Zozuli. - К. : ВСВ "Медицина", 2012. - 728 с.

7. Tarasyuk VS, Matviychuk MV Palamar MV, Polyarush VV, Korolyova ND, Podolyan VM Malik SL, Krivetska NV First medical (emergency) care with elements of tactical medicine at the pre-hospital stage in emergency situations. - К. : Медицина, 2015.

8. Algorithms for providing emergency care in critical conditions / Ed. II Titov. - Vinnytsia: Nova Kniga, 2012. - 344 p.

Optional

1. Donald C. Correll, MD Facep. Hypothermia practice Guid // The physician assistant practice Guide. For Emergency Departments urgent care centers, and family practices. A cuta care Horizons. Jackson, TN.2012.

2. Marx, John, Ron Walls, and Robert Hockberger. Rosen's emergency medicine-concepts and clinical practice. Elsevier Health Sciences, 2013.

3. Skone, Richard, et al., Eds. Managing the Critically Ill Child: A Guide for Anesthetists and Emergency Physicians. Cambridge University Press, 2013.

4. Schneider, Andreas, Erik Popp, and Bernd W. Böttiger. "Cardiopulmonary Resuscitation." Surgical Intensive Care Medicine. Springer International Publishing, 2016. 153-166.

11. Equipment, logistics and software of the discipline / course

12. Additional information

Teaching the discipline at lectures is provided by methodical developments, visual aids (presentations, educational films), information resources of departments.

Teaching the discipline in practical classes is provided by methodological developments, topics of independent and individual tasks, visual aids (presentations, educational films, mannequins and other tools for practicing resuscitation skills), information resources of departments, algorithms for practical skills and structured skills control algorithms.

Independent and individual work in the study of the discipline is provided by methodological developments for independent work of students.

Syllable stacker

Kushta Yu.F., Associate Professor

Vashchuk VV, Ph.D., Associate Professor

Kirik TP, Ph.D., Associate Professor

Head of Department

Andryushchenko VP, MD, professor

