



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, 1
Academic year	Second
Name of discipline, code (e-mail address on the website of LNMU named after Danylo Halytsky)	Emergency care in pharmacies, WB 1.23 https://new.meduniv.lviv.ua/uploads/repository/kaf/kaf_gensurgery/02.%D0%BD%D1%96_%D0%BF%D1%80%D0%BE%D0%B3%D1%D1%80%D0%BC%D0%B0%D1%86%D0%B5%D0%B2%D1%84%D0%B0%D0%BA%D1%83%D0%BB%D1%8C%D1%82%D0%9D%D0%B5%D0%B2%D1%96%D0%B4%D0%BA%D0%BE%D0%BF%D0%BE%D0%BC%D0%BE%D0%B3%D1%87%D0%BD%D0%B8%D1%85%20%D0%B7%D0%B85.pdf
Department (name, address, phone, e-mail)	Department of General Surgery, Municipal City Clinical Ambulance Hospital, 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 Professor 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 Professor 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 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, 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. Pharmacies provide medical care in pharmacies, care institutions, enterprises, institutions and organizations with medicines and medical devices. One of the main tasks of pharmacies is to provide first aid to the population; dissemination of sanitary and hygienic knowledge among the population; providing medical 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 actions aimed at preserving a person's life in an emergency and minimizing the effects of such a condition on his health. Carrying out first aid duties, must have basic practical skills in rescuing and saving the life of a person who is in an emergency. In accordance with the law, the list of persons obliged to provide home medical care to a person in an emergency includes: rescue workers, flight attendants, passenger cars, flight attendants and other persons who do not have medical education, but in their official capacity have received the curriculum of the discipline "First aid with introductory medical practice" is made in accordance with the laws of Ukraine "On Higher Education", "On scientific and scientific-technical activities", "On information"; Resolution of the Ministry of Education and Science and the Ministry of Health of Ukraine and other current legislation governing the training of specialists in higher medical (pharmaceutical) educational institutions of the Ministry of Health of Ukraine, Order 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 July 26, 2016 №23-01-9 / 268; Order of the Ministry of Education and Science of Ukraine dated July 26, 2016 №23-01-9 / 268; Resolution of the Cabinet of Ministers of Ukraine "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 providing first aid in pharmacies.
2. Objectives of training - mastering the knowledge, skills and abilities to provide emergency medical care to patients in pharmacies.
3. Competences and learning outcomes, the formation of which provides the study of the discipline: -integral: the ability to apply knowledge in real situations; adaptation and implementation of the required command modes, evaluation and quality assurance of work performed; identification and solution of problems in accordance with safe and ethical principles (motives). -special (professional, subject): providing assistance in various types of emergencies 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, internal medicine, pharmacology.
3. Learning outcomes: Integrative final program learning outcomes, the formation of which is facilitated by the study of the discipline: to be responsible for the work performed in order to achieve the set goals; to solve various research and professional problems; have the skills of emergency care for various types of emergencies in pharmacies.

Learning outcomes for the discipline: mastering the knowledge, skills and abilities to provide emergency care			
5. Program learning outcomes			
List of learning outcomes			
Learning outcome code		The content of the learning outcome	
UM-1	Highlight the leading clinical symptom or syndrome. Establish the most probable or syndromic diagnosis of the disease. A and / or instrumental examination the patient. Carry out differential diagnosis of diseases. Establish a preliminary diagnosis.		
AB-1	Determine the tactics of emergency medical care based on the diagnosis of emergency		
AB-2	Provide emergency medical care based on an emergency diagnosis.		
AB-3	Organize medical evacuation measures among the population and servicemen, taking into account the existing medical and evacuation support systems.		
K-1	Investigate volumes and effectiveness activities of a doctor, department, health care institution; identify defects in activities and 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; compare local health care protocols. Carry out quality control of medical care; identify factors for 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) of medical services. Apply methods of economic analysis when choosing methods of diagnosis, prevention, treatment, rehabilitation.		
K-2	Form goals and determine the structure of personal activities.		
AB-4	Follow a healthy lifestyle, use the techniques of self-regulation and self-control		
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.		
ZH-2	Adhere to the requirements of ethics, bioethics and deontology in their professional activities.		
AB-5	Organize the necessary level of individual safety (own and carers) in case of typical situations in the individual field of activity.		
6. Format and scope of the course			
Course format (specify full-time or part-time)	Eye		
Kind of occupations	Number of hours		
lectures	10		
practical	10		
seminars	-		
independent	40		
7. Topics and content of the course			
Code type to borrow	Topic	Learning content	Learning outcome
L-1	Modern principles of emergency care in pharmacies.	Information on first aid in pharmacies is covered Training tables, presentations	K-1, K-2
L-2	Terminal states:	The information on terminal states and algorithm of performance of cardiopulmonary resuscitation in the	K-1, K-2

	evaluation algorithm and procedure for providing care in pharmacies.	conditions of drugstores is covered Training tables, presentations	
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
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
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
P-1	Organization of emergency care in pharmacies. Laying a first aid kit (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.	Be able to provide emergency care in pharmacies. Know the basic medications used to provide pre-medical care Means for practicing practical skills, educational films, schemes, tables, presentations	ZH-
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	Know the main manifestations of respiratory failure. Be able to restore airway patency. Means for practicing practical skills, educational films, schemes, tables, presentations	ZH-

	pharmacy.		
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-2
P-4	Hypertensive disease. Clinical symptoms. Hypertensive crisis as an emergency. Bronchial asthma. Pulmonary edema. Principles of providing care in a pharmacy.	Know acute therapeutic conditions. Be able to provide assistance to these states. Educational films, schemes, tables, presentations	UM-2
P-5	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	Know the main manifestations of poisoning, types of poisons and antidotes, be able to provide first aid for poisoning. Educational films, schemes, tables, presentations	UM-2
C-1	-		
CPC-1	Organization of the activity of the emergency medical care service of Ukraine (regulatory framework). Purpose, ethical, deontological and legal aspects of emergency care for victims in a	Carry out independent preparation for the specified topic	AB-

	<p>pharmacy. 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. Tasks of the initial inspection. Technology of carrying out at the conscious and unconscious patient. Providing medical care during the initial examination. Determining further tactics at the scene.</p>	Carry out independent preparation for the specified topic	AB-
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. Status epilepticus. Emergency care in a pharmacy.</p>	Carry out independent preparation for the specified topic	AB-
CPC-4	<p>Defeat by combat poisons. Characteristics of the main toxic substances. Physiological action, antidotes and methods</p>	Carry out independent preparation for the specified topic	AB-

	of protection.	
8. Verification of learning outcomes		
Current control		
<p>is carried out during training sessions and aims to check the assimilation of students of educational m during training sessions). Forms of assessment of current educational activities should be standardized final grade for the current educational activity is set on a 4-point (national) scale</p>		
Learning outcome code	Code type to borrow	Method of verifying learning outcomes
ZH-1, UM-1	P-1	Oral questioning, application of programmed control means
ZH-1, UM-1	P-2	Oral questioning, application of programmed control means, demonstration of practical skills by students
UM-1, AB-1, K-2, ZH-2	P-3	Oral questioning, application of programmed control means, demonstration of practical skills by students
UM-1, AB-1, K-1, ZH-2	P-4	Oral questioning, application of programmed control means, demonstration of practical skills by students
UM-1, AB-4, ZH-1, K-2	P-5	Oral questioning, application of programmed control means
AB-5, K-2	CPC-1	The level of self-training, its quality and adequacy
AB-4, K-1	CPC-2	The level of presentation or abstract on the selected topic
AB-4, K-1	CPC-3	The level of self-training, its quality and adequacy
AB-3, K-1	CPC-4	The level of self-training, its quality and adequacy
Final control		
General evaluation system	Participation in the work during the semester / exam - 100% / 0% on a 200-point scale	
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 p	
Type of final control	Methods of final control	
Test	All topics submitted for current control must be included. Grades from the 4-point scale converted into points on a multi-point (200-point) scale in accordance with the Regulatory rules and procedures for evaluating the results of student learning activities"	
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</i> <i>The minimum number of points that a student must score for the current academic activity for admission to</i> <i>The calculation of the number of points is based on the grades obtained by the student on a 4-point (na</i> <i>arithmetic mean (CA), rounded to two decimal places. The resulting value is converted into points on a mu</i></p> $x = \frac{CA \times 120}{5}$		
Criteria for assessing an objective structured practical		
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 si ethics; independently perform educational tasks; correctly refer to sources of information in case of borrowing norms of academic integrity, evaluate examples of human behavior in accordance with these; evaluate exam integrity; to give a moral assessment of one's own actions, to correlate them with moral and professional norm		
10. Literature		
Required		

1. Emergency medical care: a textbook / [M. I. Shved, AA Hudyma, SM Geryak and others]; for order. MI Sw
2. First aid: a textbook / ed. VP Андриященко. Yu.F. Kushta, D.V. Andryushchenko - Lviv: LNMU. - 2011. -
3. Emergency medical care (acute heart condition) / G.G. Roschin, OM Parkhomenko, VO Krylyuk et al. : ed
4. Strong ID First aid for emergencies: a textbook / I.D. Дужий, O.B. Tailor; Sumy State University. - Sumy:
5. Emergency medical care: pre-hospital stage, manipulation algorithms (basic level). / G.G. Roschin, AA Gu
6. Medicine of urgent conditions: ambulance and emergency medical care / I.S. Zozulya, A.V. Vershigora, VI
2012. - 728 с.
7. Tarasyuk VS, Matviychuk MV Palamar MV, Polyarush VV, Korolyova ND, Podolyan VM Malik SL, Kriv
- 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, 201

Optional

1. Donald C. Correll, MD Facep. Hypotermia practice Guid // The physician assistant practice Guide. For Em
- cuta care Horizons. Jackson, TN.2012.
2. Marx, John, Ron Walls, and Robert Hockberger. Rosen's emergency medicine-concepts and clinical practice
3. Skone, Richard, et al., Eds. Managing the Critically Ill Child: A Guide for Anesthetists and Emergency Phy
4. Schneider, Andreas, Erik Popp, and Bernd W. Böttiger. "Cardiopulmonary Resuscitation." Surgical Intensiv

11. Equipment, logistics and software of the discipl

12. Additional information

Teaching the discipline at lectures is provided by methodical developments, visual aids (presentations, educat

Teaching the discipline in practical classes is provided by methodological developments, topics of independent
mannequins and other tools for practicing resuscitation skills), information resources of departments, algorithm

Independent and individual work in the study of the discipline is provided by methodological developments f

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