

SYLLABUS

INTERNATIONAL EUROPEAN
UNIVERSITY



SCHOOL OF
MEDICINE

EMERGENCY AND URGENT
MEDICAL CARE

2023



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Discipline				
		EMERGENCY AND URGENT MEDICAL CARE		
Teacher(s)				
		Sukhonos Roman Yevhenovych		
Profile of the teacher(s)				
		https://medicine.ieu.edu.ua/pro-yemsh/kafedry/kafedra-klinichnykh-dystsyplin		
Consultations				
Face-to-face consultations		Second Thursday of the month from 15:00 to 16:00		
Online consultations		Fourth Friday of the month from 15:00 to 16:00		
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Discipline page				
		https://medicine.ieu.edu.ua/pro-yemsh/kafedry/kafedra-klinichnykh-dystsyplin		
Form of final control		offset	differentiated offset	exam
		☐	☒	☐



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1 Brief summary of the discipline

Emergency and urgent medical care as an academic discipline is an integral part of clinical medicine, so learning the basic principles of this

Therefore, studying the basic principles of this field of science is an important aspect of training a doctor of any speciality. It lays the foundations for students to study anaesthesiology and intensive care of emergencies that arise in the clinic of internal medicine, paediatrics, surgery, traumatology and orthopaedics, neurosurgery, urology, obstetrics and gynaecology and other disciplines where methods of anaesthesia and intensive care are used, which involves the integration of teaching with these disciplines and the development of skills to apply knowledge in the process of further study and professional activity.

2 Prerequisite for the course

The prerequisite for studying the discipline "Emergency and urgent medical care" is that the discipline is based on the knowledge gained by students in the study of such fundamental disciplines as human anatomy; histology, biochemistry, physiology, pathomorphology; pathophysiology; propedeutics of internal medicine, paediatrics, pharmacology and is integrated with these disciplines.

3 Purpose and objectives of the discipline

The purpose of teaching the discipline "Emergency and urgent medical care" is to teach students biology, human anatomy and physiology, pharmacology, hygiene, pathological anatomy, pathological physiology, emergency medicine, therapy, surgery, and other clinical disciplines and integrates with these disciplines

The main objectives of studying the discipline "Emergency and urgent medical care" are: to teach students the main syndromes accompanying severe disorders of vital functions; to diagnose and provide medical care in emergency conditions; to interpret the general principles of intensive care in emergency conditions; to draw up an examination plan and interpret the results of laboratory and instrumental examination methods; to demonstrate the ability to perform the necessary medical manipulations; to be able to diagnose clinical death and to conduct

4 Learning outcomes

PLO-1	Have a thorough knowledge of the structure of professional activity. Be able to carry out professional activities that require updating and integrating knowledge. Be responsible for professional development, the ability to further professional training with a high level of autonomy.
PLO-3	Specialised conceptual knowledge that includes scientific achievements in the field of healthcare and is the basis for research, critical thinking in the field of medicine and related interdisciplinary issues.
PLO-4	Identify and identify the leading clinical symptoms and syndromes (according to list 1); using standard methods, using preliminary data from the patient's history, examination of the patient, knowledge of the person, his/her organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2).
PLO-5	Collect complaints, medical history, assess the patient's psychomotor and physical development, condition of organs and body systems, based on on the basis of laboratory and instrumental examination results, evaluate information on the diagnosis (according to list 4), taking into account the patient's age.



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PLO-6	To establish the final clinical diagnosis by making an informed decision and analysing the obtained subjective and objective data of clinical, additional examination, conducting differential diagnosis, following the relevant ethical and legal standards, under the supervision of a supervising physician in a healthcare facility (according to list 2).
PLO-7	Prescribe and analyse additional (mandatory and optional) methods of examination (laboratory, functional and/or instrumental) (according to list 4), patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
PLO-8	Determine the main clinical syndrome or what causes the severity of the victim's/injured person's condition (according to list 3) by making an informed decision and assessing the person's condition in any circumstances (in a healthcare facility, outside it), including in an emergency situation and hostilities, in the field, in conditions of lack of information and limited time.
PLO- 9	Determine the nature and principles of treatment of patients (conservative, surgical) with diseases (list 2), taking into account the patient's age, in a health care facility, outside it and at the stages of medical evacuation, including in the field, based on a preliminary clinical diagnosis, following the relevant ethical and legal standards, by making an informed decision according to existing algorithms and standard schemes, if necessary, expand the standard scheme, be able to justify personalised recommendations under the supervision of a medical supervisor under the supervision of a supervising physician in a medical institution.
PLO- 14	Determine the tactics and provide emergency medical care for urgent conditions (according to list 3) in a time-limited environment in accordance with existing clinical protocols and treatment standards.
PLO- 15	To organise the provision of medical care and medical evacuation measures to the population and servicemen in emergency situations and military operations, including in the field.
PLO- 16	Form rational medical routes for patients; organise interaction with colleagues in their own and other institutions, organisations and establishments; apply tools for promoting medical services in the market, based on the analysis of the needs of the population, in the conditions of functioning of the health care institution, its unit healthcare institution, its unit, in a competitive environment.
PLO- 17	Perform medical manipulations (according to List 5) in a healthcare facility, at home or at work based on a preliminary clinical diagnosis and/or patient's condition indicators by making an informed decision, in compliance with the relevant ethical and legal standards.
PLO- 21	Find the necessary information in professional literature and databases from other sources, analyse, evaluate and apply this information.
PLO- 22	Apply modern digital technologies, specialised software, statistical methods of data analysis to solve complex healthcare problems.
PLO- 24	To organise the necessary level of individual safety (own and of persons under his/her care) in the event of typical dangerous situations in the individual field of activity.
PLO- 25	Clearly and unambiguously communicate your own knowledge, conclusions and arguments on health care and related issues to professionals and non-specialists.
PLO- 27	Communicate fluently in the state language and English, both orally and in writing, to discuss professional activities, research and projects.



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Structure of the discipline

Titles of content modules and topics	Total	Among them			
		L.	Pr.	Lab.	Ind.
1	2	3	4	5	6
Topic 1 Organisation of emergency and urgent medical care in Ukraine. Initial actions of healthcare professionals in case of a patient's emergency.	8		6		2
Topic 2 Procedure for providing emergency medical care to injured and sick people at the pre-hospital stage. Initial examination.	9		6		3
Topic 3 Procedure for providing emergency medical care to injured and sick people at the pre-hospital stage. Secondary examination.	10		6		4
Topic 4 Modern means of ensuring airway patency and artificial lung ventilation in adults.	10		4		6
Topic 5 Circulatory and respiratory arrest. Technology for providing emergency medical care to adults.	11		6		5
Topic 6 Emergency medical care for mass casualties	11		4		7
Topic 7 Diagnosis and treatment of emergency conditions at the scene	11		6		5
Topic 8 Emergency medical care for mechanical injuries injuries.	10		6		4
Topic 9: Differential credit	10		4		6
Total hours	90		48		42

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Signs of discipline

Duration of teaching	Semester	International disciplinary integration	Course (year of study)	Cycles: general training/vocational training/free choice
0,5 years	XI	Yes	6st	Vocational training

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Evaluation system and requirements

Current control is carried out on the basis of control of theoretical knowledge, practical skills and skills.

The forms of current control are: oral examination (frontal, individual, combined), interview; practical testing of the formed professional skills (conducted on the basis of the results of solving clinical cases, working with medical documentation, performing practical skills, working at the patient's bedside); test control ("open" and "closed" test tasks).

Current control is mandatory. When assessing the mastery of each topic in all disciplines of the curriculum, the student is given grades on a 4-point (traditional) scale for current learning activities, taking into account the approved assessment criteria for the discipline. All types of work provided by the curriculum are taken into account. The student must receive a grade for each topic. The teacher conducts a survey of each student in the group at each lesson and gives a grade in the student's attendance and progress record on a traditional scale ("5",



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"4", "3",
"2").

When assessing a student's current learning activities, 20% of the grade is based on the student's independent work, which takes into account the knowledge of the topic of the independent lesson and the work in the notebook.

The final (summative) control is carried out: in the form of a written control work, which includes test tasks, theoretical questions; control of practical skills (solving clinical cases, defending a medical history, assessing the correctness of practical skills - a practice-oriented exam.

In accordance with the specifics of professional training, preference is given to test and practice-oriented control.

Differential test is a form of final control of student's mastering of theoretical and practical material in the discipline.

QR Code: <https://ieu.edu.ua/docs/rate-of-study.pdf>

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Conditions for admission to the final control

Students who have completed all types of work and assignments provided for in the curriculum for the semester in accordance with the discipline, attended all classes provided for in the curriculum, written and submitted a medical history and have an average score for current academic activities of at least "3" (72 points on a 120-point scale) are admitted to the semester final control.

QR Code: <https://ieu.edu.ua/docs/rate-of-study.pdf>

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Discipline policy

A prerequisite for a successful educational process is personal compliance by each student of a higher education institution with the rules of conduct accepted both at the university and in society. The future doctor must have a high level of behavioural culture, behave with dignity, tact, and self-control.

The student must be on time for classes and wear academic medical uniform (white coat or surgical suit). The student must adhere to the schedule of the educational process, come to class prepared on the topic of the class. During the class, the student must not leave the classroom without the permission of the teacher; use a mobile phone and other means of communication and information without the permission of the teacher, engage in outside activities, distract other students. When writing different types of papers, students must adhere to the rules of academic integrity.

The teacher must adhere to the implementation of the curriculum, objectively assess students' knowledge and skills. During the educational process, the teacher must be aware of anti-corruption measures and not engage in corrupt activities.

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Policy on absences and late assignments

A student who, for valid reasons, confirmed by documentary evidence, was not subject to current control has the right to pass the current control within two weeks after returning to study.

A student who was absent from classes without valid reasons, did not participate in the current control activities, did not eliminate academic debt, is not allowed to take the final semester control of knowledge in this discipline, and on the day of the exam, the academic staff member gives the grade "not admitted" in the examination record. Retaking the differentiated test in the discipline is assigned subject to the completion of all types of educational, independent (individual) work provided for in the working curriculum of the discipline and is carried out in accordance with the schedule of liquidation of academic debt approved by the directorate.

QR Code: <https://ieu.edu.ua/docs/050.pdf>

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Academic integrity policy

Participants in the educational process are guided by the principles of academic integrity



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QR Code: <https://ieu.edu.ua/docs/050.pdf>

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Recommended sources of information

Main (basic)

1. Emergency medicine. Emergency (ambulance) medical care / O.M. Goncharuk, T.M. Volosovets / VSV Medicine 2022
2. Emergency and urgent medical care. In VI volumes. Vol. IV Clinical routes (protocols) of the patient during the provision of emergency medical care at the pre-hospital stage: a textbook for students of higher education. Kryliuk V.O. et al. - Kyiv: Ozhyva, 2020. - 300 c.
3. Emergency medicine: ambulance and emergency medical care / I.S. Zozulia, A.V. Vershyhora, V.I. Bobrova et al. K.: VSV "Medicine", 2012. 728 c.
4. Forced ventilation and ensuring airway patency in the practice of emergency conditions: a textbook / V.M. Konovchuk, V.I. Rotar, S.O. Akentyev, O.V. Tkachuk, A.I. Kovtun, V.V. Petrynych, A.V. Andrushchak, P.V. Kifyak - Chernivtsi: BSMU, 2019. 158 p.
5. Emergency medical care (acute cardiac conditions) / G.G. Roshchin, O.M. Parkhomenko, V.O. Kryliuk et al. 159 c.
6. Emergency medical care: pre-hospital stage: algorithms of manipulation (basic level). Roschin G.G., Gudyma A.A., Kuzmin V.Y. et al.K., 2012. 84 p.
7. Polytrauma: surgery, traumatology, anaesthesiology, intensive care / Edited by F.S. Glumcher, P.D. Fomin, E.G. Pedachenko et al. K.: VSI "Medicine", 2012. 736 c.
8. Order of the Ministry of Health of Ukraine of 05.06.2019 No. 1269 "Emergency medical care: pre-hospital stage. New clinical protocol".
9. Disaster medicine / I.V. Kochin, G.O. Chernyakov, P.I. Sydorenko: edited by I.V. Kochin. K.: Zdorovye, 2008. 724 c.
10. Emergency care, 14th edition / Daniel J. Limmer, Michael F. Okeefe / 2020.
11. Jean- Louis Vincen, Edward Abraham Textbook of critical care. Elsevier; 7th Edition, 2017 9. International Trauma Life Support I Prehospital care for trauma. Edited by J. E. Campbell, Roy L. Upson / Practical Medicine, Krakow, 2018

Additional:

1. First aid Trauma (algorithms, manipulations): Methodological manual / V.O. Kryliuk, V.Y. Kuzmin, I.V. Kuzminsky, et al. - Kyiv, 2017. - 84 c.
2. Etegdpsu and Ihdepi Medisa1 Sage: ziidepi ihdepi tapia1 / O. Budulev [et al. - Vinnytsia: Nova Knyha, 2019. - 200 p.
3. Emergency medical care for servicemen at the pre-hospital stage in armed conflicts: Textbook / Badiuk M.I., Kovyda D.V., Mykyta O.O., Kozachok V.Y., Sereda I.K., Shvets A.V. // Edited by Professor Badiuk M.I. - K.: SPD. Chalchynska N.V., 2018. - 212 c.
4. Medicipe Gogh and the Oeuvre of Moogs: iie ezeplia1 diMe io Gigli aid apd tedisa1 etegdepsiez / Rai1
8. Aiegbas. - 6th ed: E1zeuieg, 2016. - IX, 549 p.

Information resources:

1. <https://moz.gov.ua/> - Ministry of Health of Ukraine, register of medical technology documents
2. <http://www.nbuv.gov.Ua/> - Vernadsky National Library of Ukraine
3. <http://www.euroanesthesia.org> - European Association of Anaesthetists
4. <http://www.esicm.org>
5. <https://www.cochrane.org> - Cochrane Library: Cochrane Reviews Cochrane Database of Systematic Reviews
6. <http://www.nlm.nih.gov/> US National Library of Medicine (NLM) I Resources for Researchers / Biomedical literature
7. <https://www.ncbi.nlm.nih.gov/> NCBI - National Centre for Biotechnology Information
8. <http://www.pubmed.gov> I PubMed - electronic database of medical and biological publications
9. <http://www.library.gov.ua/> National Scientific Medical Library of Ukraine
11. <http://www.pubmed.com/> English-language text database of medical and biological publications
12. <https://emedicine.medscape.com/> English-language web resource for doctors and other healthcare professionals.
13. Centres for Disease Control and Prevention //www. cdc.gov
14. Centers for Disease Control and Prevention (CDC) - Access mode: http://www.cdc.gov/foodborneoutbreaks/info_healthprofessional.htm



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15. UNC Gillings School of Global Public Health - Access mode: http://www.sph.unc.edu/courses/Course_support/Case_studies
16. Institute for Health Metrics and Evaluation - Access mode: <http://vizhub.healthdata.org/gbd-compare/>
17. European Society of Clinical Pharmacologists and Pharmacotherapists: <http://www.eacpt.org>

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Tips for successful studying on the course

If you want to be successful in this discipline, you need to:

1. Be active, persistent, inquisitive, consistent
2. Be tidy and polite
3. Systematically prepare for practical classes
4. Perform tasks for independent work and defend them in class.
5. To be present at the class in a medical gown
6. To solve tests and tasks independently, to work actively in class.
7. Prepare presentations and crosswords on the discipline. Participate in student scientific conferences and engage in research work in the department's scientific circles.

I wish you perseverance, dedication and motivation to learn. And then success will come to you! See you in class!

Don't forget your medical gowns!