MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA

Federal State Budgetary Educational Institution of higher education

«I.N. Ulianov Chuvash State University»

(FSBEI of HE «I.N. Ulianov Chuvash State University»)

Medical Faculty

Department of Internal Diseases

«APPROVE»
Vice-rector for Academic Affairs

_____ I.E. Poverinov

«13» 04 2022

Working programs of the discipline (module) «Неотложная помощь на догоспитальном этапе / Emergency Care at the Pre-Hospital Stage»

Direction of training / specialty 31.05.03 Стоматология / Dentistry
Graduate's qualification Врач-стоматолог / Dental Practitioner

Direction (profile) / specialization «Dentistry»

Form of training – очная / intramural
Course – 5
Term – 9
Total academic hours/credit points – 108/3
The year of beginning the training – 2022

Cheboksary - 2022

The fundamental document for compiling the working program of the discipline (module) Федеральный государственный образовательный стандарт высшего образования - специалитет по специальности 31.05.03 Стоматология (приказ Минобрнауки России от 12.08.2020 г. № 984)

Approved by:
associate professor, Candidate of Medical Sciences N.A. Komelyagina

The working program was approved at the meeting of the Department of Internal Diseases,
25.03.2022, protocol № 12
Head of the department L. M. Karzakova

Approved by
Dean of the Medical Faculty V.N. Diomidova
Acting Head of the Educational and Methodological Department E.A. Shirmanova

1. The purpose and objectives of training in the discipline (module)

The purpose of the discipline - to teach students in the specialty 31.05.03- "Dentistry", knowledge of the most common urgent conditions of the therapeutic profile, the ability to independently examine patients, develop a strategy for diagnostic, therapeutic actions.

The objectives of the discipline - - acquisition of knowledge of etiology, pathogenesis, classifications, clinical manifestations of the most common internal diseases;

- - training is the most important method of examination, allowing to diagnose internal diseases;

- training in the ability to identify the leading clinical signs, symptoms, syndromes, to determine the severity of the patient's condition;

- training in choosing the optimal methods of clinical and instrumental examination for internal diseases and drawing up an algorithm for differential diagnosis;

- development of skills in providing first aid to therapeutic patients in case of emergency conditions at the pre-hospital stage;

- training in the choice of optimal schemes for non-drug and drug treatment of the most common diseases of internal organs at the pre-hospital stage.

2. The place of practical training in the structure of the educational program of higher education

The discipline «Неотложная помощь на догоспитальном этапе / Emergency Care at the Pre-Hospital Stage» относится к части учебного плана формируемой участниками образовательных отношений refers to the mandatory part in the curriculum of the educational program of higher education (hereinafter referred to as the EP of HE) in the field of training / specialty 31.05.03 Стоматология, direction (profile) / specialization of the program «Dentistry».

Previous academic disciplines (modules) and (or) practices that form the knowledge, skills and abilities necessary for training in the discipline (module):

Клиническая фармакология / Clinical Pharmacology

Производственная практика (практика по получению профессиональных умений и опыта профессиональной деятельности (по терапевтической стоматологии)) / On-the- job training (practical training in obtaining professional skills and professional experience (in therapeutic dentistry))

Хирургическая стоматология / Surgical Dentistry

Фармакология / Pharmacology

Детская стоматология / Pediatric Dentistry

Челюстно-лицевая хирургия / Maxillofacial Surgery

Knowledge, skills and abilities formed as a result of training in a discipline (module) are necessary when teaching in the following disciplines (modules) and (or) practices:

Дентальная имплантация в стоматологии / Dental Implantation in Dentistry

Подготовка к сдаче и сдача государственного экзамена / Preparation for passing and passing the state exam

3. Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Planned learning outcomes in the discipline (module), correlated with the planned learning outcomes

Code and name of the competence	Code and name of the competence achievement	Descriptors for the indicator of competence achievement (learning)

ПК-2 Способен назначить, контролировать эффективность и безопасность немедикаментозного и медикаментозного лечения / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmaceutical treatment	ПК-2.1 Способен разработать план лечения, назначить лекарственные препараты, немедикаментозное лечение, медицинские изделия в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями (протоколами лечения) по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи / He/she is able to develop a treatment plan, prescribe medications, non-drug treatment, medical devices in accordance with current procedures for providing medical care, clinical recommendations (treatment protocols) on the issues of providing medical care, taking into account the standards of medical care	Знать: - групповую принадлежность ЛС на основании вида его фармакологического действия. Типы названий лекарственных препаратов; -основные фармакологические характеристики лекарственных препаратов; -характеристику основных фармакокинетических параметров лекарственных препаратов, их изменение в зависимости от возраста, наличия сопутствующей системной патологии, фоновых соматических состояний; - порядки оказания неотложной медицинской помощи на догоспитальном этапе, клинические рекомендации, протоколы лечения по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи. Уметь: - проводить адекватный выбор наиболее эффективных, безопасных и доступных лекарственных препаратов; -определять оптимальный режим дозирования; выбирать лекарственный препарат, дозу, путь, кратность и длительность введения ЛС в зависимости от фармакодинамики и фармакокинетики, возраста, пола, клинического и физиологического состояния пациента при оказании неотложной помощи на догоспитальном этапе. Владеть: - навыками с учетом вида, локализации и тяжести течения заболевания, срочности оказания помощи и получения эффекта осуществлять: выбор вида терапии (системная, местная), выбор группы лекарственного препарата;

		- навыками выбора конкретного лекарственного препарата с учетом фармакодинамики и фармакокинетики, механизма действия ЛС, нежелательных лекарственных реакций и возможных лекарственных взаимодействий; - навыками выбора лекарственной формы, дозы и пути введения препаратов, схемы дозирования (кратность, зависимость от приема пищи и других ЛС); - проведением комбинированного назначения лечения; - навыками дозирования лекарственных препаратов, в том числе выбор лекарственного препарата в зависимости от соматического состояния, развития неотложных состояний на догоспитальном этапе.
ПК-2 Способен назначить, контролировать эффективность и безопасность немедикаментозного и медикаментозного лечения / He/she is able to prescribe, monitor the effectiveness and safety of non-drug and pharmaceutical treatment	ПК-2.2 Способен контролировать эффективность и безопасность назначенного лечения, при необходимости корректировать его в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями (протоколами лечения) по вопросам оказания медицинской помощи с учетом стандартов медицинской помощи / He/she is able to monitor the effectiveness and safety of the prescribed treatment, if necessary, adjust it in accordance with current procedures for providing medical care, clinical recommendations (treatment protocols) on	Знать: -особенности режимов дозирования лекарственных препаратов при системном и местном применении; -методы оценки клинической эффективности и безопасности применения основных групп лекарственных препаратов; -основные виды лекарственных взаимодействий; -классификацию нежелательных лекарственных реакций и порядок регистрации нежелательных лекарственных реакций. Способы профилактики и коррекции; -основы формулярной системы (формулярный список, формулярная статья, формулярный справочник), стандарты диагностики и медикаментозного лечения; -принципы медицины, основанной на доказательствах; -основные представления о порядке проведения

	providing medical care, taking into account the standards of medical care	клинических исследований лекарственных препаратов. принципах качественной клинической практики; -понятие полипрагмазии (частота, опасность, экономические аспекты). Уметь: - оценивать эффективность лекарственных препаратов с помощью клинических и лабораторных исследований; - прогнозировать, предупреждать, выявлять и проводить коррекцию нежелательных лекарственных реакций; -ориентироваться в научной информации о клинических исследованиях лекарственных препаратов, их объективности, соответствии правилам качественной клинической практики; - проводить оценку выбора, эффективности и безопасности применения лечения у конкретного больного; - контролировать эффективность и безопасность назначенного лечения, корректировать его в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями (протоколами лечения) по вопросам оказания неотложной медицинской помощи на догоспитальном этапе с учетом стандартов медицинской помощи Владеть: - навыками контроля эффективности и безопасности назначенного лечения, прогнозирования риска развития нежелательных лекарственных реакций; - навыками выбора методов оценки эффективности и безопасности лечения при

		оказании неотложной помощи на догоспитальном этапе; - навыками коррекции эффективности и безопасности назначенного лечения в соответствии с действующими порядками оказания медицинской помощи, клиническими рекомендациями (протоколами лечения) по вопросам оказания неотложной медицинской помощи на догоспитальном этапе с учетом стандартов медицинской помощи.

4. Structure, scope and content of the discipline (module)

Educational activities in the discipline (module) are carried out:

- in the form of students' face-to-face work with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (hereinafter - contact work);

- in the form of students' independent work.

Face-to-face work can be classroom-based, extramural, as well as it can be conducted in an electronic information and educational environment (EIEE).

Learning sessions in the discipline (module) and interim assessment of students are conducted in the form of face-to-face work and in the form of students' independent work.

During learning sessions in the discipline (module) face-to-face work includes: lecture -type classes, seminar-type classes and (or) group consultations, and (or) individual work of students with the teaching staff of the organization and (or) persons involved by the organization to implement the educational programs on other terms (including individual consultations).

Legend:

Lec – lectures, Lab – laboratory work, Pr – practical classes, ICW – individual face-to -face work, IW – independent work.

4.1. Content of the discipline (module)

Section name	The section's content	Formed competences	Competence achievement indicator
Section 1. General issues of resuscitation in emergency conditions.	General questions of resuscitation in emergency conditions.	ПК-2	ПК-2.1, ПК-2.2
Section 2. Urgent conditions in the clinic of internal diseases	Primary cardiopulmonary resuscitation.		
	Acute coronary syndrome.		
	Acute heart failure.		

Section 2. Urgent conditions in the clinic of internal diseases	Cardiac rhythm and conduction disorders.	ПК-2	ПК-2.1, ПК-2.2
	Worsening of the course of hypertension. Hypertensive crisis.		
	Acute vascular insufficiency Fainting. Collapse. Shock states.		
	Acute respiratory failure (ODN). Bronchial asthma. Acute allergic reactions.		
Individual contact work	Individual contact work.		

4.2. Scope of the discipline and types of academic work

Forms of control and types of academic work		Labor intensity of the discipline (module)	
		9	total
1. Face-to-face work:		48,2	48,2
In-class learning in total, including:		48	48
Лекционные занятия (Лек)		16	16
Лабораторные занятия (Лаб)		32	32
Индивидуальная контактная работа (ИКР)		0,2	0,2
2. Independent work of the student:		59,8	59,8
3. Intermediate certification (exam) (зачет)		Зa	Зa
Total:	academic hours	108	108
	credit units	3	3

№ item	The section's (theme's) name	Face-to face work, including in the electronic information and educational environment, academic hours				IW, academic hours	Total, academic hours
		Lect.	Pr.	Lab.	ICW		
	Section 1. General issues of resuscitation in emergency conditions.						
1	General questions of resuscitation in emergency conditions.	2		4		3,8	9,8

	Section 2. Urgent conditions in the clinic of internal diseases						
2	Primary cardiopulmonary resuscitation.	2		4		8	14
3	Acute coronary syndrome.	2		4		8	14
4	Acute heart failure.	2		4		8	14
5	Cardiac rhythm and conduction disorders.	2		4		8	14
6	Worsening of the course of hypertension. Hypertensive crisis.	2		4		8	14
7	Acute vascular insufficiency Fainting. Collapse. Shock states.	2		4		8	14
8	Acute respiratory failure (ODN). Bronchial asthma. Acute allergic reactions.	2		4		8	14
	Individual contact work						
9	Individual contact work.				0,2		0,2
Total academic hours		16		32	0,2	59,8	108

4.3. Summary of the discipline (module), structured by sections (topics)

Раздел 1. Section 1. General issues of resuscitation in emergency conditions.

Тема 1. General questions of resuscitation in emergency conditions.

Лекционное занятие. General questions of resuscitation in emergency conditions.

Organization of emergency care at the pre-hospital stage.

Regulatory legal acts regulating the activities of medical workers in providing assistance at the pre-hospital stage (orders, functional responsibilities, standards, protocols, forms of documentation).

The main parameters of vital activity. Features of the diagnosis of emergency conditions. The concept of "emergency condition", classification of emergency conditions.

The basic principles and scope of medical care at the pre-hospital stage. The algorithm of action in case of emergency conditions at the pre-hospital stage in accordance with the standards of emergency medical care. Interaction with the operational department (dispatcher) of the NSR station. Indications for calling specialized teams. Rules of personal safety when providing emergency care at the pre-hospital stage. Infection safety. Rules for transporting patients.

Лабораторное занятие. General questions of resuscitation in emergency conditions.

The content of the laboratory lesson: The main parameters of vital activity. Features of the diagnosis of emergency conditions. The concept of "emergency condition", classification of emergency conditions. The basic principles and scope of medical care at the pre-hospital stage. The algorithm of action in case of emergency conditions at the pre-hospital stage in accordance with the standards of emergency medical care. Indications for calling specialized teams.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital and hospital stages, features of emergency care.

Раздел 2. Section 2. Urgent conditions in the clinic of internal diseases

Тема 2. Primary cardiopulmonary resuscitation.

Лекционное занятие. Primary cardiopulmonary resuscitation.

The concept of "terminal state". Physiological indicators of vital functions of the adult body. Types and clinical manifestations of terminal conditions.

Circulatory arrest: causes, signs. Respiratory arrest: causes, signs. Criteria for assessing the severity of the patient's condition. Signs of clinical and biological death. Components of the primary and specialized resuscitation complex: restoration of airway patency, ventilation, oxygenation, indirect heart massage, defibrillation, tracheal intubation. Indications for termination of resuscitation. Safety precautions during primary CPR.

Лабораторное занятие. Primary cardiopulmonary resuscitation.

The content of the laboratory lesson: Types and clinical manifestations of terminal conditions. Criteria for the severity of the patient's condition. Clinical and biological death. Acquaintance with the primary resuscitation complex, with CPR equipment. Performing CPR on a phantom. Performing CPR in standard and non-standard situations. Features of transportation. Monitoring of vital functions during primary CPR.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

Тема 3. Acute coronary syndrome.

Лекционное занятие. Acute coronary syndrome.

Acute coronary syndrome : causes, possible complications, differential diagnosis.

Features of physical and instrumental examination at the prehospital stage. Biochemical express studies in acute myocardial infarction (troponin, myoglobin). Medications for emergency care at the prehospital stage: methods of application, selection of doses and complications of therapy. Features of transportation and monitoring of the patient's condition.

Лабораторное занятие. Acute coronary syndrome.

Lesson content: Diagnosis and differential diagnosis of acute coronary syndrome. Tactics in the provision of emergency care. Selection of medicines, routes of administration and selection of doses. Assessment of the effectiveness of emergency care. Filling out medical documentation. Indications for hospitalization and transportation of the patient to the hospital.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

Тема 4. Acute heart failure.

Лекционное занятие. Acute heart failure.

Acute heart failure: causes, variants, differential diagnosis. Critical conditions in OSN (cardiogenic shock, cardiogenic pulmonary edema). Pulmonary embolism (PE).

Features of physical and instrumental examination at the prehospital stage. The choice of tactics and algorithm of emergency care at the prehospital stage in acute heart failure. Medications for emergency care at the prehospital stage: methods of application, selection of doses and complications of therapy.

Лабораторное занятие. Acute heart failure.

The content of the laboratory lesson:

Right ventricular OSN. Left ventricular basic Differential diagnosis. Tactics in providing assistance. The choice of drugs, the route of administration and the selection of doses.

Critical conditions in OSN (cardiogenic shock, cardiogenic pulmonary edema). TELA. Emergency care. Tactics in providing assistance. Filling out medical documentation.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

Тема 5. Cardiac rhythm and conduction disorders.

Лекционное занятие. Cardiac rhythm and conduction disorders.

Cardiac arrhythmias and conduction disorders: causes, classification, clinical manifestations.

Features of physical and instrumental examination at the prehospital stage. The choice of tactics and algorithm of emergency care at the prehospital stage in case of cardiac arrhythmias in the patient. The method of oxygen therapy according to indications.

Medications for emergency care at the prehospital stage: methods of application, selection of doses and complications of therapy.

Лабораторное занятие. Cardiac rhythm and conduction disorders.

The content of the laboratory lesson: Physical methods of examination of patients with cardiac arrhythmias and conduction disorders (tachyarrhythmia, bradyarrhythmia, complete AV block, atrial fibrillation, ventricular fibrillation) requiring emergency care. ECG removal technique. "ECG"- criteria with these violations. Medical and non-medical emergency care. Complications of therapy. Indications for hospitalization. Analysis of the most common errors.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

Тема 6. Worsening of the course of hypertension. Hypertensive crisis.

Лекционное занятие. Hypertensive crisis.

Hypertensive crisis: causes, forms, clinical manifestations and complications.

Medications for emergency care at the prehospital stage: methods of application, selection of doses and complications of therapy.

An algorithm for providing emergency care at the prehospital stage to patients with complicated and uncomplicated hypertensive crisis. Indications for hospitalization. Features of transportation and monitoring of the patient's condition.

Лабораторное занятие. Hypertensive crisis.

The content of the laboratory lesson: The main clinical manifestations of a hypertensive crisis, diagnostic methods, differential diagnosis. The choice of tactics and algorithm of emergency care in complicated and uncomplicated hypertensive crisis. Selection of medications, routes of administration and selection of doses. Therapeutic manipulations. Determination of indications for hospitalization. Provision of post-syndrome emergency medical care. Assessment of the effectiveness of emergency medical care. Filling out medical documentation.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

Тема 7. Acute vascular insufficiency Fainting. Collapse. Shock states.

Лекционное занятие. Acute vascular insufficiency Fainting. Collapse. Shock states.

Definition of the concepts of fainting, collapse, shock. Pathogenesis of syncope, collapse, shock states. Clinical picture.

Differential diagnosis. The choice of tactics and algorithm of emergency care at the pre-hospital stage. Shock control criteria. Indications for a ventilator. Directions of therapy.

Лабораторное занятие. Acute vascular insufficiency Fainting. Collapse. Shock states.

The content of the laboratory lesson: Clinic of fainting, collapse, shock states. The algorithm of rendering assistance in case of fainting, collapse, shock states. Criteria for monitoring the patient's condition. Common errors.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

Тема 8. Acute respiratory failure (ODN). Bronchial asthma. Acute allergic reactions.

Лекционное занятие. Acute respiratory failure (ODN). Bronchial asthma. Acute

allergic reactions.

ONE: causes, characteristic signs, severity, hypoxemic coma, differential diagnosis. Features of physical and instrumental examination at the prehospital stage with ODN. Indications for a ventilator. Medications for emergency care at the prehospital stage: methods of application, selection of doses and complications of therapy.

Diagnostic criteria of bronchial asthma, clinical picture of emergency conditions. Differential diagnosis of conditions accompanied by acute dyspnea. Features of physical examination during an attack of bronchial asthma. Additional examination methods (picfluometry). Criteria for assessing the severity, signs of a life-threatening asthma attack. Asthmatic status. The choice of tactics and algorithm of emergency care for bronchial asthma at the prehospital stage. Indications for hospitalization. Features of transportation and monitoring of the patient's condition.

Causes of acute allergoses, the most common allergens. Classification, clinical manifestations of acute allergoses. Severe (prognostically unfavorable) allergoses. The choice of tactics and algorithm of emergency care at the pre-hospital stage. Antiallergic and symptomatic therapy. Anti-shock measures.

Лабораторное занятие. Acute respiratory failure (ODN). Bronchial asthma. Acute allergic reactions.

The content of the laboratory lesson: Diagnostics of ODN at the prehospital stage. Elimination of the causes of ODN, correction of hypoxemia. Ventilator, tracheal intubation, conicotomy. Methods of monitoring spontaneous respiration and ventilation. Urgent conditions in bronchial asthma, diagnostic criteria, assessment of severity, features of therapy. The algorithm of emergency care for complications of bronchial asthma. Use of inhalation devices. Errors in diagnosis and assistance. Indications for hospitalization, features of transportation Recommendations to non-hospitalized patients.

Diagnosis of severe allergoses. The algorithm of emergency care for Quincke's edema, generalized urticaria, anaphylactic shock. Transportation and monitoring of patients' condition. Tactics in relation to non-hospitalized patients.

Curation of patients with analysis of the criteria for diagnosis, the results of the examination, management tactics at the pre-hospital stage, features of emergency care.

5. Educational technologies

To implement the competence-based approach in the study of the discipline (module), extensive use of active and interactive methods of conducting classes in the educational process is provided:

When conducting educational work on the discipline "Emergency care at the pre- hospital stage", the main emphasis is given to laboratory (classroom) work, using active learning methods and is aimed at the formation and development of professional skills of students. Active and interactive forms of teaching are widely used in the educational process in the form of analysis of diseases in patients, business and role-playing games, analysis of specific situations, computer demonstrations of disease histories, discussions. Extracurricular work of students includes visits to simulation centers, conferences, participation in master classes of experts and specialists in combination with independent search for new literary data on the Internet.

The constituent elements of educational technologies are:

lectures – an interactive form of teaching is also used to present new material, namely, analysis of nosological forms of diseases, discussion of topical issues of etiology, pathogenesis, clinic, diagnosis, treatment, issues of preventive aspects of work;

laboratory classes are conducted with the supervision and analysis of patients according to the topics of classes, using therapeutic and diagnostic potential, multimedia support;

the use of multimedia tools (presentations, videos, projectors) – to improve the quality of perception of the studied material;

the use of diagnostic kits is for obtaining a full–fledged perception of the patient and solving issues of a therapeutic and preventive nature;

supervised homework – to encourage students to work independently;

control works – for intermediate certification and assessment of the degree of assimilation of the material passed by students.

situational tasks, role–playing games - to assess the degree of assimilation of the material studied by students.

6. Forms of control and types of evaluation materials for the discipline (module)

Intermediate attestation - evaluation of intermediate and final results of training in the discipline (module).

6.1. Sample list of questions for the credit test

1. Diagnosis of Quincke's edema. Provision of qualified medical care (PC-2).
2. Clinic of acute left ventricular failure - cardiac asthma, pulmonary edema. Provision of qualified medical care (PC-2).
3. Emergency care for anaphylactic shock (PC-2).
4. Emergency care for bradyarrhythmia (PC-2).
5. Emergency care for hypertensive crisis complicated by acute cerebrovascular accident (PC-2).
6. Emergency care for hypertensive a crisis complicated by pulmonary edema (PC-2).
7. Emergency care for hypertensive crisis (PC-2).
8. Emergency care for cardiogenic shock (PC-2).
9. Emergency care for acute myocardial infarction (PC-2).
10. Emergency care for paroxysmal atrial fibrillation (PC-2).
11. Emergency care for bronchial asthma attack (PC-2).
12. Emergency care with pulmonary embolism (PC-2).
13. Emergency care for pulmonary bleeding (PC-2).
14. Differential diagnosis of gastrointestinal bleeding (PC-2).
15. Complications of pneumonia. Emergency care for acute respiratory distress syndrome (PC-2).

16. Acute cardiovascular insufficiency. Shock. First aid (PC-2).

17. Principles of diagnosis and treatment of acute left ventricular failure – cardiac asthma, pulmonary edema (PC-2).

18. Tactics of a dentist with pain in the heart (PC-2).

19. Tactics of a dentist with a hypertensive crisis (PC-2).

20. Tactics of a dentist with anaphylactic shock (PC-2).

21. Tactics of a dentist with paroxysmal heart rhythm disorders in a patient (PC-2).

22. Tactics of a dentist with a bronchial asthma attack (PC-2).

23. Examination of patients with emergency conditions at the prehospital stage (PC-2).

24. Determination of the severity of the patient's condition (PC-2).

25. Differential diagnosis in ACS (PC-2).

26. Portable diagnostic and resuscitation equipment (PC-2).

27. Provision of post-syndrome emergency medical shock treatment (PC-2).

28. Evaluation of the effectiveness of emergency medical care in case of an attack of bronchial asthma (PC-2).

29. Cardiopulmonary resuscitation (PC-2).

30. Control of the main parameters of vital activity (PC-2).

31. Determination of indications for hospitalization and transportation of a patient with acute allergoses (PC-2).

32. Monitoring of the patient's condition at all stages of pre-hospital care (PC-2).

6.2. Sample list of questions for the examination

Not provided.

6.3. Suggested themes of term papers (projects)

Not provided.

6.4. Suggested themes of term projects

Not provided.

6.5. Suggested topics of calculation and graphic works

Not provided.

7. Educational, methodological, informational and software support of the discipline (module)

The electronic catalog and electronic information resources provided by the scientific library of the FSBEI of HE "I. N. Ulianov Chuvash State University" are available at the link http://library.chuvsu.ru/

7.1. Regulatory documents, standards and rules

1. The Constitution of the Russian Federation: (adopted by the National Assembly. by a vote of 12 Dec. 1993) : (as amended, introduced. By the Law of the Russian Federation on Amendments to the Constitution of the Russian Federation dated July 21, 2014 No. 11-FKZ). – Text : electronic // ConsultantPlus: reliable legal support : ofic. website. – URL: http://www.consultant.ru/document/cons_doc_LAW_28399/

2. Federal Law No. 323-FZ of November 21, 2011 "On the basics of public health protection in the Russian Federation"

3. Federal Law "On Compulsory Medical Insurance in the Russian Federation" No. 326-FZ dated November 29, 2010. (as amended on 12/28/2013 No. 390 FZ)

4. Law of the Russian Federation of 07.02.1992 No. 2300-1 "On Consumer Rights Protection"

5. Federal Law of the Russian Federation No. 59-FZ of 02.05.2006 On the Procedure for Considering appeals from Citizens of the Russian Federation"

6. Order of the Ministry of Health of the Russian Federation No. 923n of 15.11.2012 "On approval of the Procedure for providing medical care to adults in the "therapy" profile". Registered by the Ministry of Justice of Russia on December 29, 2012 .

7. The Code of Professional Ethics of a doctor of the Russian Federation. Adopted by the First National Congress of Doctors of the Russian Federation (Moscow, October 5, 2012)

8. Order of the Ministry of Health and Social Development of Russia "On approval of the list of conditions in which first aid is provided and the list of first aid measures" No. 477n dated May 4, 2012

7.2. Recommended basic educational and methodological literature

№ item	Name
1	М. П. Кончаловский [и др.] ; под общей редакцией М. П. Кончаловского. Внутренние болезни. Избранные лекции [Электронный ресурс]:учебник. - Москва: Юрайт, 2022. - 497 с – Режим доступа: https://urait.ru/bcode/494777
2	Скорая и неотложная помощь. Общие вопросы реаниматологии [Электронный ресурс]:учебное пособие. - Москва: ГЭОТАР-Медиа, 2021. - 128 с. – Режим доступа: https://www.studentlibrary.ru/book/ISBN9785970460078.html

7.3. Recommended supplementary educational and methodological literature

№ item	Name
1	Моисеев В. С., Мартынов А.И., Мухин Н.А. Внутренние болезни : Том 1 [Электронный ресурс]:учебник. - Москва: ГЭОТАР-Медиа, 2019. - 960 с. – Режим доступа: https://www.studentlibrary.ru/book/ISBN9785970453148.html
2	Моисеев В. С., Мартынов А.И., Мухин Н.А. Внутренние болезни : Том 2 [Электронный ресурс]:учебник. - Москва: ГЭОТАР-Медиа, 2019. - 896 с. – Режим доступа: https://www.studentlibrary.ru/book/ISBN9785970453155.html

7.4. List of resources of the "Internet" information and telecommunication network

№ item	Name	Link to the resource
1	Корячкин, Эмануэль, Страшнов. Анестезиология, реанимация, интенсивная терапия. Клинико-лабораторная диагностика [Электронный ресурс]:Учебник для вузов. - Москва: Юрайт, 2020. - 507 с	https://urait.ru/bcode/451627

2	Внутренние болезни [Электронный ресурс]:Учебное пособие. - Саратов: Научная книга, 2019. - 159 c.	http://www.iprbookshop.ru/81003.html

7.5. Software, professional databases, information and reference systems, electronic educational resources and electronic library systems

Software, professional databases, information and reference systems provided by the Informatization Department of the FSBEI of HE "I.N. Ulianov Chuvash State University" are available for download at the link http://ui.chuvsu.ru //. The Unified Register of Russian programs for electronic computers and databases, including freely distributed ones, is available at the link reestr.minsvyaz.ru/reestr /.

7.5.1. Licensed and freely distributed software

Microsoft Windows operating System and/or Unix-like operating system and/or mobile operating system;

Office software packages:

Microsoft Office and/or LibreOffice

and (or) OpenOffice and (or) analogues;

Browsers, including Yandex.Browser.

List of software:

7.5.2. Lists of professional databases and (or) information reference systems and (or) electronic library systems and (or) electronic educational resources

8. Material and technical support of the discipline

Classrooms for lecture-type classes in the discipline are equipped with a teacher's automated workplace consisting of: a personal computer/laptop, multimedia equipment with a screen and (or) SMART interactive whiteboard/SMART TV.

The premises for students' independent work are equipped with computer equipment enabling to connect to the Internet and provide access to the electronic information and educational environment of the FSBEI of HE "I.N. Ulianov Chuvash State University".

№ item	Lesson type	Brief description and characteristics of the composition of installations, measuring and diagnostic equipment, computer equipment and experimental automation tools
1	Лаб	Учебная аудитория для занятий семинарского типа, текущего контроля и промежуточной аттестации. Оборудование: компьютерная техника с необходимым программным обеспечением, с подключением к сети Интернет и обеспечением доступа в электронную информационно-образовательную среду университета, мультимедийное оборудование (проектор, экран, ПК или ноутбук), учебная доска, учебная мебель

2	Лек	Учебная аудитория для проведения занятий лекционного и семинарского типа, текущего контроля и промежуточной аттестации. Учебная мебель. Оборудование: учебная доска Стационарное и/или переносное мультимедийное оборудование.
3	Ср	Помещение для самостоятельной работы обучающихся. Учебная мебель. Компьютерная техника с возможностью подключения к сети «Интернет» и обеспечением доступа в электронную информационно-образовательную среду университета. Стационарное и/или переносное мультимедийное оборудование.

9. Means of adapting the discipline teaching to the needs of persons with physical conditions

If necessary, persons with physical conditions can be offered one of the following options for perceiving information, taking into account their individual psychophysical characteristics:

1) using e-learning and distance learning technologies.

2) using special equipment (enginery) and software in accordance with the students' health restrictions in the Training Centers for Persons with Disabilities and Physical Conditions (hereinafter referred to as special needs) available at the university.

In the course of training, if necessary, the following conditions are provided for persons with visual, hearing and musculoskeletal disorders:

- for persons with visual impairments: educational and methodological materials in printed form in enlarged font; in the form of an electronic document; in the form of an audio file (conversion of educational materials into audio format); in printed form in Braille; individual consultations involving a tactile interpreter; individual assignments and consultations.
- for people with hearing impairments: educational and methodological materials in printed form; in the form of an electronic document; video materials with subtitles; individual consultations involving a sign language interpreter; individual assignments and consultations.
- for persons with disorders of the musculoskeletal system: educational and methodological materials in printed form; in the form of an electronic document; in the form of an audio file; individual assignments and consultations.

10. Guidelines for students to perform independent work

The purpose of the student's independent work (IW) is to consolidate the theoretical knowledge gained and to acquire practical skills in using and performing research of algorithms and data structures when designing application software programs. IW includes independent study of educational issues, preparation for laboratory classes, performing calculation and graphic work, preparation for a test and an exam.

The list of questions and tasks for independent work to prepare for laboratory classes is given in the corresponding methodological instructive regulations in the description of each laboratory work.

The list of questions and tasks for independent work to carry out calculation and graphic work is given in the relevant methodological instructive regulations.

Independent work of students is an integral part of the educational process. The purpose of independent work of students is to master fundamental knowledge, professional skills and skills, experience in creative, research activities.

The main forms of organizing independent work of students are: classroom independent work under the guidance and supervision of a teacher (at lectures, laboratory classes, etc. and consultations); extracurricular independent work under the guidance and supervision of a teacher (during consultations, during research work), extracurricular independent work - planned educational, research, research work of students, performed during extracurricular time on the assignment and with the methodical guidance of the teacher, but without his direct participation.

When performing independent work, students should rely mainly on the knowledge and skills acquired in lectures, laboratory classes, group and individual classes. This provides the necessary basis for further in-depth study of other disciplines. However, this knowledge needs to be activated.

The forms of independent work of students provided by the discipline include:

- Preparation for laboratory classes, group and individual classes.
- Independent study of educational issues.
- Preparation for the test.

The following sources are recommended for independent preparation for laboratory, group and individual classes, study of educational issues, preparation for the test:

- lecture notes and materials of laboratory, group and individual classes;
- educational (scientific) literature of the relevant profile;
- Internet resources.

At the beginning of the course, the teacher informs students about the forms, types and content of independent work, explains the requirements for the results of independent work, as well as forms and methods of control and evaluation criteria.

According to the questions proposed by the teacher, the student studies the content of recommended sections, chapters, paragraphs, textbooks, textbooks and monographs; statistical collections; reviews; articles in periodicals. Regulatory legal acts are investigated using the legal bases "Consultant – Plus" or "Guarantor", as well as Internet resources. The forms of control of such individual work are surveys in practical, group and individual classes, checking notes, conclusions.

Individual creative tasks involve:

- preparation of analytical individual work on the topic proposed by the teacher. The completed task is evaluated taking into account the quality of the analysis, identification of factors, causes, conditions of changes, trends; justifying conclusions; proposals put forward by the author;
- preparation for a discussion, a business game, etc.;
- a critical review of articles from the list recommended by the teacher, etc.

Test tasks are a form of ongoing control. They are designed to highlight the main provisions of the discipline, to understand the features based on theory, to repeat and consolidate the educational material, to test knowledge, to control residual knowledge.

The topics submitted for independent study, students need to take notes. The summary summarizes the main essence of the educational material, provides the necessary tabular data, diagrams.

The main stages of self-study of educational issues:

1. Initial acquaintance with the material of the topic under study according to the text of the textbook.
2. Highlighting the main thing in the studied material, compiling the usual short notes.
3. Selection of reference signals for this text in the form of separate words, drawings.

4. Thinking over a schematic way of coding knowledge, using a different font, etc.
5. Drawing up a reference summary.

11. Methodological instructive regulations for students studying the discipline (module)

When mastering the discipline "Emergency care at the pre-hospital stage", independent work of students, lectures and laboratory classes are used. Independent work of students involves a deeper study of individual course topics defined by the program. At the lectures, the teacher examines the issues of the course program, compiled in accordance with the state educational standard. Due to the insufficient number of classroom hours, some topics cannot be covered in full, so the teacher, at his discretion, takes out some questions for independent work of students, recommending this or that literature. In addition, for better mastering of the material and systematization of knowledge on the discipline, it is necessary to constantly analyze lecture materials according to notes and textbooks. During the independent study of the lecture material, special attention should be paid to the questions that have arisen, incomprehensible terms, controversial points of view. All such points should be highlighted or written out separately for further discussion at the laboratory lesson. If necessary, contact the teacher for advice. A complete list of literature on the discipline is given in the working program of the course. Laboratory classes are designed to assimilate the material by curating thematic patients under the supervision of a teacher, working with medical documentation (medical history, list of appointments, spirograms, radiographs, tomograms, FBS results, etc.), participating in an instrumental examination of the patient, solving clinical and situational problems.

11.1. Methodological instructive regulations for preparing for seminar-type classes

The main goal of laboratory work is to consolidate theoretical knowledge and skills of the basics of clinical thinking, mastering skills in examining patients and making decisions about the appointment of necessary treatment, drawing up an algorithm for complex patient management. The content of laboratory work: analysis of nosological forms of diseases of internal organs, analysis of etiology, pathogenesis, clinic, diagnosis, treatment. In the course of completing tasks, students develop practical skills and skills of patient examinations, interpretation of laboratory and instrumental results of examinations, which form part of professional practical training, as well as research skills (observe, compare, analyze, establish dependencies, draw conclusions and generalizations, independently conduct research, formalize the results).; skills and abilities are being formed to implement rational individual systemic and local pharmacotherapy of patients with pathology of the maxillofacial region and oral cavity, taking into account concomitant somatic pathology.

Laboratory classes may be reproductive, partially exploratory and exploratory in nature.

Works of a reproductive nature are distinguished by the fact that when they are carried out, students use detailed instructions that specify: the purpose and tasks of the work, explanations (theoretical foundations), the order of work, control questions, educational and special literature.

Works that are partially exploratory in nature are distinguished by the fact that when they are carried out, students do not use detailed instructions, they are not given the procedure for performing the necessary actions, and require students to independently analyze, choose ways to perform work in instructional and reference literature, etc.

Research papers are characterized by the fact that students have to solve a new problem of a research nature for them, based on their existing theoretical knowledge.

Forms of organization of students in laboratory classes: frontal, group and individual.

In the frontal form of the organization of classes, all students perform the same work at the same time.

In the group form of organizing classes, the same work is performed by teams of 2 to

5 people.

With an individual form of organization of classes, each student performs an individual task.

Execution of a written assignment for the work performed (patient supervision, solution of a clinical situational problem) in accordance with the requirements. A written report on the laboratory work performed should contain the following information:

- the name of the work and information about the author of the report (course, first name, last name);
- identification of leading syndromes (clinical, laboratory, instrumental);
- making preliminary and clinical diagnoses;
- drawing up a plan for additional laboratory and instrumental examination;
- interpretation of the results of laboratory and instrumental research;
- preparation of a treatment program: conservative (non-drug and medical), preventive and determination of indications for surgical treatment;
- list of used literature.

Grades for laboratory work are taken into account as an indicator of the student's current academic performance.

11.2. Methodological instructive regulations for preparing for an examination

Not provided.

11.3. Methodological instructive regulations for preparing for a test

The test aims to evaluate the student's work for a certain course: the theoretical knowledge gained, their strength, the development of logical and creative thinking, the acquisition of independent work skills, the ability to analyze and synthesize the knowledge gained and apply it in practice.

Preparation of students for passing the test includes:

- viewing the program of the training course;
- identification of the sources necessary for the preparation (textbooks, additional literature, etc.) and their study;
- use of lecture notes, materials of laboratory classes;
- consulting with a teacher.

Preparation for the test begins with the first lesson in the discipline, at which students receive a general teacher's attitude and a list of basic requirements for current and final reporting. At the same time, it is important to systematically master the material from the very beginning, guided, first of all, by the list of questions for the test, to take notes of sources important for solving educational tasks. During the semester, replenishment, systematization and adjustment of developments take place, the development of new and consolidation of already studied material

11.4. Methodological instructive regulations for performing computational and graphical

Not provided.

11.5. Methodological instructive regulations for performing a control work

Not provided.

11.6. Methodological instructive regulations for performing a course work (project)

Not provided.

List of additions and changes

The name and details (if any) of the document attached to the Working Program of the discipline (module) containing the text of updates	Department's decision		Full name of department head:
	Date	Protocol №	