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) «Медицинская реабилитация с общей физиотерапией / Medical Rehabilitation with General Physiotherapy»

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 – 4
Term – 7, 8
Total academic hours/credit points – 180/5
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:
docent, dph, N.D. Ucterova
professor, dsm E.A. Guryanova

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", physiotherapeutic methods of treatment, the study of the mechanisms of physiological and therapeutic action, therapeutic effects, indications, contraindications of physical factors, as well as the theory and practice of the application of physical methods of prevention, treatment and rehabilitation of dental patients.

The objectives of the discipline - to teach to consider the fundamental sections of general physiotherapy, without which it is impossible to prescribe and conduct physiotherapy procedures;

to teach to form an idea of physical methods of treatment as effective means of treatment and prevention of diseases, hardening of the body, about the main indications and contraindications to their use;

acquisition by students of practical skills in conducting physiotherapy procedures;

to teach to form skills and communication skills with patients directed to physiotherapeutic treatment, to interpret the available objective data, to examine the areas of the intended impact of physiotherapeutic treatment, to study the patient's medical history and their use in choosing a physiotherapeutic treatment method, to possess the skills of clinical evaluation of the effectiveness of the use of physical factors in the complex treatment and rehabilitation of dental patients.

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

The discipline «Медицинская реабилитация с общей физиотерапией / Medical Rehabilitation with General Physiotherapy» относится к обязательной части учебного плана 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):

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

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))

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:

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)
ОПК-12 Способен реализовывать и осуществлять контроль эффективности медицинской реабилитации стоматологического пациента / He/she is able to implement and monitor the effectiveness of a dental patient's medical rehabilitation	ОПК-12.1 Владеет алгоритмом медицинской реабилитации стоматологического пациента / He/she possesses the algorithm of a dental patient's medical rehabilitation	- Goals, objectives, stages of medical rehabilitation in dentistry - Indications and contraindications for medical rehabilitation; - Indications and contraindications for the use of physical factors for therapeutic, rehabilitation and preventive purposes; Determine violations of structures, functions according to the ICF - Work in a multidisciplinary rehabilitation team; - Conduct medical supervision in the process of medical rehabilitation; - Draw up individual programs of medical rehabilitation (habilitation); - Carry out medical selection of patients for sanatorium treatment: - legal documentation that determines the procedure for providing medical care, the rules for the appointment of technical means of rehabilitation, - skills in compiling an individual rehabilitation (habilitation) program for a disabled person -skills for evaluating life limitations caused by a persistent disorder of body functions; - skills for assessing rehabilitation potential based on the analysis of its clinical, functional, social, professional, labor and psychological data;
ОПК-12 Способен реализовывать и осуществлять контроль эффективности медицинской реабилитации стоматологического пациента / He/she is able to implement and monitor the effectiveness of a dental patient's medical	ОПК-12.2 Способен формировать программу мероприятий медицинской реабилитации стоматологического пациента / He/she is able to form a program of measures for medical rehabilitation of a dental patient	-indications and contraindications for various types of rehabilitation measures - patient routing, depending on the definition of his condition according to the Rehabilitation Routing Scale - types of high-tech medical care in medical rehabilitation define a rehabilitation diagnosis in terms of the International

rehabilitation		Classification of Functioning determine the patient's rehabilitation potential and the need for technical means of rehabilitation choose the right rehabilitation equipment determine the stage, duration and frequency of rehabilitation determine the types of rehabilitation measures the skills of selecting technical means of rehabilitation by size, age, living conditions, etc. skills in prescribing TSR in a rehabilitation program skills in drawing up an individual rehabilitation program for dental diseases
ОПК-12 Способен реализовывать и осуществлять контроль эффективности медицинской реабилитации стоматологического пациента / He/she is able to implement and monitor the effectiveness of a dental patient’s medical rehabilitation	ОПК-12.3 Способен реализовывать программу медицинской реабилитации стоматологического пациента и оценивать ее эффективность / He/she is able to implement a program of a dental patient’s medical rehabilitation and assess its effectiveness	- patient routing for referral to the stages of medical rehabilitation - indications for referral of a patient for medical and social examination - criteria for evaluating the effectiveness of rehabilitation measures - the possibilities of information and analytical systems for the preparation of documentation for obtaining the IPR - Determine the severity of the limitation or loss of function of an organ or system due to a disease, including occupational injury, using scales and functional tests and generally accepted laboratory and clinical studies - identify barriers and facilitators in accordance with the International Classification of Functioning - identify personal factors and contextual factors - develop a program of physical rehabilitation of the patient; - define short-term and long-term rehabilitation goals. skills in determining the value of the determinant (realization and capacity) in a patient

		skills to determine the functional independence of the patient the skills of conducting functional tests to determine the effectiveness of the rehabilitation skills to control the implementation of the medical rehabilitation program
ПК-3 Способен разработать, реализовать и контролировать эффективность индивидуальных реабилитационных программ / He/she is able to develop, implement and monitor the effectiveness of individual rehabilitation programs	ПК-3.1 Способен разработать индивидуальную реабилитационную программу / He/she is able to develop an individual rehabilitation program	- Principles of action and mechanism of action of natural and preformed physical factors, physiotherapy exercises, acupuncture on the function of teeth, maxillofacial region of a person; - General principles of pharmacodynamics and pharmacokinetics of essential drugs; - Indications and contraindications for the use of natural and preformed physical factors, environmental factors, various rehabilitation technologies for dental diseases - Determine indications and contraindications for the use of various methods of rehabilitation and spa treatment; - Involve specialists of a multidisciplinary rehabilitation team for the most complete restoration of the disturbed functions of the body of a sick person; - Carry out quality control and effectiveness of rehabilitation measures and maintain reporting and reporting documentation. - skills in drawing up a plan of rehabilitation measures, sanatorium treatment in the rehabilitation of dental patients
ПК-3 Способен разработать, реализовать и контролировать эффективность индивидуальных реабилитационных программ / He/she is able to develop, implement and monitor the effectiveness of	ПК-3.2 Способен реализовать и контролировать эффективность разработанной индивидуальной реабилитационной программы / He/she is able to implement and	contraindications to the use of physiotherapeutic procedures, balneo- and pelotherapy, acupuncture, physiotherapy exercises, psychotherapy signs of lack of motivation in the patient stop signs to stop rehabilitation activities

individual rehabilitation programs	monitor the effectiveness of the developed individual rehabilitation program	carry out rehabilitation measures in accordance with clinical recommendations (treatment protocols) to verticalize the patient correct patient positioning carry out prevention of PIT syndrome and other complications at the first stage of rehabilitation in the departments of maxillofacial surgery first aid skills in case of deterioration of the patient's condition and the occurrence of emergency conditions electrical first aid skills first aid skills for complications after acupuncture first aid skills for sports injuries

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
Theoretical bases of application and mechanisms of action of physical factors. Electric light treatment.	Theoretical foundations of physiotherapy. Physiotherapy in the treatment and rehabilitation of patients. Physiological mechanisms of action of physical factors	ОПК-12, ПК-3	ОПК-12.1, ОПК -12.2, ОПК-12.3, ПК-3.1, ПК-3.2

Theoretical bases of application and mechanisms of action of physical factors. Electric light treatment.	Electroplating and medicinal electrophoresis	ОПК-12, ПК-3	ОПК-12.1, ОПК-12.2, ОПК-12.3, ПК-3.1, ПК-3.2
	Pulse currents of low and medium frequency		
	Alternating current of high frequency. Electric and electro-magnetic fields.		
	Electromagnetic radiation		
	Phototherapy. Vibrotherapy. Ultrasound therapy		
Balneology. Resort factors	The use of heat for therapeutic purposes. Cryotherapy.	ОПК-12	ОПК-12.2
	Balneotherapy		
	Balneology		
Individual contact work	Individual contact work (credit)		
General basics of medical rehabilitation	Fundamentals of medical rehabilitation. Regulatory and legal support of medical rehabilitation Basic principles, stages of medical rehabilitation. Indications for referral of patients to various stages of medical rehabilitation.		
	Methods of medical control in the system of medical rehabilitation. Scales in medical rehabilitation. Evaluation of the effectiveness of medical organizations in medical rehabilitation.		
General basics of	Rehabilitation		

medical rehabilitation	technologies.		
Private issues of medical rehabilitation	Medical rehabilitation of dental patients of therapeutic profile	ОПК-12	ОПК-12.2
	Medical rehabilitation of dental patients with surgical profile		
	Medical rehabilitation of orthopedic dental patients		
	Medical rehabilitation of children after dental diseases		

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)		
		7	8	total
1. Face-to-face work:		48	32,3	80,3
In-class learning in total, including:		48	32	80
Лекционные занятия (Лек)		16		16
Лабораторные занятия (Лаб)		32	32	64
Индивидуальная контактная работа (ИКР)			0,3	0,3
2. Independent work of the student:		60	12,7	72,7
3. Intermediate certification (exam) (экзамен)			Эк	
Total:	academic hours	108	72	180
	credit units	3	2	5

№ 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		
	Theoretical bases of application and mechanisms of action of physical factors. Electric light treatment.						

1	Theoretical foundations of physiotherapy. Physiotherapy in the treatment and rehabilitation of patients. Physiological mechanisms of action of physical factors	2		4		8	14
2	Electroplating and medicinal electrophoresis	2		4		8	14
3	Pulse currents of low and medium frequency	2		4		8	14
4	Alternating current of high frequency. Electric and electro-magnetic fields.	2		4		8	14
5	Electromagnetic radiation	2		4		8	14
6	Phototherapy. Vibrotherapy. Ultrasound therapy	2		4		8	14
	Balneology. Resort factors						
7	The use of heat for therapeutic purposes. Cryotherapy.			4		6	10
8	Balneotherapy	4		2		2	8
9	Balneology			2		4	6
	Individual contact work						
10	Individual contact work (credit)				0,3		0,3
	General basics of medical rehabilitation						
11	Fundamentals of medical rehabilitation. Regulatory and legal support of medical rehabilitation Basic principles, stages of medical rehabilitation. Indications for referral of patients to various stages of medical rehabilitation.			6			6
12	Methods of medical control in the system of medical rehabilitation. Scales in medical rehabilitation. Evaluation of the effectiveness of medical organizations in medical rehabilitation.			6			6
13	Rehabilitation technologies.			4			4
	Private issues of medical rehabilitation						

14	Medical rehabilitation of dental patients of therapeutic profile			4		2	6
15	Medical rehabilitation of dental patients with surgical profile			4		4	8
16	Medical rehabilitation of orthopedic dental patients			4		6	10
17	Medical rehabilitation of children after dental diseases			4		0,7	4,7
Total academic hours		16		64	0,3	72,7	180

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

Раздел 1. Theoretical bases of application and mechanisms of action of physical factors. Electric light treatment.

Тема 1. Theoretical foundations of physiotherapy. Physiotherapy in the treatment and rehabilitation of patients. Physiological mechanisms of action of physical factors

Лекционное занятие. Basics of rehabilitation. Regulatory and legal support of medical rehabilitation Basic principles, stages of medical rehabilitation. Indications for referral of patients to various stages of medical rehabilitation. International classification of functioning.

Лабораторное занятие. Theoretical foundations of physiotherapy. Physiotherapy in the treatment and rehabilitation of patients. Physiological mechanisms of action of physical factors. Indications and contraindications to the use of physical factors.

Тема 2. Electroplating and medicinal electrophoresis

Лекционное занятие. Medical supervision in medical rehabilitation.

Sanitary and hygienic requirements for rehabilitation facilities. Occupational health and safety regulations. Issues of equipment placement in accordance with the industry standard "SSBT. Departments, physiotherapy rooms, general safety requirements". Evaluation of the effectiveness of medical organizations in medical rehabilitation.

Лабораторное занятие. Electroplating and medicinal electrophoresis. Physiological and therapeutic effect of direct current on the human body. Safety precautions during the release of electroplating and medicinal electrophoresis procedures.

Тема 3. Pulse currents of low and medium frequency

Лекционное занятие. Methods of medical control in the system of medical rehabilitation. Scales in medical rehabilitation. Rehabilitation routing scale. Evaluation of the effectiveness of medical organizations in medical rehabilitation.

Лабораторное занятие. Pulse currents in physiotherapy. Physiological and therapeutic effect of pulse currents on the human body. Therapeutic effects, amplipulstherapy, diadynamic currents, fluctuation, electrical stimulation, transcranial electroanalgesia.

Тема 4. Alternating current of high frequency.
Electric and electro-magnetic fields.

Лекционное занятие. Methods of medical control in the system of medical rehabilitation. Scales in medical rehabilitation. Rehabilitation routing scale. Evaluation of

the effectiveness of medical organizations in medical rehabilitation.

Лабораторное занятие. High frequency alternating current. Electric and electromagnetic fields. The mechanism of action of ultrahigh frequency therapy on the human body, indications and contraindications to its use. Therapeutic effects of magnetic therapy.

Тема 5. Electromagnetic radiation

Лекционное занятие. Electromagnetic radiation. Microwave therapy. Therapeutic effects of decimeter-wave, centimeter-wave, millimeter-wave therapy.

Лабораторное занятие. Electromagnetic radiation. Microwave therapy. Therapeutic effects of decimeter-wave, centimeter-wave, millimeter-wave therapy.

Тема 6. Phototherapy. Vibrotherapy. Ultrasound therapy

Лекционное занятие. Phototherapy. Physiological and therapeutic effect of electromagnetic oscillations of the optical range. Ultraviolet, infrared, visible radiation. Laser therapy. Vibrotherapy. Ultrasound therapy.

Лабораторное занятие. Phototherapy. Physiological and therapeutic effect of electromagnetic oscillations of the optical range. Ultraviolet, infrared, visible radiation. Laser therapy. Vibrotherapy. Ultrasound therapy.

Раздел 2. Balneology. Resort factors

Тема 7. The use of heat for therapeutic purposes. Cryotherapy.

Лабораторное занятие. The use of heat and cryotherapy for therapeutic purposes. Therapeutic effects, indications and contraindications to them.

Тема 8. Balneotherapy

Лекционное занятие. Balneotherapy. Balneology. SPA. Classification of mineral waters. Mineral waters for external use and for ingestion. Therapeutic effects, indications and contraindications for taking mineral waters.

Лабораторное занятие. Balneotherapy. Classification of mineral waters. Mineral waters for external use and for ingestion. Therapeutic effects, indications and contraindications for taking mineral waters.

Тема 9. Balneology

Лабораторное занятие. Questions of balneology. Therapeutic resort factors. Climatotherapy. Therapeutic factors of the climate of mountains, forests, deserts, steppes and marine climate.

Раздел 4. General basics of medical rehabilitation

Тема 11. Fundamentals of medical rehabilitation. Regulatory and legal support of medical rehabilitation Basic principles, stages of medical rehabilitation. Indications for referral of patients to various stages of medical rehabilitation.

Лабораторное занятие. Basics of rehabilitation. Regulatory and legal support of medical rehabilitation Basic principles, stages of medical rehabilitation. Indications for

referral of patients to various stages of medical rehabilitation. International classification of functioning.

Лабораторное занятие. The procedure for providing medical rehabilitation assistance.

Types of medical organizations that provide medical rehabilitation assistance. Stages of medical rehabilitation. Indications for referral of patients to various (inpatient, outpatient) stages of medical rehabilitation. Sanitary and hygienic requirements for rehabilitation facilities. Occupational health and safety regulations. First aid in case of electrical injury. Protective equipment.

Medical supervision in medical rehabilitation.

Sanitary and hygienic requirements for rehabilitation facilities. Occupational health and safety regulations. Issues of equipment placement in accordance with the industry standard "SSBT. Departments, physiotherapy rooms, general safety requirements". Evaluation of the effectiveness of medical organizations in medical rehabilitation.

Тема 12. Methods of medical control in the system of medical rehabilitation. Scales in medical rehabilitation. Evaluation of the effectiveness of medical organizations in medical rehabilitation.

Лабораторное занятие. Methods of medical control in the system of medical rehabilitation. Scales in medical rehabilitation. Rehabilitation routing scale. Evaluation of the effectiveness of medical organizations in medical rehabilitation.

Лабораторное занятие. The use of scales in medical rehabilitation. Scales that determine functional independence, cognitive impairment, mobility, etc. Functional tests. Low-load tests.

Тема 13. Rehabilitation technologies.

Лабораторное занятие. Physical therapy, massage, mechanotherapy. International classification of functioning. The basic concepts of international classifications for assessing the functioning of the body: criteria for life and health limitations in the practice of medical rehabilitation. Possibilities and features of use in combination with ICD 10.

Reflexology. Indications and contraindications for use

Раздел 5. Private issues of medical rehabilitation

Тема 14. Medical rehabilitation of dental patients of therapeutic profile

Лабораторное занятие. Medical rehabilitation of dental patients of therapeutic profile

Тема 15. Medical rehabilitation of dental patients with surgical profile

Лабораторное занятие. Medical rehabilitation of dental patients of therapeutic profile

Тема 16. Medical rehabilitation of orthopedic dental patients

Лабораторное занятие. Medical rehabilitation of orthopedic dental patients

Тема 17. Medical rehabilitation of children after dental diseases

Лабораторное занятие. Medical rehabilitation of children after dental diseases

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:

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

not founded

6.2. Sample list of questions for the examination

1. The concept of rehabilitation. Rehabilitation goals. Aspects of rehabilitation (PK-14).
2. The principles of organizing rehabilitation assistance in Russia and in world practice (OPK -11).
3. The socio-economic aspect of rehabilitation, forms and methods. Social support: the procedure for obtaining TSR (technical means of rehabilitation), entering recommendations in the IPR (individual rehabilitation plan) (OPC -11).
4. The stationary stage of rehabilitation: goals, objectives, capabilities of TSR (OPK -11).
5. The outpatient stage of rehabilitation: forms and places of rehabilitation, goals, objectives, TCR (OPC -11)
6. The need, place of implementation, goals and objectives of the sanatorium stage of recovery treatment, the use of TSR (OPK -11).
7. The role of physical training in the restoration, preservation and increase of fi-fi and professional performance (PK-14).
8. Therapeutic physical culture is the main means of physical rehabilitation. The essence of the method, biological basis of exercise therapy (PK-14).
9. Dosed physical training is the basis of exercise therapy. General rules of dosage physical training (PK-14).
10. LFK funds. Forms of use of exercise therapy (PK-14).
11. Principles of dosing physical activity and periods in the exercise therapy. Classics of motor modes (PK-14).
12. Classification of respiratory gymnastics. The influence of physical exercises on breathing. Static, dynamic and special breathing exercises (PK-14).
13. Medical and current control methods over the level of physical activity (PK-8, PC-14).
14. LFK as a method of physical rehabilitation in diseases of the cardiovascular system: coronary heart disease, myocardial infarction, hypertension (PC-14).
15. exercise therapy as a method of physical rehabilitation for diseases of the respiratory system and in light surgery (PC-14).
16. exercise therapy as a method of physical rehabilitation in diseases of the digestive system in a complex of conservative and in the system of surgical treatment of patients (PC-14).
17. LFK as a method of physical rehabilitation for metabolic diseases (PK-14).
18. LFK as a method of physical rehabilitation in diseases of the musculoskeletal system and the central nervous system (PK-14).
19. The role of physiotherapy in the complex of rehabilitation measures in medical

institutions of various profiles (PK-14).

20. The main methods of physiotherapeutic treatment (PK-14).

21. Physiotherapeutic methods related to heat -heating. Physical ha-collapses of paraffin, ozokerite, water and mud, allowing them to be used for heat-lolestream (PK-14).

22. Types (methods) of hydropower procedures (PK-14).

23. Galvanization. Electrophoresis. The current factor, therapeutic effects, indications and contraindications for use (PK-14).

24. Therapeutic massage. Indications and contraindications for use (PK-14).

25. The current factor, therapeutic effects, indications and contraindications for the use of ultrasonic therapy (PK-14).

26. The current factor, therapeutic effects, indications and contraindications to the use of constant, impulse, low-frequency and high-frequency magnotherapy (PC-14)

27. Electroson, diadime therapy, electrical stimulation. The current factor, therapeutic effects, indications and contraindications for use (PK-14).

28. The current factor, therapeutic effects, indications and contraindications to the method of UHF therapy and microwave therapy (PC-14).

29. Infrared and ultraviolet radiation. Acting factors, tera-seenic effects, indications and contraindications for use (PK-14).

30. Laser radiation: laser therapy, photodynamic therapy. Indications and contraindications for use (PK-14).

31. Which area is called a resort. Types and terms of spa treatment (PK-14).

32. The main types of sanatorium-resort institutions. Classification of resorts according to natural therapeutic factors. The principles of selection and directions of patients for sanitary and resort treatment (PK-14).

33. Medical characteristics of the climate of the main natural zones. The main climatic resorts.

34. Basic processes of climatotherapy. Aerotherapy. Cherotherapy. Heliotherapy. Talassotherapy (PK-14).

35. The chemical composition, physical properties of mineral waters. Classification of mineral waters. Indications for the treatment of drinking mineral waters (PK-14).

36. Classification of resorts. Balneological reaction and contraindications for therapeutic baths (PK-14).

37. Types of rehabilitation, stages of rehabilitation of patients after myocardial infarction. Classification of the severity of the condition of patients is the basis for choosing a pro-gram of rehabilitation measures (PK-8, PK-14).

38. Rehabilitation of patients with myocardial infarction, rehabilitation stages (PK-8, PK-14).

39. General principles of rehabilitation of patients with pathology of the cardiovascular system (PC-8, PC-14).

40. Phased rehabilitation of patients after adopted ONMK (PK-8, PK-14).

41. General principles of rehabilitation of patients with pathology of the respiratory system. Types of rehabilitation of patients with chronic obstructive lung disease (PK-8, PK-14).

42. General principles of rehabilitation of patients with pathology of the respiratory system. Types of rehabilitation

6.3. Suggested themes of term papers (projects)

not founded

6.4. Suggested themes of term projects

not founded

6.5. Suggested topics of calculation and graphic works

not founded

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 Voting December 12, 1993): (taking into account the amendments, introduced by the Law of the Russian Federation on amendments to the Constitution of the Russian Federation of July 21, 2014 No. 11-FKZ). - Text: Electronic // Consultant Plus: Reliable legal support: officer. website. - URL: http://www.consultant.ru/document/cons_doc_law_28399

2. On education in the Russian Federation: Feder. Law of Dec 29 2012 No. 273-FZ: with amm. and add. dated July 26, 2019-Text: Electronic // Guarantor: Inform.-legal support. - URL: http://mobileonline.garant.ru/#/document/70291362/paragraph/1/highlight/ Grandma:

3. The order of the Ministry of Health of the Russian Federation dated November 30, 2017 No. 965n "On approval of the Procedure for the organization and provision of medical care using telemedicine technologies" (registered by the Ministry of Justice of the Russian Federation on January 9, 2018, registration No. 49577) .url: http: //www.consultant.ru/document/cons_doc_law_28399/. - Text: electronic.

3. The state program of the Russian Federation “Development of Health”, approved by Decree of the Government of the Russian Federation No. 294 dated 04/15/2014 URL: http://www.consultant.ru/document/cons_doc_law_28399/. - Text: electronic.

4. On the basics of protecting the health of citizens in the Russian Federation: Federal Law of 11/21/2011 No. 323 - Federal Law: [adopted by the State Duma on November 1, 2011: approved by the Federation Council on November 9, 2011]: [Editorial of November 21, 2011]. - URL: http://www.consultant.ru/document/cons_doc_law_121895/. - Text: electronic

5. On approval of the Regulation on the organization of the provision of primary health care to children: Order of the Ministry of Health of the Russian Federation of March 7, 2018 N 92n (registered in the Ministry of Justice of the Russian Federation on April 17, 2018 registration No. 50801).

- url^ h ttps: //www.garant.ru/products/ipo/prime/doc/71825984/. - Text: electronic.

6. On approval of the lists of medical indications and contraindications for spa treatment: Order of the Ministry of Health of the Russian Federation of June 7, 2018 No. 321n (registered in the Ministry of Justice of Russia 07/02/2018 N 51503). - Date of appeal: 08/29/2019). - Text: electronic.

7. Minorization of healthcare of the Russian Federation. Order of December 29, 2012 N 1705n "On the procedure for organizing medical rehabilitation" /. - Text: electronic

8. On amendments to the procedure for the provision of palliative medical care to children, approved by order of the Ministry of Health of the Russian Federation of April 14, 2015 N 193n: Order of the Ministry of Health of the Russian Federation of June 28, 2018 N 401n (registered with the Ministry of Justice of the Russian Federation on August 31, 2018 Registration No. 52040) - URL: https://www.garant.ru/products/ipo/prime/doc/71935752/. - Text: electronic.

9. In compulsory medical insurance in the Russian Federation: Federal Law of November 29, 2010 N 326-ФЗ: [adopted by the State Duma on November 19, 2010: approved by the Federation Council on November 24, 2010]: [Edition of November 29, 2010]. - URL: http://www.consultant.ru/document/cons_doc_law_107289/. - Text: electronic.

10. The order of the Ministry of Health of the Russian Federation dated November

12, 2012 No. 901n "On approval of the procedure for the provision of medical care to the population on the profile" Traumatology and orthopedics "(registered by the Ministry of Justice of the Russian Federation on December 25, 2012, registration No. 26374), with amendments, with amendments, with amendments, with amendments. introduced by order of the Ministry of Health of the Russian Federation of February 21, 2020 No. 114n (registered by the Ministry of Justice of the Russian Federation on July 28, 2020, registration No. 59083) .URL: http://www.consultant.ru/document/cons_doc_law_107289/ Text: Text: Text: Text: Text: Text: Text: Text electronic

11. Minorization of healthcare of the Russian Federation. Order of July 31, 2020 N 788-N on approval of the procedure for organizing medical rehabilitation of adults .- URL: http://www.consultant.ru/document/cons_doc_law_107289/. Text: Electronic

7.2. Recommended basic educational and methodological literature

№ item	Name
1	

7.3. Recommended supplementary educational and methodological literature

№ item	Name
1	

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

№ item	Name	Link to the resource
1	Общая физиотерапия	http://www.studentlibrary.ru/book/ISBN9785970431672.html
2	Лечебная физическая культура и массаж	http://www.studentlibrary.ru/book/ISBN9785970426456.html
3	Общая физиотерапия	http://www.stud
4	Общая физиотерапия	http://www.stude

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	ИКР	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	Лаб	Учебная аудитория для занятий семинарского типа, текущего контроля и промежуточной аттестации. Оборудование: психрометры, газоанализатор, барометр, весы аналитические, оверхет, термометр, столы лабораторные, мультимедийное оборудование (проектор, экран, ПК или ноутбук), учебная мебель
3		Учебная аудитория для занятий семинарского типа, текущего контроля и промежуточной аттестации. Оборудование: учебная доска, учебная мебель, мультимедийное оборудование (проектор, экран, компьютер), монокулярные микроскопы, микроскоп МИКМЕД-5

4	Экзамен	Центр аккредитации и симуляционного обучения Оборудование: набор из двух фантомов: фантом катетеризации пузыря у мужчин и женщин. Фантом таза мужчины многофункциональный. Видеотренажер лапароскопический с набором для отработки навыков. Муляж ткани для прошивания красный. Муляж толстой кишки двуслойный. Набор муляжей тканей кожи (10 шт в уп.). Тренажер для отработки базовых хирургических навыков с аксессуарами. Фантом для отработки десмургии. Фантом для отработки процедуры катетеризации центральных вен. Фантом руки и ноги для отработки хирургического шва. Муляж ткани для отработки подкожного шва. Манекен для отработки навыков сердечно-легочной реанимации. Теле-ментор, высокотехнологичный передвижной аппаратно-программный комплекс для симуляционного обучения в медицине. Фантом для внутримышечных инъекций. Фантом руки для отработки внутривенных, внутримышечных и подкожных инъекций. Фантом руки для подкожных инъекций. ВиртуШОК, торс для СЛР, расширенная комплектация с ЭКГ и АНД. Торс для отработки навыков проведения СЛР и вентиляции, Кевин. Столы, стулья, кушетки, расходный материал (шприцы, симуляторы растворов, средства дезинфекции), ноутбуки с переговорными устройствами, встроенные столы, пеленальные столы, медицинские шкафы, учебные пособия и т. д.

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 is to prepare a modern competent specialist and the formation of abilities and skills to continuous self -education and professional improvement.

The implementation of the goal involves solving the following tasks:

- high -quality development of theoretical material in the discipline studied, deepening and expanding theoretical knowledge with the aim of their use at the level of intersubject relationships;
- systematization and consolidation of theoretical knowledge and practical skills;
- the formation of skills in the search and use of regulatory, legal, reference and special literature, as well as other sources of information;
- the development of cognitive abilities and activity, creative initiative, independence, responsibility and organization;
- the formation of independence of thinking, abilities for self -development, self -education, self -improvement and self -realization;
- development of research skills;
- the formation of the ability to solve practical problems (in professional activity), using acquired knowledge, abilities and skills.

Independent work is determined by the specifics of the discipline and the methodology of its teaching, the time provided for in the curriculum, as well as the stage of the training at which discipline is studied. The main forms of organization of independent work of students are: auditorial independent work under the leadership and control of the teacher (at lectures, laboratory classes); extracurricular independent work under the guidance and control of the teacher (when conducting research work), extracurricular independent work without the non-tender participation of the teacher (preparation for audit classes, olympiads, conferences, the implementation of tests, work with electronic information resources, preparation for tests). Independent work of students is ensured by these methodological recommendations.

Independent work of students at the course "Medical Rehabilitation" is an unusual component of the training of a specialist in the field of medicine.

Extracurricular independent work-planned educational, educational and research, research work of students, performed outside the Auditor on the assignment and methodological guidance of the teacher, but without his direct participation. The purpose of the independent work of students is to study aspects (medical, physical, psychological, socio- economic) rehabilitation measures aimed at restoring a person as personally among patients who have undergone somatic disease, injury or surgical intervention using methods of rehabilitation measures and preparation, medical rehabilitation.

Independent work of students is aimed at solving the following problems:

- the formation of skills necessary in activity to conduct an independent assessment of the degree of severity of restriction or loss of the function of a particular body or system due to the disease;
- the use of theoretical knowledge on the basics of the therapeutic effect of physical

factors on various tissues, organs, systems of the body, their therapeutic effects, indications and contraindications to their application and development of the patient's complex rehabilitation program, the patient's training and his family methods of rehabilitation for the most complete restoration of certain functions of the patient's body, the formation of skills to control the effectiveness of the measures.

- consider the fundamental sections of rehabilitology, without which it is impossible to develop a program of rehabilitation measures and its optimal implementation;

get an idea of various methods of rehabilitation, indications and contraindications to the use of various rehabilitation methods.

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

When mastering the discipline "Medical Rehabilitation", independent work of students, lecture and laboratory classes is used. Independent work of students involves the deeper study of individual topics of the course determined by the program. At lectures, the teacher considers the issues of the course of the course compiled in accordance with the State Educational Standard. Due to the insufficient number of auditorial hours, some topics cannot be covered in full, so the teacher, at his discretion, takes some questions for independent work of students, recommending this or that literature. In addition, for better development of material and systematizing knowledge in discipline, it is necessary to constantly disassemble lecture materials on notes and textbooks. During the independent study of lecture material, special attention should be paid to the issues that arose, incomprehensible terms, and disputed points of view. All such moments should be highlighted or discharged separately for further discussion in the laboratory lesson. If necessary, contact the teacher for advice. A full list of literature in the discipline is given in the work program of the course. Laboratory classes are intended to assimilate the material by curating thematic patients under the control of the teacher, working with medical documentation (the history of the disease, a prescription sheet, spirograms, radiographs, tomograms, FBS results, etc.), participation in the patient's instrumental examination, a solution to clinical and a solution situational tasks.

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

The leading goal of laboratory work is the formation of skills necessary in the activities of a general practitioner for diagnosis, treatment of professional pathology. The content of laboratory work is: analysis of specific situations, analysis of etiology issues, pathogenesis, clinic, diagnosis, treatment. In the course of the execution of tasks, students form the skills necessary for the implementation of a set of measures aimed at preserving and strengthening health and including the formation of a healthy lifestyle, preventing the occurrence and (or) spread of professional diseases, their early diagnosis, identifying the causes and the conditions of their occurrence and development, as well as aimed at eliminating the harmful effects on human health of negative physicochemical factors in the workplace.

Laboratory classes can be reproductive, partially - search and search nature.

Work that are reproductive in nature differs in that when conducting them, students use detailed instructions that indicate: the goal and tasks of the work, explanations (theoretical foundations), the procedure for performing work, control issues, educational and special literature.

Work that are partially-search nature differs in that when conducting them, students do not use detailed instructions, they do not give the order to fill the necessary actions, and require students to independently carry out analysis, select the methods of performing work in the instructive and reference literature. and etc.

Work that are searching in nature is characterized by the fact that students should solve a new research problem for them, based on theoretical knowledge they have.

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

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

In a group form of organization of classes, the same work is carried out by brigades of 2 to 5 people.

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

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

- the name of the work and information about the author of the report (course, name, surname);
- highlighting leading syndromes (clinical, laboratory, instrumental);
- production of preliminary and clinical diagnoses;
- drawing up a plan of additional laboratory and instrumental examination;
- interpretation of the results of laboratory and instrumental research;
- compilation of a treatment program: conservative (non -drug and medical), preventive and determining indications for surgical treatment;
- Bibliography.

Assessments for laboratory work are taken into account as an indicator of the current academic performance

11.2. Methodological instructive regulations for preparing for an examination

The exam pursues the goal of evaluating the student's work for a certain course: the theoretical knowledge, their strength, the development of logical and creative thinking, the acquisition of independent work skills, the ability to analyze and synthesize the acquired knowledge and apply in practice.

Preparation of students for passing the exam includes:

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

Preparation for the exam begins with the first lesson in the discipline, in which students receive a general attitude of the teacher and a list of basic requirements for current and final reporting. At the same time, it is important from the very beginning to systematically master the material, guided, first of all, a list of issues for the exam, to summarize sources important for solving educational problems. During the semester, replenishment, systematization and adjustment of developments, the development of new ones and the consolidation of the already studied material occur

11.3. Methodological instructive regulations for preparing for a test

not founded

11.4. Methodological instructive regulations for performing computational and graphical

not founded

11.5. Methodological instructive regulations for performing a control work

not founded

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

not founded

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 №	