

Federal State Budgetary Educational Institution of Higher Education

"NORTH-OSSETIAN STATE MEDICAL ACADEMY"

Ministry of Health of the Russian Federation

ANNOTATION TO THE WORKING PROGRAM OF THE EDUCATIONAL DISCIPLINE

"Medical rehabilitation"

the main professional educational program of higher education - specialty program in
the specialty 31.05.03 **Dentistry**, approved 24.05.2023

1. The purpose of the discipline: the acquisition of knowledge in the field of medical rehabilitation, the formation of a certain amount of professional knowledge, skills, skills for their use in the practice of a physician - therapist.

2. Place of discipline in the structure of the educational program. The discipline "medical rehabilitation" refers to the main part of the program of the block of the Federal State Educational Standard of the specialty 31.05.03 **Dentistry**, approved by the Ministry of Education and Science of the Russian Federation No. 988 on August 12, 2020. The working program of the discipline was approved at a meeting of the Department of Psychiatry with Neurology, Neurosurgery and medical Rehabilitation on 19.05, 2023, Protocol No. 9

The working program of the discipline was approved by the Academic Council of the Federal State Budgetary Educational Institution of Higher Education SOGMA of the Ministry of Health of Russia dated may 24, 2023, protocol No. 8

3. Sections of the discipline and requirements for the results of its development. The process of studying the sections of the discipline is aimed at the formation and development of competencies: OC-3; OPC-9; OPC-12; PC-2; PC-3.

№ № p/p	Competency number / index	The content of the discipline (or its sections)	Development results		
			know	Be able to	own
1	2	3			

1.	YK - 1	He is able to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of actions	The main historical stages of the development of the system of rehabilitation measures of medical and social orientation	Analyze the features of the approach to the treatment and recovery of patients, depending on the general civilization level of society	The main dates, the names of historical figures who have left a special contribution to the development of restorative medicine and social assistance
2.	OPC - 12	Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient	Nomenclature of violations, disabilities and social failure (ICIDH)	Explain the features of the damaging effect of a disease or injury at the organ, organismic levels and the mechanism of the formation of social maladjustment.	Terms and definitions explaining the concepts of health, disease, disabilities, differences between the directions of rehabilitation programs
3.	OPC – 9	The main differences between the concepts of "treatment" and "rehabilitation", as applied to the human person, as a part of society.	Etiological, morpho-pathogenetic and clinical mechanisms underlying the emergence and development of any pathological process.	Taking into account the knowledge of the morphofunctional and social consequences of diseases, explain the features of the goals and objectives at each stage of the provision of rehabilitation assistance	Information about the features of the formation of universal or specific tissue and organismal reactions to a variety of damaging factors
4.	PC - 2	Prescribing, monitoring the effectiveness and safety of non-drug and drug treatment	Possibilities of using conservative and operative methods of influencing the etiological and pathogenetic	Using the example of 1-2 diseases or injuries, explain the direction and methods of treatment, and	The basic principles of selection, combination of various means of therapeutic and

			mechanisms of disease development	then rehabilitation measures, their goals and objectives.	rehabilitation measures, depending on the stage of the disease
5.	PC - 3	Development, implementation and monitoring of the effectiveness of individual rehabilitation programs	Basic patterns of interaction of biological tissues with various types of energy. The laws of absorption, transformation of energy, features of physical and chemical processes.	Explain possible changes in tissues when energy is supplied at the atomic, molecular, cellular, microcirculatory, reflex levels.	Algorithm for explaining the universal response of the body: tropho-stimulating, vasoactive, anti-inflammatory, analgesic.
6.	OPC – 4	Is able to carry out and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population)	Mechanisms of therapeutic and rehabilitative action of physical factors during hardening	Choose a method of activating the adaptive reserve with the help of hardening procedures	The main methods of tempering procedures
7.	PC - 14	Electrotherapy. Application of electromagnetic fields in medical and rehabilitation complexes. Low-frequency, pulsed, traveling magnetic fields, inductothermy, UHF, UHF, SMV.	Mechanisms of physicochemical changes occurring in tissues when pointing different types of electromagnetic fields, the depth of their penetration, the main target tissues	Determine indications for the use of various types of fields, depending on the etiological, pathogenetic and clinical characteristics of the disease, substantiate the preference for each type of exposure	Techniques for carrying out procedures on devices AVIMP, Undatherm, Volna, Chamomile.
8.	PC - 14	Phototherapy. Application of factors of light nature in medical and rehabilitation complexes. Infrared, ultraviolet radiation,	The mechanisms of photo-physical and photo-chemical changes occurring in tissues under irradiation with different	Determine indications for the use of various types of phototherapy, depending on the etiological,	Methods of carrying out procedures on devices Matrix, BOP-4, BOD-9, LIK-5M

		chromotherapy. Laser therapy.	wavelengths, the depth of their penetration, the main target tissues	pathogenetic and clinical features of the disease, substantiate the preference of each type of exposure	
9.	PC - 14	Factors of a mechanical nature. Massage. Ultrasonic, shock wave, vacuum, barotherapy. Reflexology basics.	Mechanisms of reflex, humoral physicochemical changes occurring in tissues when exposed to compressions and discharges of tissue media.	Determine indications for the preferred prescription of factors of a mechanical nature, depending on the etiological, pathogenetic and clinical characteristics of the disease	The main techniques of classical massage, methods of carrying out procedures on the device UZT-101F
10.	PC - 14	Factors of water and thermal nature. Air baths. Mud therapy. Cryo-and-hydrotherapy techniques. Baths. Aerosol therapy concept.	Mechanisms of reflex, humoral physicochemical changes occurring in tissues when exposed to temperature irritants of tissues.	Determine indications for the use of various types of thermo-hydro-and-pelloid therapy, depending on the etiological, pathogenetic and clinical features of the disease, substantiate the preference of each type of exposure	Methods of using cryopackages, psamotherapy, an algorithm for drawing up recommendations for the appointment of hydrotherapy
11.	PC - 14	Balneotherapy. Origin, classification of mineral waters. Treatment and rehabilitation techniques.	The principles of classification of mineral waters by gas, ionic and microelement composition, the mechanism of therapeutic and rehabilitation action, depending on the method of	Determine indications for the use of various types of mineral waters, depending on the etiological, pathogenetic and clinical characteristics of the disease,	Algorithm for prescribing drinking intake of mineral water depending on the etiological, pathogenetic and clinical characteristics of the disease

			balneotherapy.	substantiate the preference of each method	
12.	PC - 14	Therapeutic physical culture as an integral part of medical rehabilitation. Means and methods of exercise therapy.	Mechanisms of reflex, humoral physicochemical changes occurring in the tissues during the work of the striated muscles	Choose a technique for activating the patient's motor activity depending on the etiological, pathogenetic and clinical characteristics of the disease, substantiate the preference of each technique	The main methods of increasing the patient's motor activity at the hospital stage of treatment of therapeutic, surgical and traumatized patients in order to prevent complications
13.	PC - 14	Complex application of rehabilitation technologies on the example of 2-3 common nosologies. Modular lesson.	Mechanisms of mutual potentiation of the actions of rehabilitation techniques in their combined and complex application	Determine indications for the use of various means of medical rehabilitation, depending on the etiological, pathogenetic and clinical characteristics of the disease.	Algorithm for prescribing means and methods of medical rehabilitation for the most common diseases

4. The total workload of the discipline is 72 hours, 2 credit points

Developer

MD, prof. Department of Psychiatry with Neurology,
neurosurgery and medical rehabilitation

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