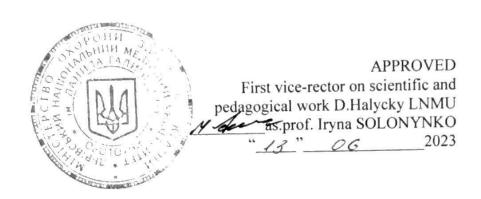
DANYLO HALYCKY LVIV NATIONAL MEDICAL UNIVERSITY

Department of Physical Training and Sports Medicine



PROGRAM OF EDUCATIONAL DISCIPLINE Physical Rehabilitation and Sports Medicine EC 20.6

Training of specialists of the second (master's) level of higher education in the field of knowledge 22 "Health care" speciality 221 "Dentistry"

Discussed and approved on meeting of department physical training and sports medicine

Protocol № 18
from "16" Tpa best 2023
Head of the department commission
as. prof. Olha KUNYNETS

Approved profiled methodical commision on hummanities

PROGRAM DEVELOPERS: Candidate of Medical Sciences, Associate Professor Leontieva Z.R., as.Marusiak S.V. under the general editorship of the Head of the Department of Physical Education and Sports Medicine, Candidate of Biological Sciences, associate professor Kunynets O.B.

REVIEWERS:

Dutka Roman Yaroslavovych, MD, Professor, Head of the Department of Propaedeutics of Internal Medicine, Danylo Halytskyi Lviv National Medical University

Bychkov Mykola Anatoliyovych d.m.s., professor of the department of therapy #1 and medical diagnostic FPE LNMU

INTRODUCTION

EC 20.6 "Physical rehabilitation and Sport medicine" created in accordance with the higher education standard of Ukraine (next- Standart) of the second master's level.

Knowledge section 22 "Health care"

Specialty **221 Dentistry**

Educational program **Master of dentistry**

1. General section

Work program of discipline "Physical rehabilitation and sports medicine" prepared in accordance with the "Regulations on the organization of educational process in Danylo Halycky Lviv National medical university, approved by the Academic Council of the University 02/18/2015 p., Record №1-BP and pursuant order in Danylo Halycky Lviv National medical university from 24.04.2015 № 1229-with "On introduction of the new curriculum undergraduate training in the specialty" Dentistry ".

The work program of the subject "Physical Rehabilitation and Sports Medicine" compiled for the specialty 7.110106 "Dentistry" field of study in 1101 "Medicine," according to educational qualification characteristics (EQC) and educational and professional programs (EPP) training educational qualification "Specialist "qualification" dentist "in higher medical educational institutions of Ukraine IV level of accreditation, approved by the MES of Ukraine from 16.04.03 Np 239 and from 28.07.03 Np 504, and according to the new curriculum MoH Ukraine that is designed on the principles of the European credit Transfer system (ECTS) and approved by the MOH of Ukraine of 07.12.2009 p. Np 929 of 08.07.2010 and. Np 541.

The program is prepared in accordance with the "Guidelines for the development of educational disciplines" (MOH of Ukraine of 12.10.2004., Note 492).

Physical rehabilitation and sports medicine as an academic discipline is based on studying by students of anatomy, physiology, pathophysiology, propaedeutics internal medicine, prosthetic dentistry; ensure consistency and correlation to the prevention of dental diseases, surgical dentistry, prosthetic dentistry, neurology, neurodentistry and other subjects of the curriculum, which involves integration of teaching with these disciplines and forming of abilities application of knowledge in physical rehabilitation and sports medicine in further education and in professional activity; teaches effective and timely use of physical rehabilitation in complex restorative dental treatment of patients; providing prevention prepathological or conditions that arise when irrational use of exercise; teaches personal recreational use and recreational modes of physical activity for the prevention of occupational diseases in dentists.

At present discipline "Physical rehabilitation and sports medicine" is becoming increasingly important for quality comprehensive training of future doctors, including dentists. Especially on issues relating to the use of physical training and physical rehabilitation for quick recovery, preserving the quality of life and the prevention or elimination of various complications in patients with dental. WHO experts say that now, more than 500 dental diseases and dental manifestations of systemic diseases clinic are often accompanied by severe physical and psychological suffering. Diseases mechanical damage, defects or anomalies of maxillofacial system often lead to a profound violation of vital functions of man,

such as external breathing, chewing, swallowing, speech and facial expressions, which adversely affects the functioning of the body as a whole, significantly inhibits the psychological state patients distorts the aesthetic appearance of the face. That is why, as soon as possible to prevent or eliminate these functional disorders are very important in the treatment of dental patients use means of physical rehabilitation.

The leading physical rehabilitation is therapeutic physical training (gymnastics). TE - the most active, purposeful and effective part of rehabilitation and preventive measures that has no equal in its unique natural and biological effects and therefore plays a major role among non-drug rehabilitation facilities. Underestimating or untimely and inadequate use of physical rehabilitation in treatment of dental patients often leads to a significant increase in terms of recovery of severe complications and even to permanent disability. Exercise and other physical factors must be additional means, and an integral part of a comprehensive treatment for all periods of rehabilitation. Very important is early, timely purpose of physical rehabilitation, especially in inflammatory processes in maxillofacial area, open and closed kinks jaw, traumatic injuries, including burns, soft tissue in maxillofacial area, contractures temporo- mandibular joints, neuritis or facial trigeminal nerve, the reconstructive operations on cleft lip and palate and other surgical interventions on soft tissues and bone of the facial skeleton, at abnormalities of occlusion, functional disorders and congenital anomalies of the teeth-jaw system in children. Of particular note is the appointment of special exercise during conservative treatment, as well as pre- and post- operative stages of intervention that selectively combined with restorative and breathing exercises, by means of quenching and preformed physical factors considering: clinical course of the disease (phase stage, the degree of functional disorders of the teeth-jaw system), comorbidity, as well as the characteristics of the individual (age, sex, functional abilities of basic life support systems, level of physical fitness and tolerance to physical exercise, state protection systems) at different stages of physical rehabilitation; Equally important is the use of physical training and rehabilitation for prevention or treatment of functional occupational diseases in dentists, especially violations of posture, scoliosis, osteochondrosis, varicose veins of the lower limbs, cardiovascular diseases, respiratory and other diseases. Thus, quality training dentist impossible without perfect mastery of the basics of physical rehabilitation and sports medicine.

The types of studies according to the curriculum are:

- a) practical training;
- b) independent work of students;
- c) lectures.

Practical exercises section of Sports Medicine conducted at the specialized educational rooms and laboratories specialized departments, in the offices of sports medicine universities or medical-sports clinic. Practical lessons in physical rehabilitation appropriate to clinical sites (in the offices of exercise and dental surgery) patients demonstrating relevant to the occupation, clinical analysis of their condition and the appointment of appropriate physical rehabilitation. The number of students in the study group should not exceed 5-10 people. While teaching physical rehabilitation and sports medicine allowed amendments to the curriculum within 15%, depending on the organizational and technical capabilities of specialized departments (courses), but in general should be made of the claims of discipline under the ultimate goals for the EQC and OPP and for specialty training curriculum. The acquisition is controlled themes at workshops. We recommend using these means of determining the level of training of students: tests, situational problems solving, conducting individual and frontal verbal questioning. Also teacher tested and evaluated performance of individual students. To test lecturers drug-control card (form № 061 / 0) cards and patient being treated in the office or department of exercise (form number 42-a), which are equal to the verification history, play 0.5 hours for each student.

Description of the curriculum on discipline "Physical rehabilitation and sports medicine" for students of Faculty of Dentistry"

Structure of the discipline	Numbe	r of credit l	nours, including	:	Academic year Semestr	Vie w cont rol
	Tot al hou rs	Lectur es	Auditorium Practical lesson s	IS W	3 year study	
Physical Rehabilitat ion and Sports Medicine	1 credit ECTS / 30 hours.	4	10	16	Third year of studis (VI semester)	Passed (test)

2. Purpose and objectives of the discipline

The main purpose of the discipline is to develop in students a holistic understanding of the possibilities, forms and methods of medical control during physical rehabilitation, understanding the importance of the timely use of physical rehabilitation in treatment and rehabilitation of dental patients, as well as the prevention of occupational diseases in dentists.

The ultimate goals of the discipline:

- 1. Identify the key concepts of physical rehabilitation and sports medicine as a clinical discipline.
- **2.** Be able to analyze and predict the impact of physical activity on the human body according to medical monitoring and assign movement modes and means of physical rehabilitation according to health, nature of functional disorders of the teeth-jaw system, functional abilities and body tolerance to physical activity.
- **3.** Select and apply methods of physical rehabilitation in treatment of dental patients for faster recovery, maintaining quality of life and prevent or eliminate the consequences of the pathological process.
- **4.** Be able to evaluate the effectiveness of physical rehabilitation.

Interdisciplinary connections: Physical rehabilitation and sports medicine as an educational discipline is based on the study by students of human anatomy and physiology, medical biology, biological chemistry, propaedeutics of internal medicine, therapy, a number of specialized dental disciplines, such as therapeutic, surgical and orthopedic dentistry, physical education and integrates with these disciplines; lays the foundations for normalization of physical activity in the complex treatment of diseases, prevention of their exacerbations and complications, restoration of the proper quality of life of a sick person, improvement of the standard of living and prevention of functional impairment in the process of vital activity; ensures the introduction of modern diagnostic methods into the system of medical monitoring of athletes, the development of modern methods of early diagnosis and treatment of overstrain; control over the functional state of athletes in the conditions of the chosen sports activity, which involves the integration of teaching with these disciplines and the formation of skills to apply knowledge of physical rehabilitation and sports medicine in the process of further education and in professional activities.

3. The program of the discipline

Program material in physical rehabilitation and sports medicine consists of theoretical and practical sections. The theoretical section is professionally applied nature and realized in the form of educational material explanations during practical classes (but not more than 15% of the total time occupation), self-study of literature, writing essays, participation in scientific student circle in physical rehabilitation and sports medicine. The practical section involves mastering practical skills and abilities.

"Sports Medicine"

Specific objectives:

- 1. To acquire basic tasks, forms and features medical monitoring during exercise.
- 2. Master the technique of complex medical examination, including the study and evaluation of physical development, functional abilities of the body and human health.
- 3. Master degree method of diagnosis of functional disorders of the teeth-jaw system in dental patients.
- 4. To analyze survey data and generate drug output.
- 5. Assess tolerance to physical activity and different degrees of fatigue during exercise.
- 6. To diagnose the early signs of fatigue, prepathological and pathological conditions arising from the inadequate exercise, know the means of prevention and thus provide first aid.
- 7. Prescribe FR means taking into account the individual characteristics of the organism, the clinical course of the disease and functional disorders of the dental and jaw system in patients with a dental profile.
- 8. To be able to choose means of PR and apply optimal methods of exercise therapy in purulent-inflammatory processes in the maxillofacial area, open and closed fractures of the jaws taking into account the method of fixation of fragments, in case of traumatic injuries, incl. burns, soft tissues of the maxillofacial region, contractures of temporomandibular joints, neuritis of the facial or trigeminal nerves, during reconstructive and restorative operations for injuries of soft and bony tissues of the facial skeleton, removal of neoplasms, non-union of the upper lip and palate, etc. ., with anomalies of bite development, functional disorders and congenital defects of the dento-maxillary system in children.
- 9. To master the means of FR taking into account the individual characteristics of the body in order to prevent occupational diseases of dentists.

3.1 The main tasks of studying the discipline:

In order to achieve the goal of physical education of students, a complex is envisaged solving the following problems:

- 1. Define the key concepts of physical rehabilitation and sports medicine as a clinical discipline.
- 2. To be able to analyze and predict the impact of physical exertion on the human body based on the data of medical control and to prescribe movement regimes and means of physical rehabilitation in accordance with the state of health, the nature of functional disorders of the dental and jaw system, the functional abilities of the body and tolerance to physical exertion.
- 3. Choose and apply methods of physical rehabilitation in the complex treatment of patients with a dental profile for faster recovery of health, preservation of quality of life and prevention or elimination of the consequences of the pathological process.
- 4. Be able to evaluate the effectiveness of physical rehabilitation. To acquire modern knowledge about:
- the main tasks, forms and features of medical control during physical exercises.

- methods of comprehensive medical examination, including research and assessment of physical development, functional abilities of the body and the state of human health.
- methods of diagnosing the degree of functional disorders of the maxillofacial system in patients with a dental profile.
- **4.** Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the Standard).

In accordance with the requirements of the standard, the discipline provides students with the acquisition of **competencies**:

- *integral*: The ability to solve complex problems, including those of a research and innovation nature in the field of medicine. Ability to continue learning with a high degree of autonomy.
 - General competences of the specialty (GC):
 - GC 1. Ability to abstract thinking, analysis and synthesis.
 - GC 2. Knowledge and understanding of the subject area and understanding of professional activity.
 - GC 3. Ability to apply knowledge in practical activities.
 - GC 4. Ability to communicate in the state language both orally and in writing.
 - GC 5. Ability to communicate in English.
 - GC 6. Skills in using information and communication technologies.
 - GC 9. The ability to identify, pose and solve problems.
 - GC 11. Ability to work in a team.
 - GC 12. Efforts to preserve the environment.
 - GC 13. The ability to act socially responsibly and consciously.
- GC 15. The ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies, use different types and forms motor activity for active recreation and leading a healthy lifestyle.
 - Professional competences of the specialty (PC):
 - PC 1. Ability to collect medical information about the patient and analyze clinical data.
 - PC 2. Ability to interpret the results of laboratory and instrumental research.
- PC 3. Ability to diagnose: determine preliminary, clinical, final, accompanying diagnosis, emergency conditions.
- PC 4. Ability to plan and carry out measures for the prevention of diseases of the organs and tissues of the oral cavity and maxillofacial area.
- PC 5. Ability to design the process of providing medical care: determine the approaches, plan, types and principles of treatment of diseases of the organs and tissues of the oral cavity and maxillofacial area.
- PC 6. The ability to determine a rational regimen of work, rest, and diet for patients in the treatment of diseases of the organs and tissues of the oral cavity and maxillofacial region.
- PC 7. The ability to determine the management tactics for patients with diseases of the organs and tissues of the oral cavity and maxillofacial region with concomitant somatic diseases.
 - PC 8. Ability to perform medical and dental manipulations.
- PC 9. The ability to treat the main diseases of the organs and tissues of the oral cavity and maxillofacial area.
 - PC 10. Ability to organize and carry out medical evacuation measures.
 - PC 11. Ability to determine tactics, methods and provision of emergency medical aid.
 - PC 12. Ability to organize and conduct a screening examination in dentistry.
- PC 13. The ability to assess the impact of the environment on the state of health of the population (individual, family, population).
 - PC 15. Processing of state, social and medical information.
- PC 16. Ability to organize and carry out rehabilitation measures and care for patients with diseases of the oral cavity and maxillofacial area .
 - PC 17. The ability to legally support one's own professional activity.
 - PC 18. The ability to provide pre-medical care according to the protocols of tactical medicine.

Detailing of competencies in accordance with the SRC descriptors in the form of the "Competence Matrix".

Matrix of competences

Nº	Competence (Classification of competences according to SRC)	Knowledge	Skills	Comunication s	Autonomy and responsibilit y
		I	ntegral competence		
The al	pility to solve complex		ling those of a research	h and innovation natu	re in the field of
			high degree of autono		
	,		eneral competences		
GC1.	Ability to abstract	Specialized	Specialized	Clear and	Managing work or
	thinking, analysis	conceptual	skills/problem-	unambiguous	learning processes
	and synthesis.	knowledge that	solving skills	presentation of	that are complex,
		includes	required for	one's own	unpredictable and
		current	conducting	knowledge,	require new
		scientific	research and/or	conclusions and	strategic
		achievements	implementing	arguments to	approaches
		in the field of	innovative	specialists and	
		professional	activities to	non-specialists, in	
		activity or field	develop new	particular to	
		of knowledge	knowledge and	people who are	
		and is the basis	procedures	studying	
		for original			
		thinking and			
		conducting			
		research			
GC 2.	Knowledge and	Specialized	Ability to solve	Use of foreign	Ability to continue
	understanding of	conceptual	problems in new	languages in	education with a
	the subject area	knowledge that	or unfamiliar	professional	high degree of
	and understanding	includes	environments in	activities	autonomy
	of professional	current	the presence of		
	activity.	scientific	incomplete or		
		achievements	limited		
		in the field of	information,		
		professional	taking into		
		activity or field	account aspects		
		of knowledge	of social and		
		and is the basis	ethical		
		for original	responsibility		
		thinking and			
		conducting			
		research			
GC 3.	Ability to apply	Specialized	Ability to	Clear and	Managing work or
	knowledge in	conceptual	integrate	unambiguous	learning processes

	practical	knowledge that	knowledge and	presentation of	that are complex,
	activities.	includes	solve complex	one's own	unpredictable and
	activities.	current	problems in	knowledge,	require new
		scientific	broad or	conclusions and	strategic
		achievements	multidisciplinar	arguments to	approaches
		in the field of	y contexts	specialists and	approactics
		professional	y contexts	non-specialists,	
		professionar		in	
		activity or field		particular to	
		of knowledge		people who are	
		and is the		studying	
		basis			
		for			
		original			
		thinking			
		and			
		conductin			
GG 4	4.1.111	g research	A 1 - 11		
GC 4.	Ability to	Critical	Ability to	Improving the	Responsibility
	communicat	thinking	integrate	command of	for contributing
	e in the	about	knowledge and	the Ukrainian	to professional
	national	problems	solve complex	language. Use	knowledge and
	language	within and	problems in	of foreign	practice and/or
	both orally	across	broad or	languages in	evaluating the
	and in	disciplines	multidisciplina	professional	performance of
	writing.		r y contexts	activities	teams and
G G	4.1.111	G 11 1	A 1 111	77 00	collectives
GC 5.	Ability to	Critical	Ability to solve	Use of foreign	Responsibility for
	communicate in	understanding	problems in new	languages in	contributing to
	English.	of problems in	or unfamiliar	professional	professional
		the field and at	environments in	activities	knowledge and
		the border of	the presence of		practice and/or
		the fields of	incomplete or		evaluating the
		knowledge	limited		results of team and
			information,		collective activities
			taking into		
			account aspects of		
			social and ethical		
			responsibilities		
GC 6.	Skills in using	Specialized	Ability to solve	Clear and	Managing work or
	information and	conceptual	problems in new	unambiguous	learning processes
	communication	knowledge that	or unfamiliar	presentation of	that are complex,
	technologies.	includes	environments in	one's own	unpredictable and
		current	the presence of	knowledge,	require new
		scientific	incomplete or	conclusions and	strategic
		achievements	limited	arguments to	approaches
		in the field of	information,	specialists and	**
		professional	taking into	non-specialists,	
] -	_	in	

		activity or	account aspects	particular to	
		field		_	
		of knowledge	of social and	people who are	
		and is the	ethical	studying	
		basis			
		for original	responsibilities		
		thinking and			
		conducting			
		research			
GC 9.	Ability to identify,	Critical	Ability to solve	Clear and	Responsibility for
	pose and solve	understanding	problems in new	unambiguous	contributing to
	problems.	of problems	or unfamiliar	presentation of	professional
		the field and	environments in	one's own	knowledge and
		the border of	the presence of	knowledge,	practice and/or
		the fields of	incomplete or	conclusions and	evaluating the
		knowledge	limited	arguments to	performance of
			information,	specialists and	teams and
			taking into	non-specialists,	collectives
			account aspects	particular to	
			of social and	people who are	
			ethical	studying	
			responsibilities	, ,	
GC11	Ability to work in	Specialized	Ability to solve	Clear and	Responsibility for

	a team.	conceptual knowledge that	problems in new or unfamiliar	unambiguous presentation of	contributing to professional
		includes current	environments in the presence of	one's own knowledge,	knowledge and practice and/or
		scientific achievements in the field of	incomplete or limited information,	conclusions and arguments to specialists and	evaluating the performance of teams and
		professional	taking into	non-specialists, in	collectives
		activity or field	account aspects	particular to	
		of knowledge and is the basis	of social and ethical	people who are studying	
		for original thinking and	responsibilities		
		conducting research			
GC	The desire to	Critical	Ability to solve	Clear and	Ability to continue
12	preserve the environment.	understanding of problems in	problems in new or unfamiliar	unambiguous presentation of	learning with a high degree of
		the field and	environments in	one's own	autonomy
		at the border of the fields of knowledge	the presence of incomplete or limited information, taking into	knowledge, conclusions and arguments to specialists and non-specialists,	
			account aspects of social and ethical responsibilities	in particular to people who are studying	
GC 13	The ability to act socially responsibly and	Critical understanding of problems in	Ability to integrate knowledge and	Clear and unambiguous presentation of	Responsibility for contributing to professional
	consciously.	the field and	solve complex	one's own	knowledge and
		the border of the fields of knowledge	problems in broad or multidisciplinar y contexts	knowledge, conclusions and arguments to specialists and non-specialists, in particular to people who are studying	practice and/or evaluating the performance of teams and collectives
GC	The ability to	Critical	Ability to solve	Clear and	Ability to continue
15	preserve an	understanding	problems in new	unambiguous	learning with a
	d multiply	of problems	or unfamiliar	communication	high degree of

cultural,	the field and	environments in	one's own	autonomy
scientific	at			
values	the border of	the presence of	knowledge,	
an				
d				
achievements	the fields of	incomplete or	conclusions and	
of				
society based	knowledge	limited	arguments to	
on				
understanding		information,	specialists and	
the				
history		taking into	non-specialists,	
an			in	
d				
patterns		account aspects	particular to	
_				
of				
development		of social and	persons studying	
_				
of				
the subject		ethical		
area,				
its place in		responsibilities		
the				
general system				
of				
knowledge				
abo				
ut				
nature and				
society				

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	and in the				
	development				
	of society,				
	technology				
	and				
	technologies,				
	to use				
	various types and				
	forms				
	of motor				
	activity for				
	active				
	recreation				
	and leading				
	and leading a healthy				
	•				
	lifestyle.	Drofossional care	notonoes of the speci-	olty (DC).	
PC1.	Ability to	Critical	npetences of the special	Clear and	Dognongihility
PCI.	Ability to		Ability to solve		Responsibility
	collect medical	understanding	problems in new	unambiguous	for
	information	of problems	or unfamiliar	presentation of	contributing
	about the	in the field	environments in	one's own	to
	patient and	and at the	the presence of	knowledge,	professional
	analyze	border of the	incomplete or	conclusions and	knowledge
	clinical data.	fields of	limited	arguments to	and practice
		knowledge	information,	specialists and	and/or
			taking into	non-specialists,	evaluating the
			account aspects	in particular to	performance
			of social and	people who are	of teams and
			ethical	studying	collectives
			responsibilities		
PC	The ability to	Critical	Ability to solve	Clear and	Managing
2.	interpret the	understanding	problems in new	unambiguous	work or
	results of	of problems	or unfamiliar	presentation of	learning
	laboratory	in the field	environments in	one's own	processes that
	and	and on the	the presence of	knowledge,	are complex,
	instrumental	border of the	incomplete or	conclusions and	unpredictable
	research	fields of	limited	arguments to	and require
		knowledge	information,	specialists and	new strategic
		1110 1110 11	taking into	non-specialists,	approaches
			account aspects	in particular to	upprouettes
			of social and	people who are	
			ethical	studying	
			responsibilities	Studying	
PC	Ability to	Critical	Ability to solve	Clear and	Responsibility
3.	diagnose:		problems in new	unambiguous	for
ا ع.	diagnose: determine	understanding of problems	or unfamiliar	presentation of	contributing
		in the field		one's own	
	preliminary,		environments in		to
	clinical, final,	and at the	the presence of	knowledge,	professional
	accompanying	border of the	incomplete or	conclusions and	knowledge
	diagnosis,	fields of	limited	arguments to	and practice
	emergency	knowledge	information,	specialists and	and/or
	conditions.		taking into	non-specialists,	evaluating the
			account aspects	in particular to	performance
			of social and	people who are	of teams and
			ethical	studying	collectives
			responsibilities		
-				-	

PC 4.	The ability to plan and carry	Critical understanding	Specialized skills/problem-	Clear and unambiguous	Managing work or
	out measures for the	of problems in the field and at	solving skills required for	presentation of one's own	learning processes that are complex, unpredictable
					and

				1	
	prevention o	the border	conducting	knowledge,	require
	f diseases of	of the	research	conclusions	new
	the organs	fields of	and/or	and arguments	strategic
	and	knowledge	implementing	to specialists	approaches
	tissues of		innovative	and non-	
	the		activities to	specialists, in	
	oral cavity		develop new	particular to	
	and		knowledge	people who are	
	maxillofacial		and	studying	
	area.		procedures	2100,000	
PC	Ability to	Critical	Specialized	Clear and	Managing work or
5.	design		~p••••••		111411481118 11 01
	the process of	thinking of	skills/problem-	unambiguous	learning processes
	providing	problems in	solving skills	presentation of	that are complex,
	medical care:	the field and	necessary for	one's own	unpredictable and
	to	at	,		r r
	determine the	the	conducting	knowledge,	require new
		boundaries		_	•
	approaches,	of the fields	research and/or	conclusions and	strategic
		of			
	plan, types and	knowledge	carrying out	arguments to	approaches
	principles of		innovative	specialists and	
	treatment of		activities to	non-specialists,	
	11 0.4		1 1	in	
-	diseases of the		develop new	particular to	
	organs and		knowledge and	people who are	
	tissues of the		procedures	studying	
	oral cavity and				
	maxillofacial				
	area.				
PC 6.	The ability to	Critical	Ability to solve	Clear and	Managing work or
	determine a	understanding	problems in new	unambiguous	learning processes
	rational	of problems	or unfamiliar	communication	that are complex,
	regimen	in		of	
	of work, rest,	the field and at	environments in	one's own	unpredictable and
	and diet for	the border of	the presence of	knowledge,	require new
	patients in the	the fields of	incomplete or	conclusions and	strategic
	treatment of	knowledge	limited	arguments to	approaches
	diseases of the	J	information,	specialists and	
	organs and		taking into	non-specialists,	
	_			in	
	tissues of the		account aspects	particular to	
	oral cavity and		of social and	persons studying	
	maxillofacial		ethical		
	region.		responsibilities		
PC 7.	The ability to	Critical	Ability to solve	Clear and	Responsibility for
	determine the	thinking of	problems in new	unambiguous	contributing to
	management	problems in	or unfamiliar	presentation of	professional
	tactics of	the field and at	environments in	one's own	knowledge and
r	patients with	the	the presence of	knowledge,	practice and/or
	patients with	boundaries	1		r

	organs and	knowledge	limited	arguments to	performance of
	tissues of the		information,	specialists and	teams and
	oral cavity and		taking into	non-specialists, in	collectives
	maxillofacial		account aspects	particular to	
	region with		of social and	people who are	
	concomitant		ethical	studying	
	somatic diseases.		responsibilities		
PC 8.	Ability to	Critical	Ability to solve	Clear and	Responsibility for
	perform medical	understanding	problems in new	unambiguous	contributing to
	and dental	of problems in	or unfamiliar	presentation of	professional
	manipulations.	the field and at	environments in	one's own	knowledge and
		the border of	the presence of	knowledge,	practice and/or
		the fields of	incomplete or	conclusions and	evaluating the
		knowledge	limited	arguments to	performance of

			information,	specialists	teams and
			taking into	and non-	collectives
			account	specialists, in	
			aspects of	particular to	
			social and	people who	
			ethical	are studying	
F ~		g	responsibilities		
PC 9.	The ability to	Specialized	Ability to solve	Clear and	Managing work or
	treat the main	conceptual	problems in new	unambiguous	learning processes
	diseases of the	knowledge that	or unfamiliar	presentation of	that are complex,
	organs and	includes	environments in	one's own	unpredictable and
	tissues of the	current	the presence of	knowledge,	require new
	oral cavity and	scientific	incomplete or	conclusions and	strategic
	maxillofacial	achievements	limited	arguments to	approaches
	area.	in the field of	information,	specialists and	
		professional	taking into	non-specialists,	
				in	
		activity or field	account aspects	particular to	
		of knowledge	of social and	people who are	
		and is the	ethical	studying	
		basis			
		for original	responsibilities		
		thinking and			
		conducting			
		research			
PC 10	Ability to	Specialized	Ability to solve	Clear and	Managing work or
	organize and	conceptual	problems in new	unambiguous	learning processes
	carry out	knowledge that	or unfamiliar	presentation of	that are complex,
	medical	includes	environments in	one's own	unpredictable and
	evacuation	current	the presence of	knowledge,	require new
	measures.	scientific	incomplete or	conclusions and	strategic
		achievements	limited	arguments to	approaches
		in the field of	information,	specialists and	
		professional	taking into	non-specialists, in	
		activity or field	account aspects	particular to	
		of knowledge	of social and	people who are	
		and is the basis	ethical	studying	
		for original	responsibilities		
		thinking and			
		conducting			
		research			
PC 11.	Ability to	Critical	Ability to solve	Clear and	Responsibility for
	determine	understanding	problems in new	unambiguous	contributing to
	tactics,	of problems	or unfamiliar	presentation of	professional
	methods	in			

	emergency	the border of	the presence of	knowledge,	practice and/or
	medical	the fields of	incomplete or	conclusions and	evaluating the
	assistance.	knowledge	limited	arguments to	performance of
			information,	specialists and	teams and
			taking into	non-specialists, in	collectives
			account aspects	particular to	
			of social and	people who are	
			ethical	studying	
			responsibilities		
PC 12.	Ability to	Critical	Ability to solve	Clear and	Responsibility for
	organize and	understanding	problems in new	unambiguous	contributing to
	conduct a	of problems in	or unfamiliar	presentation of	professional
	screening	the field and at	environments in	one's own	knowledge and
	examination in	the border of	the presence of	knowledge,	practice and/or

	dontista	the fields	in committee - ::	aanalusias -	avaluatina
	dentistry.	the fields of	incomplete or limited	conclusions	evaluating the
		knowledge	information,	and arguments to specialists	tne performance
		Kilowieuge	taking into	and non-	of teams and
			account	specialists, in	collectives
			aspects of	particular to	Concerives
			social and	people who are	
			ethical	studying	
			responsibilities	Studying	
PC	The ability to	Critical	Specialized	Clear and	Managing work
13.			7 F		or
	assess the	understanding	skills/problem-	unambiguous	learning
	impact				processes
	of the	of problems in	solving skills	communication of	that are complex,
	environment on	the field and at	necessary for	own knowledge,	unpredictable and
	the state of	the border of	conducting	conclusions and	require new
	health of the	the fields of	research and/or	arguments to	strategic
	population	knowledge	carrying out	specialists and	approaches
	(individual,		innovative	non-specialists,	-FF- 3
				in	
	family,		activities with the	particular to	
	population).		aim of developing	learners	
			new knowledge		
			and procedures		
PC 15.	Processing of	Critical	Ability to solve	Use of foreign	Responsibility for
	state, social and	understanding	problems in new	languages in	contributing to
	medical	of problems in	or unfamiliar	professional	professional
	information.	the field and at	environments in	activities	knowledge and
		the border of	the presence of		practice and/or
		the fields of	incomplete or		evaluating the
		knowledge	limited		results of team and
			information,		collective activities
			taking into		
			account aspects		
			of social and		
			ethical		
			responsibilities		
PC 16.	Ability to	Specialized	Ability to	Clear and	Managing work or
	organize and	conceptual	integrate	unambiguous	learning processes
	carry out	knowledge that	knowledge and	presentation of	that are complex,
	rehabilitation	includes	solve complex	one's own	unpredictable and
	measures and	current	problems in	knowledge,	require new
	care for patients	scientific	broad or	conclusions and	strategic
	with diseases of	achievements	multidisciplinar	arguments to	approaches
	the oral cavity	in the field of	y contexts	specialists and	
	and	professional	J : : : :	non-specialists,	
		1		in	

	maxillofacial	activity or field		particular to	
	area.	of knowledge		people who are	
		and is the basis		studying	
		for original			
		thinking and			
		conducting			
		research			
PC 17.	The ability to	Critical	Ability to	Use of foreign	Ability to continue
	legally secure	understanding	integrate	languages in	learning with a
	one's own	of problems in	knowledge and	professional	high degree of
	professional	the field and at	solve complex	activities	autonomy
	activity.	the border of	problems in		
		the fields of	broad or		
		knowledge	multidisciplinary		

PC	The ability to	Critical	contexts Ability to	Use of foreign	Ability to
18.	.,	1 1			continue
	provide pre-	understanding	integrate	languages in	learning with a
	medical care	of problems in	knowledge and	professional	high degree of
	according to the	the field and at	solve complex	activities	autonomy
	protocols of	the border of	problems in		
	tactical	the fields of	broad or		
	medicine.	knowledge	multidisciplinary		
			contexts		

Learning outcomes: Distribution of learning outcomes by types of learning activities

Competencies	Program	Names of
that the	learning	educational
applicant must	outcomes	disciplines,
master		practices
GC 1 – 6, 9, 11-	PLO 1 –12, 14 -23	Physical rehabilitation and
		sports
13,15		medicine
PC 1 –13, 15 –		
18		

Integrative final program learning outcomes, the formation of which is facilitated by the educational discipline:

- PLO 1. Select and identify leading clinical symptoms and syndromes (according to list 1); according to standard methods, using the previous data of the patient's history, the data of the patient's examination, knowledge about the person, his organs and systems, establish a probable nosological or syndromic preliminary clinical diagnosis of a dental disease (according to list 2).
- PLO 2. Collect information about the patient's general condition, evaluate the patient's psychomotor and physical development, the condition of the maxillofacial organs, based on the results of laboratory and instrumental studies, evaluate information about the diagnosis (according to list 5).
- PLO 3. Prescribe and analyze additional (mandatory and optional) examination methods (laboratory, X-ray, functional and/or instrumental) according to list 5, of patients with diseases of organs and tissues of the oral cavity and maxillofacial area for differential diagnosis of diseases (according to list 2).
- PLO 4. Determine the final clinical diagnosis in compliance with the relevant ethical and legal norms, by making a reasoned decision and logical analysis of the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis under the control of the head physician in the conditions of a medical institution (according to the list 2.1).
- PLO 5. Establish a diagnosis of emergency conditions under any circumstances (at home, on the street, in a medical institution), in conditions of emergency, martial law, lack of information and limited time (according to list 4).
- PLO 6. Plan and implement dental disease prevention measures among the population to prevent the spread of dental diseases.
- PLO 7. Analyze the epidemiological situation and carry out mass and individual, general and local drug and non-drug prevention measures for dental diseases.
- PLO 8. Determine the approach, plan, type and principle of treatment of dental disease (according to list 2) by making a reasoned decision according to existing algorithms and standard schemes.
- PLO 9. To determine the nature of the regime of work, rest and the necessary diet in the treatment of dental diseases (according to list 2) on the basis of a preliminary or final clinical diagnosis by making a reasoned decision according to existing algorithms and standard schemes.

PLO 10. Determine the tactics of managing a dental patient with somatic pathology (according to list 3) by making a reasoned decision according to existing algorithms and standard schemes.

PLO 11. To carry out treatment of basic dental diseases according to existing algorithms and standard schemes under the control of the head physician in the conditions of a medical institution (according to list 2.1).

PLO 12. To organize medical evacuation measures among the population, military personnel, in emergency

situations, including martial law, during the expanded stages of medical evacuation, taking into account the existing system of medical evacuation support.

- PLO 14. Analyze and evaluate government, social and medical information using standard approaches and computer information technologies.
- PLO 15. Assess the impact of the environment on the state of health of the population in the conditions of a medical institution according to standard methods.
- PLO 16. To form goals and determine the structure of personal activity based on the result of the analysis of certain social and personal needs.
- PLO 17. Follow a healthy lifestyle, use self-regulation and self-control techniques.
- PLO 18. To be aware of and be guided in one's activities by civil rights, freedoms and duties, to raise the general educational cultural level.
- PLO 19. To comply with the requirements of ethics, bioethics and deontology in their professional activity.
- PLO 20. To organize the required level of individual safety (own and the persons they care about) in case of typical dangerous situations in the individual field of activity.
- PLO 21. Perform medical manipulations on the basis of a preliminary and/or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and in different conditions (according to list 6).
- PLO 22. To perform medical dental manipulations on the basis of preliminary and/or final clinical diagnosis (according to lists 2, 2.1) for different segments of the population and in different conditions (according to list 7).
- PLO 23. Perform emergency medical care manipulations using standard schemes, under any circumstances based on the diagnosis of an emergency (according to list 4) in limited time (according to lists 6, 7).

5. Information volume of the discipline

The study of the discipline takes 30 hours (10 hours of practical classes, 4 hours of lectures, 16 hours of independent work of students) 1 ECTS credit.

The structure of the discipline "Physical Rehabilitation and Sports Medicine"

Nº	Торіс	Lecti on	Practi ce	sws	Individual work
1.	Complex medical examination during exercise. Research and assessment of physical development. Research and assessment of functional capacity of the organism. Medical conclusion. International classification of functioning, limitations of vital activity and health.	2	2	4	-
2.	General bases of application of means of physical rehabilitation at patients of a dental profile. The use of means of physical rehabilitation for the prevention and correction of occupational diseases in dentists.	2	2	4	-
3.	Physical rehabilitation for purulent- inflammatory processes in the maxillofacial area. Physical rehabilitation for fractures of the jaws and bones of the facial skeleton.	2	2	-	

4.	Physical rehabilitation in diseases and contractures temporo-mandibular joints. Physical rehabilitation in neuritis of the facial and trigeminal nerve.	0	2	2	-
5.	Physical rehabilitation during reconstructive and plastic operations in the maxillofacial area.	0	2	4	-
	Physical rehabilitation for congenital anomalies of jaw development and occlusion disorders in children.		10	16	
	TOTAL HOURS – 30 / 1 credits ECTS	4	10	16	
Fina	l control module "Physical rehabilitation, spo	rts medicin	ie»		Passed

Thematic plan of practical classes

№	Торіс	Hours
1	Complex medical examination during exercise. Research and assessment of physical development. Research and assessment of functional capacity of the organism. Medical conclusion. International classification of functioning, limitations of vital activity and health.	2
2	General bases of application of means of physical rehabilitation at patients of a dental profile. The use of means of physical rehabilitation for the prevention and correction of occupational diseases in dentists.	2
3	Physical rehabilitation for purulent-inflammatory processes in the maxillofacial area. Physical rehabilitation for fractures of the jaws and bones of the facial skeleton.	2
4	Physical rehabilitation for diseases and contractures of the temporomandibular joints. Physical rehabilitation for neuritis of the facial and trigeminal nerves.	2
5	Physical rehabilitation during reconstructive and plastic operations in the maxillofacial area. Physical rehabilitation for congenital anomalies of jaw development and occlusion disorders in children.	2
	TOTAL HOURS:	10

Thematic plan of self work of student (SWS) III year students of Faculty of

Dentistry "Physical rehabilitation and sports

medicine"

No	Topic	Hours
	of	
	SWS	
1	Making appointments with exercise therapy in medical records. Writing a	4
•	medical control card (form № 061 / o) and a card of a patient being treated	
	in the surgical dentistry department, in the exercise therapy office or	
	rehabilitation center (form №42 / o). Formation of practical skills.	
2	Research and assessment of the dental and maxillofacial system. Features of	4
•	the use of therapeutic massage in dentistry.	

3	Features of physical rehabilitation for burns and injuries of soft tissues of	2
•	the maxillofacial area.	
4	Tasks of therapeutic exercise in facial nerve disorders caused by surgical	2
	treatment in the maxillofacial area.	
5	Sound gymnastics and special exercises that have a targeted effect on	4
	functionally impaired systems in children with congenital malformations of	
	the upper lip and hard and soft palate.	

Thematic plan of lections

№	Торі	Но
	c	u
		rs
1.	Complex medical examination during exercise. Research and assessment of physical development. Research and assessment of functional capacity of the organism. Medical conclusion.	2
2.	General principles of the use of physical rehabilitation in patients with dental profile. Specifics the applications of the therapeutic massage in dentistry.	2
	TOTAL HOURS:	4

Individual tasks - no

6. Teaching methods

Methods of using the word. The main types of verbal transmission of knowledge in the process of physical education are: explanation, narration and conversation (introductory conversations; conversations aimed at communicating new knowledge, and conversations to check the acquired knowledge and the degree of awareness of students' actions).

Methods of providing visibility. This group of teaching methods includes the demonstration of movements in nature or in the form of images perceived through direct observation. The study of functional samples is always accompanied by their visual demonstration by the teacher or students under the direct supervision of the teacher. Practically, a live demonstration is always accompanied by a verbal explanation. Moreover, the word in this case plays an auxiliary role. Mainly in the educational work, a demonstration of physical therapy in the form of a physical exercise by the teacher or one of the students is used. The demonstration may precede the explanation, be accompanied by the explanation, or be carried out after the explanation. The demonstration achieves its goal if the movement being demonstrated is clearly visible to all students, if it is performed technically correctly, if it is preorganized and the students' attention is properly directed.

Methods of practical exercises. In the theory and practice of physical rehabilitation and sports medicine, the term "exercise" includes two different concepts: a) a means of physical rehabilitation, that is, a specially organized motor action; b) the method of using the means, the essence of which consists in the deliberate, often multiple repetition of specified motor actions with the aim of normalizing physical activity in the complex treatment of diseases, prevention of their exacerbations and complications, restoration of the proper quality of life of a sick person.

7. Distribution points that get students

Current control is performed during the training sessions and aims at checking mastering educational material. The form of the current control during the classes defined working curriculum subjects. The self work of students, which is provided for by the work curriculum along with practical classes, is monitored during the current monitoring. The form of final control is credit.

Evaluation of current educational activity. In evaluating the mastering of each topic for current educational activity the student score for the 4-point scale on the basis of approved evaluation criteria for the relevant discipline. This takes into account all types of work, provided the curriculum. The student must obtain an assessment of each topic. Forms assessment of current educational activity should be standardized and include control of theoretical and practical training. Exhibited the traditional assessment scale are converted into points.

- **8.** Current control is carried out during training sessions and is aimed at checking students' assimilation of educational material.
- 8.1 Assessment of current educational activities. During the assessment of mastery of each topic for the current educational activity, the student is assigned a 4-point (national) grade, while taking into account

all types of work provided by the discipline program. The student must receive a grade on each topic for further conversion of grades into points on a multi-point (200-point) scale.

9. The form of the final control of study success is a credit. Semester assessment of subjects is carried out after the end of its study, before the beginning of the examination session.

The maximum number of points that a student can collect for current educational activity for credit discipline "Physical Rehabilitation and Sports Medicine" is 200 points.

The minimum number of points that a student must collect for current educational activity for enrollment courses is 120 points.

Calculating the number of points is based on student evaluations received by traditional scale while learning subjects during the semester, by calculating the arithmetic (SA), rounded to two decimal places. The resulting value is converted into points by multi-scale as follows:

$$X = CA \times 200 / 5$$

For convenience, a table conversion 200 - point scale:

Table 1 Conversion of the average score for current activity in multimark scale for courses, culminating her credits (differentiated credit)

4- point scale	200- point scale	4- point scale	200- point scale	4- point scale	200- point scale	4-point scale	200-point scale
5	200	4.45	178	3.92	157	3.37	135
4.97	199	4.42	177	3.89	156	3.35	134
4.95	198	4.4	176	3.87	155	3.32	133
4.92	197	4.37	175	3.84	154	3.3	132
4.9	196	4.35	174	3.82	153	3.27	131
4.87	195	4.32	173	3.79	152	3.25	130
4.85	194	4.3	172	3.77	151	3.22	129
4.82	193	4.27	171	3.74	150	3.2	128
4.8	192	4.24	170	3.72	149	3.17	127
4.77	191	4.22	169	3.7	148	3.15	126
4.75	190	4.19	168	3.67	147	3.12	125

4.72	189	4.17	167	3.65	146	3.1	124
4.7	188	4.14	166	3.62	145	3.07	123
4.67	187	4.12	165	3.57	143	3.02	121
4.65	186	4.09	164	3.55	142	3	120
4.62	185	4.07	163	3.52	141	less 3	not enough
4.6	184	4.04	162	3.5	140		
4.57	183	4.02	161	3.47	139		
4.52	181	3.99	160	3.45	138		
4.5	180	3.97	159	3.42	137		
4.47	179	3.94	158	3.4	136		

Independent work of students is evaluated during the current control of theme on the appropriate lesson. Mastering of themes which dart out only on independent work is controlled only at the final control.

Final control is carried out to assess learning outcomes at a particular educational qualification level and its individual stages completed national scale and scale ECTS. Final control includes control and certification semester student. Semester control is carried out in the form of offset (differentiated credit) in the amount of educational material defined work program and in the terms established working curriculum, individual curriculum the student.

Semester differentiated offset - a form of final control, which is to assess the mastering of educational material exclusively on the basis of the performance of all types of educational works provided work study program. Semester (differentiated) test results exhibited by current control.

8. Determination of the number of points that a student collected from discipline

Evaluation of discipline, a form of final control which is differentiated credit is based on the current training and calculated in points, according to Table 1.

Evaluation of discipline, a form of which is the final control test is based on current educational activities and expressed scale "Passed" or "not passed". To enroll a student must obtain for current learning activity score of at least 60% of the maximum amount of points in the discipline (120 points).

Points Converted regardless of discipline both in scale ECTS, and a 4-point scale.

Score scale ECTS 4-point scale not converted and vice versa.

Scores students studying for another degree, to the number of points gained in the discipline ranked on a scale ECTS as follows:

Estimate	Statistical index
ECTS	D + 100/ - f - + - 1 - + -
A	Best 10% of students
В	Next 25% of students
C	Next 30 % of students
D	Next 25% of students
E	Last 10% of students

Scores of discipline for students who successfully completed the program, converted into traditional 4-point scale by absolute criteria, which are listed in the table below:

Table 3

Points of discipline	Estimate a 4-
	point
	scale
From 170 to 200 points	5
From 140 to 169 points	4
From 139 points to the minimum number	3
of points that a student must score	
Below the minimum number of points	2
that a student must score	

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