

Національний медичний університет імені О.О. Богомольця

Кафедра травматології та ортопедії

„ЗАТВЕРДЖУЮ”

Проректор з науково-педагогічної та
навчальної роботи,
д.мед.н., професор О.М. Власенко



2020 р.

**SYLLABUS OF THE COURSE
"TRAUMATOLOGY AND ORTHOPEDICS. REHABILITATION OF
PERSONS WITH DISORDERS OF THE MUSCULOSKELETAL SYSTEM "**

Level of higher education - the second (master's) level of higher education in the specialties: 225 "Medical Psychology".

Educational program: for the medical-psychological faculty.

1. Abstract of the course. Traumatology and orthopedics as a discipline:

- a) is based on the study of morphological disciplines by students - human anatomy, histology, cytology, cytology and embryology, physiology, pathomorphology, pathophysiology, propaedeutics of internal medicine, propaedeutics of pediatrics, radiology, pharmacology and integrates with these disciplines;
- b) lays the foundations for students to study traumatology and orthopedics, surgery, pediatric surgery, neurosurgery, anesthesiology and intensive care, where surgical treatments are used, which involves the integration of teaching with these disciplines and the formation of skills in further learning and professional activities;
- c) provides an opportunity to gain practical skills and develop professional skills for the diagnosis and provision of medical care for certain pathological conditions and during the examination period of care for traumatological and orthopedic patients.

Term: 9th and 10th (5th year).

Module volume: total hours - 90; of which lectures - 10 hours, practical classes - 30 hours, independent work - 50 hours, the number of ECTS credits - 3.

The purpose of the course is to master the skills of providing care to patients with diseases and injuries of the musculoskeletal system, the ultimate goals are set on the basis of OPP training of a specialist in accordance with the block of its content module (science) and is the basis for building the content of the discipline. Its description is formulated through skills in the form of target tasks (actions). On the basis of the ultimate goals for each module or content module, specific goals are formulated in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of the discipline. The end goals are located at the beginning of the program and precede its content, specific goals precede the content of the corresponding content module.

The results of the discipline:

- be able to determine the tactics of management of patients with injuries and the most common orthopedic diseases of the musculoskeletal system;
- demonstrate mastery of methods of injury prevention and orthopedic diseases;
- be able to diagnose emergencies with injuries of the musculoskeletal system and provide emergency medical care;
- know the principles of rehabilitation treatment and rehabilitation of patients with musculoskeletal disorders;
- know the medical and psychological foundations of care for patients with injuries and diseases of the musculoskeletal system;
- independently conduct differential diagnosis of traumatic injuries of the musculoskeletal system, establishing a preliminary diagnosis of injuries and the most common orthopedic diseases.

Necessary training components.

The content of the discipline

Modular content 1. General questions traumatology and orthopedics, congenital and acquired diseases of musculoskeletal apparatus.

Topic 1. Features survey of orthopedic and trauma patients. Congenital clubfoot and muscular torticollis.

Topic 2. Hip dysplasia and congenital hip dislocation (clinic, diagnosis, treatment).

Topic 3. Degenerative-dystrophic diseases of joints and spine. Etiology, pathogenesis, classification, clinic pictures, diagnostics and treatment.

Topic 4. Inflammatory diseases of the joints, osteoarticular tuberculosis, tumors of the musculoskeletal system.

Topic 5. Congenital and acquired diseases of the spine.

Content module 2. Injuries of the bones and joints. Questions of military traumatology. Traumatic shock. Crush syndrome. Gunshot wounds of extremities and joints.

Topic 3. Injuries of upper extremity (damage to the shoulder girdle and upper limb).

Topic 7. Damage to the spine, pelvis.

Topic 8. Damage to the bones and joints of the lower extremity.

Topic 9. Military traumatology: gunshot and closed injuries of limbs and joints.

Topic 10. Military traumatology. Traumatic shock. Crush syndrome. Medical and psychological care for patients with combat trauma, amputations, psychotraumatic disorders. Traumatic illness.

Final module control

**Structure of final credit-module "traumatology and orthopedics"
for the medical-psychological faculty**

Topic	Total hours		Extracurricular students work (preparation of a work plan, reference, multimedia presentation and report on classes on the following topics)	
	lectur es	Practi cal classe s	theme of work	hou rs
Modular content 1. General questions traumatology and orthopedics, congenital and acquired diseases of musculoskeletal apparatus.				
1. Features survey of orthopedic and trauma patients. Congenital clubfoot and muscular torticollis.	1	3	1. Multiple trauma. Multiple and combined damage.	5
2. Congenital clubfoot and muscular torticollis. Hip dysplasia and congenital hip dislocation (clinic, diagnosis, treatment).	1	3	2. Traumatic shock, diagnostics and treatment.	
3. Degenerative-dystrophic diseases of joints and spine. Etiology, pathogenesis, classification, clinical pictures, diagnostics and treatment.	1	3	3. Osteochondropathy (Leg-Calve-Perthes disease, Osgood-Shlatters disease, Sheuermann-Mau disease, Kohler I, II, Kienbock's diseases).	5
4. Inflammatory diseases of the joints, osteoarticular tuberculosis, tumors of the musculoskeletal system.	1	3	4. Soft tissue damage (bruising, hemorrhage, ligament damage).	5
5. Congenital and acquired diseases of the spine.	1	3	5. Disease Dupuytren, Ledderhose, Peyronie's.	5
<u>Content module 2. Injuries of the bones and joints. Questions of military traumatology. Traumatic shock. Crush syndrome. Gunshot wounds of extremities and joints.</u>			6. Arthropathy (diabetic, psoriatic, etc.).	5
6. Injuries of upper extremity (damage to the shoulder girdle and upper limb).	1	3	7. Tumors of the musculoskeletal system.	5
7. Damage to the spine, pelvis.	1	3	8. Fibrous osteodystrophy (Paget's disease, Recklinghausen's disease, etc.).	5
8. Damage to the bones and joints of the lower extremity.	1	3		
9. Military traumatology: gunshot and closed injuries of limbs and joints.	1	3	9. Epicondylitis, degenerative-dystrophic soft tissue diseases, carpal canal syndrome, etc.	5
10. Military traumatology. Traumatic shock. Crush syndrome. Medical and psychological care for patients with	1	3	10. Anomalies of the fingers (syndactyly, polydactyla, etc.).	5

combat trauma, amputations, psychotraumatic disorders. Traumatic illness. Final module control.			
Total hours:	10	30	50

Distribution of points that are assigned to students in the module

№	Module (current educational work)	Maximum number of points	Minimum number of points
1	Content module 1	40	15
	Topic 1	8	3
	Topic 2	8	3
	Topic 3	8	3
	Topic 4	8	3
	Topic 5	8	3
2	Content module 2	40	15
	Topic 6	8	3
	Topic 7	8	3
	Topic 8	8	3
	Topic 9	8	3
	Topic 10	8	3
Together content modules		80	30
Independent work of students		0	0
Final module control		120	80
TOTAL amount of points		200	110

Note: when mastering the topic according to the traditional system, students are assigned points: "5" - 8-7 points, "4" - 6-5 points, "3" - 4-3 points.

The student's independent work according to the traditional system is not evaluated.

The maximum number of points for the current educational activity of the student is 80. The student is admitted to the final module control when fulfilling the conditions of the curriculum and if for the current educational activity he scored at least 30 points: current $3 \times 10 = 30$.

The final module control can be rated from the minimum number of points (80) to the maximum (120). The final module control passes to the student who scored at least 110-120 points.

Types of training sessions: lectures, practical classes, consultations.

Forms of study: full-time, part-time.

Teaching methods: verbal, explanatory-demonstration, problem publishing method, reproductive, research, etc.

Control methods: oral, written, practical, graphic, test.

Forms of final control: credit.

Means of diagnosing learning success: individual tasks, presentations, essays, questions for current control, tests, tasks, exercises, questions for final control.

Language of instruction: Ukrainian, Russian, English.

2. Assessment

The forms of control and the assessment system will be adapted according to the discipline programs and instructions about the system of assessment of the initial activity of students in the credit-modular system of organizing the initial process, approved by the Ministry of Health.

Assessment per module is defined as the total of assessments of current learning activities (in points) and assessment of final module control (in points), which is set when assessing theoretical knowledge and practical skills in accordance with the lists defined by the discipline program.

The maximum amount of points assigned to students when mastering the module (credit) - 200, including for current educational activities - 80 points (40%), according to the results of the modular final control - 120 points (60%).

Current control is carried out at each practical lesson in accordance with the specific objectives of each topic. When evaluating students' learning activities, it is necessary to give preference to standardized methods of control: testing, structured written work, structured according to the procedure of control of practical skills in conditions close to real ones.

Evaluation of current educational activities:

The weight of each topic within one module should be the same and is determined by the number of topics in the module. Assessment of current educational activities of students is described in the working curriculum of the discipline.

Assessment of independent work.

Assessment of students' independent work, which is provided for in the plan of the order with the audit work, is carried out during the current control of topics in response to the audit lesson.

Assessment of topics submitted only for independent work, which is part of temporary audit training sessions, is controlled under the final module control.

Final modular control.

The final module control is carried out upon completion of the study of all topics of the module in the last lesson of the module.

Students who have completed all types of work provided for in the curriculum and scored at least the minimum amount of points during the study of the module are admitted to the final control.

The form of final control is standardized and includes control of theoretical and practical training. Specific forms of final module control are defined in the work program.

Evaluation of discipline.

The grade in the discipline is given only to students who have passed the module.

Incentive points by the decision of the Academic Council may be added to the amount of points in the discipline for students who have scientific publications or won prizes for participation in the Olympiad in the discipline among Ukrainian universities and more.

The objectivity of the assessment of students' learning activities should be checked by statistical methods (correlation coefficient between current performance based on the results of the final module control).

Conversion of the number of points from the discipline into grades on ECTS scales and four points (traditional).

Points from the discipline are independently transferred to both the ECTS scale and the four-point scale. Grades on the ECTS scale are not converted into a four-point scale and vice versa.

Ranking with assignments of grades "A", "B", "C", "D", "E" is carried out for students of this course who study in one specialty and have successfully completed the study of the discipline. Students who received grades FX, F ("2") are not included in the list of students who are ranked even after re-composing the module. Such students automatically receive a score after retaking. Evaluation in the discipline FX, F ("2") is given to students who have not enrolled in at least one module of the discipline after its completion.

A grade of FX ("2") is given to students who have scored the minimum number of points for the current academic activity, but who have not been credited with the final module control. This category of students has the right to re-take the final module control according to the approved schedule during the winter or summer vacation (up to 1 current year) within two weeks after the end of the school year. Reassembly of the final control is allowed no more than twice.

Grade F is given to students who have attended all classroom withdrawals from the module, but did not score the minimum number of points for the current educational activity and are not admitted to the final module control. This category of students has the right to re-study the module.

Discipline scores for students who have successfully completed the program, the discipline is converted to a traditional four-point scale with the absolute criteria listed below in the table:

Points in the discipline	Score on a four-point scale
From 170 to 200 points	„5”
From 140 to 169 points	„4”
From 139 to 110 points	„3”

Below the minimum amount of points, which must be typed by the student	„2”
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The ECTS score is not converted to the traditional four-point scale because the ECTS scale and the four-point scale are independent.

3. Course policy: mandatory observance of academic integrity by students, namely:

- independent performance of all types of work provided by the work program;
- links to sources of information in the case of the use of ideas, developments, information or statements;
- providing reliable information about the results of their own educational activities, sources of information;
- compliance with the legislation on copyright and related rights.

Discussed and recommended at the meeting of the department of traumatology and orthopedics of Bogomolets National Medical University

Protocol № 13 of August 28, 2020

Reapproved: Protocol № 1 of January 20, 2021

Minutes № 1 of 30 August 2021

**Head of the Department of Traumatology and Orthopedics,
Doctor of medical science, professor**

Burianov O.A.

