



APPROVED
EMD decision

2021

Protocol No. 6

Chairman of the EMC, Vice-Rector,
candidate of pedagogical sciences,
associate professor Apezova D.U.



SYLLABUS by discipline

B.3.4.6. TRAUMATOLOGY AND ORTHOPEDICS, CHILD TRAUMA

For students of the educational program, higher professional education in the specialty 560001 "General Medicine" (5-year education) in the specialty "Doctor"

Type of study work	Total hours
course	4
Semester	7
Number of weeks	18
Credits	4
The total complexity of the discipline	120
Classroom/practical studies (PS)	72
Student Independent Work (SIW)	48
Forms of control	
current control	Testing, oral questioning, written test
Frontier control	Testing
Midterm	Testing
Final control	exam
Semester rating by discipline:	Point-rating system

Information about teacher

Full Name	Mahmadiev Adaham Kaharovich
Post	teacher
Academic degree	
Academic title	
Email address	
Location of the department (address)	KR, Bishkek, st. Shabdan Baatyr 128, floor 2, room 6
Telephone	0706932xxx
Consultation hours	11.00-13.30

Characteristics of the academic discipline

The purpose of studying the discipline "Traumatology, orthopedics, children's trauma" is to master the knowledge of traumatology, to study the basics of diagnosis and treatment of patients with injuries and diseases of the musculoskeletal system, as well as the principles of prevention of complications, to familiarize students with the principles of providing assistance to patients with a traumatological profile. Students study the system of knowledge in the field of injuries and diseases of the musculoskeletal system; develop professional skills in drawing up an algorithm for examining patients with traumatological and orthopedic profile using both clinical and instrumental examination methods; Learn to determine the severity of the patient's general condition after injury; formulate a diagnosis and determine a prognosis; can

form competencies for choosing optimal treatment regimens for the main types of injuries and diseases of the musculoskeletal system; demonstrate knowledge according to the principles of providing "emergency medical care" to traumatological victims; know the principles of the organization of the provision of trauma care in the hospital (in the emergency department, in the specialized department, in the emergency / planned operating room. At the end of the course, students have developed communication skills with patients, taking into account the deontological features of orthopedic and traumatological pathology, readiness and ability to apply knowledge and skills in the conservative treatment of patients with the most common injuries (with fractures of the radius in a typical place, ankles, proximal humerus, fractures of the proximal femur). Students demonstrate skills in establishing a preliminary diagnosis for a fracture and dislocation according to the clinical picture; constructing an algorithm for examining a patient; transport immobilization of a limb during a fracture; reposition; wound treatment; making a decision on conservative or surgical treatment.

Prerequisites of the discipline:

- Occupational diseases
- Faculty therapy
- Hospital therapy
- Childhood illnesses
- Outpatient pediatrics
- Children's infectious diseases
- Surgical diseases

Post-requirements of the discipline:

- Obstetrics and gynecology
- Oncology
- Assistant hospital doctor

Learning outcomes of the discipline according to the RO GPP

RE-8 - Interpret, analyze and evaluate data from clinical, laboratory and instrumental diagnostic methods, make a treatment plan, including emergency care, taking into account urgent and priority signs of the disease.

Within the framework of this discipline, it is expected to achieve the following results of teaching the discipline, which are implemented within the framework of achieving

Competencies:

PC-17 - is capable and ready to perform basic therapeutic measures for the most common diseases and conditions in adults and children in outpatient and hospital settings;

PC-20 - is capable and ready to provide medical assistance in emergency situations, including those requiring medical evacuation;

Содержание дисциплины

№№	Наименование тем
1.	The place of traumatology and orthopedics in the medical specialty. Traumatism as a social problem. The concept of trauma and traumatism. A brief history of the development of traumatology and orthopedics. The purpose and objectives of the specialty. Principles of organization, scope of medical care. Principles of rehabilitation.
2.	Principles and methods of treatment of injuries and diseases of ODS. The concept of stable osteosynthesis. Bone regeneration
3.	Multiple injuries.
4.	Spinal injuries.
5.	Pelvic injuries
6.	Joint damage.
7.	Errors and complications in the treatment of injuries.
8.	Degenerative-dystrophic diseases of the spine
9.	Degenerative-dystrophic diseases of the joints.
10.	Osteochondropathy and osteodystrophy. Bone tumors.
11.	Combined radiation and chemical damage
12.	The doctrine of a gunshot wound. Surgical treatment of gunshot wounds.
13.	Thermal burns and cold injury
14.	Traumatic shock and traumatic illness in the wounded. Prolonged compression syndrome.

15.	Injuries and closed injuries of the skull, brain, spine and spinal cord.
16.	Wounds and closed abdominal injuries. Wounds and closed pelvic injuries
17.	Injuries and closed injuries of limbs. Transport immobilization of the wounded. Methods and means of anesthesia at the stages of medical evacuation.
18.	Bleeding and acute blood loss. Methods of temporary stopping of external bleeding
19.	Infectious complications of wounds
20.	Wounds and closed chest injuries.
21.	Examination of patients in Traumatology and orthopedics. Basic principles and methods of treatment of injuries of the musculoskeletal system. Bone regeneration
22.	Traumatic dislocations. Tendon injuries.
23.	Injuries to the upper limb.
24.	Injuries to the lower limb.
25.	Injuries to the chest, upper arms.
26.	Errors and complications in the treatment of injuries of the musculoskeletal system.
27.	Injuries and diseases of the knee joint.
28.	Treatment and rehabilitation of traumatological and orthopedic patients on an outpatient basis
29.	Infectious complications of wounds.
30.	Methods and means of anesthesia at the stages of medical evacuation. Injuries and closed injuries of limbs. Transport immobilization of the wounded
31.	Osteoporosis: pathogenesis, classification, clinical picture. Diagnosis of osteoporosis. Modern approaches to the treatment of osteoporosis.
32.	Combined radiation damage.
33.	Combined chemical damage.

List of main and additional literature:

Main literature:

1. Demichev S.V. First aid for injuries and diseases: textbook / S. V. Demichev. - M: GEOTAR-Media, 2018
2. Military field surgery: studies. for universities / edited by E.K. Gumanenko. - 2nd ed., ispr. and add. - M.: GEOTAR- Media, 2018

Additional literature:

1. Traumatology and orthopedics: textbook / [N. V. Kornilov]; edited by N. V. Kornilov. - 3rd ed., supplement and revision - M.: GEOTAR-Media, 2014.
2. Orthopedics. National leadership: S. P. Mironova, G. P. Kotelnikova. - M.: GEOTAR-Media, 2015.
3. Traumatology: national hands. with a CD / gl.ed. G.P. Kotelnikov, S.P. Mironov. - M.: GEOTAR-Media, 2013.

Internet resources:

<http://www.studentlibrary.ru>

<http://www.edu.ru>

<http://www.medicina.ru>

<http://www.journals.uchicago.edu>

Monitoring and evaluation of learning outcomes

The content of the rating system for assessing student performance

The rating assessment of students' knowledge in each academic discipline, regardless of its total labor intensity, is determined on a 100 (one hundred) - point scale and includes current, boundary, intermediate and final control.

The distribution of rating scores between types of control is established in the following ratio (according to the table of the score-rating system of assessments):

Form of control				
current (CC)*	boundary control (BC)**	mid-term exams (MC)***	Final /exam (FE)	Discipline Rating (RD)
0-100 points	0-100 points	0-100 points	0-100 points	0-100 points, with the translation of points into a letter designation

Note:

* $TK(middle) = \frac{\sum_1^n \times point}{\sum_1^n}$, where n is the number of types of classroom and extracurricular work of students in the discipline;

** $PK(middle) = \frac{\sum_1^n credit \times point}{\sum_1^n credits}$, where n is the number of modules (credits) in the discipline;

*** $ПК(middle) = \frac{\sum_1^n \times point}{\sum_1^n}$, where n is the number of intermediate controls (2 controls per semester: in the middle and at the end of the semester) by discipline;

****ИК – examination conducted at the end of the study of the discipline

;

***** $РД = \frac{TK_{ср} + PK_{ср} + ПК_{ср} + ИК}{4}$, the final rating of the results of all types of control at the end of the discipline;

$GPA = \frac{\sum_1^n \times балл}{\sum_1^n}$ where, n is the number of disciplines in the semester (for the past period of study).

A student who has not passed the current, boundary and intermediate controls to the final control (exam) is not allowed.

The current control is carried out during the period of classroom and independent work of the student on time according to the schedule, at the end of the study of the discipline, the average score of the current control (CC) is calculated. *Forms of current control can be:*

- testing (written or computerized);
- performance of individual homework assignments, abstracts and essays;
- student's work in practical (seminar) classes;
- various types of colloquia (oral, written, combined, express, etc.);
- control of performance and verification of reporting on laboratory work;
- visiting lectures and practical (seminar, laboratory) classes;
- Incentive rating (up to 10 points).

Other forms of current monitoring of results are also possible, which are determined by the teachers of the department and recorded in the work program of the discipline.

The frontier control is carried out in order to determine the results of the student's development of one credit (module) as a whole. *Frontier control* should be carried out only in writing, at the end of the study of the discipline, the average score of boundary control (BC) is calculated. As forms of *frontier control* of the training module, you can use:

- testing (including computer testing);
- interview with written fixation of students' answers;
- test.

Other forms of intermediate control of results are also possible.

Intermediate control (mid-term exams) is carried out in order to check the completeness of knowledge and skills in the material in the middle and end of the semester (2 times per semester) of studying the discipline, by the end of the study of the discipline, the average score of intermediate control (PCsr) is calculated, *forms of intermediate control (mid-term exams) can be:*

- testing (including computer testing);
- interview with written fixation of students' answers;
- test.

Other forms of intermediate control of results are also possible.

The final control is carried out during the session, by conducting an exam, it can be carried out in the following forms:

- testing (including computer testing);
- written exam (ticketing system).

Correspondence of the point-rating system of assessments used by the institute and the assessments of the European system for the transfer of credit units, labor intensity (ECTS)

Grade						Criterion
System of letters	digital system	Traditional system	Points (%)	Scored points (max - 100)	Evaluation by discipline without an exam	
A	4	5	95-100	95-100	Credited/ passed	"Excellent" - deserves a student who has shown a deep, systematic and comprehensive knowledge of the educational material, who freely performs practical tasks, who has mastered the recommended basic and additional literature on the discipline
A-	3,67		90-94	90-94		"Excellent" - deserves a student who has shown a deep, systematic and comprehensive knowledge of the educational material, who freely performs practical tasks, who has mastered the recommended basic literature on the discipline, but is not familiar with additional literature
B+	3,33	4	85-89	70-89		"Good" - exhibited to a student who has shown a systematic and comprehensive knowledge of the educational material, able to independently replenish and update this knowledge in the course of training, performing practical tasks, familiar with the main literature on the discipline
B	3,0		80-84			"Good" is given to a student who has shown a systematic and comprehensive knowledge of the educational material, who is able to independently replenish this knowledge in the course of training, performing practical tasks, but not fully familiar with the main literature on the discipline
B-	2,67		75-79			"Good" - is given to a student who has shown the systematic nature of knowledge in the discipline, who is able to independently replenish this knowledge in the course of training, performing practical tasks, but not fully familiar with the main literature on the discipline
C+	2,33		70-74			"Satisfactory" - is given to a student who does not have a systematic nature of knowledge in the discipline, who is not capable of independently replenishing and updating knowledge in the course of further education, performing practical tasks with errors
C	2,0	3	65-69	50-69		"Satisfactory" - is given to a student who made mistakes in completing assignments, but who has the necessary knowledge to eliminate them under the guidance of a teacher
C-	1,67		60-64			"Satisfactory" - is set to a student who made errors in the performance of tasks, but who has the possible knowledge to eliminate them under the guidance of a teacher
D+	1,33		55-59			"Satisfactory" - is set to a student who made errors in the performance of tasks, who does not have the necessary knowledge to eliminate them
D-	1,0		50-54			Satisfactory" - is given to a student who has made significant errors in the performance of tasks, who does not have the necessary knowledge to eliminate them
FX	0,5	2	25-49	Less of 50	not credited/not passed	"Unsatisfactory" - is set to a student who has not completed the task, does not have the necessary knowledge to eliminate them
F	0		0-24			"Unsatisfactory" - is set to a student who has not completed the task, does not have the necessary knowledge to eliminate them, even under the guidance of a teacher

Academic achievement requirements:

Attendance by students of all classroom classes without delay is mandatory.

In case of absence, classes are worked out in the order established by the dean's office.

If there are three passes, the teacher has the right not to allow the student to attend classes until the issue is administratively resolved.

If the absence of classes is more than 20.0% of the total number of classes, the student automatically enters the summer semester.

Note to the student:

- ✓ regularly review lecture material;
- ✓ Do not be late and do not miss classes;
- ✓ work off missed classes if you have permission from the dean's office;
- ✓ Actively participate in the classroom (individually and in groups;)
- ✓ timely and fully complete homework assignments;
- ✓ submit all assignments within the time specified by the teacher;
- ✓ independently study the material in the library and at home;

- ✓ timely and accurately fulfill the tasks of the teacher, individual tasks for the IWS to achieve learning outcomes;
- ✓ to master the basic and additional literature necessary for the study of the discipline;
- ✓ performing tasks, the student should not copy or reproduce the work of other students, scientists, practitioners, plagiarism;
- ✓ develop their intellectual and oratory skills;

In case of non-compliance with the requirements of the Memo, the student will be penalized in the form of deducting points (one point for each violated item).

If the requirements of the Memo are fully met, the student is encouraged in the form of an additional 10 points to the final control in the discipline.

Academic Integrity, Conduct and Ethics Policy:

- turn off your cell phone during class;
- Be polite;
- respect other people's opinions;
- formulate objections in the correct form;
- do not shout or raise your voice in the audience;
- independently complete all semester assignments;
- Eliminate plagiarism from your practice;

Methodical instructions.

It is recommended to organize the time required to study the discipline as follows:

When preparing for a practical lesson, you must first read the abstract with the teacher's explanations.

When performing exercises, you must first understand what you want to do in the exercise, then proceed to its implementation.

Literature work. The theoretical material of the course becomes more understandable when books are studied in addition to the abstract. After studying the main topic, it is recommended to perform several exercises.

Preparation for boundary and intermediate controls. In preparation for the boundary and intermediate control, it is necessary to study the theory: the definitions of all concepts before understanding the material and independently do several exercises.

Independent work of students is organized on all studied topics of each section. Independent work is carried out in the form of:

- work in Internet sites;
- work with basic and additional literature;
- fulfillment of written assignments;
- preparation of reports, abstracts, tables and posters on