




METHODOLOGICAL GUIDELINES FOR INDEPENDENT WORK STUDENTS

Discipline:	"General Surgery"
Discipline code:	GS 3305
OP name:	6B10115 "Medicine "
	6B10102" Pediatrics "
Amount of study hours/credits:	90 hours (3 credits)
Course and semester of study:	3rd year, V semester
Independent work:	9/51

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Surgery	44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"	2 p. of 12


Guidelines for independent work of students were developed in accordance with the working curriculum of the discipline (syllabus) "General Surgery" and discussed at the meeting of the department

Protocol № 10^b. 3005 2024

Head of the Department
 Candidate of Medical Sciences,
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ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Surgery	44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"	3 p. of 12

1. Topic #1: Types of antiseptics.

2. Purpose: To consolidate and expand students' knowledge about the purpose and purpose of antiseptics. Teach students to master various antiseptic techniques.

3. Tasks:

- The concept of antiseptics;
- Types of antiseptics;
- Characteristics of the main antiseptics and antibiotics;
- Fundamentals of rational antibiotic therapy, complications in the use of antibiotics and their prevention;
- Enzyme therapy for surgical infection;
- Basic methods of using antiseptics.

4. Form of implementation: Preparation of test tasks, situational tasks, abstract, presentations.

5. Completion criteria: (requirements for completing the task) see *Notes.

6. Delivery time: 1 day

7. Literature. specified at the end

8. Control: (tests, situational task attached)

1. *What is antiseptic ?*
2. *What types of antiseptics do you know?*
3. *What applies to physical antiseptics?*
4. *How is mechanical antiseptics performed?*
5. *What are the main groups of chemical antiseptics?*
6. *The main groups of antibiotics.*
7. *Side effects of antibiotics on the body.*

1. Topic # 2: Donation. Filling out medical records. Complications and reactions during переливании blood transfusion.

2. Objective: To learn the indications and contraindications for blood transfusion. Understand the mechanism of action of transfused blood. Learn how to perform direct and indirect blood transfusions. Master filling out medical records. Familiarize with the complications encountered during transfusions of artificial substitutes.


3. Tasks:

- The concept of donation;
- Indications of blood transfusion;
- Contraindications to blood transfusion;
- Direct and indirect blood transfusions;
- The presence of transfused blood;
- Registration of medical documentation.
- Indications and contraindications for pi transfusion;
- Types of complications after transfusions.

4. Form of implementation: Preparation of test tasks, situational tasks, abstract, presentations.

5. Completion criteria: (requirements for completing the task) see *Notes.

6. Delivery time: 2 days

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Surgery	44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"	4 p. of 12

7. References: listed at the end

8. Control: (tests, situational task attached)

1. *What is donation?*
2. *What are the indications and contraindications for blood transfusion?*
3. *What is the mechanism of action of transfused blood?*
4. *What methods of blood transfusion do you know?*
5. *How medical documentation is processed.*
6. *What complications occur during blood transfusions?*

1. Topic # 3: Complications of general anesthesia and local anesthesia. Types of blockades.

2. Goal: To learn to recognize the degree of anesthesia and provide timely resuscitation assistance to the patient with various complications. Get acquainted with the prevention of complications of general anesthesia and local anesthesia. Owns types of blockades.

3. Tasks:

- Early complications of general anesthesia;
- Late complications of general anesthesia;
- Complications of local anesthesia;
- Resuscitation measures for complications;
- First aid for complications of local anesthesia.
- Types of blockades.

4. Form of implementation: Preparation of test tasks, situational tasks, abstract, presentations.

5. Completion criteria: (requirements for completing the task) see*Notes.

6. Delivery time: 3 days

7. References: listed at the end

8. Control: (tests, situational task attached)


1. *What are the complications of general anesthesia?*
2. *How early and late complications of general anesthesia manifest.*
3. *What measures are taken in case of complication of general anesthesia?*
4. *How is resuscitation performed in case of complications?*
5. *Tell us about complications of local anesthesia.*
6. *Provide first aid for complications of local anesthesia.*
7. *What are the types of blockades?*

1. Topic # 4: Acute and chronic surgical infection.

2. Purpose: To introduce students to the concept of acute and chronic surgical infection. Explain to students the classification of surgical infections.

3. Tasks:

- The concept of surgical infection;
- Clinical course of surgical infection;
- Diagnosis of surgical infections;
- Classification of surgical infections;
- Etiology and pathogenesis;
- Local and general reaction of the body.

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Surgery	44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"	5 p. of 12

4. Form of implementation: Preparation of test tasks, situational tasks, abstract, presentations.

5. Completion criteria: (requirements for completing the task) see.

6. Wedof handover period: 4 days.

7. References: listed at the end

8. Control: (tests, situational task attached)

1. *Name specific types of surgical infections.*
2. *Clinical picture of acute surgical infections.*
3. *Etiology and pathogenesis of surgical infections.*
4. *Basic principles of general and local treatment.*
5. *What are the principles of prevention of acute and chronic surgical infections?*
6. *Methods of treatment of acute and chronic surgical infections.*

1. Topic # 5: Soft tissue injuries

2. Objective: To develop knowledge about the classification of soft tissue injuries. Train them to correctly diagnose soft tissue injuries. Teach the principles of first aid for soft tissue injuries.

3. Tasks:

- The concept of soft tissue damage;
- Classification of soft tissue damage;
- Closed soft tissue injuries;
- Dislocations. Classification and mechanism of dislocations;
- Providing first aid for soft tissue injuries;
- Broken bones. Classification and clinic.

4. Form of implementation: Preparation of test tasks, situational tasks, abstract, presentations.

5. Completion criteria: (requirements for completing the task) see*Notes.

6. Delivery time: 5 days

7. References: listed at the end

8. Control: (tests, situational task attached)


1. *What is soft tissue damage?*
2. *What types of soft tissue damage do you know?*
3. *Providing first aid for bruises, sprains, and lacerations.*
4. *Classification of bone fractures.*
5. *Clinical signs of open and closed bone fractures*
6. *Расскажите о мемTell us about first aid techniques for bone fractures.*

1. Subject # 6: Prolonged crushing syndrome. Principles of diagnosis and treatment.

2. Purpose: To introduce students to the concept of prolonged crush syndrome. Teach students the principles of diagnosis and treatment of long-term crush syndrome.

3. Tasks:

- The concept of prolonged crush syndrome;
- Mechanism of action of trauma;
- Etiology and pathogenesis;
- Clinical signs of prolonged crushing syndrome;
- Diagnostic methods for long-term crush syndrome;

ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Surgery	44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"	6 p. of 12


- Providing first aid for prolonged crushing.
- 4. Form of implementation:** Preparation of test tasks, situational tasks, abstract, presentations.
- 5. Completion criteria:** (requirements for completing the task) see.
- 6. Delivery time:** 6 days
- 7. References:** listed at the end
- 8. Control:** (tests, situational task attached)
 1. *Give the concept of long-term crush syndrome.*
 2. *The main pathogenetic factor of this syndrome.*
 3. *What are the main clinical signs of long-term crush syndrome?*
 4. *Describe the stages of traumatic toxicosis.*
 5. *Principles of first aid.*

1. Subject # 7: Operation. Pre- and postoperative periods.

2. Goal: To give students the concept of operation. Explain the types of surgery to students. Teach the concepts of pre-and postoperative periods. Teach the principles of patient preparation for surgery.

3. Tasks:

- The concept of an operation.
- Pre-and postoperative periods;
- Types of surgical interventions;
- Etps of the surgical operation.
- Preparing the patient for surgery;
- Observation of the patient during the operation;
- Postoperative care.
- 4. Form of implementation:** Preparation of test tasks, situational tasks, abstract, presentations.
- 5. Completion criteria:** (requirements for completing the task) see*Notes.
- 6. Deadline:** 7 days.
- 7. References:** listed at the end
- 8. Control:** (tests, situational task attached)
 1. *Give the concept of surgery: radical and palliative.*
 2. *Name the main types of operations.*
 3. *The main tasks of the doctor in the preoperative period.*
 4. *Determining the urgency of the operation.*
 5. *Name the phases of the postoperative period.*
 6. *Late complications after surgery.*

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Department of Surgery		44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"		7 p. of 12

Notes.

- **Criteria and assessments for the performance of the SRS (task completion requirements)**

Form of	work Requirements for completing tasks
Abstract	The volume of the abstract is 5-8 pages. The content includes an introduction, the main part, conclusions and suggestions, and a list of references. Requirements: literacy, clarity, concreteness, and logical consistency. Presentation of the material; persuasiveness of argumentation; brevity and accuracy of wording.
Presentation	Multimedia presentation of 8-12 slides on the topic. The use of small symbolic information (text) but meaningful meaning (with visual examples, photos, drawings and diagrams) that meet the relevance of modern times, scientific terminology. Evaluation criteria that analyze the design - the presentation design is logical, meets the requirements of aesthetics, the design does not contradict the content, diagrams and drawings are attractive, interesting, correspond to the content, and do not overlap with the text.
Test tasks задания	Preparation of 10-12 test questions on the topic, first and second level; 1) simple - one of the five answers is correct; 2) correspondence test; 3) sequence test; 4) open test; 5) combination test.
Ситуационн Situational tasks and	1-3 situational tasks are compiled on the topic. Give an example from practice, clinical situations. The text should be easy to read, interesting, and relevant to the topic.

Preparation and defense of the abstract

Tsifrovoy ekvivalent points	Total percentage content	Rule grading
0	0 -49	For non-fulfillment of the SIW
1,0	50 – 54	For the census of this work.
1.33	55-59	For the census of this work. When defending an abstract, the text reads incorrectly.
1,67	60-64	The abstract was made inaccurately and was not submitted on time, it was written independently, using less than 3 literary sources. When defending an abstract, the text reads. When answering questions, he makes gross mistakes, does not navigate the material.
2,0	65 - 69	The abstract is completed accurately and submitted on time, written independently, using at least 3 literary sources. When defending an abstract, the text reads. Hesitantly answers questions, makes fundamental mistakes.
2.33	70 - 74	The abstract was completed accurately and submitted on time, written independently, using at least 3 literature sources. When defending an abstract, the text is not self-confident. Hesitantly answers questions, makes fundamental mistakes.
2.67	75-79	The abstract was completed accurately and submitted on time, written independently, using at least 3 literature sources. Diagrams, tables and figures that do not correspond to the topic of the abstract are given. When defending an abstract, the text tells while reading, and when answering questions, it makes fundamental mistakes.

3.0	80-84	The abstract was completed accurately and submitted on time, written independently, using at least 3 literature sources. Diagrams, tables and figures corresponding to the topic of the abstract are given. When defending an abstract, the text does not read, but tells. When answering questions, it makes unprincipled mistakes.
3.33	85-89	The abstract was completed accurately and submitted on time, written independently, using at least 3 literature sources. Diagrams, tables and figures corresponding to the topic of the abstract are given. When defending an abstract, the text does not read, but tells confidently in itself. When answering questions, it makes unprincipled mistakes.
3.67	90-94	The abstract is completed accurately and delivered on time, written independently, using at least 3 literary sources. Diagrams, tables and figures corresponding to the topic of the abstract are given. When defending an abstract, the text does not read, but tells. He answered the questions hesitantly and answers all the questions correctly.
4,0	95 - 100	The abstract is completed accurately and delivered on time, written independently, using at least 3 literary sources. Diagrams, tables and figures corresponding to the topic of the abstract are given. When defending an abstract, the text does not read, but tells. Confidently, without difficulty and accurately answers all the questions asked.

Preparation and defense presentation of the topic

Tsifrovoy equilent points	Total percentage content	Rule rating
0	0-49	For non-performance of work.
1,0	50-54	For the census of this work.
1.33	55-59	For the census of this work. When defending a presentation, the text reads incorrectly.
1,67	60-64	The presentation was not delivered on time, less than 3 literary sources were used, the slides are not informative, and the speaker makes gross mistakes when answering questions if he does not orient himself in his own material.
2,0	65 - 69	The presentation was made independently, on time, the use of non-technical materials is not allowed. less than 3 literary sources, slides are not informative, and the author makes fundamental mistakes when answering questions.
2.33	70-74	The presentation was made independently, at the appointed time, using at least 3 literary sources, the slides are informative, and the author makes fundamental mistakes when answering questions.
2.67	75-79	The presentation was made independently, at the appointed time, using at least 3 literary sources, the slides are informative and non-canonical, while defending the speaker demonstrates good knowledge of the topic, makes fundamental mistakes when answering questions.
3.0	80-84	The presentation was made independently, at the appointed time, using at least 3 literary sources, the slides are informative and concise, while



		defending the speaker demonstrates good knowledge of the topic, makes unprincipled mistakes when answering questions.
3.33	85-89	The presentation was made independently, at the appointed time, using at least 3 literary sources, the slides are informative and concise, while defending the speaker demonstrates good knowledge of the topic, makes mistakes when answering questions that he corrects himself.
3.67	90-94	The presentation was made independently, at the appointed time, using at least 3 literature sources, slides are informative and designed, while defending the speaker demonstrates deep knowledge of the topic, does not make mistakes when answering questions during the discussion, responds thoughtfully with uncertainty.
4.0	95 - 100	The presentation was made independently, at the appointed time, using at least 3 literary sources, the slides are informative and designed, while defending the speaker demonstrates deep knowledge of the topic, does not make mistakes when answering questions during the discussion, answers clearly without difficulty.

Preparation and protection of test tasks.

Tsifrovoy equilent points	Total percentage content	Rule rating
0	0-49	For non-performance of work.
1.0	50 – 54	Test tasks contain at least 10 questions. Meaningless basis of the text, unclear statement of the question. Different types of responses. There is no response algorithm available. More than 50% of the correct answers were marked incorrectly.
1,33	55 – 59	
1,67	60 – 64	
2,0	65 - 69	Test tasks contain at least 10 questions. Completed on time. The basis of the test is empty. There are test tasks that are formulated vaguely, incorrectly, or incompletely. Different types of responses. There is a response algorithm. Not all correct answers are marked correctly.
2,33	70 - 74	
2,67	75 - 79	
3,0	80 – 84	Test tasks contain at least 10 questions. Completed on time. The basis of the test is informative. Test tasks are formulated clearly, correctly, and concretely. Different types of responses. There is a response algorithm. Correct answers are marked correctly.
3,33	85 - 89	
3,67	90 – 94	
		Test tasks contain at least 10 questions. Completed on time. The basis of the test is informative. Test tasks are formulated clearly, correctly, and concretely. Similar and adequate answers. There is a response algorithm. Correct answers are marked correctly.

Preparing a situational task.

Tsifrovoy equivalent points	Total percentage content	Rule rating
0	49	For non-performance of work.
1,0	50-54	Situational problem doesn't make sense. Unclear statement of the clinical situation. Doesn't match the topic. There is no response algorithm available.
1,33	55 – 59	
1,67	60 – 64	
2,0	65 - 69	Completed on time. The basis of the situational task is not meaningful. Tasks formulated vaguely, incorrectly, or incompletely. Corresponds to the topic. Not all correct answers are marked correctly.
2,33	70 - 74	
2,67	75 - 79	Completed on time. The basis of the situational task is substantial. Tasks are formulated clearly, correctly, and concretely. Corresponds to the topic. The correct answers are given correctly.
3,0	80 – 84	
3,33	85 - 89	
3,67	90 – 94	Completed on time. The basis of the situational task is substantial. Tasks are formulated clearly, correctly, and concretely. Corresponds to the topic. There is a log of difficulty. The correct answers are given correctly.


Evaluation criteria:

Traditional system	Rating according to the letter system	Numerical equivalence of score	Score Digital equivalent points
Excellent	A	4,0	95 - 100
	A-	3,67	90 – 94
Good	B+	3,33	85 - 89
	B	3,0	80 – 84
	B-	2,67	75 - 79
	C+	2,33	70 - 74
Satisfactory	C	2,0	65 - 69
	C-	1,67	60 – 64
	D+	1,33	55 – 59
	D	1,0	50 – 54
Unsatisfactory	FX	0,5	25 - 49
	F	0	0-24

Literature

Basic:

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ОҢТҮСТІК ҚАЗАҚСТАН MEDISINA AKADEMIASY «Оңтүстік Қазақстан медицина академиясы» АҚ	 SKMA -1979-	SOUTH KAZAKHSTAN MEDICAL ACADEMY АО «Южно-Казахстанская медицинская академия»
Department of Surgery		44 / 11 ()
Guidelines for independent work in the discipline "General Surgery"		11 p. of 12

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