



Non-profit educational institution
Educational-scientific-production complex
"International University of Kyrgyzstan"

Quality Management System
SYLLABUS «Oncology»
"General Medicine» ISM

**International School of Medicine
Department of "Surgical diseases"**

SYLLABUS

"Stomatology"


main educational program
in the specialty General Medicine (for foreign citizens)

graduate qualification: general practitioner

Full-time education

| | |
|--------------------------|----|
| Year | 4 |
| Semester | 8 |
| Credit / Exam (semester) | 2 |
| Total Curriculum Credits | 2 |
| Total curriculum hours | 60 |

Bishkek 2022

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1. The work program of the academic discipline

1.1. Explanatory note

Mission of ISM IUK - *training of competent specialists in the field of medicine, corresponding to international standards and traditions of medical ethics, ready for continuous professional growth using modern achievements of science and practice, to solve public health problems.*

Annotation of the academic discipline

is the branch of medicine focused on the teeth, gums, and mouth. It consists of the study, diagnosis, prevention, management, and treatment of diseases, disorders, and conditions of the mouth, most commonly focused on dentition (the development and arrangement of teeth) as well as the oral mucosa

The purpose and objectives of the discipline


The purpose of the discipline

The purpose of teaching is to teach students the methods of clinical examination of the oral cavity, the main methods of laboratory and instrumental examination, mastering by students special methods of diagnosis and treatment, the most common diseases of the oral diseases. And the provision of emergency dental care. Development of professional competencies in the preparation of a specialist through the formation of theoretical and practical skills in the diagnosis and prevention of major diseases of the oral cavity, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients).

Discipline objectives:

On completion of the course, the student should be

- familiarity with the basic methods of examination in the mouth.
- identification of the major dental diseases - identification and elimination of risk factors for dental diseases;
- the development of the students methods of organization and implementation of preventive measures among the various population groups in the individual and group level, including in patients with various somatic diseases (cardiovascular system, blood disorders, diabetes, oncology patients);

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- be able to account for dental and occlusal development, the structure of the tooth, the difference between primary and permanent teeth and their most common morphological element.

- development of students of dental education methods and implementation of motivating people to maintain oral health;

Place of discipline in the structure of OOP (prerequisites, postrequisites)

The discipline "Stomatology" is included in the basic part of the professional cycle of the EUP UPPK "MUK" MShM for the specialty "General Medicine" (code 560001). This discipline is studied by students of the specialty General Medicine (for foreign citizens) and is included in the mandatory scope of the studied disciplines of the State Educational Institution of Higher Professional Education.

For the successful development of this discipline, students must master the following disciplines:

biology

general chemistry

organic chemistry

physics

therapy

pediatrics

oncology

infectious diseases


epidemiology

medical rehabilitation

Competencies of students, formed as a result of mastering the discipline, the planned results of mastering the discipline -

Graduate in the specialty "General Medicine" with the assignment of the qualification of a specialist "Doctor general practice" in accordance with the State Educational Institution of Higher Professional Education and PLO and the tasks of professional activity, must have the following professional competencies:

| Code | Content of competence |
|-------|---|
| SPC-3 | Able to analyze medical information based on the principles of evidence-based medicine; |

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|------|--|
| IC-4 | Willingness to work with information from a variety of sources; |
| PC-6 | Ability to apply up-to-date information about public health indicators at the level of Medical and Preventive Treatment Institutions |

After mastering the discipline "Stomatology" student:

will know:

- Conduct an examination of the patient: identify complaints, collect anamnesis, conduct an objective study and determine indications for use the most accessible and common research methods.
- Make a diagnosis.
- Make a plan for the treatment and rehabilitation of the patient.
- Treat the most common dental conditions
- Conduct sanitary and educational work among children and adolescents, parents.

will be able to:

- To clinical examination of a healthy patient and diseases of the maxillofacial region at different ages.
- Diagnose of major dental diseases (caries, pulpitis, periodontitis, non-carious lesions, trauma to the teeth and jaws, anomalies and deformities of the dentition, etc., as well as methods of their treatment and prevention.

will own:


- identify etiological factors leading to the development of caries disease and carious tooth hard tissue diseases of the oral mucosa, periodontal tissues and their complications;
- to carry out a professional oral hygiene based on the performance indices of hygiene;
- inspection and assessment of oral health on the basis of performance indices;
- diagnostic techniques use state of solid teeth tissues oral mucosa and periodontal tissues;

will be able to analyze

- data of physical examination of a patient of various ages (examination, palpation, percussion, dental X-ray, etc.) when making a clinical diagnosis;

will be able to manage

- terminology classification of dental hard tissue diseases without caries dental diseases of the oral mucosa and periodontal tissues;
- methods of inspection of the mouth;

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- methods and means of dental education.

1.2. Recommended educational technologies

For the development of students of the academic discipline "Stomatology", obtaining knowledge and forming professional competencies, the following educational technologies are used:

- lecture with elements of discussion, problem statement;
- lectures - electronic presentations;
- analysis of specific situations;
- role play "doctor - patient";
- lecture-visualization,
- problem lecture,
- lesson-conference,
- training,
- debate,
- brainstorm,
- small group method,
- classes using simulators, simulators,
- analysis of clinical cases,
- situational tasks,
- interactive atlases,
- participation in scientific and practical conferences, congresses, symposia,
- educational research work of a student,
- conducting subject Olympiads,
- preparation of written analytical works,
- preparation and defense of abstracts,

1.3. The scope of the discipline and types of educational work

| According to the curriculum 2019 | 8 sem. | Total | |
|----------------------------------|--------|----------|------------|
| | | in hours | in credits |
| Classroom work | 60h | 60 | 2 |
| Lectures | 18h | 18 | |
| Practical lessons | 18h | 18 | |
| Independent work | 24 | 24 | |
| CPC | 12 | 12 | |
| SRSP | 12 | 12 | |
| Final control type | offset | | |



1.4. Discipline structure

1.4.1. Thematic plan for the study of the discipline

8 semester 4 course

| No | Name sections and topics disciplines (lectures and practical exercises) | Auditory lessons | | | | Total hours on classroom work | SRSP | Student independent | Formed competence | Used educational technologies, methods and methods of teaching | Dummies | Forms of current and midterm control academic performance |
|----|---|------------------|----------|-------------------|------------------|-------------------------------|------|---------------------|-------------------|--|---------|---|
| | | lectures | seminars | practical lessons | laboratory works | | | | | | | |
| | Module 1 | | | | | | | | | | | T |
| 1 | Caries, methods of examination, etiology, classification, diagnosis, treatment methods. | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Oral and written questioning |
| 2 | Etiology, pathogenesis of inflammation dental pulp inflammation. Classification of pulp diseases. Methods of diagnostics of inflammation of the tooth pulp. | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Oral and written questioning |




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|---|--|---|--|---|--|-------|---|---|------------------|-------------------------------|--|---|
| 3 | Etiology, pathogenesis of inflammation periapical tissues. Classification of periodontal disease. Diagnostic methods of periodontitis. | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Oral and written questioning |
| 4 | Orthopedics, introduction to orthopedics, classification of prostheses, diagnosis in orthopedics, goals and objectives. | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Oral and written questioning Using computer programmes |
| 5 | Types of prosthetic constructions, indications, contraindications, selection criteria, metal-ceramic crowns. | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | small group method, discussion type forum... analysis of clinical cases. Oral and written questioning |
| 6 | Diseases of the oral mucosa. Etiology, pathogenesis. Basic methods of diagnosis and treatment. | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Test. |




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|---|---|----|--|----|--|-------|----|----|------------------------|-------------------------------|--|---|
| 7 | Surgical Dentistry, Introduction. Classification of diseases Tooth extraction surgery | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Testing. Test. Assessment of the development of practical skills (abilities). Solving situational tasks |
| 8 | Oncostomatology. Precancerous and cancerous diseases. Disease classification | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | analysis of clinical cases. Using computer training programs |
| 9 | Periodontology introduction to the section. Periodontal structure, periodontal tissue physiology, their diseases and classification | 1 | | 1 | | three | 1 | 1 | SPC-3, IC-4 PC-6 | lecture using video materials | | small group method, discussion type forum |
| | Total hours by discipline: | 18 | | 18 | | 36 | 12 | 12 | | | | |

Abbreviation for designations of educational technologies, methods and methods of teaching: traditional lecture (L), lecture-visualization (LP), problem lecture (LP), lecture-press conference (LPK), lesson-conference (LC), training (T), debate (D), brainstorming (MSH), master class (MC), "round table" (CC), activation of creative activity (ATD), regulated discussion (RD), forum type discussion (F), business and role-playing educational game (CI, RI), small group method (MG), classes using

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simulators, simulators (TP), computer simulation (CS), analysis of clinical cases (CS), preparation and protection of medical history (IB), use of computer training programs (COP), interactive atlases (IA), attending medical conferences, consultations (VC), participation in scientific and practical conferences (NPK), congresses, symposia (Sim), educational and research work of a student (UIRS), conducting subject Olympiads (O), preparation of written analytical works (AR), preparation and defense of abstracts (P), design technology (PT), excursions (E), distance educational technologies (DOT).


Reducing the forms of current and midterm monitoring of academic performance: *T - testing, Pr - assessment of the development of practical skills (abilities), 3C - solving situational problems, KP - control work, K3 - control task, IB - writing and protecting a case history, CL - writing and protecting a curatorial sheet, R - writing and defense of the abstract, C - interview on control questions, D - preparation of a report, etc.*

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1.4.2. Organization of students' independent work

8 semester 4 course


| No . | The topic of the student's independent work: | SRS task | Recommended literature | Timing surrender (week number) |
|------|--|------------------------|---|--------------------------------|
| | The tooth pulp. Histological structure, main functions. | Abstract, presentation | 1. Textbook of OPERATIVE DENTISTRY third edition. Editors Nisha Garg, Amit Garg The Edition 2015 2. Diagnosis and Treatment Planning in Dentistry third edition 2017 Editors Stephen J.Stefanac DDS, MS Samuel P. Nesbit DDS, MS 3. Dental Pulp Tissue Regeneration. Douglas Herrera 2013 4. Пульпит Н.Н Бондаренко 2014 | 1 |
| | The dentin of the tooth. Histological structure, chemical composition, physiological properties. | Abstract, presentation | Textbook of OPERATIVE DENTISTRY third edition. Editors Nisha Garg, Amit Garg The Edition 2015 Dental Caries The Disease and its Clinical Management 2015 Ole Fejerskov | 2 |

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|--|---|------------------------|---|---|
| | | | Essentials of Dental Caries 4 th Edition 2017 Edwinna Kidd Understanding Dental Caries 2016 Michel Goldberg Кариес зубов Фицев С.Б. 2016 год выпуска | |
| | Periodontium. Tissue structure and function of the periodontium | Abstract, presentation | 1. Textbook of OPERATIVE DENTISTRY third edition. Editors Nisha Garg, Amit Garg The Edition 2015 2. Diagnosis and Treatment Planning in Dentistry third edition 2017 Editors Stephen J.Stefanac DDS, MS Samuel P. Nesbit DDS, MS 3. Carranza's clinical Periodontology 2014 Newman Takey 4. Endodontics Review Brooke Blithcel 2016 5. Endodontics: Principles and Practice 2020 6 th Edition Mahmoud Torabinejad | 3 |
| | Saliva as the biological environment of the oral cavity. Chemical composition, changes under the influence of various factors | Abstract, presentation | Textbook of OPERATIVE DENTISTRY third edition. Editors Nisha Garg, Amit Garg The Edition 2015 | 4 |

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|--|---|------------------------|--|---|
| | | | Dental Caries The Disease and its Clinical Management 2015 Ole Fejerskov Essentials of Dental Caries 4 th Edition 2017 Edwinna Kidd Understanding Dental Caries 2016 Michel Goldberg Кариес зубов Фицев С.Б. 2016 год выпуска Harrison's Manual of Oncology, 2nd ed. Bruce A. Chabner, Dan L. Longo. | |
| | Anaphylactic shock. | Abstract, presentation | Textbook of OPERATIVE DENTISTRY third edition. Editors Nisha Garg, Amit Garg The Edition 2015 Dental Caries The Disease and its Clinical Management 2015 Ole Fejerskov Essentials of Dental Caries 4 th Edition 2017 Edwinna Kidd Understanding Dental Caries 2016 Michel Goldberg Кариес зубов Фицев С.Б. 2016 год выпуска. | 5 |
| | Anesthesia in therapeutic dentistry. Indications, methods of treatment. | Abstract, presentation | 1. Dental CT: Third Eye in Dental Implants. 2013 by Pratik Dedhia & Prashant P. Jaju & Sushma P. Jaju & Prashant V. Suvarna | 6 |

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|--|--|--|---|--|
| | | | 2. Textbook of Operative Dentistry. 2015 Nisha Garg/ Amit Garg 3. Minimally invasive dental implant surgery. 2016 by Daniel R. Cullum & Douglas Deporter 4. Contemporary Oral and Maxillofacial Surgery. 2018 by James Hupp & Myron Tucker & Edward Ellis 5. Essentials of Oral and Maxillofacial Surgery 2014 by M. A. Pogrel & L. Andersson (eds.) | |
|--|--|--|---|--|

1.4.3. Evaluative Assessment Tools


Current and milestone (modular) control

Current control of students' knowledge represents:

oral questioning;
solving situational tasks;
control task; test;
checking the completion of written homework;
checking abstracts, reports, presentations.

Abstract topics:

1. Prevention of HIV infection, viral hepatitis.


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2. Microflora of the oral cavity in the norm and pathology.
3. Protective mechanisms of the oral cavity. Non-specific and specific factors of protection.
4. Organization of equipment of a dental office. Dental equipment.
5. Types of dental instruments. 6.
6. Organization of the work of the dentist at the therapeutic reception. Medical history, accounting and reporting documentation. Quantitative and qualitative indicators of the department.
7. Percussion, palpation, thermometry, dental mobility, electroodontodiagnostics, radiography, probing.
8. Mineralization, demineralization, enamel remineralization, factors.
9. X-ray diagnosis. Differential diagnosis, EOD.
10. Medical records, significance.
11. Sterilization of dental instruments.
12. Dental instruments. Its care and types of sterilization.
13. Methods of examination of the patient.
14. Anatomy of the teeth. Histology of dental tissues.
15. Classification of restorative materials. The main requirements for them.

COURSE POLICY AND EVALUATION CRITERIA:

| Type of control (current, milestone, final) | Control form | Assessment of learning outcomes |
|--|--|--|
| Attendance | For one missed lesson minus 2 points | 20 points |
| Current control | Oral survey, written work | 20 points |
| IWS+IWW | Performing assignments, work with literature | 20 points |
| Milestone control (module submission) | Testing, control tasks | 40 points |
| Final control (differential test) | Conversation, examination (test.edu.kg) | 100 points |

Scale of correspondence between grades and scores on the final control (exam)

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| Score | Grade |
|--------------|------------------|
| 90-100 | «excellent» |
| 76-89 | «good» |
| 60-75 | «satisfactory» |
| 0-59 | «unsatisfactory» |