INTERNATIONAL HIGHER SCHOOL OF MEDICINE

Department of Special clinical disciplines

SYLLABUS
Dentistry
2026-2027 academic year
For students of medical faculty 5th Course 9th Semester
2 credits (60 h, including auditorial - 36 h, independent work – 24 h)

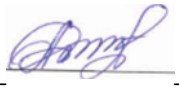
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The Syllabus is considered
at the meeting of the department of Special clinical disciplines
Protocol № _1_ dated _28.08.2026__

Head of the department________Maktybaeva D.A.

Course Objective: Mastering knowledge of dental pathology, the dental and jaw system, as well as the principles of examining patients with various dental pathologies, making a preliminary clinical diagnosis, drawing up an examination plan, skills and abilities to compare data from clinical and diagnostic examinations, drawing up a treatment plan for the patient and disease prevention.

After study of the discipline the student must:

Knowledge:

1. Compliance with the rules of asepsis and prevention of the spread of infectious diseases.
2. Factors adversely affecting public health.
3. Causes and conditions for the occurrence and development of dental diseases.
4. Basic principles of prevention of diseases of the maxillofacial area.
5. Collection of anamnesis, principles of examination of the dental system with identification of the main symptoms of its damage (caries, pulpitis, periodontitis, inflammatory diseases of the maxillofacial area, trauma, diseases of the oral mucosa).

Skill:

1. Providing first aid for diseases of hard tissues of teeth and periodontium.
2. Primary prevention of dental diseases.
3. Identify unfavorable factors that contribute to the deterioration and development of various dental diseases.
4. Apply in practice the basic measures aimed at preventing diseases of the hard tissues of teeth and periodontium.
5. Determination of indications for inpatient treatment of patients. Referring patients for consultation to other specialists.
6. Evaluate data from oral examination, radiographs, sialograms, orthopantomography.

Attitude:

1. Methods of application anesthesia, infiltration anesthesia on the soft tissues of the maxillofacial area, infiltration anesthesia on the alveolar process.
2. Preparation of information leaflets, messages on the prevention and control of infectious and non-infectious diseases.
3. Skills in analyzing and correcting a set of preventive measures and developing a healthy lifestyle.
4. Local methods of stopping bleeding after tooth extraction (tamponade and suturing of the hole).
5. Applying bandages to facial wounds. Temporary immobilization for fractures of teeth and facial bones.
6. Primary surgical treatment of wounds of soft tissues of the face, not accompanied by the formation of defects
7. Provide emergency medical care to dental patients (for acute toothache, inflammation, trauma to teeth, tissues of the maxillofacial area, fainting, pain syndromes of various etiologies)
8. Organize dispensary observation of dental patients.
9. Preparing the patient for tooth extraction surgery.

Pre-requisites. Macro- and microanatomy, normal physiology, pathology (pathological anatomy, pathological physiology), microbiology, virology and immunology, basic pharmacology, radiation diagnostics, propaedeutics of internal diseases

Post-requisites. Infectious diseases, polyclinic therapy, polyclinic surgery, family medicine.

THEMATIC PLAN OF LECTURES

№	Theme of lecture	Hours	Date
1	Stomatology (Dentistry) Subject and tasks. Development history. Basic problems of Dentistry& Maxillo-Facial Surgery and its importance for General Medical doctor.	2	01.09.26
2	Dental caries. Epidemiology, clinic, diagnosis, basics of treatment and prophylaxis. Dental caries complications.	2	02.09.26
3	Anesthesia in Dentistry. Teeth extraction	2	03.09.26
4	Periodontium and oral mucosa inflammatory diseases. Sialodenitis. Inflammatory diseases of the Maxillo-Facial area	2	04.09.26
5	Traumatology of the Maxillo-Facial area.	2	05.09.26
6	Temporo-Mandibular Joint (TMJ) diseases	2	07.09.26

7	Non-malignant and malignant tumors of Maxillo-Facial area. Clinical, diagnostical and treatment peculiarities.	2	08.09.26
8	Congenital defects and deformations of the Maxillo-Facial area. Gained defects and deformations of the Maxillo-Facial area. Basics of plastic surgery.	2	09.09.26

THEMATIC PLAN OF PRACTICAL CLASSES

№	Theme of practical class	Hours	Date
1	Principles of Dental Service in urban and rural areas. Methods of investigation in Dentistry & Maxillo-Facial Surgery	2	Accordingly to the schedule
2	Dental diseases: Caries, Pulpitis, Periodontitis.	2	Accordingly to the schedule
3	Anesthesia in Dentistry. Teeth extraction.	2	Accordingly to the schedule
4	Oral mucosa diseases. Sialodenitis – inflammation of Salivary glands. Odontogenous inflammation diseases of Maxillo-Facial area.	2	Accordingly to the schedule
5	Module № 1	2	Accordingly to the schedule
6	Teeth and Face skeleton fractures. Clinical symptoms, Diagnosis, treatment.	2	Accordingly to the schedule
7	TMJ Diseases	2	Accordingly to the schedule
8	MFA Nonmalignant and Malignant diseases. Clinical symptoms, Diagnosis, Principles of treatment.	2	Accordingly to the schedule
9	Congenital and gained defects and deformations of the Maxillo-Facial area. Clinical symptoms, Diagnosis, Principles of treatment.	2	Accordingly to the schedule
10	Module № 2	2	Accordingly to the schedule

THEMATIC PLAN OF INDEPENDENT WORK OF STUDENTS

Unit №	Theme of independent work	Hours	Date
1	Principles of dental service. Insurance and private dentistry	2	Accordingly to the schedule
2	Dental caries. Etio-pathogenetic rationale for the prevention of dental caries	2	Accordingly to the schedule
3	Pulpitis. Etiology. Pathogenesis. Clinic. Treatment. Periodontitis. Etiology. Pathogenesis. Clinic. Treatment	2	Accordingly to the schedule
4	Anesthesia in dentistry. Teeth extraction technique	2	Accordingly to the schedule
5	Oral mucosa diseases. Candidiasis and stomatitis. Sialadenitis. Etiology. Pathogenesis. Clinic. Treatment	2	Accordingly to the schedule
6	Odontogenic inflammatory diseases of maxillo-facial area. Osteomyelitis of the jaws. Complications and prevention	2	Accordingly to the schedule
7	Trauma of the maxillo-facial bones	2	Accordingly to the schedule
8	Temporo-mandibular joint diseases. Arthritis of the temporo-mandibular joint. Arthrosis of the temporo-mandibular joint	2	Accordingly to the schedule
9	Benign neoplasms of the maxillo-facial area. Features of the clinic, diagnosis and treatment of the maxilla-facial tumors	2	Accordingly to the schedule

10	Malignant neoplasms of the maxillo-facial area. Features of the clinic, diagnosis and treatment of the maxilla-facial tumors	2	Accordingly to the schedule
11	Congenital and acquired defects and deformations of the maxillo-facial area	2	Accordingly to the schedule
12	Principles of plastic surgery of the maxillo-facial area	2	Accordingly to the schedule

Recommended reading for the discipline:

Basic:

1. Clinical Textbook of Dental Hygiene and Therapy, 2nd Edition Susanne Noble (Editor), Wiley-Blackwell. – 2012.
2. Giles McCracken. Master Dentistry V2. Restorative Dentistry, Paediatric Dentistry and Orthodontics. Elsevier. – 2021.
3. Christine French Beauty. Community Oral Health Practice for the Dental Hygienist. Elsevier. – 2021.
4. Paul Coulthard. Master Dentistry: Volume 1: Oral and Maxillofacial Surgery, Radiology, Pathology and Oral Medicine. Elsevier. – 2022.
5. Frommer PW. Frommer's Radiology for the Dental Professional. Elsevier. – 2018.

Additional:

1. Clinical Problems in Dentistry: 50 OSCEs and SCRs for the Post Graduate Dentist. Mosby. – 2013.
2. Rashmi G. S. Phulai. Textbook of Dental Anatomy, Physiology and Occlusion. Jaypee Broth. Medical Pub. – 2014.
3. Nisha Garg. Textbook of Preclinical Conservative Dentistry. Jaypee Broth. Medical Pub. – 2017.

Grading policy and procedures for all types of work

For the period of studying the discipline, the student gains points for the relevant parameters (per unit):
current score - 40 points
independent work - 20 points
control score (final assessment of knowledge per unit) - 40 points
Maximum score - 100 (40+20+40)

Grading system for student's achievements

Grading criteria per discipline				
Maximum score	Intervals			
	«unsatisfactory»	«satisfactory»	«good»	«excellent»
Current control – 40	0-23	24-30	31-35	36-40
Interval description	Does not know a significant part of the program material, makes significant mistakes, and cannot cope with practical tasks.	Knowledge of only basic material, significant difficulties in completing practical tasks.	High level of knowledge, skills, abilities, without significant inaccuracies.	High, advanced level of knowledge, skills, abilities, without inaccuracies.
Independent work – 20	0-11	12-15	16-17	18-20
Interval description	The independent work of students is not completed in accordance with the topic; during the presentation, the student makes critical errors.	Students' independent work is partially completed; during the presentation, the student makes some mistakes.	Students' independent work is completed in accordance with topics and instructions, and does not allow significant inaccuracies during presentation.	Students' independent work is completed in accordance with the topics and instructions at a high level; during the presentation, the student confirms knowledge of the material.

Control work (module) – 40	0-23	24-30	31-35	36-40
Interval description	The student answered correctly only 0-23 test items out of 40	The student correctly answered 24-30 test items out of 40	The student correctly answered 31-35 test items out of 40	The student correctly answered 36-40 test items out of 40

Conduct Policy: (lateness, absence, behavior in the auditorium, late submission of work).

- Punctuality and completion of tasks.
- Mandatory attendance of classes.
- Attending class in a clean medical uniform.
- Eliminating conversations on a cell phone in the classroom.
- Active participation in the learning process.
- Doing homework on time.
- Academic detention at the time specified by the teacher.

For violations of the Conduct Policy, the total points for discipline might be reduced to 1-10 points.

Academic Ethics Policy.

- Be tolerant, respect the opinions of others.
- Formulate objections in the correct form.
- Constructively support feedback in all classes.
- Plagiarism and other forms of dishonest work are unacceptable. Plagiarism includes the following: the absence of references when using printed and electronic materials, quotes, thoughts and works of other authors or students.
- Prompting and cheating during tests, exams, classes is unacceptable as well as passing an exam for another student, unauthorized copying of materials.

For violations of the Academic Ethics Policy, the total points for the discipline may be reduced to 1-10 points.

Guidelines for the lessons of the discipline

Key questions covered in lesson 1. Principles of Dental Service in urban and rural areas. Methods of investigation in Dentistry & Maxillo-Facial Surgery.

1. The situation of Dental service organisation in the world and the Southeast Asian region of WHO.
2. Factors affecting the epidemic of dental varies: the socio-economic development of countries, prophylactic measures, treatment, rehabilitation.
3. The urgency of the problem of dental insurancein India.
4. The strategic plan "Caries prophylaxis" in India.
5. Vision.
6. Goals
7. Tasks.

Recommended reading for the class:

1. Christine French Beatty. Community Oral Health Practice for the Dental Hygienist - 4th ed. Elsevier Science. – 2017. – 18-78p.
2. Gluck G., Morganstein W. M. Jong's Community Dental Health - 5th ed. C. V. Mosby Co. – 2010. – 15-90p.
3. Kimbrough V., Henderson K. Oral Health Education - 06 ed 12-56p.
4. Christensen G. J. Buyer's Guide to Dentistry - 94 ed. – C. V. Mosby Co. – 1994. – 11-75p.
5. Sroda R. Nutrition for Healthy Mouth - 2nd ed. - Lippincott-Raven . – 2010. – 15-96p.

Key questions covered in lesson 2. Dental diseases: Caries, Pulpitis, Periodontitis.

1. Caries. Etiology, clinic, treatment
2. Pulpitis. Etiology, clinic, treatment
3. Periodontitis. Etiology, clinic, treatment

Recommended reading for the class:

1. Nagel R. Cure Tooth Decay: Heal and Prevent Cavities with Nutrition, 2nd Edition Paperback – November 11, 2010. – 32-45p
2. Terry D. A. Esthetic and Restorative Dentistry: Material Selection and Technique 3rd Ed. – Quintessence. – 2016. – 23-50p.
3. Newman and Carranza's Clinical Periodontology. - 13th Ed. – Saunders. – 2016. – 23-62p.

Key questions covered in lesson 3. Anesthesia in Dentistry. Teeth extraction.

1. Anesthesia in dentistry

2. Teeth extraction

Recommended reading for the class:

1. Nagel R. Cure Tooth Decay: Heal and Prevent Cavities with Nutrition, 2nd Edition Paperback – November 11, 2010. – 32-45p
2. Terry D. A. Esthetic and Restorative Dentistry: Material Selection and Technique 3rd Ed. – Quintessence. – 2016. – 23-50p.
3. Newman and Carranza's Clinical Periodontology. - 13th Ed. – Saunders. – 2016. – 23-62p.

Key questions covered in lesson 4. Oral mucosa deseases. Sialodenitis – inflammation of salivary glands. Odontogenous inflammation diseases of Maxillo-Facial area.

1. Oral mucosa diseases. Ethiology , clinical picture, classification, treatment
2. Candidiasis. Ethiology , clinical picture, classification, treatment
3. Stomatitis. Ethiology , clinical picture, classification, treatment
4. Salivary glands diseases. Ethiology , clinical picture, classification, treatment
5. Sialodenitis. Ethiology , clinical picture, classification, treatment
6. Odontogenic periostitis. Etiology, clinical picture, treatment.
7. Odontogenic osteomyelitis. Etiology, clinical picture, treatment.
8. Odontogenic abscesses. Etiology, clinical picture, treatment.
9. Odontogenic phlegmonas. Etiology, clinical picture, treatment.

Recommended reading for the class:

1. Oral Diseases. Textbook and Atlas. - Editors**:** Lotti**,** Torello, Parish**,** Lawrence C., Rogers, Roy S.III (Eds.). – Springer – Verlag. – Berlin Heidelberg. – 1999. – 33-72p.
2. Odell. E. W. Cawson's Essentials of Oral Pathology and Oral Medicine. Elsevier. – 2017. – 23-44p.
3. Deborah Greenspan DS John S. Greenspan HIV-related oral disease. – Lancet. - Vol. 348, Issue 9029, 14 Sept. 1996, P. 729-733
4. David A. Mitchell , Laura Mitchell. Oxford Handbook of Clinical Dentistry. – Oxford University Press. - Oxford, UK. – 2017. – 48-96p.

Lesson 5. Module №1.

Present first unit independent work

Repeat all topics of the first unit, including lectures

1. Principles of dental service
2. Dental diseases
3. Anesthesia, teeth extraction
4. Oral mucosa diseases
5. Odontogenous inflammation diseases

Module is taken only once, missing module reduces your total unit mark for 40 points (your control score)

Key questions covered in lesson 6. Teeth and Face skeleton fractures. Clinical symptoms, Diagnosis, treatment.

1. Teeth fractures.
2. Etiology of the teeth fractures.
3. Clinical symptoms, diagnosis, treatment.
4. Face skeleton fractures.
5. Etiology of the face skeleton fractures.
6. Clinical symptoms, diagnosis, treatment.

Recommended reading for the class:

1. Oral Diseases. Textbook and Atlas. - Editors: Lotti**,** Torello, Parish, Lawrence C., Rogers, Roy S.III (Eds.). – Springer – Verlag. – Berlin Heidelberg. – 1999. – 123-142p.
2. Raymond Fonseca H. Dexter Barber Michael Powers. David E. Frost. Oral and Maxillofacial Trauma. - 4th Ed. – Saunders, London. – 2012. – 91-112p.
3. Odell. E. W. Cawson's Essentials of Oral Pathology and Oral Medicine. Elsevier. – 2017. – 123-144p.
4. David A. Mitchell , Laura Mitchell. Oxford Handbook of Clinical Dentistry. – Oxford University Press. - Oxford, UK. – 2017. – 181-236p.
5. Crispian Scully. Churchill's Pocketbooks Clinical Dentistry. – 4-th Ed. Elsevier Health Sciences. - CHURCHILL LIVINGSTONE. – London, UK. – 2016. – 371-384p.
6. John Laszlo. Clinical Problems in Dentistry : 50 Osces and Scrs for the Post Graduate Dentist. - Xlibris. – London, New York. – 2013. – 376- 439p.

Key questions covered in lesson 7. Temporo-Mandibular Joint diseases. Clinical, diagnostical and treatment peculiarities.

1. Anatomy of the TMJ.
2. TMJ arthritis. Etiology, pathogenesis. Clinical symptoms, diagnosis, treatment.
3. Arthrosis of the TMJ. Etiology, pathogenesis. Clinical symptoms, diagnosis, treatment.

4. Ankylosis of the TMJ. Etiology, pathogenesis. Clinical symptoms, diagnosis, treatment.
5. Modern methods of diagnosis and treatment of TMJ diseases.

Recommended reading for the class:

1. Booth P.W., Schendel S.A., Hausamen J-E Maxillo-Facial Surgery. Vol. 1. – London, Churchill Livingstone. – 1999. – 191-234p.
2. Booth P.W., Schendel S.A., Hausamen J-E Maxillo-Facial Surgery. Vol. 2. – London, Churchill Livingstone. – 1999. – 1187-1234p.
3. Cawson R.A., Eveson J.W. Oral Pathology and Diagnostics. Color Atlas with integrated text. – London, Gower Medical Publisher. – 1997. – 1127- 1167p.
4. Crispian Scully. Churchill's Pocketbooks Clinical Dentistry. – 4-th Ed. Elsevier Health Sciences. - CHURCHILL LIVINGSTONE. – London, UK. – 2016. – 94-112p.
5. "A pocket manual of differential diagnosis" Stephen N.Adler, Mildred Lam, 2001
6. R. T. Ross, Lewis P. Rowland "How to Examine the Oro-facial System" 4th ed.
7. www.dentopat.dote.hu
8. www.emedicine.com/neuro
9. www.vh.org/adult
10. www.dentoexam.com

Key questions covered in lesson 8. Non-malignant and malignant tumors of Maxillo-Facial area. Clinical, diagnostical and treatment peculiarities.

1. MFA malignant and non-malignant tumors. Etiology, pathogenesis. Clinical symptoms, Diagnosis, treatment.
2. MFA Precancerous diseases. Clinical symptoms, Diagnosis, treatment.
3. MFA malignant and non-malignant tumors. Principles of MFA tumors treatment

Recommended reading for the class:

1. Booth P.W., Schendel S.A., Hausamen J-E Maxillo-Facial Surgery. Vol. 1. – London, Churchill Livingstone. – 1999. – 191-234p.
2. Booth P.W., Schendel S.A., Hausamen J-E Maxillo-Facial Surgery. Vol. 2. – London, Churchill Livingstone. – 1999. – 1187-1234p.
3. Cawson R.A., Eveson J.W. Oral Pathology and Diagnostics. Color Atlas with integrated text. – London, Gower Medical Publisher. – 1997. – 1127- 1167p.
4. Crispian Scully. Churchill's Pocketbooks Clinical Dentistry. – 4-th Ed. Elsevier Health Sciences. - CHURCHILL LIVINGSTONE. – London, UK. – 2016. – 94-112p.
5. "A pocket manual of differential diagnosis" Stephen N.Adler, Mildred Lam, 2001
6. R. T. Ross, Lewis P. Rowland "How to Examine the Oro-facial System" 4th ed.

Key questions covered in lesson 9. Congenital and gained defects and deformations of the Maxillo-Facial area.

1. Congenital and gained defects and deformations of the Maxillo-Facial area. Clinical symptoms, Diagnosis,
2. Principles of treatment of Congenital and gained defects and deformations of the Maxillo-Facial area.
3. Organization, prophylaxis, principles and terms of operative and orthodontic treatment of Congenital and gained defects and deformations of the Maxillo-Facial area.

Recommended reading for the class:

1. Lucia Giovannelli Giuseppina Campisi Anna Lama Ornella Giambalvo John Osborn Valerio MargiottaPietro Ammatuna. Human Papillomavirus DNA in Oral Mucosal Lesions. // The Journal of Infectious Diseases, Vol. 185, Issue 6, 15 March 2002, P. 833–836.
2. The Prevention of Oral Disease. editor: John J. Murray,June H Nunn,James G Steele. – Oxford University press. – Oxford, New York. – 2003. – 21-76p.

Lesson 10. Module №2.

Present second unit independent work

Repeat all topics of the first unit, including lectures

1. Trauma of MFA
2. TMJ diseases
3. Tumor of MFA
4. Congenital and acquired defects and deformations of MFA

Module is taken only once, missing module reduces your total unit mark for 40 points (your control score)

Methodological instructions for the implementation of independent work on the discipline

Unit №	Theme of independent work	Instructions
1	Principles of dental service. Insurance and private dentistry	Search on the internet latest articles of principles of dental service. Take short notes on key points. Prepare presentation.

2	Dental caries. Etio-pathogenetic rationale for the prevention of dental caries	Draw up a tooth anatomy. Search on the internet classification of the dental caries. . Prepare presentation.
3	Pulpitis. Etiology. Pathogenesis. Clinic. Treatment. Periodontitis. Etiology. Pathogenesis. Clinic. Treatment	Read about causes and forms of pulpitis. Take notes. Prepare presentation.
4	Anesthesia in dentistry. Teeth extraction technique	Search on the internet types of anesthesia in dentistry and read about teeth extraction technique. Prepare presentation.
5	Oral mucosa diseases. Candidiasis and stomatitis. Sialadenitis. Etiology. Pathogenesis. Clinic. Treatment	Read about classification of oral mucosa diseases. Search on the internet causes of the candidiasis and stomatitis. Take notes. Take notes about etiology and clinic of sialodenitis. Prepare presentation.
6	Odontogenic inflammatory diseases of maxillo-facial area. Osteomyelitis of the jaws. Complications and prevention	Draw up a table with classification of odontogenic inflammatory diseases. Search on the internet and read about complications and profilaxis of the osteomyelitis. Prepare presentation.
7	Trauma of the maxillo-facial bones	Take notes about etiology and clinic of trauma of the maxillo-facial area. Prepare presentation.
8	Temporo-mandibular joint diseases. Arthritis of the temporo-mandibular joint. Arthrosis of the temporo-mandibular joint	Find on the internet causes of TMJ diseases. Read about causes and treatment of arthritis and arthrosis of the temporo-mandibular joint. Prepare presentation.
9	Benign neoplasms of the maxillo-facial area. Features of the clinic, diagnosis and treatment of the maxilla-facial tumors	Search on the internet articles about benign neoplasms of the maxillo-facial area. Prepare presentation.
10	Malignant neoplasms of the maxillo-facial area. Features of the clinic, diagnosis and treatment of the maxilla-facial tumors	Take notes about malignant neoplasms of the maxillo-facial area. Prepare presentation.
11	Congenital and acquired defects and deformations of the maxillo-facial area	Read about classification of congenital defects and deformations of the maxillo-facial area. Prepare presentation.
12	Principles of plastic surgery of the maxillo-facial area	Read about classification of acquired defects and deformations of the maxillo-facial area. Search on the internet latest articles about plastic surgery of the maxillo-facial area. Prepare presentation.