31.05.03 Prosthetics with total absence of teeth (108 HOURS/3 CREDITS)

(Course Title and Number)

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COURSE OBJECTIVE:

The program of the course “Prosthetics with total absence of teeth” is intended for the training of specialists in accordance with the requirements reflected in the Federal State Educational Standard of Higher Education in the specialty 31.05.03 Dentistry.  
The purpose of mastering the discipline is to prepare a dentist who is able to provide outpatient dental care to patients with no teeth, to form knowledge of the basics of the structure, condition and function of the dental system in the complete absence of teeth, as well as the principles of diagnosis, treatment and prevention of the dental system.

Potential themes to be addressed:

Orthopedic treatment of total absence of teeth

Orthopedic retreatment of total absence of teeth

COURSE OUTCOMES:

To know:

Have a general knowledge of groups of drugs, their pharmacokinetics, pharmacodynamics, compatibility, features of pharmacokinetics and pharmacodynamics of drugs in patients of elderly, old age.  
Have a general understanding of modern medical products (equipment, instruments and materials) used in dentistry and the rules for the use of dental equipment.  
Have an understanding of the etiology, pathogenesis, diagnosis, clinical picture in the complete absence of teeth; the value of special and additional research methods for the differential diagnosis of dental diseases; medical indications and contraindications to the use of radiological and other methods of additional examination.  
Have an understanding of the clinical picture of the main pathological conditions, symptoms of dental diseases; on the structure, coding system, list of headings and rules for the use of the international classification of diseases ICD-10.  
Have an idea about the main methods of treatment (medical indications, contraindications, complications) of the complete absence of teeth, clinical recommendations (treatment protocols) on the issues of medical care, on the procedure of rendering and standards of medical care for dental diseases.  
Have an idea of ​​the official duties of medical workers in medical organizations, the procedure and standard of medical care for outpatient profiles, the clinical picture, treatment methods (medical indications, contraindications, complications) total absence of teeth.

To be able to:

To be able to prescribe prescribed drug therapy for dental diseases in accordance with the existing medical indications, taking into account the pharmacodynamics and pharmacokinetics of drugs, drugs for the treatment of dental diseases.  
To be able to use traditional medical products (including dental materials, instruments) provided for in the procedure of providing medical care to patients with dental diseases in their professional activities.  
conduct physical examinations and interpret their results Identify common and specific signs of dental diseases Interpret the results of the initial and re-examination of patients Justify the need and scope of laboratory and instrumental examinations (including radiographs, telerograms, radiograms, orthopantomograms, tomograms (on film and digital media) and be able to interpret them.  
Identify common signs of dental diseases, determine the main pathological conditions, symptoms, syndromes of dental diseases in patients, be able to use the international classification of dental diseases based on ICD-10.  
Develop a treatment plan for the complete absence of teeth, taking into account the course of the disease, formulate medical indications for the chosen treatment method, taking into account the etiology and pathogenesis of the disease, substantiate the patient's pharmacotherapy in the main pathological syndromes and emergency conditions.  
Substantiate, plan and apply the basic methods of treatment of dental diseases, in particular the complete absence of teeth, taking into account the general condition of the body and the presence of comorbidities.

To master:

Successfully, independently carry out the selection of drugs for the treatment of dental diseases, assessment of possible side effects from taking drugs.  
In general, it is successful, but not systematically, to select medical products (including traditional dental materials and instruments) for the treatment of dental diseases.  
Successfully, systematically and independently conduct primary and repeated examination of patients, establish the final diagnosis, refer patients to laboratory and instrumental studies with analysis of their results, and consult a specialist physician.  
To get along with the skill of identifying patients with basic pathological conditions, symptoms, dental disease syndromes, finding a consistent clinical diagnosis with the ICD-10 based international classification of dental diseases.  
To have the skill to formulate a treatment plan for a patient in the complete absence of teeth, to monitor the course of treatment and to advise the patient on the methods of treating dental diseases.  
To have the skills of specialized treatment for the complete absence of teeth in an outpatient setting.

METHODOLOGY:

-Lectures and the presentation of visual materials (slides, videos)

-Readings and in-class discussions.

-Practical lessons.

COURSE REQUIREMENTS: The final exam includes test control and interview on tickets. The results of practical work of students in lessons will also be taken into account.

GRADING: Grading is based on individual progress. That progress will be based on the following:

20% - class participation

20% - test control

20% - practical skills

40% - final exam

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| Grades | Points |
| 2 | 0-54 |
| 3 (passed) | 55 - 69 |
| 4 | 70 - 84 |
| 5 | 85 - 100 |

9 semester

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| №№ | Topic | Type of Class | Hours | Tests/Essays |
| 1. | Complete absence of teeth. Changes in the facial skeleton, jaw bones in the absence of teeth. Features of clinical examination. The degree of atrophy of the bone tissue of the alveolar processes of the upper jaw and the alveolar part of the lower jaw. | practise | 2 | Control questions, practical skills |
| 2 | Methods of fixation and stabilization of removable dentures in the absence of teeth. The laws of physics and the anatomical and physiological features of the structure of the edentulous jaws in ensuring the fixation of dental prostheses. Clinical and laboratory stages of manufacturing complete removable laminar dentures. | practise | 6 | Control questions, practical skills |
| 3 | The boundary of the basis of the prosthesis with the complete absence of teeth in the upper and lower jaws. Methods for the manufacture of individual spoons and their fitting. Functional tests according to Herbst and others. Fitting individual spoons of plastic. Functional impressions, classification. Justification of the choice of impression material. Their characteristic. | practise | 6 | Control questions, practical skills |
| 4 | Determination of the central ratio of the jaws in the absence of teeth. Methods for determining the height of the lower part of the face. Clinical and anthropometric reference points for the selection and production of artificial teeth. | practise | 6 | Control questions, practical skills |

10 semester

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| №№ | Topic | Type of Class | Hours | Tests/Essays |
| 1. | Features of orthopedic treatment of patients with complete absence of teeth with repeated prosthetics, complicated by lowering the height of the lower part of the face. | practise | 5 | Control questions, practical skills |
| 2 | Clinical and laboratory stages of manufacturing full dentures with different designs of bases (metal, metallized, double-layered) in the absence of teeth. Clinical indications, advantages and disadvantages. | practise | 6 | Control questions, practical skills |
| 3 | The imposition of dentures in the absence of teeth. Adaptation to prostheses and factors affecting this process. Terms of use removable dentures. Correction of prostheses. | practise | 6 | Control questions, practical skills |

The Professors personal requirements for the course: attendance, homework, coming late, diaries of practical skills, medical dress.