PROPAEDEUTICS OF DENTAL DISEASES

LECTURE PLAN

**1st year 2nd semester 2023-2024.**

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| Date | Lecture topic | Lecturer | Academic degree |
| 12.02.2024  Monday  09.00-10.30 | Organisation and equipment of the dental surgery (departments, clinics). Safety regulations and sanitary and hygienic standards of the organisation and work of a dental institution (clinic, department, surgery) Dental instruments, and their purpose.  Modern dental units. Classification. Dental handpieces. Handpieces classification, operation principle, and care. Ergonomics in dentistry. | Полевая А.В. | К.м.н. |
| 19.02.2024  Monday  09.00-10.30 | The concept of the dentofacial functional system. Dental row structure. Dental arches and their shape on the maxillary and mandibular bone. Factors contributing to the integrity and stability of teeth in the dental arch. Articulation and occlusion. Types of occlusion. Physiological bite types, signs, and characteristics. Pathological bite. The main anthropometric landmarks on the face. Appliances that simulate the movement of the mandibular bone – occludators and articulators | Полевая А.В. | К.м.н. |
| 26.02.2024  Monday  09.00-10.30 | Fundamentals in mandibular bone biomechanics. Vertical, sagittal, and transversal movements of the mandibular bone. Movement patterns of the articular heads during different mandibular movements. Muscles involved in mandibular movements – structure, function. Definition of “masticating force”, “masticating pressure”, “masticating efficiency” | Полевая А.В. | К.м.н. |
| 04.03.2024  Monday  09.00-10.30 | Methods of dental patient examination: basic and supplementary methods of dental patient examination. Additional methods of dental patient examination: dental thermometry (heat and cold tests), electroodontodiagnostics (EOD), and X-rays (extraoral, intraoral). Functional masticating tests. Stages in the diagnostic process. Diagnosis: preliminary, final. The rationale for the diagnosis. Maintaining medical records. Completion of a case history, and dental formulary. | Полевая А.В. | К.м.н. |
| 11.03.2024  Monday  09.00-10.30 | Rotary tools. Diamond rotary tools: ISO standardisation, working part shape, dimensions, length, abrasiveness, working principle, and indications for use.  Dental drills: classification by material, ISO standardisation, shape, dimensions, length, operation principle, and indications for use.  Aseptics, antiseptics. Disinfection, sterilisation. Prevention of iatrogenic diseases. Methods and means of protection for the dentist and assistant. | Полевая А.В. | К.м.н. |
| 18.03.2024  Monday  09.00-10.30 | Dental caries. Definition. Classification. Atypical cavities. Principles and stages of carious cavities preparation. Preparation with the creation of a resistant and retentive cavity form. | Полевая А.В. | К.м.н. |
| 25.03.2024  Monday  09.00-10.30 | Peculiarities of the сarious cavities preparation of class 1 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | Полевая А.В. | К.м.н. |
| 01.04.2024  Monday  09.00-10.30 | Peculiarities of the сarious cavities preparation of class 2 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | Полевая А.В. | К.м.н. |
| 08.04.2024  Monday  09.00-10.30 | Peculiarities of the сarious cavities preparation of class 3-4 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | Полевая А.В. | К.м.н. |
| 15.04.2024  Monday  09.00-10.30 | Peculiarities of the сarious cavities preparation of class 5 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation.  Gentle preparation principles according to N. Nakabayashi, Lukomski. ART-technique (atrtaumatic restorative treatment) according to T. Pilot. | Полевая А.В. | К.м.н. |

PROPAEDEUTICS OF DENTAL DISEASES

SEMINAR/ PRACTICAL LESSON PLAN

**1st year 2nd semester 2023-2024**

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| № | Seminar/ practical lesson topic | Duration of the lesson |
| 1. | The place of propaedeutics in the dental education system.  Dental surgery organisation and equipment. Organisation principles of a dental clinic, department, or surgery. hygienic standards of the organisation and work of a dental institution (clinic, department, surgery)  Ergonomics in dentistry. | 2 часа |
| 2. | Classification and work principles of dental units: turbines, micromotors. Dentist chair. Working positions of a dentist when working on the upper and lower jaws. Four-handed work. Dentist and assistant positions. 'Four-handed operation' principle.  Safety precautions in the clinic. | 2 часа |
| 3. | Dental handpieces. Handpieces classification, operation principle& Basic tip faults. Purpose, choice at work. Disinfection, sterilization and care. | 2 часа |
| 4. | Dental instruments, and their functional purpose. Care, disinfection, sterilization.  Aseptics, antiseptics. Disinfection, sterilisation. Prevention of iatrogenic diseases. Methods and means of protection for the dentist and assistant. | 2 часа |
| 5. | Basic and supplementary methods of dental patient examination.   * Survey. Life and medical history concept. Patient complaints. * External examination. Palpation of regional lymph nodes, facial bones, masticatory muscles, and temporomandibular joint. * Oral cavity examination. Methodology, instruments. * Teeth and dental rows examination. Dental hard tissue probing. Vertical and horizontal teeth percussion. Determination of the degree of tooth mobility.   Additional methods of dental patient examination: dental thermometry (heat and cold tests), electroodontodiagnostics (EOD), X-rays (extraoral, intraoral). Functional masticating tests.  Laboratory methods of examination; cytological, histological, biochemical, immunological, and microbiological studies in dentistry  Stages in the diagnostic process. Diagnosis: preliminary, final. The rationale for the diagnosis. Maintaining medical records. Completion of a case history, and dental formulary. | 2 часа |
| 6. | The concept of the dentofacial functional system. Dental row structure. Dental arches and their shape on the maxillary and mandibular bone. Factors contributing to the integrity and stability of teeth in the dental arch. Articulation and occlusion. Types of occlusion. Physiological bite types, signs, and characteristics. Pathological bite. The main anthropometric landmarks on the face. Appliances that simulate the movement of the mandibular bone – occludators and articulators | 2 часа |
| 7. | Temporomandibular joint. Structure. Innervation. Age-related changes. Joint function during mandibular movements. Muscles involved in mandibular movements – structure, function. Definition of 'masticating force', 'masticating pressure', 'masticating efficiency'. Fundamentals in mandibular bone biomechanics. Vertical, sagittal, and transversal movements of the mandibular bone. Movement patterns of the articular heads during different mandibular movements. | 2 часа |
| 8. | Rotary tools. Diamond rotary tools: ISO standardisation, working part shape, dimensions, length, abrasiveness, working principle, and indications for use.  Dental drills: classification by material, ISO standardisation, shape, dimensions, length, operation principle, and indications for use.  Aseptics, antiseptics. Disinfection, sterilisation. Prevention of iatrogenic diseases. Methods and means of protection for the dentist and assistant. | 2 часа |
| 9. | Dental caries. Definition. Classification. Atypical cavities. Principles and stages of carious cavities preparation. Preparation with the creation of a resistant and retentive cavity form. | 2 часа |
| 10. | Peculiarities of the сarious cavities preparation of class 1 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | 2 часа |
| 11. | Peculiarities of the сarious cavities preparation of class 2 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | 2 часа |
| 12. | Peculiarities of the сarious cavities preparation of class 3 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | 2 часа |
| 13. | Peculiarities of the сarious cavities preparation of class 4 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation. | 2 часа |
| 14. | Peculiarities of the сarious cavities preparation of class 5 according to J. Black, equipment and instruments selection at the stages of carious cavities preparation Requirements for the formed cavity. Criteria for the quality of cavity preparation. Application of quality tests to remove affected dentin. Errors and complications during cavity preparation.  Gentle preparation principles according to N. Nakabayashi, Lukomski. ART-technique (atrtaumatic restorative treatment) according to T. Pilot. | 2 часа |
| 15. | The organization of work and equipment of prosthetic dentistry and surgical rooms of a dental clinic. Dental laboratory. Peculiarities of patient examination in a Prosthetic dentistry clinic. Impression trays. Types of impressions. Peculiarities of patient examination in a dental surgery clinic. | 2 часа |
| 16. | Final pass or fail test. | 2 часа |

SEMINAR PLAN

**1st year 2nd semester 2023-2024.**

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| Date/time | Location | Tutor | | |
| Suename | Academic degree | Academic rank |
| 13.02.2024 30.04.2024  06.05.2024 20.05.2024  13.30-15.00 | Менделеевская линия, д.5 | Иванников А.А. |  |  |