

PRECLINICAL PERIODONTOLOGY

IV YEAR – VII (WINTER) SEMESTER 2023/2024 LECTURE PROGRAMME

Wednesday: From 11.30 to 13.00, 1st week 5th Dent. Hall

DATE	THEME
27.09	<p>Lecturer: Prof. Bolyarova</p> <p>Introduction in periodontology Normal clinical and microscopic structure and functions of periodontal tissues: Gingiva – epithelium and connective tissue. Periodontal ligament. Root cement. Alveolar bone. Characteristics of dentogingival junction. Blood supply, nerve</p>
11.10	<p>Lecturer: Prof. Bolyarova</p> <p>Periodontal instruments and instrumentation. Classification of periodontal instruments: Instruments for diagnosis in periodontology: Periodontal probes – manual and automatic. Probing – principles and technique. Parameters measured by probing. Probing in furcation areas – instruments and principles.</p>
25.10	<p>Lecturer: Prof. Bolyarova</p> <p>Instuments for treatment of periodontal diseases: Scaling (supragingival and subgingival removal of dental biofilm, calculus and stains) – instruments and principles, techniques. Root planing (preparation of the root surfaces) – instruments and principles, techniques. Machine Instrumentation in periodontology: Ultrasonic Instrumentation - devices and principles. Rotary instruments and principles in periodontology. Reciprocal instruments in periodontal treatment. Lasers in periodontal treatment. Polishing - instruments, devices, polishing pastes. Desensitizing professional treatment of tooth surfaces.</p>
08.11	<p>Lecturer: Prof. Bolyarova</p> <p>Instruments, Instrumentation and materials for periodontal surgery: Instruments for incisions and excisions. Flaps in periodontal surgery. Instruments (hand and machine) for the preparation of the root surfaces during periodontal surgery. Instruments for periodontal bone surgery (hand and machine). Materials for regenerative periodontal therapy (for filling of bone defects, membranes, growth factors). Sutures in periodontal surgery - materials, principles, basic techniques. Periodontal dressings.</p>
22.11	<p>Lecturer: Prof. Bolyarova</p> <p>Classification of Periodontal and Peri-Implant Diseases and Conditions (2017). Concept. Definition of disease categories. Terminology.</p>

06.12	<p>Lecturer: Prof. Bolyarova</p> <p>Etiology of periodontal diseases. Dental biofilm – definition. Formation of dental biofilm. Structure of supra- and subgingival bacterial biofilm. Development of dental biofilm - a characteristic change in the bacterial composition, microbial sequence. Interbacterial structured relationships in dental biofilm. Clinical characteristics of bacterial plaque. Calculus - genesis, mineralization, localization, structure and composition, mechanisms of attachment, etiologic significance.</p>
20.12	<p>Lecturer: Prof. Bolyarova</p> <p>Microbiology of periodontal diseases: Periodontal pathogens, evidence of pathogenicity. Mechanisms of pathogenicity of periodontal pathogen microorganisms – adhesion, multiplication, co-aggregation, metabolic cooperation, avoidance of protective mechanisms of the organism, virulence, competition, invasion, transmissibility, promoting destructive reactions of the organism, bacterial complexes.</p>
10.01.24	<p>Lector: Prof. Mlachkova</p> <p>Pathogenesis of periodontal diseases: Contemporary paradigm. Protective processes – vascular and cellular aspects of inflammatory response. Factors of the destruction of periodontal tissues - proinflammatory cytokines, matrix metalloproteinases, prostaglandins. Specific defense mechanisms – cellular and antibody response. Interaction between bacterial factors of the organism and environmental factors. Factors in the progression of periodontal disease.</p>

Academic affairs assistant:

/Assist. Prof. Dr. V. Emilov/

Head of Department:

/ Prof. Dr. A. Mlachkova, md/