



Факултет по дентална медицина

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SYLLABUS

DENTAL PREVENTION

1. Basics of dental prevention – aim, basic directions, types, strategies and forms of dental prevention - responsibilities of the society, resources for dental prevention.
2. Etiology of dental caries – role of primary factors.
3. Etiology of dental caries – role of secondary factors.
4. Pathogenesis of dental caries – theories, contemporary opinion, exchange processes in the enamel /post-eruptive mineralization, demineralization and remineralization of enamel/.
5. Histopathology of dental caries in the enamel - criteria for stage differentiation, stages, zones of carious lesion, characteristics of the carious process in childhood.
6. Histopathology of dental caries in the dentin – stages, caries cone, features of the carious process in childhood.
7. Oral hygiene - dental plaque, structure, pathogenic potential.
8. Oral hygiene - assessment of dental plaque accumulation /methods and means/. Professional oral hygiene – methods and means, features in childhood.
9. Oral hygiene – personal oral hygiene. Mechanical and chemical control of dental plaque, factors determining the effectiveness. Methods and means for personal oral hygiene, features in childhood.
10. Instructions for oral hygiene. Methods for tooth brushing – techniques, duration, frequency. Features in different age groups. Individual programs for oral hygiene.
11. Nutritional prevention of oral diseases – preresorptive and postresorptive influence of the diet /role of carbohydrates, sugar substitutes/.
12. Nutritional prevention of oral diseases – preresorptive and postresorptive influence of the diet /role of proteins, fats, minerals and vitamins/.
13. Fluoride prevention of dental caries - fluoride metabolism in the human body, mechanisms of caries preventive action, positive effects of fluoride.

14. Fluoride prevention of dental caries - toxicology of fluoride, risks for overdose, clinical view and indices for assessment of dental fluorosis.
15. Endogenous fluoride prevention – mechanisms of action, optimal daily doses, methods and means.
16. Local fluoride prevention – mechanisms of action, methods and means.
17. Prevention of dental caries with mineralizing agents - aim, indications, mechanisms of action, factors determining the efficiency, methods and means.
18. Prevention of dental caries with dental sealants - aim, indications, mechanism of action, factors determining the efficiency, methods and means.
19. Epidemiology of dental caries - contemporary tendencies, indices for evaluation, determining factors, global goals of WHO.
20. Epidemiological study of dental caries – aim and stages of the study. Statistical indicators (prevalence of dental caries, tooth decay intensity, activity of dental caries, reduction of dental caries).
21. Contemporary strategies for prevention of dental caries and periodontal diseases. Evaluation and prediction of the risk of oral diseases, systems for risk assessment, individual oral risk profile.
22. Preventive programs - types, goals, organization and control.
23. Promotion of oral health - guidelines, principles, strategies, process of health promotion, methods of health promotion, health education.

SOURCES FOR INDIVIDUAL PREPARATION IN DENTAL PREVENTION

1. Axelsson P. Preventive materials, methods and programs, Quintessence, 2004
2. Axelsson P. Risk prediction and preventive dentistry, Quintessence, 2004
3. American Academy of Pediatric dentistry. Guideline on fluoride therapy. [www.aapd.org/media/Policies Guidelines/G_Fluoride Therapy.pdf](http://www.aapd.org/media/Policies_Guidelines/G_Fluoride_Therapy.pdf)
4. American Dental Association ADA statement on enamel (dental) fluorosis. www.ada.org/prof/resources/positions/statements/fluoride_community_enamel.asp
5. FDI/WHO/ADR. Global consultation on oral health through Fluoride. <http://www.fdiworldental.org>.
6. World Health Organization. The world health reports, 2003. Geneva: WHO; 2003 http://www.who.int/oral_health
7. Lecture course in Dental Prevention, Department of Pediatric Dentistry - Plovdiv

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HEAD OF DEPARTMENT: /s/

AB/SY

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