

Preventive Dentistry and Cariology

1. Predilect places for dental caries.
The principles of general communication with children. The principles of communication with different age groups children.
Fluorides in dental caries prevention. Mechanism of effect, toxicity.
2. Preventive aspects during dental caries treatment with filling.
Complex examination, treatment plan.
Nutrition significance, nutrition habits analysis.
3. Professional oral hygiene. Instruction of children or accompaniment.
Dental caries diagnosis according to its localization.
Preparation trauma.
4. Caries incipient, diagnosis, treatment methods.
Intraoral assessment of oral hygiene level. Plaque detection, toothpastes, information about their application.
Prevention and prophylaxis in stomatology.
5. Fluoride in dental caries prevention. Systemic application and local fluoridation, evaluation according to safety and effectiveness.
Preparation for amalgam, principles.
Hygiene of dental ordination.
6. Periodontium examination.
Preventive filling, indication, procedure.
Absolute and relative dry area.
7. Biological aspects of dental caries treatment.
Caries incipient, detection and therapy.
Home oral hygiene tools. Interdental hygiene. Interdental toothbrushes, strips, floss, superfloss, toothpicks.
Irrigation and its significance.
8. Prevention and symptoms of developmental enamel disorders.
Dental pulp and dentin wound protection. Means, procedure. Liners and bases use.
Critical pH of saliva, origins and its consequences, saliva pH measure.
9. Alternative preparation and treatment (tunnel preparation, slot preparation).
Histopatology of dental caries.
Primary, secondary, tertiary prevention.
10. Dental caries on deciduous dentition, epidemiology, localization, spreading.
Preventive care for oncological patients.
Fluoride concentration in pack, spring and mineral waters, juices and drinks.

11. Macromechanical and micromechanical retention of plastic fillings.
Secundar and reccurens caries, origins, detection.
Oral hygiene adjustment, toothbrushing methods. The suitable method choice. Learning according to age, periodontium status and patient skills.
12. Fissure sealing, indication, procedure, complication.
Preventive extension and resistance of hard dental tissues and plastic fillings.
Saliva as oral environment. Saliva function and its role in dental caries etiology and prevention.
Artificial saliva.
13. Oral health, its quality and relation to general health.
Fissural caries, epidemiology, prevention and therapy.
Filling materials for deciduous teeth.
14. Diagnosis of proximal caries on deciduous teeth.
Oral cavity as a biotop, acquisition and microorganisms transmission. Commensal and pathogenic microorganisms.
Nutrition significance in dental caries prevention, preeruptive and posteruptive influence of nutrition.
15. Dental caries etiology, theory of dental caries.
Fluoride supplementation of preschool children.
Definitive and semidefinitive fillings of deciduous teeth.
16. Prevention at permanent teeth with unfinished development.
ART technice and Carisolv.
Retention providing for plastic filling.
17. Proximal caries on permanent teeth with unfinished development, preparation and therapy.
Direct and nondirect assessment of stomatological treatment quality.
The principles of examination instruments use.
18. Oral care for handicapped patients due to their handicap.
Optimal therapy of deciduous teeth, overtreatment, undertreatment.
Ethical and economic aspects of stomatological care.
19. Formation, maturing and organization of microbial dental plaque.
Pain prevention during the cavity preparation.
Treatment plan.
20. Cariosity indices, control of preventive measures effectiveness.
Histology of enamel and dentine caries.
Prevention with fluoride for babies.
21. Extra- and intraoral examination, anamnesis significance.
The treatment of patient with transmissible diseases. The treatment problems of patients with AIDS.
Prenatal and postnatal prevention at children.

22. Principles of communication with handicapped patient and his accompaniment. Ten principles of communication with patients with hearing and visual handicap.
Filling polishing.
Prevention and symptoms of developmental enamel disorders.
23. Treatment of caries ad pulpam penetrans.
Indices as part of patient complex examination.
Workprocedure of the II-nd class cavity according to Black preparation for amalgam filling.
24. Iatrogenic damages of hard and soft tissues during dental caries treatment with plastic filling.
Preventive programme for handicapped patients.
The principles of communications with seniors.
25. Instruments and equipment for dental plaque and calculus removing, technique of use.
Prevention during the prosthetics treatment.
Dental caries treatment of permanent teeth with unfinished development occlusal surfaces.
26. Instruments in therapeutical dentistry.
Dry area, indication and procedure.
Early childhood caries, epidemiology, localization, prevention, spreading.
27. Histology of dental tissues.
Alternative techniques of dental caries treatment.
Home dental care, tools, procedure.
28. Preventive extension and resistance of fillings and hard dental tissues.
Patient documentation, content, procedure.
Xylitol in dental caries prevention.
29. The principles of preventive programme for children.
Erosion, wedge shape defects. Symptoms, prevention possibilities.
Plaque detection, possibilities, procedure, significance.
30. The principles of preparation for adhesive fillings.
Effective information and motivation of patients, their parents and carers.
The principles of communication with patient. Verbal and nonverbal communication.
31. Tools for amalgam filling make and modeling.
Basic and additional preventive programmes.
Demineralization and remineralization of hard dental tissues, resistance and solubility.
32. Caries on the gingival part of the crown, spreading, detection, treatment.
Calculus, etiology, removing.
Treatment plan.
33. Odontoplastic and iatrogenic damages removing. Grinding.
The child in the dental office. The first visit of the dentist.
Overhanging filling, origins, consequences.

34. Dental hard and soft tissues damage at professional oral hygiene.
Radiodiagnosis of dental caries, Bite-wing radiogramme, indication, procedure, carious lesions classification D1-D4.
The mistakes of filling modeling. Nonsparing manipulation with instruments.
35. Preparation instruments and devices for dental caries treatment.
Oral hygiene at difficult conditions.
Oral health, significance and WHO aims.
36. Dentition examination, additional tests.
Cements for bases, properties, indications.
Local fluoridation, indication, means, mechanism of effect.
37. Habitual unclean places, their significance. Dental caries prevention.
Dental amalgam, indications, prepare and filling make.
Epidemiology of dental caries and parodontopathies, WHO aims.
38. Calculus, types of instruments for calculus removing.
Cariogenic and noncariogenic sweeteners.
Identification of individuals and risk groups. Microbiological tests, evaluating methods.
Dentocult.
39. Hand preparation and modeling instruments.
Chemical composition of saliva. Factors influenced the saliva production. Nonstimulated and stimulated saliva. Measure of saliva quantity.
Psychotherapeutical preventive methods, methods facilitating and conducting the treatment, cooperation with psychologist and psychiatrist.
40. Interceptive conception of stomatology, procedure of dental caries treatment.
Dental care for seniors. Strangenesses of dental caries treatment at old patients.
Therapy finishing and control of treatment.