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PC14

Investigation of the preventive and stabilizing effect of silvering method in approximal surfaces caries of primary molars in children with orthodontic pathology

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Introduction. The distal position of the lower jaw is a widespread type of pathology in European population. The specific occlusal relationship between molars predisposes to the food sticking and often leads to approximal caries.

Aim. Investigation of the efficiency of silver diamine fluoride (SDF) usage for enamel strengthening in prevention and stabilization of an approximal caries of primary molars.

Material and methods. SDF solution was applied on contact surfaces of first and second primary molars without and with signs of acute initial and superficial caries. The efficiency of the method was assessed by comparing the of the complaints and examining of the distal and mesial marginal ridges shape with standard method, and with floss for determination the defects of hard tooth tissue, which are located close to gingival margin.

Results. Silvering of 73 surfaces was made. The visible changes of the shape of marginal ridges, as a symptom of spreading the damage into a deeper layer, were not registered in all cases. Examination with floss did not demonstrate the presence of new lesions in all sound teeth.

Conclusions. The obtained results demonstrated the preventive and stabilizing effect of silver diamine fluoride in relation to caries of approximal surfaces of primary molars in children with orthodontic pathology.