their respecive area. Ideally, there would be prophylaxis programmes and, in consequence, interceptive treatment.

Key words: anomalies, occlusion, orthodontic clinical diagnostic.

328. THE STUDY OF BIOPHYSICAL PROPERTIES OF ORAL FLUID IN CHILDREN WITH DENTAL CARIES

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Introduction. For early diagnosis of dental and systemic diseases, the crystallographic method of research of the oral fluid (OF) was proposed, as it is the most accessible body fluid.

Aim of the study: to study peculiarities of oral fluid micro crystallization in children with dental caries.

Material and methods: 100 children aged between 7 and 10 have been clinically examined. The study of crystallographic changes of the oral liquid was performed using the method developed by Shatohina S.N. and coauthors (2006). A volume of 0.2 to 0.3 ml of oral liquid was collected with a sterile pipette. Three drops of oral liquid collected from each child were applied on glass slides. The dehydration of the OF product drops was produced in a thermostat at t 37°C, which insured dust protection. Micro preparations were examined under an optical microscope. The study was conducted in accordance with the requirements of the Code of Ethics for Scientific Research.

Results: from the total number of children examined, 71% are affected by dental caries. The oral fluid micro crystallization degree in children with dental caries is lower compared to caries-free children and is correlated with the degree of caries activity.

Conclusion: the study of structural peculiarities of dehydrated oral fluid droplet in children with dental caries has elucidated a number of markers of the changes produced in the mouth that can later be applied in screening research activities in dentistry, dental practice and development of cario-preventive measures and evaluation of their effectiveness.

Keywords: oral fluid, micro crystallization, dental caries

329. EVALUATION OF THE RISK OF DENTAL CARIES OCCURRENCE IN CHILDREN USING THE CARIOGRAM SOFTWARE

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