

blood serum was determined by the immunoenzymatic method of analysis (Vectior-Best, Russia). The study was conducted in accordance with ethical requirements, with the written consent of the children's parents or legal representatives. Analysis of statistical data, using parametric and nonparametric tests, was done using Microsoft® Excel® 2013 programs with the help of the function and of these programs.

**Results.** In children in group L1 there was a significant decrease in the level serum IgA, IgG, IgM and OF sIgA, IgA, IgG, being in reverse with the number of strains *Streptococcus mutans* in saliva, dental biofilm and indices of caries experience.

**Conclusions.** significant decrease in immunoglobulin levels in oral fluid and blood serum found in carioreceptive children is one of the important factors of carious risk and an unfavorable indicator of aggressive evolution of dental caries, which must be considered when planning individualized preventive measures.

**Key words:** immunoglobulins, dental caries, carious risk

#### **340. MALOCLUSION PATTERNS IN PHYSICALLY, AUDITORY AND VISUALLY HANDICAPPED PATIENTS IN REPUBLIC OF MOLDOVA**

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**Introduction.** The main problems of orthodontics from Republic of Moldova is to determine either the genetics or enviromental factors influence the development of malocclusions

**Aim of the study.** The purpose of the study is to determine the prevalence of malocclusion in children with special needs and relation with neurological disorders in the process of social behavoir of children.

**Materials and methods.** It was examined 2057 children with special needs (physically, visually, auditory, others) aged between 7-15 from diferent orphaned school from Republic of Moldova. Clinical examination of children included: disponsable dental mirror, chemical pencil, wooden spatula, calipser, portable light. Control group were selected 1345 children from normal school who did not have any neurological disorders and treatment of malocclusions.

**Results.** In sagital plan malocclusion was associated with 69 (9,75%) cases with auditory handicapped, 74(14,8%) children with visually handicapped, but in 33(18,33%) - with physically handicapped children. Mostly, malocclusion have been detected in physically handicapped children in vertical and transversal plan. Malocclusion varied in boys between 58,8% and 63,89% and in girls between 36,11% and 41,21%. The most affected age is 12-15 in visually handicapped children, 9-12 – auditory handicapped children and 7-9 age- in physically handicapped children.

**Conclusions.** Auditory, visually and physically disorders can be considered as key predictors and risk factors in appearance of malocclusion in children. Children with special needs may be treated according to the age and the nature of malocclusions.

**Key words:** malocclusion, children, special needs, orthodontic treatment

#### **341. NEW METHODS OF RESTORING INTERDENTAL CONTACTS**

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