INDICATORS OF IMMUNITY OF ORAL FLUID AS MARKERS OF THE CONDITION OF PARODONTA TISSUES

Yu.Yu.Yarov
Donetsk National Medical University, Ukraine

Inflammatory process in parodontal tissues causes immunological reactions mainly in the system of local immunity of an oral cavity. Therefore, identification of features of destroying of various links of immunity in patients with different condition of prodontal tissues is of scientific and practical interest.

Materials and methods. 60 people aged from 18 up to 34 years were examined: 25 people with an intact parodont, 35 patients with a chronic catarrhal gingivitis. The Simplified Oral Hygiene Index of Greene and Vermilion (OHI-S) was calculated. Oral fluid for an immunological research was collected by a spitting it out in 5 ml centrifugal test tubes. Immunoglobulins studied with using a Mancini method of radial immunodiffusion.

Results. The comparative analysis of indicators of specific and nonspecific immunity of an oral cavity at patients with an intact parodont and a chronic catarrhal gingivitis was done. It was found that at a healthy parodont and the satisfactory level of OHI-S (1,38±0,14 points) lysozyme level in oral fluid was 500,1±8,6 mkg/ml, concentration of secretory IgA – 0,304±0,014 g/l, a monomeric form of IgA – 0,223±0,003 g/l, IgG – 0,488±0,004 g/l. At a chronic catarrhal gingivitis and the unsatisfactory level of OHI-S (1,88±0,19 points) reliable increase in lysozyme in oral fluid by 1,16 times (p < 0,05), secretory IgA – by 1,23 times (p < 0,05) and a monomeric form of IgA – by 1,09 times is defined (p < 0,05). The
tendency to increase in IgG is noted ($p < 0.05$). Thus, the studied indicators of immunity can be used as markers of pathological process in parodont tissues.

**References**


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