Dynamics of the nasal secretion of cytokines under local application of immunomodulator gamma-D-glutamyl-L-tryptophan (Bestim) to the nasal mucosa in infants and preschool children with tonsillar hypertrophy of pharyngeal lymphoid ring

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Concentrations of cytokines in nasal secretion in children of early and preschool age were investigated by ELISA. IL-1β, IL-1Ra and IL-4 were present in nasal secretion of all children. INFα was found in 95% children, and TNFα — in 50% children. IL-1β concentration was reduced in children with tonsillar hypertrophy, and IL-4 and IL-1Ra were elevated in these children. Cytokine levels in nasal secretions normalized after local application of an immunomodulator "Bestim". (Cytokines and Inflammation. 2013. Vol. 12. № 1–2. P. 148–154.)

Key words: hypertrophy of pharyngeal lymphoid ring, cytokines, immunomodulator, gamma-D-glutamyl-L-tryptophan.