Aim: The aim of this study was evaluation of the percentage and mean fluorescence intensity of lymphocytes B with expression CD80 and CD86 in hypertrophied adenoids in children with otitis media with effusion.

Material and methods: Expression coreceptors CD80 and CD86 on lymphocytes B in adenoid tissue were estimated by flow cytometry method. 15 children with otitis media with effusion and 15 children with hypertrophied adenoids were tested.

Results: This study showed significantly higher percentage of lymphocytes CD19+CD80+ in children with otitis media with effusion (OME 1.42% ± 0.91) than in comparative group with hypertrophied adenoids (AH 0.63% ± 0.21). The receptor CD86 didn’t show differences in expression on lymphocytes B between both examined groups.

Conclusion: Low expression of CD80 and CD86 indicates that local immunity response in hypertrophied adenoids in children with otitis media with effusion is weakened. It can contribute to the otitis media with effusion.

Hasła indeksowe: CD80, CD86, limfocyty, przerost migdałka gardłowego, wysiękowe zapalenie ucha śródkoowego.

Key words: CD80, CD86, lymphocytes, hypertrophied adenoid, otitis media with effusion.