

Zapalenie zatok - racjonalna antybiotykoterapia

Sinusitis - judicious antibiotic treatment

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Summary

The paper presents different forms of sinusitis in children and adults as well as the pathomechanism of sinusitis of infective and non-infective origin. The role of bacterial infection has been discussed. Participation of major pathogens of URTI such as *S. pneumoniae*, *H. influenzae* and *M. catarrhalis* has been highlighted and the factors influencing growth of their antibiotic-resistant strains. Guidelines concerning antibiotic therapy in children and adults, depending on disease course, age and factors influencing growth of resistant strains have been presented. Causes of failure in treatment of sinusitis have been analysed eg. in case of bacterial biofilm growth or non-neutrophilic inflammation forms. Antimicrobial treatment concerns mainly acute and aggravated infections. In case of chronic sinusitis, antibiotic therapy is complementary to surgical treatment.