

MACROLIDES AND ALLERGY

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Summary

*Macrolides are antimicrobial medicines wide used for treatment of the different respiratory, genitourinary and gastro-intestinal infections including *H. pylori*. Medicines have high clinical effectiveness against grampositive pathogens, some gramnegative bacteria (*H. influenzae*, *M. catarrhalis*, *B. pertussis*) and atypical microbes this does them medicines of choice in a lot of clinical situations. Combination macrolides and beta-lactams is significantly higher effective for treatment of pneumonia and Chronic obstructive pulmonary disease exacerbation.*

*Macrolides, especially azithromycin, have the ability to adjust the immunological and inflammatory reactions. It is one of components of their efficacy. Azithromycin proved the capability to decrease virulence and resistance to antimicrobials of *P. aeruginosa*. Antibiotics of this group are the safest medicines caused small amount of adverse events.*

Allergic reactions in the use of macrolides are at the level of 0.1 % to 1 %. During last years this index is stable. The most frequently it is macula-papular rash, but the cases of systemic reactions like as Stevens–Johnson syndrome, drug reaction with eosinophilia and systemic symptoms were described. Severe allergic reactions with systemic manifestations are more frequently occurred at the pediatric practice.

The most informative methods for diagnosis of allergic reactions to the macrolides are skin and provocation tests. The use of provocative tests, can not only detect the allergic reactions, but it is one of the methods of their treatment. Systemic corticosteroids and antihistamines are used for symptomatic therapy of allergic reaction to the macrolides.

Key words: *macrolides, azithromycin, allergic reactions, allergological tests.*

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