عنوان مقاله:

Determine Efficacy of a Short Course of Montelukast in Children with Intermittent Asthma and Viral Infection

محل انتشار:

مجله بین المللی کودکان, دوره 1, شماره 1 (سال: 1392)

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نویسندگان:

Hamid Ahanchian - IDepartment of Pediatric Allergy-immunology, Mashhad University of Medical Science, Mashhad, .Iran

Fatemeh Behmanesh - IDepartment of Pediatric Allergy-immunology, Mashhad University of Medical Science, .Mashhad, Iran

Hamid Reza Kianifar - YDepartment of Pediatric Gastroenterology, Mashhad University Of Medical Science, Mashhad ., Iran

Nasrin Sadat Motevalli - IDepartment of Pediatric Allergy-immunology, Mashhad University of Medical Science, .Mashhad, Iran

خلاصه مقاله:

Introduction Mild intermittent asthma is common in children and viral infections are responsible for the majority of exacerbations. As leukotrienes are potent inflammatory mediators, some studies have shown that Montelukast, a leukotriene receptor antagonist, may be effective on reduction of asthma symptom. To determine whether a short course of Montelukast in asthmatic children with common cold would modify the severity of an asthma episode. Materials and Methods Children, aged 6-12 years with intermittent asthma participated in this randomized, doubleblind, placebo-controlled clinical trial. Treatment with Montelukast or placebo was initiated at the onset of viral upper respiratory tract infection and continued for 7 days. Primary outcomes included the clinical manifestation: duration of episodes, daily symptom, nights symptoms and activity limitation. Secondary outcomes included the need for beta visit, admission agonist usage, oral prednisolone, physician hospital and school Results A total of 187 children with intermittent asthma were randomized, 93 to Montelukast group and 94 to placebo group. Montelukast significantly decreased the cough by 17.3% (P<0.001), nighttime awakenings by 5.4% (P=0.01), interference with normal activity by 6% (P<0.01), time off from school by 6% (P<0.01), β-agonist usage by 17.2% (P<0.001) and doctor visits by12.2% (P<0.01) compared to placebo. Whereas there was a non significant reduction in wheezing, tachypnea, respiratory distress, asthma exacerbation, oral prednisolone and hospitalization (P=0.8). Conclusion A short course of Montelukast, introduced at the first sign of a viral infection, results in a reduction in cough, β-agonist use and nights awakened, time off from school and limitation of activity. More studies are needed to evaluate the optimal dose and .duration of treatment

كلمات كليدى:

Intermittent Asthma, Montelukast, Viral infection

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