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Title: Impact of adult rhinosinusitis on asthma severity

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Body: Objectives: This study aimed to evaluate the prevalence of rhinosinusitis in patients with asthma, and to examine the interrelationship between both conditions, as well the correlation of rhinosinusitis symptoms to radiological findings. Methods: A prospective study was carried out during the period 2009 - 2010 enrolled 280 asthmatic patients of different severity scores, all screened for any associated symptoms of rhinosinusitis, and evaluated radiologically for the evidence of sinuses mucosal changes. Results: A total of 280 subjects were screened in this study, 78% were females with mean age of 40 years. In this group 92% of these patients have symptoms of allergic rhinitis, and the asthma severity score was intermittent in (3%), mild persistent in (35%), moderate persistent (53%), and severe persistent asthma in (9%) of patients. A significant correlation was found ($P < .008$) between the rhinitis symptoms score and asthma severity score. The prevalence of allergic rhinitis symptoms was correlated with the radiological changes seen at the sinuses CT scan of patients ($P < .004$). Conclusion: This study reinforces the high prevalence of allergic rhinitis in patients with asthma, and its correlation with the severity of asthma for the included patients, as well the rhinosinusitis symptoms was significantly linked to the radiological findings seen at the sinuses CT scan in this group. Key Words: Rhinosinusitis, Asthma, severity score, CT. scan.