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Title: Control of allergic rhinitis and asthma test, asthma control test and FeNO in asthma

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Body: Introduction: The assessment of asthma control is essential in the follow-up of this disease.

Objectives: Assessment of asthma and/or rhinitis control through the application of two questionnaires and the measurement of Fractional Nitric Oxide concentration in exhaled breath (FeNO). Methods:

Cross-sectional observational study of patients with asthma and/or rhinitis that, in a two months period, visited a respiratory function laboratory to perform lung functional tests with measurement of FeNO and to whom were applied 2 questionnaires: Control of Allergic Rhinitis and Asthma Test (CARAT) and Asthma Control Test (ACT). Results: 109 patients, 65,7% women, mean age 32,6±17,9years. Of these, 63,3% had asthma and rhinitis, 24,8% had asthma and 11,9% had rhinitis. The mean FeNO was 36±28,4ppb (min/max= 4/115). 58,7% patients were atopic and a statistically significant association was established between atopy and FeNO (p<0.05). In patients with positive bronchodilatation test, FeNO values were higher (p<0.05). This study demonstrated a statistically significant correlation between the total CARAT (CARATt) and ACT test (r=0.7, p<0.05), as well as between asthma CARAT sub-score (CARATa) and ACT test (r=0.8, p<0.05). It was demonstrated a statistically significant association between subjective control of the disease and CARATt, CARATa and ACT (p<0,05). Conclusions: There was a statistically significant association between: atopy/positive bronchodilatation test and higher FeNO, and between CARATt/CARATa and ACT test scores. This study highlights the importance of using low cost and easily applicable questionnaires that are validated in the assessment of asthma control.