CAUSES OF CHRONIC COUGH IN NON-SMOKING PATIENTS.

Marta Dąbrowska¹, Elżbieta Magdalena Grabczak¹, Magdalena Arcimowicz², Anna Domeracka -Kołodziej², Joanna Domagała - Kulawik¹, Rafał Krenke¹, Marta Maskey-Warzęchowska¹, Bożena Tarchalska³, Ryszarda Chazan¹

¹Department of Internal Medicine, Pneumonology and Allergology, Medical University of Warsaw

² Department of Otolaryngology, Medical University of Warsaw,

³ Department of Experimental and Clinical Pharmacology, Medical University of Warsaw,

Purpose

Chronic cough is a common medical problem. The aim of the study was to analyze chronic cough causes in non-smoking patients and to search for demographic factors associated with different cough reasons.

Patients and methods

The etiology of cough was determined by medical history, diagnostic tests and response to specific treatment. Patients with significant abnormalities in the chest radiograph or spirometry were not included.

Results

The study included 131 patients; median age 54 years, 101 (77%) females. A single cough etiology was diagnosed in 54 patients (43%) and multiple cough reasons in 73 patients (57%), respectively. In 4 subjects chronic idiopathic cough (CIC) was diagnosed (3%).

The most frequent causes of cough were gastroesophageal reflux disease (GERD) (62%) and upper airway cough syndrome (UACS) (46%). Cough variant asthma and nonasthmatic eosinophilic bronchitis (NAEB) were diagnosed in 32 (25%) and 19 (15%) patients, respectively. Other cough causes were found in 27 patients (21%).

Asthma was a significantly more common cause of chronic cough in women than in men (31% vs. 3%, p =0.005). A reverse relationship was demonstrated for UACS (39% vs. 67%, p=0.01). Patients with chronic cough aged > 50 yrs were more likely to be diagnosed with less common cough causes.

Conclusions

In conclusion, the most common chronic cough reasons are GERD and UACS. Asthma-related cough is diagnosed more frequently in females, while UACS-related cough is more frequent in males. The incidence of less common cough causes is higher in patients above the age of 50 years.