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OP 10 Headache in Patients With Chronic Obstructive Pulmonary Disease: Effects of Pulmonary Function Parameters

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Background:Chronic obstructive pulmonary disease (COPD) is a disease characterised by airflow limitation. Hypoxaemia-related headaches are long-recognised conditions. However, the clinical importance of that and the relationship between COPD are not well understood.

Aim: We performed this cross-sectional clinical-based study in order to determine the characteristics of headache and its relationship with pulmonary function test (PFT) in COPD.

Method: COPD patients (n=100) and healthy control patients (n=100) were included in the study. Sociodemographic and disease characteristics of patients were questioned. Oxygen saturation was measured. Headache types were diagnosed according to ICHD-III. Visual analog scale (VAS) and headache-restricted activities assessment scale (HRAA-S) were applied. COPD severity was assessed with modified medical research council (mMRC) scale. PFT was performed 3 times and best values were included. Forced expiratory volume in 1s (FEV1), forced vital capacity (FVC), FEV1/FVC and residual volume (RV) were recorded. Data were analyzed with SPSS 21.0 package software.

Results: 100 patients (15 females,85 males) were included in the study. The mean age was 64.6±11.6 years. Frequency of headache, score of VAS and HRAA-S were higher in COPD (p=0.01).Tension-type headache was higher in COPD (p=0,03).Other headache types were similar in COPD (p>0.05).There was no difference between PFT and oxygen saturation with type of headache in COPD (p>0.05).Also, there was no correlation between COPD severity and headache characteristics.

Conclusion:The frequency of headache (especially tension headache) is higher in COPD patients. Headache is not associated with PFT and oxygen saturation.