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Title: The relationship of comorbidities with clinical and phsylological parameters in COPD

Dr. Fatma 22107 Ciftci fatmarslann@yahoo.com MD ¹, Dr. Elif 22108 Sen elifsen2001@yahoo.com ¹, Dr. Gokcen 22109 Arkan gokcenarkan@hotmail.com ¹, Dr. Duygu 22110 Acar dyguacar@yahoo.com ¹, Dr. Pinar 22111 Onen zponen@yahoo.com ¹, Dr. Banu 22112 Gulbay banu.gulbay@gmail.com ¹, Prof. Dr Oznur 22113 Yildiz akkoca@medicine.ankara.edu.tr ¹, Prof. Dr Turan 22114 Acican acicanmedicine@ankara.edu.tr ¹, Prof. Dr Sevgi 22115 Saryal saryal@medicine.ankara.edu.tr ¹ and Prof. Dr Gulseren 22120 Karabiyikoglu kbiyikog@medicine.ankara.edu.tr ¹. ¹ Department of Pulmonary Diseases, Ankara University School of Medicine, Ankara, Turkey, 06100 .

Body: Chronic obstructive pulmonary disease (COPD) is defined as a systemic inflammatory disease. Systemic inflammation can start certain comorbidities or increase their severity. This study aims to assess the relationship of comorbid diseases with clinical and physiological parameters. The study enrolled 115 patients (15 female, 100 male) who are on regular follow-up in COPD outpatient clinic. In each patient the presence of cardiovascular disease (hypertension, coronary artery disease, arrhythmia, heart failure), hyperlipidemia, cachexia, malignancy, diabetes, osteoporosis, anxiety disorder, depression, obstructive sleep apnea, and anemia was questioned. The most frequent diseases were hypertension, coronary artery disease, and hyperlipidemia (43,9%, 39,6%, 27,4%, respectively). Cardiovascular diseases were more common in those with a FEV1 percent below 50 (r=0,10; p<0,05). Hypoxemia level was related to heart failure in COPD patients (r=0,014; p<0,05). In patients with a high Charlson Comorbidity Index (CCI) coronary artery disease (r=0,032; p<0,05) hyperlipidemia (r=0,00; p<0,001), diabetes (r=0,00; p<0,05), anemia (r=0,019; p<0,05) were more common. In patients with a high COPD assessment test (CAT) hypertension (r=0,051; p<0,05) was more prevalent. As a conclusion, disease stage and hypoxemia level are related to concomittant cardiovascular system diseases. A more than expected deterioration in general health status is observed in COPD patients with comorbidities.