The relationship between the severity of airway obstruction and COPD Diagnostic

Ouestionnaire score in COPD patients

Abstract

Background and Objective: COPD is a chronic obstructive pulmonary disease characterized by

pulmonary and non-pulmonary complications associated with systemic inflammation and

irreversible limitation of airflow. COPD Diagnostic Questionnaire (CDQ) is a validating

questionnaire that is used to identify patients with COPD. The purpose of this study was to

determine the relationship between the severity of airway obstruction and the diagnostic

questionnaire of chronic obstructive pulmonary disease.

Methods: In this study, 100 patients with stable COPD were studied. The patients had smoking

history and American Thoracic Society (ATS) criteria includes: coughing and explution of

phlegm, chronic dyspnea, obstructive pattern in spirometry (FEV1 / FVC < 70%). After obtaining

consent, demographic information of patients, CDQ questionnaire and the variables

completed. The variables in this study were smoking history, history of exacerbation during the

past year, spirometric data, CAT points and MMRC score.

Results: All studied patients were male. There was a significant relationship between CDQ score

with FEV1% (P <0.001), GOLD stage (P = 0.005), quality of life according to CAT (P = 0.02)

and severity of dyspnea according to MMRC (P = 0.001).

Conclusion: The COPD Diagnostic Questionnaire (CDQ) can be used to diagnose airway

obstruction, the severity of obstruction, and quality of life in COPD patients. Therefore, it is

recommended that this questionnaire can be used in non-spirometric health center for identifying

and refering of COPD patients.

Key Words: CAT, COPD, PFT,CDQ