

## عنوان مقاله:

Evaluation of Prognostic Factors of Mortality in Patients with Chronic Obstructive Pulmonary Disease

مجله علمي پژوهشي دانشگاه علوم پزشكي زنجان, دوره 26, شماره 118 (سال: 1397)

تعداد صفحات اصل مقاله: 6

**نویسندگان:** Dept. of Emergency Medicine, Faculty of Medicine, Kerman University of Medical Sciences, Kerman, Iran - مهدی ترابی

ميترا ثمره فكرى - Pulmonology Cardiovascular Research Center, Institute of Basic and clinical physiology sciences Kerman University of Medical Sciences, Kerman, Iran

سارا عزيزي شول - Dept. of Emergency Medicine, Faculty of Medicine, Kerman University of Medical Sciences, Kerman,

احمد نقیب زاده - Dept. Epidemiology, Research Center for Modeling in Health, Institute for Futures Studies in Health, Kerman University of Medical Sciences, Kerman, Iran

شبوا معين الديني . Dept. of Emergency Medicine, Faculty of Medicine, Rafsanjan University of Medical Sciences, Kerman, Iran

### خلاصه مقاله:

Background and Objective: Chronic Obstructive Pulmonary Disease (COPD) is a chronic obstructive and irreversible disease which has a high mortality and morbidity rate. Systemic inflammation and the thrombotic process can influence the prognosis of these patients. The objectives of this study were to evaluate prognostic effects of CBC indices (WBC, PMN, MPV, RDW), forced expiratory volume-one second (FEVI) and mean Pulmonary Artery Pressure (mPAP) in the prognosis of COPD patients with acute exacerbation of the disease. Material and Methods: This crosssectional study was performed on exacerbated COPD patients who were admitted to the emergency department, Afzalipour Hospital, Kerman, Iran during Yo19-Yo1V. For all the patients, CBC was assessed as they arrived then Pulmonary Function Test and echocardiography were conducted. In order to create the final model, we employed multivariate regression analysis. Results: A total of ۱۰Υλ patients were enrolled during one year, of which ۵λ. ٣% were male. In multivariate analysis, White blood cells (WBC), Polymorphonuclear leukocytes (PMN), Mean platelet volume (MPV), Red Cell Distribution Width (RDW), FEV1 and mPAP were the six variables which are independently associated with hospital mortality and ICU admission. Sensitivity, specificity and area under the curve for these six variables model were YA.A, 9Y and AF% respectively. Conclusion: Since the inflammatory and thrombotic events are influential in the prognosis of COPD patients, it may be possible to predict patients outcome with CBC related indices (WBC, PMN, MPV and RDW), although other important risk factors such as pulmonary hypertension and FEV1 .decrease should be considered as well

# كلمات كليدي:

COPD, Mean platelet volume, Red Cell Distribution Width, Hospital mortality

https://civilica.com/doc/1191626

لینک ثابت مقاله در پایگاه سیویلیکا:

