

DOI: 10.5152/TurkThoracJ.2019.202

[Abstract:0520] OP-061 [Accepted: Oral Presentation] [Respiratory System Infections]

The Mortality Rate and Related Factors in Patients with Community-Acquired Pneumonia Requiring Hospitalization

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Objectives: The aim of the study is to determine the mortality rate and related factors in patients with community-acquired pneumonia (CAP) requiring hospitalization.

Methods: Our hospital's electronic patient database was searched for the patients with CAP and fifty patients retrospectively evaluated. Age, gender, hospital mortality, presence of comorbid disease, smoking history, history of intensive care unit and invasive mechanical ventilation, hospitalization duration, arterial oxygen saturation (SaO₂), CURB-65 score, sputum culture results, values of pulse, arterial blood pressure, fever, respiratory rate, confusion status, hemogram, urea, creatinine, CRP and procalcitonin values were recorded from database system.

Results: 34 (68%) of the patients were male (mean age 68.21±10.94) and 16 (32%) were female (mean age 65.38±18.87). The hospital mortality rate was 16% (n=8). The mean age, neutrophil percentage and CURB-65 score were statistically increased and the mean systolic blood pressure value was statistically decreased in patients with non-survivors compared with survivors (p<0.05). There was no significant difference for presence of comorbid disease, hospitalization in the intensive care unit, smoking, sputum culture positivity and procalcitonin positivity between survivors and non-survivors CAP patients.

Conclusion: Advanced age, high neutrophil ratio, high CURB-65 score and low systolic TA values may be associated with hospital mortality in patients with CAP requiring hospitalization.

Keywords: Community-acquired pneumonia, Mortality, CURB-65