Blood pressure and PAOI score in patients with pulmonary embolism

Alen Džubur, Edin Begić, Alden Begić, Mirza Babić, Azra Durak-Nalbantić

Clinical Center University of Sarajevo, Sarajevo, Bosnia and Herzegovina
General Hospital "Prim.dr. Abdullah Nakas", Sarajevo, Bosnia and Herzegovina
Cantonal Hospital Bihać, Bihać, Bosnia and Herzegovina

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*ADDRESS FOR CORRESPONDENCE: Alen Džubur, Klinički Centar Univerziteta u Sarajevu, Bolnička 25, 71000 Sarajevo, Bosnia and Herzegovina. / Phone: +38761483259 / E-mail: alendzubur@gmail.com

ORCID: Alen Džubur, https://orcid.org/0000-0003-1198-540X • Edin Begić, https://orcid.org/0000-0001-6842-262X • Alden Begić, https://orcid.org/0000-0002-5374-0892 • Mirza Babić, https://orcid.org/0000-0001-7240-7940 • Azra Durak-Nalbantić, https://orcid.org/0000-0002-5176-8941

Aim: To connect the values of systolic and diastolic blood pressure at the admission of a patient with a diagnosis of pulmonary embolism (PE) with the values of the degree of pulmonary artery obstruction index (PAOI score).

Patients and Methods: Patients were hospitalized under a diagnosis of pulmonary embolism, which was confirmed on the basis of the following criteria: clinical picture, changes in the electrocardiogram (ECG), serum D-dimer values and computed tomography (CT) angiography with contrast. The PAOI score was determined according to CT findings. On admission, systolic, diastolic and pulse pressure were measured.

Results: The mean systolic blood pressure was 124.4 ± 27.75 mmHg, and there was a statistically significant correlation between the PAOI score and the systolic blood pressure (p = 0.004), with a significant negative correlation between the values of the PAOI score and the values of systolic blood pressure (r = -0.328, p = 0.018) (Figure 1). The mean value of diastolic blood pressure was 78.5 ± 14.06 mmHg. A statistically non-significant negative correlation between PAOI score and diastolic blood pressure value was verified (r = -0.149, p = 0.293). The mean value of pulse pressure was 45.21 ± 19.09 mmHg, with statistical significance between PAOI score and the value of pulse pressure (p = 0.001). A statistically significant negative correlation between PAOI score and pulse pressure value was verified (r = -0.366, p = 0.008).

Conclusion: Lower systolic blood pressure values are associated with more extensive pulmonary embolism.1
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![Graph showing systolic blood pressure values and pulmonary artery obstruction index score.]

**FIGURE 1.** Systolic blood pressure values and pulmonary artery obstruction index score.

**LITERATURE**