

## Outcomes in patients with heart failure with regard to statin therapy

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**KEYWORDS:** heart failure, statin therapy, outcome.

**CITATION:** *Cardiol Croat.* 2019;14(9-10):222. | <https://doi.org/10.15836/ccar2019.222>

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**Objective:** The aim of this study was to investigate whether statin therapy influenced outcomes in patients with acute heart failure (HF).<sup>1,2</sup>

**Patients and Methods:** Eighty five patients with diagnosis of HF were included in the study. For each patient the following data were obtained: gender, age, comorbidities and medications. New York Heart association (NYHA) class for heart failure was determined by physician evaluation and left ventricle ejection fraction (LVEF) was determined by echocardiography. Outcome points were: hospitalization, in-hospital death, mortality after 6 months, 1 year and 2 years. All-cause mortality included cardiovascular events or worsening heart failure.

**Results:** Mortality after 6 months, 1 year and 2 years was the most frequent in patients without statin therapy with a statistically significant difference ( $p = 0.001$ ). Progression of HF accounted for 31.7% of mortality in patients without statin therapy.

**Conclusion:** Statin therapy is associated with substantially better long-term outcomes in patients with HF.

**RECEIVED:**  
July 29, 2019

**ACCEPTED:**  
September 16, 2019



### LITERATURE

1. Alehagen U, Benson L, Edner M, Dahlström U, Lund LH. Association between use of statins and outcomes in heart failure with reduced ejection fraction: prospective propensity score matched cohort study of 21 864 patients in the Swedish Heart Failure Registry. *Circ Heart Fail.* 2015 Mar;8(2):252-60. <https://doi.org/10.1161/CIRCHEARTFAILURE.114.001730>
2. Preiss D, Campbell RT, Murray HM, Ford I, Packard CJ, Sattar N, et al. The effect of statin therapy on heart failure events: a collaborative meta-analysis of unpublished data from major randomized trials. *Eur Heart J.* 2015 Jun 21;36(24):1536-46. <https://doi.org/10.1093/eurheartj/ehv072>