

Prošireni sažetak / Extended abstract

## *Exercise testing to stratify risk in asymptomatic moderate and severe aortic stenosis*

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**Introduction:** The literature contains various data regarding the value of the exercise testing in patients with asymptomatic aortic stenosis (AS). *The aim:* To determine the importance of exercise testing in cardiovascular risk stratification in patients with moderate severe to severe aortic stenosis.

**Methods and Results:** Out of a total 33 patients with moderate severe to severe asymptomatic aortic stenosis (mean aortic area EOA  $0.9 \pm 0.34$  cm<sup>2</sup>) we followed up 31 patients (two were excluded) during the 12 months' period by clinical, transthoracic echocardiogram and treadmill stress testing. 18 (58%) patients discontinued the test due to limiting symptoms, and had severe aortic stenosis (EOA  $\leq 0.8$  cm<sup>2</sup>).

During the follow-up, 11 patients spontaneously developed severe symptoms within 12 months' period, of whom 8 underwent aortic valve replacement, one patient died (sudden cardiac death), and two patients had a stroke. A total of 20 patients remained free of any symptoms. The highest predictive value is EOA  $\leq 0.8$  cm<sup>2</sup> for the provoked symptom test and it is 85%. ST depression had the highest negative predictive value.

**Conclusion:** Only limiting symptoms with critical aortic of area (EOA  $\leq 0.8$  cm<sup>2</sup>) have a positive predictive value.

**KEYWORDS:** asymptomatic aortic stenosis, treadmill stress testing, prognosis.

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