

Kirurška zamjena aortnog zaliska u eri u transkateterske implantacije aortnog zaliska: ostaju li kirurzi bez posla?

Surgical aortic valve replacement in the era of transcatheter aortic valve implantation: are cardiac surgeons going out of business?

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Razvojem transkateterske ugradnje aortnog zaliska (TAVI), pojavila se alternativa etabliranom kirurškom liječenju aortne stenozе. Nakon početnih uspjeha u liječenju bolesnika s prohibitivno visokim kirurškim rizikom, recentno svjedočimo ekspanziji metode i na pacijente umjerenog i niskog rizika, "tradicionalno" kirurško područje s dugim iskustvom i odličnim rezultatima.

Rad donosi kratak povijesni prikaz razvoja TAVI procedure te pivotalnih i aktualnih istraživanja iz područja. Također, razmatra budući smjer razvoja metode i potencijalni utjecaj na ulogu kirurškog liječenja, kao i pojedine aspekte literature iz područja uz usporedbu sa vlastitim i literaturnim kirurškim rezultatima^{1,2} uz kritičko razmatranje konteksta istih.

With the development of transcatheter aortic valve implantation (TAVI) an alternative has emerged to an established surgical treatment of aortic stenosis. After initial success in treating patients with prohibitively high surgical risk, we have witnessed recent expansion of the method on patient groups of intermediate and low risk, a "traditional" surgical cohort, with long experience and excellent results of surgical treatment.

The paper involves a short history of the TAVI procedure development, review of pivotal and recent literature on the topic. Moreover, it discusses the future expansion of the method and its impact on surgical AVR, as well as critically appraises certain aspects of the literature^{1,2}, comparing them to own and surgical literature results.

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LITERATURE

1. Leon MB, Smith CR, Mack MJ, Makkar RR, Svensson LG, Kodali SK, et al; PARTNER 2 Investigators. Transcatheter or Surgical Aortic-Valve Replacement in Intermediate-Risk Patients. *N Engl J Med.* 2016 Apr 28;374(17):1609-20. <https://orcid.org/10.1056/NEJMoa1514616>
2. Reardon MJ, Van Mieghem NM, Popma JJ, Kleiman NS, Søndergaard L, Mumtaz M, et al; SURTAVI Investigators. Surgical or Transcatheter Aortic-Valve Replacement in Intermediate-Risk Patients. *N Engl J Med.* 2017 Apr 6;376(14):1321-1331. <https://orcid.org/10.1056/NEJMoa1700456>