

# New treatment methods for valvular heart disease: transcatheter approaches in interventional cardiology

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Valvular heart diseases represent one of the leading causes of cardiovascular morbidity and mortality, especially in developed countries, where the condition is associated with increased life expectancy and access to healthcare. Among the most common valvular diseases are aortic stenosis and mitral regurgitation, while the prevalence of aortic and tricuspid regurgitation has been rising, reaching epidemic proportions. Although surgical intervention has been the gold standard for treating these conditions for many years, a large proportion of elderly patients are not suitable candidates for invasive surgery. In the past two decades, new transcatheter treatment methods have been developed as a less invasive and effective alternative.<sup>1,2</sup> The aim of this presentation is to showcase the new transcatheter methods for treating valvular heart diseases used at the Interventional Cardiology Department of the University Hospital Center Rijeka, with a focus on their application and benefits for high-risk patients.

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## LITERATURE

1. Nishimura RA, Otto CM, Bonow RO, Carabello BA, Erwin JP 3rd, Fleisher LA, et al. 2017 AHA/ACC Focused Update of the 2014 AHA/ACC Guideline for the Management of Patients With Valvular Heart Disease: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. *Circulation.* 2017 Jun 20;135(25):e1159-e1195. <https://doi.org/10.1161/CIR.0000000000000503>
2. Mack MJ, Leon MB, Thourani VH, Makkar R, Kodali SK, Russo M, et al; PARTNER 3 Investigators. Transcatheter Aortic-Valve Replacement with a Balloon-Expandable Valve in Low-Risk Patients. *N Engl J Med.* 2019 May 2;380(18):1695-1705. <https://doi.org/10.1056/NEJMoa1814052>