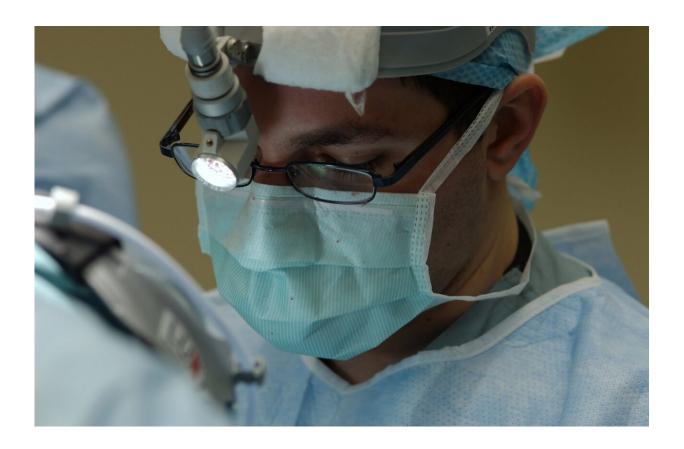


## Transcatheter valve replacement outcomes similar to surgery for severe aortic stenosis

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A new study demonstrates parity between a minimally invasive procedure to replace the aortic valve in the heart—transcatheter aortic valve replacement (TAVR)—and surgical aortic valve replacement (SAVR).



In the <u>meta-analysis</u> of <u>seven randomized trials</u>, published in the *Journal* of the Society for Cardiovascular Angiography & Interventions and presented at the 2024 EuroPCR conference in Paris, France, researchers compared the outcomes of 7,785 patients undergoing TAVR (a procedure that delivers a new aortic valve into the heart through a catheter) to those undergoing SAVR for severe aortic stenosis.

The study found no significant difference in death or disabling stroke between TAVR and SAVR patients (HR 1.02, 95% CI 0.93–1.11, p=0.70) with similar long-term mortality risks.

"This study represents the largest scale analysis so far available comparing longer-term percutaneous devices for <u>aortic valve</u> replacement versus surgery," said study co-author Eliano Pio Navarese, MD, Ph.D., head of clinical experimental cardiology and associate professor at the University of Sassari in Italy.

"Our findings support the comparable long-term safety and efficacy of TAVR, as well as raise important considerations for valve type selection, particularly when we are dealing with longer-term valve durability and pacemaker implantation."

The results were consistent across different surgical risk profiles (low, intermediate, and high). Compared with SAVR, TAVR was associated with an increased likelihood of needing a pacemaker and moderate-to-severe paravalvular leaks.

Notably, on a prespecified analysis, the study addressed the <u>outcomes</u> of two distinct TAVR devices versus SAVR. Compared with SAVR, self-expanding TAVR prostheses demonstrated lower death or stroke risk (P=0.06), valve thrombosis (P= 0.06), and valve gradients (P



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