

Two-year results of the CoreValve US Pivotal trial reported at TCT 2014

15 September 2014

In extended follow-up from a clinical trial, a self-expanding transcatheter aortic valve was shown to have low rates of all-cause mortality and major stroke. Findings were reported today at the 26th annual Transcatheter Cardiovascular Therapeutics (TCT) scientific symposium. Sponsored by the Cardiovascular Research Foundation (CRF), TCT is the world's premier educational meeting specializing in interventional cardiovascular medicine.

Degenerative [aortic stenosis](#) is a progressive disease with a poor prognosis in the absence of surgical [aortic valve](#) replacement. For [patients](#) at extreme risk for surgical complications, transcatheter aortic valve technologies offer a less invasive option of therapy for aortic stenosis. Previous trials have shown that a self-expanding transcatheter aortic valve was associated with low rates of all-cause [mortality](#) and major stroke at one year, but the long term effects of this device are unknown.

The CoreValve US Pivotal was a prospective, non-randomized single-arm, multicenter trial to determine the safety and efficacy of self-expanding TAVR at two-years in patients at extreme risk for surgery. The primary endpoint was a composite of all-cause mortality or major stroke rate at 12 months. Efficacy and safety outcomes at two years were also examined.

The study enrolled a total of 489 patients undergoing transfemoral self-expanding TAVR deemed to be at extreme risk for surgery. The one-year rate of all-cause mortality or major stroke was 26.0 percent (all-cause mortality, 24.3 percent; major stroke 4.3 percent). After two years, the rate of all-cause mortality or major stroke was 38.0 percent. Both one and two year rates of adverse outcomes compared favorably with historical performance criteria established among medically managed patients with aortic stenosis. Patients treated with the self-expanding TAVR device also

reported improvement in NYHA classifications, durable improvement in hemodynamic valve performance, and low rates of moderate or severe aortic insufficiency.

"The first year results from the CoreValve US Pivotal Trial support the safety and efficacy of this therapy in patients unsuitable for surgical [aortic valve replacement](#)," said lead investigator Steven Yakubov, MD. Dr. Yakubov is Medical Director, OhioHealth Research Foundation at OhioHealth.

"The two-year results confirm the improved survival benefit in these patients."

More information: The results of the CoreValve US Pivotal trial were presented on Saturday, September 13 at 12:00 PM EDT in the Main Arena (Level 3, Ballroom) of the Walter E. Washington Convention Center.

Provided by Cardiovascular Research Foundation

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