

The COMMENCE aortic trial is a FDA pivotal study advances beyond the mid-term trial designed to evaluate the safety and period, direct and indirect measures of

Study Introduction & Key Points

effectiveness of a bioprosthetic valve with RESILIA tissue. As the follow up time in this

durability of valves with RESILIA tissue will be highlighted.

Key Points



As bioprosthetic aortic valve replacement (AVR) extends to

Tissue durability

- younger patients, tissue durability is becoming of paramount importance 65.1 mean age Data demonstrate excellent outcomes in a study of younger
- patients



Data show high rates of

- freedom for a variety of events
- through 7 years Freedom from all-cause mortality
 - Freedom from structural valve deterioration (SVD)

Freedom from reintervention

Study Methods & Patient Demographics



Strong hemodynamic

- performance

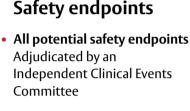
Methods



27 clinical sites Study subjects enrolled in U.S.,

- Canada, and Europe Patient re-consent at 5 years
- Performed for extended (years 6-10) follow-up Extended follow-up

10 sites participating



SVD and other safety outcomes Defined per "Guidelines for reporting morbidity and mortality after cardiac valve

interventions" (Akins et al. 2008) **Patient Demographics**



laboratory Evaluated hemodynamic performance

- New York Heart Association (NYHA) functional class

 $65.1 \pm$

years mean age

Probability event-free

@ 7 years

(%) (95% CI)

85.4(82.2 - 88.7)

94.0 (92.1 - 95.9)

99.4 (98.6 – 100.0)

90.9 (88.1 – 93.8) 97.3 (95.8 – 98.7)

Freedom from valve

thrombosis

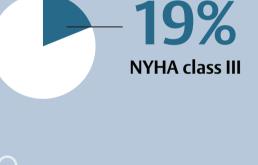
patients 2.1% Reconsented for extended

follow-up

225

NYHA class II, and

STS risk score





All-cause mortality Stroke

Valve thrombosis

Endpoint

Major bleeding 5 (0.7%) 45 **Endocarditis** 0(0%)15 Major DVI † 1 (0 1%)

99.3%

Freedom from SVD

Safety endpoints, probability event-free at 7 years

Early (≥30 POD)

events (%)

8 (1.2%)

11 (1.6%)

0 (0%)

| Major PVL† | 1 (0.1%) | 3 | 99.5 (99.0 – 100.0) |
|---|--------------------------------|----|--------------------------------|
| SVD | 0 (0%) | 2 | 99.3 (98.3 – 100.0) |
| Reoperation | 1 (0.1%) | 12 | 97.2 (95.5 – 99.0) |
| [†] Major paravalvular leak is paravalvular leak of any grade requiring surgical intervention or considered an SAE | | | |
| Outcomes @ 7 years (Kaplan-Meier analyses) | | | |
| Fre | 5.4% edom from cause mortality | | 97.2% Freedom from reoperation |

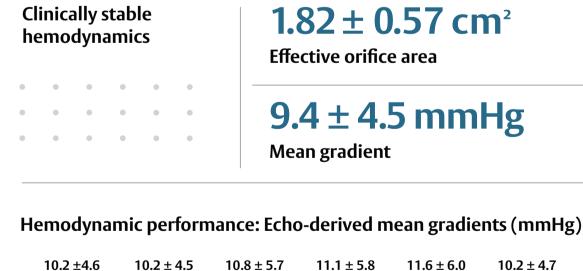
Cumulative

events @ 7 years

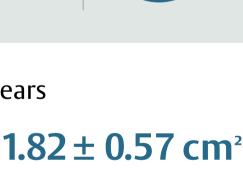
78

37

2



Hemodynamics @ 7 years



 11.6 ± 6.0 10.2 ± 4.7 9.4 ± 4.5 N = 445N = 150N = 157

20 15

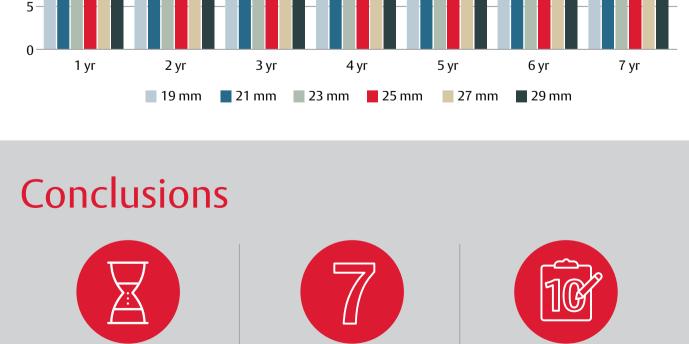
N = 586

N = 631

25

10

N = 548



Excellent outcomes

through 7 years

through 7 years, the

COMMENCE trial

With excellent outcomes

N = 506

7-year data from the **COMMENCE** aortic trial represents the longest

follow-up after AVR with

Longest follow-up

RESILIA tissue in a large IDE trial utilizing an independent clinical events committee and an echocardiography core laboratory Important Safety Information: RESILIA Tissue Devices

demonstrates encouraging results for bioprostheses with **RESILIA** tissue

Indications: INSPIRIS RESILIA Aortic Valve - For use in replacement of native or prosthetic aortic heart valves. KONECT RESILIA Aortic Valved Conduit - For use in replacement of native or prosthetic aortic heart valves and the associated repair or replacement of a damaged



RESILIA tissue

or diseased ascending aorta. MITRIS RESILIA Mitral Valve - For use in replacement of native or prosthetic mitral heart valves. Contraindications: There are no known contraindications with the use of these RESILIA tissue heart valve devices. Complications and Side Effects: INSPIRIS RESILIA Aortic Valve - Thromboembolism, valve thrombosis, hemorrhage, hemolysis,

hemorrhage, thrombosis, graft infection, embolism, aneurysm, pseudoaneurysm, seroma, occlusion (anastomotic intimal hyperplasia), $immunological \ reaction\ to\ collagen\ (shown\ to\ be\ a\ weak\ immunogen;\ infrequent,\ mild,\ localized\ and\ self-limiting),\ intimal\ peel\ formation,$ $and \ conduit \ dilatation. \ \textbf{MITRIS} \ \textbf{RESILIA} \ \textbf{Mitral Valve} - Thromboembolism, valve \ thrombosis, hemorrhage, hemolysis, regurgitation, and the property of the$ $endoc arditis, structural \ valve \ deterior ation, nonstructural \ dysfunction, stenosis, arrhythmia, transient is chemic \ attack/stroke, congestive$ heart failure, myocardial infarction, ventricular perforation by stent posts, any of which could lead to reoperation, explantation, permanent disability, and death. Warnings: INSPIRIS RESILIA Aortic Valve - DO NOT ADJUST THE VALVE DIAMETER BY EXPANDING THE BAND PRIOR TO OR DURING IMPLANTATION OF THE SURGICAL VALVE. The expandable band is not designed to allow for compression or expansion during implantation of the surgical valve. This will cause damage to the valve and may result in aortic incompetence. DO NOT PERFORM STAND-ALONE

regurgitation, endocarditis, structural valve deterioration, nonstructural dysfunction, stenosis, arrhythmia, transient ischemic $attack/stroke, congestive\ heart\ failure, myocardial\ infarction, any\ of\ which\ could\ lead\ to\ reoperation,\ explantation,\ permanent\ disability,\ permanent\ disabili$ $and \ death. \ Additional \ adverse \ events \ potentially \ associated \ with the use of polyester \ vascular \ grafts in the \ KONECT \ RESILIA \ AVC \ include$

BALLOON AORTIC VALVULOPLASTY PROCEDURES ON THIS VALVE FOR THE SIZES 19 - 25 mm as this may expand the valve causing aortic incompetence, coronary embolism or annular rupture. Valve-in-valve sizing in the INSPIRIS valve has only been tested with specific Edwards transcatheter heart valves. Use of other transcatheter valves may result in embolization of transcatheter devices anchored within or result in annular rupture. CAUTION: Federal (USA) law restricts these devices to sale by or on the order of a physician. See instructions for use for full prescribing information. $1.\,Beaver\,T, Bavaria, JE, Griffith\,B, et\,al.\,Seven-year\,out comes\,following\,aortic\,valve\,replacement\,with\,a\,novel\,tissue\,bioprosthesis.\,Presented\,Argonics and Argonics and Argonics are also become a contract of the properties of the properties$

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at the 103rd Annual Meeting of the American Association for Thoracic Surgery, May 2023 $\,$

Edwards