TAVR/SAVR u pacientů s nízkým rizikem: LIMITACE TAVR

Aortální patologie – máme společný cíl

24. sympozium PS CHLOPENNÍ A VROZENÉ VADY V DOSPLĚLOSTI

Jan Vojáček

Kardiochirurgická klinika FN a LV v Hradci Králové



2022: a year of milestones

20th Anniversary of TAVI (FIM)

15th Anniversary of comnercial approval in Europe



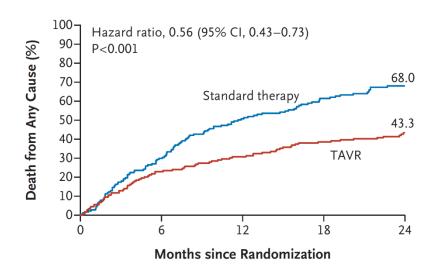
April 16, 2002

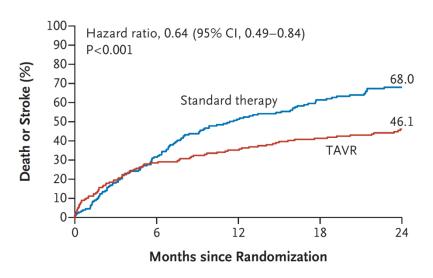
8 days post implantation

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Transcatheter Aortic-Valve Replacement for Inoperable Severe Aortic Stenosis





The NEW ENGLAND JOURNAL of MEDICINE

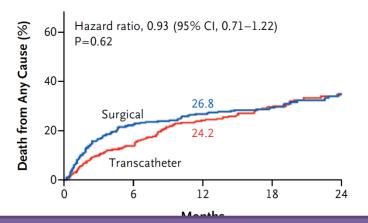
ESTABLISHED IN 1812

JUNE 9, 2011

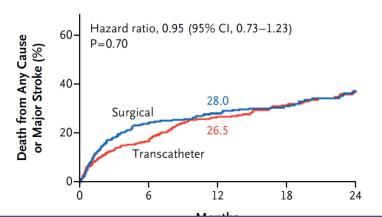
VOL. 364 NO. 23

Transcatheter versus Surgical Aortic-Valve Replacement in High-Risk Patients

A Death from Any Cause, All Patients



D Death from Any Cause or Major Stroke



TAVI was NON — INFERIOR

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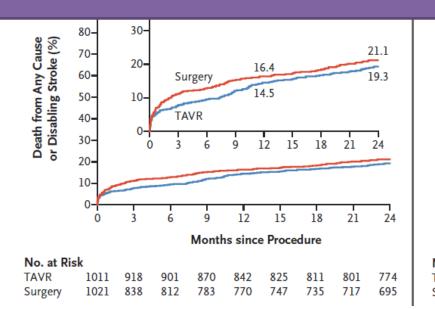
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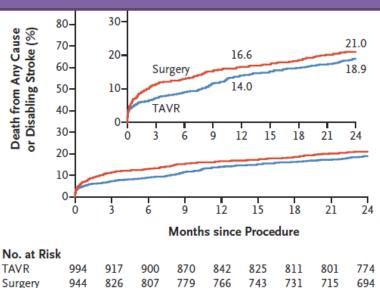
APRIL 28, 2016

VOL. 374 NO. 17

Transcatheter or Surgical Aortic-Valve Replacement in Intermediate-Risk Patients

TAVI was NON – INFERIOR



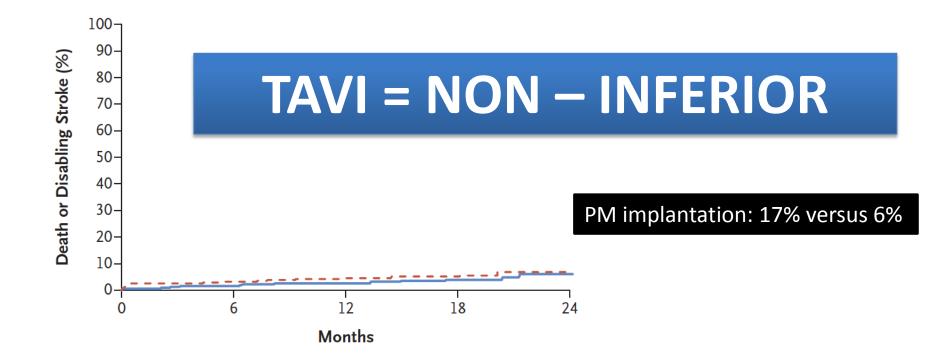


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EVOLUT LOW RISK TRIAL

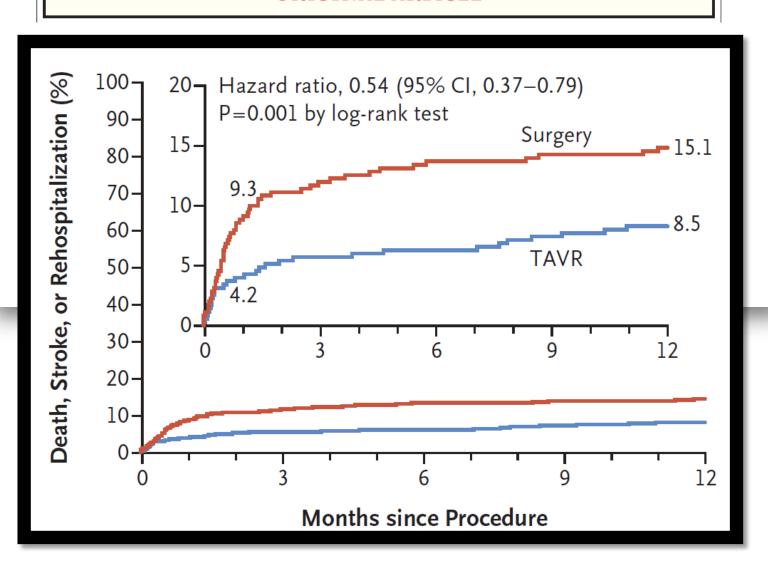
ORIGINAL ARTICLE

Transcatheter Aortic-Valve Replacement with a Self-Expanding Valve in Low-Risk Patients





ORIGINAL ARTICLE



FDA NEWS RELEASE

FDA expands indication for several transcatheter heart valves to patients at low risk for death or major complications associated with open-heart surgery



For Immediate Release:

August 16, 2019

The U.S. Food and Drug Administration today approved an expanded indication for several transcatheter heart valves to include patients with severe aortic valve stenosis (a narrowing of the heart's aortic valve that restricts blood flow to aorta, the body's main arte v) who are at low risk for death or major complications associated with open-heart surgery to replace the damaged valves. These transcatheter valves — Sapien 3, Sapien 3 Ultra, CoreValve Evolut R and CoreValve Evolut PRO — were previously indicated only for patients at intermediate or higher risk for death or major complications during open-heart surgery. In low risk patients, open-heart surgery has been the standard-of-care for aortic valve replacement. However, the procedure to insert a transcatheter heart valve is less invasive, and involves a smaller incision and shorter recovery time than open-heart surgery. The FDA is the first medical products regulatory body in the world to expand the indication for these devices to patients at low risk for death or major complications associated with open-heart surgery.

2020 ACC/AHA Guideline for the Management of Patients With Valvular Heart Disease: Executive Summary

A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines

Developed in collaboration with and endorsed by the American Association for Thoracic Surgery, American Society of Echocardiography, Society for Cardiovascular Angiography and Interventions, Society of Cardiovascular Anesthesiologists, and Society of Thoracic Surgeons

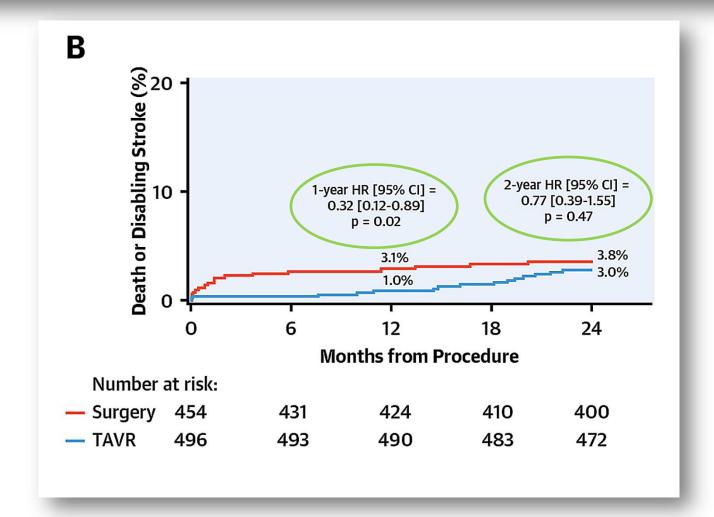
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^{*}Writing committee members are required to recuse themselves from voting on sections to which their specific relationships with industry may apply; see Appendix 1 in the full guideline for detailed information. †ACC/AHA Joint Committee on Clinical Practice Guidelines Liaison.

Outcomes 2 Years After Transcatheter Aortic Valve Replacement in Patients at Low Surgical Risk



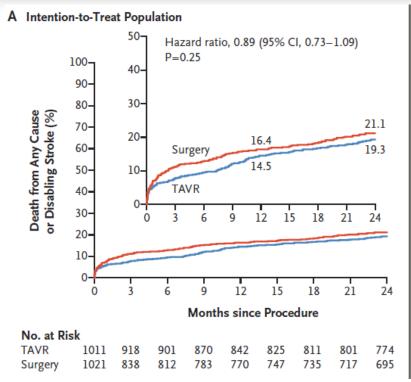
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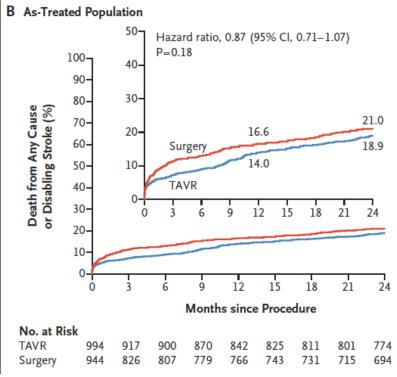
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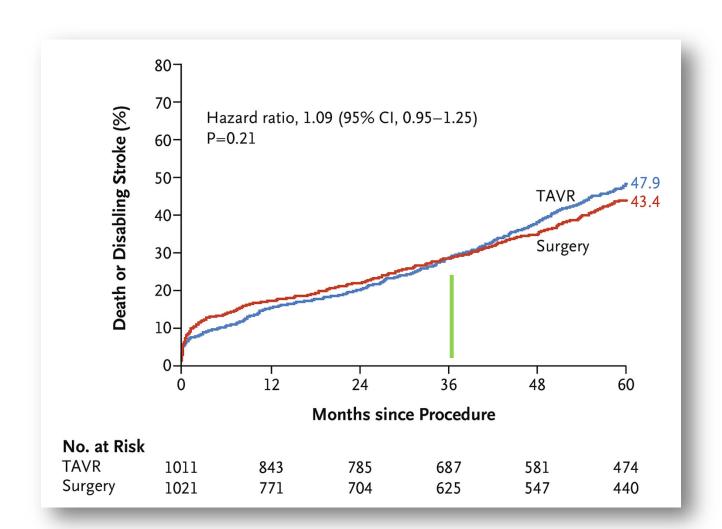
Transcatheter or Surgical Aortic-Valve Replacement in Intermediate-Risk Patients





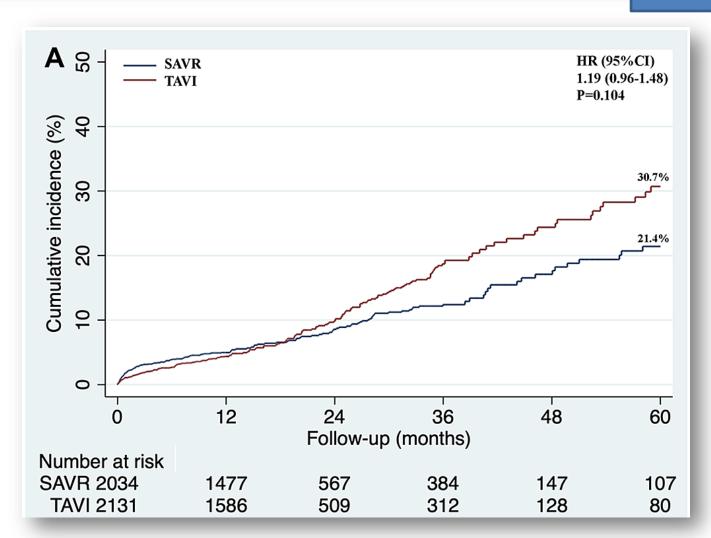
Five-Year Outcomes of Transcatheter or Surgical Aortic-Valve Replacement

PARTNER 2

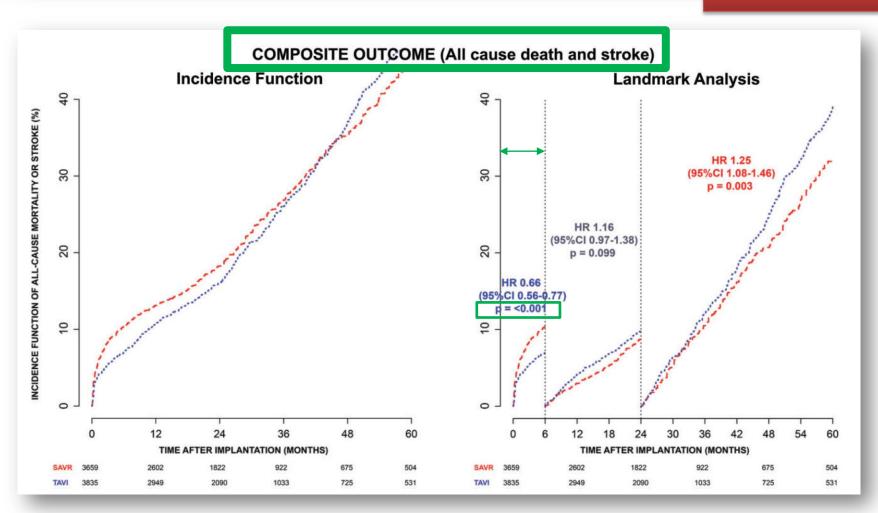


Mortality in low-risk patients with aortic stenosis undergoing transcatheter or surgical aortic valve replacement: a reconstructed individual patient data meta-analysis

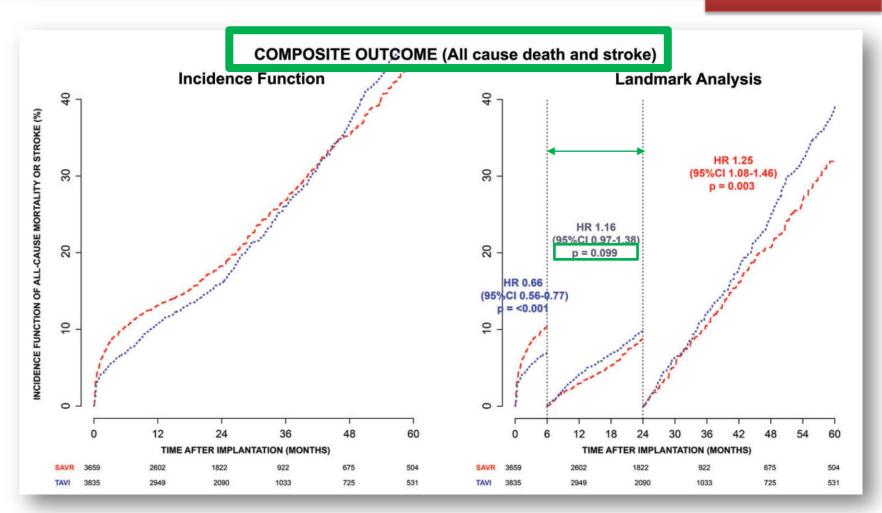
ICVTS 2020



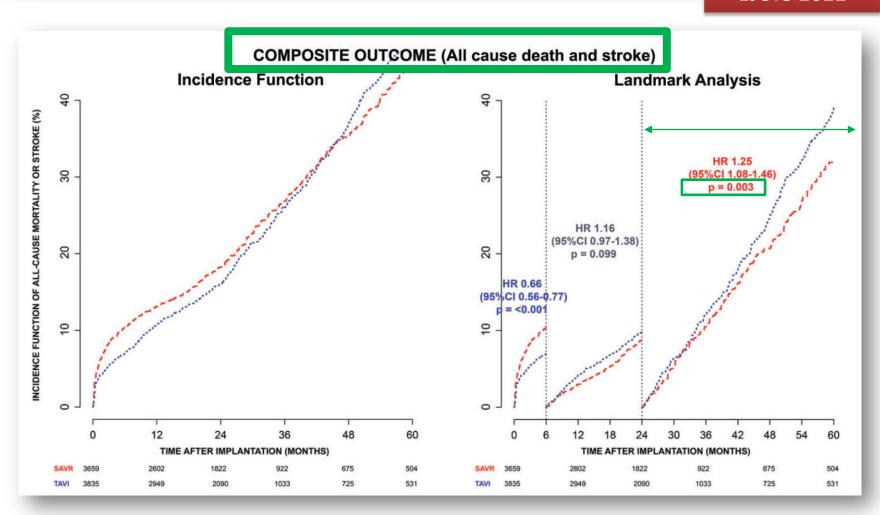
EJCTS 2022

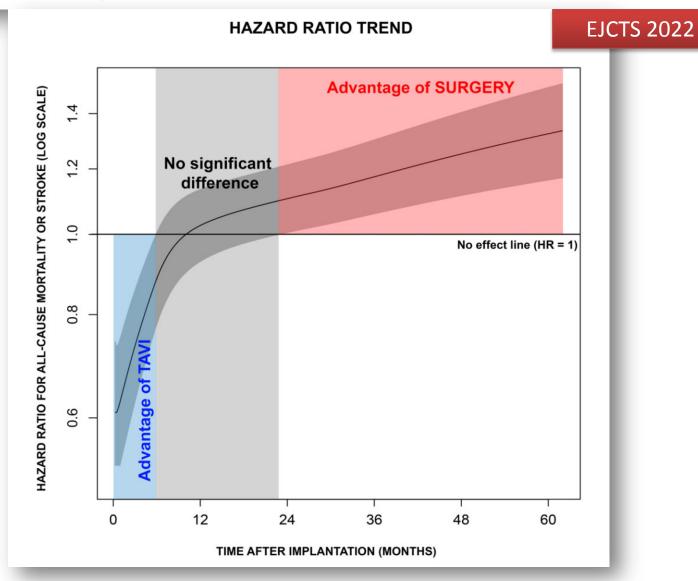


EJCTS 2022

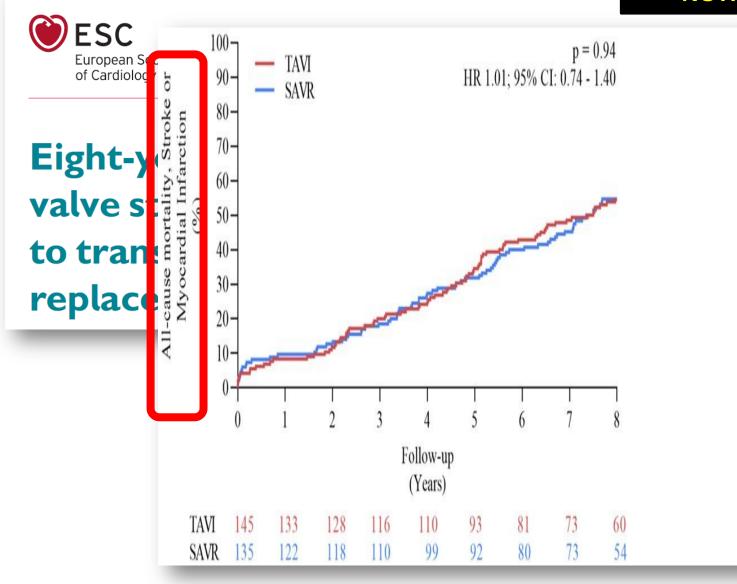


EJCTS 2022





NOTION TRIAL

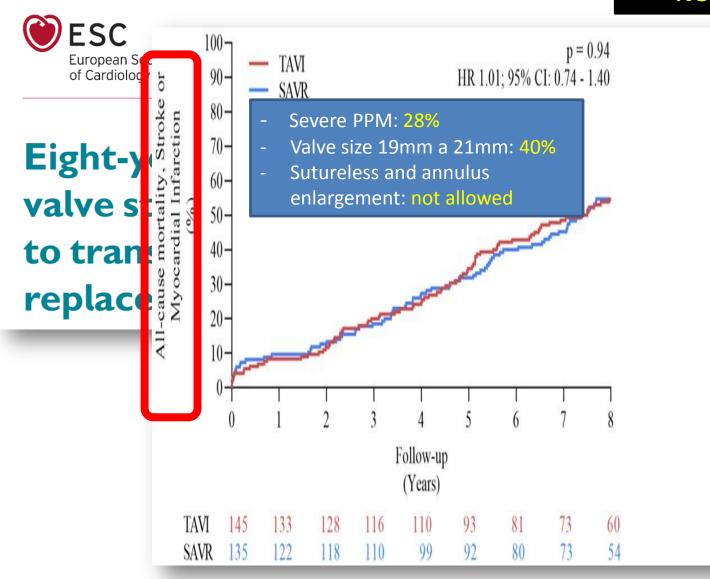


RESEARCH

ılar heart disease

rtic ized

NOTION TRIAL



RESEARCH

ılar heart disease

rtic ized

CONCLUSIONS

 TAVI: an excellent options for high-risk and selected intermediate risk patients (HEART TEAM)

Limitations of TAVI

- Durability
- Subclinical leaflet thrombosis
- PVL AR
- PM
- Vascular complication
- Annular rupture
- BAV
- No TAVI: low-risk patients, normal life expectancy limited long-term data supporting TAVI in low-risk patients

Postavení chirurgie aortální chlopně v éře TAVI:

Are we dinosaurs?

20. Symposium Pracovní skupiny Chlopenní a vrozené

srdeční vady v dospělosti

Jan Vojáček Kardiochirurgická klinika LF UK a FN HK Komplexní kardiovaskulární centrum FN HK



