# SAPIEN 3 Ultra RESILIA valve: 1-year real-world outcomes with significant mortality benefits for patients

### Introduction

As TAVI becomes the preferred treatment option for symptomatic severe aortic stenosis even in younger and low-risk patients, lifetime management and valve durability have become paramount for the Heart Team's decision-making on valve selection

### Aim

Compare 1-year clinical and echocardiographic outcomes of native TAVI with the SAPIEN 3 Ultra RESILIA valve versus earlier generation SAPIEN 3 and **SAPIEN 3 Ultra valves** 

### Study design

Data from US STS/ACC TVT Registry from over 4,500 propensity-matched pairs (N=4,598)

# Key patient demographics (±SD)

Mean age of **76.7 years** (8.8) STS score of 3.6% (3.5)

### **Endpoints**

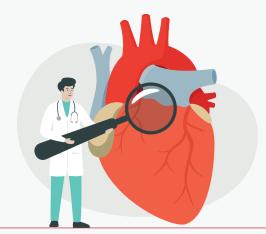
Primary: 1-year mortality, stroke and combined mortality or stroke

Secondary: Echocardiographic and functional outcomes

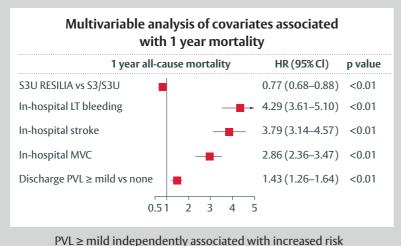
### Abbreviations

ACC: American College of Cardiology; Cl: confidence interval; HR: hazard ratio; KCCQ-OS: Kansas City Cardiomyopathy Ouestionnaire Overall Summary Score; LT: life-threatening; MVC: major vascular complication: NYHA: New York Heart Association; PVL: paravalvular leak; SD: standard deviation; STS: Society of Thoracic Surgeons; TAVI: transcatheter aortic valve implantation: TVT: transcatheter valve therapy.

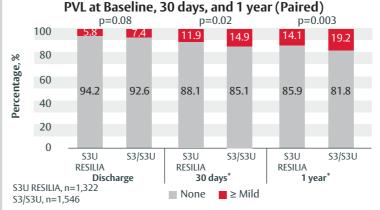
Kini AS, Tang GHL, Yaryura R et al. One-year real-world outcomes of TAVR with the fifth-generation balloon expandable valve in the United States. JACC Cardiovasc Interv. 2024: doi:10.1016/i.icin.2024.11.015

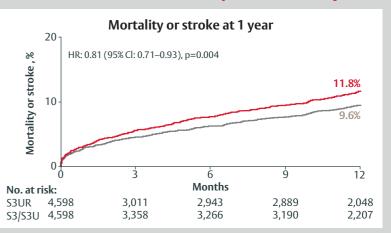


# Enhanced clinical and echocardiographic outcomes with the SAPIEN 3 Ultra RESILIA valve: superior performance and reduced complications at 1 year



of 1-year mortality

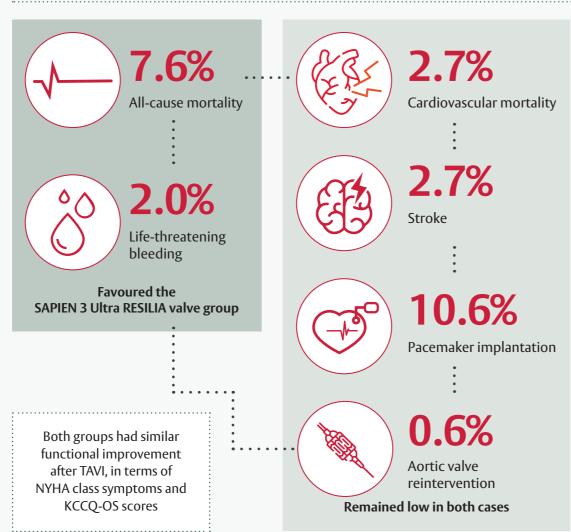




\*Significantly lower PVL rates for the SAPIEN 3 Ultra RESILIA than for the SAPIEN 3 and SAPIEN 3 Ultra valves

Significantly lower 1-year mortality or stroke for the SAPIEN 3 Ultra RESILIA valve than for the SAPIEN 3 and SAPIEN 3 Ultra valves

# **Outcomes at 1 year**



# **Mortality benefits**

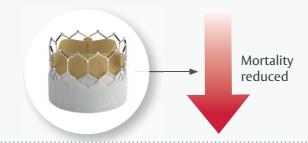




SAPIEN 3/SAPIEN 3 Ultra valve

9.7%

# Significantly lower PVL with the SAPIEN 3 Ultra RESILIA valve



The use of the SAPIEN 3 Ultra RESILIA valve itself was an independent predictor of improved survival. The effect appeared to be driven by reduced PVL and life-threatening bleeding, both of which were associated with lower 1-year all-cause mortality

## **Conclusions**

1 Year results of the SAPIEN 3 Ultra RESILIA valve benefitting patients clinical outcomes

The mortality benefit was mainly driven by a significant reduction in PVL at 30 days and 1 year

The SAPIEN 3 Ultra RESILIA valve has strong indications for lifetime management, including younger, low-risk patients



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No clinical data are available to evaluate the long-term impact of RESILIA tissue in patients. Additional clinical data for up to 10 years of follow-up are being collected to monitor the long-term safety and performance of RESILIA tissue. Medical device for professional use. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use (consult eifu.edwards.com where applicable).

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