



28-30
JANVIER
2026

MARSEILLE
PALAIS DU PHARO

Les nouveautés du TAVI

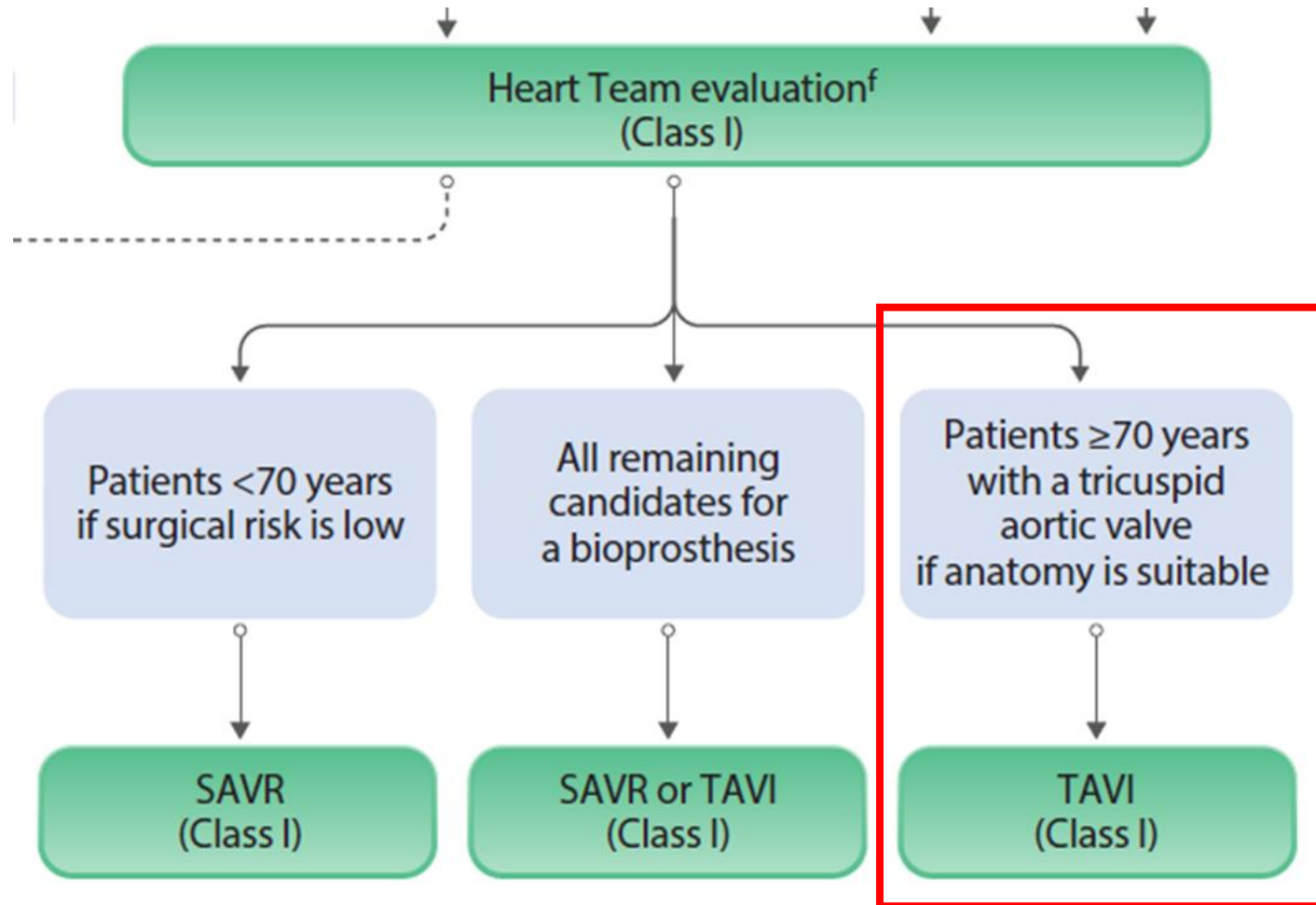
Eric Durand, Rouen

Conflits d'intérêt

Consultant pour Edwards Lifesciences



Le TAVI dès 70 ans

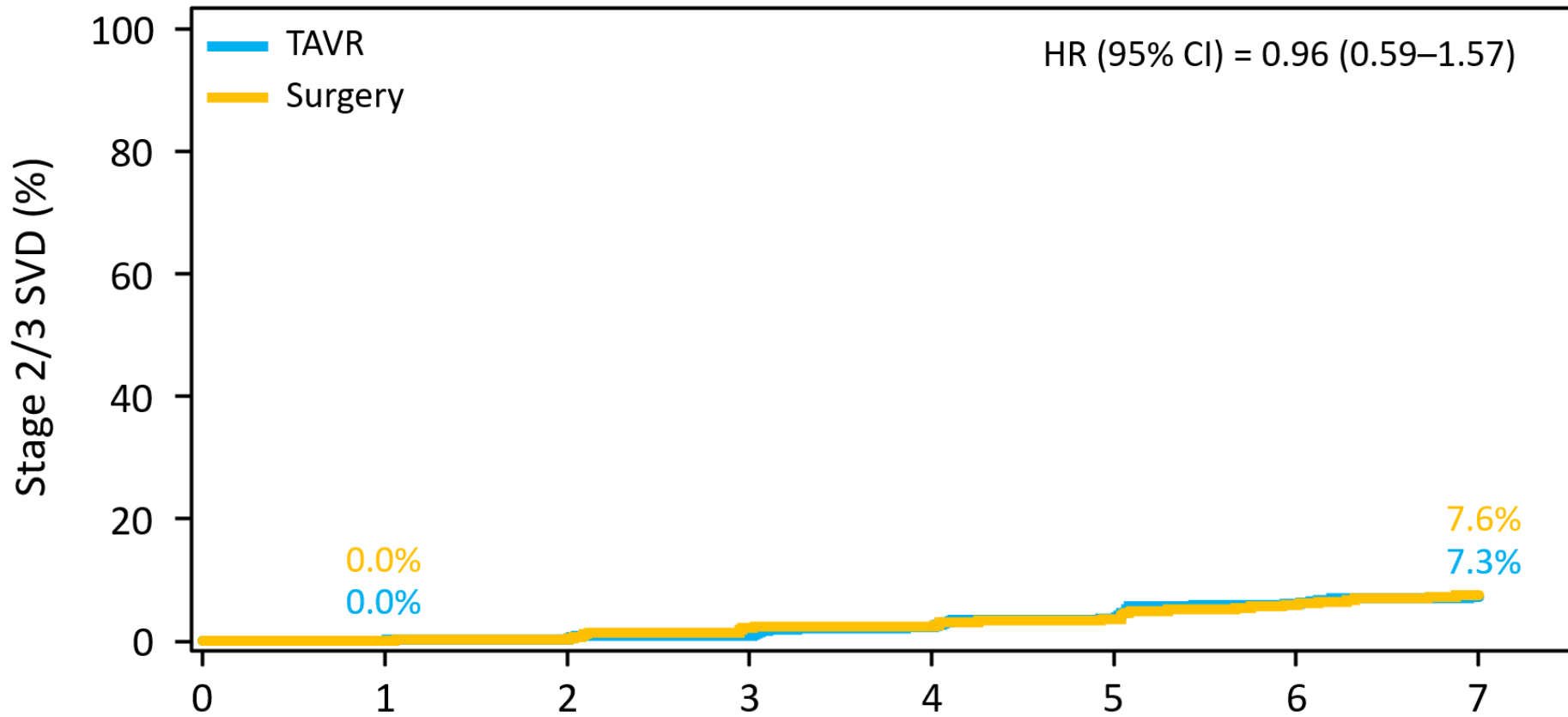


4000 patients/an
Entre 70-75 ans



ChatGPT

Durabilité des bioprothèses percutanées à 7 ans

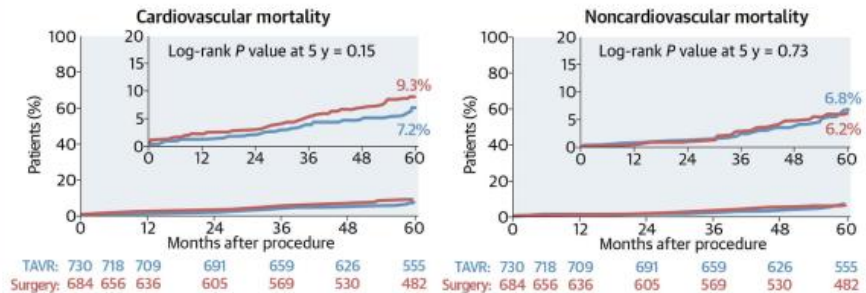
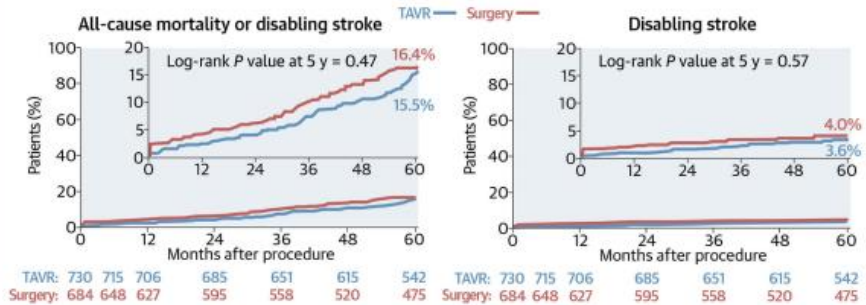
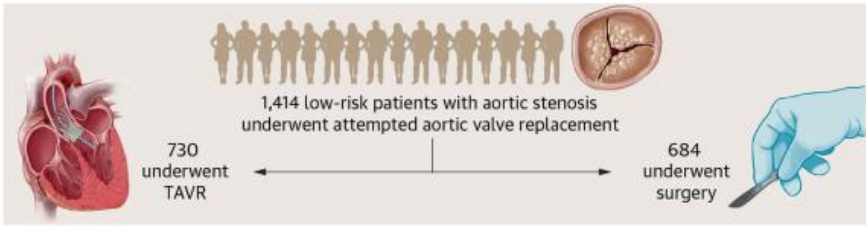


Durabilité des bioprothèses percutanées à 5 ans

2



CENTRAL ILLUSTRATION: 5-Year Outcomes After Transcatheter or Surgical Aortic Valve Replacement



Transcatheter and surgical aortic valve replacement had comparable rates of all-cause mortality or disabling stroke with sustained outcomes over 5 years

Forrest JK, et al. JACC. 2025;85(15):1523-1532.

TABLE 1 5-Year Clinical Outcomes

	TAVR (n = 730)	Surgery (n = 684)	HR (95% CI)	P Value (Log-Rank)
All-cause mortality or disabling stroke	108 (15.5)	104 (16.4)	0.90 (0.69-1.18)	0.47
All-cause mortality	94 (13.5)	93 (14.9)	0.88 (0.66-1.17)	0.39
Cardiovascular death	49 (7.2)	57 (9.3)	0.75 (0.51-1.11)	0.15
Noncardiovascular death	45 (6.8)	36 (6.2)	1.08 (0.70-1.67)	0.73
All-cause mortality with vital status sweep	106 (14.7)	99 (15.2)	0.96 (0.73-1.26)	0.74
All-stroke	66 (9.5)	54 (8.6)	1.11 (0.77-1.59)	0.58
Disabling stroke	24 (3.6)	25 (4.0)	0.85 (0.49-1.49)	0.57
Aortic valve hospitalization	93 (13.9)	91 (15.1)	0.89 (0.67-1.19)	0.44
Major vascular complication	30 (4.1)	26 (3.9)	1.07 (0.64-1.82)	0.79
Myocardial infarction	40 (6.0)	22 (3.6)	1.63 (0.97-2.75)	0.06
Permanent pacemaker implant	185 (27.0)	69 (11.3)	2.70 (2.04-3.55)	<0.001
Atrial fibrillation	114 (16.3)	278 (41.2)	0.32 (0.25-0.39)	<0.001
Valve endocarditis	9 (1.4)	15 (2.5)	0.52 (0.23-1.20)	0.12
Reintervention	21 (3.3)	14 (2.5)	1.30 (0.66-2.56)	0.44
Total valve thrombosis	6 (0.9)	4 (0.6)	1.36 (0.38-4.82)	0.63
Clinical ^a	2 (0.3)	1 (0.2)	1.84 (0.17-20.24)	0.61
Subclinical ^b	4 (0.6)	3 (0.5)	1.20 (0.27-5.37)	0.81

Ra serré asymptomatique et fibrose myocardique

JAMA

QUESTION Is early aortic valve intervention superior to guideline-directed conservative management in asymptomatic patients with severe aortic stenosis and myocardial fibrosis?

CONCLUSION In asymptomatic patients with severe aortic stenosis and myocardial fibrosis, early aortic valve intervention had no demonstrable effect on all-cause death or unplanned aortic stenosis-related hospitalization.

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POPULATION

161 Men
63 Women



Asymptomatic patients with severe aortic stenosis and myocardial fibrosis

Mean age: 73 years

LOCATION

24
Cardiac centers
in Australia and the UK



INTERVENTION



224 Patients randomized

113

Early intervention

Early valve intervention with transcatheter or surgical aortic valve replacement

111

Conservative management

Guideline-directed conservative management

PRIMARY OUTCOME

Composite of all-cause death or unplanned aortic stenosis-related hospitalization

FINDINGS

Occurrence of composite primary outcome

Early intervention

18%

20 of 113 patients

Conservative management

23%

25 of 111 patients

The difference was not statistically significant:

Between-group difference, **-4.82%**
(95% CI, -15.31% to 5.66%); P = .37

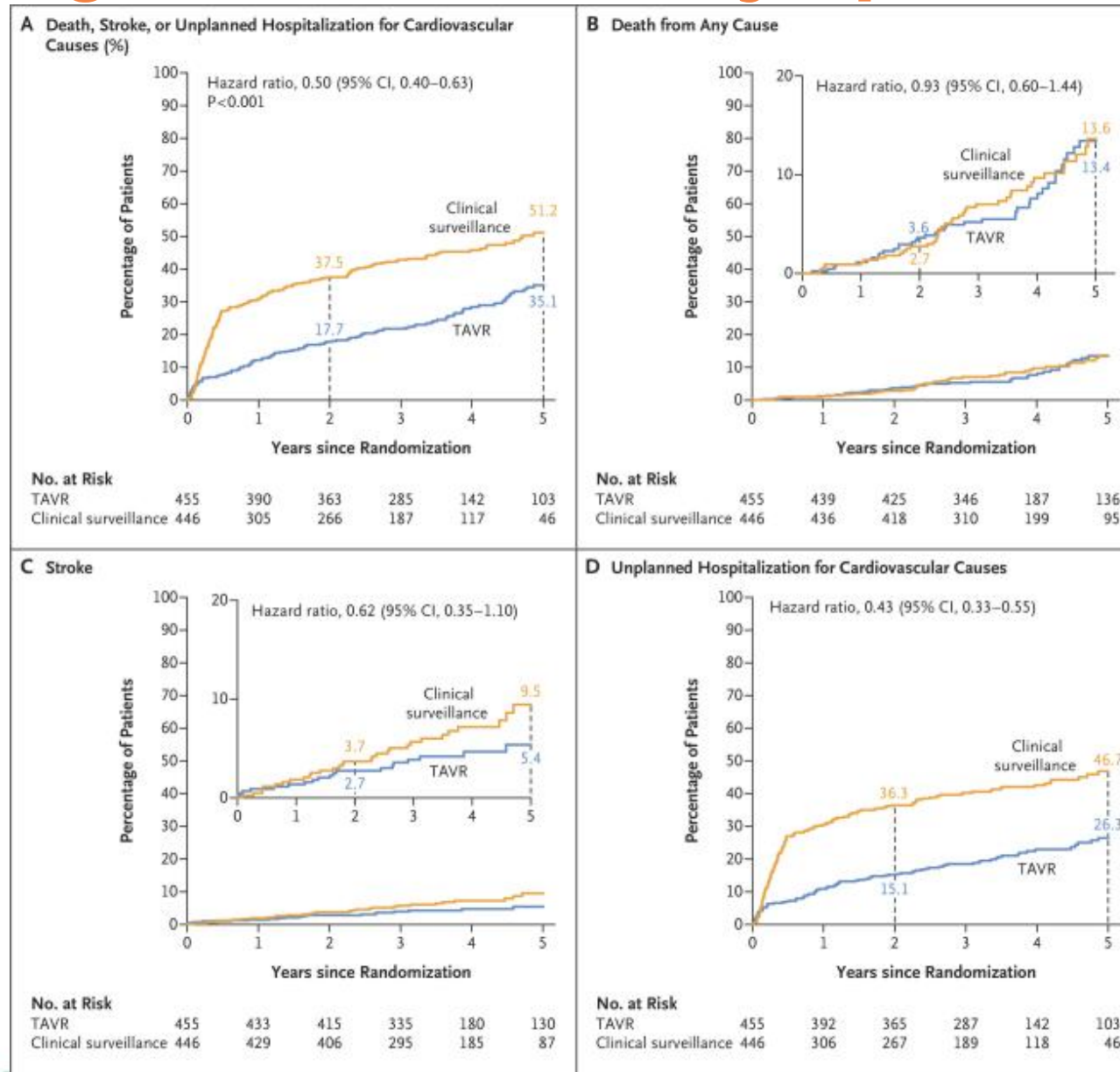
Hazard ratio, **0.79**
(95% CI, 0.44 to 1.43); P = .44

Loganath K, Craig NJ, Everett RJ, et al; EVOLVED Investigators. Early intervention in patients with asymptomatic severe aortic stenosis and myocardial fibrosis: the EVOLVED randomized clinical trial. *JAMA*. Published online October 28, 2024. doi:10.1001/jama.2024.22730

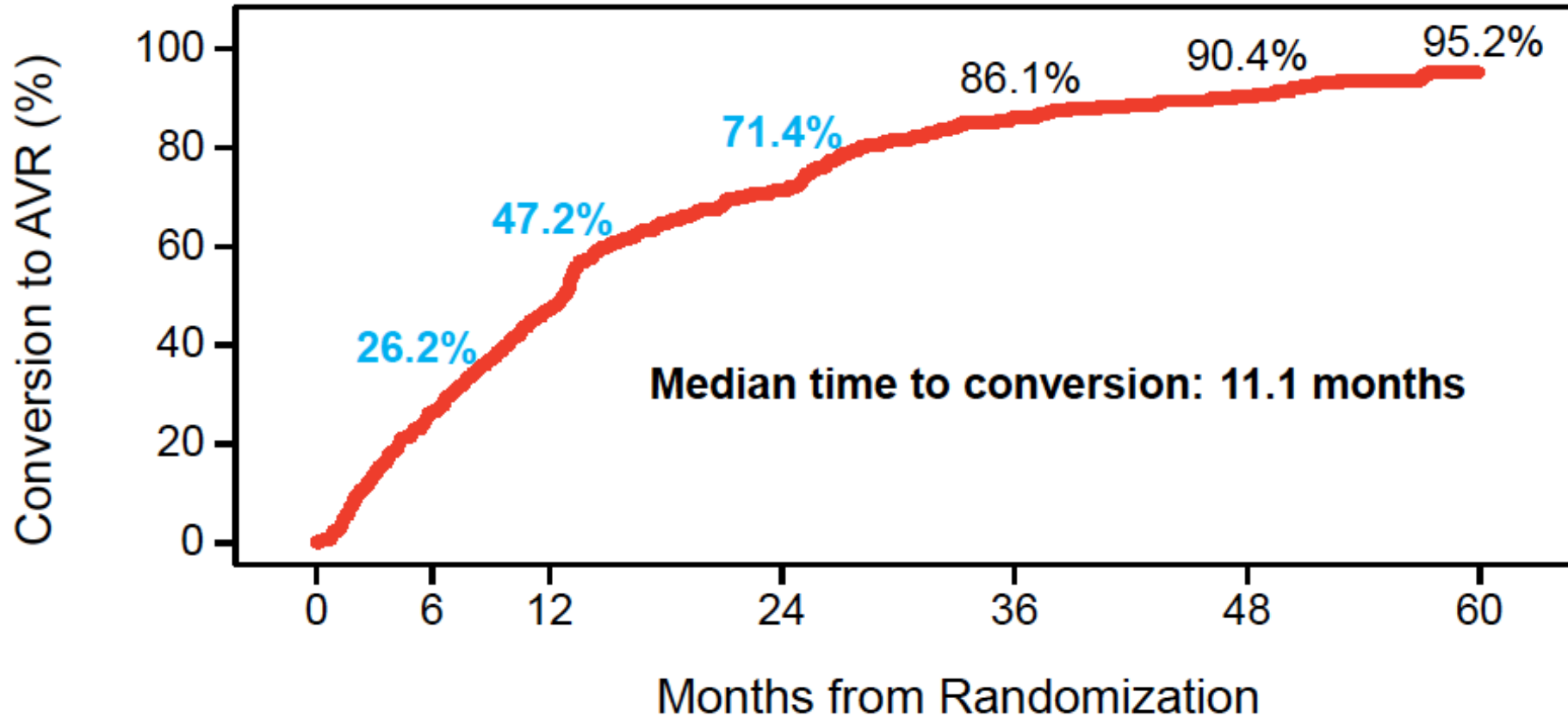
Prise en charge du RA serré asymptomatique



EARLY TAVR



Prise en charge du RA serré asymptotique



No. at risk:

Months from Randomization	0	6	12	24	36	48	60
Clinical Surveillance	446	326	231	119	45	22	9

Prise en charge du RA asymptomatique

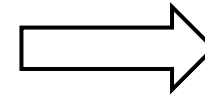
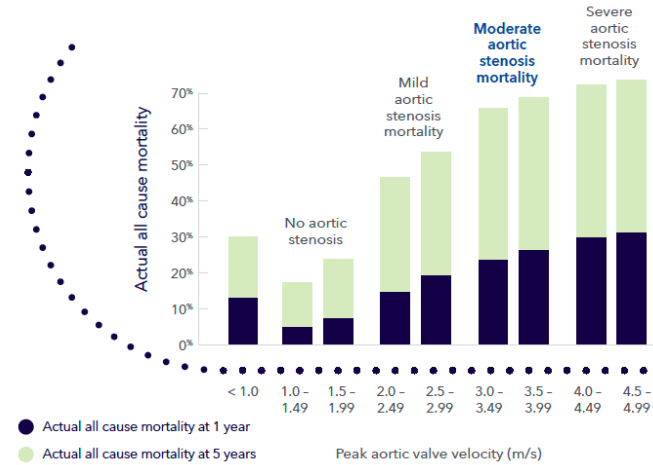
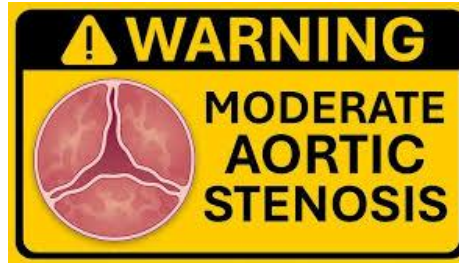


Intervention is recommended in asymptomatic patients with severe AS and LVEF <50% without another cause. ^{14,354-359}	I	B
Intervention should be considered in asymptomatic patients (confirmed by a normal exercise test, if feasible) with severe, high-gradient AS and LVEF \geq 50% as an alternative to close active surveillance, if the procedural risk is low. ^{360-363,367,368}	IIa	A
Intervention should be considered in asymptomatic patients with severe AS and LVEF \geq 50% if the procedural risk is low and one of the following parameters is present: <ul style="list-style-type: none">• Very severe AS (mean gradient \geq60 mmHg or V_{\max} >5.0 m/s).^{14,362,363,482-484}• Severe valve calcification (ideally assessed by CCT) and V_{\max} progression \geq0.3 m/s/year.^{303,353,364}• Markedly elevated BNP/NT-proBNP levels (more than three times age- and sex-corrected normal range, confirmed on repeated measurement without other explanation).^{97,365}• LVEF <55% without another cause.^{14,354,356-359}	IIa	B
Intervention should be considered in asymptomatic patients with severe AS and a sustained fall in BP (>20 mmHg) during exercise testing.	IIa	C

Prise en charge du RA modéré



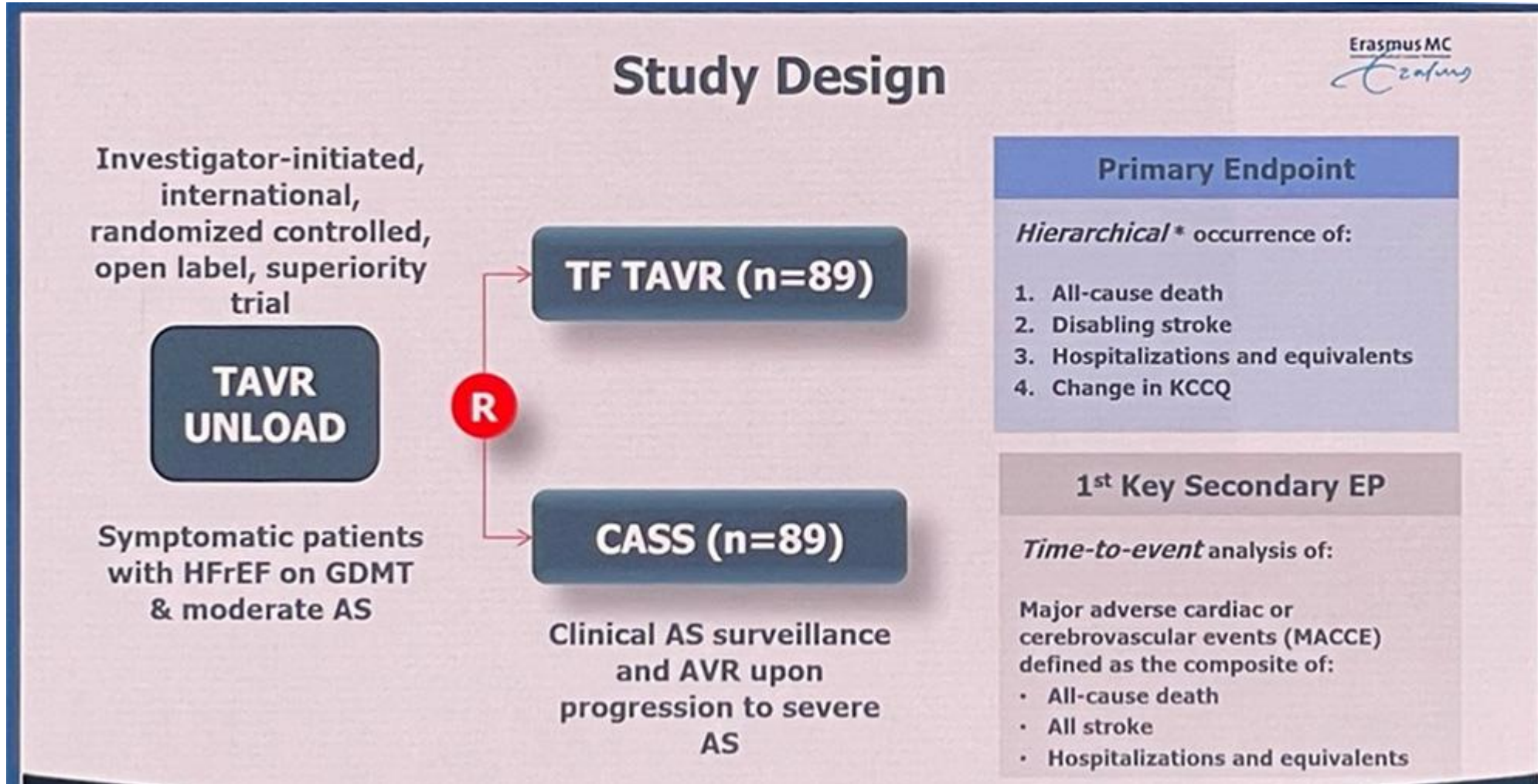
Surveillance



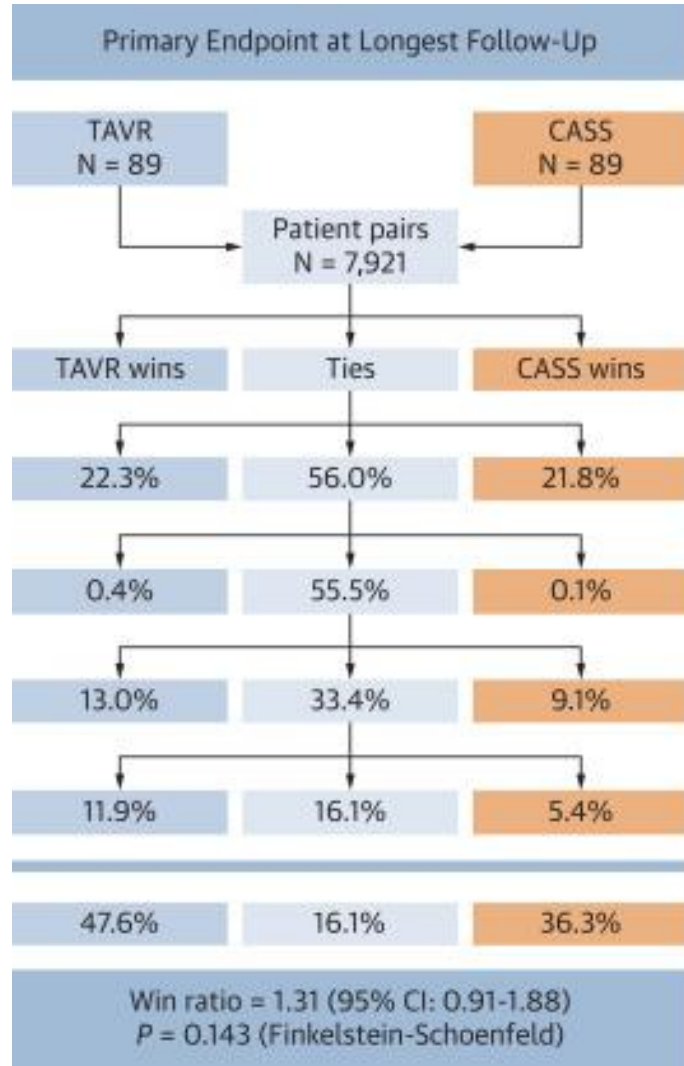
Pelacarsen

**PCSK9
INHIBITOR**

Prise en charge du RA modéré et IC

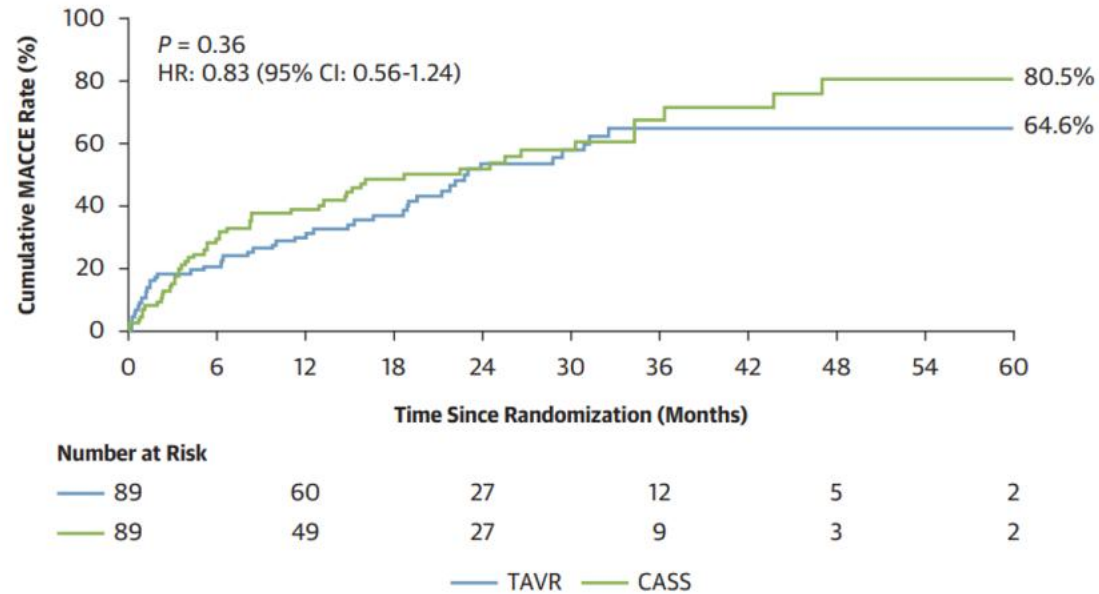


Prise en charge du RA modéré et IC



Results

Major-adverse cardiovascular and cerebral events



Prise en charge du RA modéré: deux études en cours de recrutement



© pixers

Local heart team, case review board & core lab assessments



Moderate aortic stenosis, cardiac damage/dysfunction,
anatomy appropriate for transfemoral access

1:1 Randomization
(up to 750 patients)

TAVR
(SAPIEN 3 platform)

VS.

Clinical surveillance
(until guideline-recommended criteria
for the timing of AS intervention is met)

Primary Endpoints:

Effectiveness: Non-hierarchical composite of death, and heart failure (HF) hospitalization or event at 2 years
Safety: Non-hierarchical composite of death, stroke, life-threatening bleeding and other events at 30 days

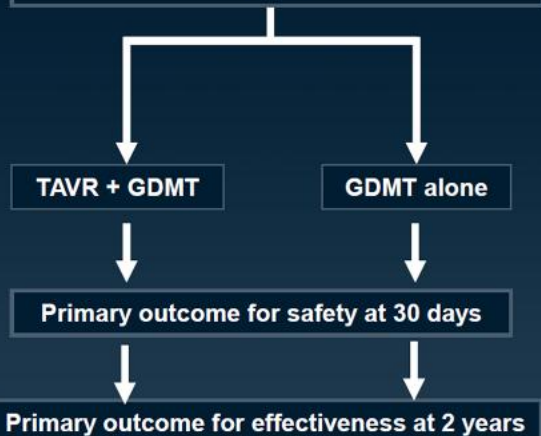
Follow-up: 30 days then annually through 10 years

EXPAND II Pivotal

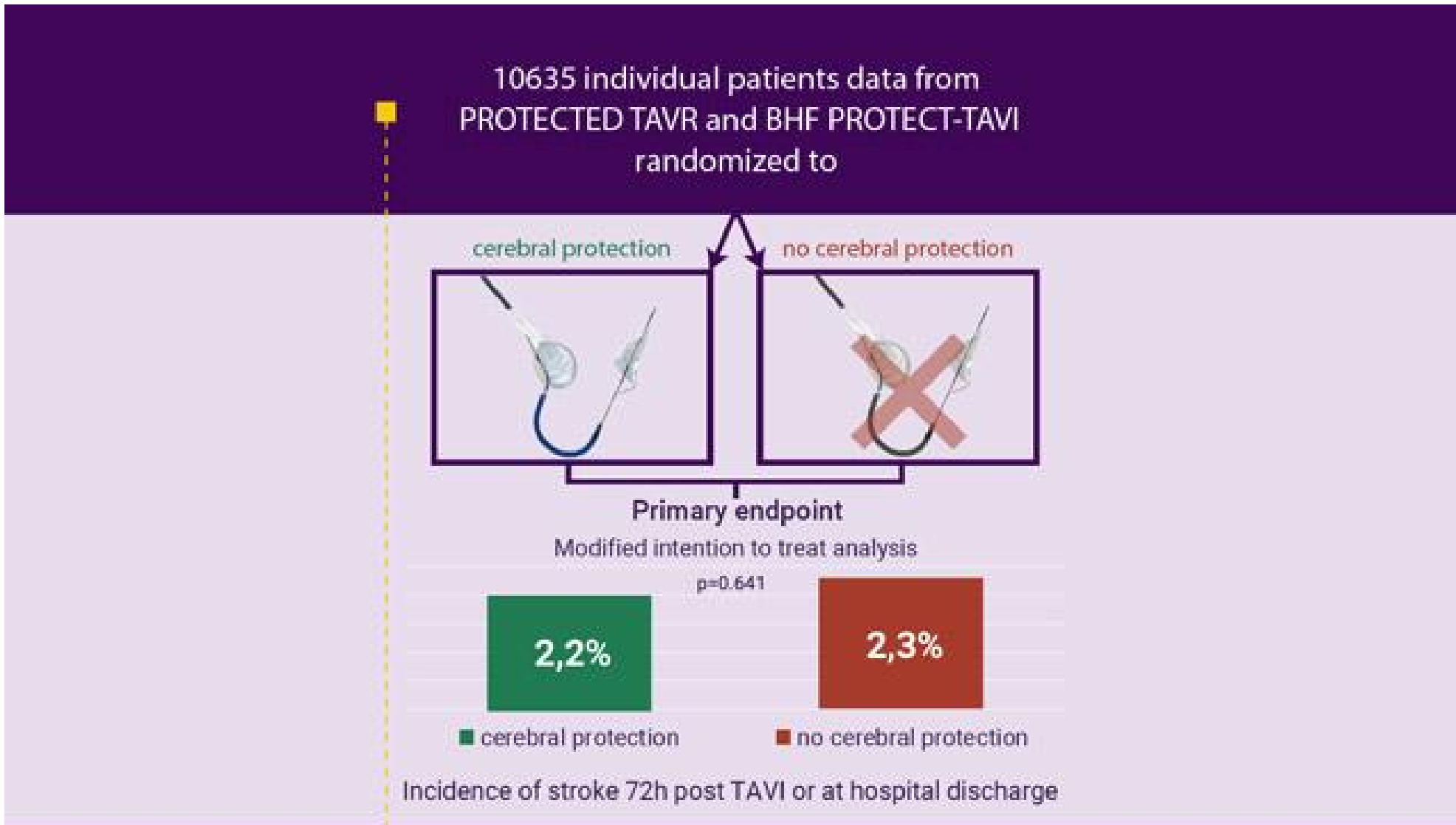
Design

- **DESIGN:** Prospective, randomized, parallel-assignment, two-arm, multi-center clinical evaluation of the Medtronic Evolut Pro+ or FX System vs. GDMT alone
- **OBJECTIVE:** To determine safety and effectiveness of Medtronic TAVR in patients with moderate, symptomatic AS
- **PRINCIPAL INVESTIGATORS**
Josep Rodes-Cabau, Paul Sorajja, Stephan Windecker

650 patients with symptomatic, moderate AS in up to 100 clinical sites in Canada, Europe, Israel, Japan, New Zealand, and U.S.A.



Dispositif de protection embolique cérébral

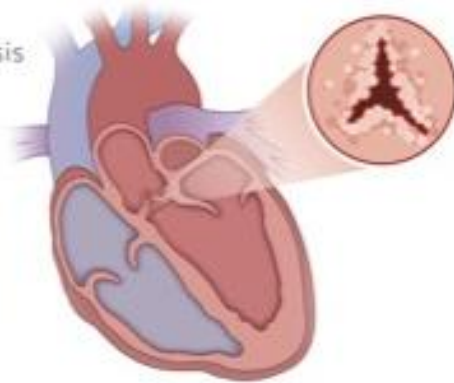


Dapagliflozine et TAVI

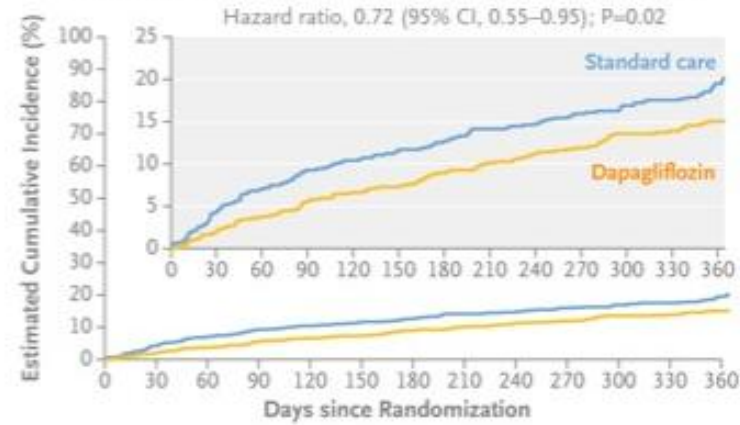


Patients

- 1222 adults in primary analysis
- Mean age: 82 years
- Men: 51%; Women 49%



Death from Any Cause or Worsening of Heart Failure



Dapagliflozin + Standard Care

Standard Care

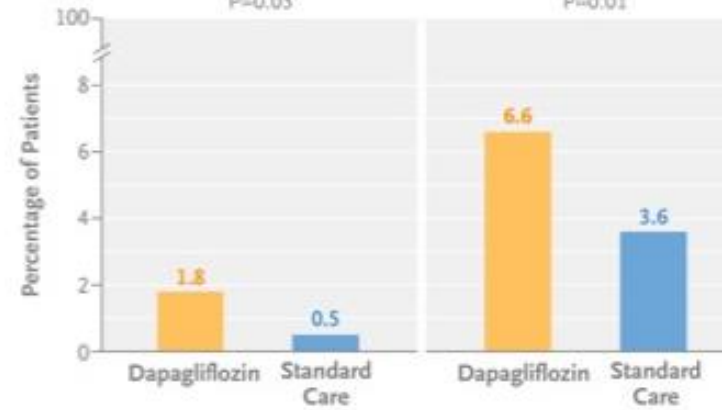


Genital infection

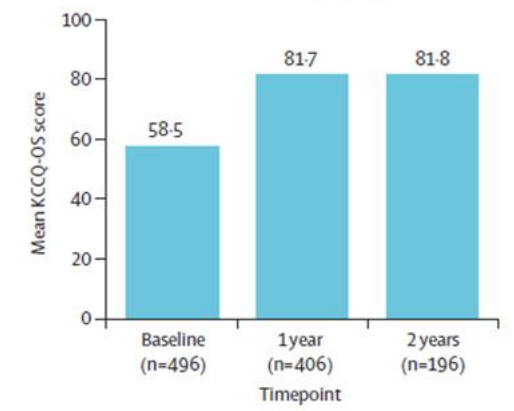
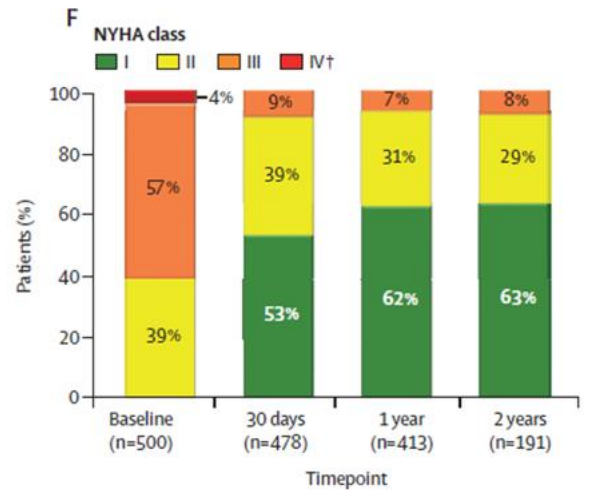
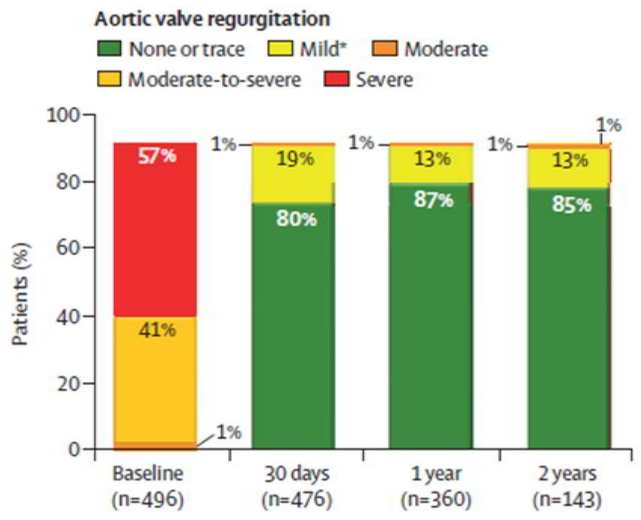
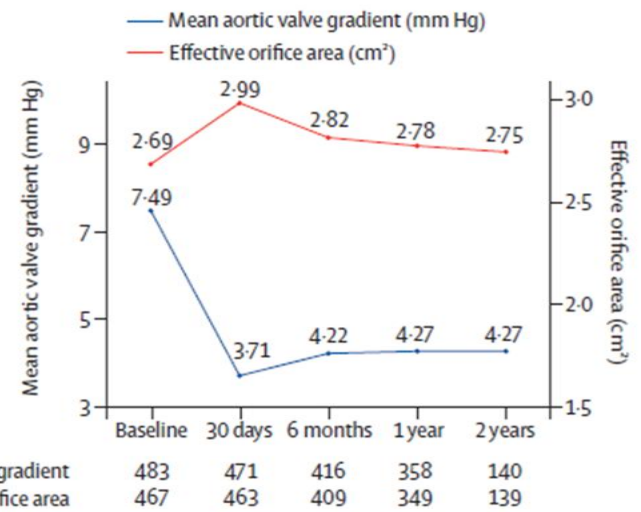
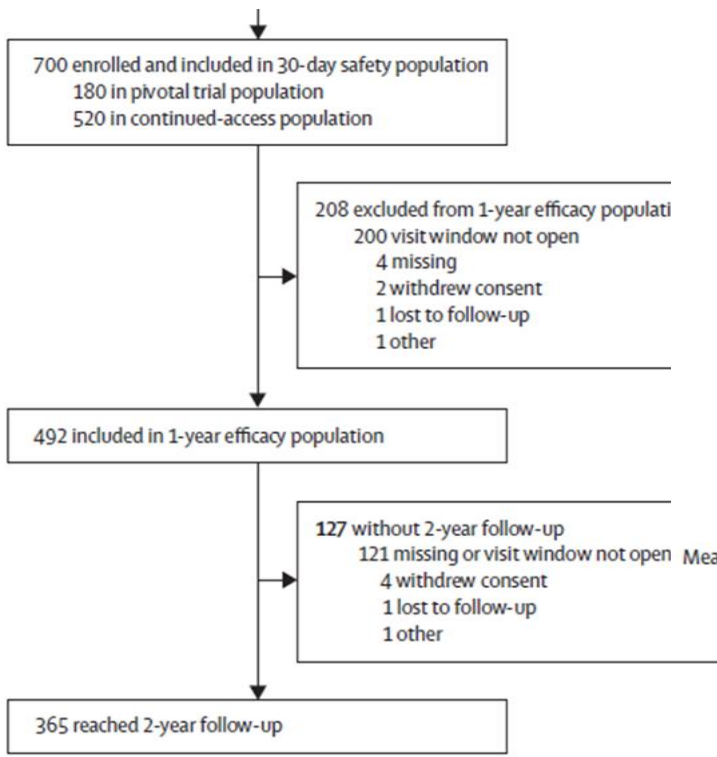
P=0.03

Hypotension

P=0.01



TAVI et insuffisance aortique



Résultats à J30

- Embolisation valvulaire : 1,3%
- AVC : 1,7%
- Mortalité : 1,6%
- Pacemaker : 21,6%

TAVI may be considered for the treatment of severe AR in symptomatic patients ineligible for surgery according to the Heart Team, if the anatomy is suitable. [264,265,268,269](#)

IIb **B**

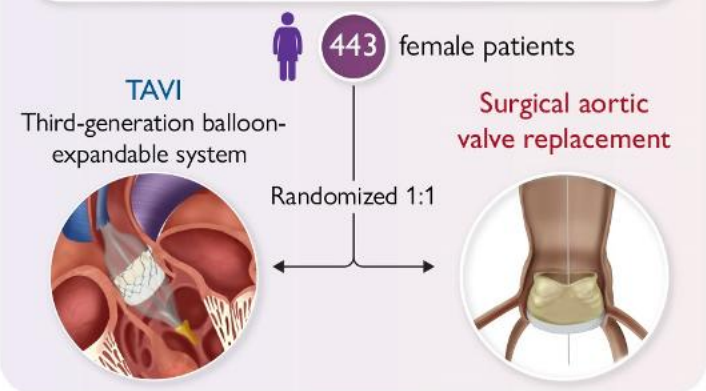
TAVI vs Chirurgie chez les femmes



Aim

The RHEIA trial compared outcomes with TAVI vs surgery for valve replacement in women all-comers with severe aortic stenosis

Study population

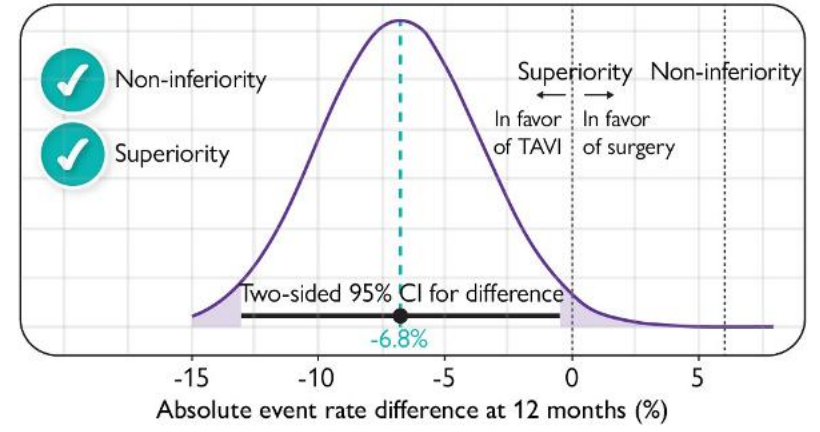
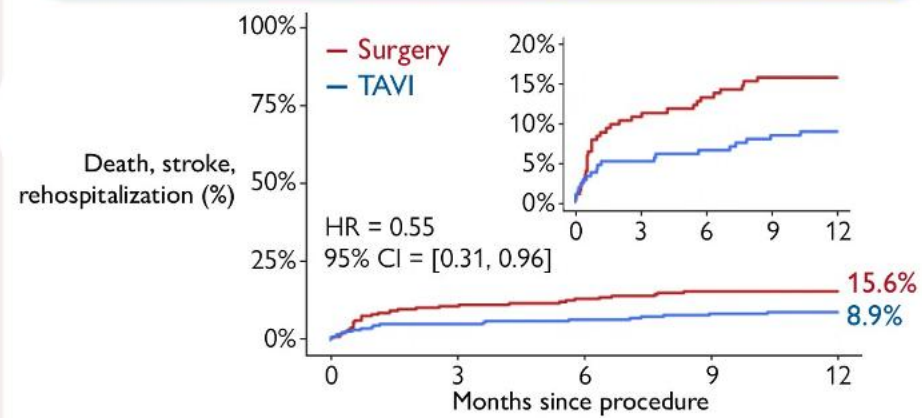


Study sites

48 centres

12 countries in Europe

Primary composite endpoint: death, stroke, rehospitalization



Merci pour votre attention





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Redo TAVI: les aspects techniques

Didier TCHETCHE

