



68° CONGRESSO NAZIONALE SIGG

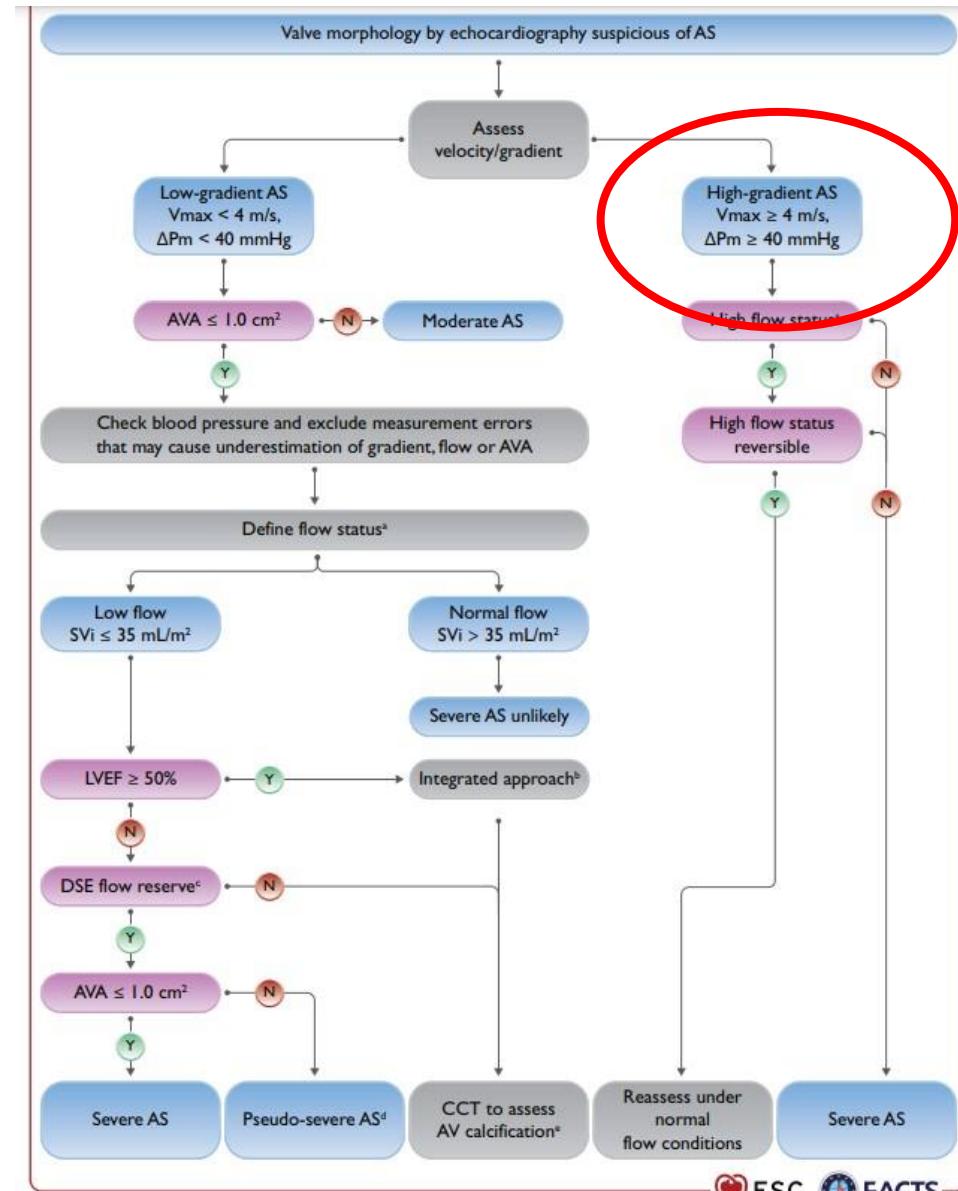
Ritorno al futuro
FIRENZE, 13-16 DICEMBRE 2023
PALAZZO DEI CONGRESSI



SIMPOSIO YES SVALVOLARE IN GERIATRIA: UNA QUESTIONE aTAVIca

A qualcuno piace fragile - TAVI o non TAVI?

Luigi Spadafora, MD
Cardiology Fellow, Sapienza University of Rome-Latina



Nel caso del nostro
paziente, stenosi aortica
severa High-Gradient

2021 ESC/EACTS Guidelines for
the management of valvular heart
disease. *European Heart Journal*,
Volume 43, Issue 7, 14 February
2022



| A) Symptomatic aortic stenosis | Class ^b | Level ^c |
|--|--------------------|--------------------|
| Intervention is recommended in symptomatic patients with severe, high-gradient aortic stenosis [mean gradient ≥ 40 mmHg, peak velocity ≥ 4.0 m/s, and valve area ≤ 1.0 cm 2 (or ≤ 0.6 cm 2 /m 2)]. ^{235,236} | I | B |
| Intervention is recommended in symptomatic patients with severe low-flow (SVi < 25 mL/m 2 /s), low-gradient (< 40 mmHg) aortic stenosis with reduced ejection fraction ($< 50\%$), and evidence of flow (contractile) reserve. ^{32,237} | I | B |
| Intervention should be considered in symptomatic patients with low-flow, low-gradient (< 40 mmHg) aortic stenosis with normal ejection fraction after careful confirmation that the aortic stenosis is severe ^d (Figure 3). | IIa | C |
| Intervention should be considered in symptomatic patients with low-flow, low-gradient severe aortic stenosis and reduced ejection fraction without flow (contractile) reserve, particularly when CCT calcium scoring confirms severe aortic stenosis. | IIa | C |

Nel nostro caso:

Stenosi aortica High gradient +
Sintomi + AVA <1 cm 2 ->

Indicazione a trattamento invasivo
in classe I B

2021 ESC/EACTS Guidelines for the management of valvular heart disease:
Developed by the Task Force for the management of valvular heart disease of the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS), *European Heart Journal*, Volume 43, Issue 7, 14 February 2022



Mentimeter

Come procedere?

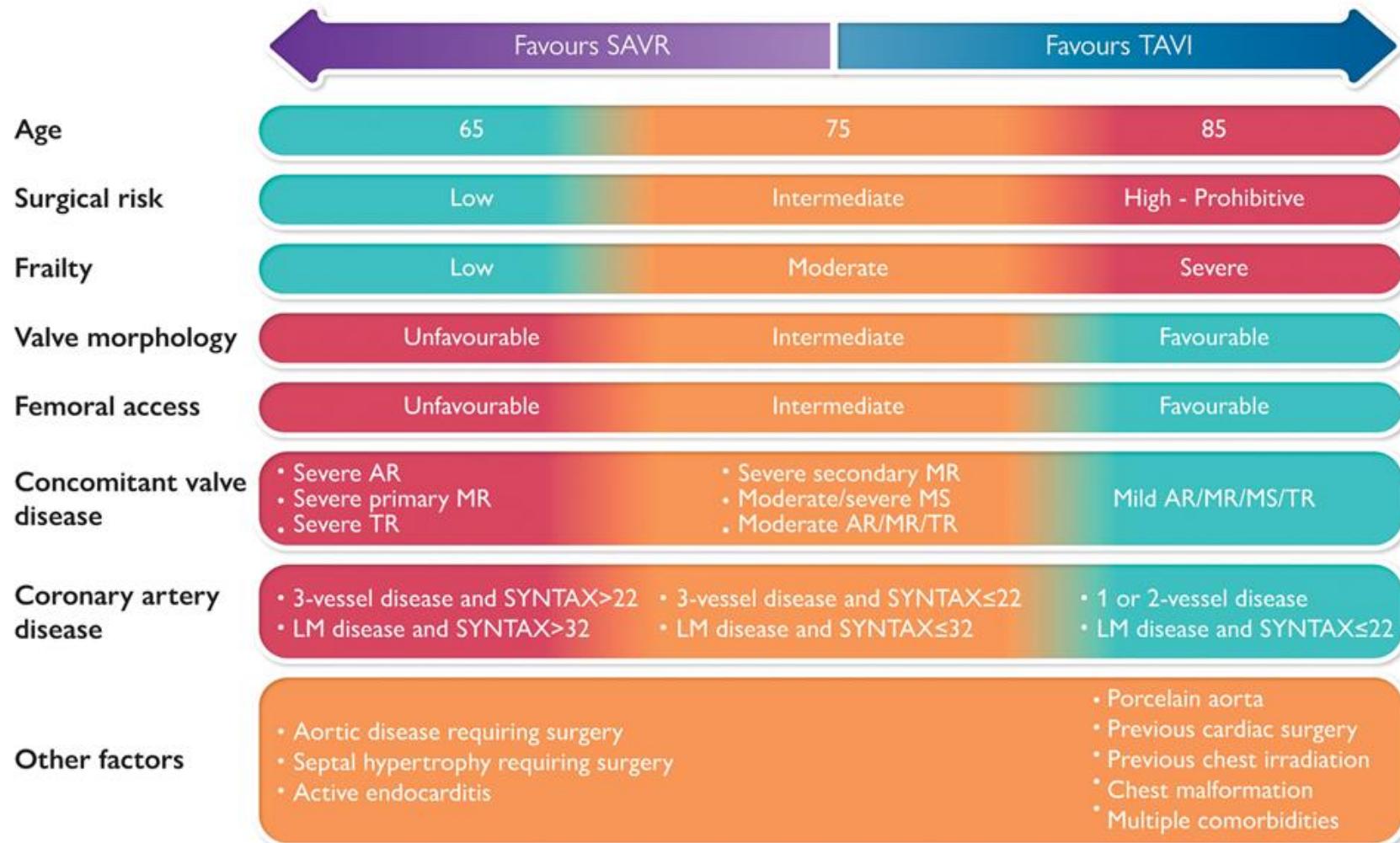
None of the options are correct!

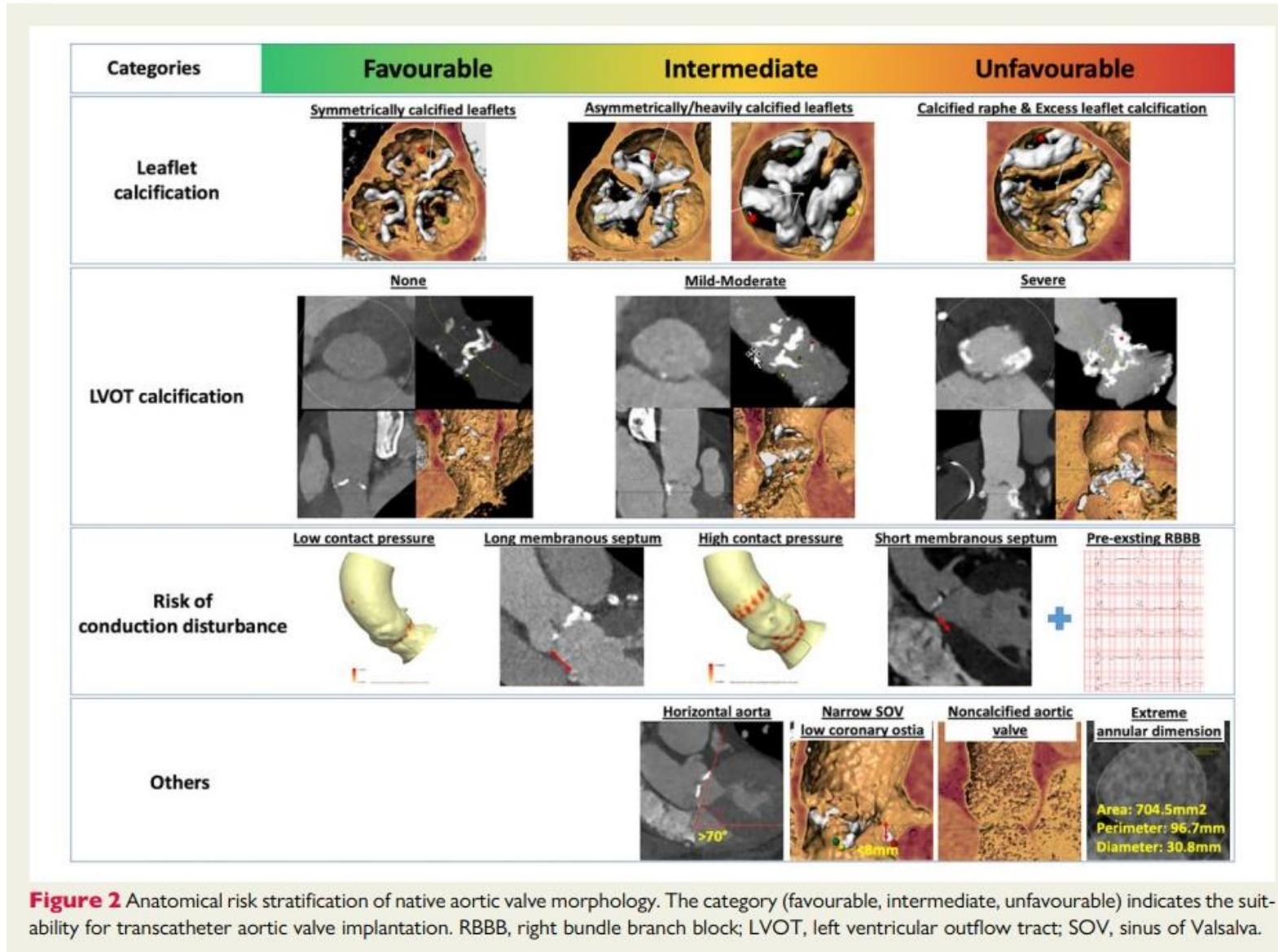




TERAPIA MEDICA DELLA STENOSI AORTICA

- Per la Stenosi aortica non esistono terapie disease-modifying
- La terapia medica è sovrapponibile a quella dell'insufficienza cardiaca
- Particolare attenzione va prestata ai vasodilatatori periferici e alla terapia antiipertensiva (titolazione graduale)
- Particolare attenzione va prestata allo stato volemico





Which patients with aortic stenosis should be referred to surgery rather than transcatheter aortic valve implantation?, European Heart Journal, Volume 43, Issue 29, 1 August 2022



ASSESSMENT-PRE TAVI

TC cuore, aorta e vasi periferici:

- Anatomia dell'asse iliaco-femorale favorevole per TAVI
- Buona distanza tra osti coronarici e anulus valvolare
- Dimensioni dell'anulus compatibili con TAVI

Rischio operatorio:

- STS PROM 3%

Presenza di fragilità

Età > 75 aa

Coronarografia:

- Non evidenza angiografica stenosi coronariche

INVIO DEL PAZIENTE A TAVI

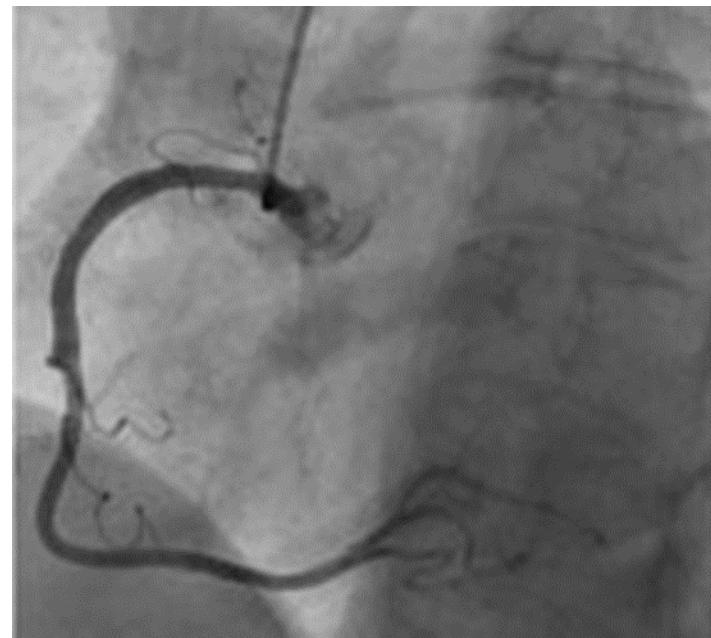


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CVG PRE-TAVI





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Impianto con successo di valvola Edwards Sapien 3 29 mm

Nessuna complicanza intra-procedurale



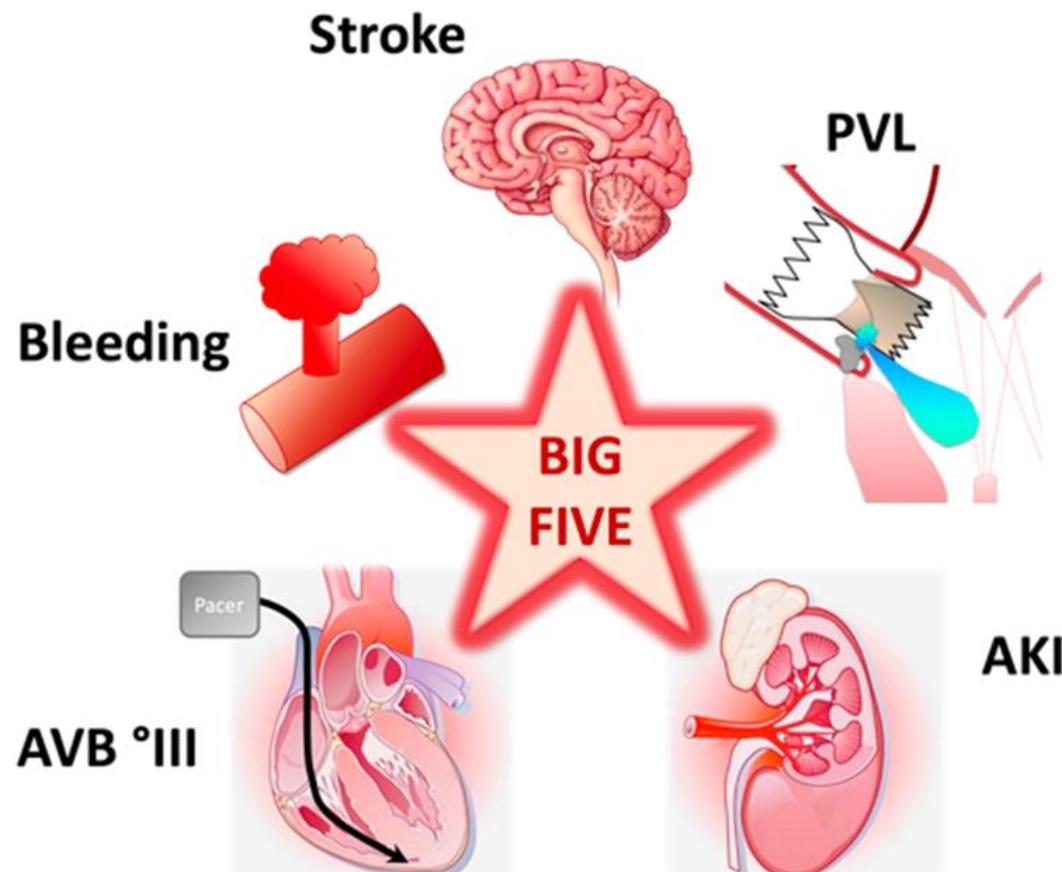
MONITORAGGIO POST-OPERATORIO

Durante la degenza in UTIC e successivamente in reparto:

- Valori di emoglobina stabili, accesso femorale in ordine
- Non segni di deficit neurologici focali
- Non alterazioni della conduzione intra-ventricolare, persistenza del ritmo da FA normofrequente
- Valori di creatinina stabili nel decorso post-operatorio



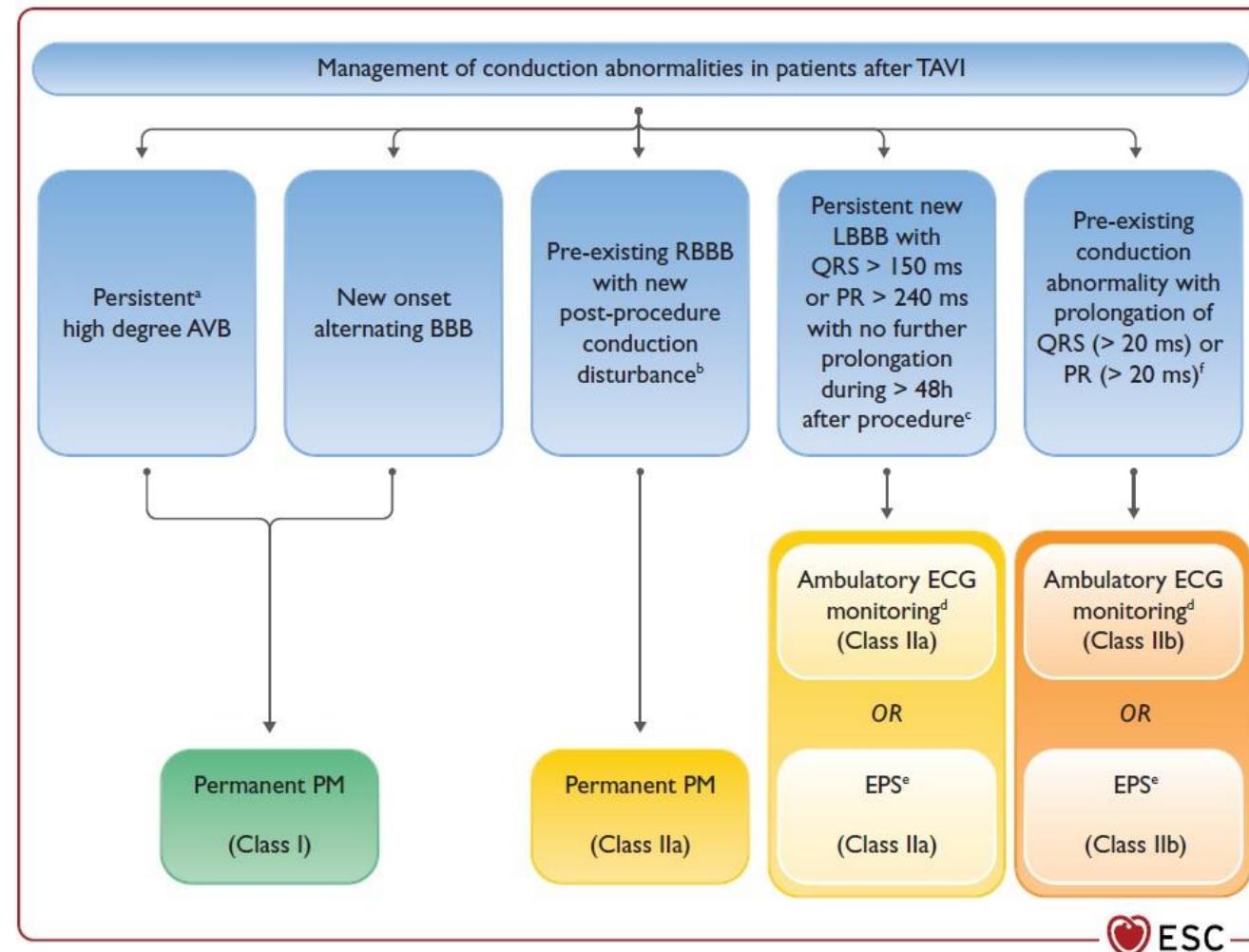
TAVI: PRINCIPALI COMPLICANZE



Grube, E, Sinning, J. The "Big Five" Complications After Transcatheter Aortic Valve Replacement: Do We Still Have to Be Afraid of Them?*. *J Am Coll Cardiol Intv.* 2019 Feb, 12 (4) 370–372.



TAVI: PRINCIPALI COMPLICANZE





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TAVI: PRINCIPALI COMPLICANZE

JACC: CARDIOVASCULAR INTERVENTIONS
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VOL. 12, NO. 4, 2019

STRUCTURAL

Impact of Short-Term Complications on Mortality and Quality of Life After Transcatheter Aortic Valve Replacement



Suzanne V. Arnold, MD, MHA,^a Yiran Zhang, MS,^b Suzanne J. Baron, MD, MSc,^a Thomas C. McAndrew, PhD,^b Maria C. Alu, MS,^b Susheel K. Kodali, MD,^b Samir Kapadia, MD,^c Vinod H. Thourani, MD,^d D. Craig Miller, MD,^e Michael J. Mack, MD,^f Martin B. Leon, MD,^b David J. Cohen, MD, MSc^a



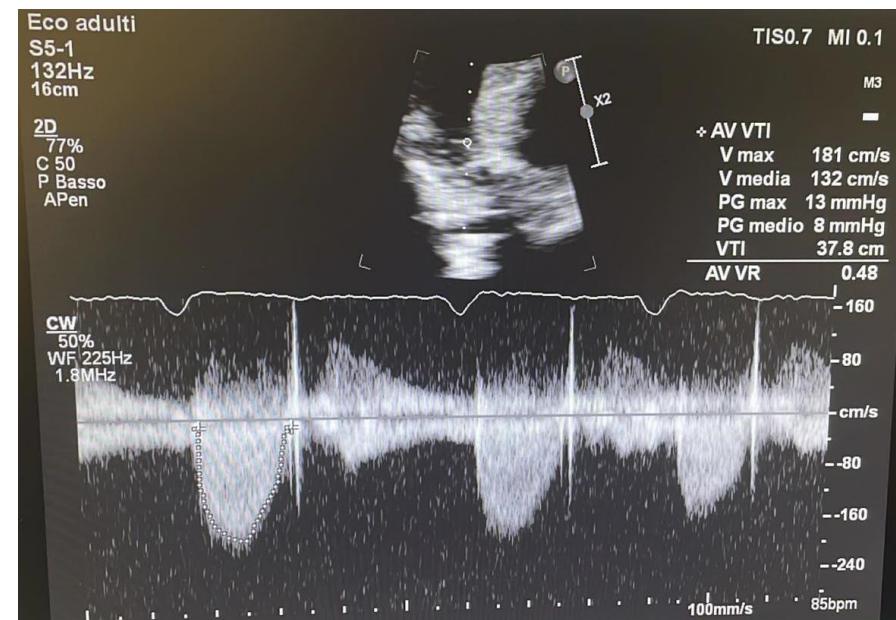
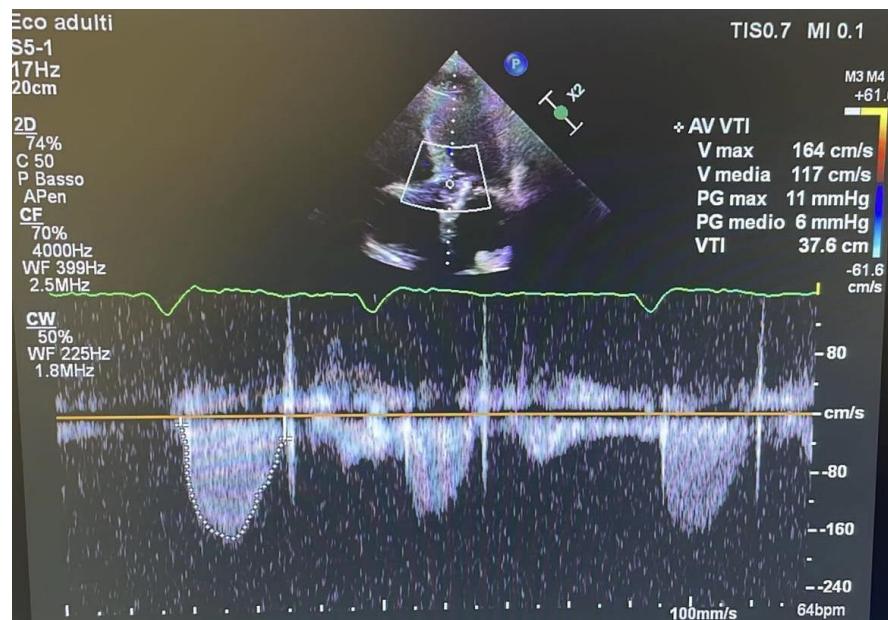
RIVALUTAZIONE ECOCARDIOGRAFICA POST-OPERATORIA

Gpmed 6-8 mmHg

V max 1.6-1.8 m/s

VTI 37.6 cm

**NETTO MIGLIORAMENTO
DEL QUADRO
EMODINAMICO**





TERAPIA ANTITROMBOTICA

Transcatheter aortic valve implantation

OAC is recommended lifelong for TAVI patients who have other indications for OAC.^{501 f}

Lifelong SAPT is recommended after TAVI in patients with no baseline indication for OAC.^{495,496,521}

Routine use OAC is not recommended after TAVI in patients with no baseline indication for OAC.⁴⁹⁷

| | |
|-----|---|
| I | B |
| I | A |
| III | B |



68° CONGRESSO C.I.C.C.

< Back

CHA₂DS₂-VASc Score

CALCULATOR

NEXT STEPS

EVIDENCE

CREATOR

CHF history

No 0 Yes +1

Hypertension history

No 0 Yes +1

Stroke/TIA/
thromboembolism
history

No 0 Yes +2

Vascular disease history
(prior MI, peripheral
artery disease)

No 0 Yes +1

RESULT

4 points

Stroke risk was 4.8% per year in >90,000 patients (the Swedish Atrial Fibrillation Cohort Study) and 6.7% risk of stroke/TIA/systemic embolism.

One recommendation suggests a 0 score for men or 1 score for women (no clinical risk factors) is "low" risk and may not require anticoagulation; a 1 score for men or 2 score for women is "low-moderate" risk and should consider antiplatelet or anticoagulation; and a score ≥2 for men or ≥3 for women is "moderate-high" risk and should otherwise be an anticoagulation candidate.

< Back HAS-BLED Score ★

CALCULATOR NEXT STEPS EVIDENCE CREATOR

>3x normal

Stroke history

No 0 Yes +1

Prior major bleeding or
predisposition to bleeding

No 0 Yes +1

Labile INR

Unstable/high INRs, time in
therapeutic range <60%

No 0 Yes +1

Age >65

No 0 Yes +1

Medication usage
predisposing to bleeding
Aspirin, clopidogrel, NSAIDs

No 0 Yes +1

Alcohol use
≥8 drinks/week

No 0 Yes +1

RESULT

1 points Relatively low risk of major bleeding.

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Si optava per terapia anticoagulante
con Edoxaban 30 mg/die per:

- Monosomministrazione (a differenza di
Apixaban e Dabigatran)

- Non necessità di assunzione concomitante
con cibo (a differenza di Rivaroxaban)->
paziente inappetente

- eGFR secondo CDK-EPI < 50 ml/min



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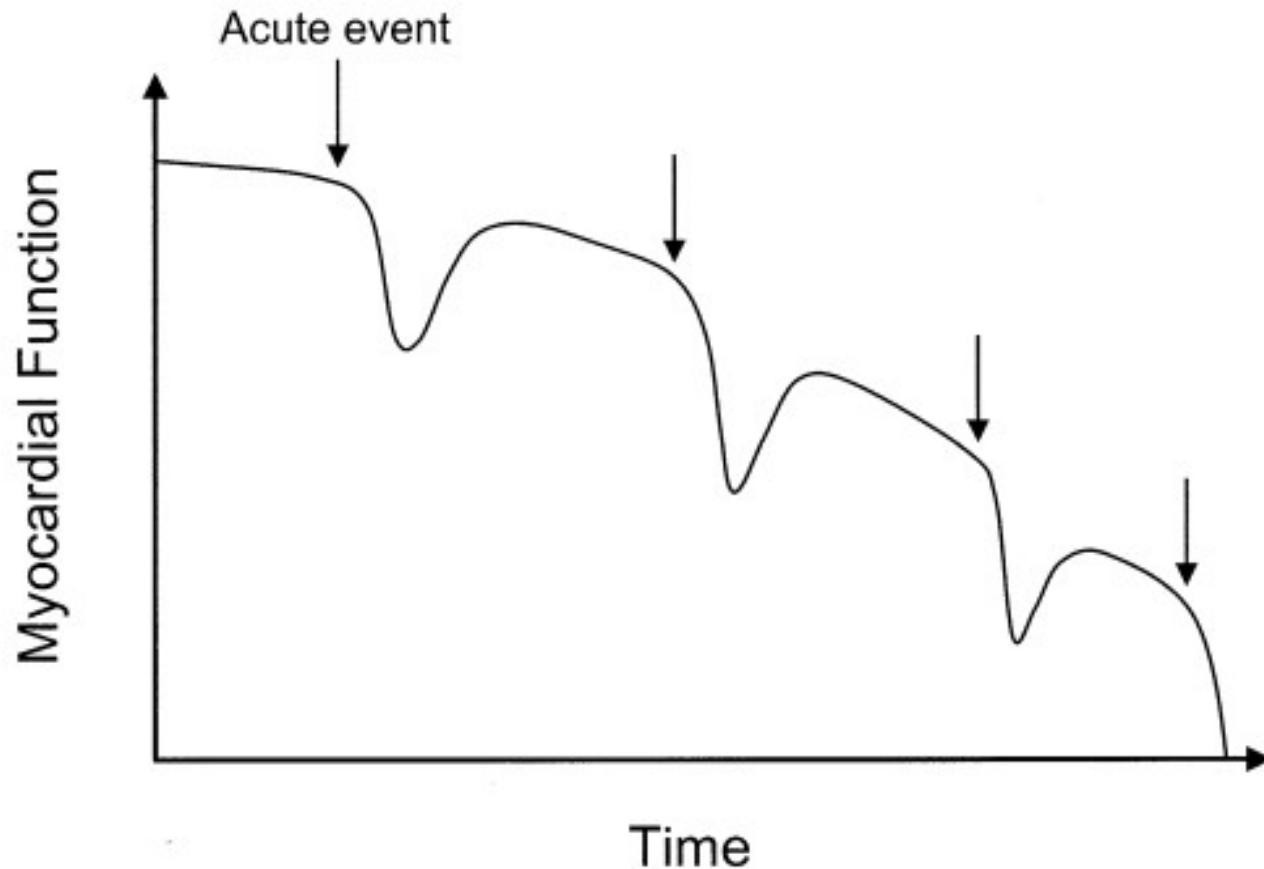
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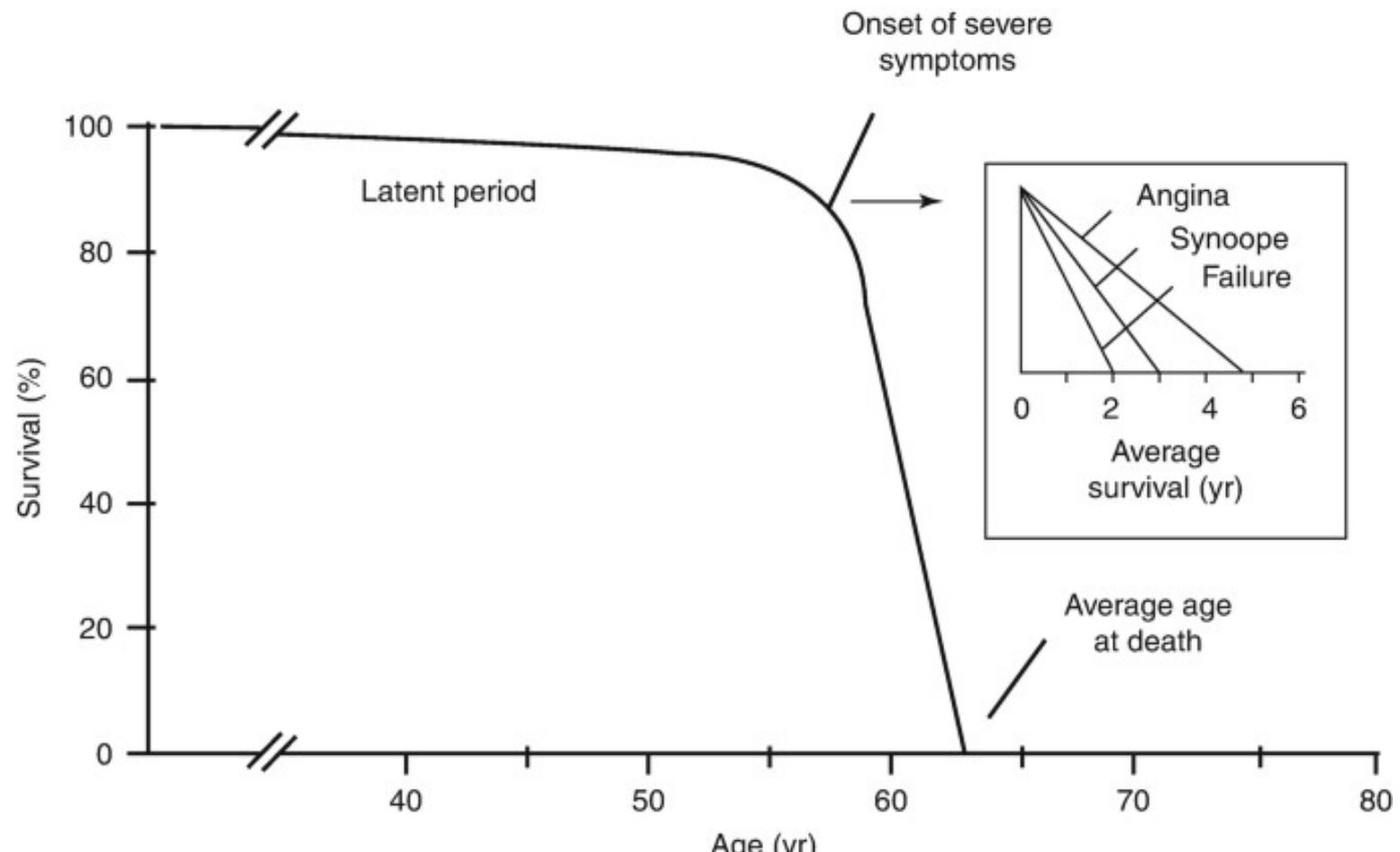


OTTIMIZZAZIONE DELLA TERAPIA MEDICA

- Bisoprololo 2.5 mg/die
- Empagliflozin 10 mg/die



Gheorghiade M et al. Pathophysiologic targets in the early phase of acute heart failure syndromes. Am J Cardiol. 2005



Ross JJR, Braunwald. 1968.



TAVI VS TERAPIA MEDICA: IMPATTO ECONOMICO

Valvular heart disease

openheart Severe symptomatic aortic stenosis: medical therapy and transcatheter aortic valve implantation (TAVI) – a real-world retrospective cohort analysis of outcomes and cost-effectiveness using national data

Phillip M Freeman,^{1,2} Majd B Proty,¹ Omar Aldalati,³, Richard A Anderson,⁵ Dave Smith^{3,4}

Main outcome measures: Survival, hospital admission frequency and length of stay, primary care visits, and cost-effectiveness.

Results: TAVI patients were significantly older (81.8 vs 79.2), more likely to be male (59.1% vs 49.3%), baseline comorbidities were balanced. Mortality in TAVI versus STD was 28% vs 70% at 1000 days follow-up. There were significantly more hospital admissions per year in the TAVI group prior to TAVI/STD (1.5 (IQR 1.0–2.4) vs 1.0 IQR (0.5–1.5)). Post TAVI/STD, the TAVI group had significantly lower hospital admissions (0.3 (IQR 0.0–1.0) vs 1.2 (IQR 0.7–3.0)) and lengths of stay (0.4 (IQR 0.0–13.8) vs 11.0 (IQR 2.5–28.5), $p<0.05$). The incremental cost-effectiveness ratio (ICER) for TAVI was £10 533 per quality-adjusted life year (QALY).

While this is a relatively small study, it represents an important step in real-world long-term outcomes of either medical therapy or TAVI in a high-risk population with severe symptomatic aortic stenosis. It also supports clinical trial findings of improved outcomes in patients managed with TAVI and for the first time reveals that TAVI is a cost-effective procedure in real-world practice.

Conclusions: TAVI patients were more likely to survive and avoid hospital admissions compared with the medically managed STD group. The ICER for TAVI was £10 533 per QALY, making it a cost-effective procedure.



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i

2019

Mick Jagger

Mick Jagger says he is on the mend following heart valve procedure

Rolling Stones frontman underwent procedure in New York earlier this week, according to report in Billboard magazine

Reuters

Fri 5 Apr 2019 18.54 CEST



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F Forbes

Mick Jagger 'On The Mend' After Reportedly Getting A New Aortic Valve

The lead singer for the Rolling Stones reportedly just underwent a successful transcatheter aortic valve replacement (TAVR).

5 apr 2019





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The Rolling Stones are hitting the road next year on a tour sponsored by AARP

By Dan Heching, CNN

⌚ 1 minute read · Updated 3:29 PM EST · Wed November 22, 2023

