

EUROVALVE
DEBATING
CHAMBER



**CAMBRIDGE
UNION
SOCIETY**
OCTOBER
7&8, 2022

Procedure is the treatment choice in young adults with bicuspid aortic valve

Serban Stoica (Bristol)

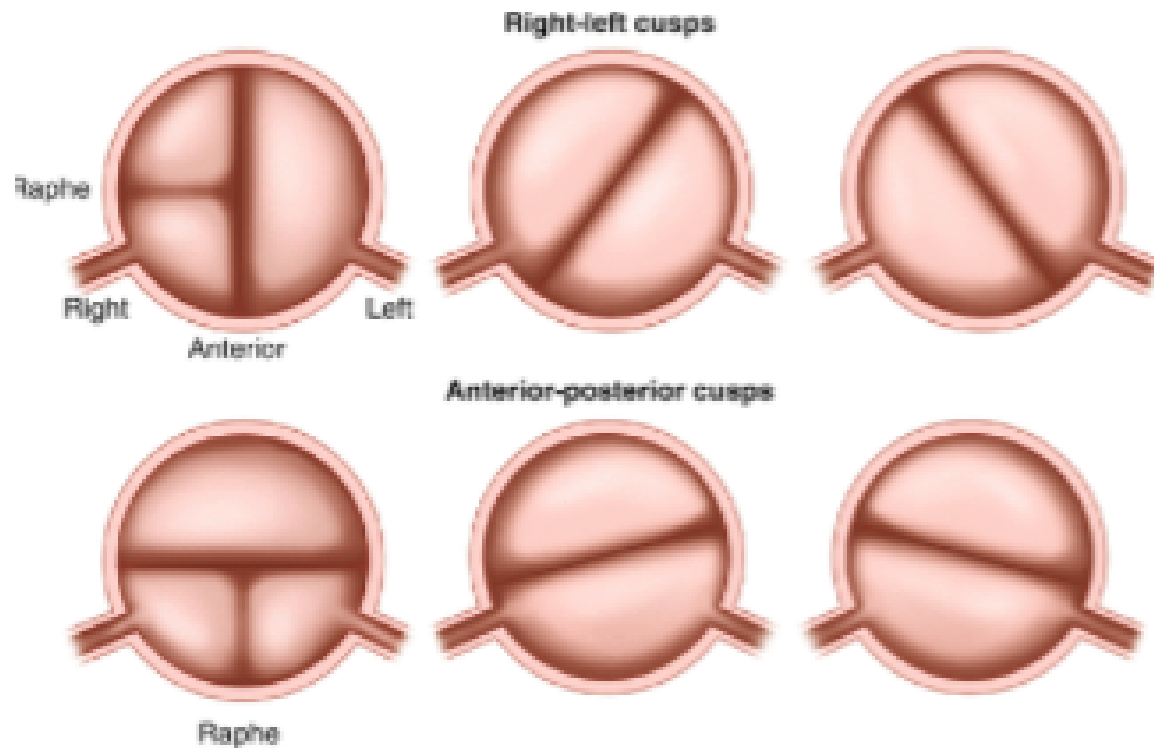
Agnes Pasquet (Louvain)

Marjan Jahangiri (London)

EASY

Context

Bicuspid valve

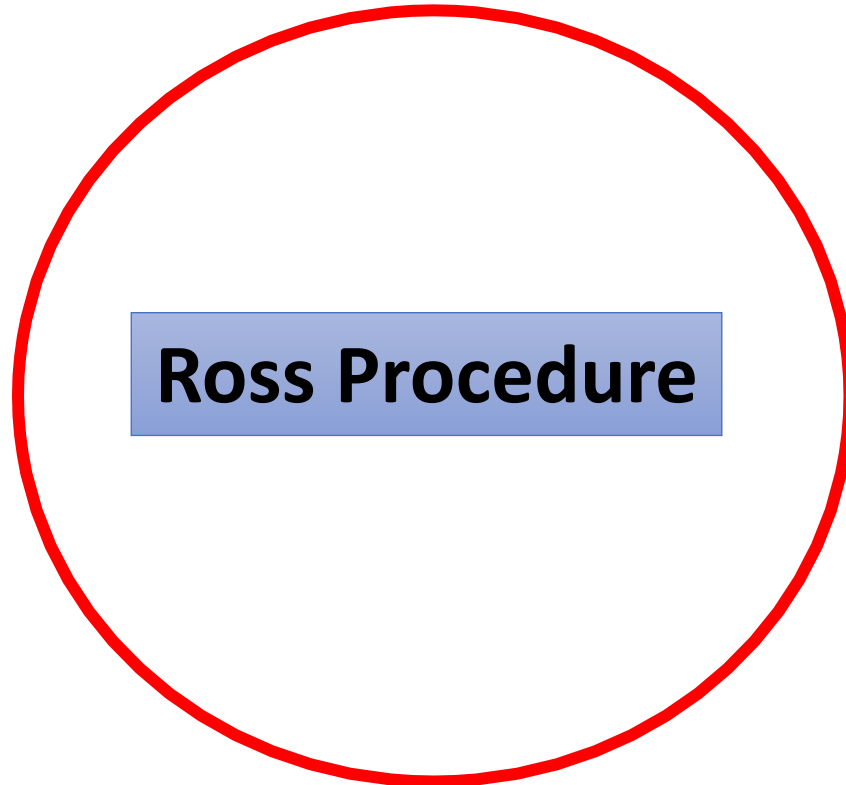


Young



A LIVING VALVE

Aortic stenosis / mixed disease



Ross Procedure

Aortic insuff./ root aneurysm



**Repair
or
Valve-sparing**

If you only read 1 paper...

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THE PRESENT AND FUTURE

JACC STATE-OF-THE-ART REVIEW

Ross Procedure in Adults for Cardiologists and Cardiac Surgeons

JACC State-of-the-Art Review

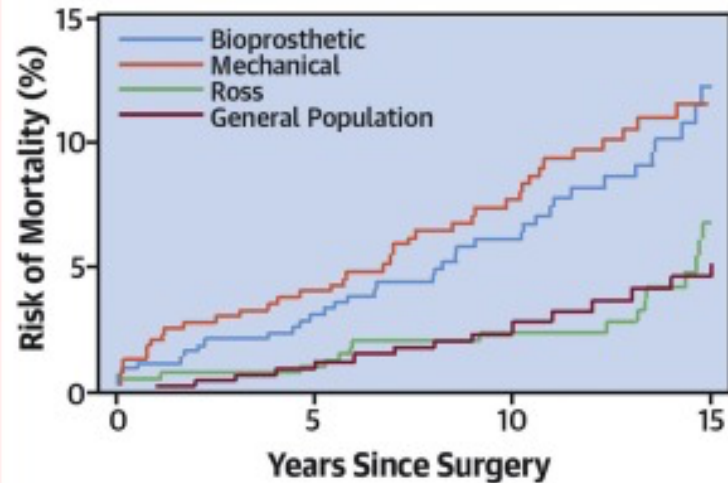
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Ross vs Biological vs Mechanical AVR

- New York and California Statewide Data (1997-2014)
- Adults needing elective isolated AVR (18-50 years old)
- Exclusions: Concomitant procedures, reoperations, IV drug use, dialysis, endocarditis, history of cancer, connective tissue disorders
- 1:1:1 propensity matching (Ross: Biological: Mechanical)
- N = 434 patients per cohort
- Median follow-up: 12.5 years

1 Ross Procedure = Better Survival *(equivalent to the general population)*



2 Ross Procedure = Lower Valve-Related Complications

- ↓ Endocarditis } vs Biological AVR
- ↓ Reoperation } vs Biological AVR
- ↓ Stroke } vs Mechanical AVR
- ↓ Major Bleeding } vs Mechanical AVR

3 30-Day Mortality After Valve-Related Complications

Valve-Related Complications	30-Day Mortality
Stroke	5.6%
Endocarditis	13.5%
Major Bleeding	2.6%
Reoperation	1.1%

El-Hamamsy, I. et al. J Am Coll Cardiol. 2022;79(8):805-815.

The Achilles' heel

- **Durability, reintervention**
 - 1% per year of follow up
 - Mostly RV-PA conduit, transcatheter
- **Reproducibility, availability**
 - Hospital survival close to 100%

~~Why?~~ → Why not?

- Anatomical factors – LAD off RCA
- Frailty
- Reduced mobility / life expectancy
- Connective tissue disease – obvious or covert
- Poor cardiac function
- Significant concomitant procedures

Conclusion

- ✓ Literature ~~Guidelines~~
- ✓ Quantity **AND** Quality of life
- ✓ Cardiology **AND** Patients
- ✓ Friends **AND** Family

BMJ

BMJ 2011;342:d2466 doi: 10.1136/bmj.d2466

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ANALYSIS

Is there a risk in avoiding risk for younger patients with aortic valve disease?

Tom Treasure, Asif Hasan, and Magdi Yacoub argue that a culture of risk avoidance in cardiac surgery may mean patients are not getting the most appropriate treatment

Tom Treasure *professor of cardiothoracic surgery*¹, Asif Hasan *consultant cardiac surgeon*², Magdi Yacoub *professor of cardiac surgery*³

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Thank you