

Concomitant Aortic Valve Replacement and Atrial Fibrillation Surgery:

Combining Right Mini-Thoracotomy and Thoracoscopy — A Novel Approach

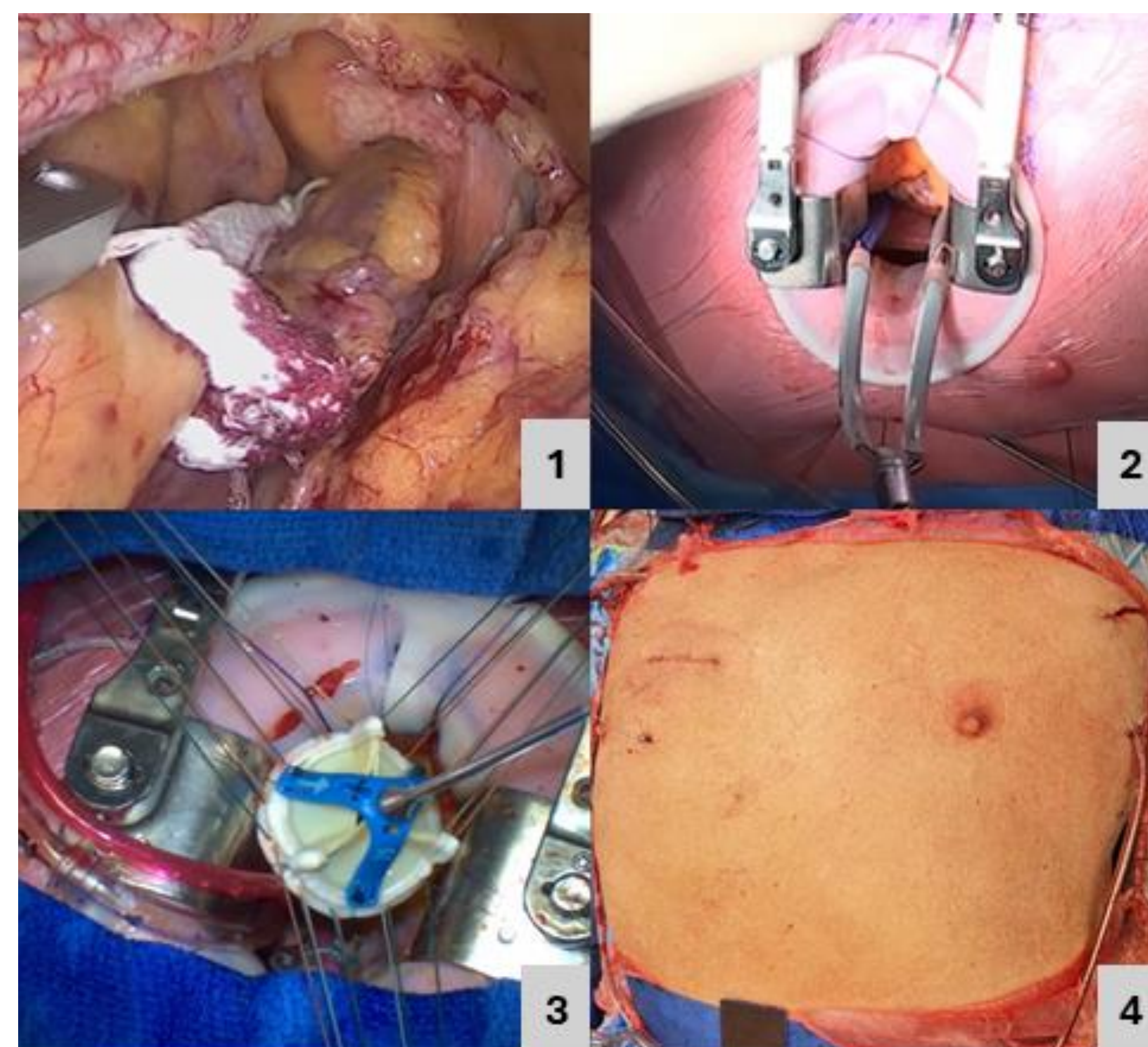
Michiel Algoet, Gilles Soenens, Jules François, Jelle Fleerackers, Philippe Ballaux, Koen Cathenis

AIM

- Establish and optimize the procedural workflow of a novel combined minimally invasive approach for simultaneous AVR and AF surgery

PROCEDURE

- **Femoral cannulation** (percutaneous A + V)
- **Left-sided thoracoscopy**
 - Blunt dissection of transverse sinus transversus and oblique sinus
 - Application of LAA clip
 - Introduction of guiding catheters
- **Right-anterior mini-thoracotomy**
 - Retrieval of guiding catheters
 - Radiofrequency ablation: Medtronic® Cardioblate Gemini S (box lesion set)
 - Aortic valve replacement



Intraoperative views: left thoracoscopy (1) and right mini-thoracotomy (2,3). Postoperative view (4)

CONCLUSION

- ✓ Feasible and safe combined minimally invasive technique
- ✓ Effective minimally invasive approach for patients with combined AS and AF
- ✓ Larger series and longer follow-up are warranted to confirm these results

RESULTS

6

Successful cases

63

X-clamp time (min)

168

ECC time (min)

0%

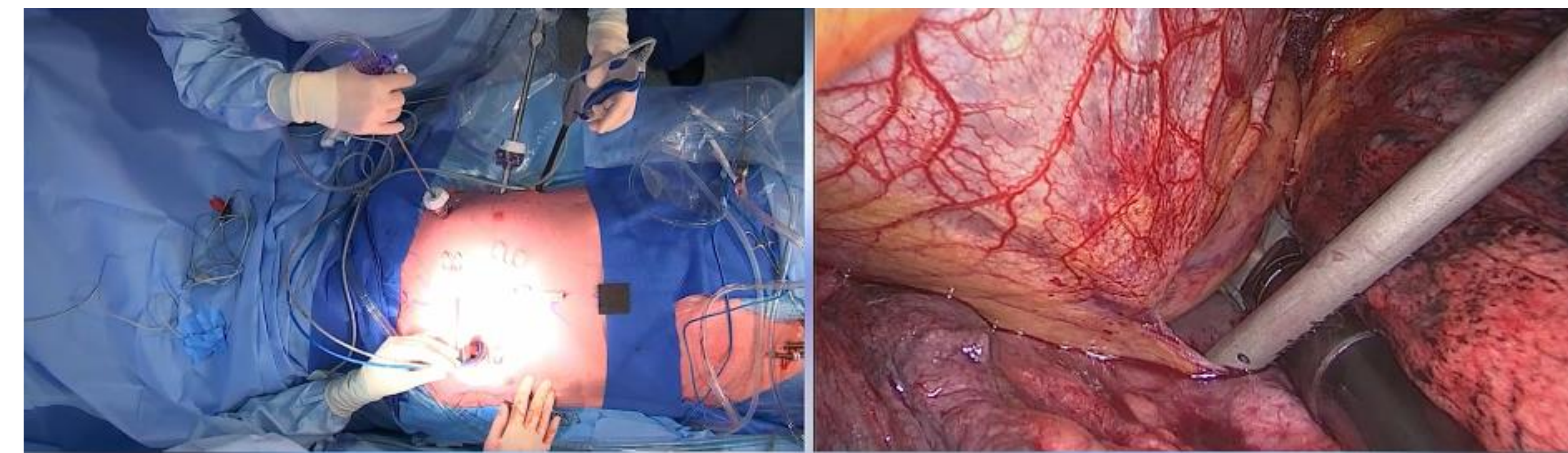
MACCE/PPM/Conversions

100%

SR at 1 month

5

Mean LOS (days)



Corresponding author:

Jelle Fleerackers • Hartcentrum Gent,
AZ Maria Middelares, Ghent, Belgium
Jelle.fleerackers@azmmsj.be

