

techno  
practicum  
college



# 2024 TPC

Joint Cardiology & Cardiac  
Surgery Conference

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**Program Director**  
Homayoun Jalali MD

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Thursday 07 - Sunday 10



March 2024

Intercontinental Sydney Harbour  
NSW

MEETING HANDBOOK

# General Information

## Meeting App

Download the meeting App and stay connected!  
Scan the appropriate QR Code below for your device



**Android**



**iPhone(iOS)**

**Event Code: 24TPC**

Log in using your email address as your user name and the App Pin  
emailed to you.

## Wi-Fi

**Network: IHG One Rewards**

**Access Code/Password: SYDHA**



# Sponsors

The Techno Practicum College gratefully acknowledges the generous sponsorship and support of the industry.

## PLATINUM PARTNER



Edwards

## GOLD PARTNER



## SILVER PARTNERS

AtriCure

## INTERNATIONAL GUEST SUPPORT

AtriCure



## Sponsor Profiles



Corcym is a global medical device company focused on the structural heart area with the vision to become the leading company dedicated to Heart Surgeons and their Patients.

Corcym provides the optimal mix with PERCEVAL™ PLUS, based on a sutureless and collapsible design that simplifies the surgical implantation, reducing the impact of surgery and facilitating faster recovery.<sup>1,2</sup> Combined with the innovative FREE Tissue Treatment in Perceval Plus addresses both major causes of valve calcification, phospholipids and aldehydes. The technology also allows the valve to be stored in an aldehyde-free solution, resulting in negligible toxicity for the patient and a faster procedure for the surgeon as no rinsing is required.<sup>3</sup> FREE is designed to improve durability.<sup>3</sup>

1. Santarpino et al., Sutureless aortic valve replacement: first-year single-center experience. *Ann Thorac Surg.* 2012 Aug;94(2):504-8
2. M. Glauber et al., International Expert Consensus on Sutureless and Rapid Deployment Valves in Aortic Valve Replacement Using Minimally Invasive Approaches Innovations (Phila). 2016 May-Jun;11(3):165-73
3. Meuris B. et al., A novel tissue treatment to reduce mineralization of bovine pericardial heart valves *J Thorac Cardiovasc Surg.* 2018 Jul;156(1):197-206



## Edwards

Edwards Lifesciences, based in Irvine, Calif., is the global leader of patient-focused medical innovations for structural heart disease and critical care monitoring. We are driven by a passion for patients, dedicated to improving and enhancing lives through partnerships with clinicians and stakeholders across the global healthcare landscape.





Terumo is a global leader in medical technology and has been committed to “Contributing to Society through Healthcare” for over 100 years. Located in Macquarie Park, Sydney, Terumo Australia provides medical device solutions in cardiovascular, peripheral vascular, cardiology and medical products. Our extensive vascular intervention and cardio-surgical portfolios offer a range of percutaneous and open surgical solutions. These include: cardiopulmonary products, intra-operative monitoring, vascular grafts such as the Thoraflex™ Hybrid, vascular access and closure devices, peripheral embolisation coils, drug-eluting stents, needles and syringes. At Terumo, we commit to bringing innovative advances in healthcare.

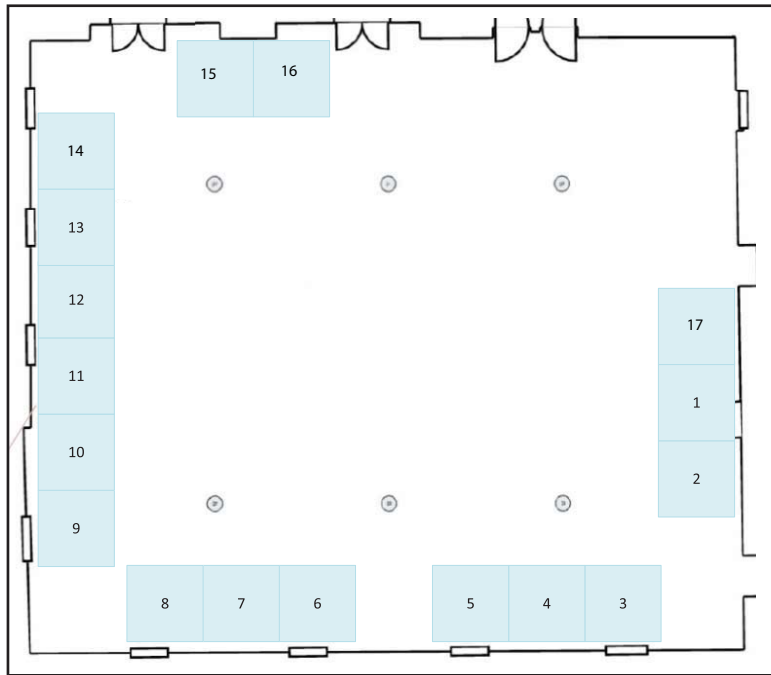
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# Exhibitor Floorplan

The Exhibition will be staged in the Acacia Ballroom.  
Refreshment breaks and lunches will be held in this area.



BOOTH	COMPANY	BOOTH	COMPANY
1	Depuy Synthes	11	Perios
2	Advanced Biomedical / BTC Health	12	Baxter
3 - 5	Edwards Lifesciences	13	Medtronic
6 - 8	Corcym	14	ZimmerBiomet
9	Device Technologies	15 - 16	Terumo
10	AtriCure	17	Johnson & Johnson



# Thursday 07 March

Case Based Round Table Discussion | 1600 - 1715  
Coronary Revascularisation, ACHD, Atrial Fibrillation  
Moderators: Russell Brereton and Adrian Pick

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Cases may also be presented by the Audience

Cases will include:

A Very Unusual Case of an RCA Aneurysm

**John Puskas - International Guest Presenter**

Focus on AF Ablation

**Patrick McCarthy - International Guest Presenter**

A Complex Multilayered ACHD Pathology: It Starts with Planning and Decision Making

**Homayoun Jalali**

Epicardial Open Chest Ventricular Tachycardia Ablation in no Entry Left Ventricle

**Mark LaMeir - International Guest Presenter**

Case Based Round Table Discussion | 1715 - 1830  
Valvular Interventions, Aortic Surgery, HOCM  
Moderators: Paul Bannon and Douglas Wall

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Cases may also be presented by the Audience

Cases will include:

A Challenging Mitral Valve Repair

**Patrick Perier - International Guest Presenter**

Aortic Dissection, Some Trickier than Others

**Manu Mathur**

Coronary Anomalies in Ross / VSARS

**Ben Janes**

My Lucky Day Doing TAVI

**Christophe Dubois - International Guest Presenter**

Transcatheter Valve in MAC

**Volkmar Falk - International Guest Presenter**



0755 Welcome and Introduction  
**Homayoun Jalali**

## Scientific Session 1

Moderators: Homayoun Jalali and Trevor Fayers

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- 0800 1.1 The Rationale for All-arterial, No-aortic-touch OPCAB  
**John Puskas - International Guest Presenter**
- 0820 1.2 Precision Medicine for Mitral Valve Prolapse. From Genetics to Image Guidance  
**Volkmar Falk - International Guest Presenter**
- 0840 1.3 Death of Dogma is the Birth of Reality  
**Patrick Perier - International Guest Presenter**
- 0900 1.4 Universal use of Ablation with MV Surgery  
**Patrick McCarthy - International Guest Presenter**
- 0920 1.5 The Ross Procedure  
**Martin Misfeld - International Guest Presenter**
- 0940 1.6 Sutureless Valves: 15years Experience in Over 1400 Patients: A Valuable Device in Everyone's Toolbox  
**Bart Meuris - International Guest Presenter**
- 1000 MORNING REFRESHMENTS | *Exhibition Area*

## Scientific Session 2

Surgical and Transcatheter Valvular Interventions

Moderators: Jurgen Passage and David Muller

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- 1030 2.1 Patient Prosthesis Mismatch Affects Patients' Quality of Life and Longevity  
**Mohsen Habibian**
- 1050 2.2 Lifetime Planning for Aortic Stenosis  
**Ravi Bhindi**
- 1110 2.3 Robotic Aortic Valve Replacement  
**Tristan Yan**
- 1125 2.4 Valve-in-valve Transcatheter Aortic Valve Replacement for the Degenerated Sutureless Perceval Prosthesis: Technical Considerations  
**Christophe Dubois - International Guest Presenter**





# Friday 08 March

- 1145 2.5 Mitral Valve Repair, Focus on the Anterior Leaflet  
**Patrick McCarthy - International Guest Presenter**
- 1200 2.6 Percutaneous Mitral and Tricuspid Valve Repairs  
**Darren Walters**
- 1215 2.7 Tricuspid Valve Surgery in the Age of Structural Intervention  
**Volkmar Falk - International Guest Presenter**
- 1230 LUNCH | *Exhibition Area*

## Scientific Session 3

### Coronary Revascularisation and Treatment of Arrhythmias

Moderators: Russell Brereton and Darren Walters

---

- 1330 3.1 CABG Guided by Preoperative Coronary CT Angiography with CTFRR Rather than Invasive Coronary Angiography and 30-day FU after Grafting by CTA/CTFFR  
**John Puskas - International Guest Presenter**
- 1350 3.2 Long-term Survival Comparison of Multiple Versus Single Arterial Grafting in Males and Females  
**Justin Ren**
- 1405 3.3 What I have Learnt about Arterial Grafts  
**James Tatoulis**
- 1425 3.4 Novel Technique to Close Left Atrial Appendage and Impact on Early Post Operative CVA  
**Adam El Gamel**
- 1440 3.5 The Fate of Coronary Artery Disease in Patients Undergoing Valve Replacement for Severe Aortic Valve Stenosis  
**Christophe Dubois - International Guest Presenter**
- 1500 3.6 Hybrid Treatment of Inappropriate Sinus Tachycardia / Postural Tachycardia Syndrome  
**Mark LaMeir - International Guest Presenter**
- 1520 3.7 Redosing with Del Nido Cardioplegia  
**Vipin Balachandran**
- 1530 AFTERNOON REFRESHMENT | *Exhibition Area*



## Friday 08 March

### Scientific Session 4 Aortic Valve, Aortic Root and the Ross Procedure Moderators: Nelson Alphonso and Douglas Wall

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- 1600 4.1 Developing an AI Analysis of Procedural Imaging  
**Michael Wilson**
- 1615 4.2 Hybrid Cardiac Surgery - Meeting the Challenges of Complex Pathology  
**Michael Vallely**
- 1630 4.3 A Geometry-based Concept of Aortic Valve Repair  
**Hans-Joachim Schaefer - International Guest Presenter (Virtual)**
- 1650 4.4 Long Term Outcome of the David's Procedure  
**Martin Misfeld - International Guest Presenter**
- 1710 4.5 TAVI Explant Surgery - Reality Bites!  
**Emily Granger**
- 1725 4.6 When I will Not do a Ross, VSARS or PEARS  
**Homayoun Jalali**
- 1740 4.7 Ross Supported with PEARS  
**Conal Austin - International Guest Presenter (Virtual)**
- 1800 WELCOME RECEPTION | *Exhibition Area*

## Saturday 09 March

- 0700 - 0745 BREAKFAST SESSION SUPPORTED BY EDWARDS LIFESCIENCES: How low can you go? Should MVR age guidelines be lowered due to better bioprosthetic mitral valve durability?  
**Patrick McCarthy and Manu Mathur**
- 0715 - 0745 BREAKFAST SESSION: Best Intraoperative use of Sealants, Glues and Procoagulant Factors  
**Panel: Homayoun Jalali, Douglas Wall, George Matalanis and Peter Skillington**



# Saturday 09 March

## Scientific Session 5

Moderators: James Tatoulis and Manu Mathur

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- 0800 5.1 The Rationale for Hybrid Coronary Revascularization and how I do it  
**John Puskas - International Guest Presenter**
- 0820 5.2 Surgery for Failed TAVI  
**Martin Misfeld - International Guest Presenter**
- 0840 5.3 Redo Aortic Surgery  
**Sean Galvin**
- 0900 5.4 Essential Techniques in Mitral Valve Repair for the Posterior Leaflet Pathology  
**Patrick Perier - International Guest Presenter**
- 0920 5.5 When I add TV Surgery with Mitral Valve Surgery Factoring in the Impact of Annulus Size and AF  
**Patrick McCarthy - International Guest Presenter**
- 0940 5.6 Hybrid AF Treatment  
**Mark LaMeir - International Guest Presenter**
- 1000 MORNING REFRESHMENTS | *Exhibition Area*

## Scientific Session 6

Interventions for Mitral and Tricuspid Valves

Moderator: Paul Jansz and Hugh Wolfenden

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- 1030 6.1 Tissue Valve Degeneration: Mechanisms and New Strategies Towards Prevention  
**Bart Meuris - International Guest Presenter**
- 1050 6.2 Benefits of Repair Versus Replacement in Mitral Valve Surgery. The Cardiology Perspective  
**Darryl Burstow**
- 1110 6.3 Repairing Mitral Valves in Australia. Where are we?  
**Trevor Fayers**
- 1120 6.4 Repairing the Anterior Leaflet of the Mitral Valve  
**Patrick Perier - International Guest Presenter**
- 1140 6.5 Mitral Valve Surgery after Failed Intervention – Tips, Tricks, Options  
**Volkmar Falk - International Guest Presenter**
- 1200 6.6 Update on Durability of Bio-prosthesis in Mitral Position  
**Patrick McCarthy - International Guest Presenter**



1215 6.7 Mitral Valve in Valve - Lessons Learned after the First Few Cases  
**Jurgen Passage**

1230 LUNCH | *Exhibition Area*

Scientific Session 7  
Coronary Revascularisation  
Session in Recognition of James Tatoulis  
Moderators: Peter Skillington and John Goldblatt

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- 1330 7.1 Tribute to James Tatoulis' Career  
**John Goldblatt and Peter Skillington**
- 1340 7.2 LAD Coronary Endarterectomy and Stentectomy where there is a Full Metal Jacket  
**John Puskas - International Guest Presenter**
- 1400 7.3 Total Arterial Grafting and the TA Trial  
**Alistair Royse**
- 1415 7.4 Optimising Outcomes for each Conduit  
**Russell Breerton**
- 1430 7.5 Coronary Artery Aneurysms  
**James Tatoulis**
- 1450 7.6 The Approach to Anomalous Aortic Origin of Coronary Arteries  
**Peter Skillington**
- 1510 7.7 The Best and Worst CABG. A Cardiologist Perspective  
**Rustem Dautov**
- 1530 7.8 Who Should have Percutaneous Coronary Revascularisation in 2024 and Why  
**Darren Walters**
- 1545 AFTERNOON REFRESHMENTS | *Exhibition Area*

Scientific Session 8  
Aortic Root and Aortic Arch  
Moderators: Jayme Bennetts and George Matalanis

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- 1615 8.1 Mini Access Valve Sparing Aortic Root Surgery  
**Tristan Yan**
- 1635 8.2 Bicuspid Aortic Valve Repair with External Annuloplasty: A Standardized Approach According to Aorta Phenotype  
**Emmanuel Lansac - International Guest Presenter (Virtual)**



## Saturday 09 March

1655	8.3	An Update on Florida Sleeves <b>John Goldblatt</b>
1710	8.4	PEARS <b>Livia Williams</b>
1730	8.5	Management of Aneurysm in Hostile Chest <b>George Matalanis</b>
1750	8.6	CT Surgical Research: Impact or Impact Factor? <b>Paul Bannon</b>
1810	8.7	Closing Remarks and Future TPC Events <b>Homayoun Jalali</b>

## Sunday 10 March

### Masterclass Supported by Terumo | 0800 - 0930 Hybrid Open Surgical Arch Repair with Thoraflex™ Hybrid

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Key insights into indications and traps of FET  
**George Matalanis**

Leipzig FET Experience  
**Martin Misfeld**

“Deep Dive” – Descending Aortic Dissection Flap Fenestrations in FET  
**Tristan Yan**

**Practical Session on Aortic Models / Thoraflex Hybrid Deployment**

### Masterclass and Wetlab Supported by Edwards | 0800 - 0930 Aortic Root Management

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0930 MORNING REFRESHMENTS | *Exhibition Area*

### Doctors in Training and Young Consultants Session | 1000 - 1200

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1000	9.1	How I do (Routine) All-Arterial, No-aortic-Touch OPCAB <b>John Puskas - International Guest Presenter</b>
1020	9.2	Minimally Invasive Mitral Valve Surgery <b>Martin Misfeld - International Guest Presenter</b>
1040	9.3	Valve Sparing Aortic Root Surgery and Aortic Valve Repair <b>George Matalanis</b>



# Sunday 10 March

- 1055 9.4 Reoperative Cardiac Surgery. Tips and Tricks for a Safe Reopen  
**Russell Breerton**
- 1110 9.5 Arch Interventions, FETs  
**Sean Galvin**
- 1125 9.6 Mitral Valve Repair: Resect or Respect?  
**Volkmar Falk - International Guest Presenter**
- 1145 9.7 Mitral Valve Repair: From Underdog to one of the Largest National Practices. How to Plan the Path  
**Homayoun Jalali**
- 1200 LUNCH WITH INTERNATIONAL FACULTY





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Reduces calcification by nearly

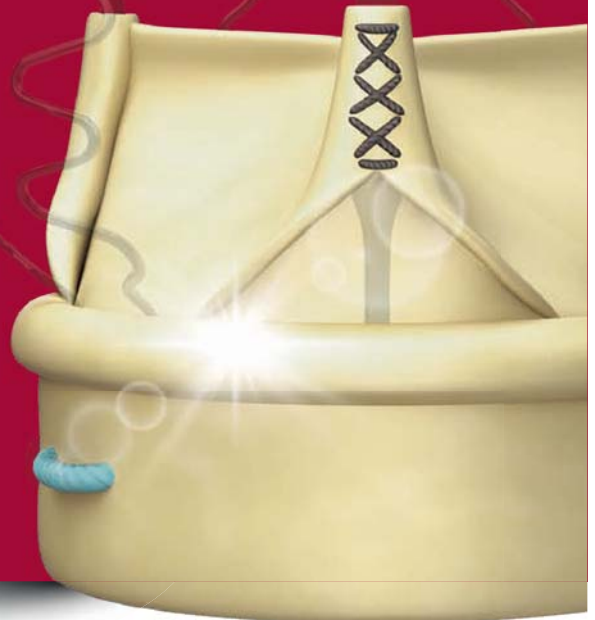
**100%**<sup>1</sup>

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With an SVD of

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pt/yr



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1. vs control group (Corcym data on file)

2. Corcym data on file

3. Lamberigts M, et al. "Sutureless aortic valves in isolated and combined procedures: 13 years of experience in 784 patients." *J Thorac Cardiovasc Surg.* (2022)

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Life to the power of RESILIA

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Designed to handle the pressure  
of the mitral position



A promise of freedom  
The reason is simple: because  
RESILIA tissue is different.



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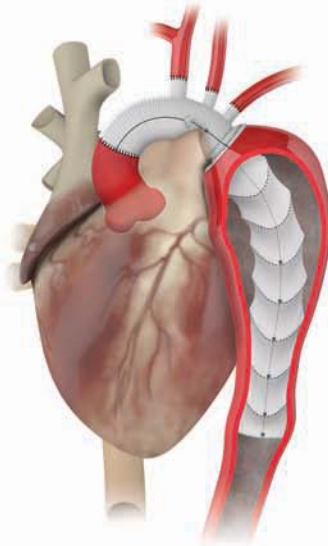


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A European study of 100 patients treated with a Thoraflex Hybrid for acute dissection (n=37), chronic dissection (n=31), and aneurysm (n=31) showed the following results in the versatile patient group during  $3.1 \pm 1.4$  years follow-up:<sup>1</sup>

- 1 **100% false lumen thrombosis** in the stented part of the aorta for dissection patients within 24 months post-implant
- 2 **22% underwent secondary reinterventions** of which 15% were planned and 60% endovascular
- 3 **81% survival**
- 4 **4.7% perioperative mortality**



**Reference:**

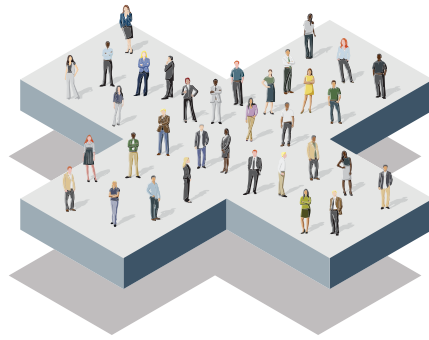
1. Shrestha M. et al. (2016). Total aortic arch replacement with a novel 4-branched frozen elephant trunk prosthesis: single-center results of the first 100 patients. J Thorac Cardiovasc Surg. 152:148-59. 10.1016/j.jtcvs.2016.02.077

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**TERUMO**  
Aortic



## Patients With AF Suffer From...

**5X** increase in  
stroke risk<sup>1</sup>

**46%** greater risk of  
death<sup>2,3</sup>

**5X** increase in  
heart failure  
(HF) development<sup>4</sup>

**MORE** cardiac  
complications<sup>4</sup>

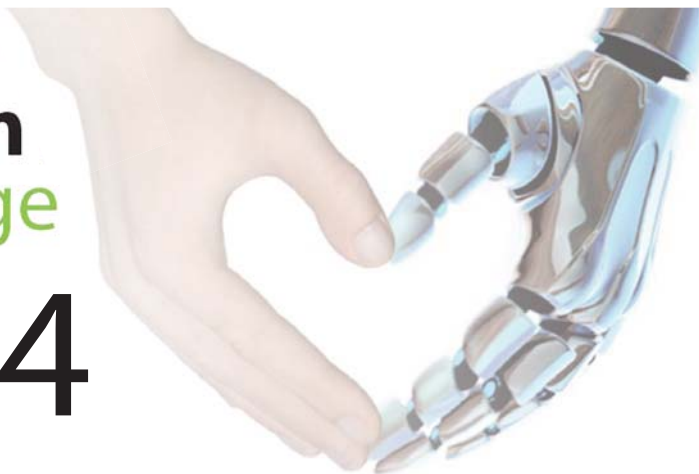
**Our goal is to elevate concomitant surgical  
AF treatment to standard of care.**

1. Gillinov, A.M. et al. (2015). Surgical ablation of atrial fibrillation during mitral-valve surgery. *N Engl J Med*, 372(15):1399-409.  
2. Voeller, R.K. et al. (2008). Isolating the entire posterior left atrium improves surgical outcomes after the Cox maze procedure. *J Thorac Cardiovasc Surg*, 135(4):870-7.  
3. Barnett, S.D., & Ad, N. (2006). Surgical ablation as treatment for the elimination of atrial fibrillation: a meta-analysis. *J Thorac Cardiovasc Surg*, 131(5):1029-35.  
4. Gillinov, A.M. et al. (2006). Surgery for permanent atrial fibrillation: impact of patient factors and lesion set. *Ann Thorac Surg*, 82(2):502-14.



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