

TASMANIAN
HEALTH
SERVICE



Tasmanian
Clinical
Networks
*Improving patient care through
cooperation and collaboration.*

phn
TASMANIA
An Australian Government Initiative



Top 4 Quality Improvement Initiatives in Cardiology

The Cardiac Community Network Education Interface Program - 3 November 2020

Acknowledgment of traditional owners

I would like to acknowledge the Tasmanian Aboriginal people as the traditional owners and ongoing custodians of the land from which we are joining this evening webinar I pay respect to Elders past and present. I would also like to acknowledge Aboriginal people who are with us this evening.

PHT is supporting this webinar series

- Webinar platform and support
- Invites and evaluations
- RACGP event accreditation
- Member of the Cardiac Community Network

Hello my name is Russell Bowden – Manager Primary Health
Workforce Support

Your THS GP Liaison Team

Your 'go to' people for all things THS related

Region	GP Liaison Officer/s	Email
Southern Tasmania	Dr Annette Barratt Dr Elizabeth (Liz) Webber	gplo.south@ths.tas.gov.au
Northern Tasmania	Dr Isobel (Izzy) Morse	izzy.morse@ths.tas.gov.au
North West Tasmania	Dr Keith McArthur	keith.mcarthur@ths.tas.gov.au

Overview of this evening

- Dr Paul MacIntyre
Introducing the Tasmanian Cardiac Network
- Dr Andrew Black
State-wide ST Elevation Myocardial Infarction (STEMI) Network
- Dr Jonathan Lipton
Electrophysiology Service (EPS)
- Dr Heath Adams
Transcatheter Aortic Valve Implantation (TAVI) / Patent Foramen Ovale (PFO's)

Tonights learning objectives

- Explain the purpose and structure of the Tasmanian Cardiac Network and its role in improving the interface between primary health and secondary acute care facilities
- Describe the optimal STEMI reperfusion treatment options
- Explain the impact of arrhythmia on patient quality of life and health care resources
- Describe the current services, resources, and procedures available to Tasmanians with structural heart disease



Some housekeeping

- Tonight's webinar is being recorded
- Please use the Zoom Q&A chat feature to ask questions
- Answers to any questions we can't answer tonight will be circulated with the recording in the coming days
- At the end of the webinar you will be asked to complete an evaluation survey, this is important to help us improve our events program
- Please don't forget to register for the next 2 webinars in this series (ECG Workshop and ECHO Workshop) at:

<https://www.primaryhealthtas.com.au/for-health-professionals/events/>

Dr Paul MacIntyre

MBChB, MSc, MD, FRACP | Acute Medical Services Stream Director | Staff Cardiologist | Royal Hobart Hospital | Chair of the Tasmanian Cardiac Network

The Tasmanian Cardiac Network



Tasmanian Cardiac Network

Dr Paul D MacIntyre



Historical Perspective

- Clinical Advisory Groups 2015
- Heartsafe project 2017-18
 - Implementing Acute Coronary Syndrome Clinical Standards
 - Addressing equity of access to treatment for ACS
- Tasmanian Cardiac Network 2019
 - Based on Scotland's MCN model



Tasmanian Cardiac Network Mission

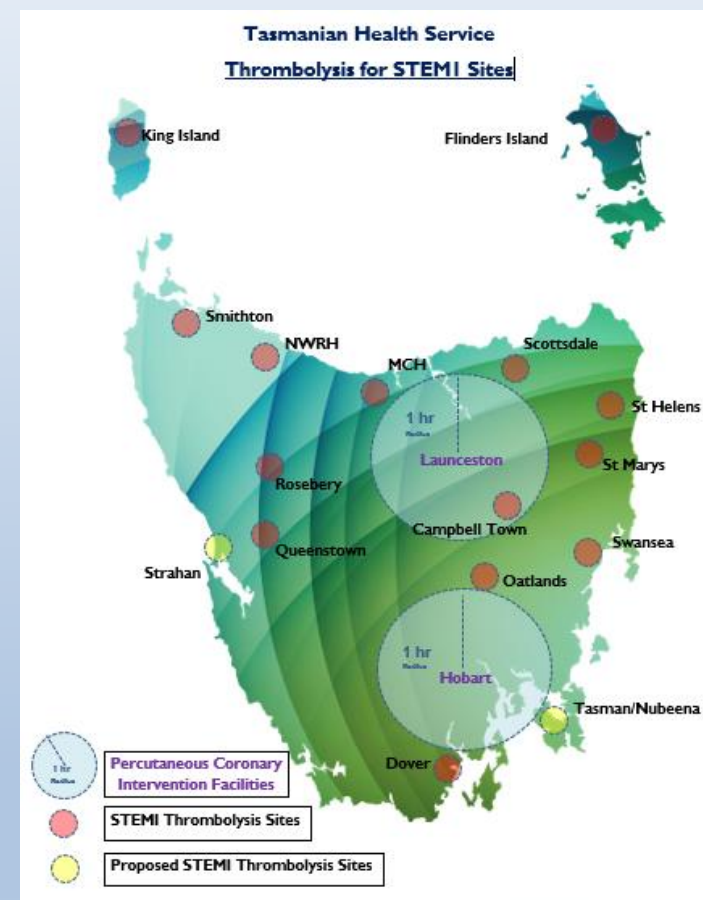
“The Tasmanian Cardiac Network will strive to improve, optimise and sustain Cardiac Services, enabling all Tasmanians to have access to safe, high quality care regardless of geographic location.”

Role of Tasmanian Cardiac network

- Identify gaps in service delivery
- Address equity of access to cardiac care
- Align with Tasmanian Role Delineation Framework
 - Deliver local secondary care services where possible
 - Centralise level 5 and 6 services as necessary
- Develop state wide referral pathways and protocols
 - ACS pathway
 - Endocarditis pathway
- Quality improvement
 - Australian Commission on Safety and Quality in Health Care Standards
- Stakeholders engagement
 - Collaboration and education
 - Rural and acute settings.

Tasmanian Cardiac Network Priorities

- Victorian Cardiac Outcomes Registry
- ACSQHC for ACS
 - Optimal Reperfusion
 - Thrombolysis capability
 - Rural hospitals
 - Paramedic led
 - Primary PCI at intervention centres
 - First medical contact to reperfusion
 - Prenotification by AT
- Endocarditis pathway
- State-wide Improvement Strategy for Heart Failure
- Cardiac Rehabilitation and secondary prevention
- Health promotion strategies - reduce cardiovascular risk factors and increase absolute CVD risk assessment.
- Tasmanian Heart Foundation State-wide Cardiac Service Plan 2018 – 2022



Tasmanian Cardiac Network Further QI Initiatives

State-wide AF Management

- *Working group formed*
- *Representatives - ED, CNC, Heart Foundation, GP liaison*

Reducing Heart Failure readmission rates

- *Community based medication titration pathway - to progress Community based Medication Titration, UTAS patient DVD and patient pamphlet*

Cardiac Community Network

- *Improve interface between primary health and secondary acute care facilities*
- *Enable primary health services to support and manage cardiac clients in the community setting, seeking timely secondary opinions through quality referral process*
- *Education Programme*

Tasmanian Cardiac Community Network

a collaboration

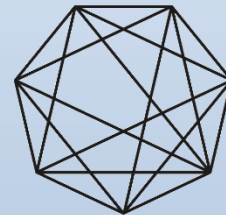
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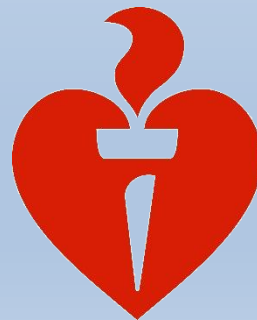
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**primary
health**
TASMANIA



**Heart
Foundation**

**Tasmanian
Clinical
Networks**

*Improving patient care through
cooperation and collaboration.*

National Clinical Networks

Clinical Excellence Queensland Health

<https://clinicalexcellence.qld.gov.au/priority-areas/clinician-engagement/statewide-clinical-networks/cardiac>

NSW Government Agency for Clinical Innovation

<https://www.aci.health.nsw.gov.au/networks/cardiac>

Safer Care Victoria Better Safer Care

<https://bettersafercare.vic.gov.au/about-us/about-scv/our-clinical-networks/cardiac-clinical-network>

Dr Andrew Black

BMedSci (Hons), MBBS (Hons), FRACP | Staff Cardiologist | Clinical Lead State-wide STEMI Management, Rapid Access Chest Pain Clinic (RACPAC) and Principal Investigator VCOR | Royal Hobart Hospital

Tasmanian STEMI Network

TASMANIAN STEMI NETWORK

IMPROVING EQUITY OF ACCESS TO OPTIMAL CARE

TASMANIAN
HEALTH
SERVICE



MENZIES 
Institute for Medical Research

Learning Objectives:

Knowledge of optimal STEMI reperfusion treatment options

Understanding of the utilisation of Thrombolysis for STEMI Clinical Pathway

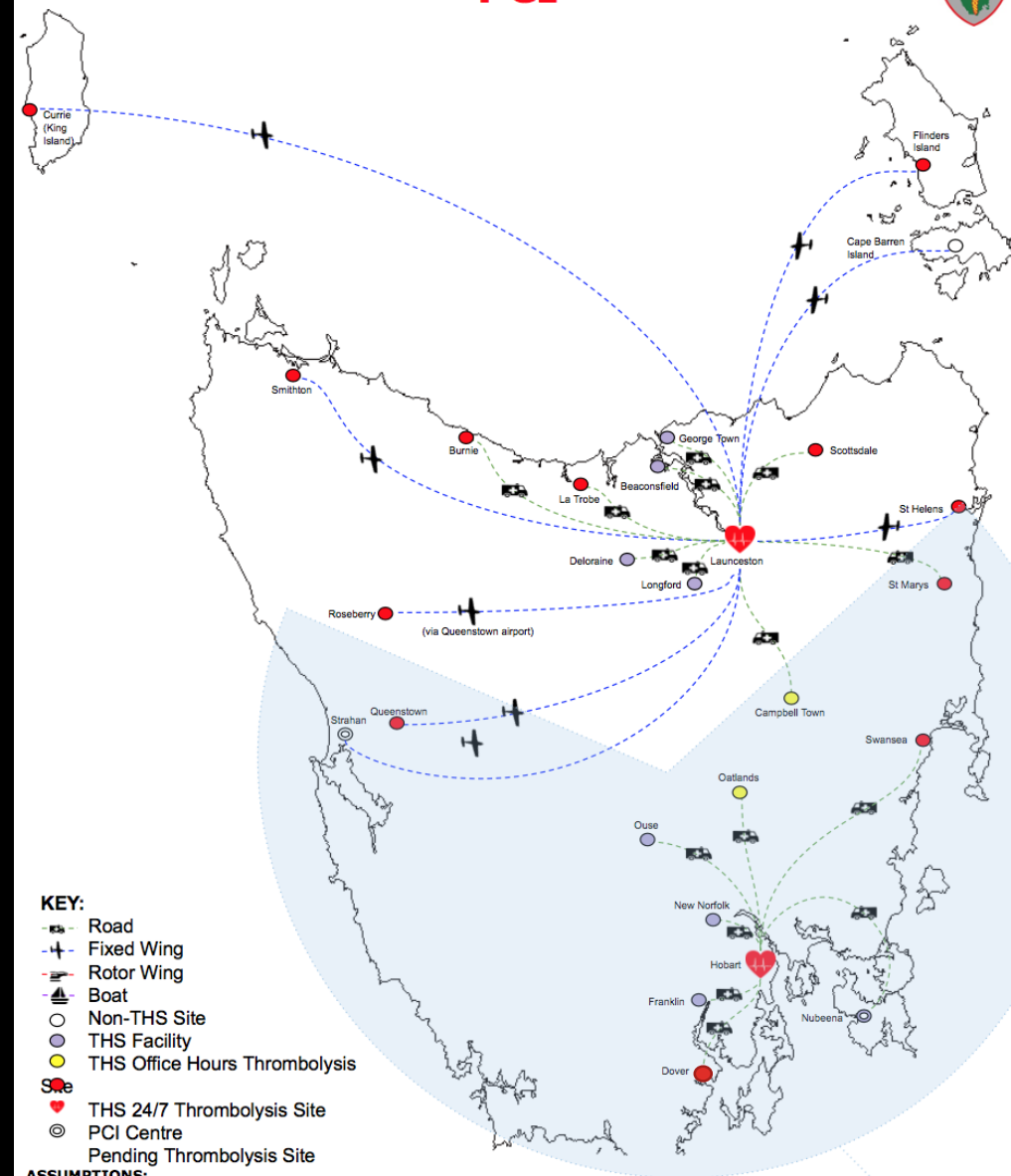
Increased awareness of RACPAC services at the RHH

Identify appropriate RACPAC referral criteria

STRATEGY

- *Improve access to timely reperfusion*
 - Better use of lysis
 - Streamline retrieval
 - Optimize DTRT
- Data collection

STEMI Tactical Map PCI



KEY:

- Road
- Fixed Wing
- Rotor Wing
- Boat
- Non-THS Site
- THS Facility
- THS Office Hours Thrombolysis
- THS 24/7 Thrombolysis Site
- ◎ PCI Centre
- ◎ Pending Thrombolysis Site

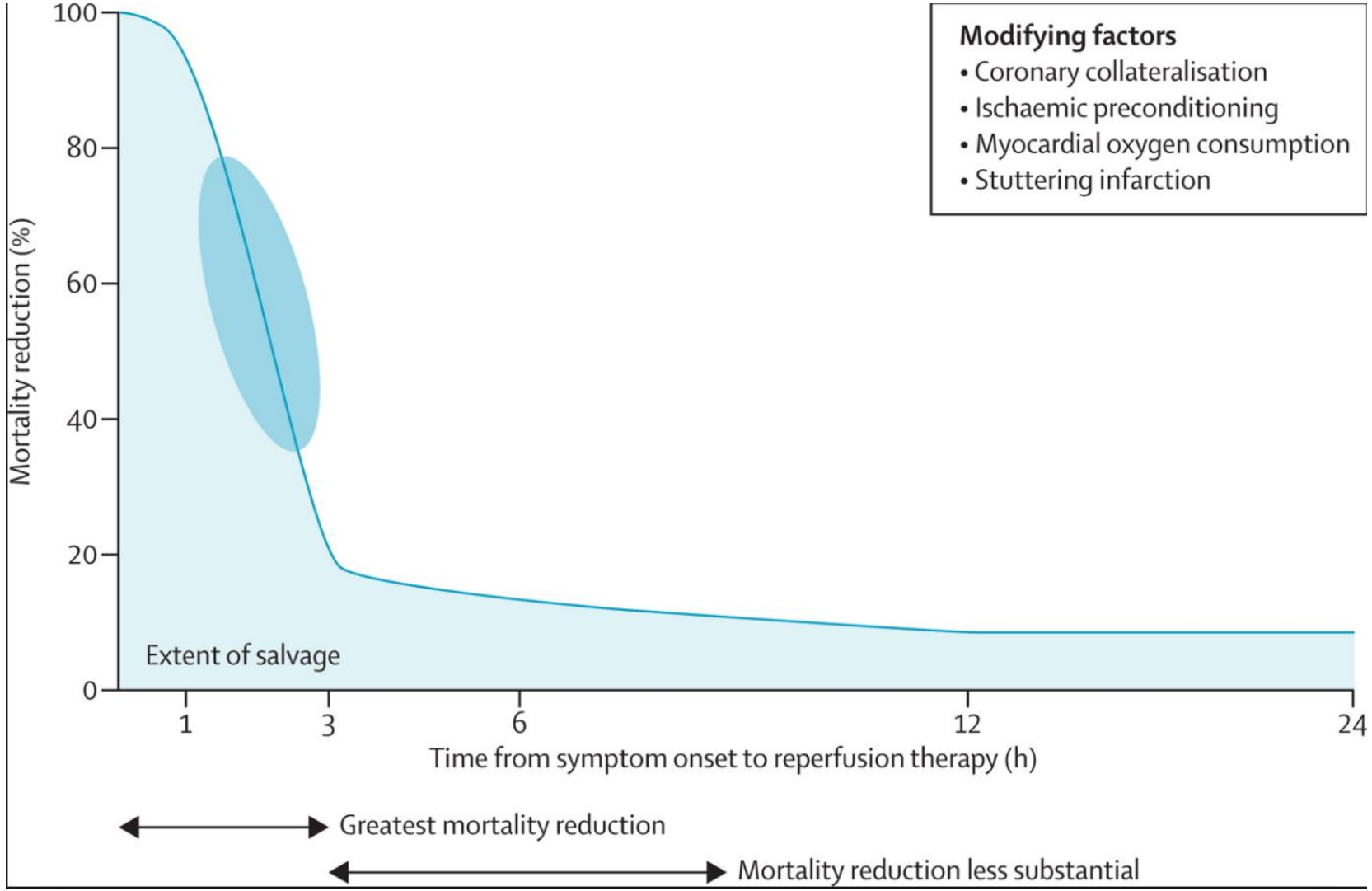
ASSUMPTIONS:

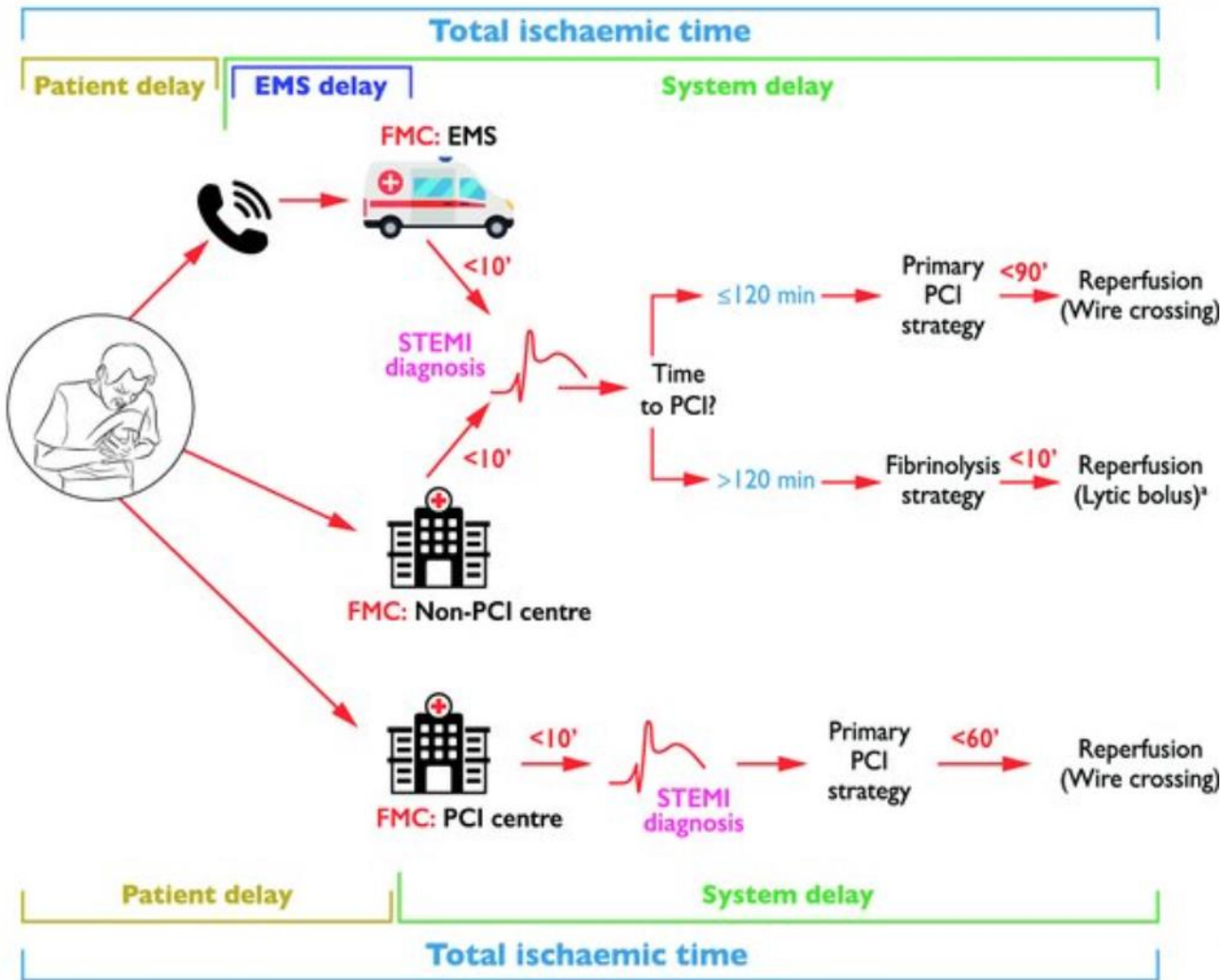
- Daylight hours (hence able to fly to all locations across the state)
- Weather permits flying
- Plane on the ground in Launceston
- Rotor Wing activation <20mins
- No resourcing issues (able to road versus fly; specifically regarding NWRH to LGH)
- Cath lab availability at nearest PCI facility

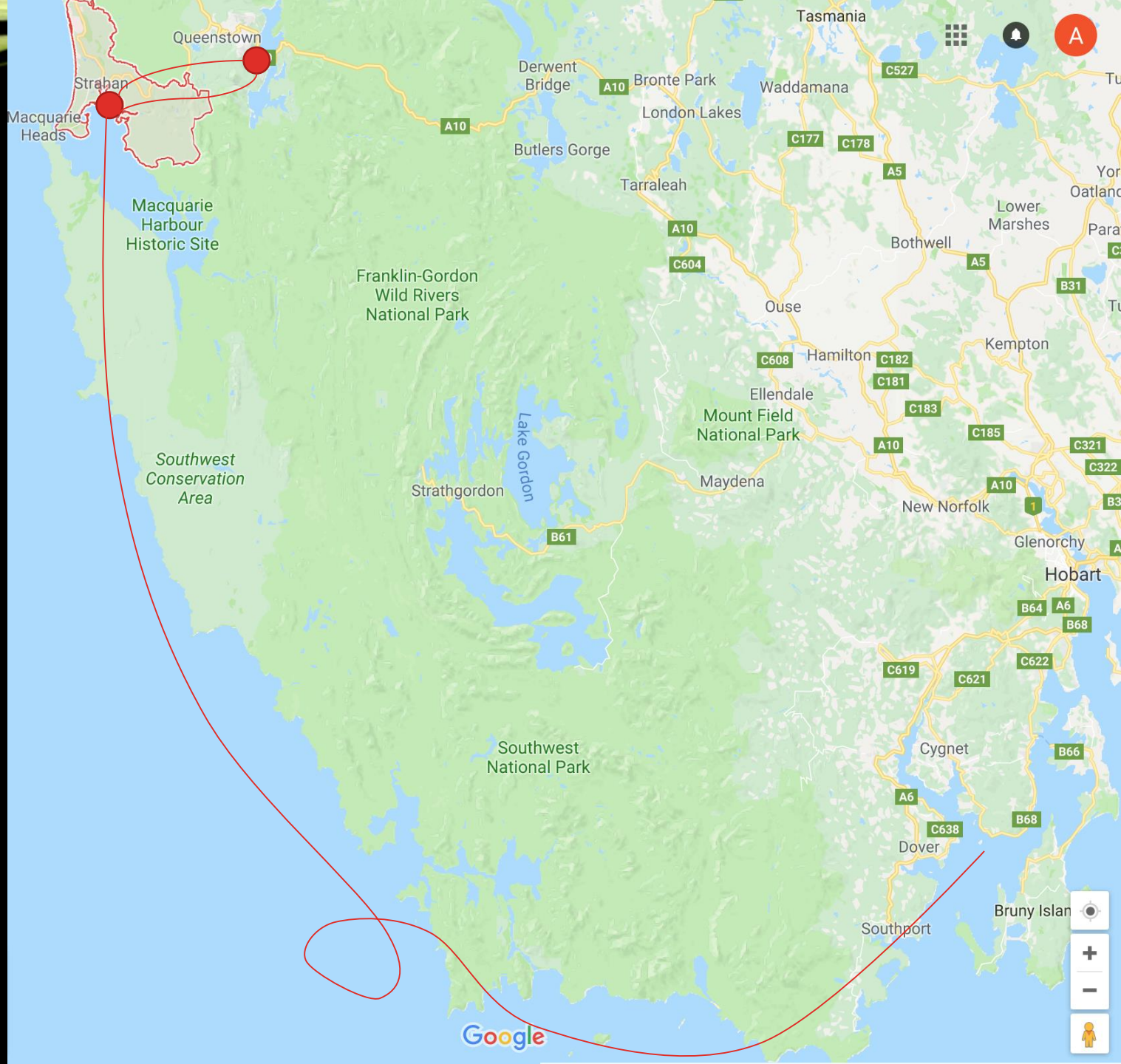
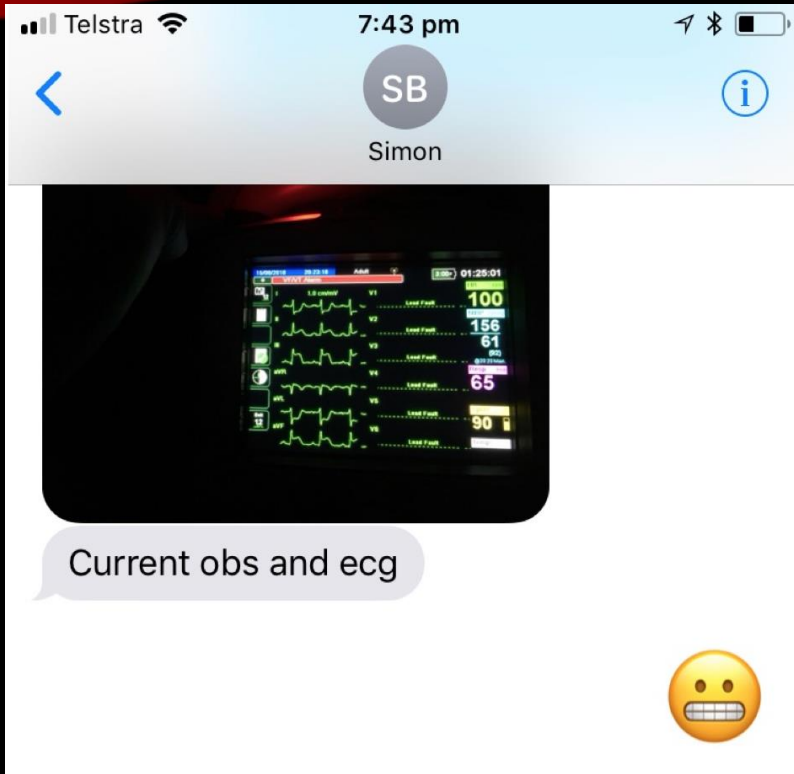
PLEASE NOTE:

- Roseberry would require road transfer to airport at Queenstown (50 mins) or Strahan (60 mins)

Consider Rotor Wing in the shaded zone







BETTER USE OF LYSIS



THROMBOLYSIS FOR STEMI CLINICAL PATHWAY

STATEWIDE

FACILITY: _____

relevant boxes throughout

Presentation time / date: / / Symptom onset: / /

Use this pathway for thrombolysing patients with acute ST – elevation myocardial infarction (STEMI). Primary Percutaneous Coronary Intervention (PCI) is preferred if achievable within 90 minutes of first medical contact (FMC) – that is: transport time less than 60 minutes (or transport time less than 90 minutes for patients presenting > 2 hours after symptom onset)

Clinical Pathways do not replace clinical judgement, variances must be clearly documented in the patient notes.

I. CONFIRM INDICATIONS FOR THROMBOLYTIC REPERFUSION

- Cannot be treated with PCI within 90 minutes of FMC and
 - Typical chest pain \geq 20 minutes duration and
 - Symptom onset within 12 hours and
 - 12 lead ECG reveals persistent ST segment elevation in two or more contiguous leads:
 - \geq 2.5 mm ST elevation in leads V_{2,3} in men under 40 years or
 - \geq 2 mm ST elevation in leads V_{2,3} in men over 40 years or
 - \geq 1.5 mm ST elevation in V_{2,3} in women or
 - \geq 1.0 mm in other leads or
 - Development of new left bundle branch block (LBBB)
 - Consider posterior myocardial infarction
- If all criteria are not met, contact Cardiology Services or Ambulance Tasmania Retrieval Consultant for advice.*

2. CONSIDER CONTRA-INDICATIONS (answer every question)

Absolute		Yes	No
Active bleeding or bleeding diathesis	<input type="checkbox"/>	Yes	No
Severe, uncontrolled hypertension (BP > 180/110 mmHg)	<input type="checkbox"/>	Yes	No
Recent trauma / surgery	<input type="checkbox"/>	Yes	No
Gastrointestinal or genitourinary bleeding within previous 2-4 weeks	<input type="checkbox"/>	Yes	No
Stroke / TIA within 12 months	<input type="checkbox"/>	Yes	No
Prior intracranial haemorrhage at any time	<input type="checkbox"/>	Yes	No
Suspected aortic dissection	<input type="checkbox"/>	Yes	No
Known malignant intracranial neoplasm	<input type="checkbox"/>	Yes	No
Relative		Yes	No
Current anticoagulants (including warfarin and novel anticoagulant agents)	<input type="checkbox"/>	Yes	No
Traumatic or prolonged CPR (> 10 minutes)	<input type="checkbox"/>	Yes	No
History of chronic, severe, poorly controlled hypertension	<input type="checkbox"/>	Yes	No
Advanced liver disease	<input type="checkbox"/>	Yes	No
Advanced metastatic cancer	<input type="checkbox"/>	Yes	No
Non-compressible vascular punctures	<input type="checkbox"/>	Yes	No
Pregnancy or within one week postpartum	<input type="checkbox"/>	Yes	No

If 'yes' to any of the above, contact Cardiology Services or Ambulance Tasmania Retrieval Consultant for advice.

NO CONTRA-INDICATIONS



Immediately proceed to thrombolysis (target < 30 minutes of FMC)

PT ID									
SURNAME	D.O.B.								
OTHER NAMES									
ADDRESS									

THROMBOLYSIS FOR STEMI CLINICAL PATHWAY

STATEWIDE

FACILITY: _____

relevant boxes throughout

3. PREPARATION FOR THROMBOLYSIS

- Non-PCI centres: Contact Ambulance Tasmania (1300 558 329) to arrange immediate transfer to PCI facility
- Transmit STEMI ECG & transfer form to stemi@ambulance.tas.gov.au
- Obtain written or verbal consent (sign below)
- It is preferable for 2 IV cannulas to be inserted one in each arm (avoiding the right radial area)
- Continuous cardiac monitoring, with defibrillator immediately available
- Take bloods for venous blood gases (if available), troponin, FBC, U&Es, COAGs

4. ADMINISTRATION OF THROMBOLYSIS (document medication on the STEMI Thrombolysis Medication Chart)

- Aspirin 300 mg PO (unless already given)
- Clopidogrel 300 mg PO
- Anticoagulation – Enoxaparin OR Heparin (for severe renal failure, if eGFR < 30 mL/min)
 - Age less than 75 years**
 - Enoxaparin loading dose 30 mg IV bolus. (To give 30 mg dose IV, use the 60 mg prefilled syringe. **Expel the air bubble** and the excess Enoxaparin before injecting)
 - Enoxaparin 1 mg/kg (up to 100 mg) subcutaneously commenced 15 minutes after IV load and continued every 12 hours
 - Age 75 years or more**
 - No Enoxaparin IV Bolus, Enoxaparin 0.75 mg/kg (up to 75 mg) subcutaneously every 12 hours
- OR Patients with known RENAL FAILURE (eGFR <30 mL/min/1.73 m²)**
 - Unfractionated heparin - give unfractionated heparin 5 000 units followed by continuous infusion of 100 units per mL running 10 mL per hour, 5 000 units heparin in 50 mL 0.9% sodium chloride can be draw up in a 50 mL syringe for Ambulance Tasmania transport. If infusion running for more than 4 hours without transfer to acute medical facility, contact Cardiology Services for advice
- Tenecteplase (see dose guide on page 3)
 - Patient weight: _____ kg
 - If patient age **greater than 75 years**, tenecteplase should be administered at **half** the weight based dose.
- Atorvastatin 80 mg PO

5. POST THROMBOLYSIS

- Transmit medication chart and ECG's to stemi@ambulance.tas.gov.au
- 12 lead ECGs reviewed at 30, 60 and 90 minutes
- Ensure complete documentation of medical history
- Continuous Cardiac Monitoring

Treating Medical Officer (print name): _____

Signature: _____ Time / date: 00:00 DD / MM / YYYY

Consent

The risks (Reperfusion arrhythmias, Haemorrhage, Cerebral and GIT 1.5% and Death) and benefits of thrombolysis medication have been explained to me / legal guardian and I consent to have this medication administered.

Patient name and signature / legal guardian (print): _____

Date: DD / MM / YYYY

PT ID									
SURNAME	D.O.B.								
OTHER NAMES									
ADDRESS									

THROMBOLYSIS FOR STEMI CLINICAL PATHWAY

THROMBOLYSIS FOR STEMI CLINICAL PATHWAY

FT043332

FT043332

TAS-THIS-NWY-208232-418 RFP 0038 APR 18 010

THROMBOLYSIS FOR STEMI CLINICAL PATHWAY

STATEWIDE

FACILITY: _____

PT ID										
SURNAME									D.O.B	
OTHER NAMES										
ADDRESS										

ST ELEVATION MYOCARDIAL INFARCTION (STEMI) THROMBOLYSIS MEDICATION CHART

1st prescriber to print Patient Name and Check Label Correct Ward/Unit: _____

ALLERGIES & ADVERSE DRUG REACTIONS (ADR)			Prescriber to sign and date each order
Nil Known	Unknown	(tick appropriate box or complete details below)	
Drug (Other)	Reaction/Type/Date	Initials	Patient Weight: _____ kg

Print name: _____ Signature: _____ Date: DD / MM / YYYY

Once only medications (*Give all medications as indicated unless contraindicated*)

Oral adjuncts to thrombolysis

	Date prescribed	Medicine	Route	Dose	Date/time of dose	Prescriber Signature	Given by	Time given
1.	DD / MM / YYYY	Aspirin	PO	300 mg	stat			00:00
2.	DD / MM / YYYY	Clopidogrel	PO	300 mg	stat			00:00

Adjuvant anticoagulation therapy for thrombolysis - 3a. Enoxaparin OR 3b. Heparin

3a.

- Age less than 75 years: Enoxaparin 30 mg IV bolus, followed 15 minutes later by 1 mg/kg (up to 100 mg) subcut (To give 30 mg dose IV, use the 60 mg prefilled syringe).
- Age 75 years or more: Enoxaparin 0.75 mg/kg (up to 75 mg) subcut **ONLY (NO IV Bolus)**

DD / MM / YYYY	Enoxaparin	IV	30 mg	stat		/	00:00
DD / MM / YYYY	Enoxaparin	Subcut		stat		/	00:00

OR

3b.

For patients with known renal failure (eGFR <30 mL/min/1.73 m²) give unfractionated heparin 5 000 units IV bolus, then continuous infusion of 100 units per mL running at 10mL per hour (5 000 units heparin in 50 mL 0.9% sodium chloride)

DD / MM / YYYY	Heparin	IV	5 000 units	stat		/	00:00
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Thrombolysis with Tenecteplase

- Dose according to weight adjusted dose guide.
- If patient age greater than 75 years, tenecteplase should be administered at half the weight based dose.

Tenecteplase Dose Guide Using 5 mg/mL solution once reconstituted

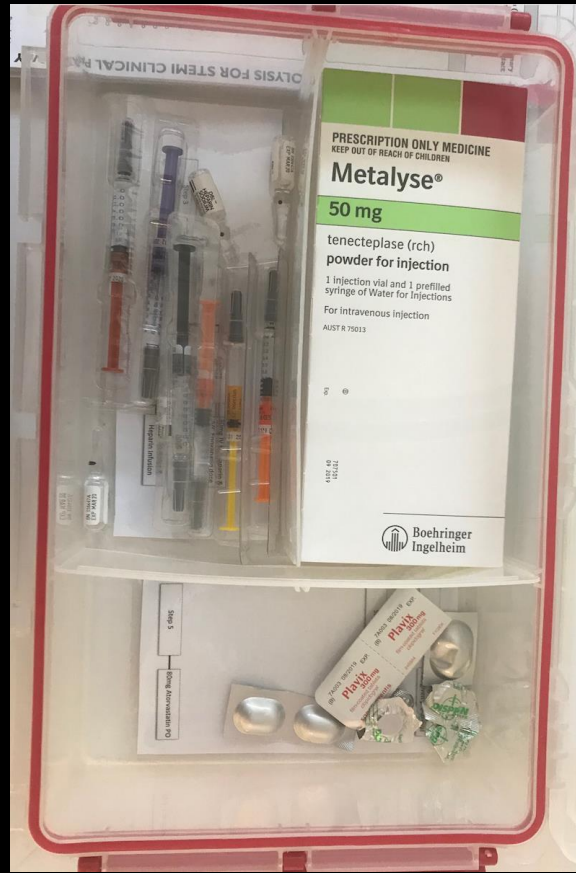
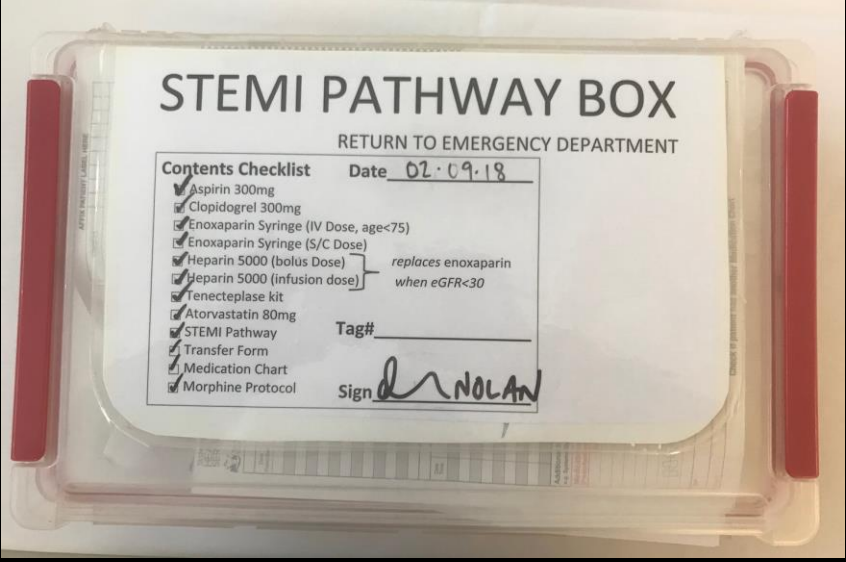
Body weight kg	Units	mg	Volume
Less than 60 kg	6 000	30 mg	6 mL
60 to 70 kg	7 000	35 mg	7 mL
71 to 80 kg	8 000	40 mg	8 mL
81 to 90 kg	9 000	45 mg	9 mL
91 kg or greater	10 000	50 mg	10 mL

	Date prescribed	Medicine	Route	Dose	Date/time of dose	Prescriber Signature	Given by	Time given
4.	DD / MM / YYYY	Tenecteplase	IV	mg(mL)	stat			00:00
5.	DD / MM / YYYY	Atorvastatin	PO	80 mg	stat			00:00

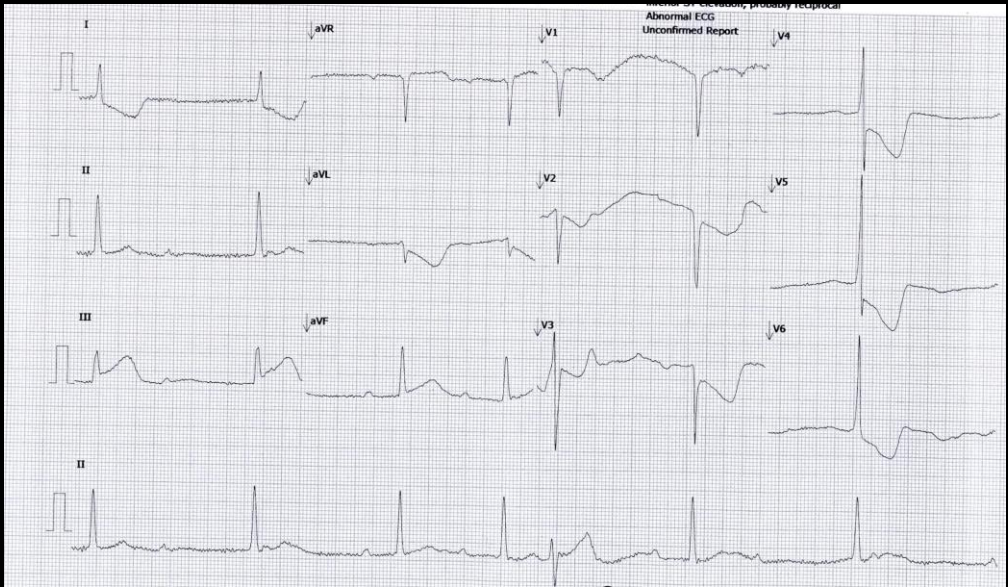
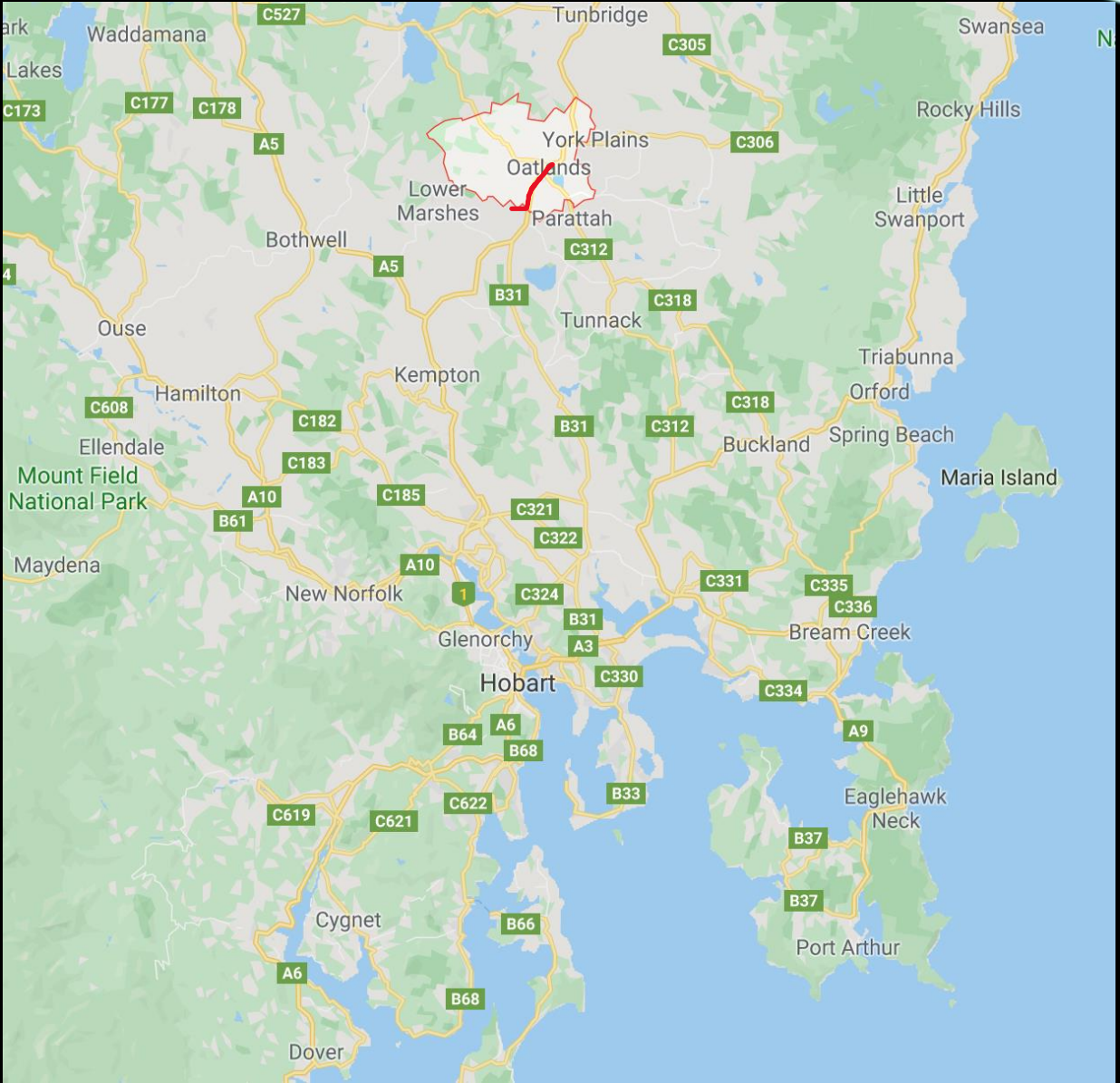
Doctor (print name – block letters): _____
 Signature: _____ Time / date: 00:00 DD / MM / YYYY (24 hour clock)

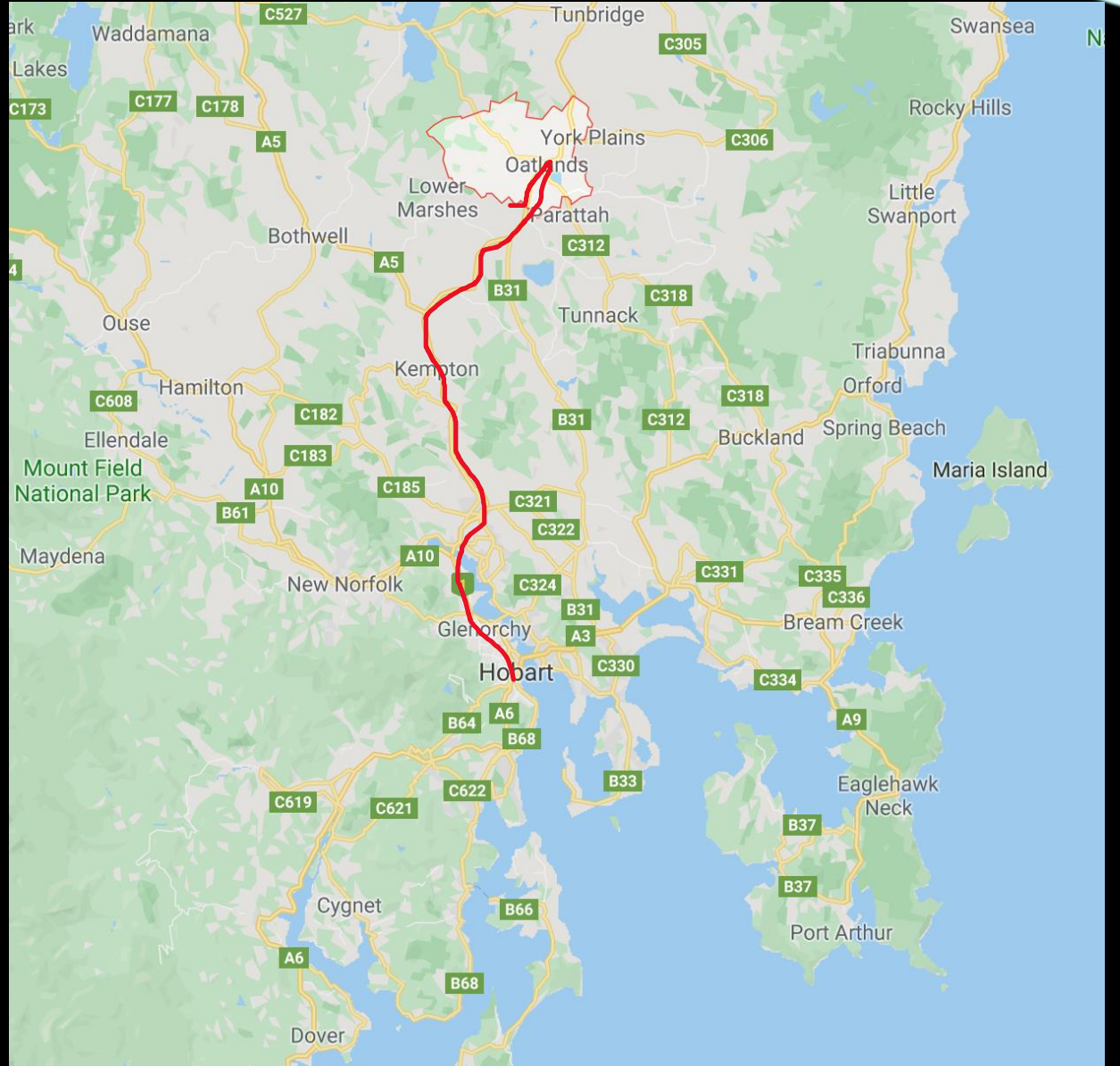
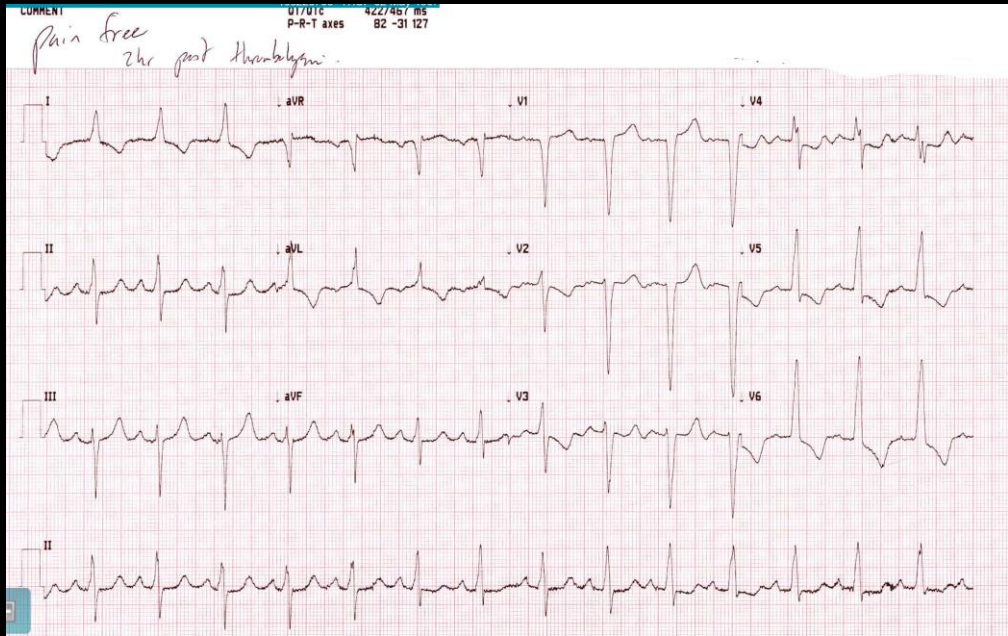
Check if patient has another Medication Chart Hospital Prescription Only
 Please refer to electronic medication history or where possible refer to current drug chart

THROMBOLYSIS FOR STEMI CLINICAL PATHWAY









[Redacted]

H

Royal Hobart Hospital
Dr Andrew Black
VC21C 161026
HFS
RJ/IE/

F
STUDY 1
21/06/2019
1:35:06 PM
S - 1/81

0.00 sec

R

Core Sharp LD

cm 20
A
KV 88
mA 335
D 118
LFO 44° / CAUD 2°



776 x 776

EE 21%
DDO 50%

WV 2055
WW 1900

[Redacted]

H

Royal Hobart Hospital
Dr Andrew Black
VC21C 161026
HFS
RJ/IE/

F
STUDY 1
21/06/2019
2:00:01 PM
20 - 1/29

0.00 sec

R

Card Sharp LB

cm 20
A
kV 80
mA 359
D 117
LAO 32° / CRAN 3°



776 x 776

EE 21%
DDO 50%

WVC 2055
WW 2100

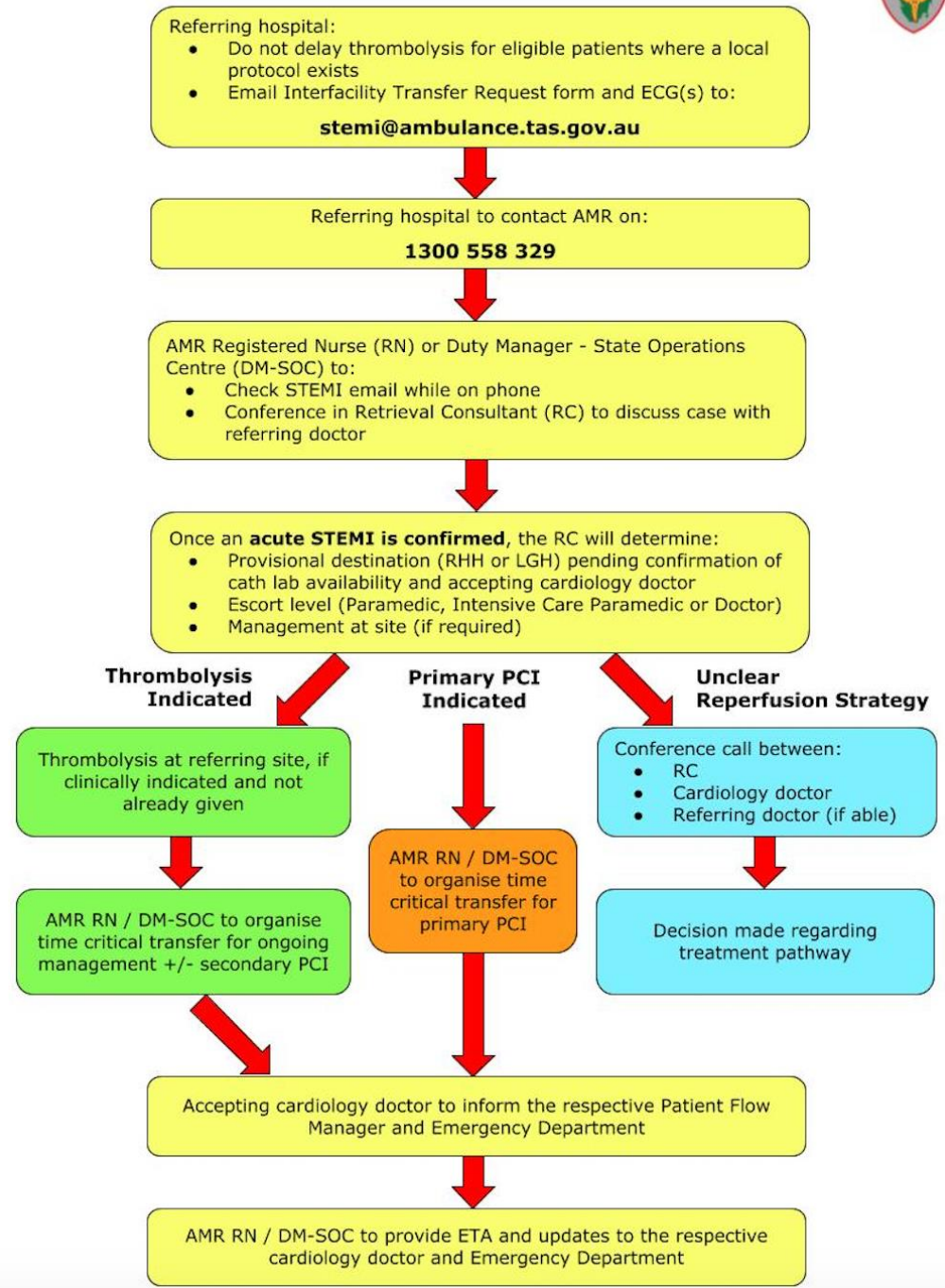
STREAMLINE RETRIEVAL





Aeromedical & Retrieval (AMR) STEMI Coordination Pathway

- Single call
- AMR nurse
- Time critical transfer
- Bed co-ordinators



OPTIMIZE DTRT

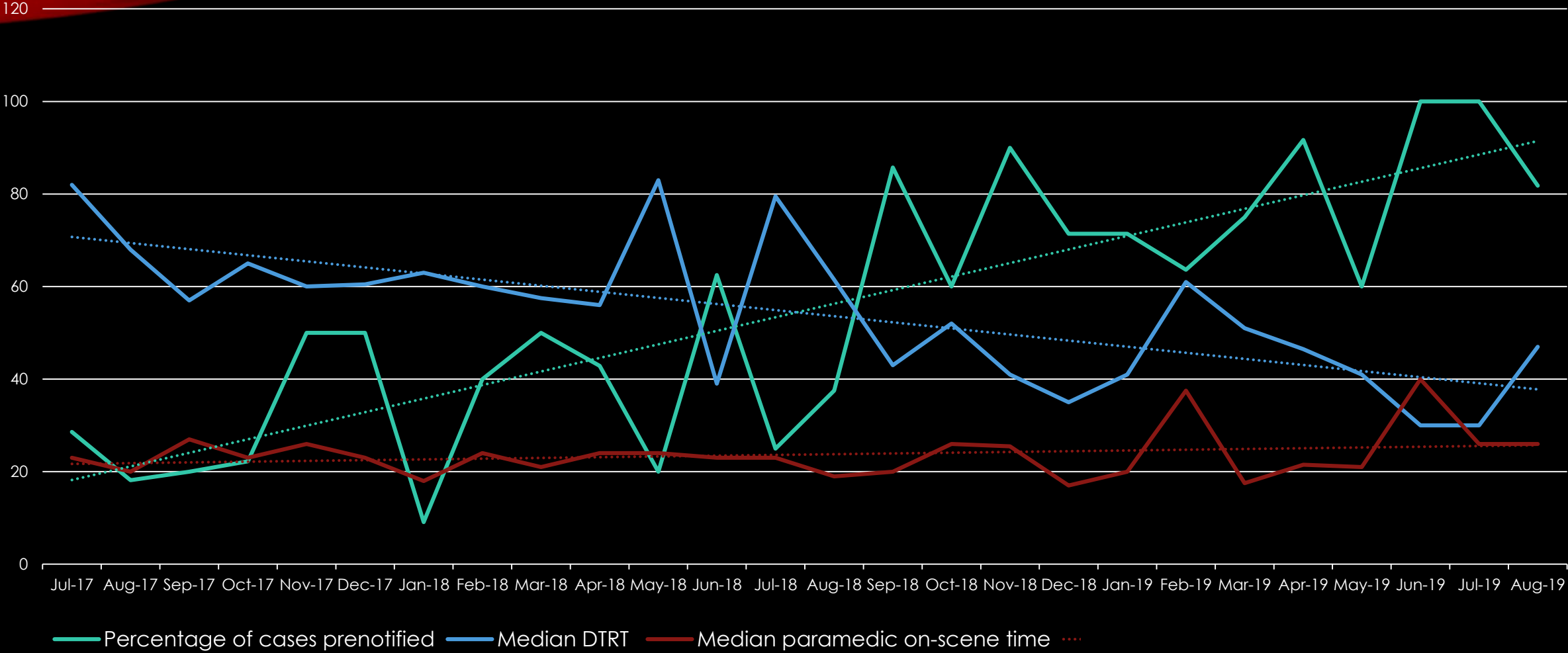


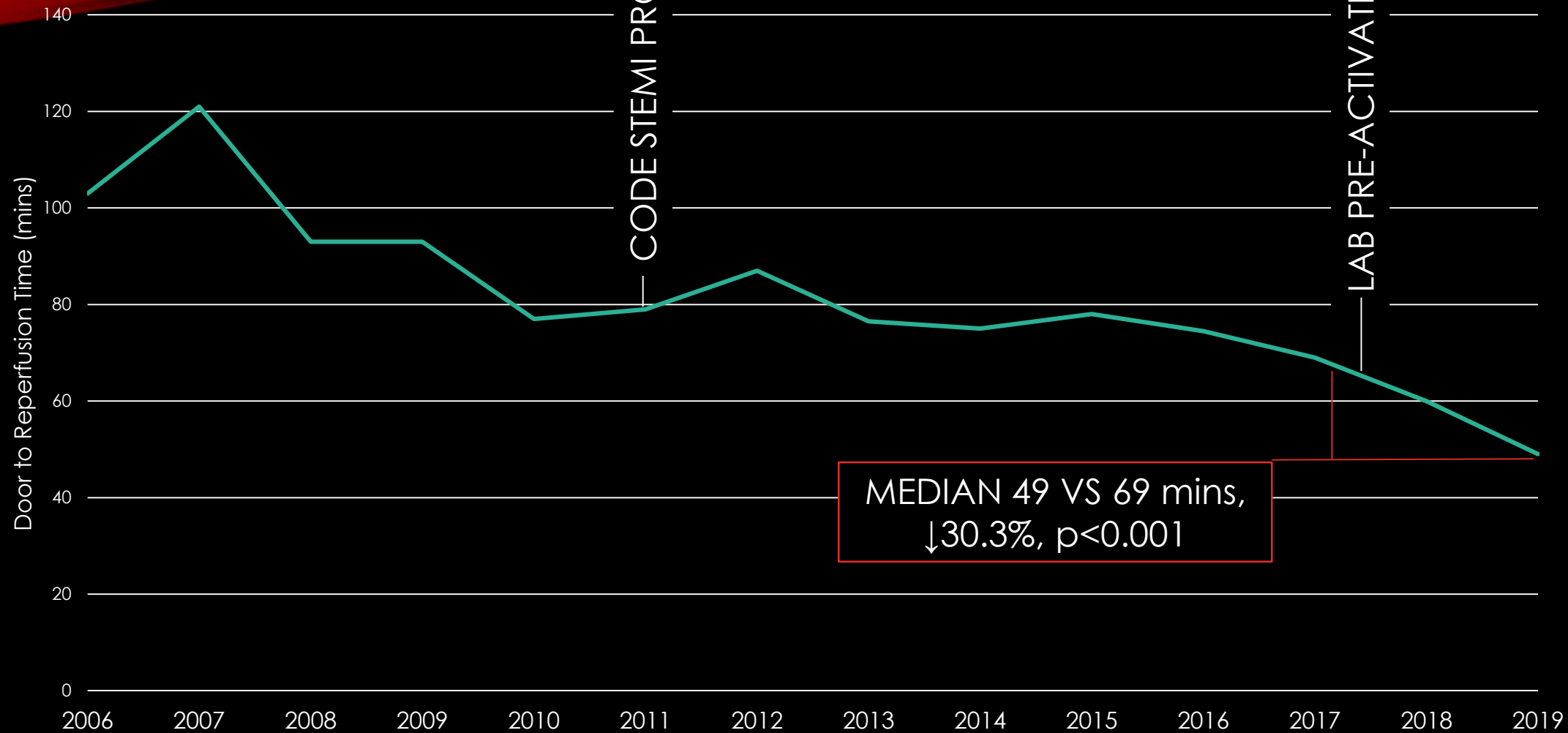
Paramedic STEMI recognition

AMR RN / Consultant

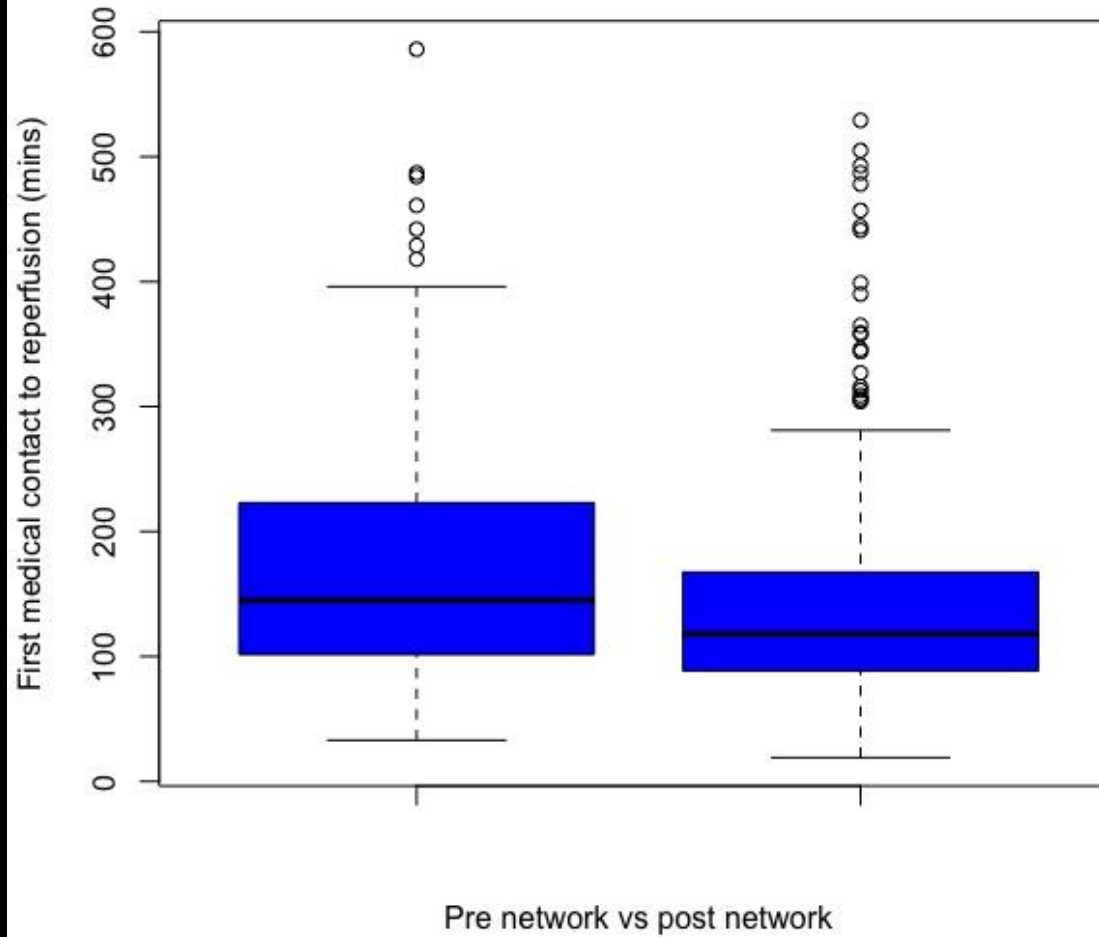
- RHH Switch: Code STEMI
- ED (anaesthetics)

Ambulance arrival STEMI's RHH





Reperfusion times pre and post network



Median reperfusion time:
Pre: 145.0
Post: 118.0
 $P < 0.001$
(Adjusted linear regression)

Hospital	Total STEMI population		Pre-Network		Post-Network		p-value
	Total STEMI cases (n)	Proportion of total STEMI cases (%)	Median Reperfusion time	IQR	Median Reperfusion time	IQR	
RHH	231	37.90	114	52	99	48.5	<0.01
LGH	172	28.20	132.5	75.25	130	67.25	0.97
MCH	94	15.40	224	157.25	148	135.75	<0.01
NWRH	75	12.30	166	159	137	203.75	0.54

WHERE TO?

- Lysis
 - Few more sites
 - Paramedic led lysis
- Retrieval
 - Ongoing improved capacity
- PCI centres
 - Consolidation

ACKNOWLEDGMENTS

- AT Paramedics
- Tanya Murray, Project Manager, THS
- Naj Anderson & Simon Brown, Ambulance Tas
- Therese Hudson, Jacque McElwee, Mandy Burley, Elysia Eberhardt, Luke Dare, Cath Lab, RHH
- Marielle Ruigrok, NWRH
- Mel Rose, RHH ED
- James Gray & Giorgia Hill, UTAS

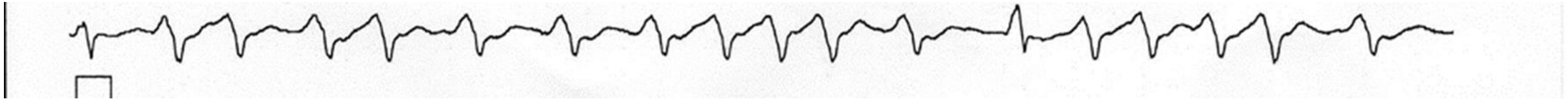


Dr Jonathan Lipton

MD, PhD, FRACP | Staff Cardiologist | Director Arrhythmia Service | Royal Hobart Hospital

Electrophysiology Service (EPS)

Provision of care for Tasmania patients with arrhythmia.



Community Cardiac Network meeting 3 Nov 2020

Jonathan Lipton, Cardiologist & Electrophysiologist
Director Arrhythmia Service Royal Hobart Hospital

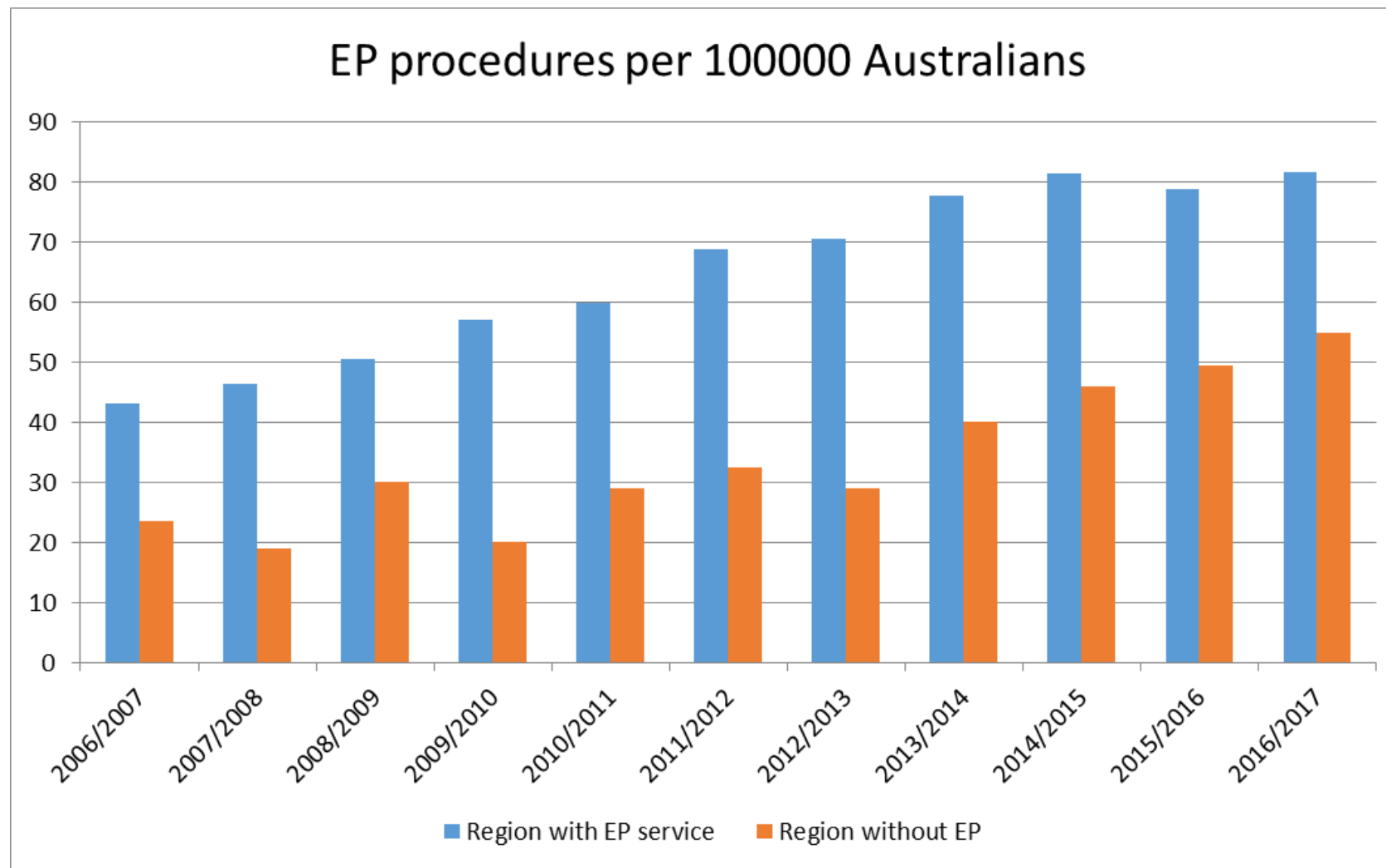


Overview

- Prevalence and health care implications of arrhythmia in Tasmania
- Invasive diagnostic and treatment options for arrhythmia
- Local service provision and referral for patients with arrhythmia

Overview

- **Prevalence and health care implications of arrhythmia in Tasmania**
- Invasive diagnostic and treatment options for arrhythmia
- Local service provision and referral for patients with arrhythmia

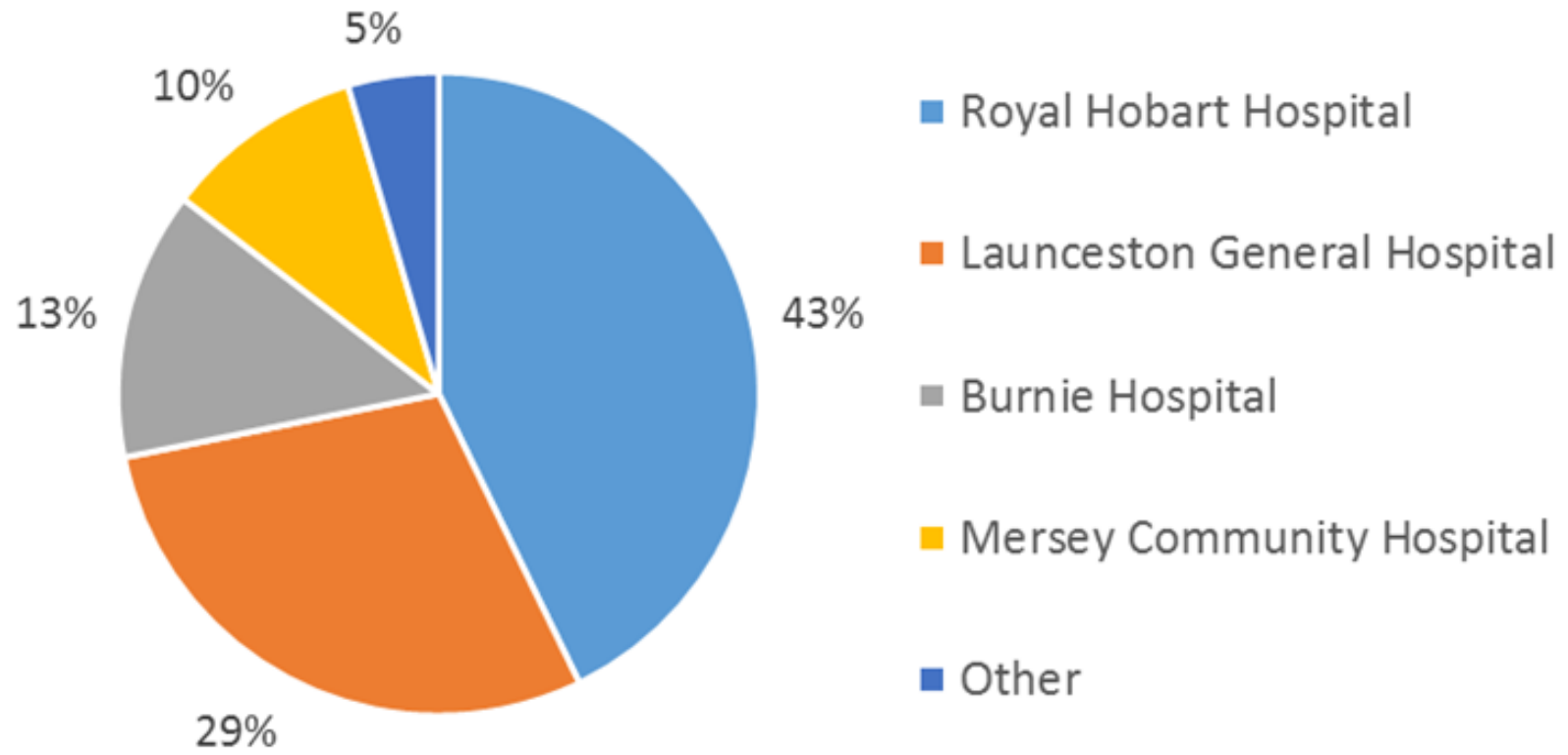


- Number of procedures per population is lower in areas without an EP service. (NT and TAS)

Arrhythmias in Tasmania

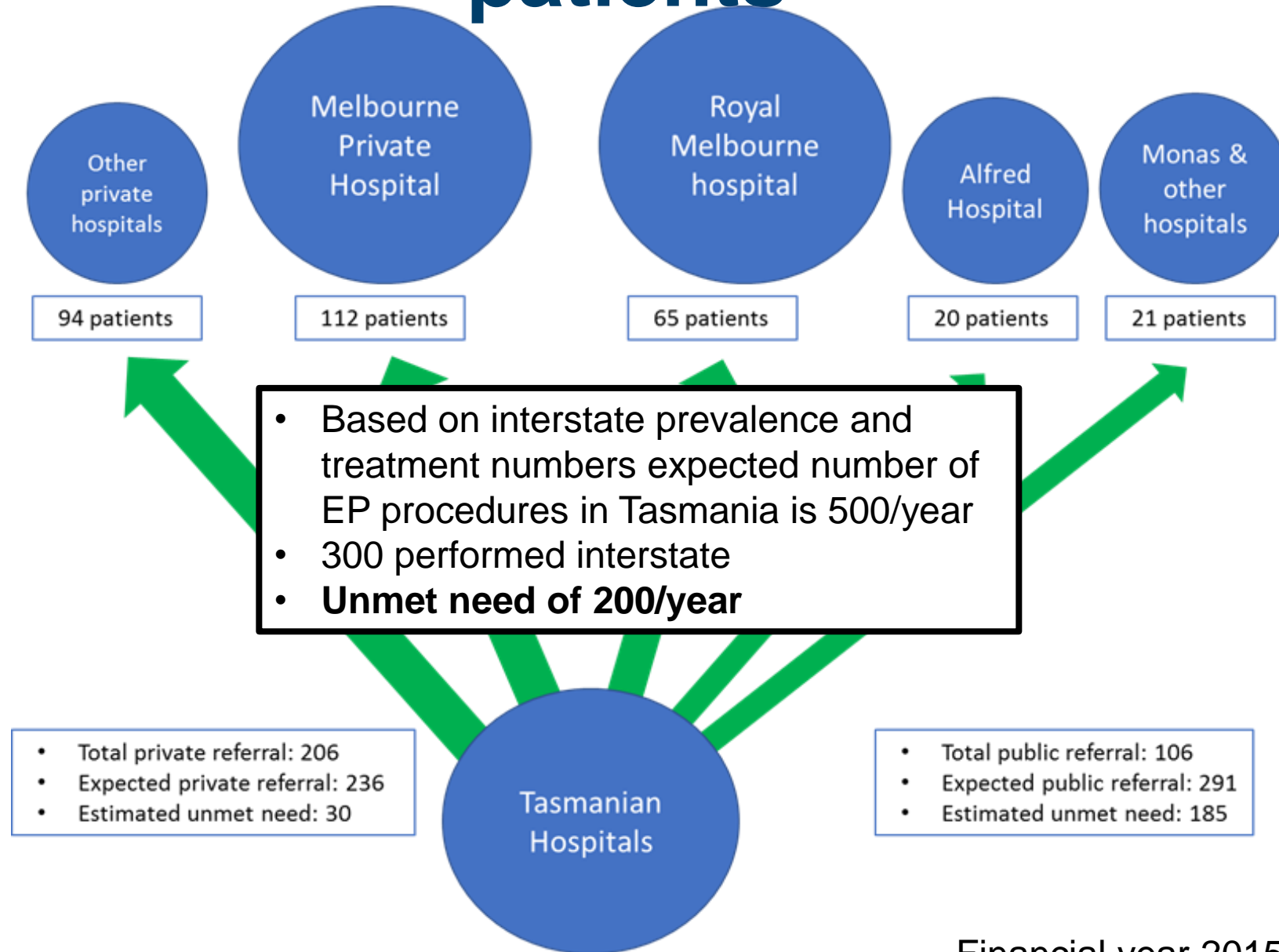
- Increase of 30% over past decade to over 4000 admissions/year in Tasmania.
- Almost 50% are readmissions.
- Estimated of cost per admission is \$10.000-\$15.000.
- EP services required interstate referral.
- Waiting time for EP procedure interstate have been 3-18 months.

Arrhythmia admissions by hospital



2017 data, provided by DHHS

EP procedures for Tasmanian patients



Financial year 2015-2016

Overview

- Prevalence and health care implications of arrhythmia in Tasmania
- **Invasive diagnostic and treatment options for arrhythmia**
- Local service provision and referral for patients with arrhythmia

Establishment of EP Tasmania



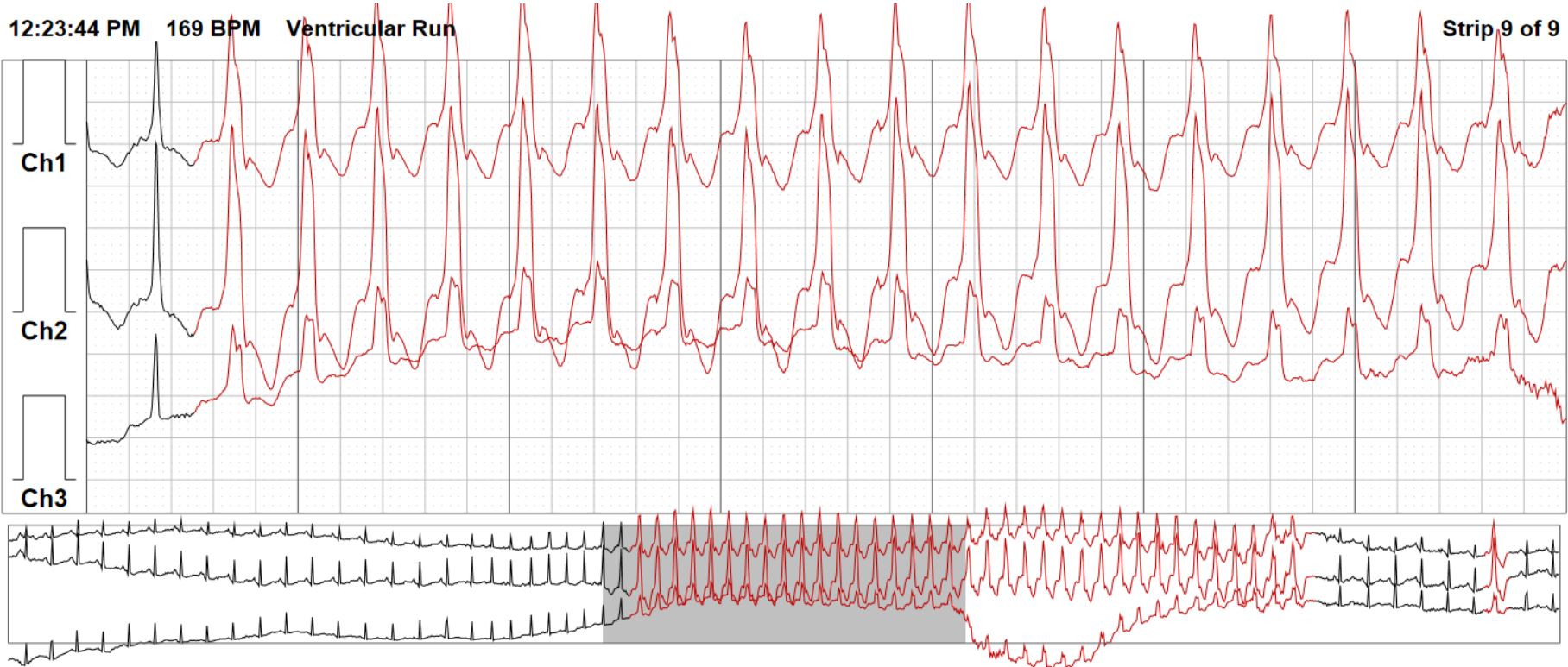
- Jun 2016 Development of business case
- Nov 2017 Accepted by government
- Mar 2018 Arrhythmia clinic established
- Apr 2018 Electrophysiologist and cardiac physiologist appointed
- Jul 2018 First cardiac ablation
- May 2019 First zero-fluoro procedure
- Jul 2019 First left-sided ablation
- Jul 2020 New cath lab, hard-wired EP system
- Aug 2020 250 procedures performed
Intracardiac echo available



68 year old female

- Presentation with lightheadedness and rapid palpitations
- On Holter multiple non-sustained wide complex tachycardia
- Echo LVEF 46%
- Normal coronaries on angiogram
- No scar on cardiac MRI

Holter: 4% ventricular ectopy and



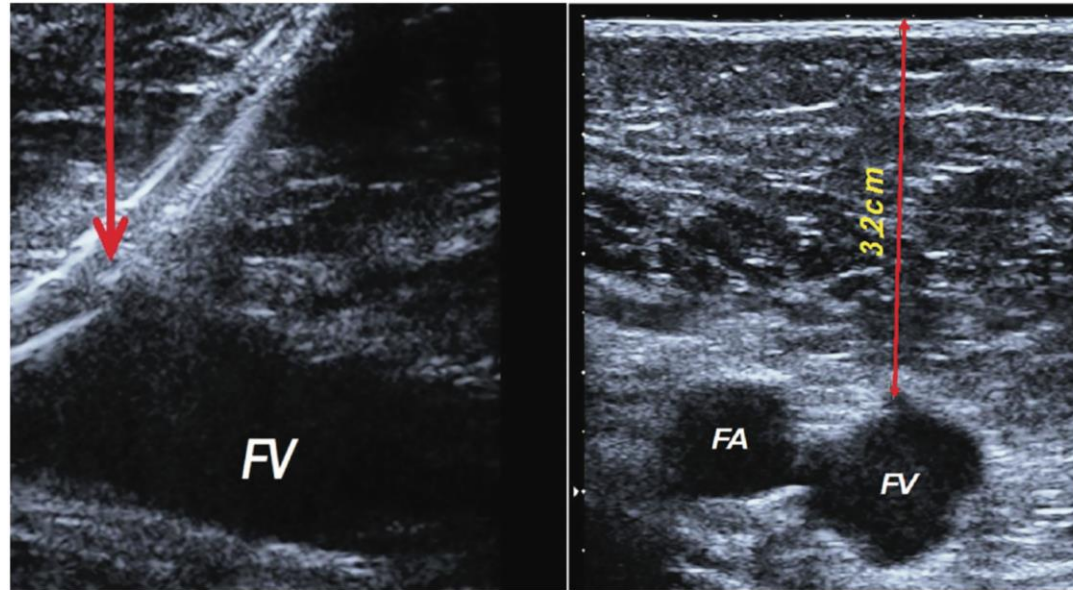
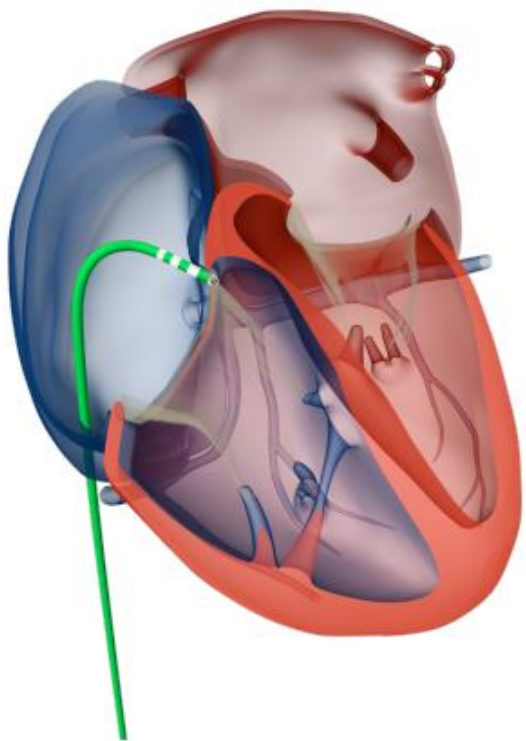
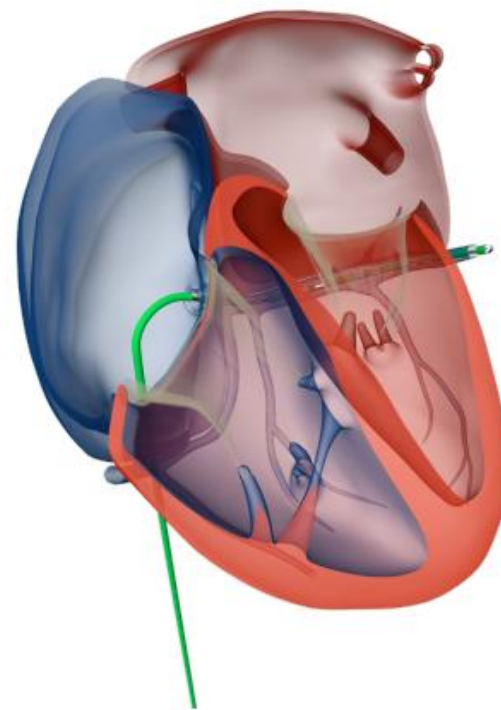


Figure 2. Short- and long-axis views: femoral vein.

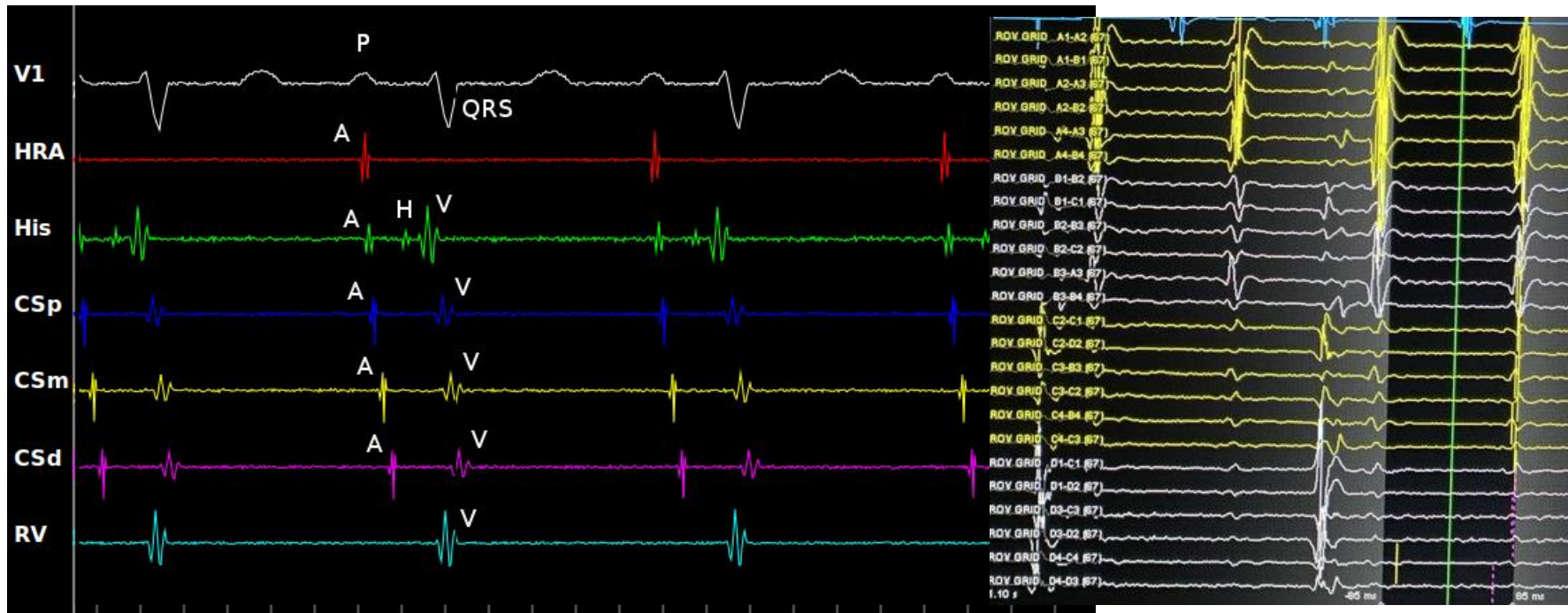
- Right femoral venous puncture
- 3 sheaths
 - 6,7,8 French
- 2 diagnostic EP catheters
- Ablation catheter

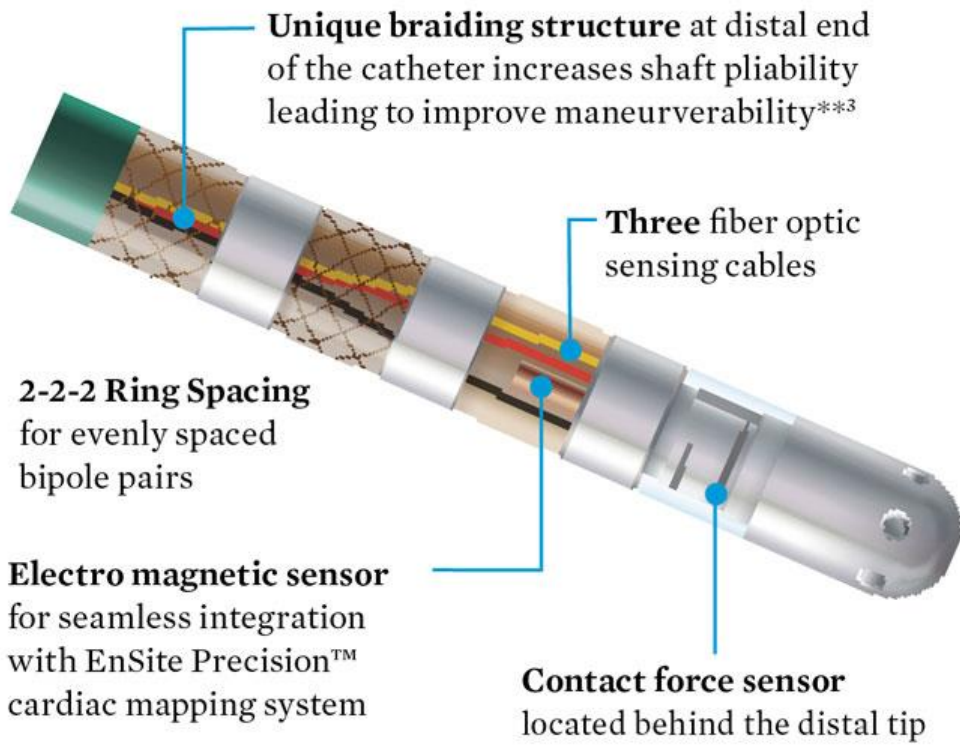


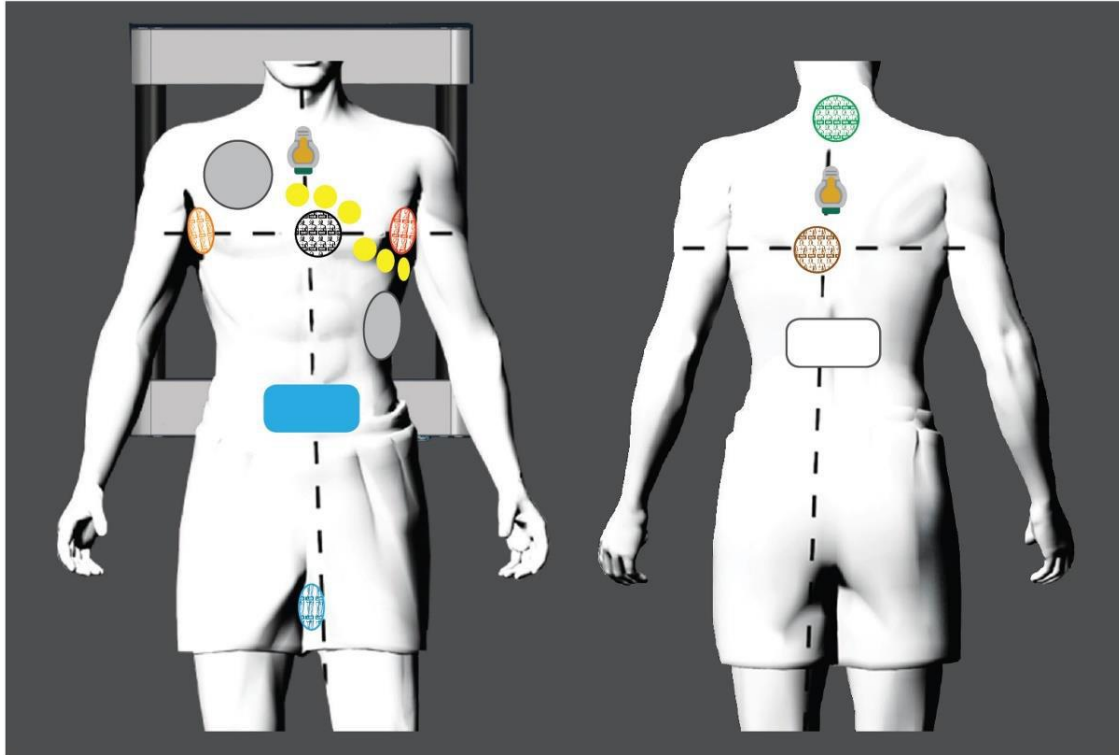
Positioned over the
His bundle




Positioned in the
Coronary Sinus








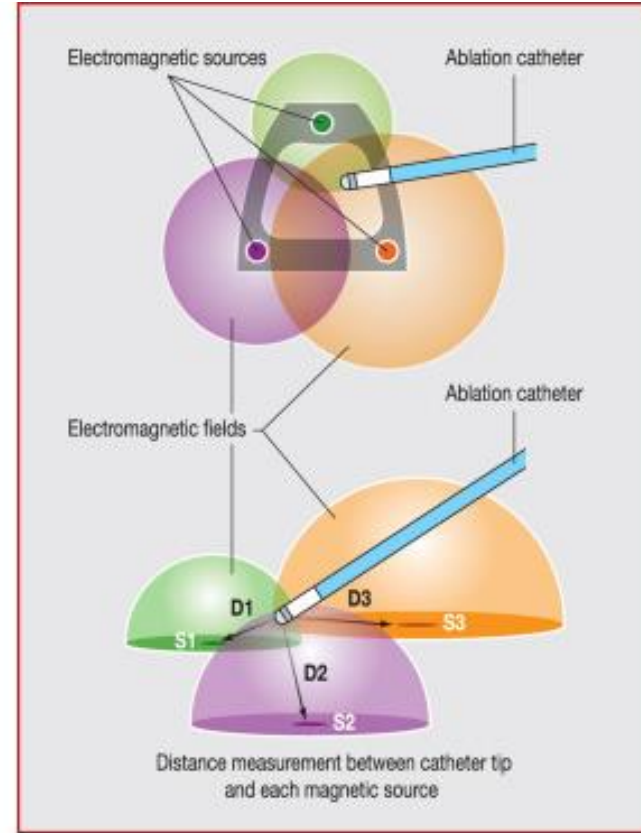
 System reference electrode

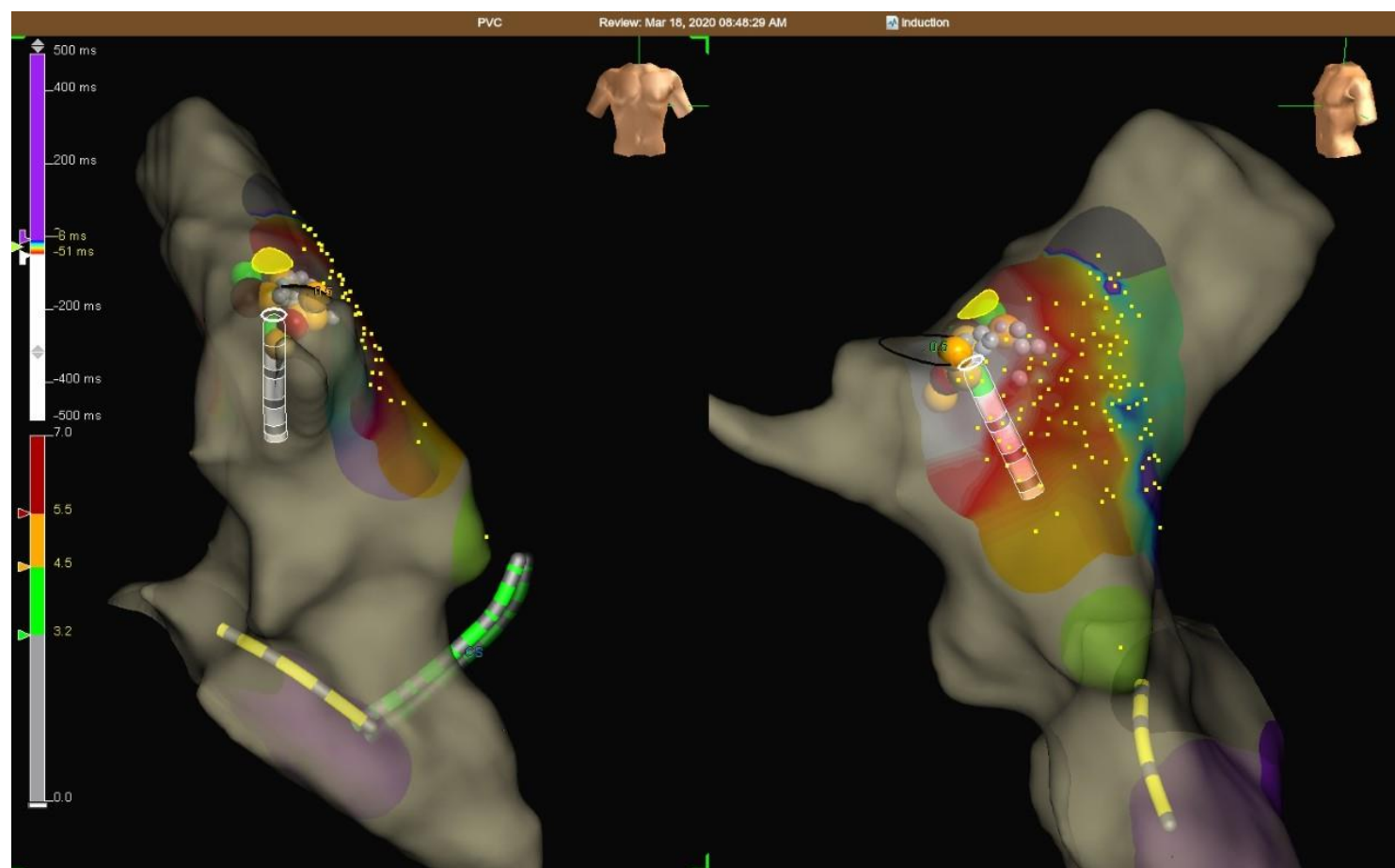
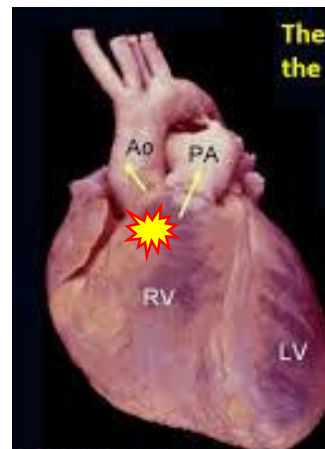
 Defibrillator patch

 RF dispersive patch

 EnSite Precision™ surface electrode

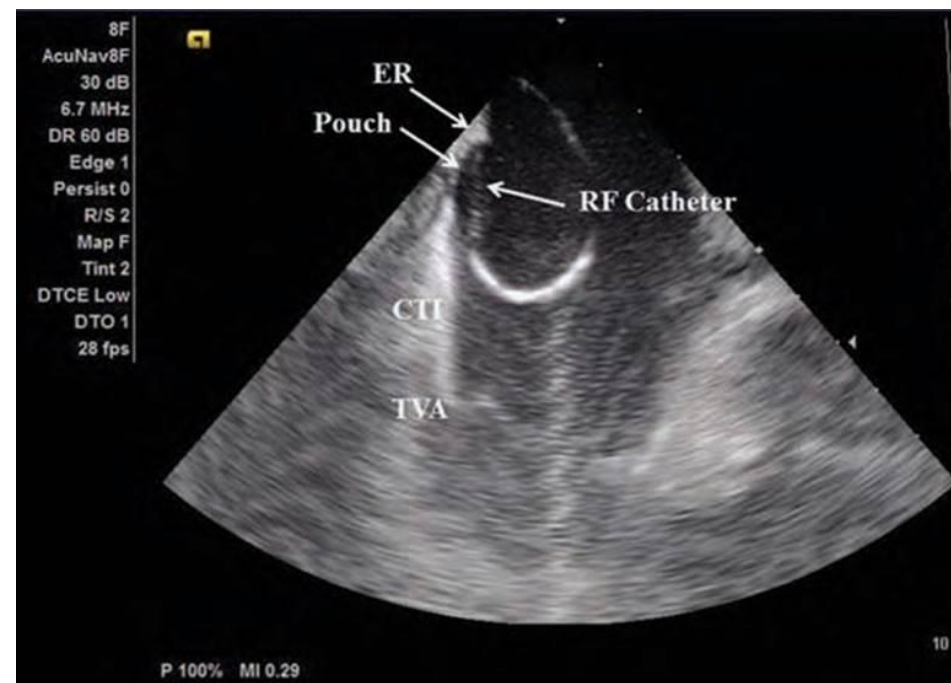
 Patient reference sensor





Intracardiac echo (ICE)

- Visualisation for transseptal puncture without need for TOE
- Visualisation of catheter position in relation to cardiac structures



Procedures performed

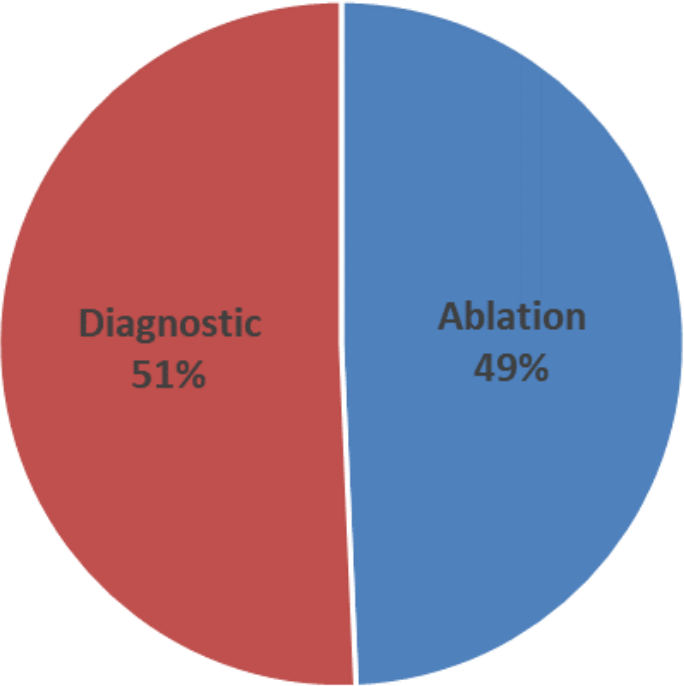
Year	Procedures	Patients
2018	21	18
2019	154	89
2020	51	40
Total	226	147

(June)

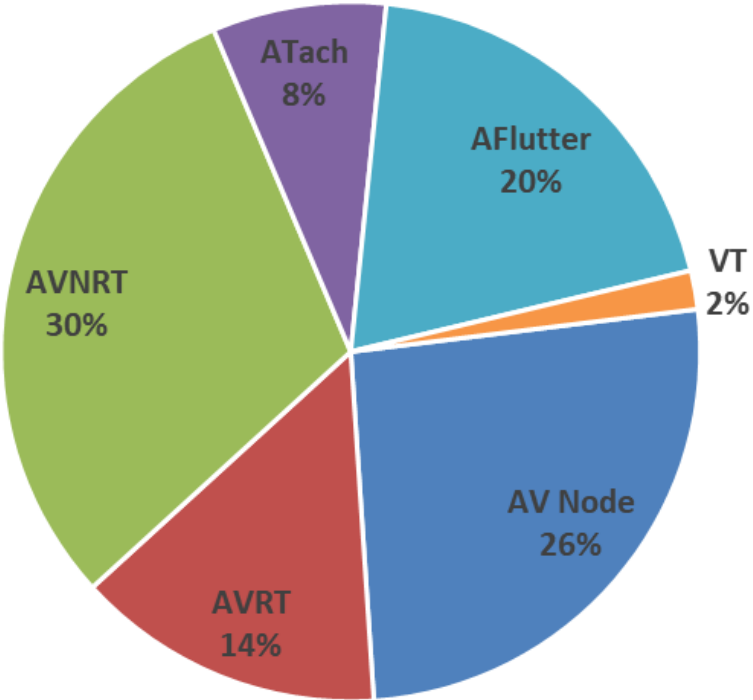
*Aug 2020 250th procedure performed

Procedures

Type



Ablation



Outcomes

- Ablation success
 - 102/109 (94%)
 - May be lower as 100% follow-up not verified. Patients now all scheduled for 1-month FU at rhythm clinic (from North TAS now by phone)
- Procedural complications
 - 2 Vascular
 - 1 other (non-specific transient visual disturbance)
 - 4 readmissions (2 with symptoms, 2 not related to procedure)
 - Total 7 (3%, <1% serious complications)

Safety & quality

- Ultrasound guided venous punctures
- Figure of 8 stitch and 3-way tap for vascular closure
- Transoesophageal echo/ICE guided puncture of intra-atrial septum for left sided procedures
- Overnight stay for all patients undergoing ablation
- Minimal use of fluoroscopy; zero fluoro standard
 - Fluoroscopy used for transseptal puncture and in patients with pacing leads
- Shared care model with Royal Melbourne Hospital
 - Case discussions, shared care protocols, participation in meetings (Zoom) and research, complex patient referral and operator exchanges

Overview

- Prevalence and health care implications of arrhythmia in Tasmania
-
- **Local service provision and referral for patients with arrhythmia**

Referral and patient flow

- Referral Rhythm Clinic (electronic preferred)
 - Prior history (cardiac and non-cardiac)
 - Medications
 - Symptoms
 - Documented arrhythmia / ECG if available; tracings (including holters/rhythm strips etc)
 - If applicable: details of previous cardiac procedures/tests (reports if available)
- Initial consult
 - Phone/telehealth as default
- Workup
 - ECG / Holter
 - Echo
- Pre-assessment (if procedure indicated)
 - Information, bloods, ECG, review and stop of medication, consent and planning of procedure (2 weeks-1 day prior to procedure)
- Admission morning of procedure
- Procedure at RHH cathlab
 - Duration 0.5-3 hours (median 1 hour)
- Overnight stay if ablation performed
- No heavy lifting/exercise for 1 week
 - To prevent groin complications
- Follow-up 1-2 months at Rhythm clinic (phone/telehealth preferred)

Provision of care (current)

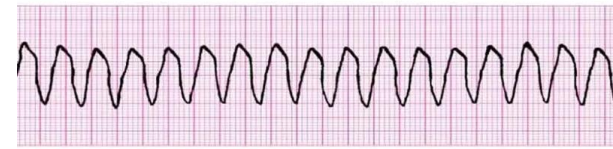


- Diagnostic EP study
- AV node ablation
- Supraventricular tachycardia ablation
 - AVNRT, AVRT/WPW, most atrial tachycardia
- Typical atrial flutter ablation
- Ablation for atrial fibrillation
- Atypical flutter ablation
- VT ablation in presence of scar
- Patients with congenital heart disease

Wait 2-6 weeks (non-GA); 3-4 months (GA)

Wait 2-4 months (non-GA); 9-18 months (GA)

Provision of care (current)



Impact of COVID on EP service

- 300 interstate referrals/year, approx. 200/year for atrial fibrillation ablation
- Interstate waiting times increased by at least 6 months (prior to COVID approx. 12 months)
- Interstate referral challenging for patient and state resources given need for quarantine (until at least Dec 2020)
- Increasing clinical need to move forward ability to perform AF ablation within the state
 - 40 patients on 'local' waiting list, approx. 5 added/week
 - Collaborative model with Royal Melbourne Hospital

Provision of care by end of 2020



- Diagnostic EP study
- AV node ablation
- Supraventricular tachycardia ablation
 - AVNRT, AVRT/WPW, atrial tachycardia
- Typical atrial flutter ablation
- Ablation for Atrial fibrillation
- VT ablation in presence of scar
- Patients with congenital heart disease

Provision of care by end of 2020

Case-by-case decision:

- Redo procedures for supraventricular tachycardia
- Redo procedures for atrial fibrillation
- Atypical atrial flutter
- Ventricular ectopy/tachycardia in structurally





Possible thanks to:

- Cath Lab Nursing Staff
 - Therese Hudson
 - Mandy Burley
- Cardiac Liaison Nurses
 - Marea Pickering, Roselyn Giles, Bec Lane
- Cardiac Physiologist
 - Rhonda McNeill, Amelia Lutwyche
- EP mapping specialist
 - Bassem Zeddine
- Cardiology Ward Staff
- Cardiology/Cardiothoracics Team
 - Paul MacIntyre
- Royal Melbourne Hospital
 - Jon Kalman, Leeanne Grigg, Joe Morton

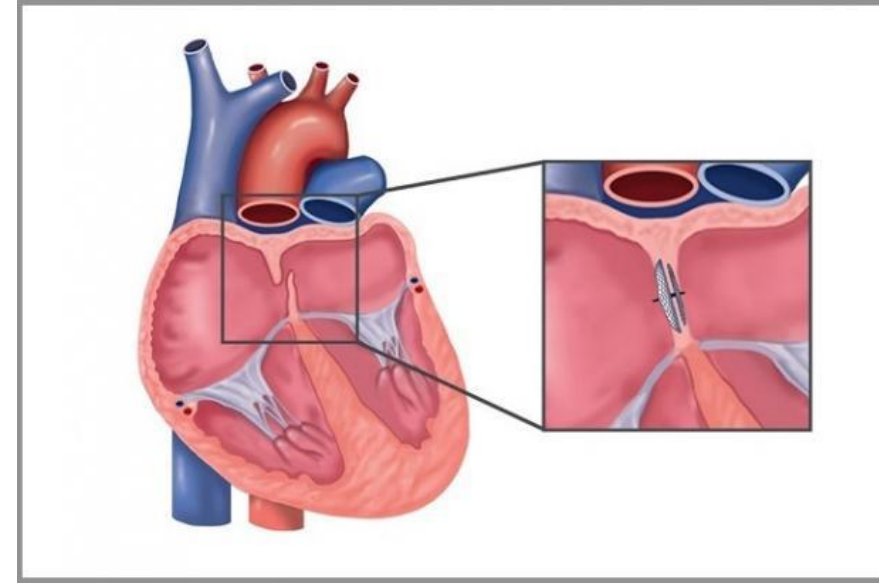
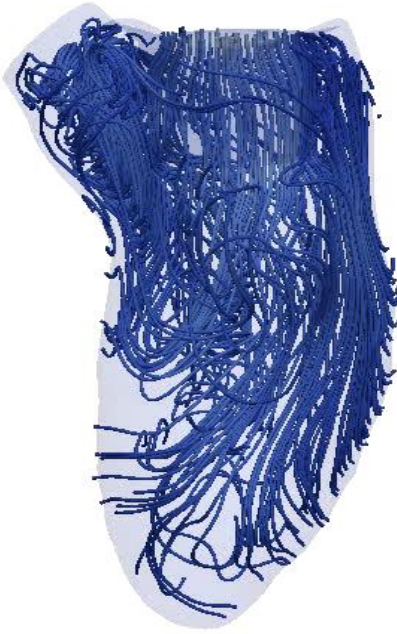


Jonathan Lipton
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u

Dr Heath Adams

BMedSci, MBBS (Hons), DipUKMP, FRACP, FCSANZ | Interventional & Structural Cardiologist | Clinical Lead for the Cardiac Catheter Laboratory & TAVI | Royal Hobart Hospital

The THS TAVI Service



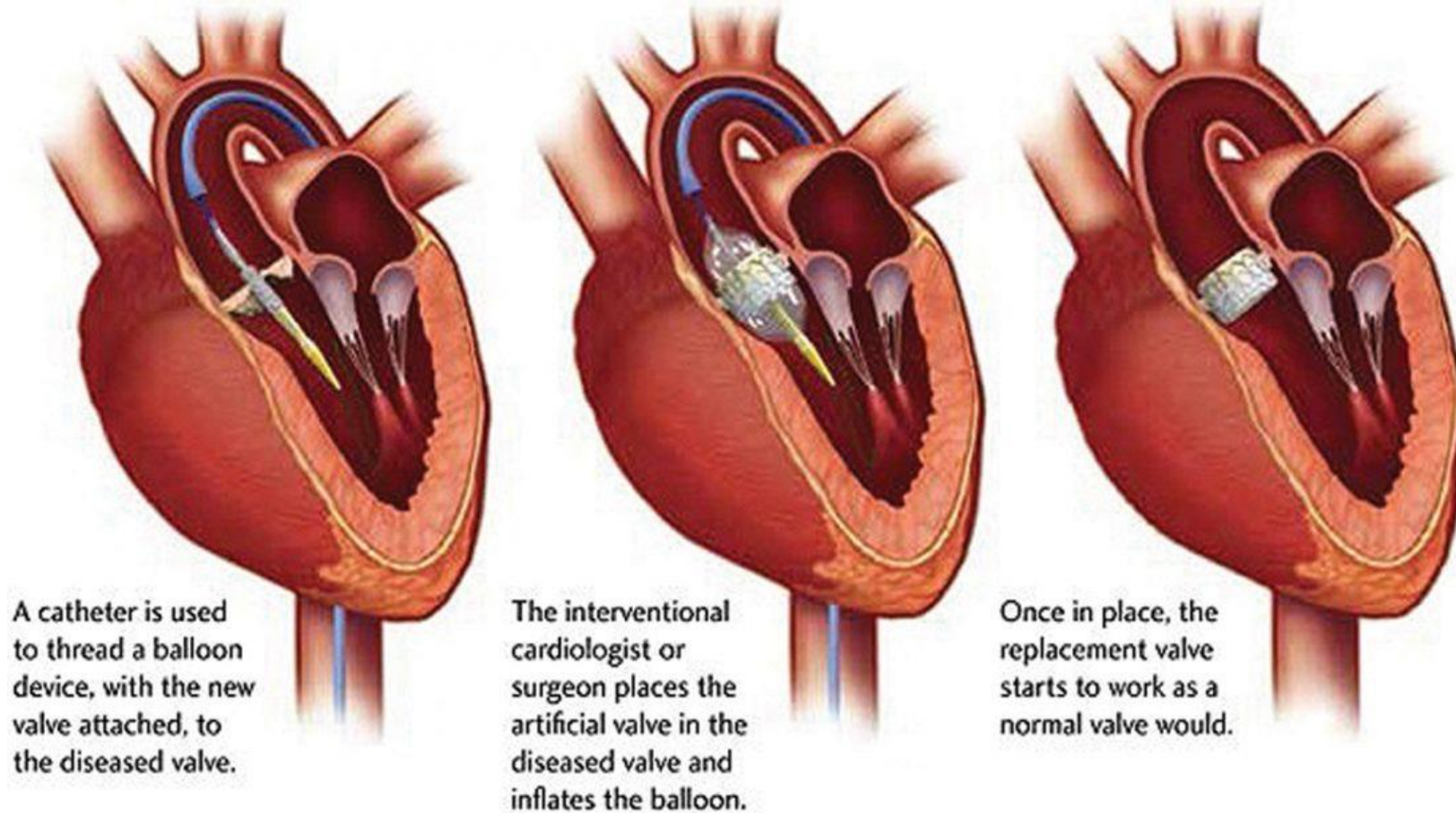
TAVI for Severe Aortic Stenosis PFO Closure for Cryptogenic Stroke

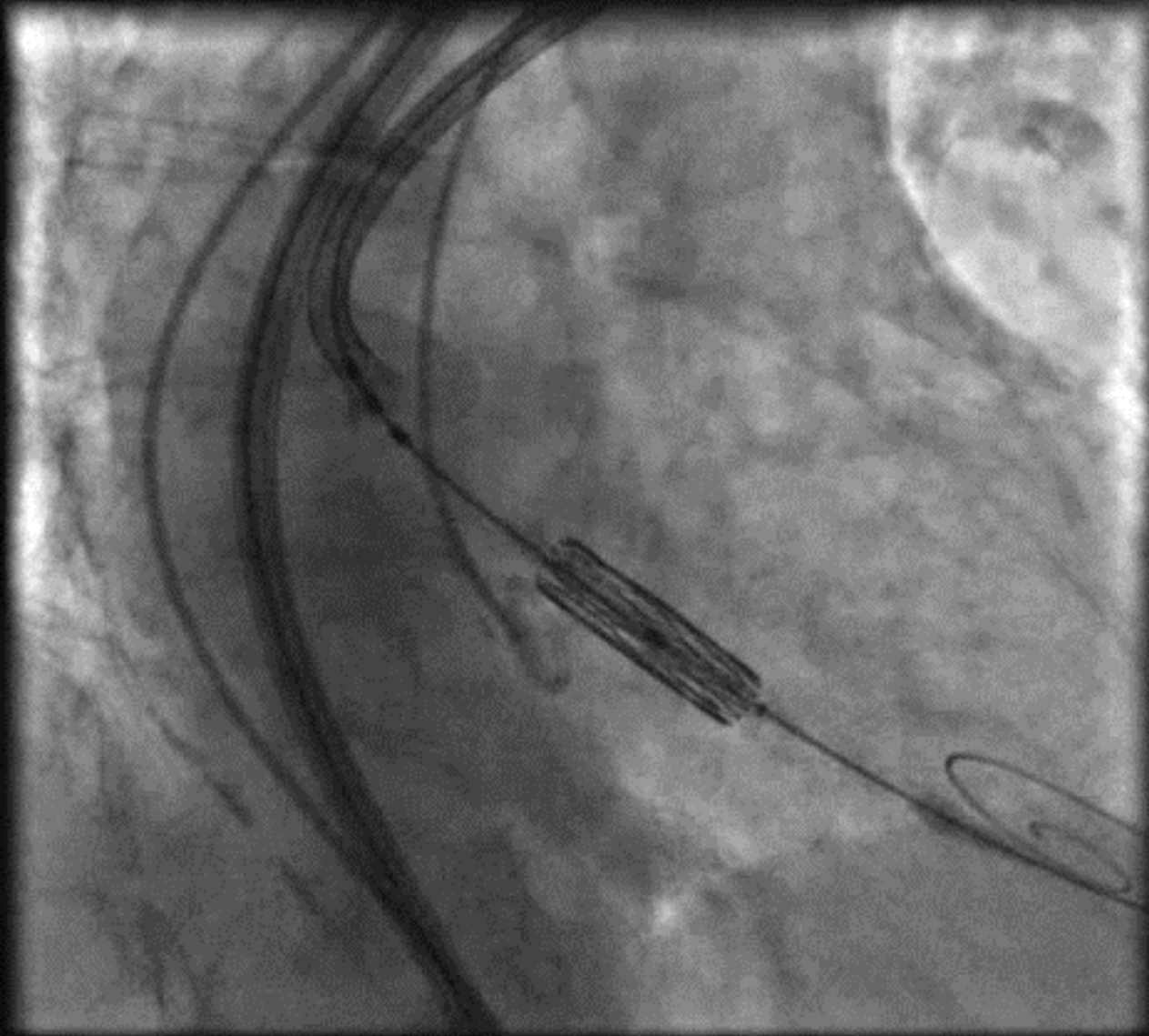


Dr Heath Adams
Interventional & Structural Cardiologist
Royal Hobart Hospital
Dr MG Ciezar Memorial Scholar
University of Tasmania



What is a TAVI?





Severe aortic stenosis survival curve



Dr. Alain Cribier

First-in-Man PIONEER



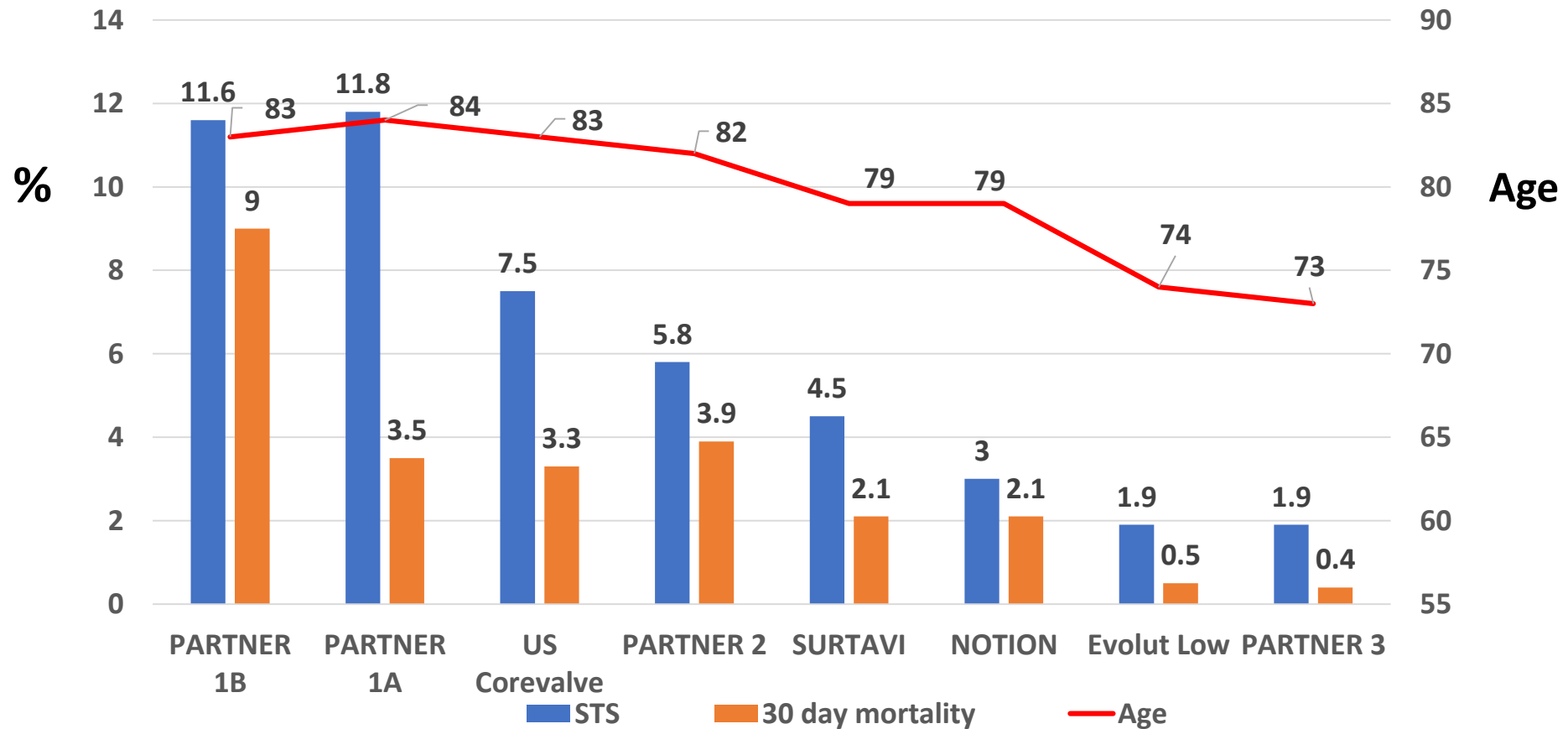
Circulation American Heart Association
JOURNAL OF THE AMERICAN HEART ASSOCIATION 
Learn and Live.

- Percutaneous Transcatheter Implantation of an Aortic Valve Prosthesis for Calcific Aortic Stenosis
- First Human Case Description
- Alain Cribier, MD; Helene Eltchaninoff, MD; Assaf Bash, PhD; Nicolas Borenstein, MD; Christophe Tron, MD; Fabrice Bauer, MD; Genevieve Derumeaux, MD; Frederic Anselme, MD; François Laborde, MD; Martin B. Leon, MD

Conclusions – “Nonsurgical implantation of a prosthetic heart valve can be successfully achieved with immediate and midterm hemodynamic and clinical improvement.”

April 16, 2002

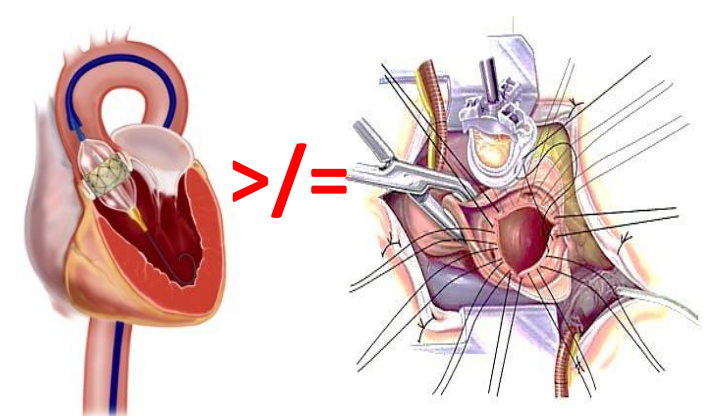
Evolving Risk Profile in TAVI Randomised Trials



CLINICAL EVIDENCE ACROSS RISK CATEGORIES



Low



Drivers of Success

- Multi-disciplinary Heart Team
- Evidence-based medicine
- Rapid improvements in device design
- Simplification of the procedure
- Reduction in complications

The Low-Risk TAVI Trials for Severe Aortic Stenosis: Future Implications for Australian and New Zealand Heart Teams

Heath Adams, MBBS, FRACP^{a,b,c,*},
 Ross Roberts-Thomson, MBBS, FRACP^{a,d},
 Tiffany Patterson, MBBS, PhD, MRCP^{a,e},
 Bernard Prendergast, DM, FRCP, FESC^a,
 Simon Redwood, MD, FRCP, FACC^{a,e}

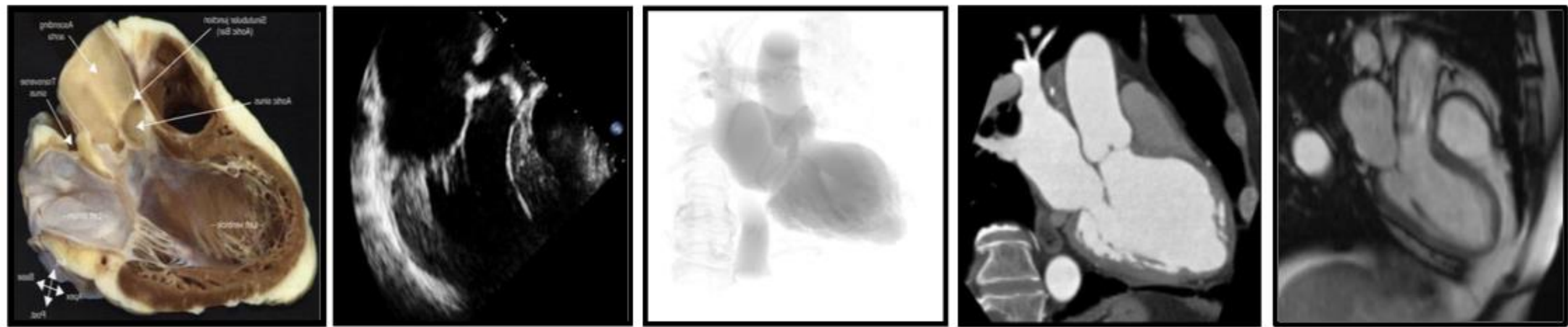
Table 1 Evidence TAVI from Major RCT's & Mortality Outcomes.

Name Publication Year	Number of patients	Comparison group	Surgical risk average (STS %)	Primary outcome	Mortality outcome TAVI at specified timepoint (%)	Mortality comparison group (%)	Mortality p-value 95% CI and/or HR	TAVI approach
PARTNER 1B trial 2010 [1]	358	Medical Management	11.6	All-cause mortality at 1 year	30.7	50.7	HR 0.55 (95% CI 0.40-0.74), p<0.001	TF
PARTNER 1A trial 2011 [2]	699	SAVR	11.7	All-cause mortality at 1 year	24.2	26.8	p=0.44	TF and TA
PARTNER 2 2016 [3]	2,032	SAVR	5.8	All-cause mortality + disabling stroke at 2 years	16.7	18.0	p=0.45	TF and TA
SURTAVI 2017 [4]	1,746	SAVR	4.5	All-cause mortality + disabling stroke at 2 years	11.4	11.6	(95% CI -3.8 to 3.3)	TF, TS and TAo
NOTION 2016 [5]	280	SAVR	3.0	All-cause mortality + disabling stroke at 1 year	4.9	7.5	p=0.38	TF and TS
PARTNER 3 2019 [6]	950	SAVR	1.9	All-cause mortality, disabling stroke or rehospitalisation at 1 year	1.0	2.5	HR 0.41 (95% CI 0.14-1.17)	TF
Evolut Low-risk Trial 2019 [7]	1,403	SAVR	1.9	All-cause mortality + disabling stroke at 2 years	4.5	4.5	(95% CI -3.2-3.2)	TF

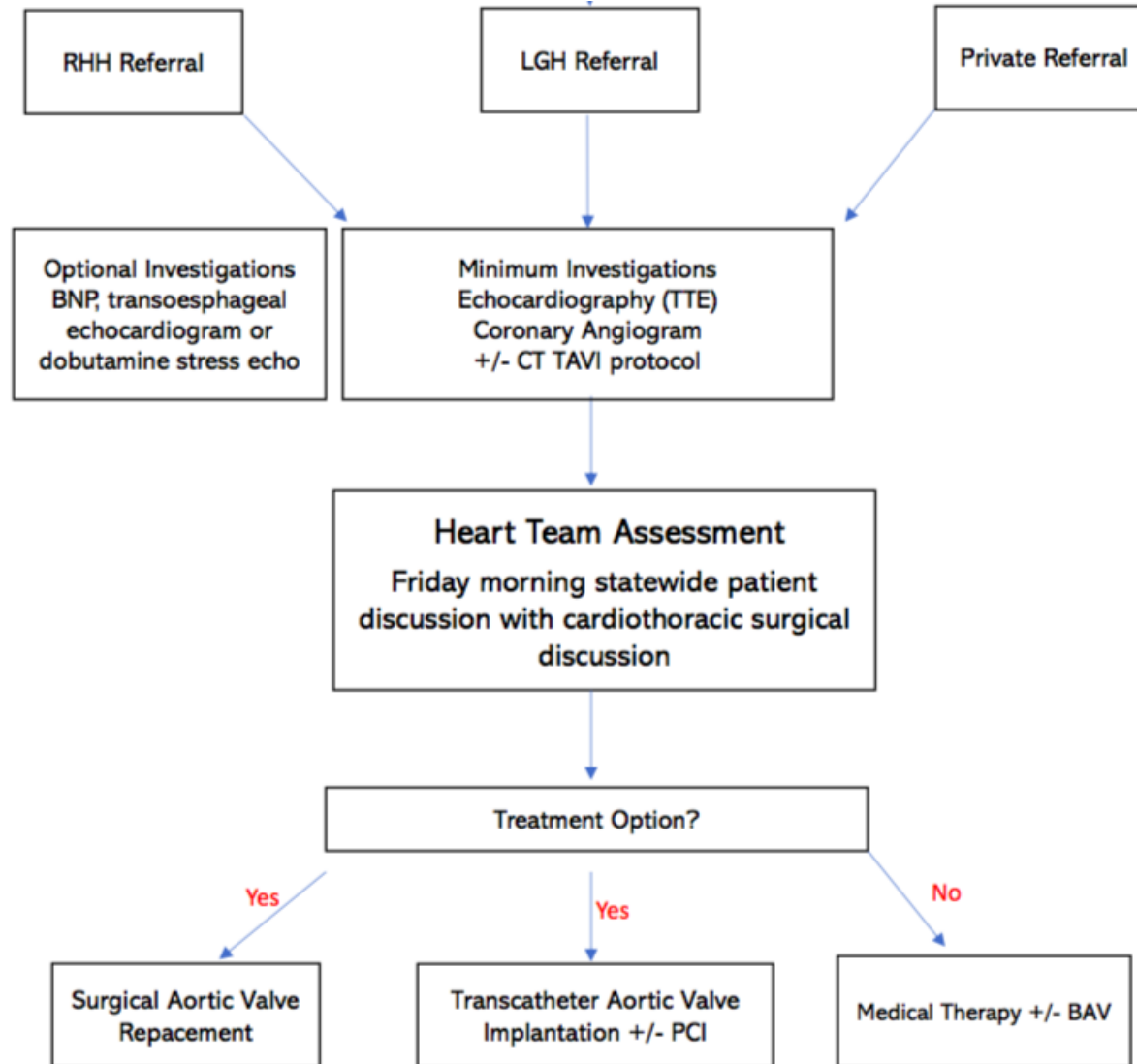
Abbreviations: STS, Society of Thoracic Surgeons; TA, transapical; TAo, transaortic; TF, transfemoral; TS, transsubclavian; SAVR, surgical aortic valve replacement; TAVI, transcatheter aortic valve replacement; HR, heart rate; SURTAVI, Surgical Replacement and Transcatheter Aortic Valve Implantation; NOTION, Nordic Aortic Valve Intervention; PARTNER, Placement of Aortic Transcatheter Valve Trials.

Prior Preparation Prevents Poor TAVI Performance

Multimodality Imaging

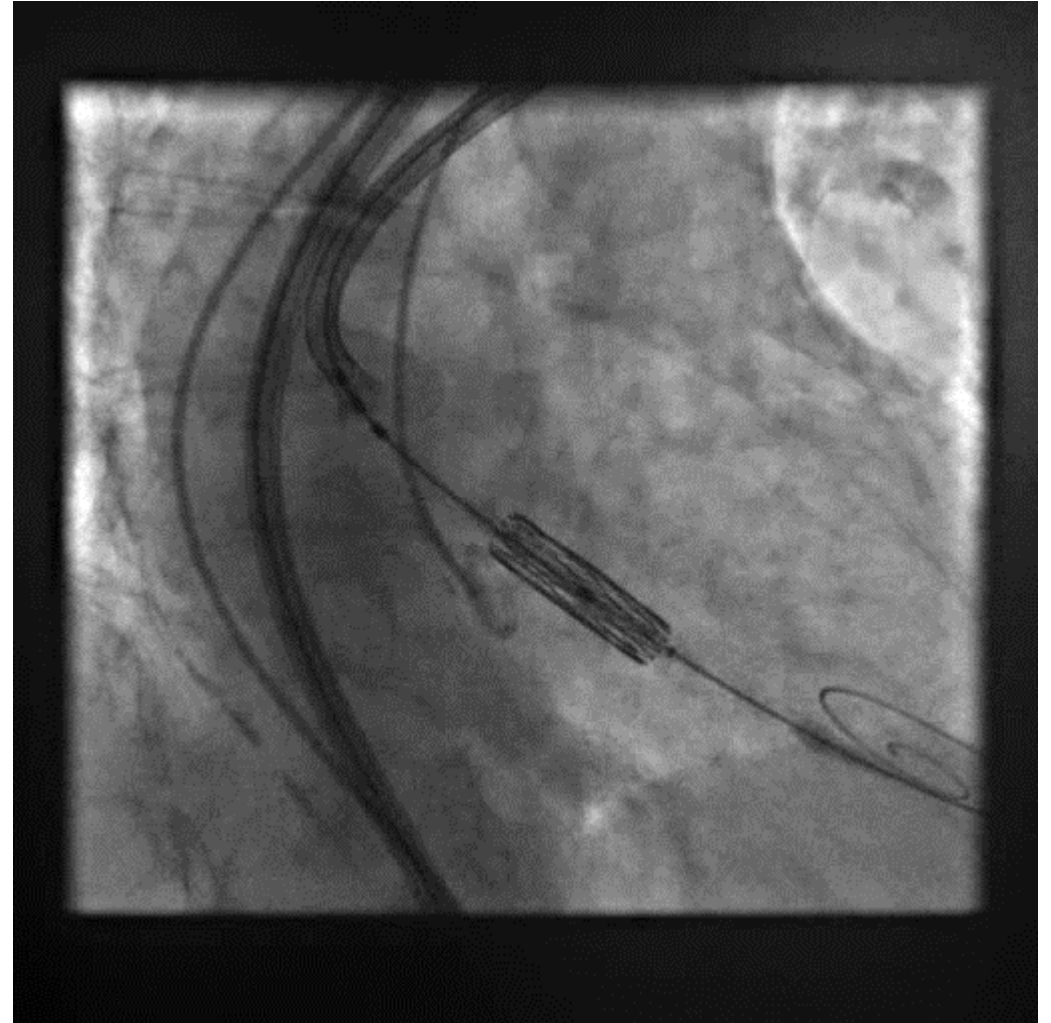


Severe AS Patients



Streamlined TAVI (90% of cases)

- Local anaesthetic and light sedation
- One operator, one fellow, one nurse (6 people in the room)
- Bifemoral arterial access
 - one 6 F for pigtail,
 - one 14-16 F for valve delivery
- No need for balloon valvuloplasty
- Occasional cerebral protection
- One rapid pacing run to deliver valve
- Percutaneous closure
- In hospital 1-2 days post procedure
- Mobilise evening of procedure
- Average case time 30min skin to skin



Intra Procedural Nursing Notes

SEE ANESTHETIC CHART

LEFT
 6F - arterial
 angioseal @ 1123

Angio-Seal™ VIP
 REF 610132
 LOT 06082554

Sedation Score	Tick	Time
0 = none (alert)		
S = Sleeping normally		
1 = Mild (occas. drowsy but easy to rouse)		
2 = Moderate (freq. drowsy but easy to rouse)		
3 = severe (somnolent, difficult to rouse)		

26mm⁽⁺²⁾ valve 1118

RIGHT
 8F - arterial → 14F esheath
 X2 proglide inserted @ 1110 closed @ 1120

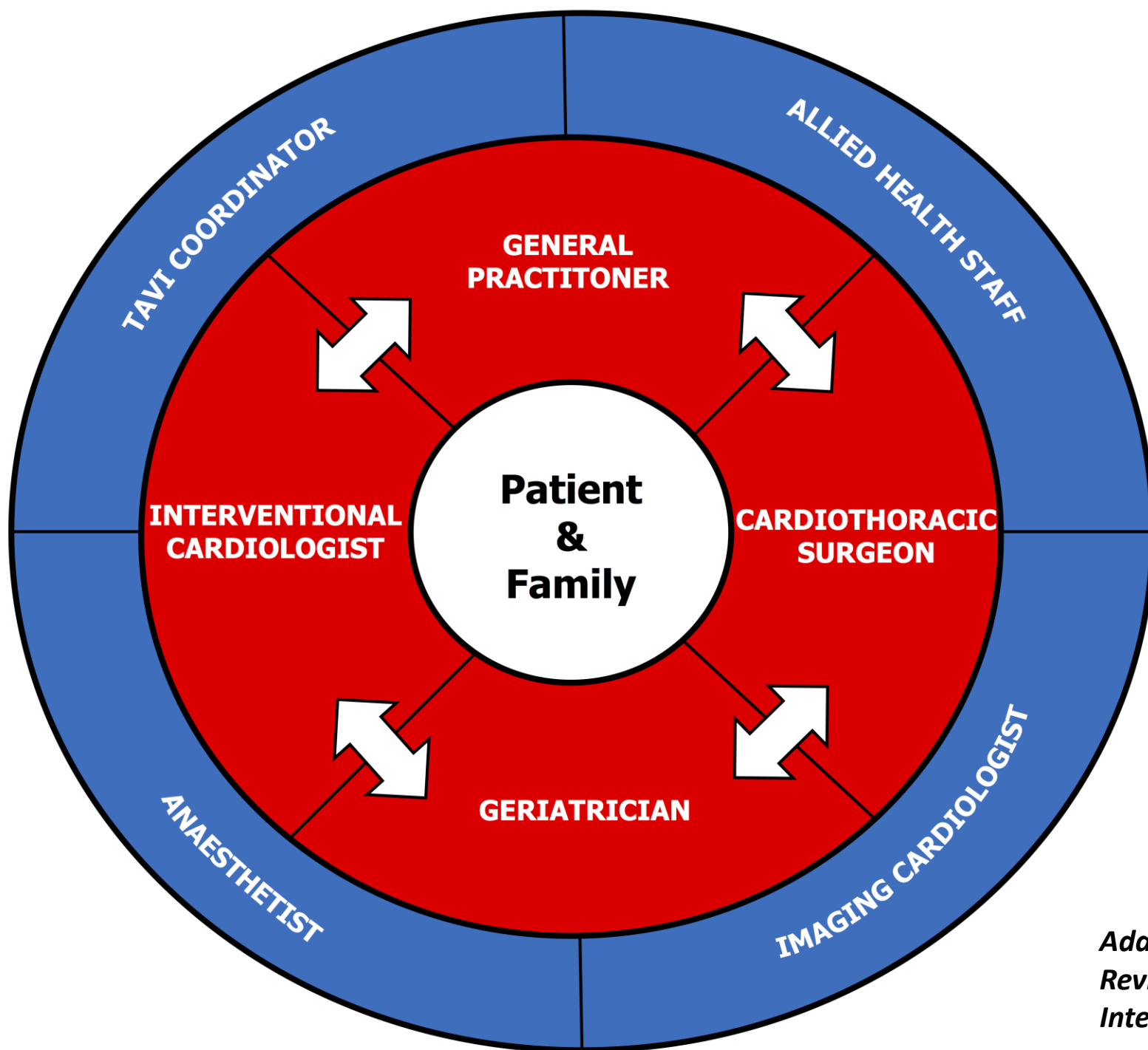
Edwards Lifesciences

REF 9600TFX26
 Edwards SAPIEN 3 Transcatheter Heart Valve
 2019-12-08 SN 5553835 Lot No. S-17M6403
 Implant Date Surgeon Patient

(01)07612989037484
 (17)191208(21)5553635

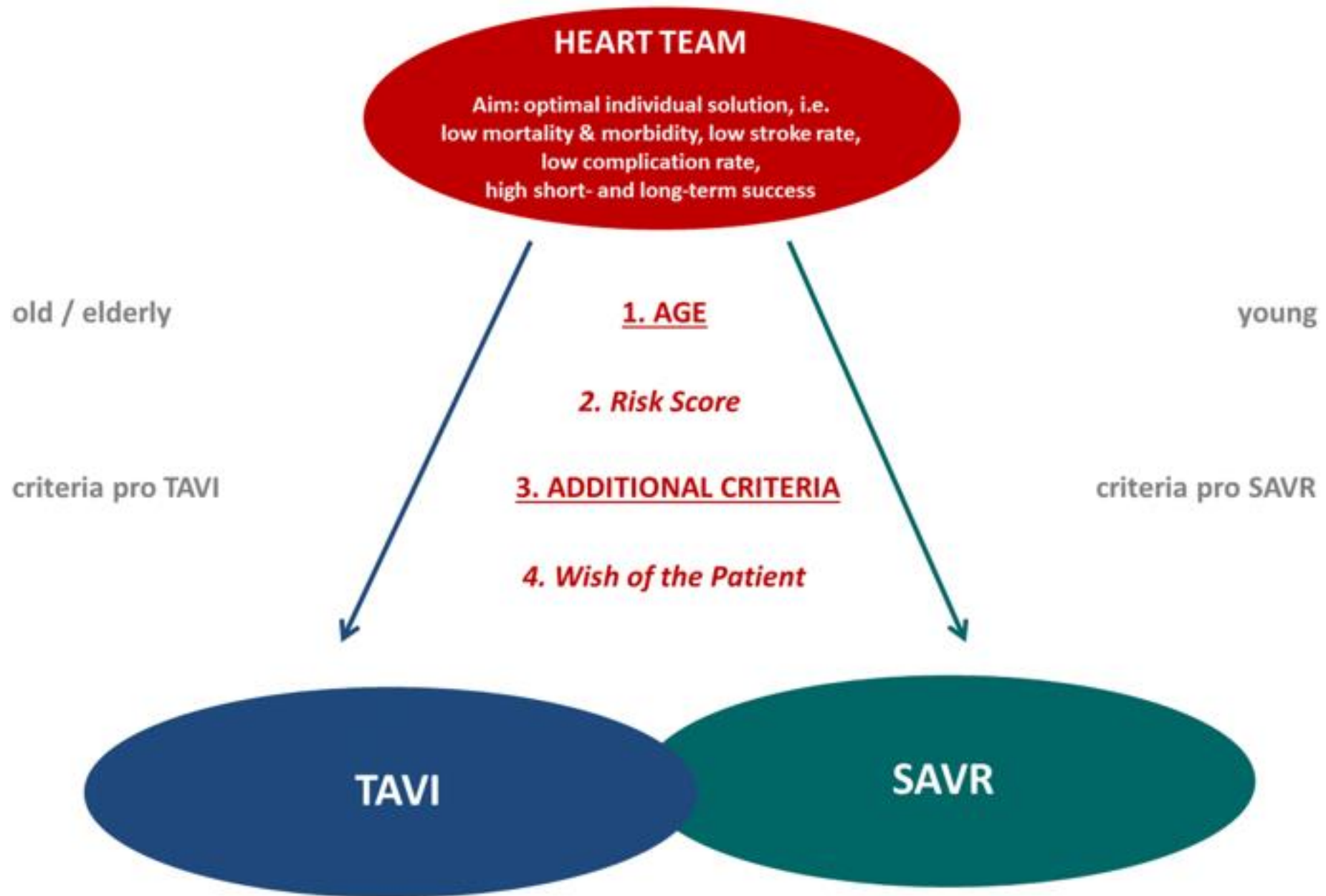
Runner Nurse's Signature: _____
 Time out of Lab: _____

* (R) femoral incision closed with vicryl 2-0 self absorbable suture *



Adams H et al, A Contemporary Review of Severe Aortic Stenosis, Intern Med J, doi: 10.1111/imj.14071

Choice of Treatment in Symptomatic Aortic Stenosis



Frailty

Physician's Guide

- Cognition
- Get up and go
- Gait speed
- Hand grip
- Weight loss
- Window watching
- Family support



Frailty

Comprised of 6 components giving a total score of 7

- Mini-mental State Exam <27 (worth 2 points)
- Unable to perform basic ADLs (worth 1 point)
- Unable to perform instrumental ADLs (worth 1 point)
- Mini nutritional assessment (worth 1 point)
- Timed up and go test (worth 1 point)
- Pre clinical assessment “eye ball” test (worth 1 point)

If a person scores 3 or greater they are considered frail, with validated poorer outcomes with both TAVI or SAVR

Shoenberger et al, European Heart Journal 2013

Clinical Frailty Scale*



1 Very Fit – People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.



2 Well – People who have **no active disease symptoms** but are less fit than category 1. Often, they exercise or are **very active occasionally**, e.g. seasonally.



3 Managing Well – People whose medical problems are **well controlled**, but are **not regularly active** beyond routine walking.



4 Vulnerable – While **not dependent** on others for daily help, often **symptoms limit activities**. A common complaint is being "slowed up", and/or being tired during the day.



5 Mildly Frail – These people often have **more evident slowing**, and need help in **high order IADLs** (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.



6 Moderately Frail – People need help with **all outside activities** and with **keeping house**. Inside, they often have problems with stairs and need **help with bathing** and might need minimal assistance (cuing, standby) with dressing.



7 Severely Frail – **Completely dependent** for personal care, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within ~ 6 months).



8 Very Severely Frail – **Completely dependent**, approaching the end of life. Typically, they could not recover even from a minor illness.



9. Terminally Ill - Approaching the end of life. This category applies to people with a **life expectancy <6 months**, who are not otherwise evidently frail.

Scoring frailty in people with dementia


The degree of frailty corresponds to the degree of dementia. Common **symptoms in mild dementia** include forgetting the details of a recent event, though still remembering the event itself, repeating the same question/story and social withdrawal.

In **moderate dementia**, recent memory is very impaired, even though they seemingly can remember their past life events well. They can do personal care with prompting.

In **severe dementia**, they cannot do personal care without help.

* I. Canadian Study on Health & Aging, Revised 2008.
2.K. Rockwood et al. A global clinical measure of fitness and frailty in elderly people. CMAJ 2005;173:499-505.

Outcomes of incidental findings on multi-detector computed tomography for transcatheter aortic valve implantation assessment: A single-centre study and review of the literature

Francis J Ha,¹  Jodie Li Mei Tham,^{1,2} Sarang Paleri,¹ Christine Wright,¹ Kelvin K Yap,³ Heath SL Adams,^{1,4} Robert J Whitbourn^{1,2} and Sonny C Palmer^{1,2}

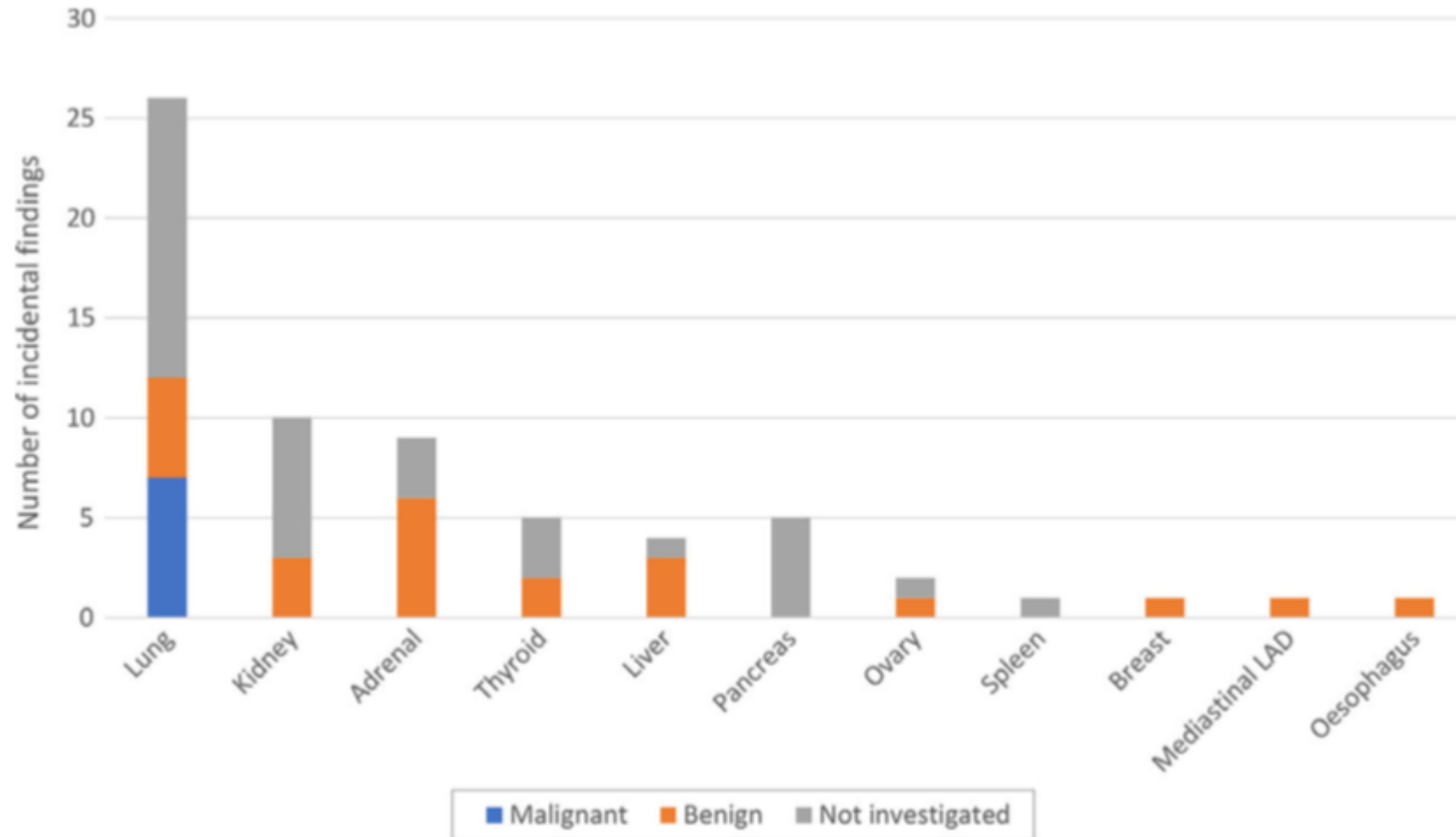



Fig. 1. Outcome of incidental findings of immediate and non-immediate clinical significance.

Outcomes of incidental findings on multi-detector computed tomography for transcatheter aortic valve implantation assessment: A single-centre study and review of the literature

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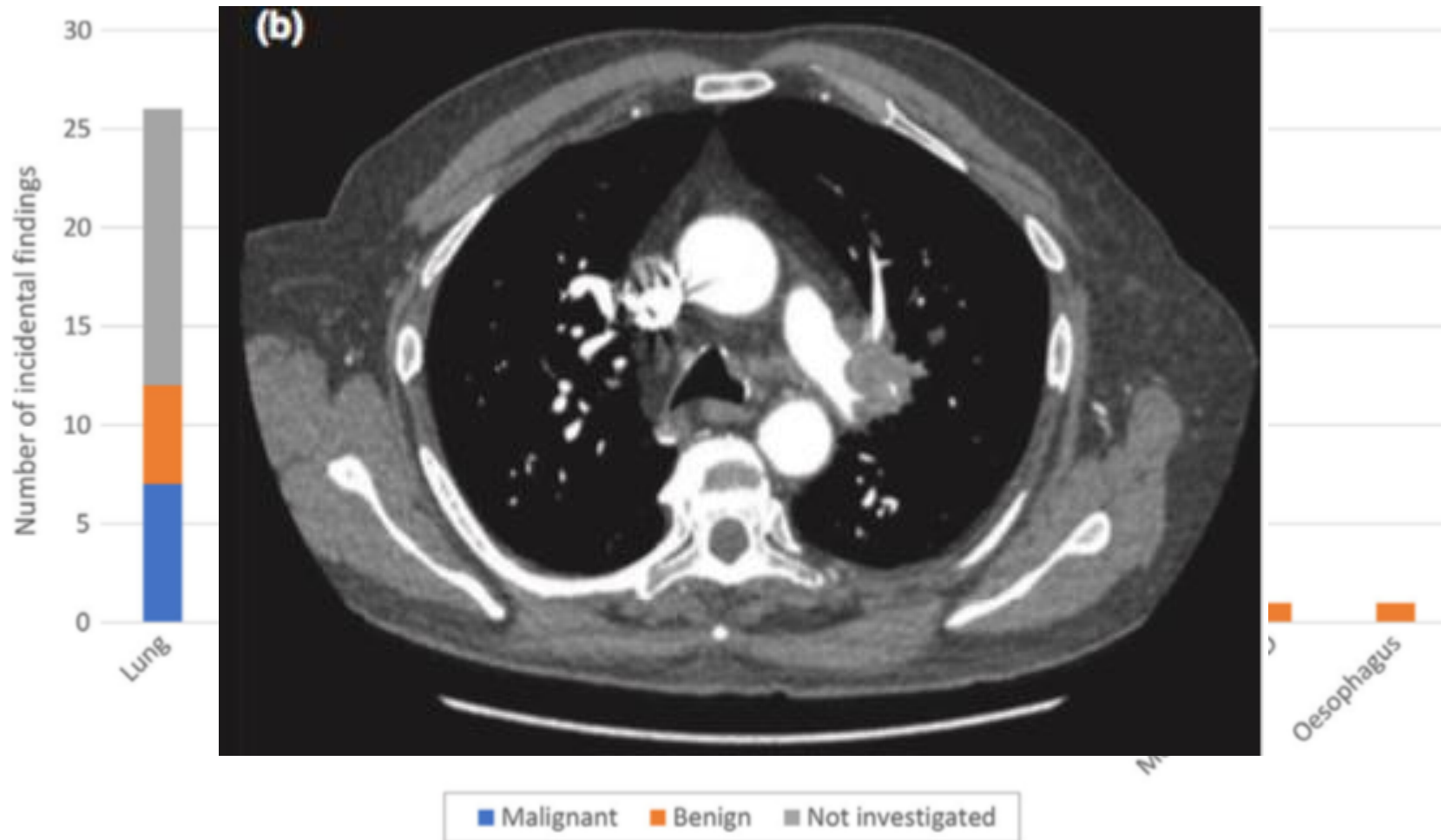


Fig. 1. Outcome of incidental findings of immediate and non-immediate clinical significance.

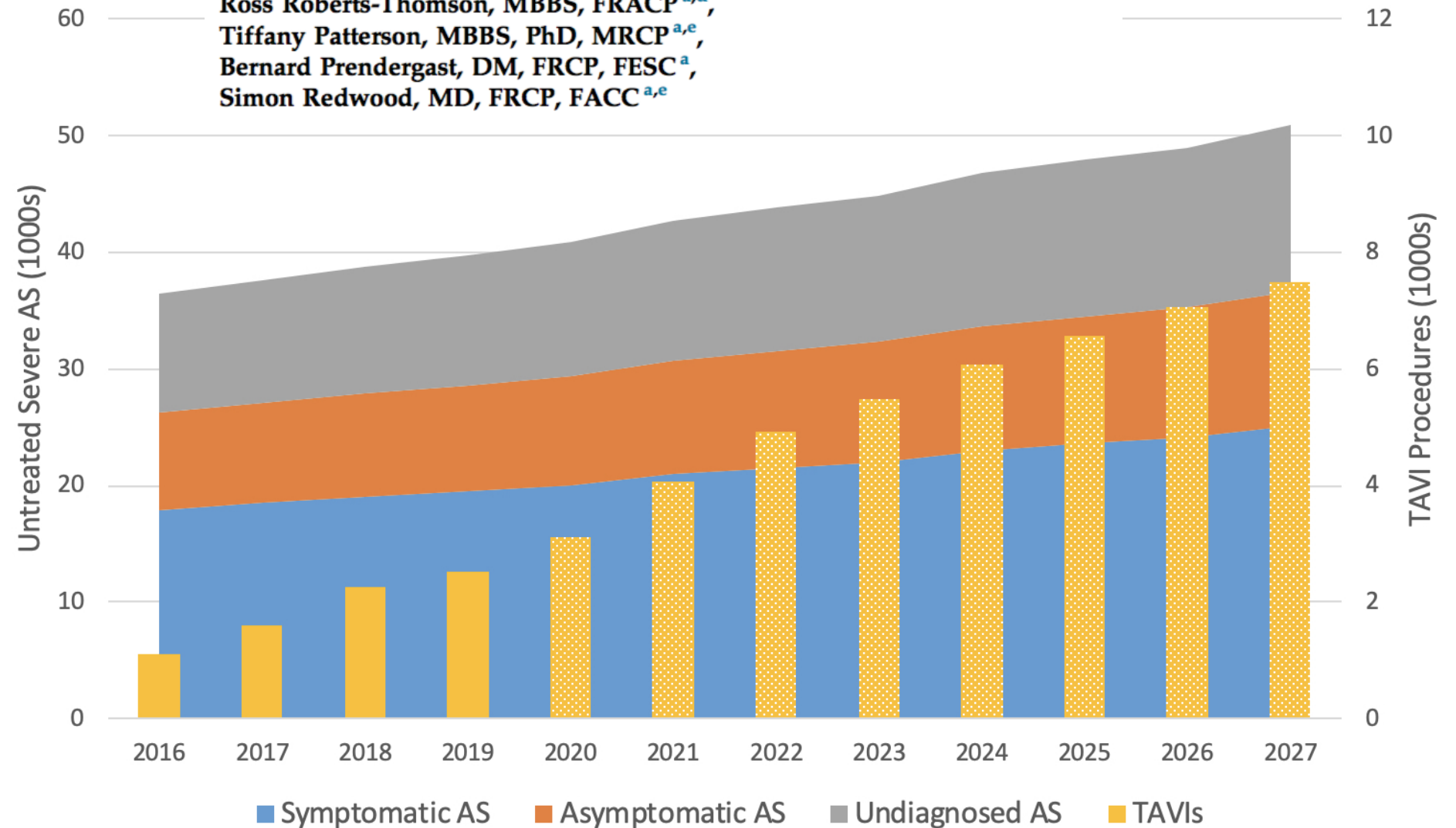


RHH Data

- 20 patients all transfemoral TAVI
- All Tasmanian patients, admitted day of surgery
- Average age 84.5 years
- Length of stay 1.5 days post op
- No vascular complications, no PPM, no deaths
- All alive at follow up with improvement in NYHA class

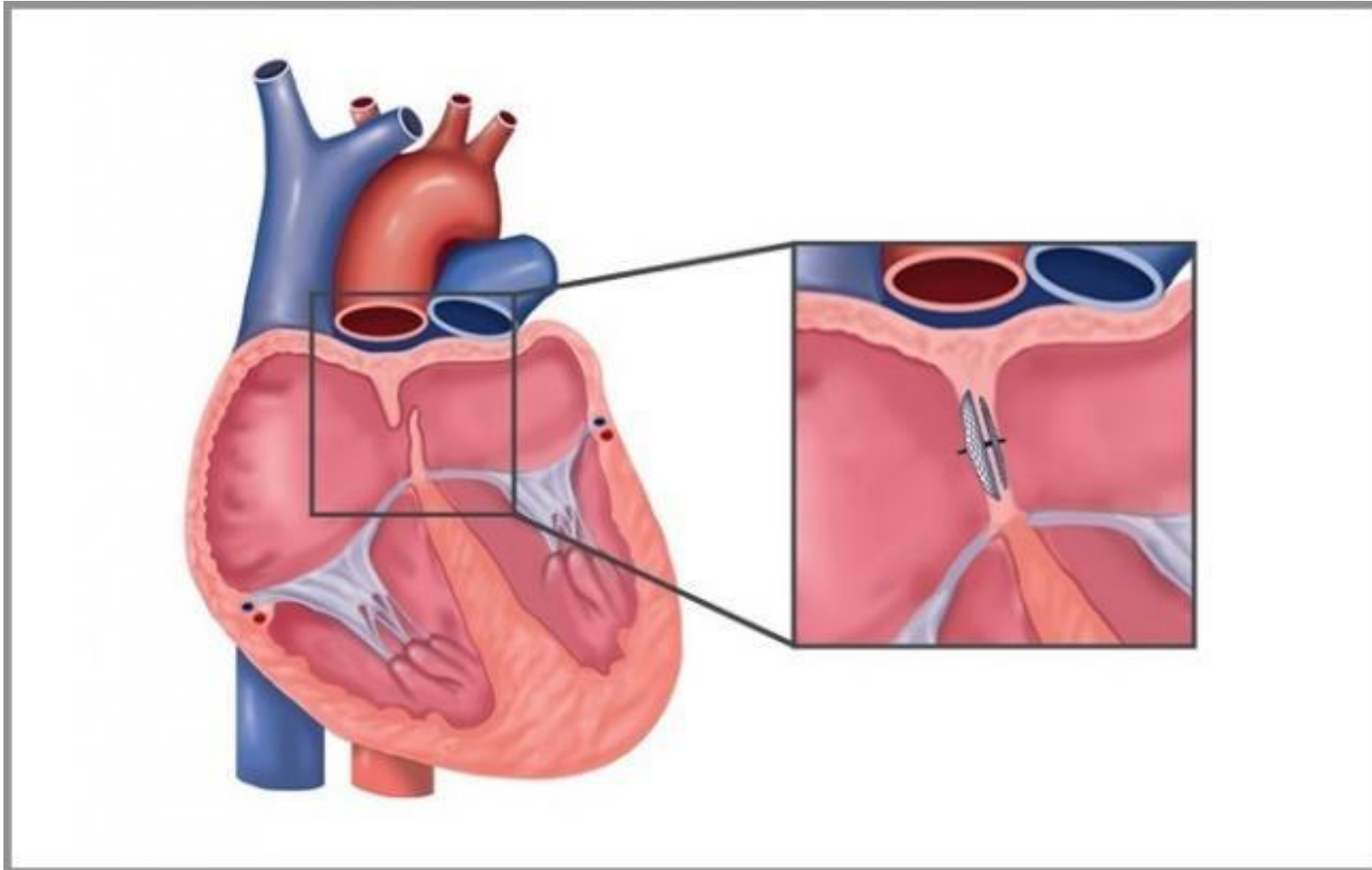
The Low-Risk TAVI Trials for Severe Aortic Stenosis: Future Implications for Australian and New Zealand Heart Teams

Heath Adams, MBBS, FRACP ^{a,b,c,*},
 Ross Roberts-Thomson, MBBS, FRACP ^{a,d},
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 Simon Redwood, MD, FRCP, FACC ^{a,e}



Cryptogenic Stroke and PFO

Dr Nathan Dwyer and Dr Heath Adams



Foetus and Foramen Ovale

- During foetal life lungs do not receive blood flow
 - Oxygenated blood (placental) returning to RA shunted to LA via foramen ovale
- **PFO present in 25%** of the population
 - Haemodynamically insignificant

Modifications in Fetal Pulmonary Circulation

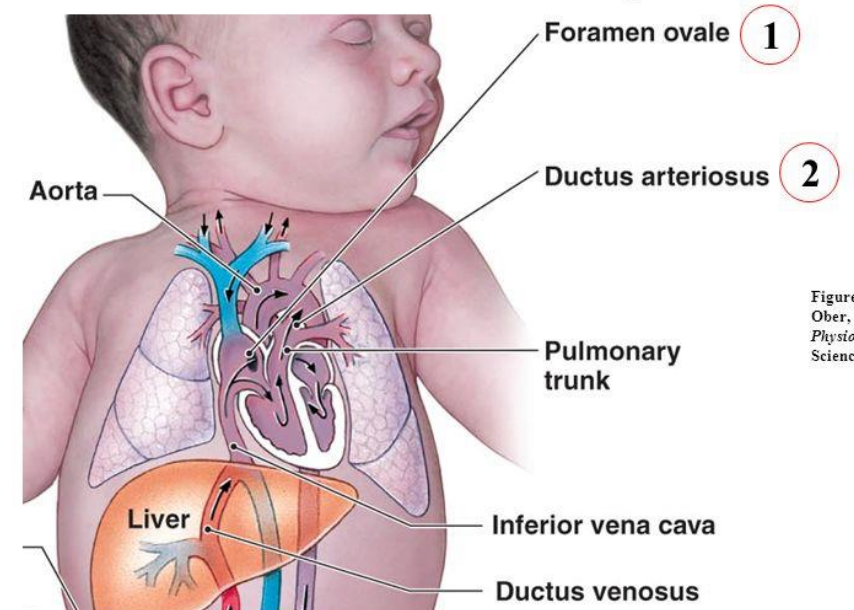
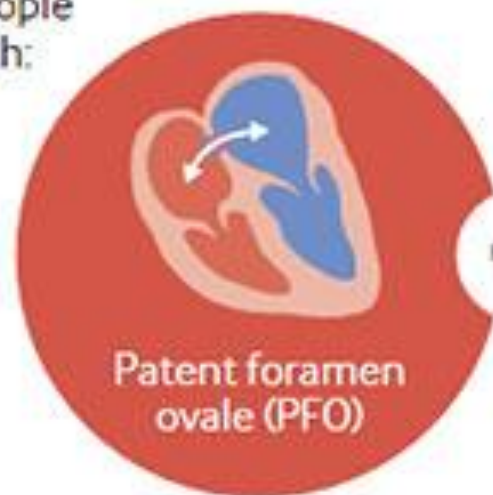


Figure from: Martini, & Ober, *Visual Anatomy & Physiology*, Pearson Science, 2012

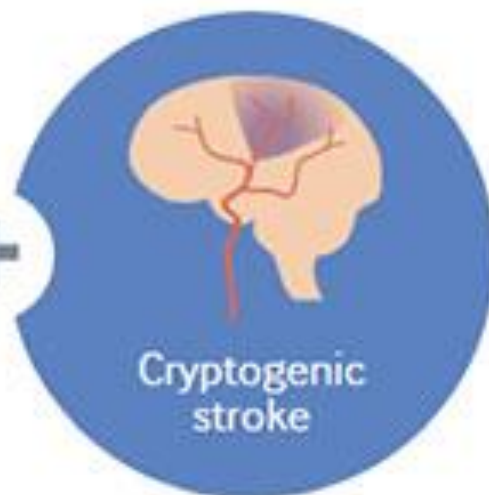
1. **Foramen ovale** – allows blood returning to right atrium to bypass right ventricle and pass directly into left atrium (then to lt. ventricle, then aorta)
2. **Ductus arteriosus** – allows blood from right ventricle and pulmonary trunk to bypass the pulmonary arteries and pass directly into the aorta

Population

People with:



+



No atrial fibrillation

No aortic disease

No left sided heart disease

No cerebrovascular disease

Treatment options:

PFO closure

Anticoagulants

Antiplatelets

The Facts



of people have an open (or patent) foramen ovale (PFO), a type of "hole" in their hearts¹



of all strokes are ischemic, or caused by blood clot blocking a blood vessel²

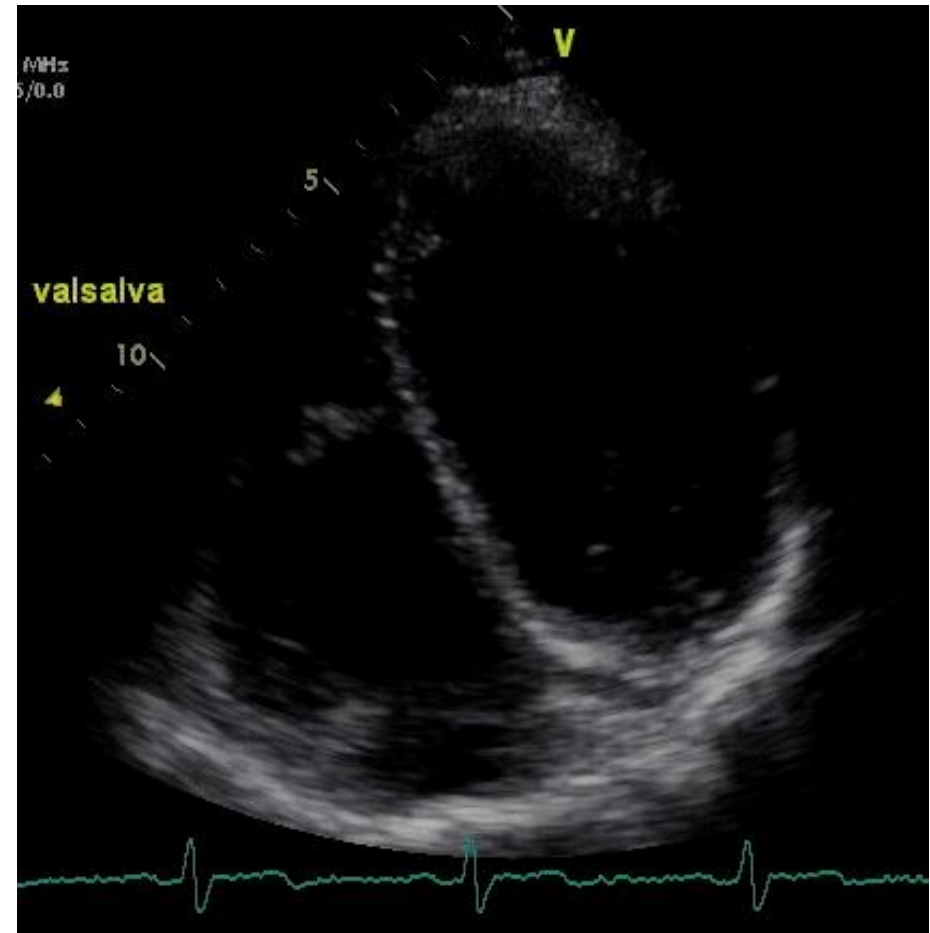
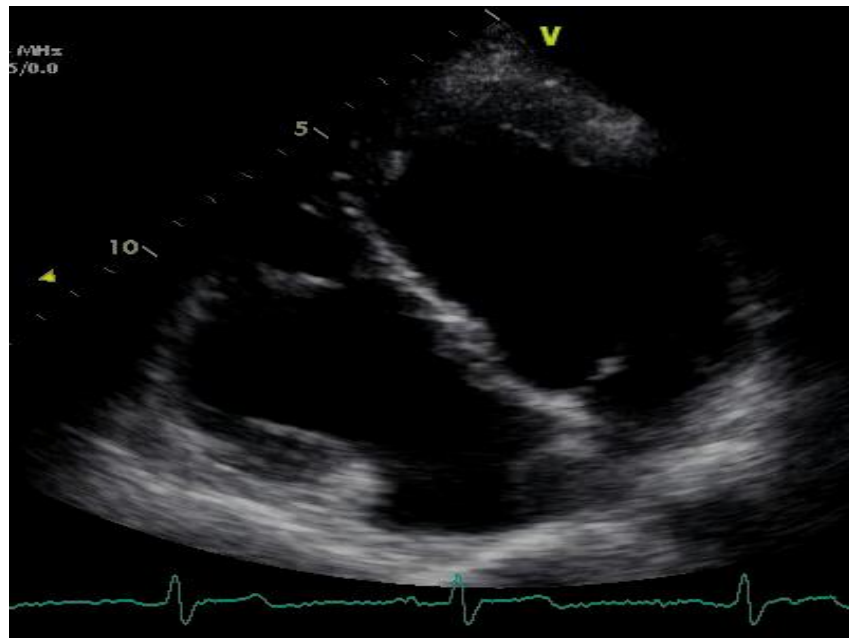


of all ischemic strokes are of an unknown cause (a cryptogenic stroke)²

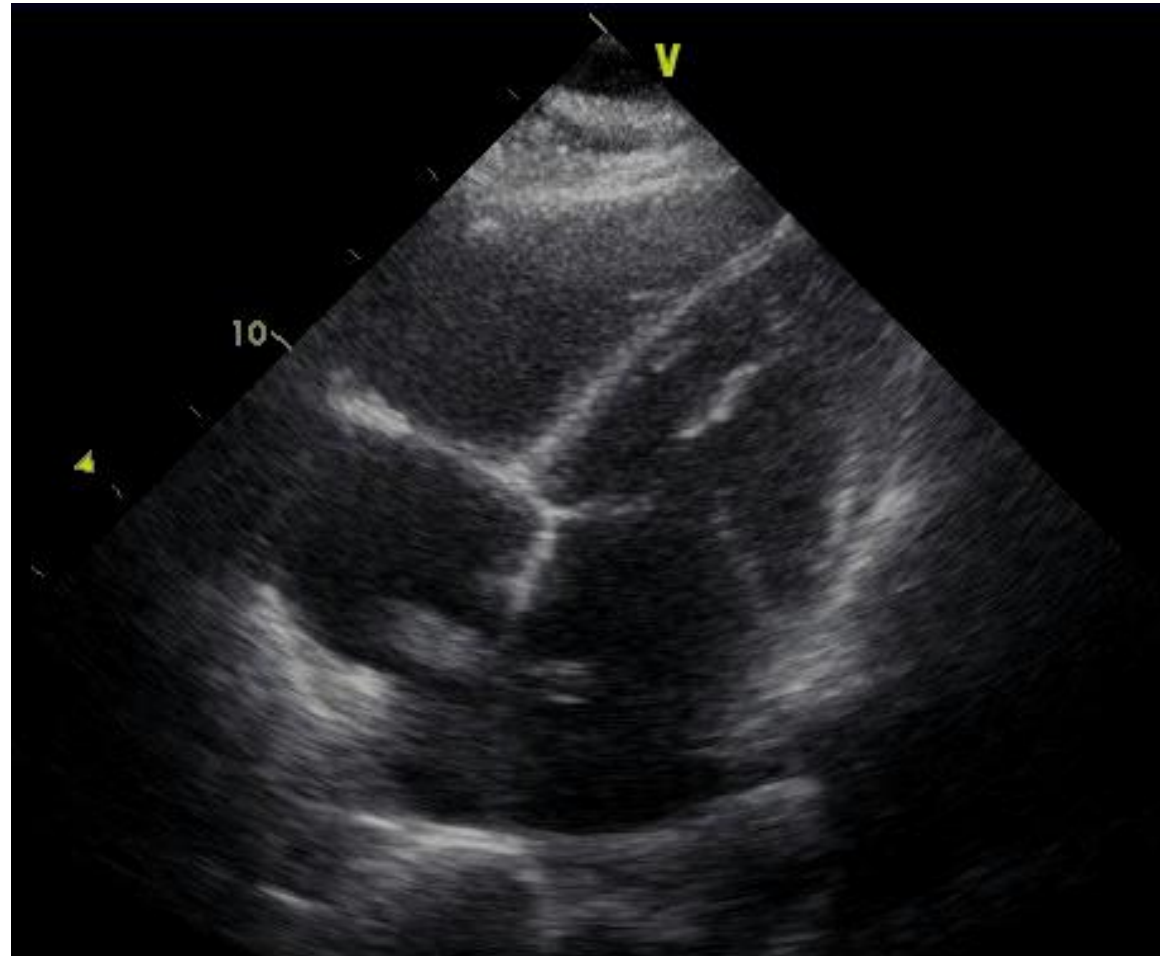


of people having a stroke with an unknown cause (a cryptogenic stroke) including younger people, have a PFO¹

Bubble study



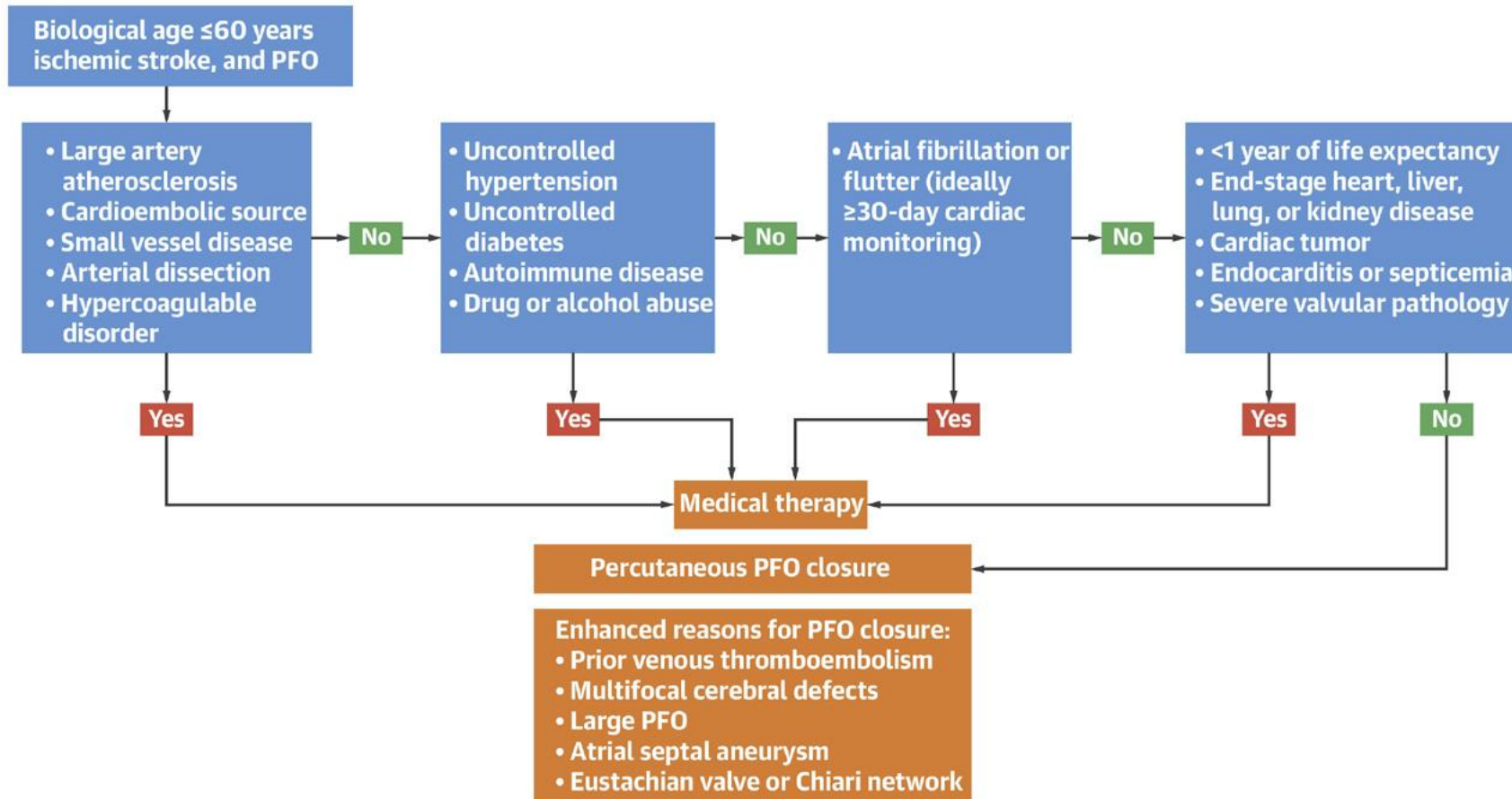
Paradoxical Embolism



Clinical Correlations of PFO

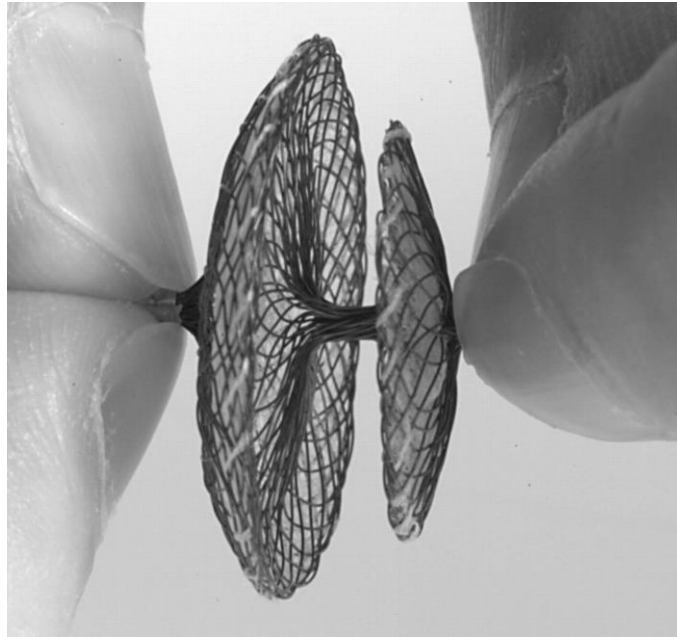
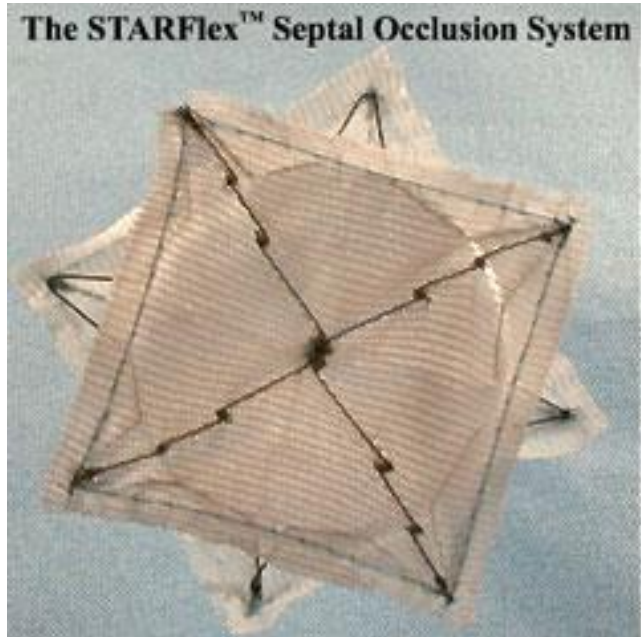
- **Cryptogenic Stroke secondary to paradoxical embolism**
- Migraine and vascular headache
 - MIST TRIAL: High prevalence of right to left shunt in migraine with aura (~60%)
 - **No evidence of significant clinical benefit with PFO closure**
 - Possible reduction in headache free days...
- Decompression sickness and air embolism
- Risk increased with:
 - Larger PFOs
 - Those that travel via air within 12-48hrs after diving
- Platypnoea-orthodeoxia syndrome
 - Dyspnoea and arterial desaturation in upright position with improvement when supine
 - **Two components required:**
 - Inter-atrial shunt or intra-pulmonary shunt
 - Functional component that promotes abnormal shunting
 - Deformity in inter-atrial septum or RA that increases flow through defect

CENTRAL ILLUSTRATION: Evidence-Based Algorithm for PFO Closure in Ischemic Stroke Patients for Highest Clinical Yield, Based on Randomized Trials



Mojadidi, M.K. et al. J Am Coll Cardiol. 2018;71(9):1035-43.

Percutaneous Closure



PFO Closure vs Medical Therapy

The NEW ENGLAND JOURNAL *of* MEDICINE

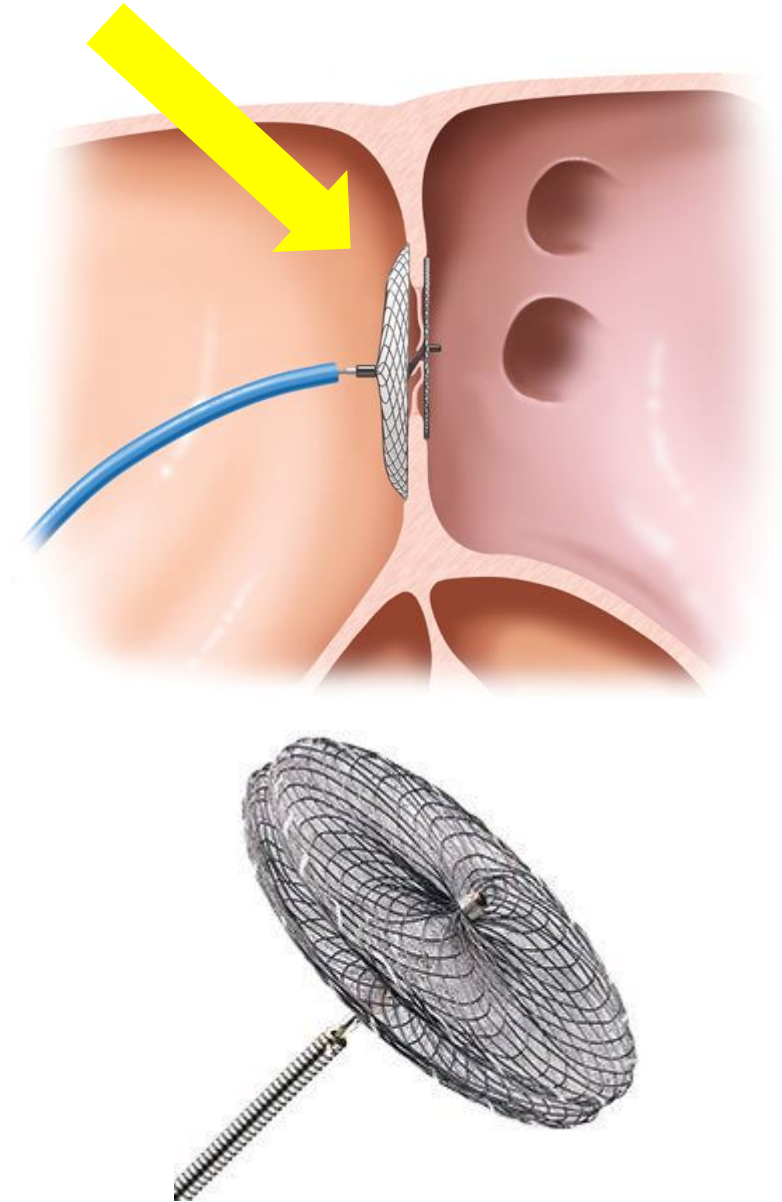
ORIGINAL ARTICLE

Closure of Patent Foramen Ovale versus Medical Therapy after Cryptogenic Stroke

John D. Carroll, M.D., Jeffrey L. Saver, M.D., David E. Thaler, M.D., Ph.D.,
Richard W. Smalling, M.D., Ph.D., Scott Berry, Ph.D., Lee A. MacDonald, M.D.,
David S. Marks, M.D., and David L. Tirschwell, M.D.,
for the RESPECT Investigators*

RESPECT Trial

- Prospective, multi-centre, **randomised trial**
- **980 patients**
- **Followed-up for median 2.6 years +/- 2.0 years**
- Patients randomised 1:1 to:
 - Medical therapy
 - Percutaneous PFO closure



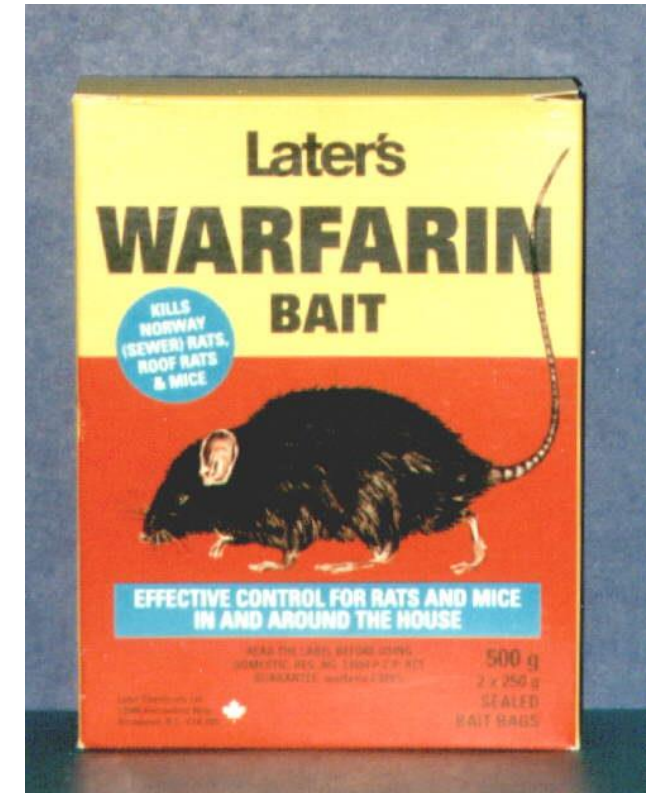
RESPECT Trial - Method

- **Medical Therapy**

- Aspirin
- Aspirin + dipyridamole
- Clopidogrel
- Warfarin

- **Interventional Therapy**

- Amplatzer PFO occluder
 - Within 21 days of randomisation
 - Aspirin + clopidogrel for 1 month then aspirin monotherapy for further 5 months



RESPECT Trial - Method

- Inclusion criteria
 - 18-60 years
 - Cryptogenic ischaemic stroke
 - PFO identified on TOE
 - Randomised within 270 days of stroke

<30 days post implantation of device
<45 days after randomisation

- **Primary end-point**

- Composite of recurrent ischaemic stroke and early death

- **Secondary end-points**

- Complete closure of PFO on 6 month TOE
- Absence of TIA
- Cardiovascular death

Table 1. Characteristics of the Patients at Baseline.*

Characteristic	Closure Group (N = 499)	Medical Group (N = 481)	All Patients (N = 980)
Age — yr	45.7±9.7	46.2±10.0	45.9±9.9
Male sex — no. (%)	268 (53.7)	268 (55.7)	536 (54.7)
Medical history — no./total no. (%)			
Diabetes mellitus	33/499 (6.6)	40/481 (8.3)	73/980 (7.4)
Systemic hypertension	158/499 (31.7)	150/481 (31.2)	308/980 (31.4)
Smoking status			
Current smoker	75/499 (15.0)	55/481 (11.4)	130/980 (13.3)
Former smoker	134/499 (26.9)	143/481 (29.7)	277/980 (28.3)
Hypercholesterolemia	194/499 (38.9)	193/481 (40.1)	387/980 (39.5)
Coronary artery disease	19/499 (3.8)	9/481 (1.9)	28/980 (2.9)
Previous myocardial infarction	5/499 (1.0)	2/481 (0.4)	7/980 (0.7)
Peripheral vascular disease	5/499 (1.0)	1/481 (0.2)	6/980 (0.6)
Previous transient ischemic attack	58/499 (11.6)	61/481 (12.7)	119/980 (12.1)
Previous stroke	53/498 (10.6)	51/481 (10.6)	104/979 (10.6)
Family history of stroke	135/495 (27.3)	108/480 (22.5)	243/975 (24.9)
Migraine	195/499 (39.1)	185/481 (38.5)	380/980 (38.8)
Deep-vein thrombosis	20/499 (4.0)	15/481 (3.1)	35/980 (3.6)
Congestive heart failure	3/499 (0.6)	0/481 (0)	3/980 (0.3)
Chronic obstructive pulmonary disease	4/499 (0.8)	7/481 (1.5)	11/980 (1.1)
Birth control or hormone-replacement therapy	41/499 (8.2)	52/481 (10.8)	93/980 (9.5)

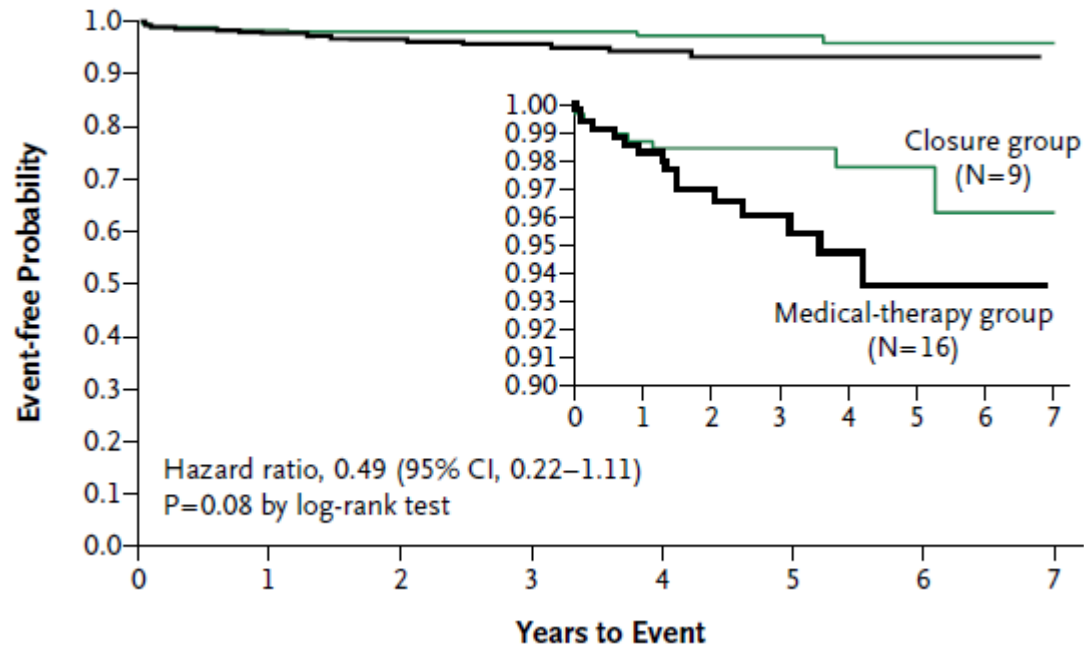
RESPECT Trial - Results

- Median time from index stroke to randomisation = 120 days
- Medical therapy group
 - **46.5%** - Aspirin alone
 - **8.1%** - Aspirin + dipyridamole
 - **14.0%** - Clopidogrel alone
 - **25.2%** - Warfarin

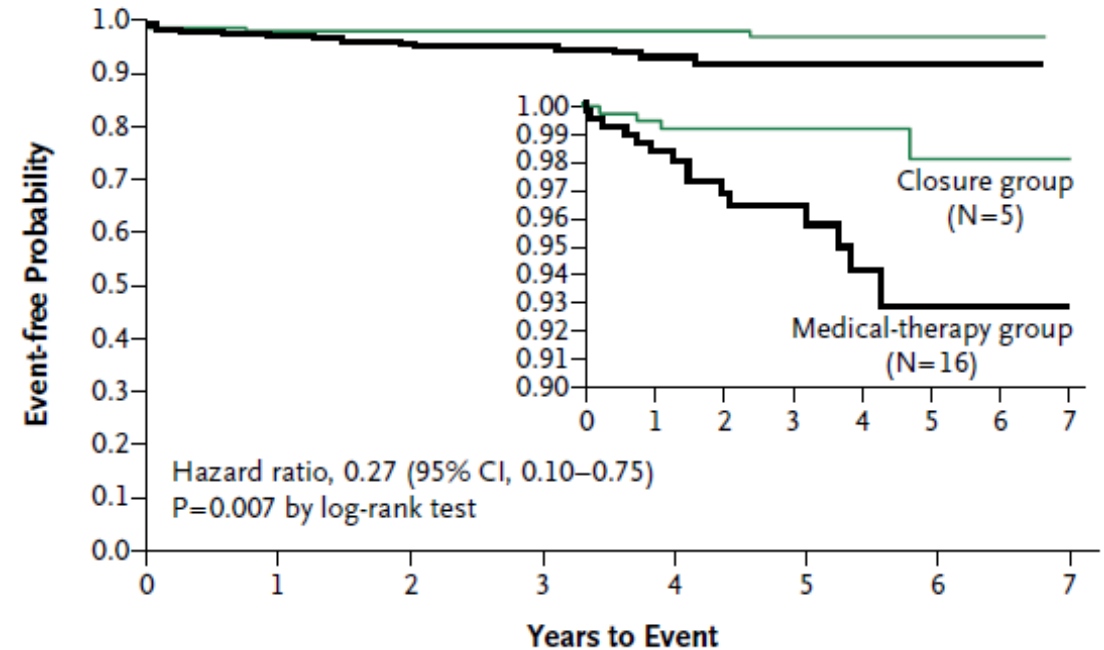
RESPECT Trial - Results

- 25 primary endpoints – all non-fatal ischaemic strokes

A Intention-to-Treat Cohort



B As-Treated Cohort



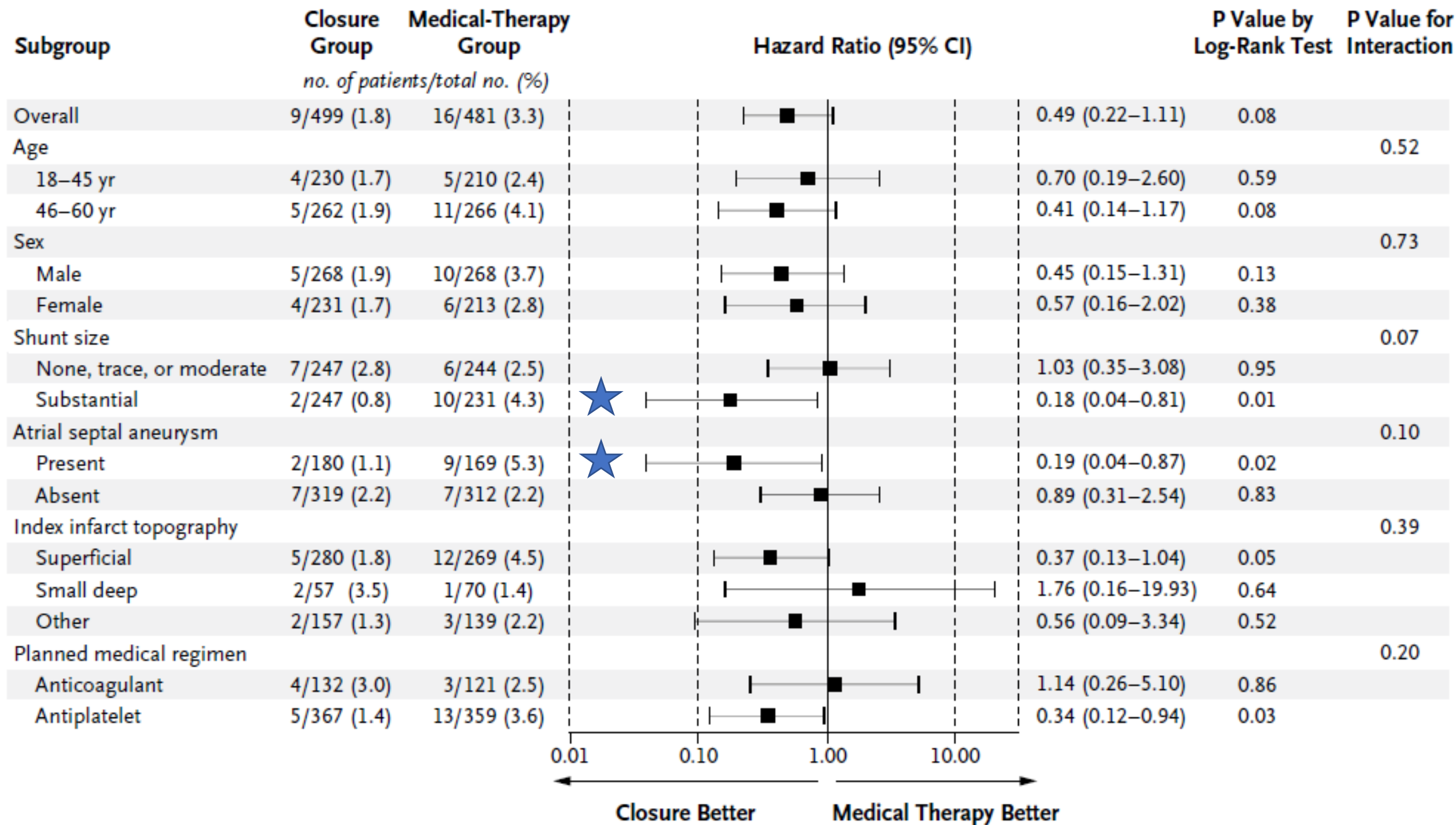


Table 2. Serious Adverse Events Related to the Procedure or Device among the 499 Patients in the Closure Group.*

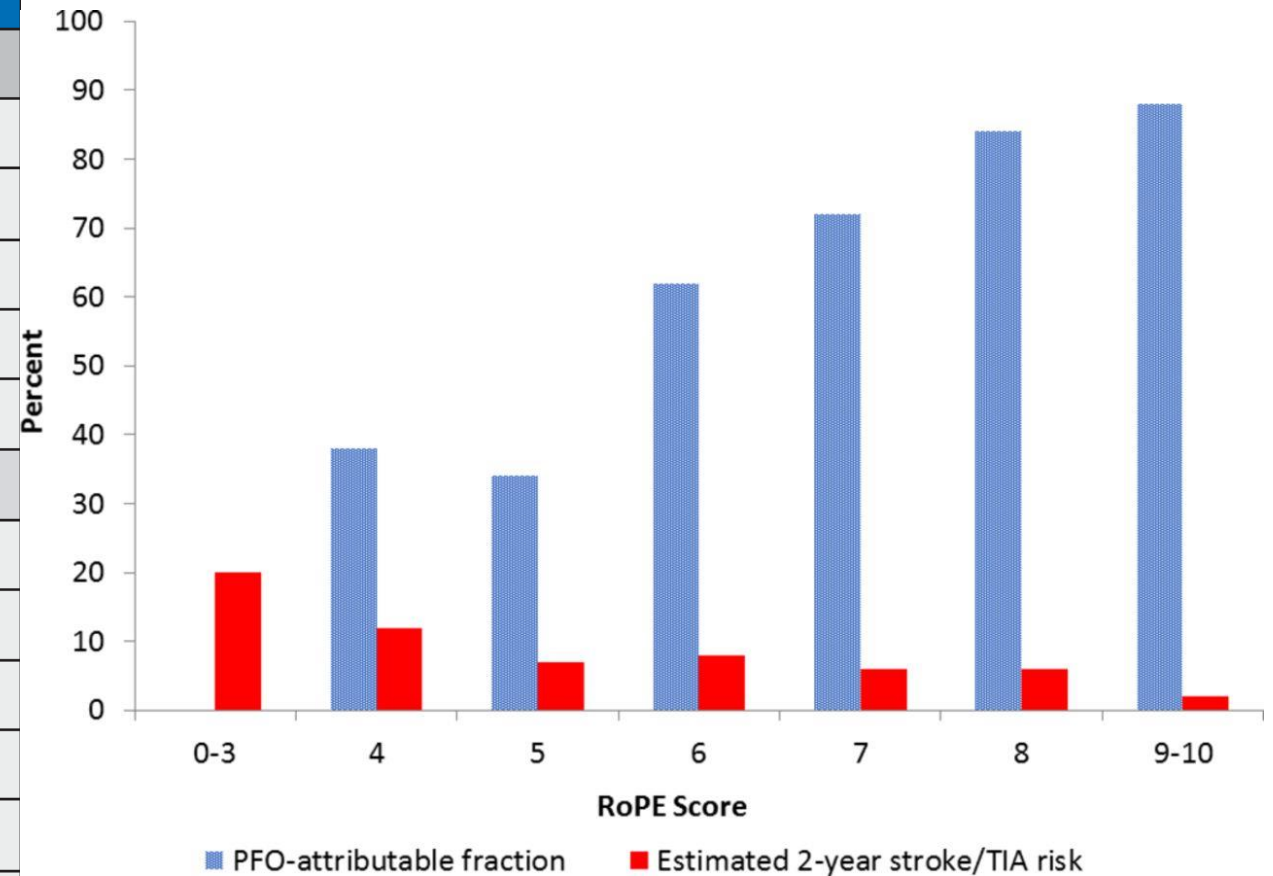
Serious Adverse Event	Patients with Event	Total No. of Events	Procedure-Related Events	Device-Related Events
	<i>no. (%)</i>		<i>no. (%)</i>	<i>no. (%)</i>
Allergic drug reaction	1 (0.2)	1	1 (0.2)	—
Atrial fibrillation	1 (0.2)	1	1 (0.2)	—
Atrial flutter	1 (0.2)	1	—	1 (0.2)
Cardiac perforation	1 (0.2)	1	1 (0.2)	—
Cardiac thrombus	2 (0.4)	2	1 (0.2)	1 (0.2)
Chest tightness	1 (0.2)	1	—	1 (0.2)
Deep-vein thrombosis	1 (0.2)	1	1 (0.2)	—
Infective or bacterial endocarditis	1 (0.2)	1	—	1 (0.2)
Ischemic stroke	2 (0.4)	2	—	2 (0.4)
Pericardial effusion	1 (0.2)	1	1 (0.2)	—
Pericardial tamponade	2 (0.4)	2	2 (0.4)	—
Pulmonary embolism	1 (0.2)	1	—	1 (0.2)
Residual shunt requiring closure	1 (0.2)	1	—	1 (0.2)
Sepsis	1 (0.2)	1	—	1 (0.2)
Nonsustained ventricular tachycardia	1 (0.2)	1	—	1 (0.2)
Major vascular complications				
Bleeding	2 (0.4)	2	2 (0.4)	—
Hematoma	1 (0.2)	1	1 (0.2)	—
Vasovagal reaction	1 (0.2)	1	1 (0.2)	—
Total	21 (4.2)	22	12 (2.4)	10 (2.0)

RESPECT Trial - Conclusion

- **PFO closure not superior to medical therapy**
- Unanswered
 - Large PFOs
 - Different devices
 - Recurrent strokes despite medical therapy
 - Optimal type and duration of anti-platelet therapy with device

RoPE Score

TABLE 1. RoPE SCORE CALCULATOR	
Patient Characteristic	Points
No history of hypertension	+1
No history of diabetes	+1
No history of stroke or TIA	+1
Nonsmoker	+1
Cortical infarct on imaging	+1
Age (y)	
18-29	+5
30-39	+4
40-49	+3
50-59	+2
69-69	+1
≥ 70	+0
Total RoPE score	0-10



Referral (Any Cardiologist)

- Most come from inpatient neurologist or CVA physicians
- GP referral
- MRI-B showing stroke
- <60 years of age and no AF, controlled BP, normal carotids, no hypercoagulable state, no vasculitis, (normal) lipids
- ECG, 24 Hour Holter, hypercoagulable screen, lipids, carotid USS, ECHO with bubble study --> need to request
- All patients will be discussed for appropriateness and combined MDT

The THS Outpatients website

The THS Outpatients Website [Outpatients.tas.gov.au/clinics/cardiology](https://outpatients.tas.gov.au/clinics/cardiology)

The screenshot shows the 'Outpatient Clinics' page for Cardiology on the Tasmanian Health Service website. The page features a navigation menu with links for Home, Clinic directory, Support services, For patients, For clinicians, Wait Times, Telehealth Tasmania, Contact, and Feedback. The main content area is titled 'Cardiology' and includes a search bar, a 'Clinic details' section with a photo of the clinic building, and a 'Schedule' section with a dropdown menu for 'South'. A 'Conditions' sidebar lists various cardiac conditions such as Angina/Myocardial Ischaemia/Chest Pain, Atrial Fibrillation/Flutter, Cardiac Inherited Disease (including HOCM), Heart Failure, Hypertension, Lipid Disorders, Murmur, and Palpitations / Other Arrhythmias (incl SVT). The 'Availability' section shows checkboxes for South, North West, and Statewide, all of which are checked.

What is the Outpatients website?

- THS referral requirements
- Clinic contact information
- Waiting times

Accessible directly at outpatients.tas.gov.au or via Tasmanian HealthPathways

Tasmanian HealthPathways

tasmania.communityhealthpathways.org

Login with 'connectingcare' and pwd 'health'

The screenshot displays the Tasmanian HealthPathways website interface. The top navigation bar includes the 'Tasmania' logo and a search bar. A left-hand sidebar lists various medical specialties, with 'Cardiology Shared Transfer of Care (Post-acute Service / Episode of Care)' selected and highlighted. The main content area shows the breadcrumb trail: 'Home / Cardiology Requests / Cardiology Shared Transfer of Care (Post-acute Service / Episode of Care)'. The page title is 'Cardiology Shared Transfer of Care (Post-acute Service / Episode of Care)'. The content is organized into sections: 'Background' (with a link 'About shared transfer of care'), 'Assessment' (subdivided into 'Public Hospital' and 'Private Hospital'), and 'Management' (starting with '1. Considerations:'). The 'Private Hospital' section includes two bullet points: 'Review the nurse-generated summary of the patient's admission. This should include details of all follow-up appointments, including any community nurse or allied services referral if appropriate or applicable.' and 'A consultant letter should follow. If not received contact the relevant consultant directly (see Tasmanian Health Directory "Specialist").' The 'Management' section lists several considerations: 'Cardiovascular risk assessment', '"Get the Most out of Life" chronic disease self-management', 'Medication Management Review', 'Care coordination', 'Physical activity', 'Smoking cessation advice', and 'Dietary advice'. A chat icon is visible in the bottom right corner of the page.

What is HealthPathways?

- HealthPathways offers clinicians locally agreed information to make the right decisions, together with patients, at the point of care.
- Content is developed collaboratively by general practitioners, hospital clinicians, and a wide range of other health professionals. Each pathway is evidence-informed, but also reflects local reality, and aims to preserve clinical autonomy and patient choice. HealthPathways serves to reduce unwarranted variation and accelerate evidence into practice.

Tasmanian HealthPathways relevant to tonights presentations

- Cardiology general pathway: <https://tasmania.communityhealthpathways.org/25270.htm>
- Post-PCI/NSTEMI: <https://tasmania.communityhealthpathways.org/95619.htm>
- Prosthetic valve follow-up: <https://tasmania.communityhealthpathways.org/55205.htm> though
- Palpitation pathway: <https://tasmania.communityhealthpathways.org/25273.htm>
- ACS the acute chest pain pathway: <https://tasmania.communityhealthpathways.org/27916.htm>

Username 'connectingcare' | password 'health'

Stay informed



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