REPRISE II

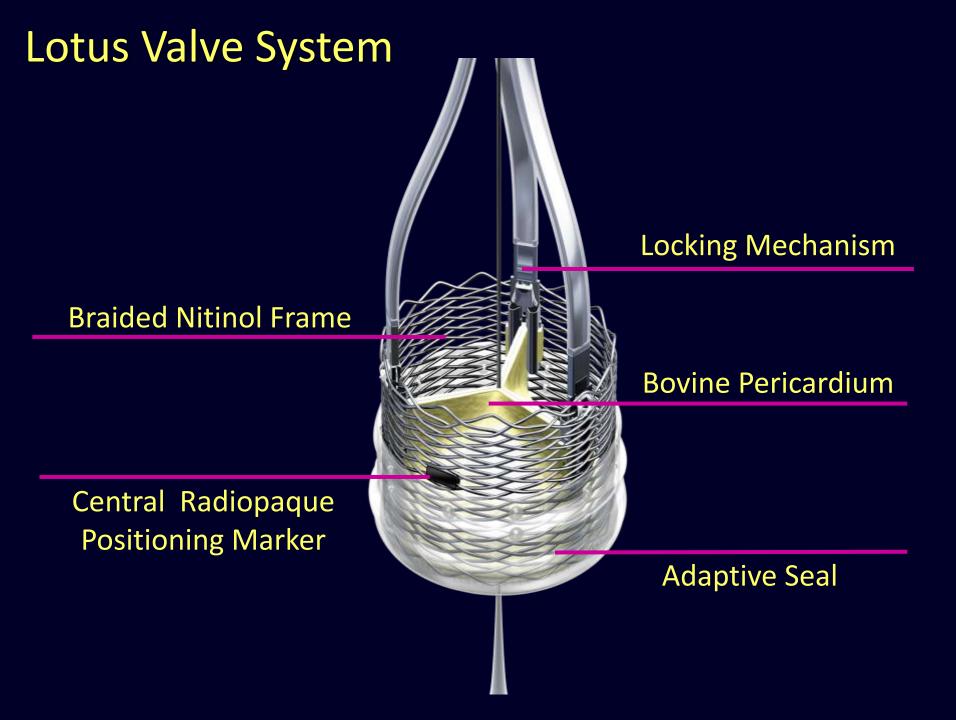
A Prospective Registry Study of Transcatheter Aortic Valve Replacement with a Repositionable Transcatheter Heart Valve in Patients with Severe Aortic Stenosis.



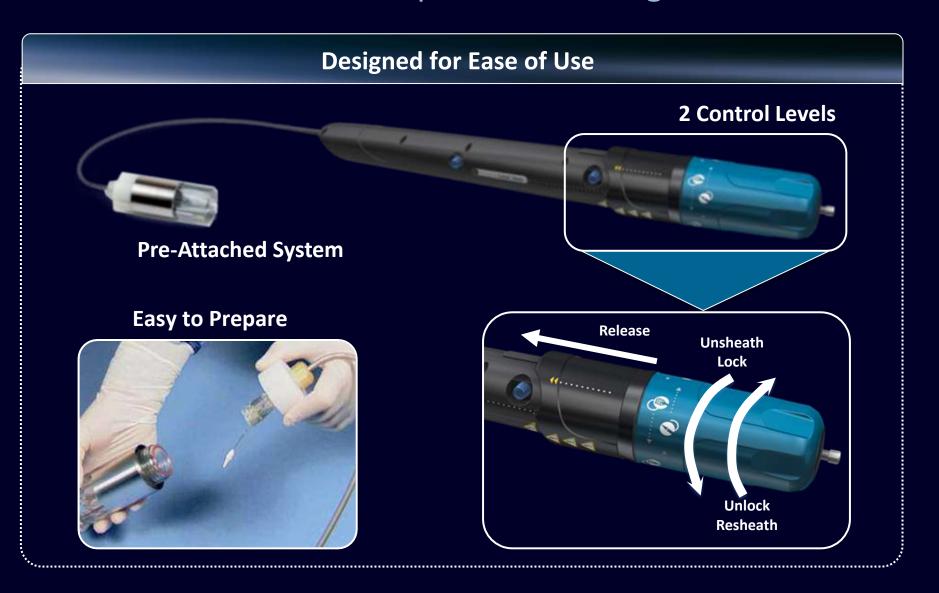
Ian T. Meredith AM,

MBBS, PhD, FRACP. FCSANZ, FACC, FSCAI, FAPSIC, FAHA

Professor and Director of MonashHEART, Monash Health, Monash Medical Centre and Monash University Clayton, Victoria, Australia

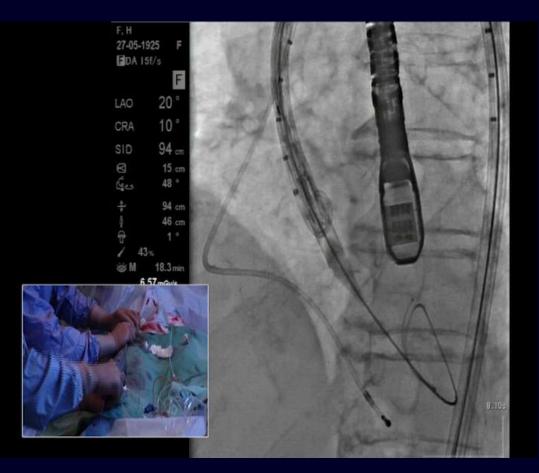


Lotus Valve System Design Goals Pre-mounted valve and simple handle design



Lotus Valve System Design Goals Controlled Mechanical Expansion

- Valve deployed via controlled mechanical expansion.
 - Neither balloon expandable nor self-expanding.
- No rapid pacing during deployment
- Valve functions early
- No valve movement on release



Lotus Valve System Design Goals Controlled, Accurate, and Predictable Positioning

- Central radiopaque positioning marker to guide placement
- Valve is repositionable throughout entire deployment process

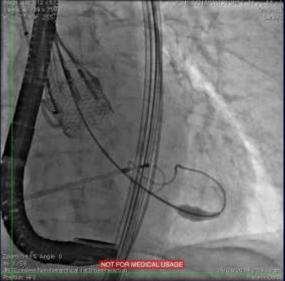


Partial Re-sheathing to Reposition (Focus on the marker)

REPRISE II Case Example

Minor Repositioning to reduce AR and influence AV conduction

23mm Lotus Valve









Reprise II Lotus Case Ian Meredith AM

REPRISE II Case Example

23mm Lotus Valve Retrieval and Exchange for 27mm Valve

23 mm valve deployed. Too small; significant PVL Atraumatic resheathing to retrieve and remove

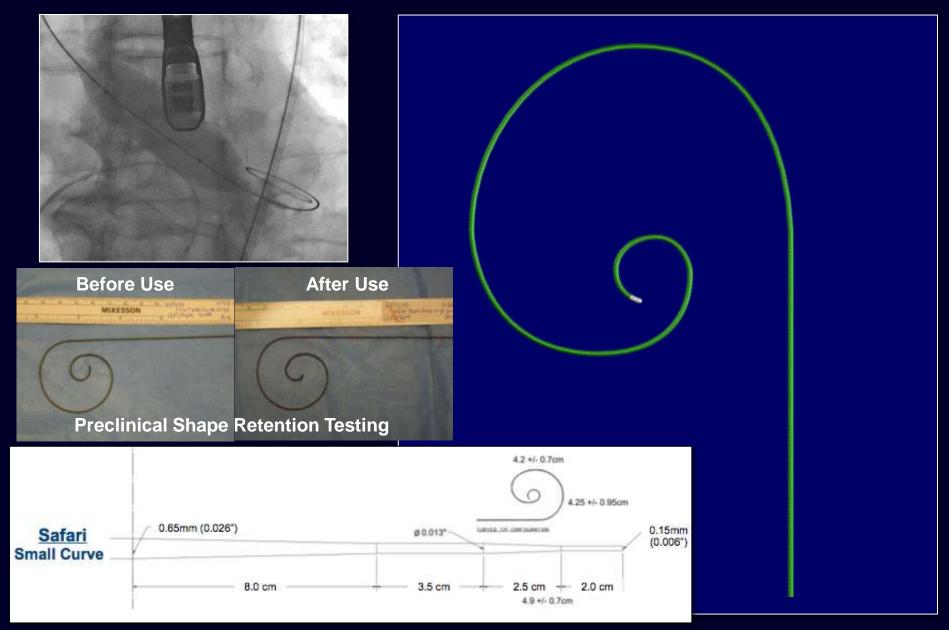
Replaced with 27mm valve No PVL



Reprise II Lotus Case Ian Meredith AM

Case study not necessarily representative of all cases. Results in other cases may vary. Lotus is an investigational device and not for sale in the US. CE mark received 2013. Information for the Lotus Valve System is for use in countries with applicable product registrations

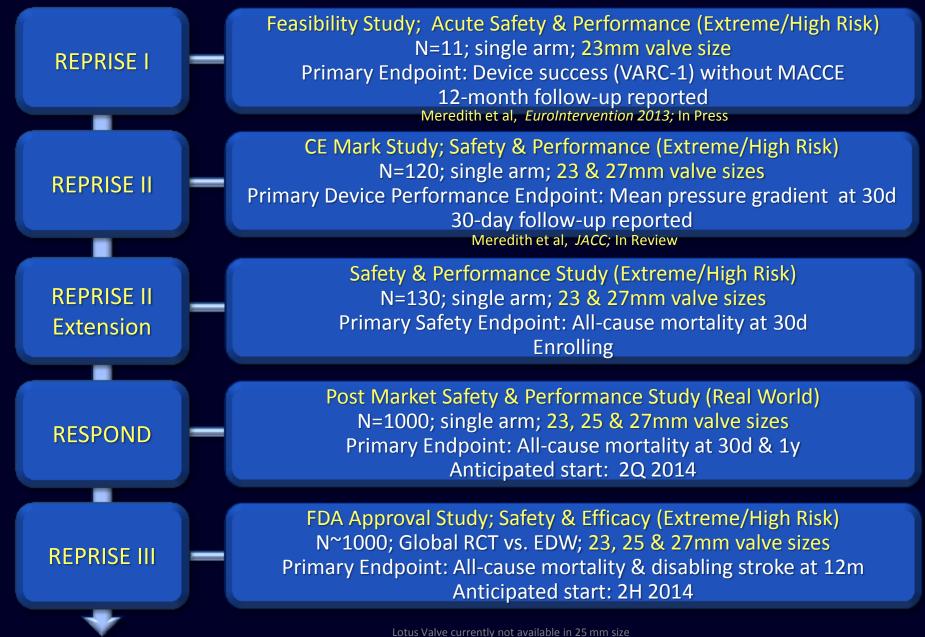
Safari Guidewire



The Safari™ guidewire is manufactured by Lake Region Medical and distributed by Boston Scientific Corporation

Lotus Clinical Program





REPRISE II Trial Primary Device Performance Endpoint



* Value of 11.5mmHg with a 98.7%[‡] UCB of 12.6mmHg is significantly less than the performance goal (P <0.001)

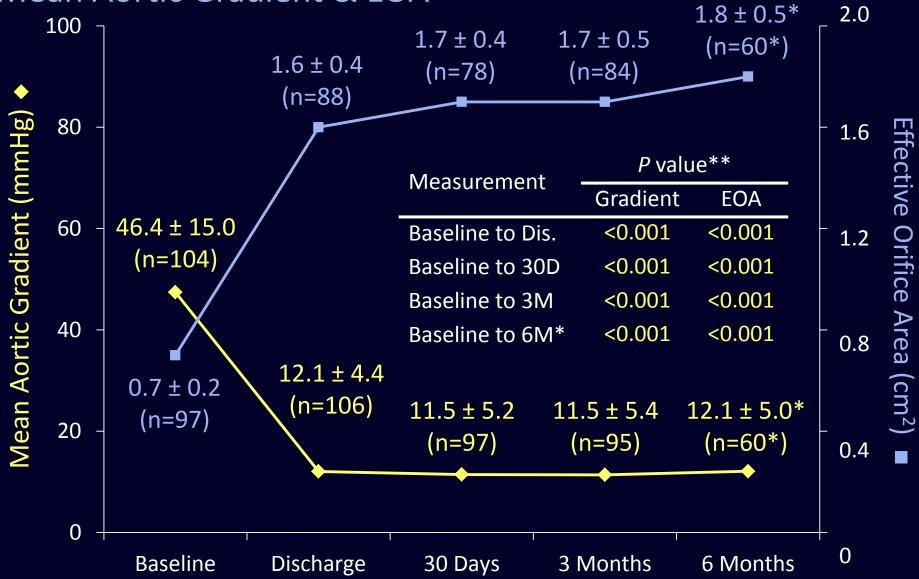
Presented by Ian Meredith AM, MBBS, PhD at TCT 2013

[‡] Alpha-level adjustment for multiple analyses (final analysis)

⁺ Based on an expected mean of ≤15 mmHg (literature review) plus a test margin of 3mmHg

REPRISE II Trial Mean Aortic Gradient & EOA





*6M data available only from first 60 patient cohort to date. **Repeated measures and random effects ANOVA

REPRISE II Trial

Valve Malpositioning / Other Complications



Dationto

	Patients (N=120)
Correct positioning; 1 valve in proper location	100.0% (0)
Aortic valve malpositioning	0.0% (0)
Valve migration	0.0% (0)
Valve embolization	0.0% (0)
Ectopic valve deployment	0.0% (0)
TAV-in-TAV deployment	0.0% (0)
Aortic valve endocarditis	0.0% (0)
Aortic valve thrombosis	0.0% (0)

REPRISE II Trial 3-Month Safety Results



onth Salety Results	Patients (N=119*)
All-cause mortality (Primary Safety Endpoint a	at 30 days) 5.0% (6/119)
Disabling stroke ⁺	2.5% (3/119)
Myocardial infarction	3.4% (4/119)
Life-threatening or disabli	ng bleeding 5.0% (6/119)
Major vascular complication	on 2.5% (3/119)
New permanent pacemak	er 28.6% (34/119)
LVOT overstretch ≥10%	55.9% (19/34)
Annulus overstretch ≥10	% 41.2% (14/34)

Presented by Ian Meredith AM, MBBS, PhD at ACC 2014

* One patient withdrew consent

⁺ Neurologic assessment was performed on all patients pre- and post-procedure.

REPRISE II Aortic Regurgitation eprise Paravalvular Aortic Regurgitation Over Time Paravalvular 100% 2.7 2.0 1.0 2.1 Percent of Evaluable Echocardiograms 12.5 13.1 15.6 12.5 23.9 Severe 80% 6.1 5.2 Moderate 60% -43.8 🗾 Mild 40% 85.4 78.8 78.1 76.1 20.5 🔟 Trace 20% -🔟 None 20.5 0% 6 Months* Discharge/7d 3 Months **Baseline** 30 Days (N=102) (N=52*) (N=112) (N=110) (N=103) No severe paravalvular aortic regurgitation post-implantation

Presented by Ian Meredith AM, MBBS, PhD at ACC 2014

*6M data available only from first 60 patient cohort to date.

Summary



Lotus Valve Design Goals

- Adaptive seal to mitigate PVL
- Controlled mechanical expansion
- Precise and accurate positioning
- Repositionable & retrievable any time before release
- Size matrix expansion to reduce pacemaker implants
- Second generation TAVR technologies show promise in reducing PVL and improving clinical outcomes