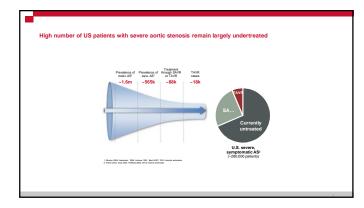
TAVR and Beyond – What is New in Structural Heart Interventions at Cox Health

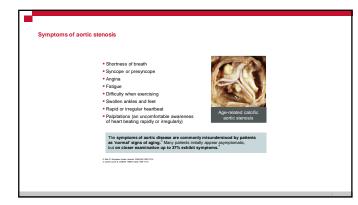
Philipp Wiesner, MD FACC Interventional Cardiology Ferrell Duncan Clinic – Cox Health

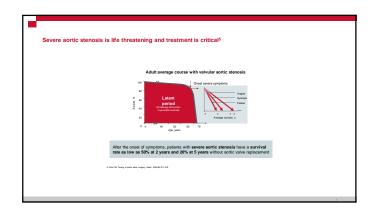
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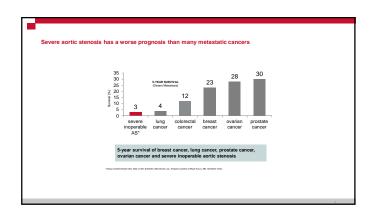
- 1. Aortic Stenosis and Treatment
- Left Atrial Appendage Occlusion with Watchman for stroke prevention in atrial fibrillation with contraindication to long term anticoagulation
- 3. Transcatheter Mitral Valve Repair with Mitraclip

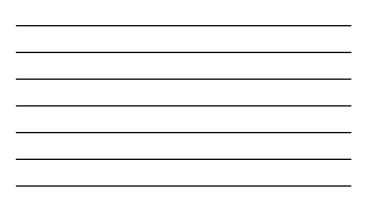




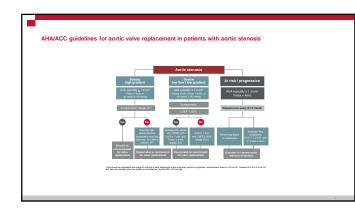




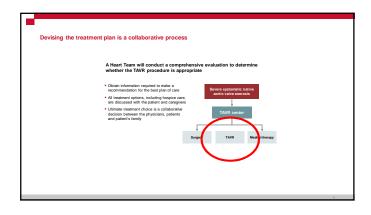


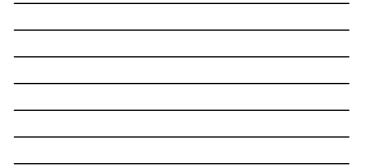


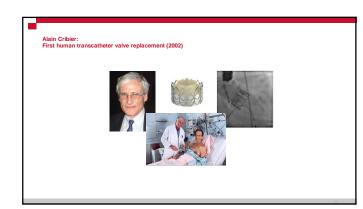


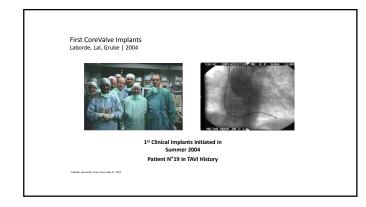












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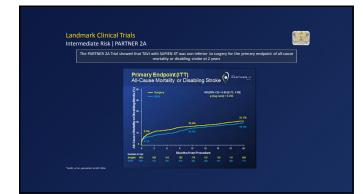








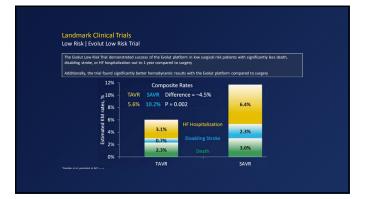




Landmark Clinical Trials Low Risk Recently, both Medironic and Edwards presented and published results from randomized low risk trials Primary Results From the Evolut Low Risk Primary Results From the Evolut Low Risk Results Artic Value Results From the Evolut Institute, Houston, Results From Evolut Low Risk Patients with Arche Sectors Results From Surgical Artic Value Results From Surgica



6



PARTNER 3

The PARTNER 3 Trial Clinical Implications

- Based upon these findings, TAVR should be considered the preferred therapy in low surgical risk aortic stenosis patients.
- Over the past 12 years, the PARTNER trials clearly indicate that the benefit of TAVR is independent of surgical risk profiles.
- The choice of TAVR vs. surgery in aortic stenosis patients should be a shared-decision making process, respecting patient preferences; every patient should be informed of all treatment options.

Is TAVR for Everyone?

Patient Selection Considerations

With TAVI now proven safe across the risk spectrum, several new factors will drive patient selection

- Valve Durability
 Hemodynamic Performance
 Coronary Access
 Conduction Disturbances and Pacemakers
 Stroke
 Paravalvular Leak
 Leaflet Thrombosis
 Challenging Anatomies (i.e. Bicuspid Aortic Stenosis)
 Treatment of Failed Bioprosthetics

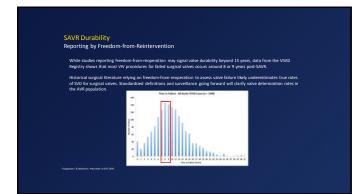
Valve Durability???

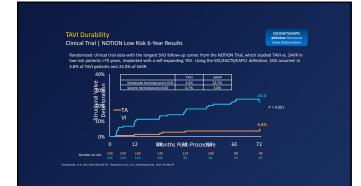
AVR Durability Current Status

Surgical aortic valve replacement (SAVR) has been the historical gold standard for treating severe symptomatic aortic stenosis.

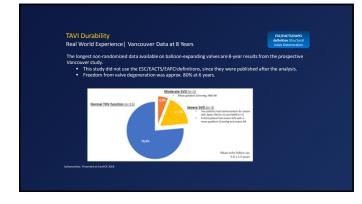
The durability of bioprosthetic valves has been reported, but variation in definitions of valve
deterioration, methodology, and follow-up are major limitations in the literature.

The first transcatheter aortic valve was commercialized in 2007. There are some data on early generation TAV recipients out to '10 years, but these long-term data come from extreme- or high-risk populations where the competing risk for mortality is high.











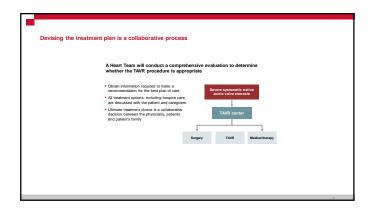
Durability Key Takeaways

- Historically, AVR durability has been measured by rate of reoperation, which can mask de facto valve deterioration in cases where re-do AVR is postponed or unfeasible.
- Data on surgical valve SVD is limited. Recent data from the VIVID registry estimate a median time-to-reintervention of 9 years.
- In an all-comers population, self-expanding valves yielded lower rates of cumulative hemodynamic SVD compared to SAVR out to 6 years.
- Age at implant is an important risk factors for SVD
- Clinical trials in intermediate- and low-risk patients will follow patients out to 10 years and provide much needed information on TAVR valve durability.

New polymer heart valve implanted in first patient

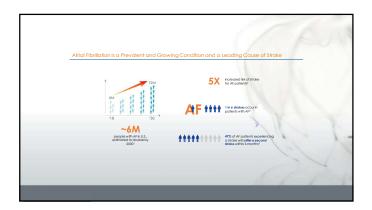


Credit: California Institute of Technology

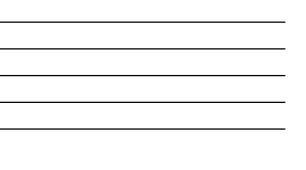


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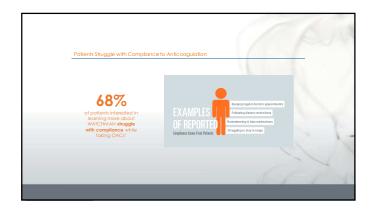
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- 3. Transcatheter mitral valve repair with Mitraclip
- 4. Patent Foramen Ovale (PFO) closure for stroke prevention

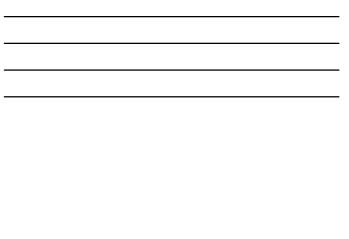


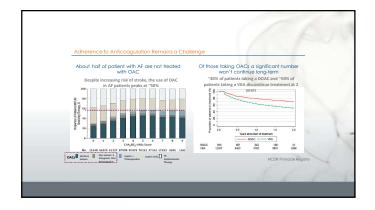




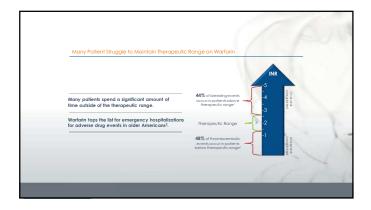










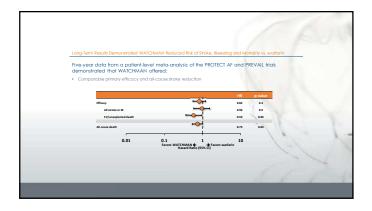


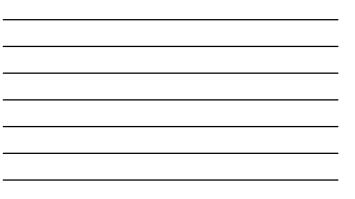
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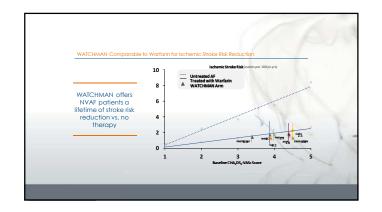




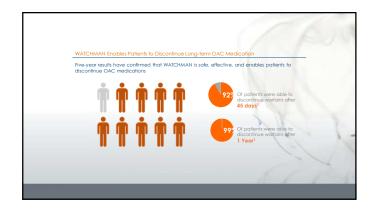






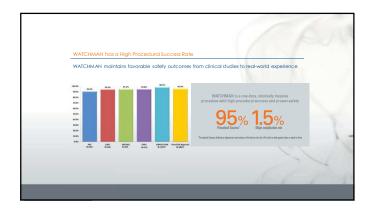


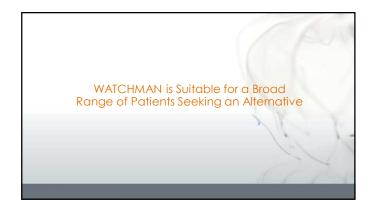














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