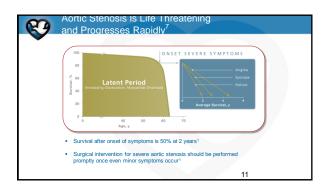
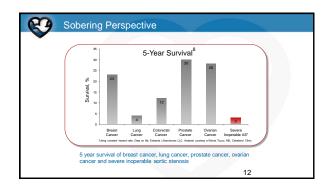
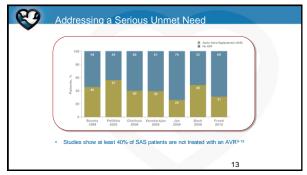
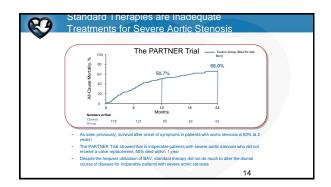


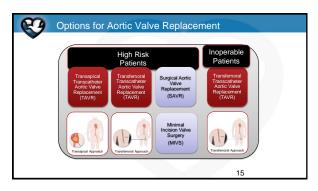
Grading the Seve	rity of Aortic Steno	sis per the ACC/AHA Gui	delines
Indicator	Mild	Moderate	Severe
Jet velocity (m/s)	< 3.0	3.0 - 4.0	> 4.0
Mean gradient (mmHg)	< 25	25 - 40	> 40
Valve area (cm²)	> 1.5	1.0 - 1.5	< 1.0
Valve area index (cm²/m²)	N/A	N/A	< 0.6
According to the 2008 as: • Aortic valve area (AV • Mean gradient greate	A) less than 1.0 c		



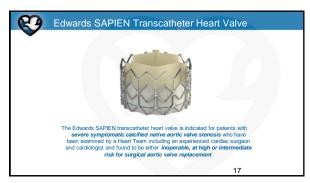


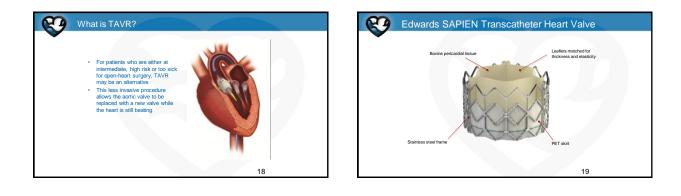


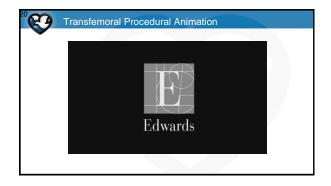








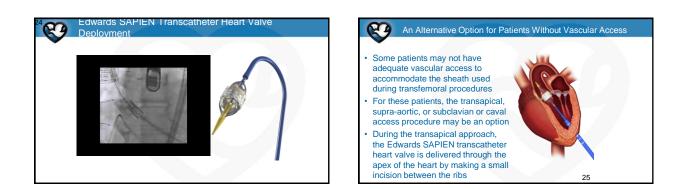


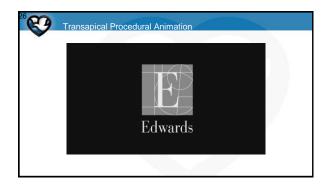


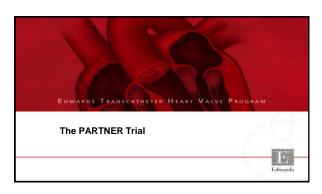


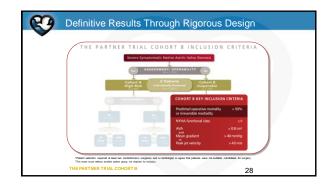


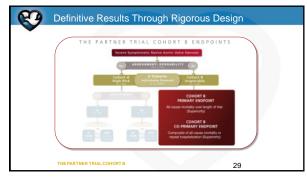


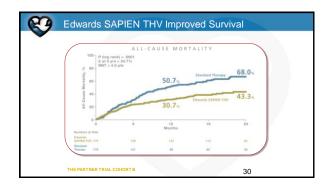


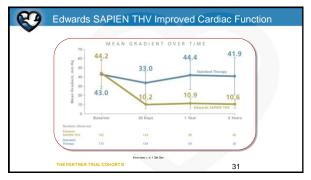


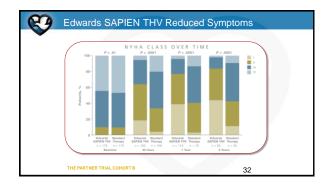




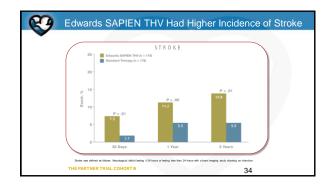


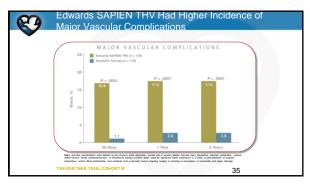


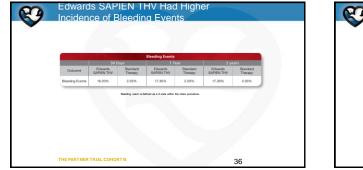




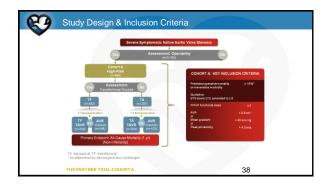
			Complications			
	30 C	lays	1 Y	er:	2 ye	ars
Outcome	Edwards SAPIEN THV	Standard Therapy	Edwards SAPIEN THV	Standard Therapy	Edwards SAPIEN THV	Standard Therapy
All-cause mortality	5.00%	2.80%	30.70%	50.70%	43.30%	69.00%
Death or repeat hospitalization	11.70%	12.30%	44.10%	71.60%	56.70%	87.90%
Stroke	7.30%	1.70%	11.20%	5.50%	13,80%	5.50%
Major vascular complications	16.80%	1.10%	17.40%	2.80%	17.40%	2.80%
Bleeding events	16.20%	2.20%	17.30%	2.20%	17.30%	2.20%
New papemaker implantation	3.40%	5.10%	4.70%	8.60%	6.40%	8.60%
Major vascular comple perforation, rupture, au or pencutarvisous or au or knewerable end-org Dieeding event is defin	cations were defined as terio-venous fishals, pse rgical intervention, and/o	any horacic aortic de udoaneuryam, or her r datel embolization e index procedure.	section, access sile or ac retornal leading to either	cess-related vancular leath, need for signifi-	ing study showing an infa injury (dissection, stenes) and blood transmasion (-) surgery or resulting in am	unital.

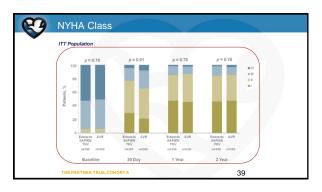


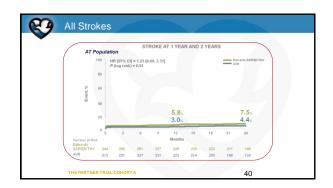


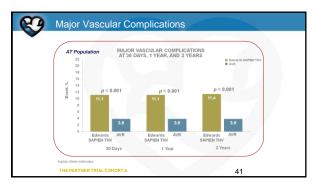


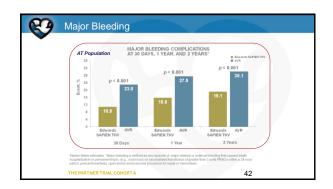


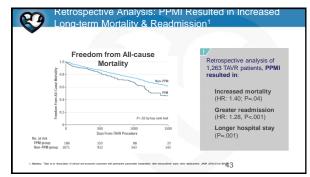


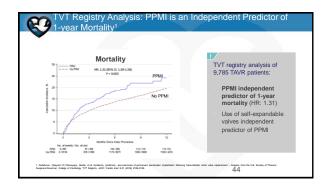








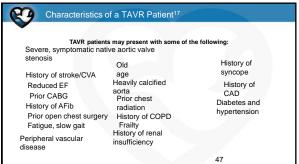


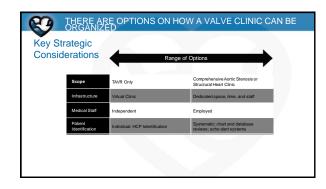


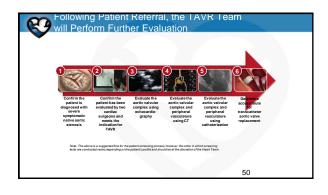
Key Takeaways - Cohort B

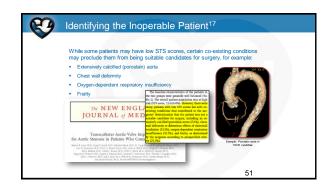
- At 2 years, in patients with severe symptomatic native aortic valve stenosis who were not suitable candidates for surgery:
- Treatment with the Edwards SAPIEN THV remained superior to standard therapy with incremental benefit from 1 to 2 years, reducing the rates of mortality and repeat hospitalization
- Treatment with the Edwards SAPIEN THV improved NYHA functional status and decreased class III/IV symptoms compared to standard therapy
- There were significantly more strokes in patients treated with the Edwards SAPIEN THV than in patients who received standard therapy
- Patients treated with the Edwards SAPIEN THV also had a higher incidence of major vascular complications and major bleeding than standard therapy patients

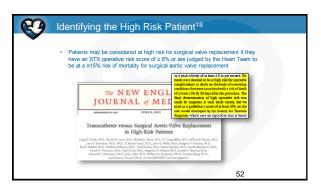














Intermediate Risk SURTAVI COR Valve

- STS 4.4%+/-1.6% Any cause death or disabling stroke
- No embolic protection allowed
- 12.6% primary endpoint TAVR/14% in surgical group
- Stoke similar in both groups/better in transfemoral TAVR
- More bleeding in surgical group/less PPM in TAVR group
- More vascular access complications in TAVR group (4%)
- · More AFIB in surgical group
- · More pacers in TAVR constant despite EvoluteR in 27% of pt.
- Shorter LOS in TAVR (not an endpoint)
- More AR in TAVR but better orifice area in TAVR



PARTNER 2 Intermediate risk

- SAPIEN XT second generation device
- Better Areas with TAVR
- More AR 3.7% severe and 21% mild/moderate
- Transfemoral had lower death/stroke Apical access similar to surgery
- SAPIEN XT already replaced by SAPIEN 3
 - Similar Pacer rates 8.5/6.9 TAVR/SURG

LOW RISK TRIALS

- ENROLLMENT BEGAN 2016/COMPLETE 2021Medtronic
- Low Risk defined as surgical mortality at 30 days <3%
- These patients have the longest expected lifespan

LOW RISK

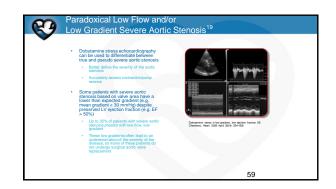
- · WAKSMAN et al multicenter investigator initiated trial
- 11 centers
- No mortality first 125 patients at 30 days/no strokes
- 4% major vascular access complications
- 4.8% AFIB
- 4.8% new pacer
- HALT Hypo-attenuating leaflet thickening 12.5%
- 14.4% on antiplatetlet RX (n=97) none on warfarin or direct anticoagulant (n=21)
- · Subclinical thrombosis may result in diminished durability

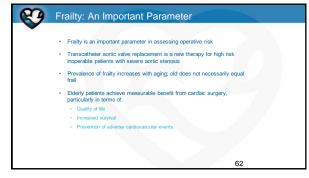
LOW RISK TRIALS

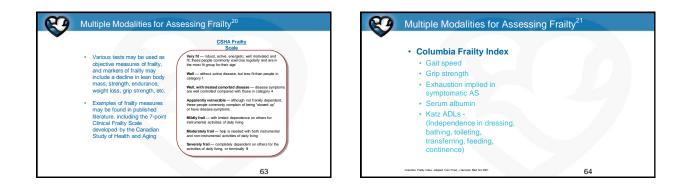
- MEDTRONIC 1200 patients with EVOLUTE R
- PARTNER 3 EDWARDS 1300 patients with SAPIEN 3
- NOTION 2 European trial
- STS score <2%

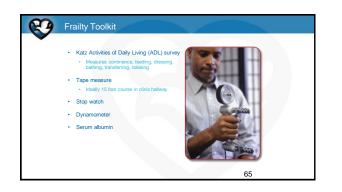
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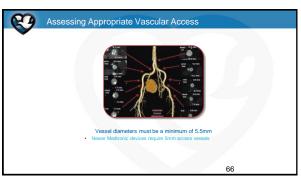
Echocardiographic Guidelines are the Gold Standard 27 in Assessing Severe Aortic Stenosis⁶ cording to the 2008 ACC/AHA guidelines, severe aortic stenosis is defined as Aortic valve area (AVA) less than 1.0 cm² Mean gradient greater than 40 mmHg or jet velocity greater than 4.0 m/s v of Aortic Jet velocity (m/s) < 3.0 3.0 - 4.0 > 4.0 25 - 40 > 40 Mean gradient (mmHg) < 25 Valve area (cm²) > 1.5 1.0 - 1.5 < 1.0 ve area index (cm²/m²) N/A N/A < 0.6 58

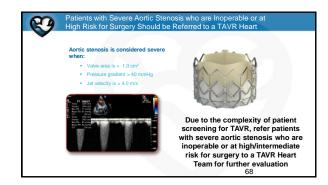


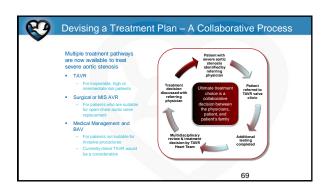


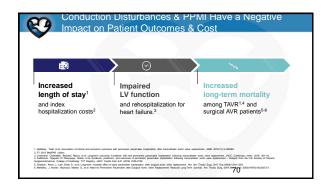




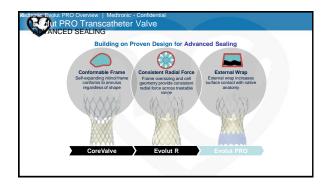


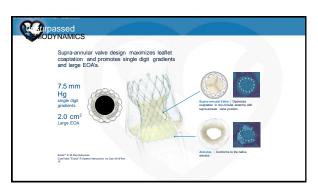


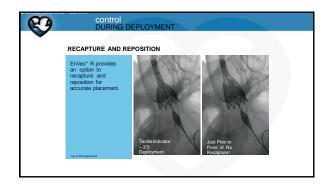




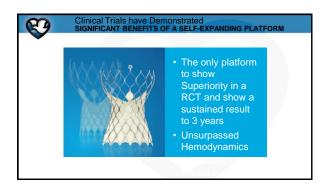


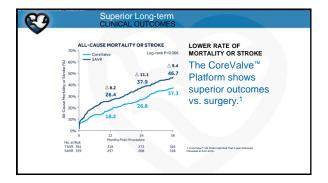


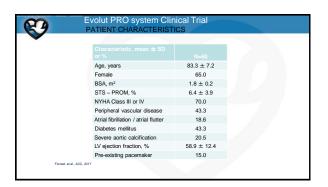


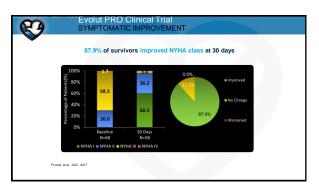


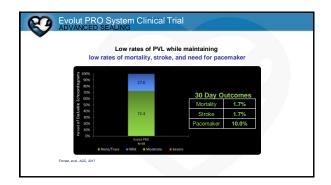
Ren Platform Performance Rolled, ACCURATE DELIVERY WITH ABILITY TO RECAPTURE	
EnVeo™ R 16Fr Equivalent DCS enables controlled 1:1 Response	
with ability to Recapture	



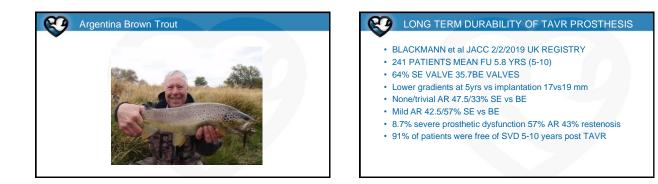








		Clinical Tri C IMPROVE		
87	7.9% of surv	ivors improve	ed NYHA class at 30 days	
100% - (%) 80% - 60% -	1.7 68.3	3.4 36.2	0.0%	
05 Length 2006 - 100 Length 2006 - 1000 L	30.0	60.3	No Change 87.9% Worsened	
	Baseline N=60 A I = NYHA II = N	30 Days N=58 YHA III <mark>=</mark> NYHA IV		
Forrest, et al., ACC, 2017				



Durability of Transcatheter and Surgical Bioprosthetic 29 Aortic valves in low risk patients

- Sondergaard et al JACC 2/2/2019
- NOTION (Nordic Aortic Valve intervention trial)SAVR/TAVR
- Moderate/severe SVD defined as >20mm Hg mean gradient or >10mm increase > 3 mos post procedure.
- · Nonstructural valve deterioration defined as moderate/severe PPM, or moderate/severe paravalvular leak
- · Bioprosthetic valve failure defined as valve related death/valve reintervention or severe hemodynamic SVD
- SVD in SAVR 24% SVD in TAVR4.8% •
- NSVD SAVR=TAVR BPV Savr 6.7 vs Tavr7.5% Structural valve failure B

29

Durability TAVR vs SAVR Sondergaard

- Conclusion that thru 6 years SVD (structural valve deterioration) was significantly greater in SAVR vs TAVR.
- · BVF (bioprosthetic valve failure) was low in both groups