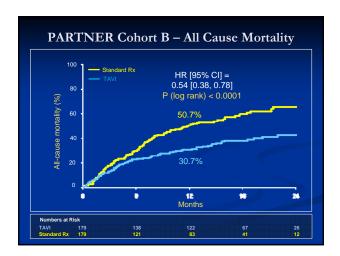
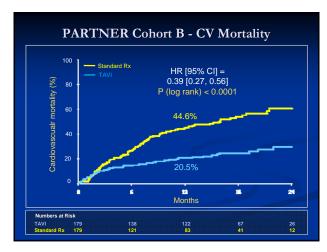
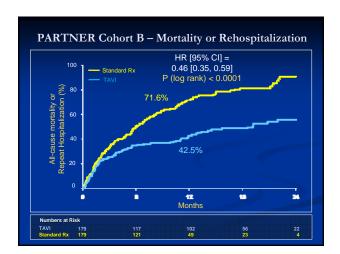
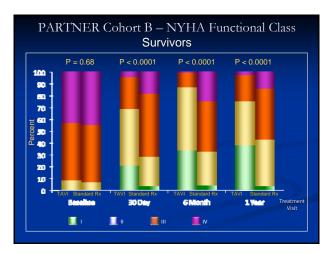


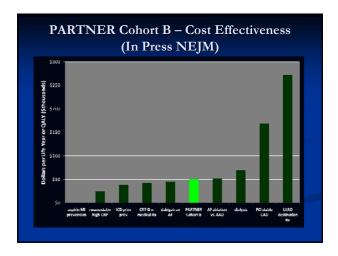
Patient Characteristics - 1					
Characteristic	TAVI n=179	Standard Rx n=179	P value		
Age - yr	83.1 ± 8.6	83.2 ± 8.3	0.95		
Male sex (%)	45.8	46.9	0.92		
STS Score	11.2 ± 5.8	12.1 ± 6.1	0.14		
Logistic EuroSCORE	26.4 ± 17.2	30.4 ± 19.1	0.04		
NYHA I or II (%)	7.8	6.1	0.68		
III or IV (%)	92.2	93.9	0.68		
CAD (%)	67.6	74.3	0.20		
Prior MI (%)	18.6	26.4	0.10		
Prior CABG (%)	37.4	45.6	0.17		
Prior PCI (%)	30.5	24.8	0.31		
Prior BAV (%)	16.2	24.4	0.09		
CVD (%)	27.4	27.5	1.00		

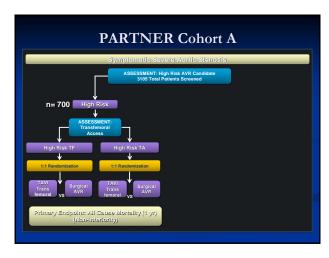




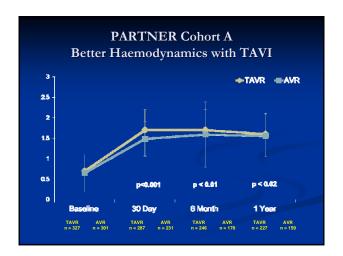


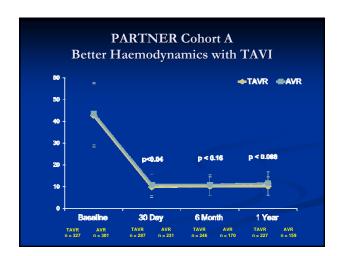


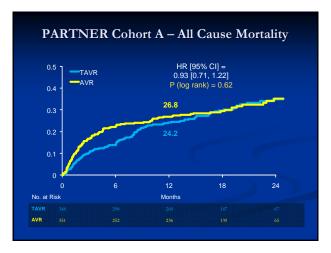


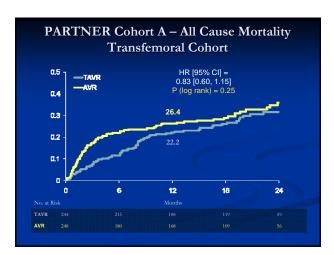


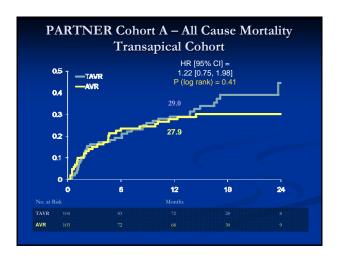
TALIED (M. 040)	A1/D (1/ 054)	
TAVR (N = 348)	******************	p-value 0.07
		0.82
11.8 ± 3.3	11.7 ± 3.5	0.61
29.3 ± 16.5	29.2 ± 15.6	0.93
5.7	6.0	0.79
94.3	94.0	
74.9	76.9	0.59
26.8	30.0	0.40
72.1	71.6	0.93
42.6	44.2	0.70
34.0	32.5	0.68
13.4	10.2	0.24
	83.6 ± 6.8 57.8 11.8 ± 3.3 29.3 ± 16.5 5.7 94.3 74.9 26.8 72.1 42.6 34.0	83.6 ± 6.8 84.5 ± 6.4 57.8 56.7 11.8 ± 3.3 11.7 ± 3.5 29.3 ± 16.5 29.2 ± 15.6 5.7 6.0 94.3 94.0 74.9 76.9 26.8 30.0 72.1 71.6 42.6 44.2 34.0 32.5

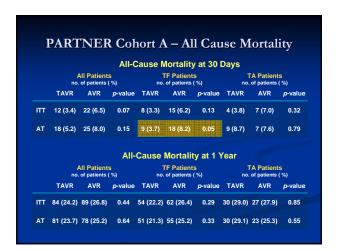




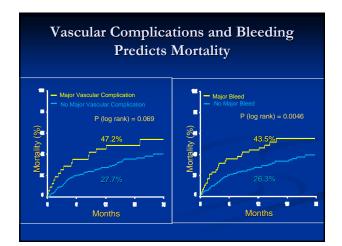




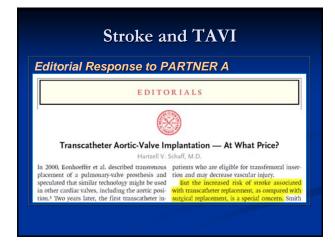


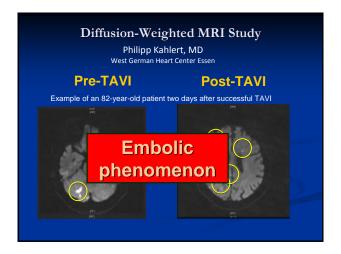


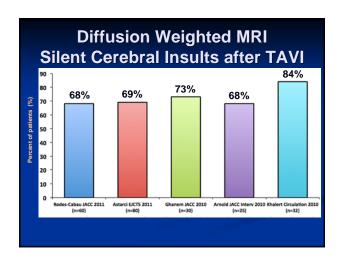


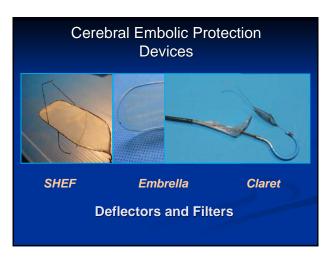


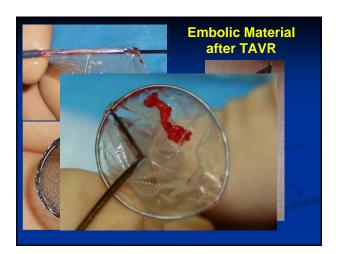


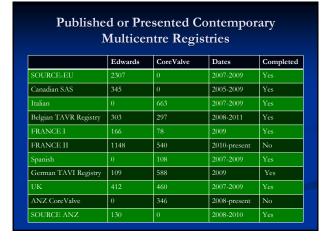










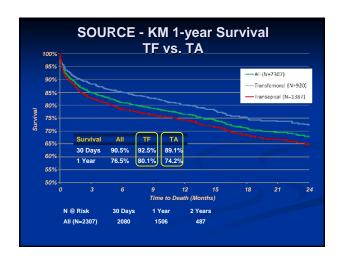


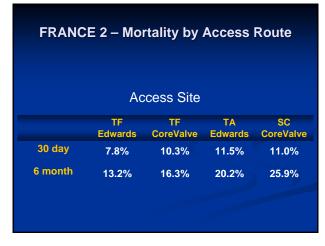
Core	/alve TAVI	in Seven Nat	tional Registri	es
C.R	uiz et al. F	Presented at I	EuroPCR 2011	
	Edwards	CoreValve	Dates	Completed
SOURCE-EU	2307	0	2007-2009	Yes
Canadian SAS	345	0	2005-2009	Yes
Italian	0	663	2007-2009	Yes
Belgian TAVR Registry	303	297	2008-2011	Yes
FRANCE I	166	78	2009	Yes
FRANCE II	1148	540	2010-present	No
Spanish	0	108	2007-2009	Yes
German TAVI Registry	109	588	2009	Yes
UK	412	460	2007-2009	Yes
ANZ CoreValve	0	346	2008-present	No

	PARTNE R B	PARTNE R A	SOURCE	Canadian	SOURCE ANZ	FRANCE 2	CoreValve Meta- analysis
N & Valve type	Edwards 179 TF	Edwards 244 TF 104 TA	Edwards 920 TF 1387 TA	Edwards 162 TF 177 TA	Edwards 130	Edwards -1145 CoreValve -540	2156 CoreValve
Age	83.1	83.6	80.1	81.8	82.8	82.5	81.6
Logistic EuroScore	26.4%	29.3%	26.1%	N/A	28.0%	22.6%	21.3%
30 day Mortality	5.0%	3.4%	9.5%	10.4%	7.7%	9.9%	6.6%
30 day Stroke	5.0%	5.5%	2.9%	2.3%	3.8%	3.8%	2.8%
1 year Mortality	30.7%	24.2%	23.5%	24%	N/A	24%	17.1%

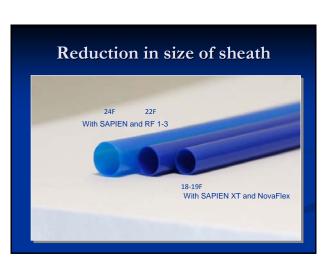
	PARTNER B	PARTNER A	SOURCE	Canadian	SOURCE ANZ	FRANCE 2	CoreValve Meta- analysis
N & Valve type	Edwards 179 TF	Edwards 244 TF 104 TA	Edwards 920 TF 1387 TA	Edwards 162 TF 177 TA	Edwards 130	Edwards -1145 CoreValve -540	2156 CoreValve
Vascular Cx	16.8%	11.0%	5.7%	13.0%	5.4%	12.5%	4.2%
Bleeding	16.2%	9.3%	3.3%	N/A	16.9%	18.4%	N/A
PPM	3.4%	3.8%	6.9%	4.9%	4.6%	12.4%	28.7%

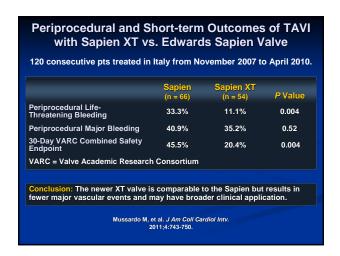
Predictors of Mortality from TAVI Registries SOURCE 1 Yr mortality in TF – Smoking, Renal failure, Logistic EuroScore, Carotid endarterectomy 1 Yr mortality in TA – Logistic Euroscore, Renal failure, Liver disease Canadian 30-day mortality – pulmonary hypertension, severe MR, need for periprocedural support Late mortality – COPD, CKD, AF, Frailty FRANCE 2 30-day mortality – Logistic euroscore, NYHA class

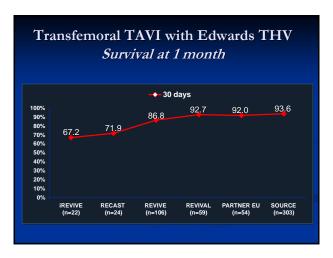




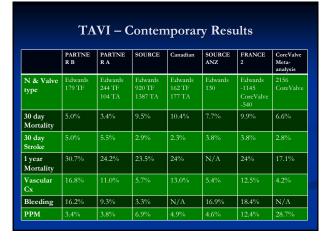




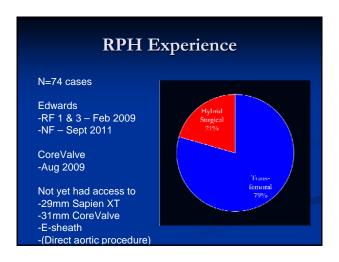




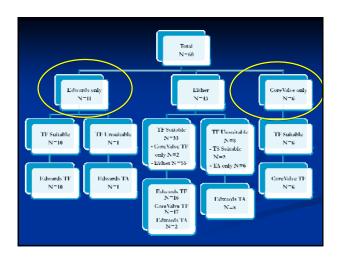


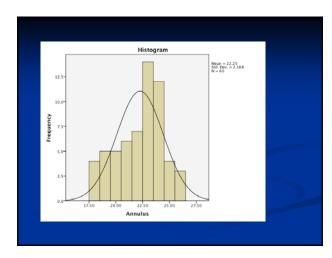


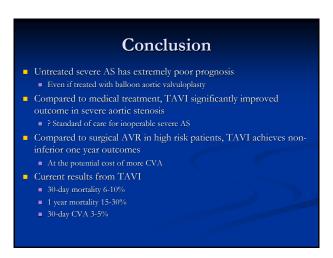
TAVI Anatomical Criteria					
VARIABLES	EDWARDS SAPIEN	COREVALVE			
Iliac / Femoral Vessels	≥6mm for 23mm valve ≥6.5mm for 26mm valve No restriction for TA	≥6mm (7mm if diabetic) Subclavian ≥7mm for TS			
Aortic annulus	18-21mm for 23mm valve 21-25mm for 26mm valve	20-23mm for 26mm valve 23-27mm for 29mm valve			
Ascending aorta size	No restriction	≤40mm for 26mm valve ≤43mm for 29mm valve			
Sinus height	≥14mm	>10mm, preferably ≥14mm			
Bulky aortic valve calcium	NO	NO			
LVH / Severe septal LVH	Preferably not (risk malposition)	Less issue, but officially not if ISW >1.7cm			
STJ / Aortic root	>30mm	>30mm			



Decision Making Annulus & ascending aorta Annulus 18-20 or Ascending Ao >40-43 – Only Edwards Annulus 25-27 – Only CoreValve Peripheral vessels Femoral vessels <6mm – need to consider L-subclavian If subclavian <7mm – direct aortic or transapical Other considerations If LIMA – avoid transubclavian If CAD possiby needing PCI in future – Edwards If existing heart block – Edwards Severe LVH / septal bulge - CoreValve







Conclusion

- Results should improve with
 - Improving technology smaller sheath sizes
 - ?Lower risk patients treated RCT undergoing (PARTNER II & SURTAVI)
- No difference in clinical outcomes between Edwards valve and CoreValve
 - Except PPM rate
- Both valves may serve complementary purposes to allow treatment of wider proportion of patients