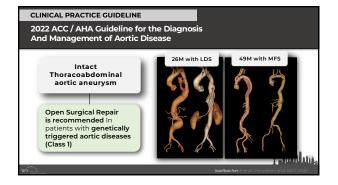
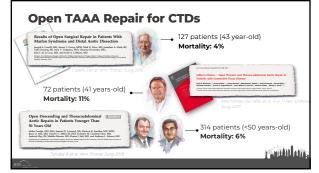
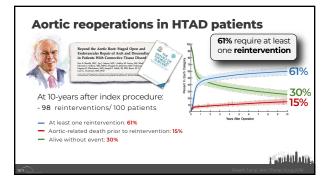
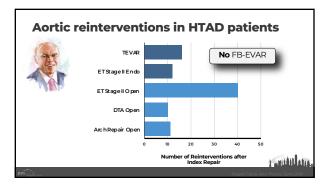
1-million





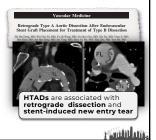






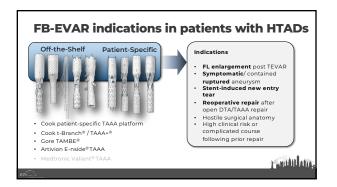
Aortic wall fragility

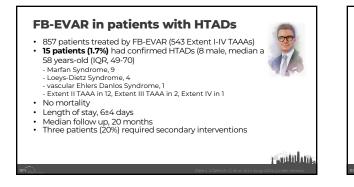
- Patients with HTADs were excluded from stent-graft pivotal trials
- Fragility of the aortic wall
- Progression of disease:
- Device radial force Aortic enlargement Stent-graft induced trauma

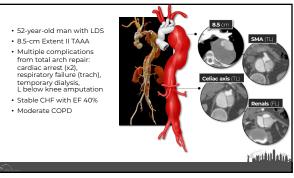


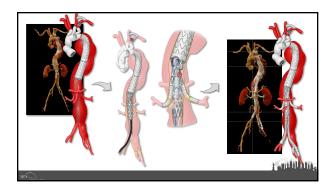
Genotype-surgical phenotype correlation No abnormality FBN 1 FNA 1 null TGFBR2 TGFBR1 SMAD3 COL3A1 null COL3A1 large amino acid substitution 1 million

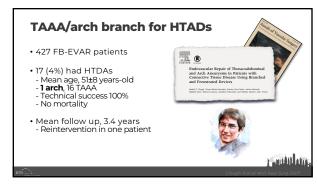
Author	n	Prior Repair	PLZ Zone 0-2	Retrograde Dissection	30-day Mortality	Type IA endoleak	Follow up (months)	Reintervention	
								Endo	Open
Akin et al (2008)	8	83%	ns	ns	0	0	63	0	38%
Nordon et al (2009)	7	100%	6 (86%)	ns	14%	0	16	17%	0
Geisbusch et al (2008)	6	50%	2 (30%)	ns	0	17%	33	15%	0
Botta et al (2009)	12	100%	ns	ns	0	8%	31	8%	8%
Marcheix et al (2008)	15	73%	2(15%)	ns	0	27%	25	20%	30%
Waterman et al (2012)	16	94%	4(25%)	ns	6%	19%	9	20%	45%
Eid-Lidt et al (2015)	10	50%	ns	ns	10%	ns	60	30%	0
Huu et al (2022)	37	13 (50%)	6 (15%)	ns	5.5%	ns	36	14%	45%
Total	69				5%	19%	32	20%	22%

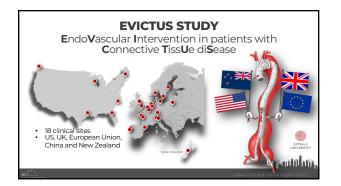


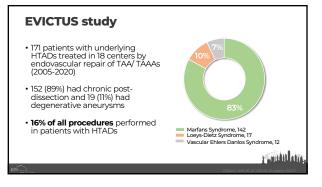








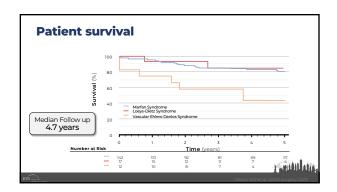




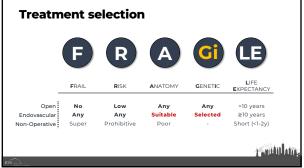
	MS n = 142	LDS n = 17	vEDS n = 12
Age (years, IQR)	49 (38-58)	53 (44-58)	40 (28-75)
Male sex	62%	53%	83%
Hypertension	56%	59%	58%
Renal impairment	11%	18%	0%
Prior open aortic repair	81%	88%	50%
Dissection	90%	88%	75%
Degenerative aneurysm	10%	12%	25%
Emergency indication	40%	24%	75%

	MS n = 142	LDS n = 17	vEDS n = 12
Proximal landing zone in surgical graft	56%	59 %	42%
Distal landing zone in surgical graft	15%	6%	8%
FBEVAR	17 %	47 %	34%
Parallel grafts	3%	O%	0%
Debranching	31%	12%	17%
30-day or in-hospital mortality: 3% Primary technical success: 98%	 Stroke: 6 Spinal co Renal im 	% ord injury: 0.5' ipairment: 1.5	%

	MS n = 142	LDS n = 17	vEDS n = 12
Any secondary procedure	54%	59 %	42%
Proximal endovascular extension	5%	0%	0%
Distal endovascular extension	19%	18%	0%
Branch stenting	3%	12%	17%
Embolization	15%	24%	25%
Repair of different segment	8%	18%	0%
Conversion to open repair	9 %	6%	0%
Repair of different segment	17%%	18%	0%







Conclusion

- Open surgical repair remains the gold standard for CTD patients
- FB-EVAR experience is limited, but this should be considered in high risk patients and those who need redo TAAA repair
- The ideal patient has sealing zones based on open surgical grafts
- Preliminary experience shows high technical success and low mortality
- · Limitations remain access, cost, reinterventions and need for surveillance

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