

VEITH SYMPOSIUM
Connecting The Vascular Community

长海医院血管外科
Vascular Surgery Dep., Changhai Hospital

Novel Tri-Branch Endograft for Repair of Arch Aneurysms and Dissections: What Makes It Different and Initial Clinical Results

Qingsheng Lu

Division of vascular surgery, Changhai Hospital
National key department of China
Clinical center of vascular disease, Shanghai



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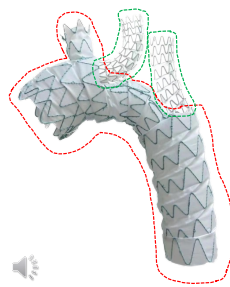
Disclosures

- Co-Inventor of Castor Single Branched Stent-graft
- Cooperation with MicroPort

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Triple-branched thoracic stent-graft

Total endo triple branches revascularization



Mainbody: integrated IA branch+2 inner tunnels

Flexible branch stent for LCCA&LSA


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Triple-branched stent-graft for aortic arch Aneurysm with Dissection

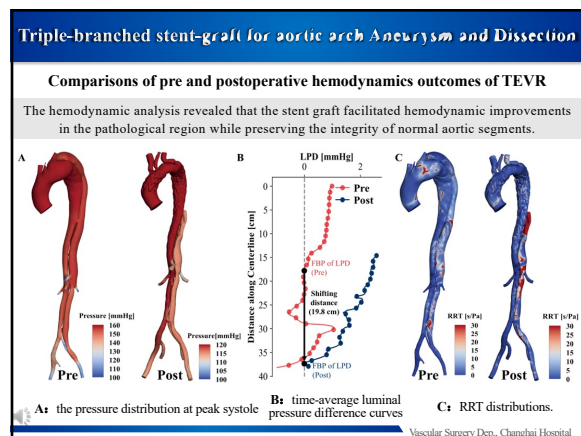
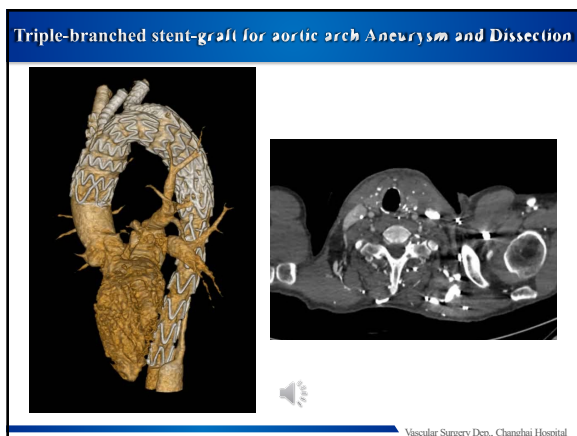
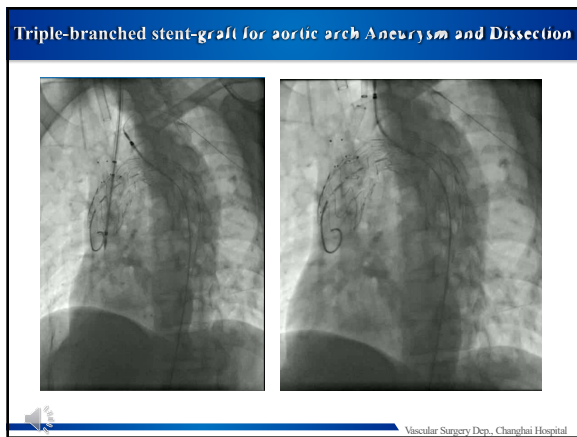
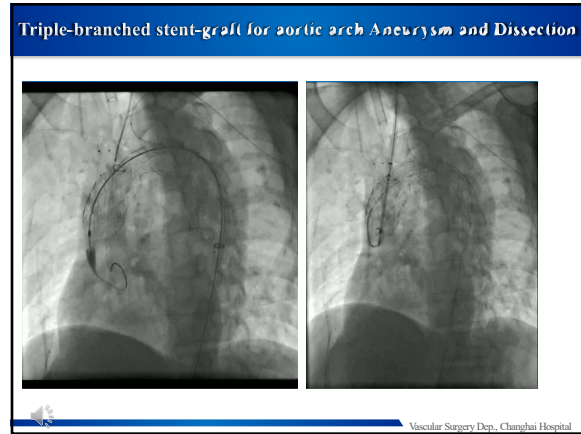
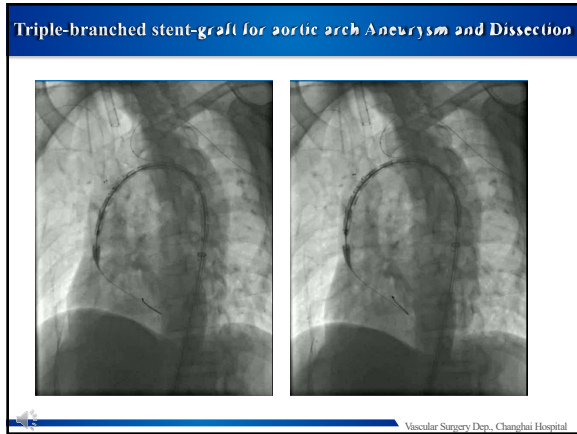


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Triple-branched stent-graft for aortic arch Aneurysm and Dissection



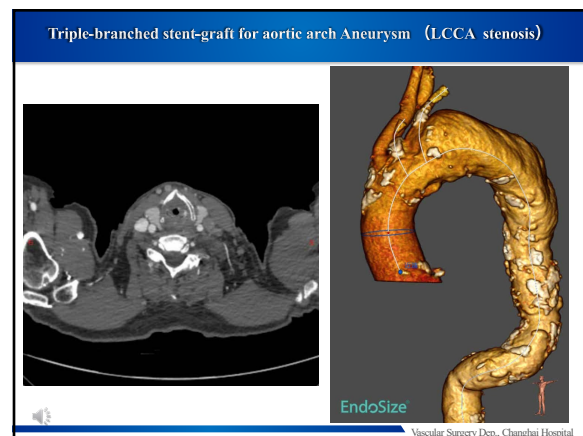
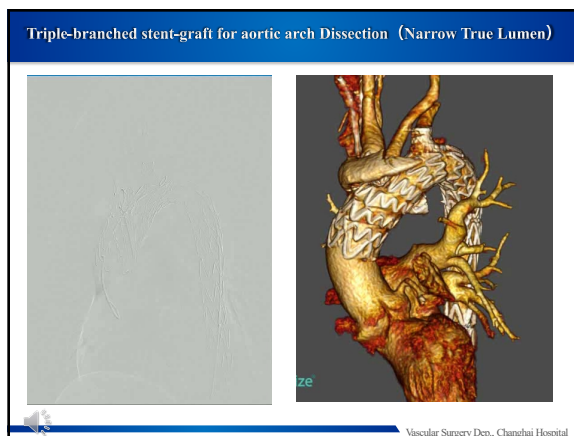
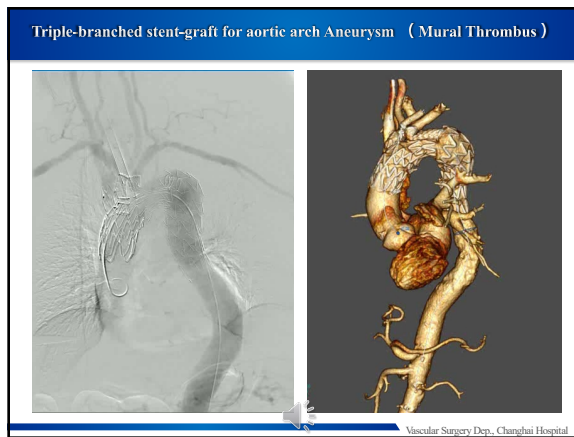
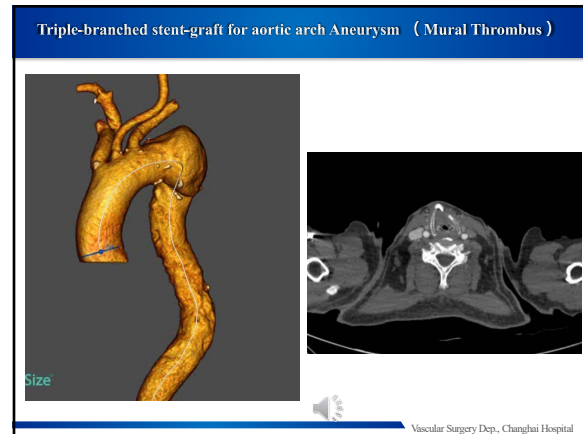
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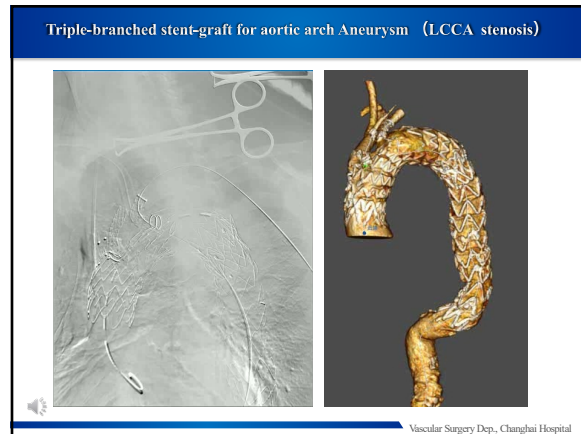
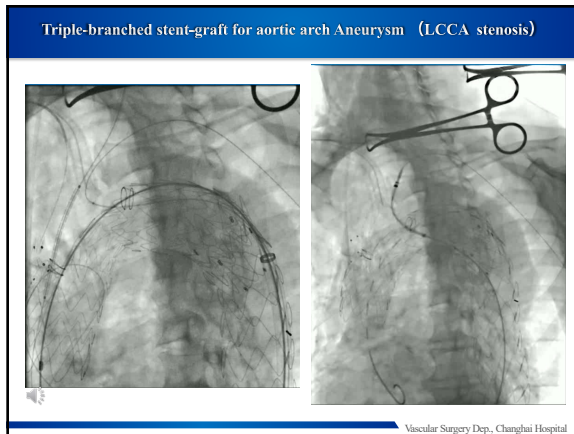


First-In-Human study from Changhai Hospital

Patient characteristics		Follow-up outcomes of the patients	
Items	No. (%) / Mean ± SD	Items	No. (%) / Mean ± SD
Diagnosis		30-day outcomes	
TAD	4 (36.36%)	MACEs	0 (0%)
TAA	7 (63.64)	All-cause mortality	0 (0%)
Age (years)	63.24 ± 9.8	6-month follow-up outcomes	
Sex (male)	11 (100%)	Procedure-related death	0 (0%)
Hypertension	10 (90.91%)	Neurological complications	0 (0%)
Diabetes	6 (54.55%)	Branch vessel patency	11 (100%)
Coronary heart disease	2 (18.18%)	Secondary interventions	0 (0%)
Chronic renal insufficiency	0 (0%)	Endoleak	1 (9.09%)
COPD	0 (0%)	12-month follow-up outcomes	
History of stroke	1 (9.09%)	Procedure-related death	0 (0%)
Previous endovascular repair	1 (9.09%)	Neurological complications	0 (0%)
Smoking	6 (54.55%)	Branch vessel patency	11 (100%)
		Secondary interventions	0 (0%)
		Endoleak	1 (9.09%)

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Conclusion and Future

- ✓ The unique design of unibody outer branch combined with inner branch makes more stable to avoid potential endoleaks and reduce the incidence of stroke. And the stent graft facilitated hemodynamic improvements in the pathological region while preserving the integrity of normal aortic segments.
- ✓ The special design of stent-graft and deploy method can enable us to challenge some difficult cases.
- ✓ A multicenter clinic trial will be launched early next year.

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