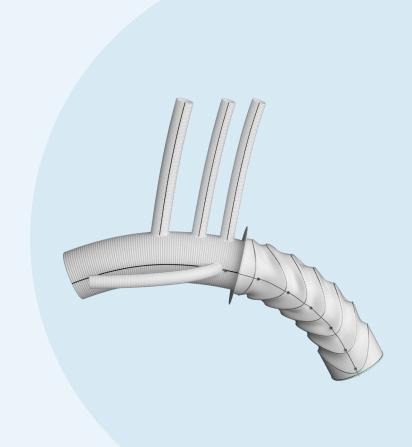




thoraflex[™] **hybrid**

Conforming Arch Surgery to the Gold Standard

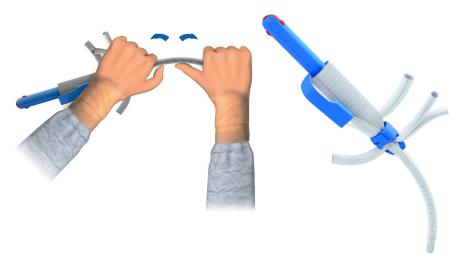


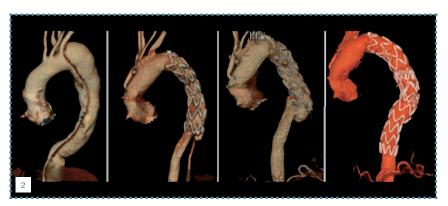






Flexible by Design, Navigating the Curve





Z-Stent FET - Angio-CT 3D reconstruction of type B aortic dissection before surgery (A), after FET procedure (B), dSINE detection (C) and result after TEVAR (D).

CT, computed tomography; 3D, three-dimensional; FET, frozen elephant trunk; dSINE, distal stent graft-induced new entry; TEVAR, thoracic endovascular aortic repair.²

**Thanks to the malleable shaft, the stented part can be shaped to conform to the isthmus and descending aorta anatomy. This makes the device less traumatic on the descending aortic wall and easier to introduce into the aorta. **1

Flexible Ring Stent Design

- Reduces radial force on the aortic wall ³
- Minimizes risk of intimal injury ³



^{1.} Ruggieri et al. "Multibranched hybrid device for frozen elephant trunk: what does it change?" The Journal of Thoracic & Cardiovascular Surgery, 2015; 15(1), 253-255.

^{2.} Murana et al. "Distal stent graft-induced new entry (dSINE) after frozen elephant trunk: a scoping review." Cardiovascular Diagnosis & Therapy, 2023; 13(2), 408-417.

Ma et al. "Ober stented crafts for frozen elephant trunk technique: Technique: Technique aspects and current outcomes." Aorta. 2015; 3(4), 122-135.



Versatility in Treatment, Solutions for Each Patient



Island/En Bloc Re-implantation of SAT*





7one 3 Standard technique





Zone 2 Distal LSA** anastomosis

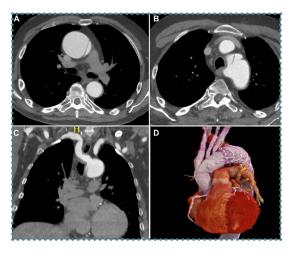




Zone 0/1 Branch first technique



*The hybrid construction of the device provides flexibility in planning further aortic reconstruction using either endovascular or open techniques. Unlike other methods of hybrid and total endovascular arch repair, this technique appears to carry a low stroke risk. 99 5



*The use of a specifically designed multibranched hybrid FET graft both simplifies the procedure and allows more flexibility in dealing with challenging aortic arch anatomy, such as in our patient with a KD and an ARSA 99 4



WATCH ON VUMEDI LSA Proximal Technique with Thoraflex™ Hybrid

Besa et al. "Hybrid frozen elephant trunk for single-stage Kommerell Diverticulum and type A dissection." Annals of Thoracic Surgery Short Reports, 2023; 1, 285-288 5. Landau et al. "Thoraflex Hybrid endovascular frozen elephant trunk device for treatment of complex aortic arch disease." Journal of Vascular Surgery, 2017; Abstract e68, *SAT = Supra-Aortic Trunk



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