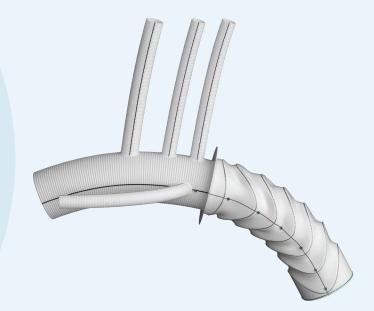


thoraflex[™] hybrid

Conforming Arch Surgery to the Gold Standard





USA

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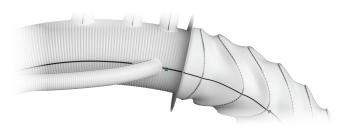
Gold Standard, Safety in the Arch

Multiple configurations to provide optimal outcomes for broad patient population

******Because of the **unique design of the Thoraflex Hybrid graft**, reperfusion of the lower body can be started immediately after completion of the distal anastomosis. This may help in **reducing HCA duration and the risk for spinal cord injury.****²

INDIVIDUAL SUPRA-AORTIC BRANCHES

- Enables independent replacement of dissected or diseased vessels
- ▶ Improved visualisation in case of suture line bleeding ³



SIDE PERFUSION BRANCH

▶ Facilitates organ perfusion and rewarming ³



WATCH ON VUMEDI One Year Results from the Thoraflex Hybrid US IDE Trial: Breakthrough

REDUCED MORTALITY

"The FET technique does allow some total aortic arch repairs to become a single-stage procedure and thus reduce the potential mortality associated with two-stage procedures." ⁴



Figure 1: Separate branch technique. (A)Preoperative 3D-reconstructed CT-scan. (B) Postoperative 3D-reconstructed CT-scan. Supracoronary ascending aorta and total arch repair with 4-branch graft hybrid prosthesis as FET. The left subclavian artery is revascularised using an extra-anatomic transpleural dacron graft. CT, computed tomography: FET, frozen elephant trunk.³

- 1. Results from Thoraflex Hybrid Post-Market Study (THOR) NCT03414866 (unpublished).
- 2. Shrestha, M et al. 2016. Total aortic arch replacement with a novel 4-branched frozen elephant trunk prosthesis: single-center results of the first 100 patients. The Journal of thoracic and cardiovascular surgery, 152(1), pp.148-159.
- 3. Smith, T and Heijmen, R.H, 2023. Is a four-branched prosthesis advantageous over a straight prosthesis in Frozen elephant trunk surgery?. Cardiovascular Diagnosis and Therapy, 13(1), pp. 61-66.



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Gold Standard, The Effective Solution

Ring Stent design to accommodate anatomic conformability ⁵ with positive remodelling in both elective and acute settings ²

⁶⁶Total aortic arch replacement with a Thoraflex Hybrid prosthesis is the most effective operative technique for type A aortic dissection.^{99 6}

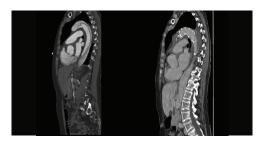


Figure 2: Preoperative and postoperative computed tomography angiographies showing a type A acute aortic dissection case with its subsequent (final) treatment with a Thoraflex hybrid graft.⁷

^{••}It causes rapid thrombosis of the false lumen and promotes a beneficial remodeling of the distal aorta.⁹⁹⁶

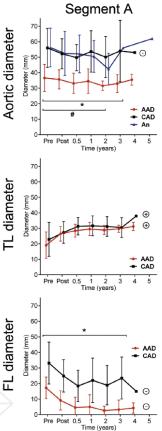
Global regulatory approvals including

EU (2012), US (2022), Japan (2023)

Thoraflex Hybrid







- 4. Leeuwerke, S.J et al. 2022. Frozen Elephant Trunk Completion: Endovascular Extension in The Distal Thoracic Aorta. Surgical technology international, 40.
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