

MOTHER

MEDTRONIC
THORACIC
ENDOVASCULAR
REGISTRY

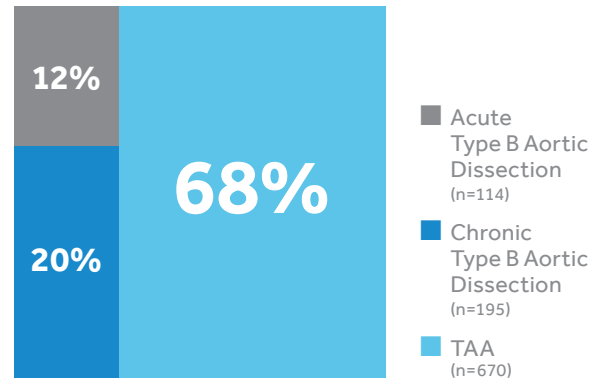
Investigation of Stent Grafts in the Treatment of Acute and Chronic Aortic Thoracic Pathologies

TEVAR OFFERS MIDTERM PROTECTION from Aortic-Related Mortality in 1,000+ Patient Analysis

SOURCES OF INFORMATION THAT COMPRISED THE MOTHER DATABASE			
Trial	No. Patients	Device Evaluated	Follow-Up
VALOR	359	Talent	5Y
VALOR II	160	Valiant	5Y
Valiant Captivia Registry	68	Valiant Captivia	3Y
VIRTUE	100	Valiant Xcelerant	3Y
INSTEAD	100	Talent	5Y
St. George's Vascular Institute	223	Talent/Valiant	Variable

Source: Information from studies conducted in the U.S. and the EU. The Talent™ thoracic stent graft is no longer commercially available in the U.S.

MOTHER DATABASE: Patients Treated, Stratified According to Presenting Pathology



STUDY CONCLUSION

- Acute and chronic aortic dissection patients have low rates of aortic-related mortality in the midterm after TEVAR*
- TEVAR offers excellent midterm protection from aortic-related mortality for both TAA and type B aortic dissection
- Aortic-related mortality markedly plateaus following the peri-operative phase, suggesting that TEVAR may prevent aortic dissection and rupture

* Parker JD, Gollidge J. Outcome of endovascular treatment of acute type B aortic dissection. *Ann Thorac Surg.* 2008;86:1707–1712. Trimarchi S, Nienaber CA, Rampoldi V, Myrmel T, Suzuki T, Bossone E, Tolva V, Deeb MG, Upchurch GR Jr, Cooper JV, Fang J, Isselbacher EM, Sundt TM III, Eagle KA; IRAD Investigators. Role and results of surgery in acute type B aortic dissection: insights from the International Registry of Acute Aortic Dissection (IRAD). *Circulation.* 2006;114:I357–I364. Walsh SR, Tang TY, Sadat U, et al. Endovascular stenting versus open surgery for thoracic aortic disease: systematic review and meta-analysis of perioperative results. *J Vasc Surg.* 2008;47:1094–1098.e3. Source: Patterson, B. et. al. *Circulation.* 2013;127:24–32

TEVAR PREVENTS AORTIC-RELATED MORTALITY ACROSS ALL PATHOLOGIES: MIDTERM OUTCOMES

	Freedom from Aortic- Related Mortality† p<0.001	Freedom from Reintervention†† p<0.001
Acute Type B Dissection	85%	46%
Chronic Type B Dissection	96%	71%
TAA	93%	84%

†Patients at risk at 6 Years: Thoracic aortic aneurysm=125, Type B chronic dissection=14, Type B acute dissection=6.

††Patients at risk at 6 Years: Thoracic aortic aneurysm=111, Type B chronic dissection=12, Type B acute dissection=3.

Majority of deaths after TEVAR for Thoracic aortic aneurysm were due to non-aortic causes, indicative of co-morbidities.

PURPOSE

- To characterize the differences in early and midterm outcomes post TEVAR in patients with thoracic aneurysms, chronic Type B aortic dissection and acute Type B aortic dissection

STUDY DESIGN

- Retrospective analysis of 5 prospective, fully monitored clinical trials, plus monitored and independently adjudicated institutional data from a single UK center that used either the Talent™ thoracic stent graft or the Valiant™ stent graft over an 8-year period

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