

Stroke Happens PROTECTION Works

A growing body of clinical evidence provides a strong foundation for the benefits of Cerebral Embolic Protection and the SENTINEL Cerebral Protection System



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Boston Scientific India Pvt. Ltd,
Bestech Business Tower,
3rd Floor, Sector 48, Sohna Road, Gurgaon – 122018
www.bostonscientific.com
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customer care.india@bsci.com

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Stroke is a Devastating Event

All-Stroke occurs on average 4% of the time across contemporary studies, independent of center experience, operator volume, or patient risk score.¹⁻⁵

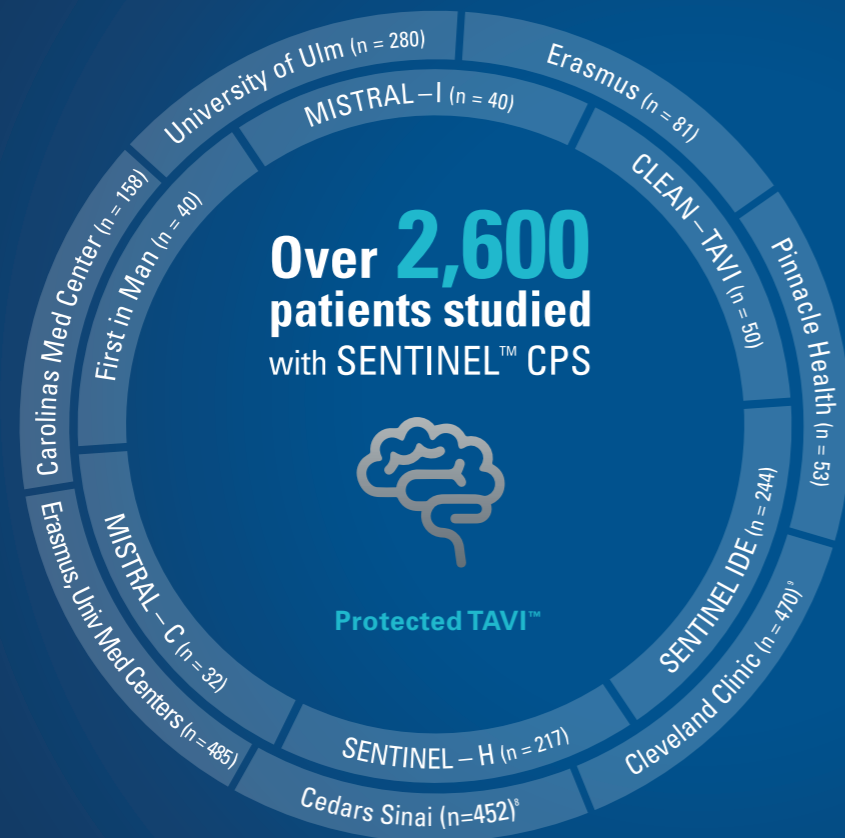
1/10

Post-procedure TAVI patients show overt signs of ischemic brain injury⁶

6x

Increase in stroke-related 30-day mortality, post TAVI⁷

1. Manoharan G, et al., *J Am Coll Cardiol Intv* 2015; 8:1359-67. 2. Wendler O, et al., *Circulation* 2017; 135: 1123-1132. 3. Seeger J, et al., *Eur Heart J*. 2018 Dec 24. doi: 10.1093/eurheartj/ehy847. 4. Haussig S et al., *JAMA* 2016; 316:592-601. 5. Kapadia S, Kodali S, Makkar R, et al., Protection against cerebral embolism during transcatheter aortic valve implantation. *JACC*. 2017; 69(4): 367-377. 6. SENTINEL IDE Trial. Data presented at SENTINEL Advisory Panel, February 23, 2017. 7. The CENTER Collaboration. N = 10982 Patients undergoing TF-TAVI with Edwards[™] balloon-expandable valves or Medtronic[™] self-expanding valves between 2007-2018 from 3 national registries and 7 local registries or prospective clinical trials.



SENTINEL Cerebral Protection System is Investigated

SENTINEL CPS leads the way in clinical evidence for Cerebral Embolic Protection for **over 2,600 patients** across a randomized trial and multiple registries.

8. CRT 2019 Snapshots from "Real World" High Volume Single-Center Experiences with SENTINEL Cerebral Embolic Protection. R. Makkar.
9. CRT 2019 Why Embolic Protection Should Standard in TAVR and how to Incorporate it into a Busy Clinical Practice. S. Kapadia.

SENTINEL™ Cerebral Protection System Performs

University of Ulm

The largest propensity matched meta-analysis comparison of All-Stroke and mortality.¹⁰

66% **REDUCTION**
in All-cause Mortality and Stroke*

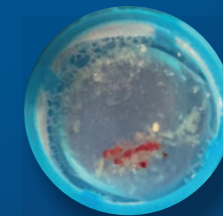
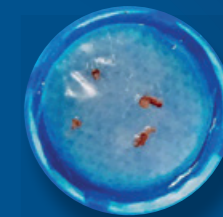
65% **REDUCTION**
in All-procedural Stroke†

84% **REDUCTION**
in Disabling Stroke‡

* $P = 0.0013$; with SENTINEL CPS (n = 11/533), without SENTINEL CPS (n = 32/533). † $P = 0.0028$; with SENTINEL CPS (n = 10/533), without SENTINEL CPS (n = 29/533). ‡ $P = 0.0045$; with SENTINEL CPS (n = 11/533), without SENTINEL CPS (n = 32/533). **10.** Seeger J., Snapshots from Real World High Volume Single Center Experiences with Sentinel Cerebral Embolic Protection During TAVI, University of Ulm, presented at TVT 2018.

In the SENTINEL IDE Trial

SENTINEL Captured Debris
in **99%** of Procedures⁶



6. SENTINEL IDE Trial. Data presented at SENTINEL Advisory Panel, February 23, 2017.