

SENTINEL[®] **Cerebral Protection System**

Protected TAVR[™] with SENTINEL CPS gives you the power to reduce stroke.

Clinical Highlights

The SENTINEL Pivotal US IDE demonstrated a significant 63% reduction in neurologist-adjudicated peri-procedural (< 72 hours) stroke when SENTINEL CPS was used



SENTINEL US IDE - Freedom From Stroke²

With SENTINEL CPS



1. SENTINEL US IDE trial data presented at the SENTINEL CPS FDA Advisory Panel, February 23, 2017 * Fisher Exact Test

2. Kaplan-Meier Curve data on file from the SENTINEL US IDE

-P = 0.054

1.00

0.95



Independent Single Center Experiences

Several independent centers demonstrated a consistent reduction in clinically assessed peri-procedural neurological

3. Seeger J, et al. JACC Interv. 2017 Nov 27;10(22):2297-2303

4. Makkar R, presented at CRT 2018

events with SENTINEL CPS^{3,4}

5. Van Mieghem N, et al. presented at JIM 2018 and CRT 2018



146

55

90



Debris Matters

The SENTINEL Cerebral Protection System was able to capture and remove embolic debris in 99% of TAVR patients, regardless of valve type and patient risk profile¹



1 in 4 Patients had an average of 25 particles $\geq 0.5 \text{ mm}^1$



Capture of embolic debris is universal regardless of transcatheter heart valve type⁶





A total of 53% of patients had debris particles larger than 1 mm⁶

O Histopathology and histomorphometry measured particle size, count and area of debris captured in 492 filters from 246 patients⁶

6. Schmidt T. et al. 2018. JACC Cardiovasc Intv. 11(13):1262-1273

Embolic debris was captured with SENTINEL CPS regardless of surgical risk score⁷





Patients from the SENTINEL and SENTINEL H studies with STS score and debris collected, n = 129 The data above did not reach statistical significance, per Fisher's Exact Test 7. Data on file for the SENTINEL US IDE and SENTINEL H trials

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SENTINEL Carebral Protection System (CPS)

NDICATIONS FOR USE. The Sentinel Carebral Protection System is indicated for use as an embolic protection device to capture and remove thrombus/debris while performing transcatheter aortic valve replacement procedures. The
diameters of the arteneas the site of filter placement should be between 9 – 15 mm for the brachiocephalic and 65 – 10 mm in the left common cardid. CONTRAINDICATIONS, 0 Do rot use in patients with a known hypersensitivity to nickel-titainum. Do not use in vessels with excessive tortucity, 0 Do rot use in patients and the active 2 mon to use in patients with a comparations. The safety and effectiveness 5.70% in titter the left common cardid artery of the hardiocephalic and exp. Do not use in patients with a comparations. The safety and effectiveness 5.70% in titter the left common cardid artery of the hardiocephalic and uses size on warmings, and preacutions need throughout these instructions. Failure to do some yresult in complications. Plefer to the instructions for use updated with any interventional diverses to be used in conjunction
with the Sentinel System for their intended uses, sizing, varmings, and preacutions need to regulate antipitately-targe should be administered gree and pass-procedure in accomplane with standard metical paratics. Plefer to the
introduct in of the Sentinel System, with use resistance may lead to roduci from a damaged package. Never advance or withdraw the Sentinel System without prover fluores scoip used for the satisface of the regulate and the patient to excellent or colusion of the radial or trachial attray the some ment of the Sentinel System, with such resistance movement of the radial or trachial astrop the some and comprise to device performance. Minimize movement of the Sentinel System with a provement of the Sentinel System in placement and senter as used and or device anage. Po not use in patients within a providow with the some sentex withous and compr



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