

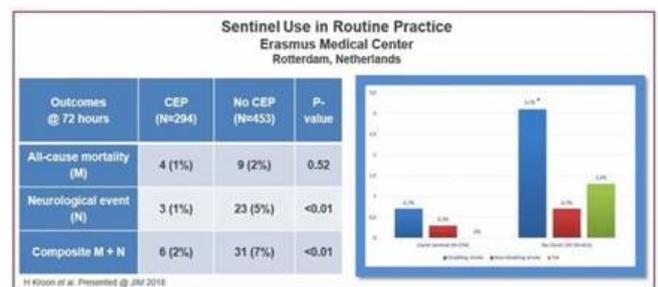
Datum: April 2018

### Concerned about the risk of stroke during TAVR?

#### Real-World Outcomes Continue to Highlight the Clinical Benefit of Cerebral Embolic Protection

Nicolas van Mieghem MD PhD from Erasmus Medical Center, who presented on 'Neurological Events in TAVR':

- Debris size is unpredictable but ubiquitous.
- Data from almost 750 TAVI patients in Rotterdam that demonstrates an 80% ( $p < 0.01$ ) reduction in clinical neurological events in the first three days after the procedure when Sentinel is used routinely.
- "Almost every single patient after TAVR will have cerebral brain lesions and this brain injury may haunt the patient down the road."



#### LBT-3 Debris Heterogeneity Across Different Valve Types Captured by a Cerebral Protection System During TAVR

Tobias Schmidt MD Asklepios Hospital in Hamburg, Germany:

- 492 filters from 246 patients.
- 53% of patients had particles greater than 1 mm in size which can potentially cause blockage of the middle cerebral artery in the brain.
- Ubiquitous debris capture regardless of transcatheter valve type. Importantly, of the captured debris.

Click [here](#) for a link to the abstract

#### Safety and efficacy of cerebral protection devices in transcatheter aortic valve replacement: A clinical end-points meta-analysis

Divyanshu Mohanane et al Department of Cardiovascular Medicine, Cleveland Clinic, OH:

- 1225 patients for which 570 underwent TAVR with CPD.
- Risk of stroke within the first week of TAVR was significantly reduced in the CPD group [0.56 (95% CI 0.33-0.96)] and was not associated with an increase in peri-procedural adverse events.
- Stroke events at one week are overwhelmingly procedural in nature and therefore the reduction in stroke at these time points validates the efficacy of CPDs to protect the brain.

Click [here](#) for a link to the paper

#### Debris Matters!

Click [here](#) to view our debris image library.



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