Addressing Unmet Clinical Needs With A New Generation TEVAR Device: Practical Application of the Valiant Navion

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Disclosure

Speaker name:

I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s)

- [ ] I do not have any potential conflict of interest
Descending Opportunities To Innovate In The Thoracic Aorta Are Significant

Thoracic aortic disease represents a significant opportunity to serve patients

ANEURYSM

60%

40%

ANEURYSM

Arch

Ascending

DISSECTION

67%

33%
Thoracic aortic disease represents a significant opportunity to serve patients.

Historically, TEVAR devices have been designed for aneurysmal disease.
Opportunities To Innovate In The Thoracic Aorta Are Significant

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We need:
- tailored proximal configurations,
- lower profile devices,
- enhanced conformability and navigability,
- better graft compliance with broader sizing options.
Valiant Navion is a *single* TEVAR System for all lesions of the Descending Thoracic Aorta.
Valiant Navion FreeFlo and CoveredSeal configuration options

- Longer stent graft lengths up to 225 mm
- Shorter nose cone
- Lower crossing profile delivery system
- Accurate distal deployment

Ext. Iliacs <6mm and Com. Iliacs heavily calcified
Type B Aortic Dissection And IMH (Fragile Aortic Pathologies)

- Valiant Navion CoveredSeal configuration
  - ≥ 2.5 cm proximal landing zone

- Greater tapering of 5 and 6 mm

- Apposition and Seal
  - “W” stent allows for graft material support between internal stents to enhance apposition and seal

- Infolding resistance
  - “W” stent on outside aids in vessel apposition

Fragility of the aortic wall is risk factor for stent graft induced new entry tear

“A tapered stent graft should be preferred for the majority of patients with dissection”


6 months F-UP
Type B Aortic Dissection And IMH

☑ “Soft touch” for decreased vessel trauma

CoveredSeal’s proximal stent is fully enclosed within the graft

Tip capture mechanism

Lower radial pressure

Dissection Oversizing

- Valiant Navion Free Flo
- Valiant Navion Covered Seal
- Valiant Captivia Free Flo

Data file on Medtronic
When I Use The CoveredSeal Configuration In My Practice

Pathology-specific (fragile aortas) where having no exposed metal might be preferred

- Dissection
- IMH

Anatomical situations

- FreeFlo might land underneath supra-aortic vessel; bovine arch
- When you need to build from bottom-up
Blunt Traumatic Aortic Injury (BTAI)

- Smaller diameter stent graft size option: 20mm
- Lower crossing profile delivery system
- Shorter nose cone
- New deployment technique
- Option of no exposed proximal stent

Deliver to target
Deploy at target
Conclusions

- The simple 3 steps deployment sequence of the Valiant Navion system meets the need of reduced manipulation during TEVAR (operator friendly)
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- The unique CoveredSeal configuration allows for better customization of treatment for different anatomical scenarios and pathologies.
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• The unique CoveredSeal configuration allows for better customization of treatment for different anatomical scenarios and pathologies

• Post Market Registry data to be collected on fragile aorta patients, TBAD, IMH, etc., to better understand outcomes regarding these complex patient populations
Conclusions

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• The unique CoveredSeal configuration allows for better customization of treatment for different anatomical scenarios and pathologies

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• The Navion platform represents an advancement in TEVAR therapy and device design and that allows physicians to treat more patients safely
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