## FEops HEARTguide™ **Case Report: TAVI**

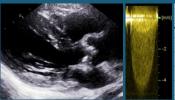
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An 87-year-old female patient with a history of arterial hypertension presents with severe symptomatic (NYHA Class II) aortic stenosis

### Challenge

- 1) TAVI CT demonstrated Sievers Type 1 BAV at risk for paravalvular regurgitation if transcatheter heart valve not correctly sized
- Left bundle branch block at risk for further conduction disturbance after TAVI

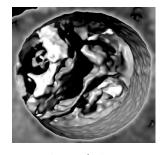






#### Solution

FEops HEARTguide's patient-specific computer simulations allow assessing the impact of different TAVI sizing and positioning strategies on predicted potential PVL& disturbances.

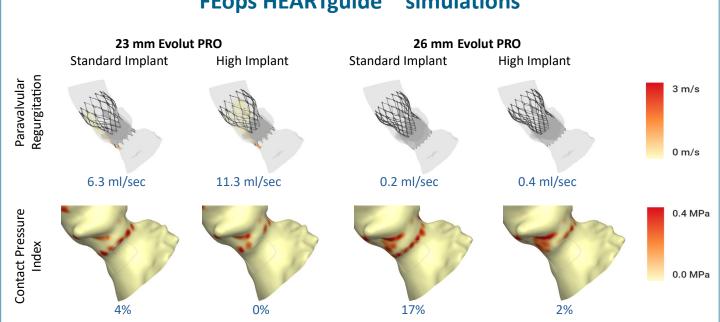




CT rendering

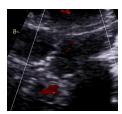
Computer model

# **FEops HEARTguide<sup>™</sup> simulations**



#### Result

**FEops** the support of HEARTguide simulations, a 26 mm Evolut PRO transcatheter heart valve was implanted at a high implant depth. Following TAVI the patient had trivial paravalvular regurgitation and no new conduction disturbance.





"FEops HEARTguide gives our team increased confidence to perform TAVI in the most challenging of aortic valve anatomies."

- Dr Cameron Dowling