

Mind Your Stent: Managing Ostial Right Coronary Artery Stent Protrusion Before TAVR

Ahmed Hassanin, MD, MPH, Karim Al-Azizi, MD

The Heart Hospital Plano

Baylor Scott & White

Dallas

Disclosure of Financial Relationships

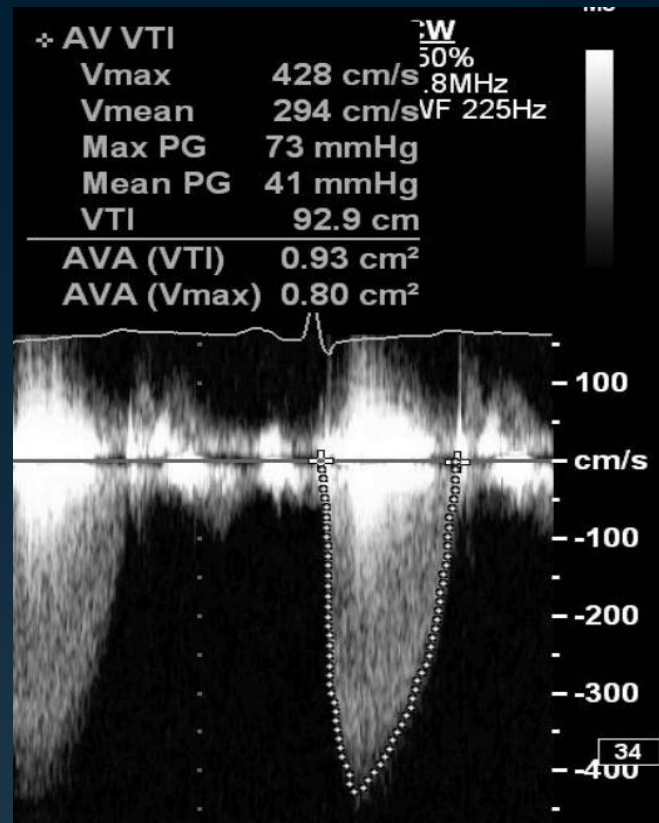
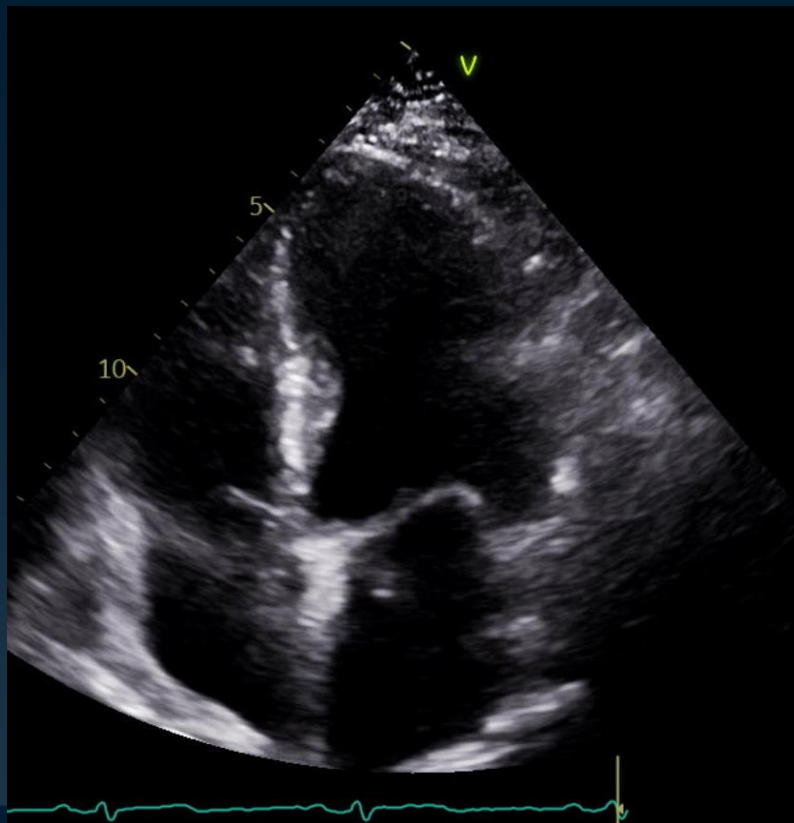
I, [Ahmed Hassanin] DO NOT have any financial relationships to disclose.

Faculty disclosure information can be found on the app

History of Present Illness

- 68-year old man with history of:
 - CAD s/p distal RCA PCI in 2018
 - Moderate AS diagnosed 1-year ago
- Seen in clinic for new-onset chest pain and dyspnea on exertion x 1 month.
- Home meds: Clopidogrel 75, Lisinopril – HCTZ 20-12.5, Metoprolol succ 25, Rosuvastatin 40

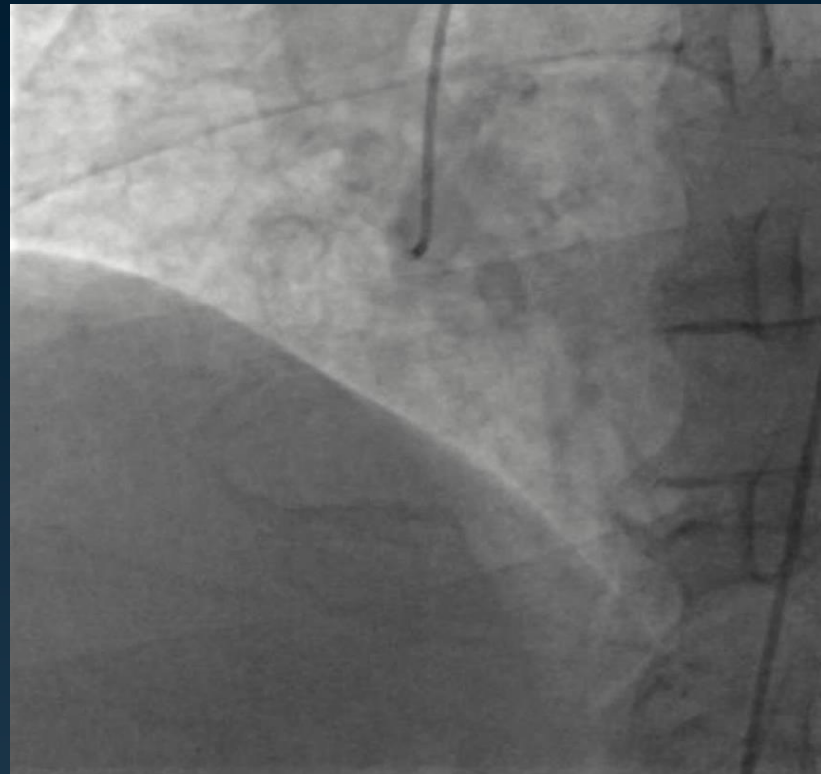
Transthoracic echo



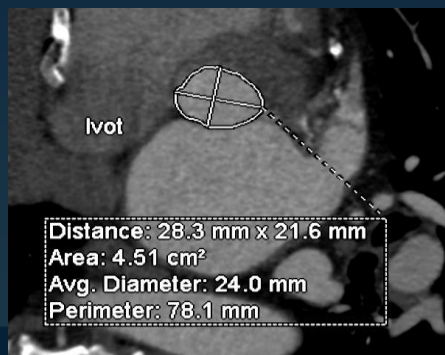
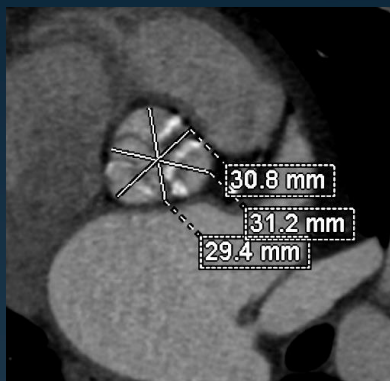
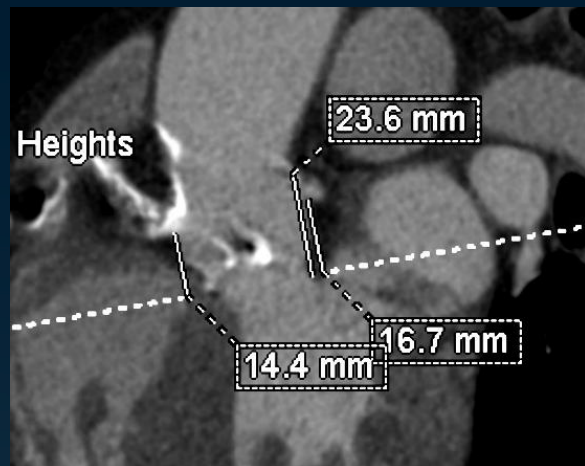
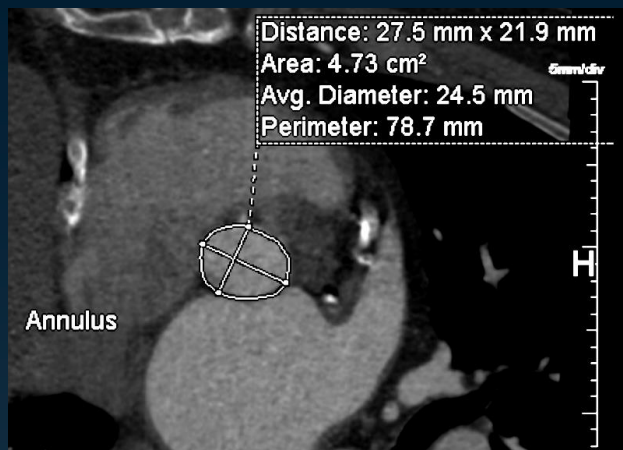
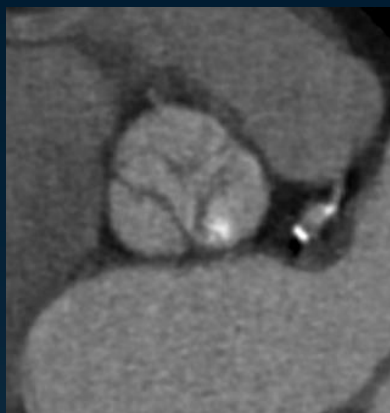
Coronary Angiography



Coronary Angiography



CTA Heart



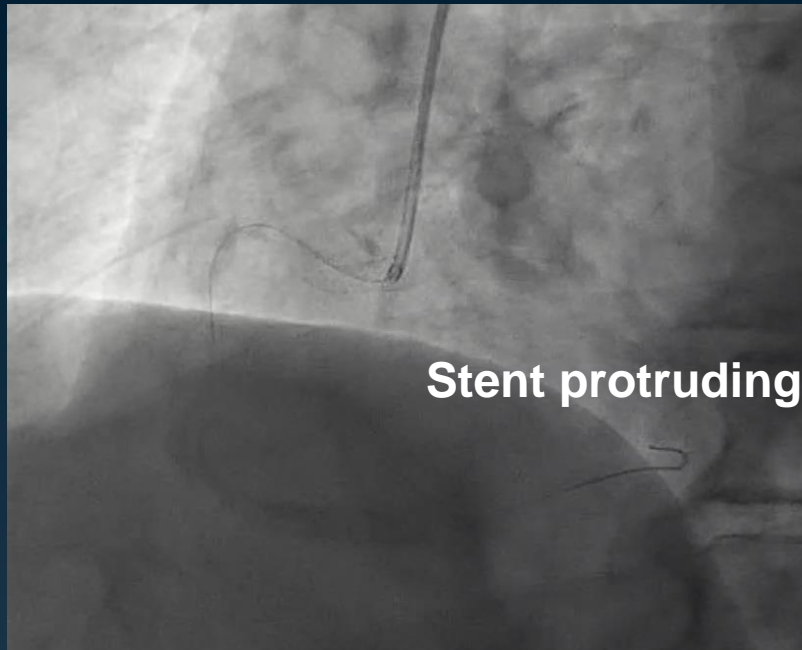
So far ..

- 68 yo man with symptomatic severe AS and severe ostial RCA stenosis
- STS 0.9%, frailty 0/4
- Options?

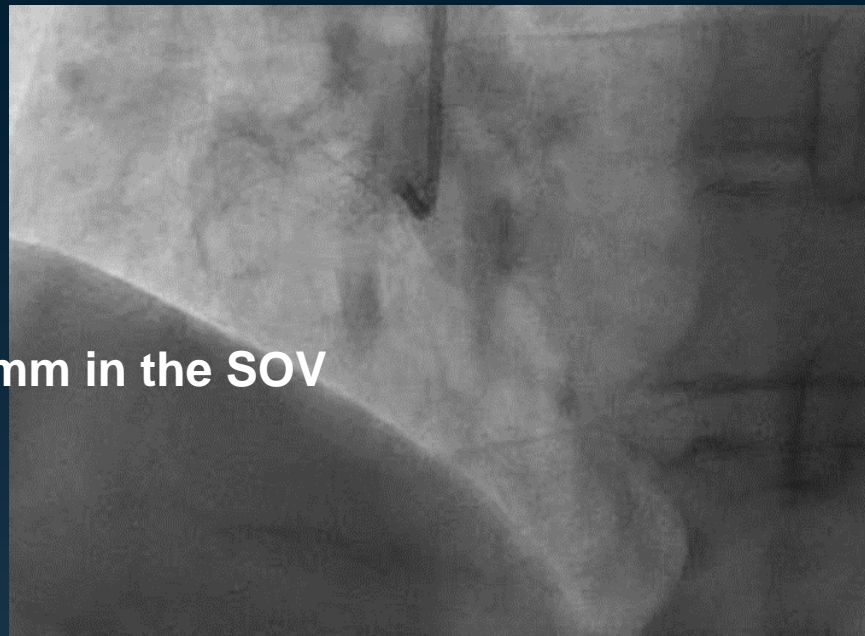
Options

- TAVR then PCI the RCA vs SAVR with RCA bypass

Admission for UA at an OSH



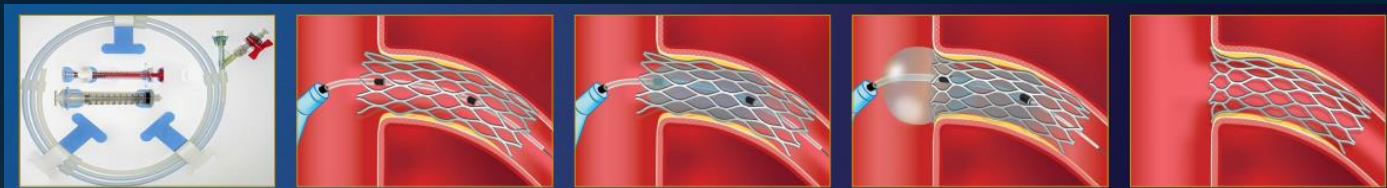
Stent protruding 3-4 mm in the SOV



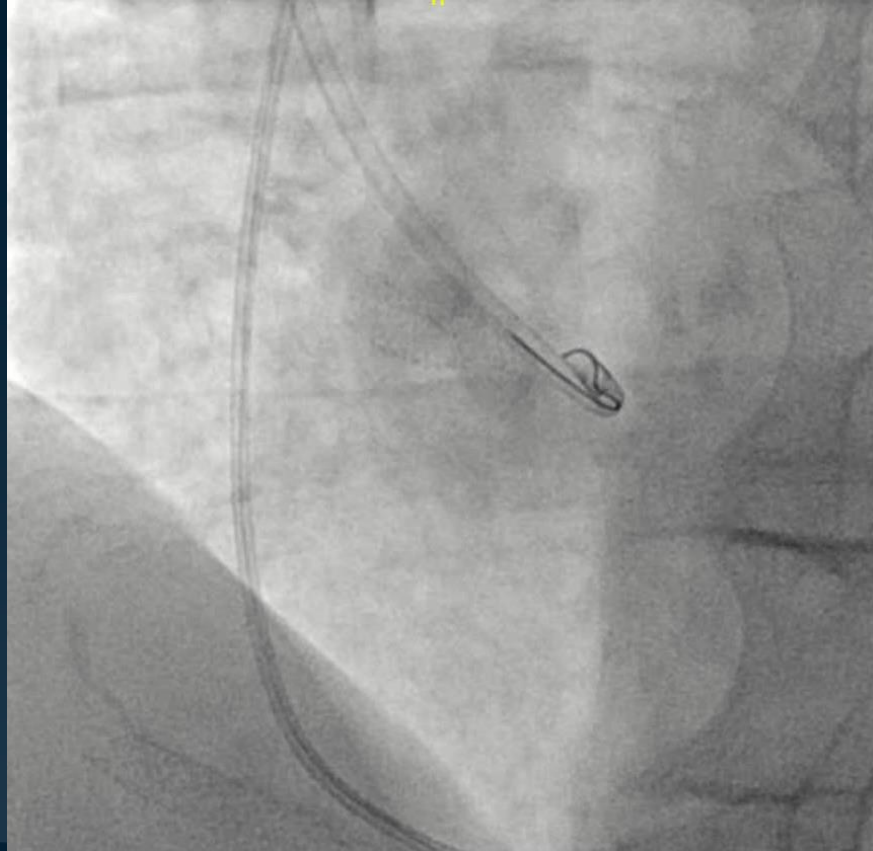
Concern for stent deformation during TAVR using a 26 mm S3 valve



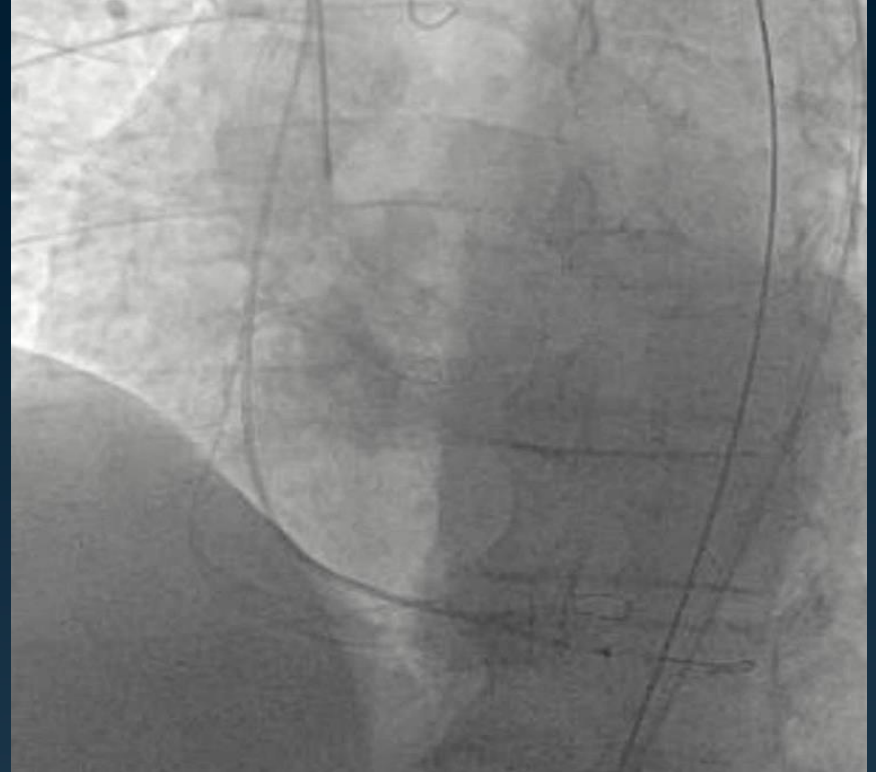
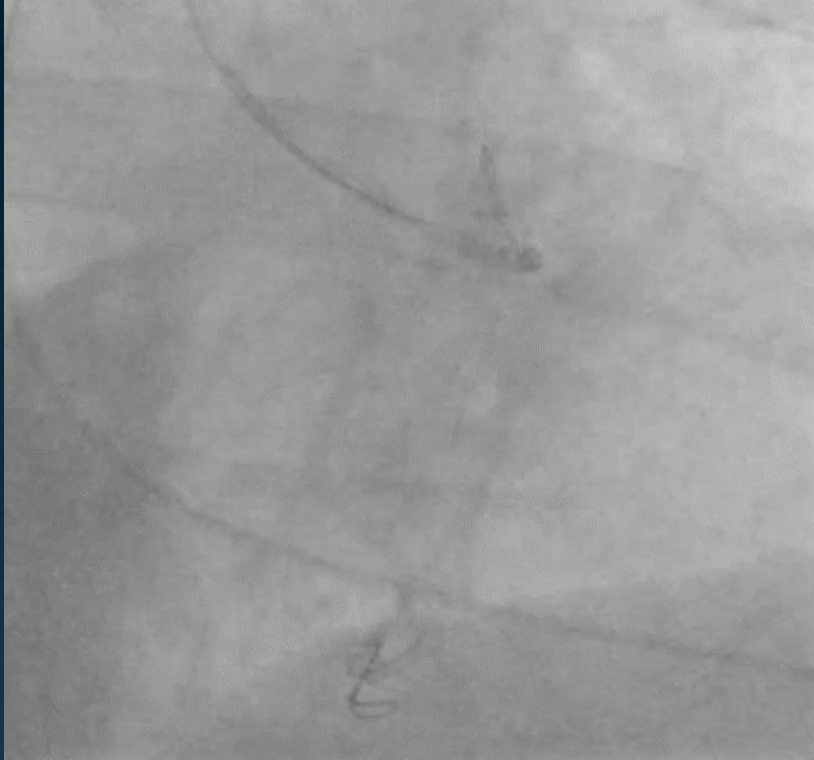
Procedural plan: TAVR with RCA protection



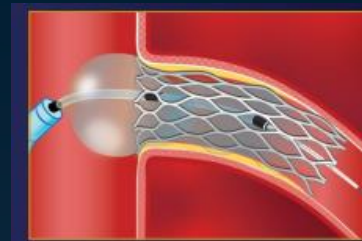
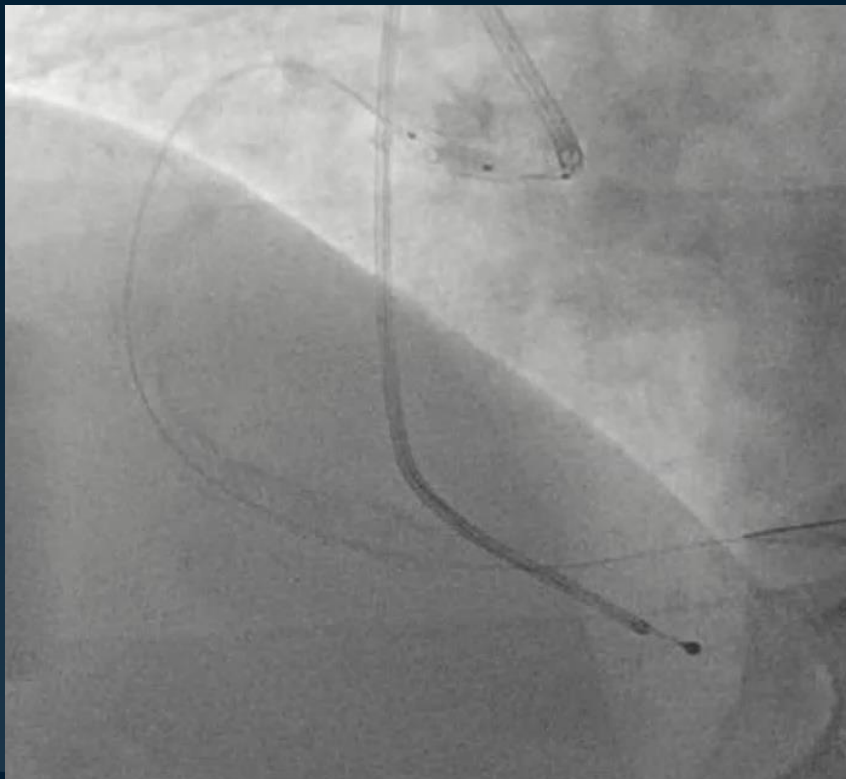
TAVR with RCA protection



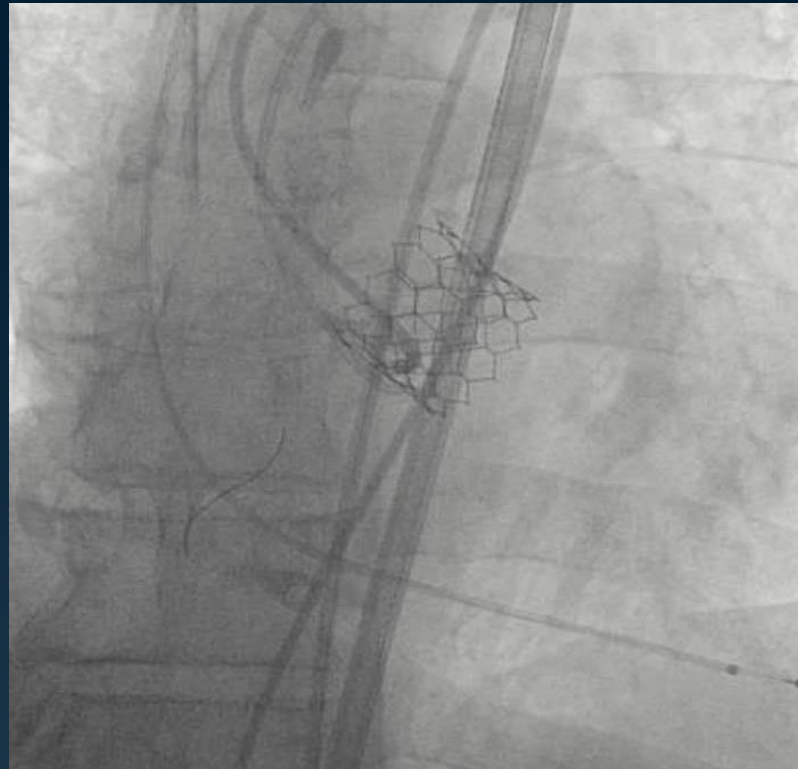
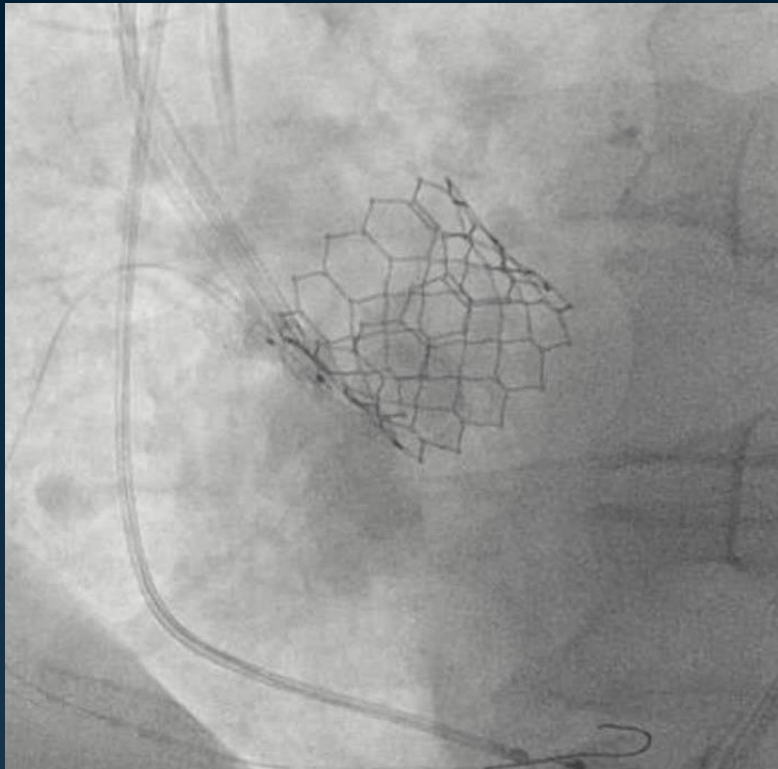
TAVR with RCA protection



TAVR with RCA protection



Results: procedural safety



Take home points:

- Ostial stents protruding into the SOV are at risk for deformation during TAVR
- Stent protection, i.e. balloon and guideliner, can mitigate the risk of RCA occlusion
- The Ostial Flash balloon can help conform the stent to the wall of the ostium, providing lesion coverage and facilitating future reaccess

Thank you