Challenging plug closure for ascending aortic pseudoaneurysms post TAVI using Evolut-Pro

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Disclosure

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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
CASE: 90 y.o. male

Emergency room visit for anterior chest discomfort

2y before: TAVI for severe AS (TF, EvolutPro 26mm)
1y before: no symptom, no abnormal findings on chest-CT
treatment strategy

*surgical repair: golden standard
---device explant, surgical AVR and ascending aortic replacement

however…
*90 years old
*low frailty scale

urgent plug closure
pseudoaneurysm on left side

Rt. brachial access

7Fr-90cm guiding sheath
0.035” Amplatz super stiff
---tip length: 1cm
post plug closure: 22mm AVP2

Part of the ulcer wall could not be covered by plug !!!
pseudoaneurysm on right side

Rt. Femoral access

6Fr-90cm guiding sheath
0.035” Amplatz super stiff
---tip length: 1cm
post plug closure: 16mm AVP2

3rd disc of AVP2 was placed between aortic wall and stent-mesh
completion angio
Post-operative course

After plug-closure, chest discomfort was disappeared.

However, POD 4, sudden massive hemoptysis and died.
Discussion & Conclusion

There have been few reports of plug closure for ascending aortic pseudoaneurysm after TAVI.

Pseudoaneurysm after TAVI is a very rare complication, but it is necessary to select a best treatment method after through discussion in the heart-team.

However, in cases such as very elderly pts, poor frailty pts, endo-Bentall might be the only treatment option. Or just have to wait and see…