



LAA percutaneous closure after surgical closure failure

«interatrial septum scarr: the enemy of the interventional cardiologist »

A clinical case

Patient Characteristics

♀ 83 y/h, weight 70 Kg, height 160 cm, BMI 27 Kg/m²

Cardiovascular risk factors: arterial hypertension, obesity

Remote history: previous (2015) surgical aortic valve replacement (*Suturless Perceval*) for valve stenosis + mitralic anuloplasty (*emianulus Simulus 31*) + CABG with left internal mammary artery for left anterior coronary artery + **sutur of PFO** + **sutur of LAA**.

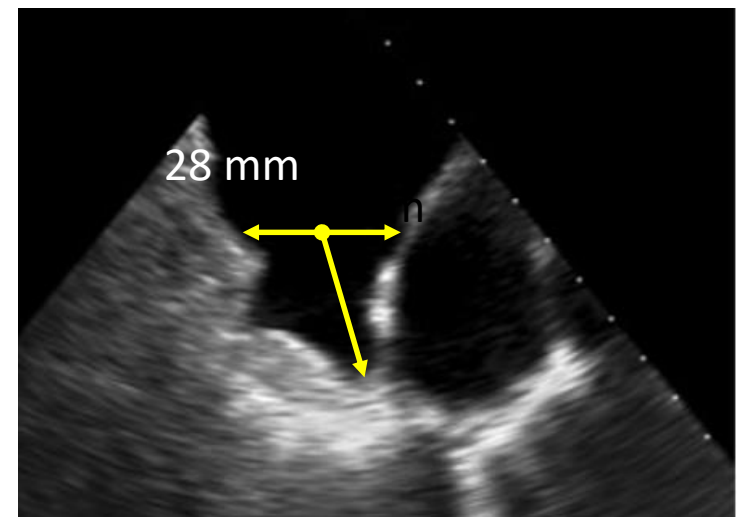
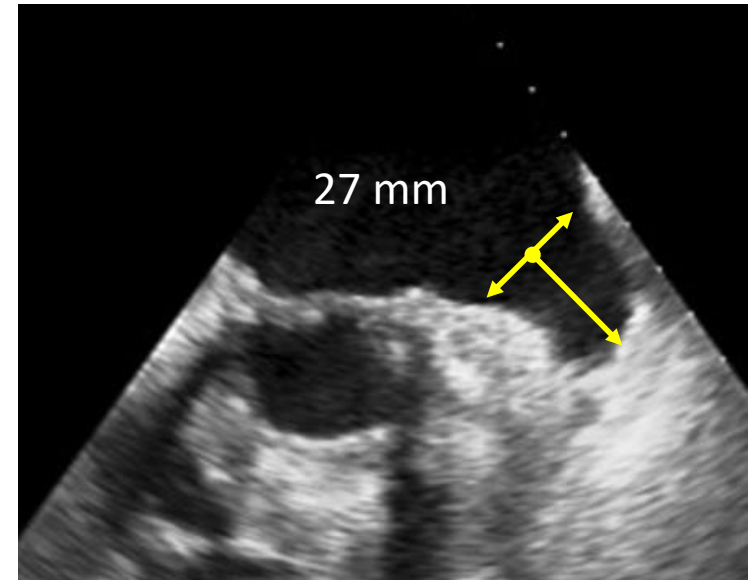
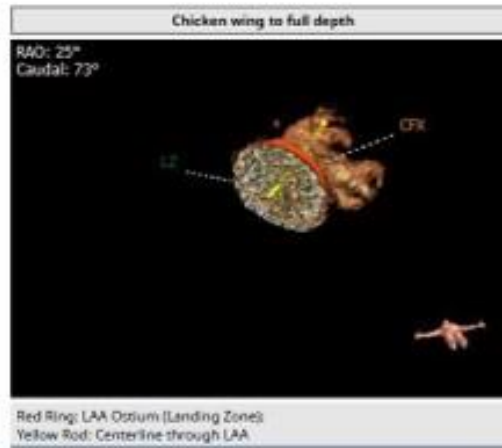
Recent history: **chronic atrial fibrillation** treated with anticoagulation suspended for **cerebellar hemorrhage** (2018) and subsequent **cerebral ischemia** (2019)



Indication for LAA percutaneous closure

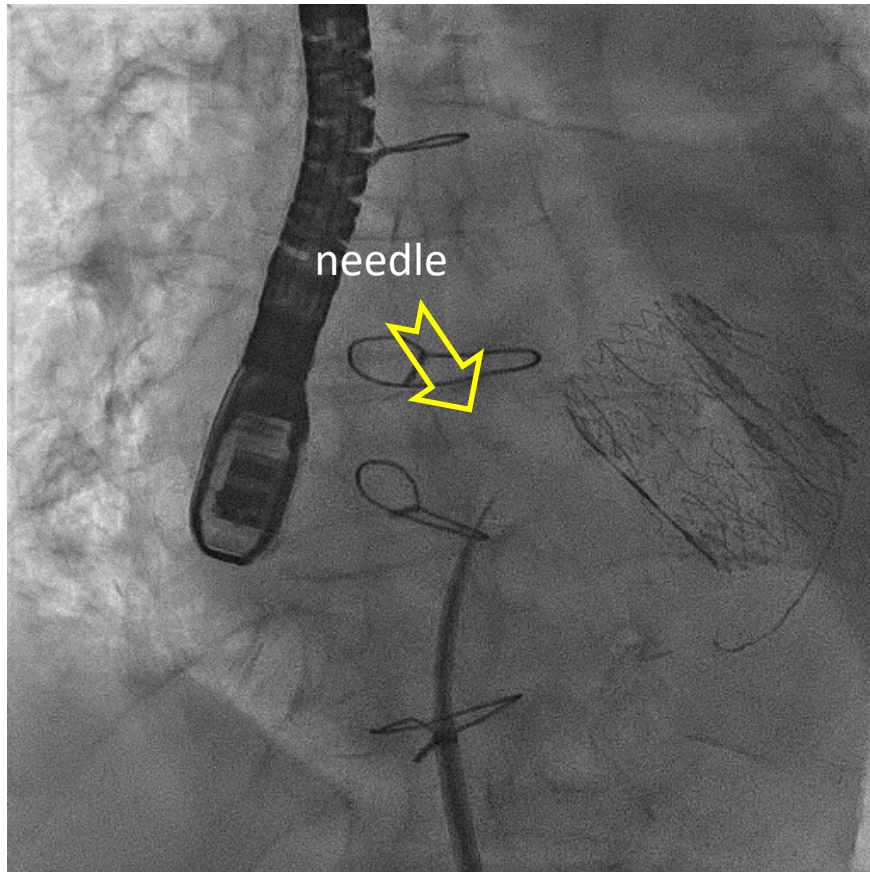
Basal findings

- Evidence of big patent LAA (trans esophageal echocardiogram & CT scan)!

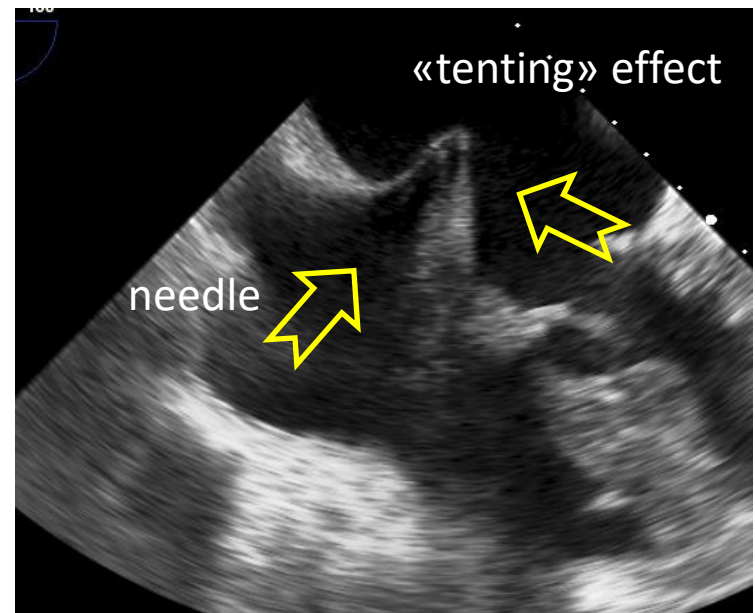
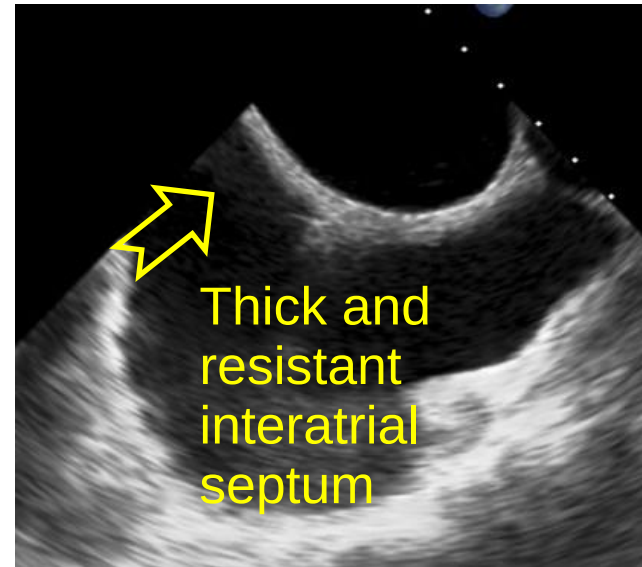


Procedure

- Transeptal punctur

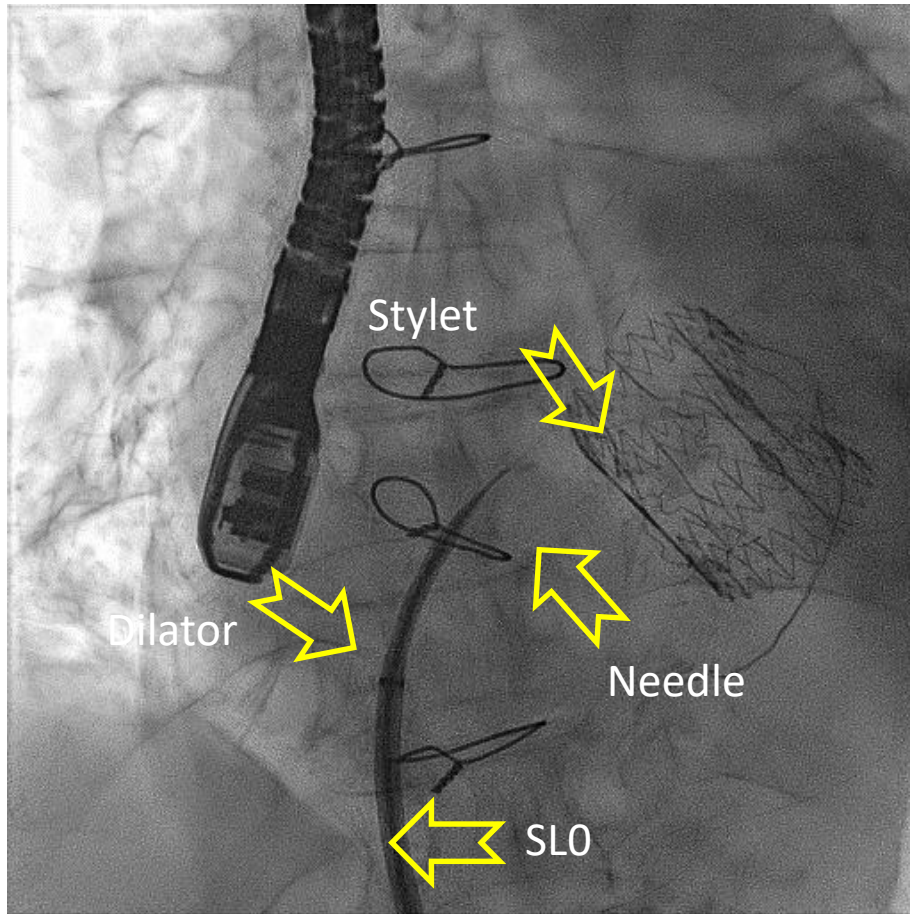


The needle is not able to pass the septum even with a strong force applied

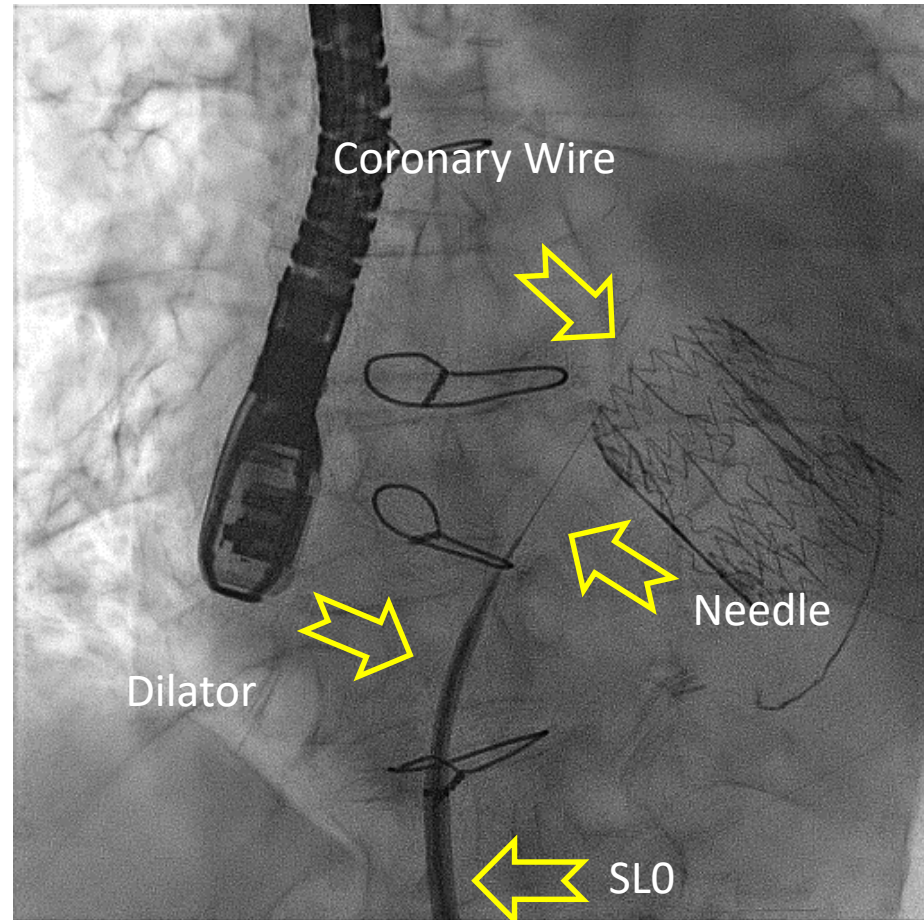


Procedure

- «Powered» transeptal punctur



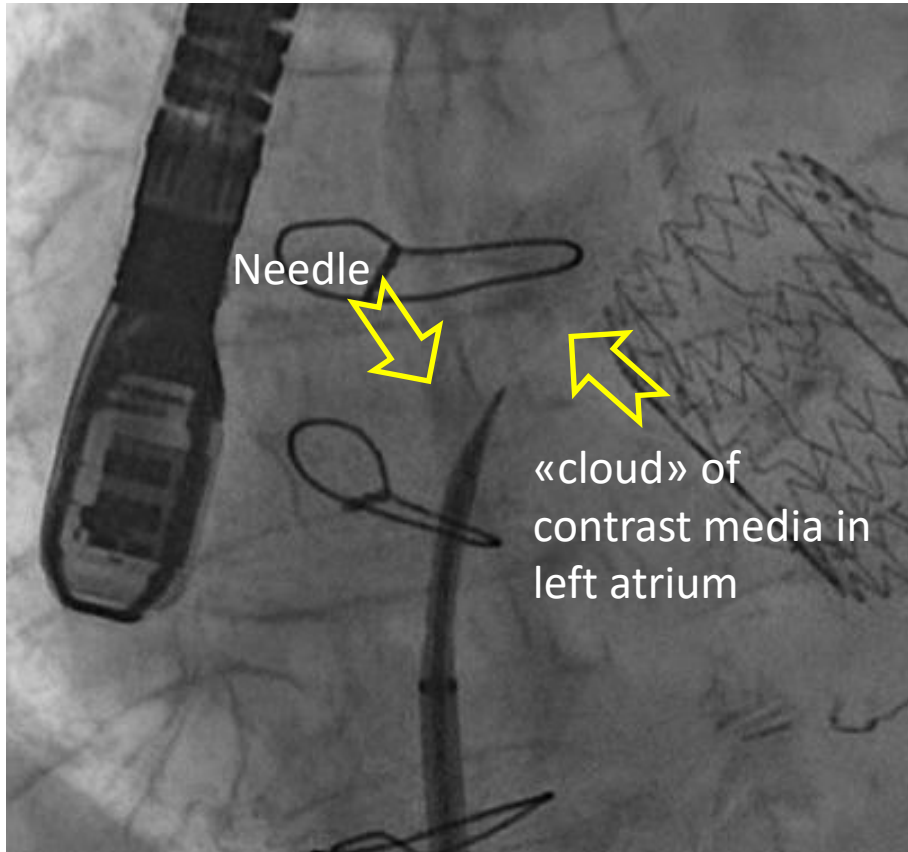
The «stylet» of SL0 does not pass through



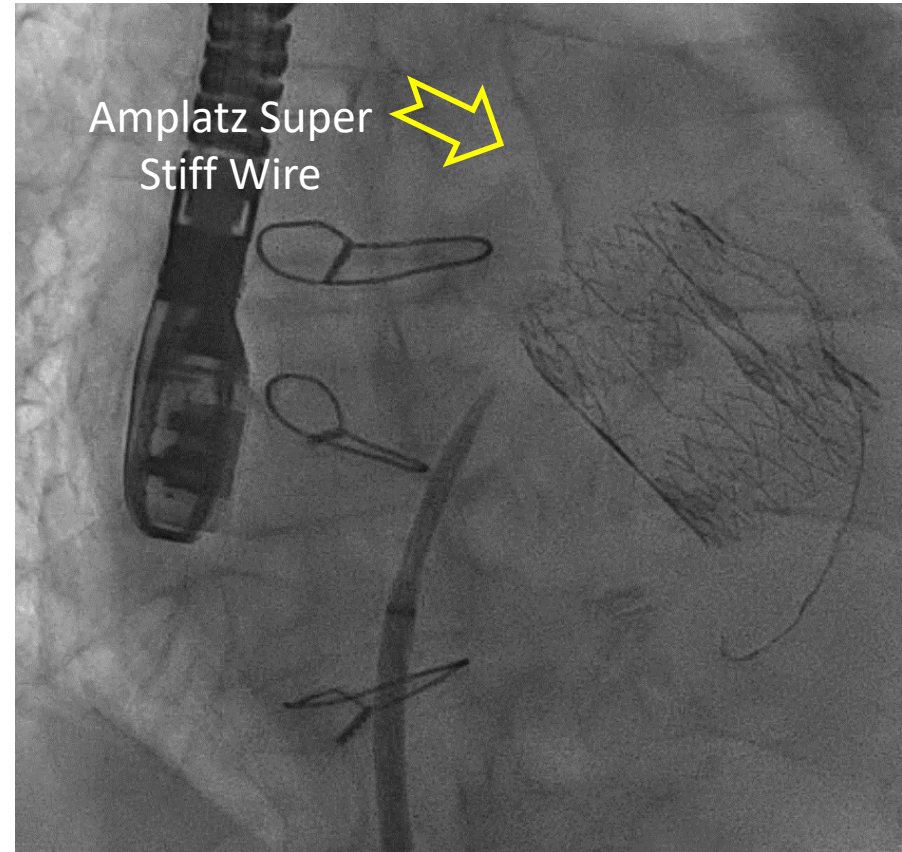
The Back of a coronary wire (BMW) is able to pass through the septum

Procedure

- Passing through the septum



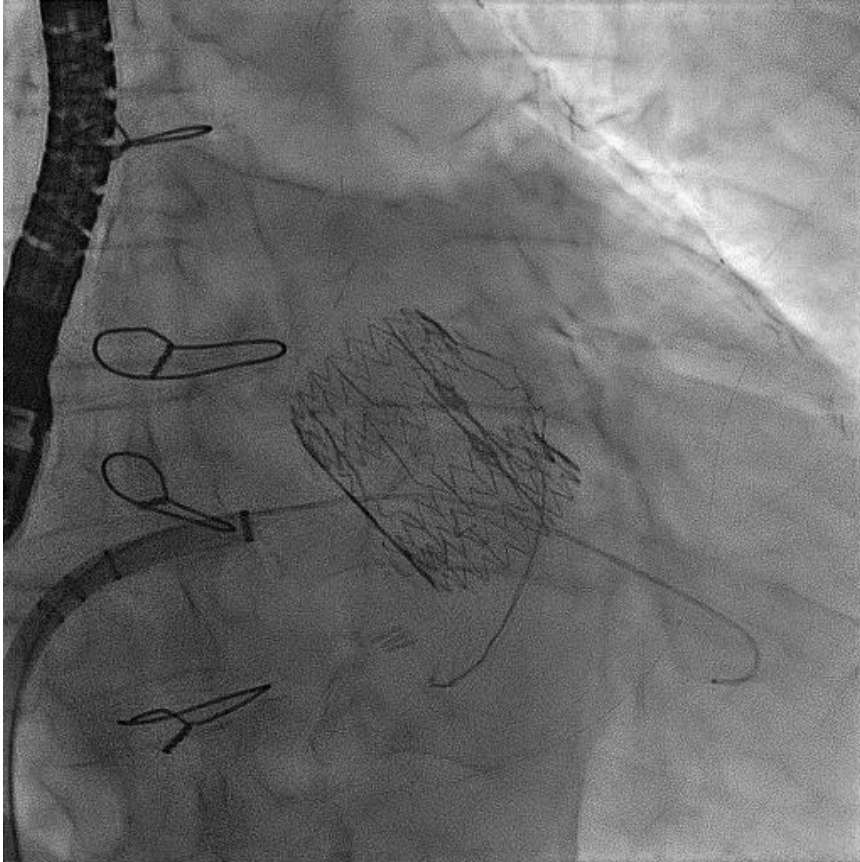
The needle passes through the septum



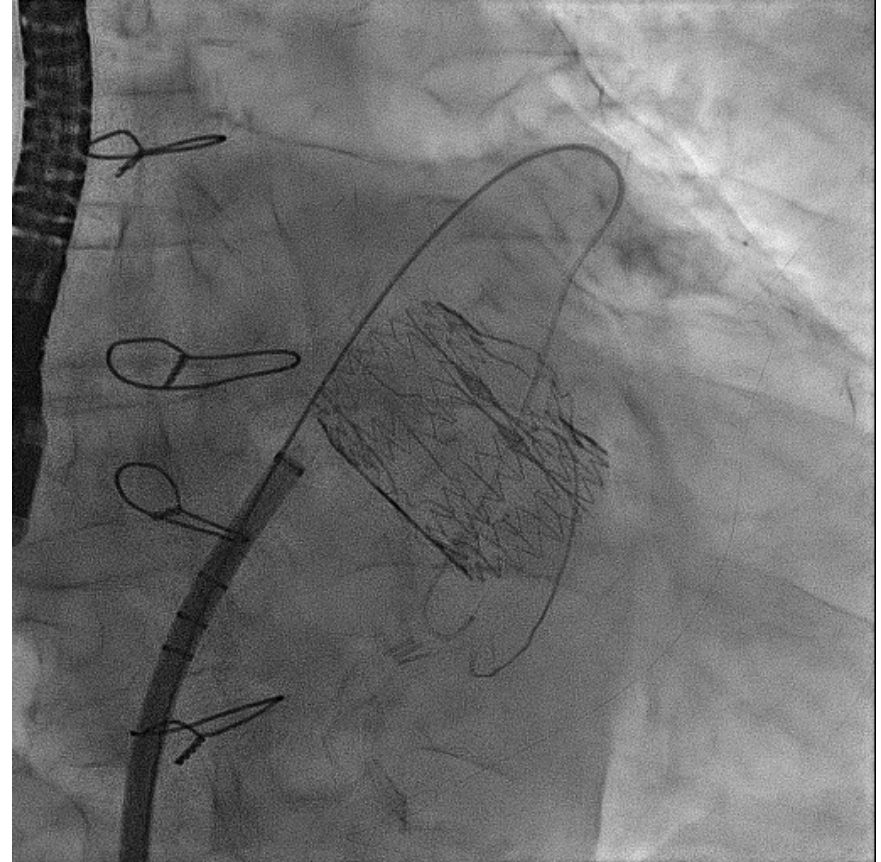
Just the dilator of SL0 passes through the septum with an «Amplatz Super Stiff» wire

Procedure

- ... at last passing the septum!



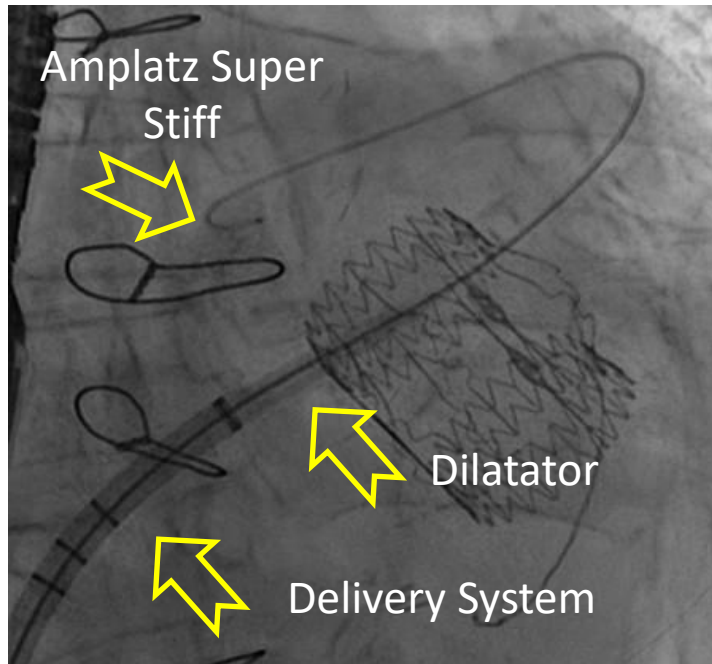
The delivery system does not pass with standard dilatator



Using the «anterior curve» dilator the system passes through the septum

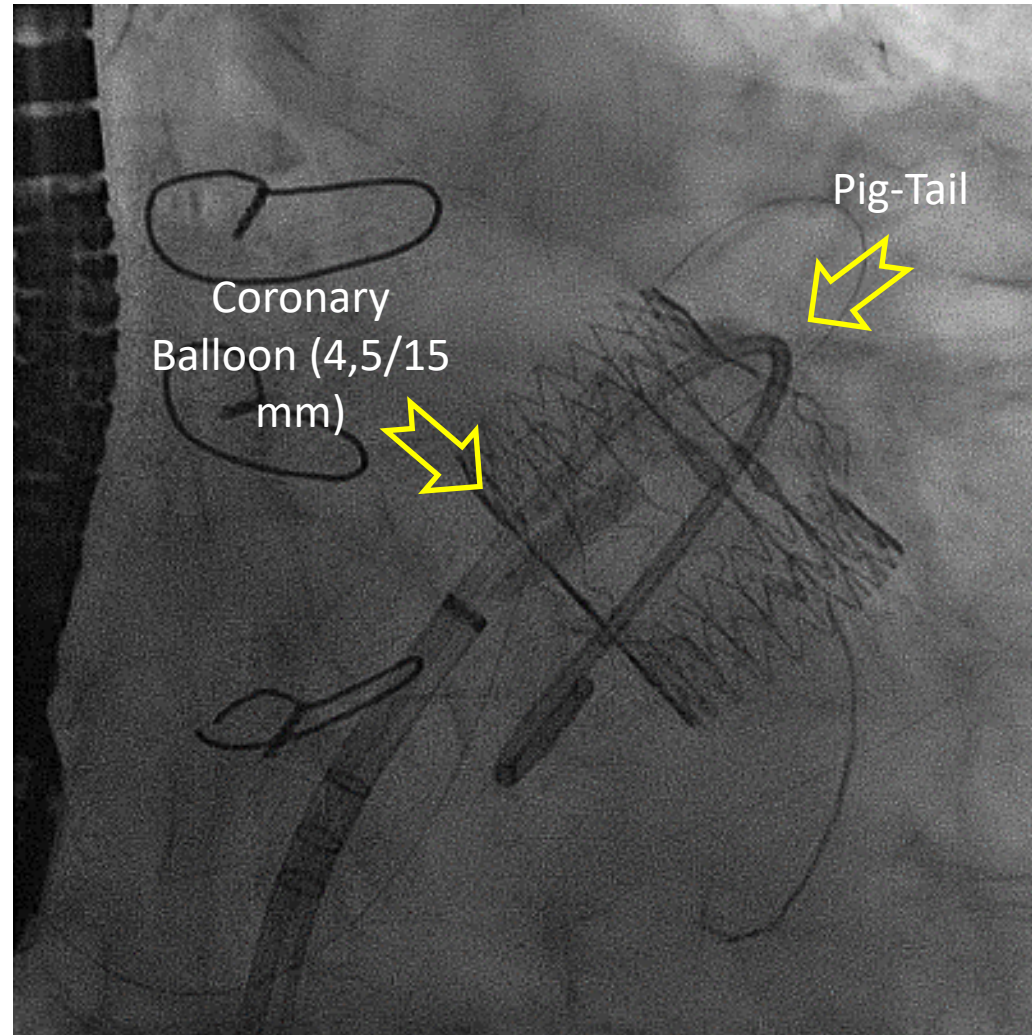
Procedure

- ...passing the septum....it is not enough!



Delivery System is stucked in the interatrial septum

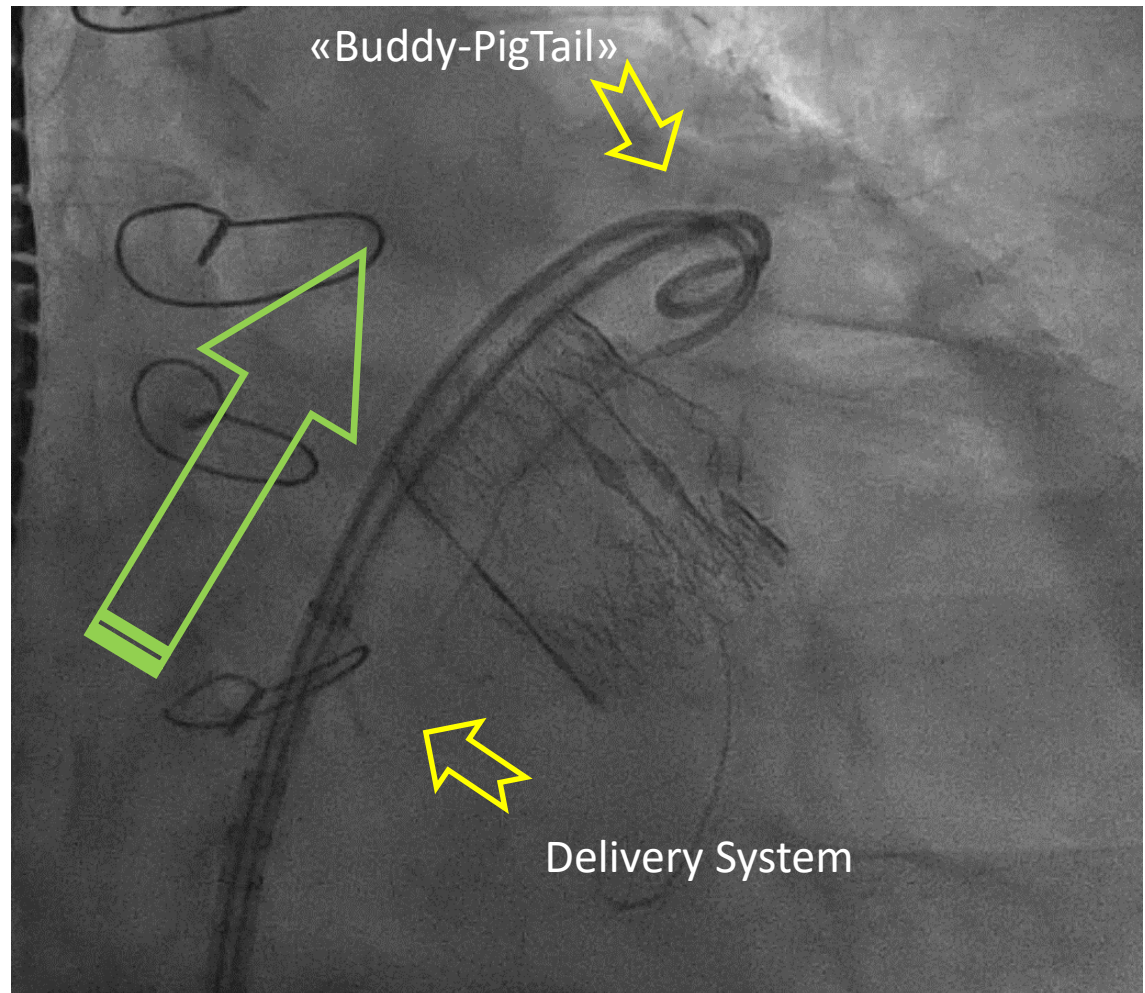
Stabilizing the system with a pig-tail a coronary balloon is used for a «Septum-plasty»



Procedure

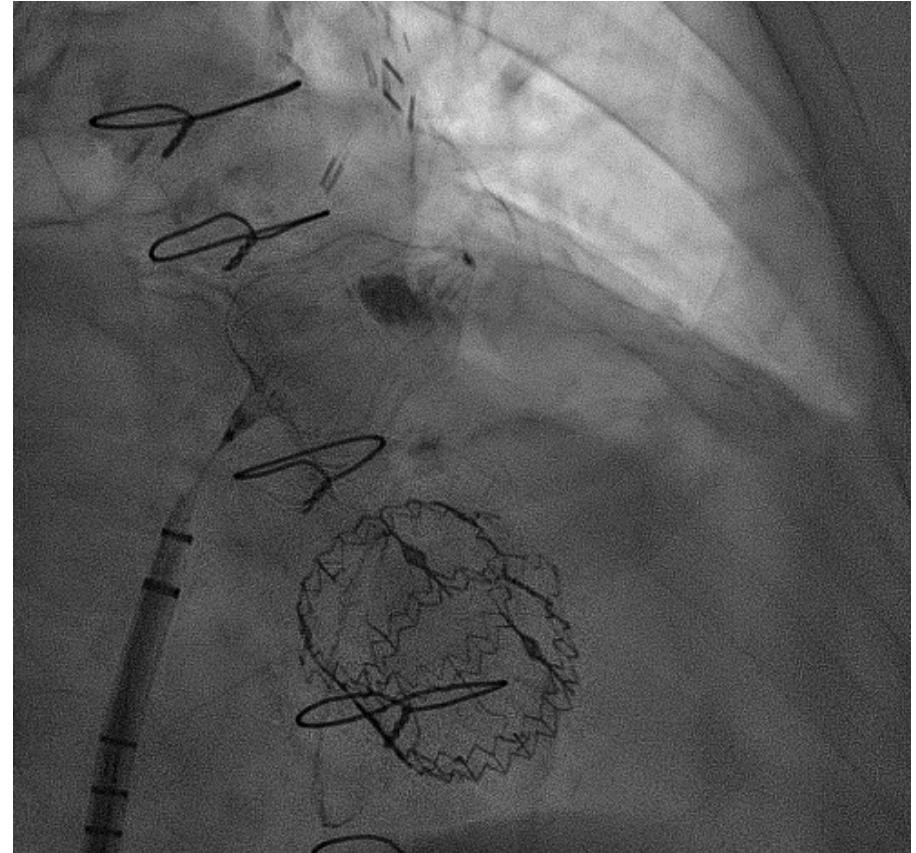
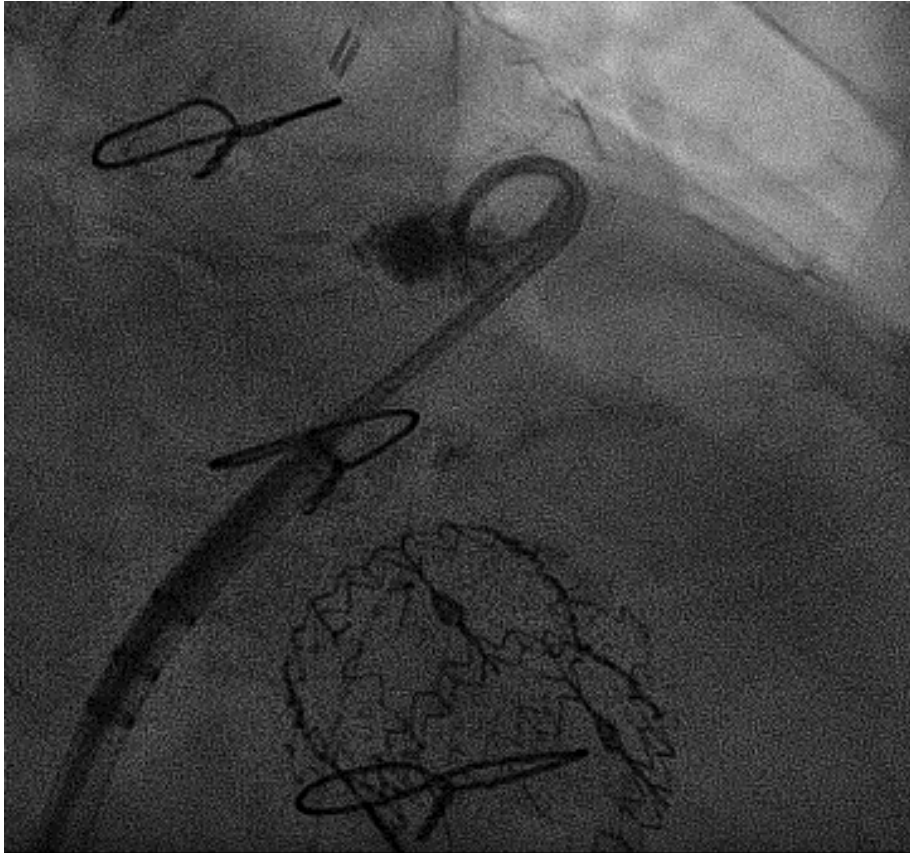
- ... because of the insufficient support provided by a single Amplatz Super Stiff wire to advance the delivery system through the thick septum...

... two pig-tails catheters with inside two high-support wires were placed in left atrium in order to obtain a «Buddy-PigTail» which permitted to advance the system up to the ostium of LAA



Procedure

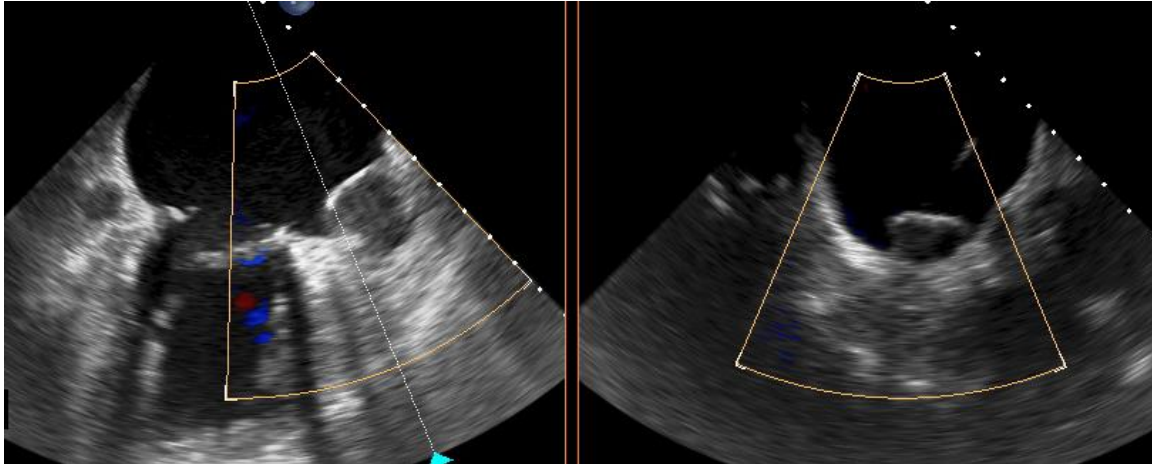
- ... reached the LAA the procedure continues as usual....



Watchman Flex 35 mm

Final result

- A good angiographic and Echo result has been obtained with a good sealing of the LAA.



... patient has been discharged after 2 days with DAPT and usual therapy

