

Navigating the Maze!!!

• How to manage Long epicardial collateral with loops with Short microcatheter!!

Case presentation :

- 78 Y old male patient.
- HTN, DM2, Smoker, DL.
- Hospitalized for decompensated heart failure few times within the last 2 months.
- TTE : Dilated LV with reduced LVEF at 30 % and severe hypokinesia of the inferior wall.
- CMR : Dilated LV with reduced LEVF at 27%, and infero-lateral non transmural gadolinium enhancement.



Coronarography :



Mild lesion on the Lcx



Moderate lesion on the Mid-LAD



Coronarography :



RCA CTO with homolateral et controlateral collaterals



RCA CTO with homolateral et controlateral collaterals



Ad Hoc Trial of the CTO by antegrade approach :



Antegrade Wire escalation starting with Gaia 2 and Turnpike MC



Gaia 2 in small branches or outside the architecture



Ad Hoc trial of the CTO antegrade :



Escalation to Gaia 3 with Parallel Wire technique



Gaia 3 in the Subintimal space



Ad Hoc trial of the CTO antegrade :



Escalation to Hornet 14, always subintimal





2nd Trial with dual injection :



Dual injection shows short CTO lesion but unable to cross with antegrade approach



Dual injection shows an important RCA branches and very good epicardial collaterals from the diagonal to the PDA





Unlooping the first loop using Sion Black wire and Turnpike LP 150 cm



Microcatheter Tip Injection shows more Loops





Injection before trial of unlooping by Sion Black



Failure to Unloop the second loop with the Sion Black





Tip Injection in the Turnpike LP before the Loop loop

loop with a SUOH 03

Unlooping by advancing the Turnpike LP on the Suoh 03





Dual injection with Tip injection from the Retrograde MC



Gaia 3 Retrograde Does not cross the lesion





Crossing the lesion with Confianza Pro 12



Unable to navigate with the Confianza across the RCA and no more length in the MC to cross the lesion





Trial to do Tip In using Gaia 3 antegrade to retrograde





antegrade wire

the Retro MC





After creating multiple channels with the Confianza Pro, a Gladius Ex succeed to navigate across the lesion and get to the proximale RCA



Advancing Guiding extension catheter antegrade and Tip In with the Gladius Ex Retrograde





Anchoring the Rterograde Wire with a Balloon of 2,5 mm advanced antegrade



Optimization of the support by advancing a Guiding Extension catheter retrograde into the Diagonal artery toward the epicardic collateral and a new MC with more support CORSAIR Pro, but failure to advance the MC retrograde across the lesion





Removing of the Y connector at the Guiding catheter to have 4-5 cm more length and anti clockwise rotation of the Corsair Pro, then success to cross the lesion



Advancing the Corsair Pro into the Guidezilla and externalization with RG3 300 cm









Dual protection of the epicardial trajectory with 2 MC antegrade and retrograde and retrieval of the retrograde wire



Advancing a workhorse wire in the antegrade MC and controle of the epicardial collateral by retrograde injection



IVUS and Angioplasty :



IVUS control



Predilatation of all the segments according to the IVUS measurements



IVUS and Angioplasty :



Wiring the PLA and stenting the distal RCA toward the PDA with DES 3,5x48 mm according to the IVUS measurements



Control post stenting and competitive flow in the distal PDA



IVUS and Angioplasty :



Stenting the Mid RCA



Final IVUS control









Final Angiographic Result



THANK YOU

