



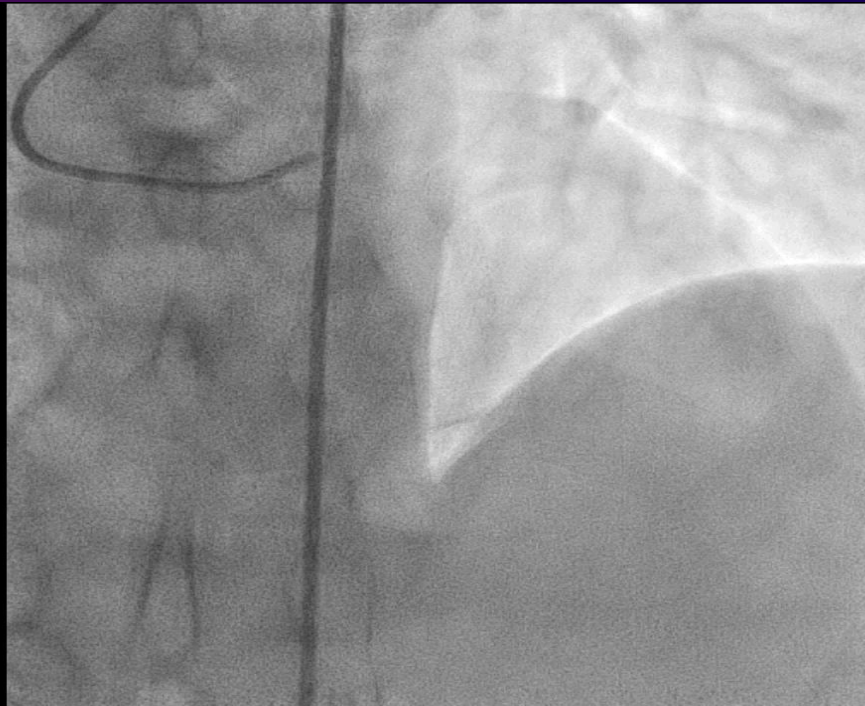
Anomalous circumflex from RSOV with Medina 1,1,1 bifurcation

Dr Chandrashekhar V. Patil

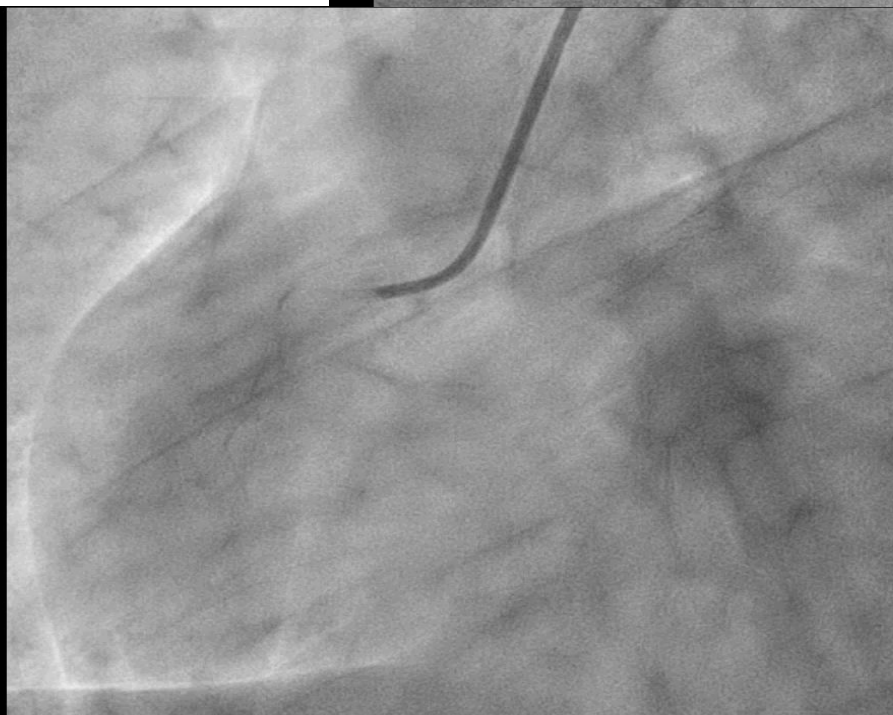
MD, DM, DNB, FACC, FSCAI, FESC, FCSI

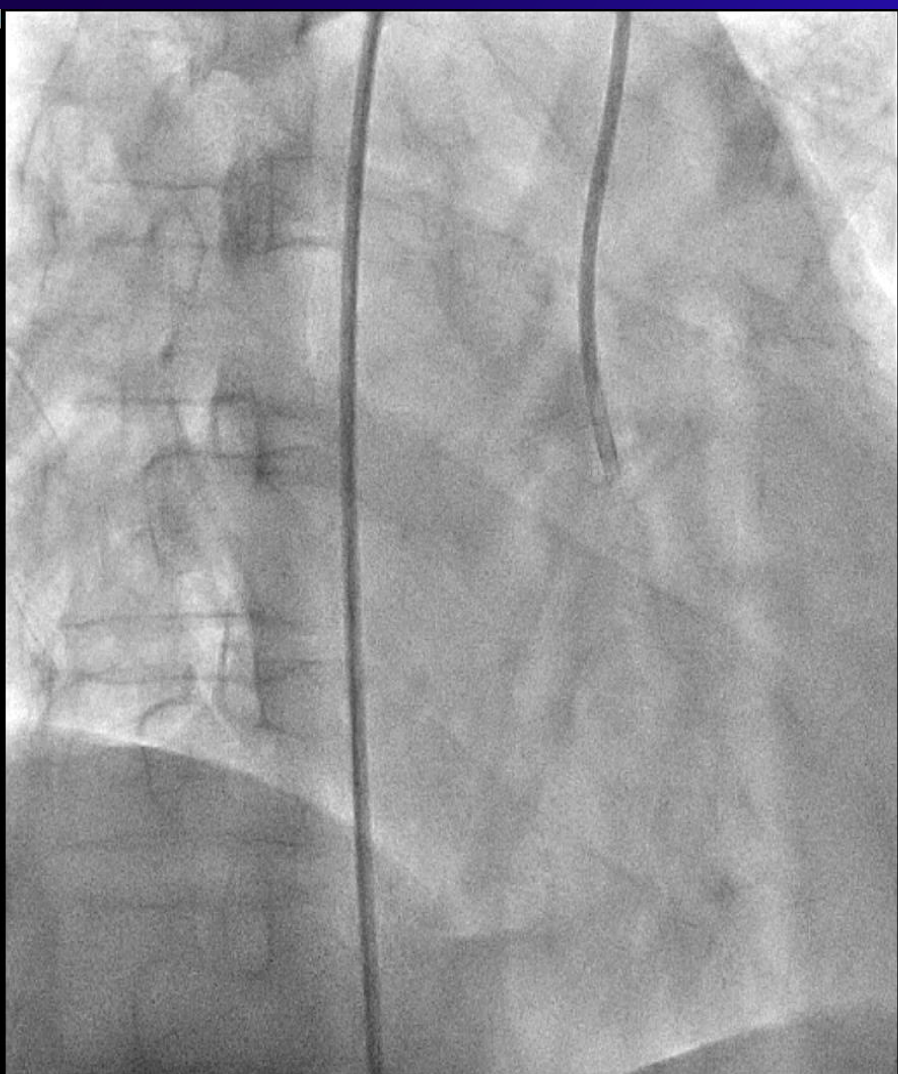
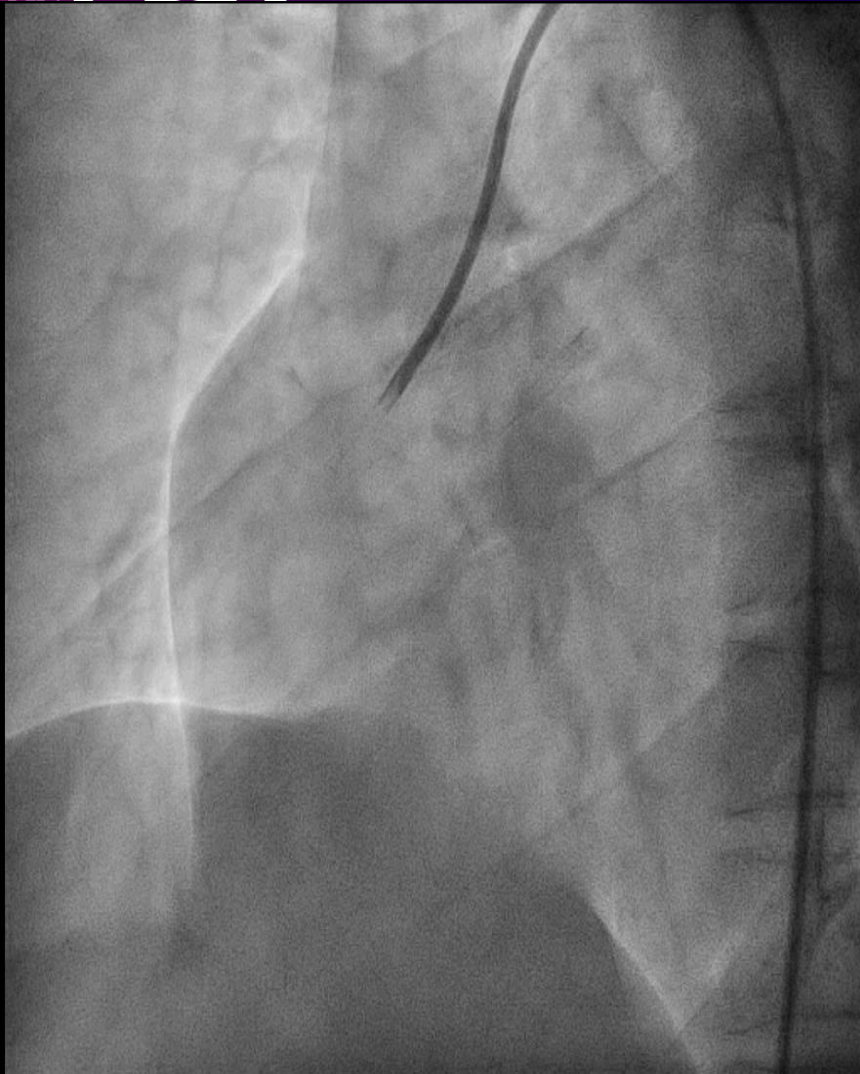
Shri Sai Cardiac Center, Kolhapur

- 54 / M
- Angina on minimal exertion 3 days
- AWMi with cardiogenic shock 5 years back, rescue PCI LAD
- F/H premature IHD (father SCD 35 years), hypertension 5 yrs
- ECG – old AWMi
- Echo – thinned, dyskinetic LAD territory, LVEF 30 %
- Hemodynamically stable, no LVF
- Right radial pulse – absent (previous procedure)

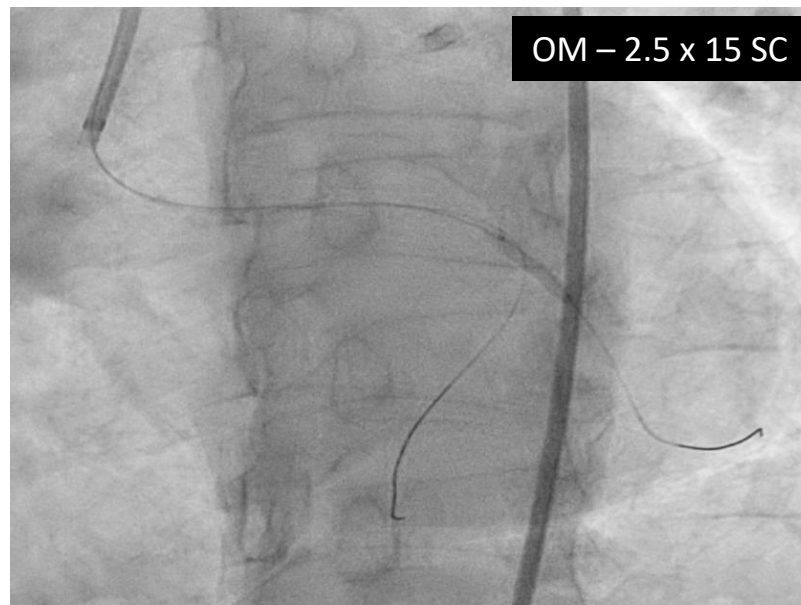
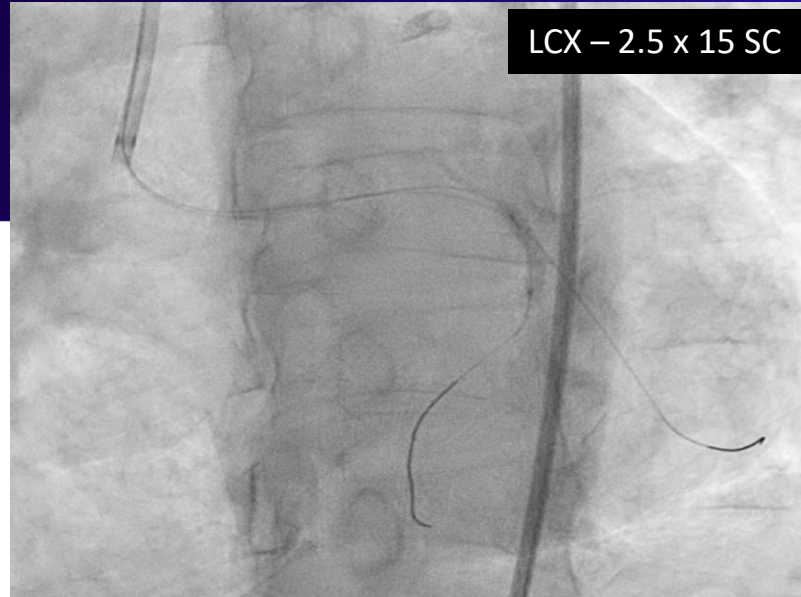
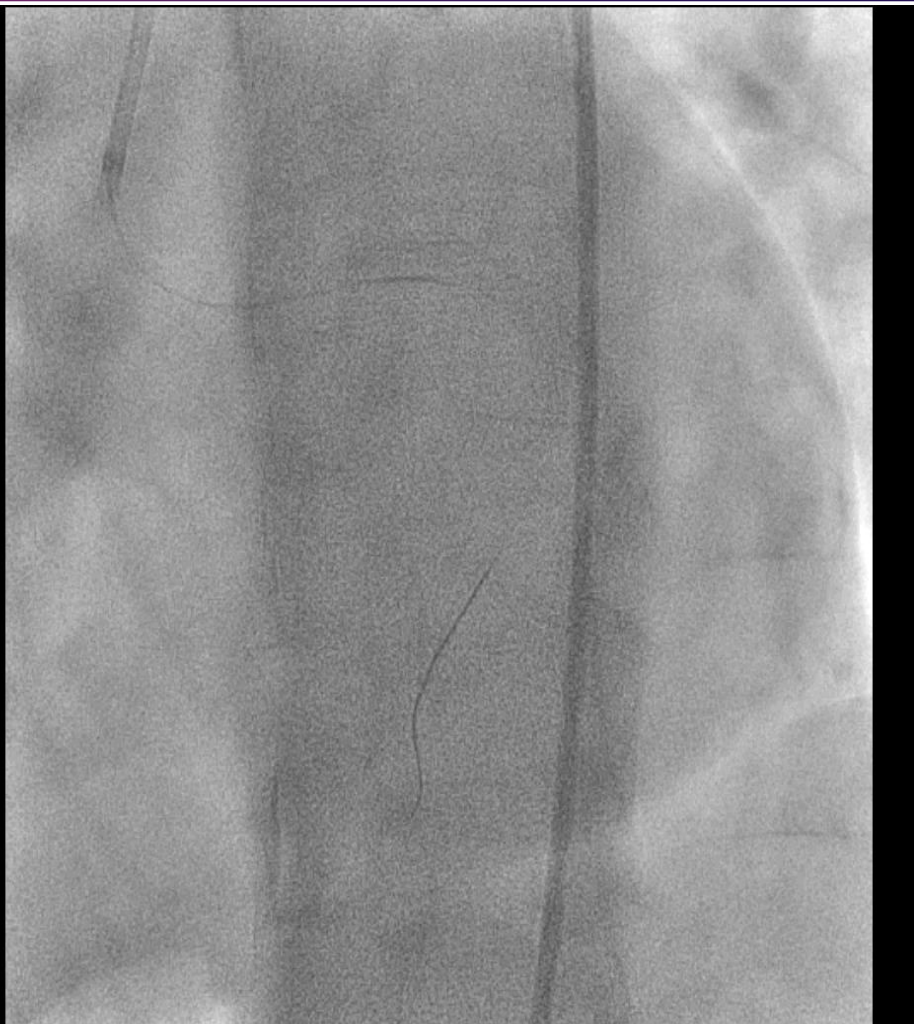


Large anomalous LCX from
RSOV – inferior and
posterior to RCA origin
Retro-aortic area –
normal - Distal Medina
1,1,1 lesion

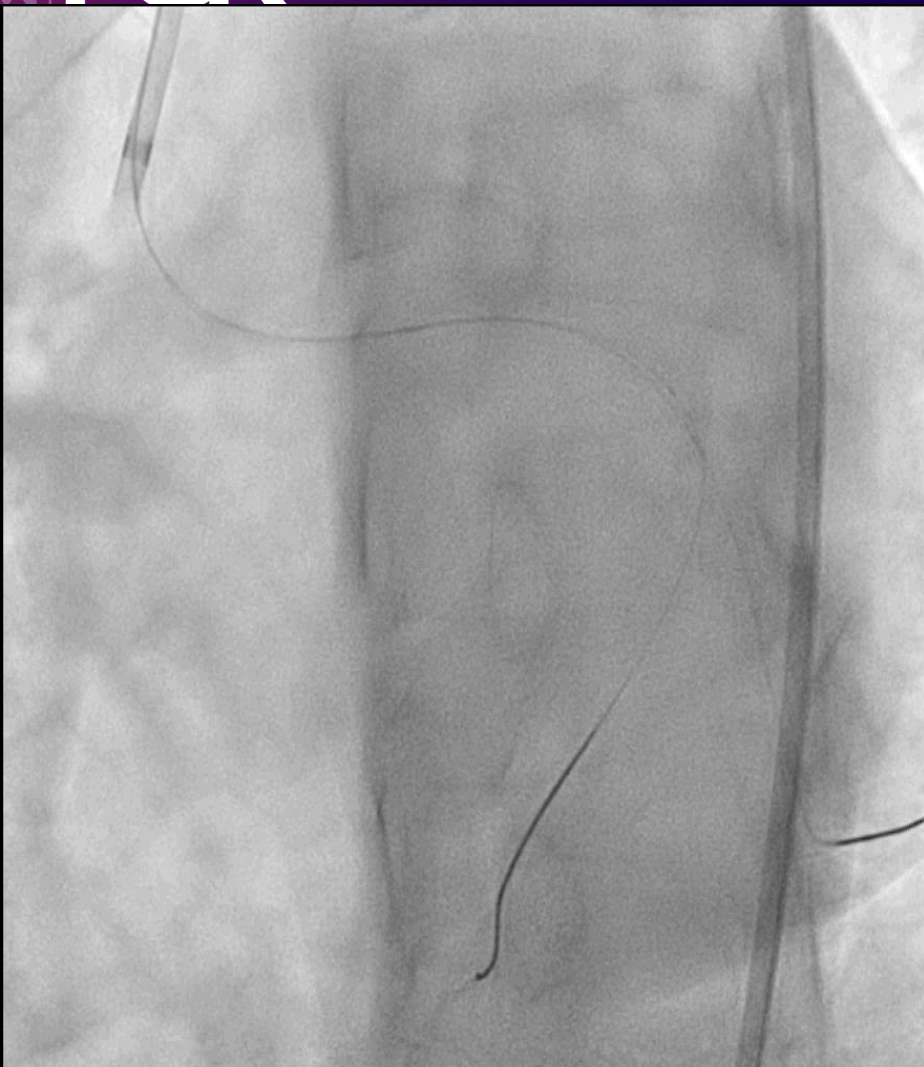




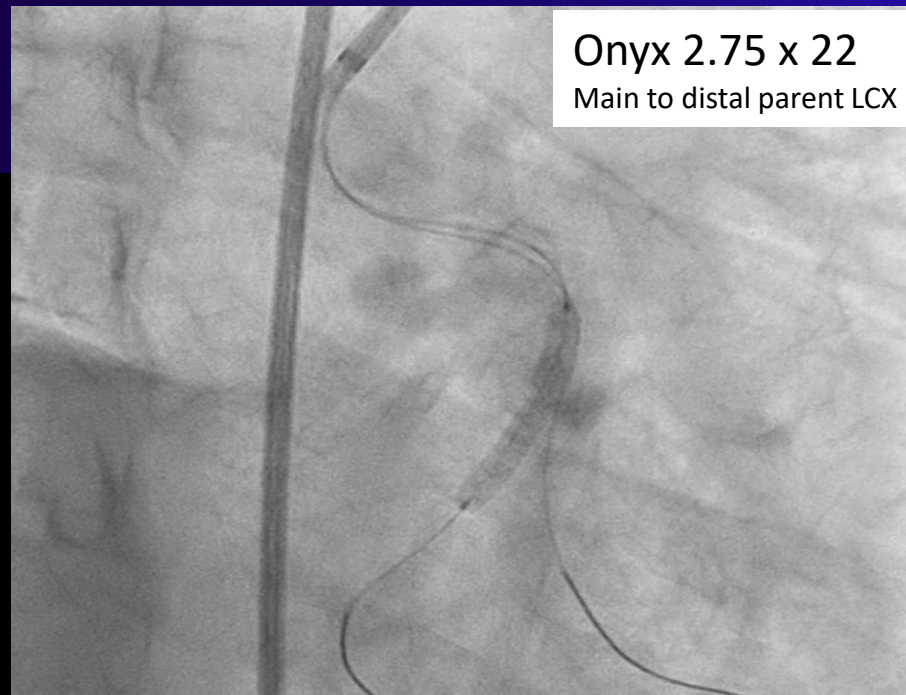
Left femoral 5 F sheath – hemodynamic support – poor LV
 Right femoral 7 F MP 1, difficulty engaging
 Clockwise in RAO to turn posteriorly



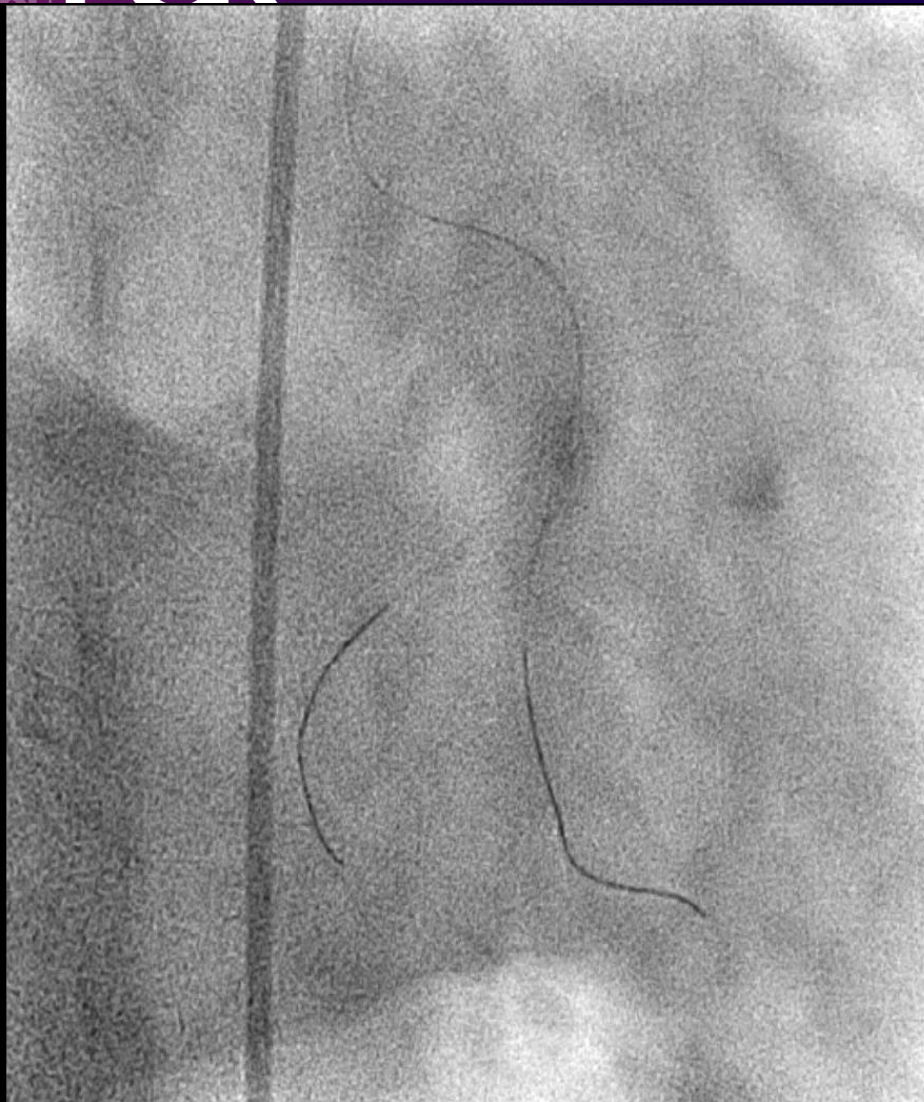
150 cm Caravel microcatheter –Sion blue changed to Sion blue extra-support in distal CX



Onyx 2.75 x 22
Main to distal parent LCX



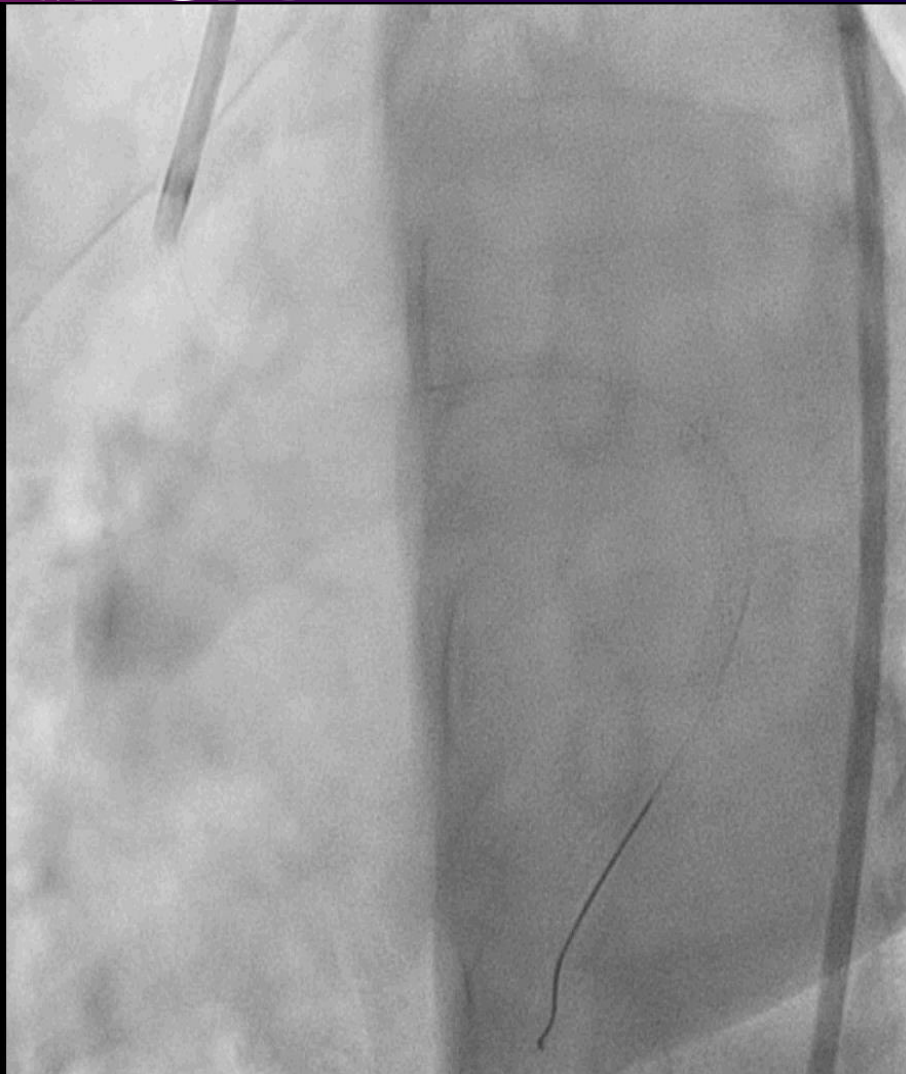
POT 3.5 x 6 NC



Difficulty in tracking 3.5 x 6 NC balloon on bend, OM wire removed

Kissing balloon dilatation – 2.75 x 15/ 2.75 x 12 NC 20 atm consecutively,
12 atm simultaneously

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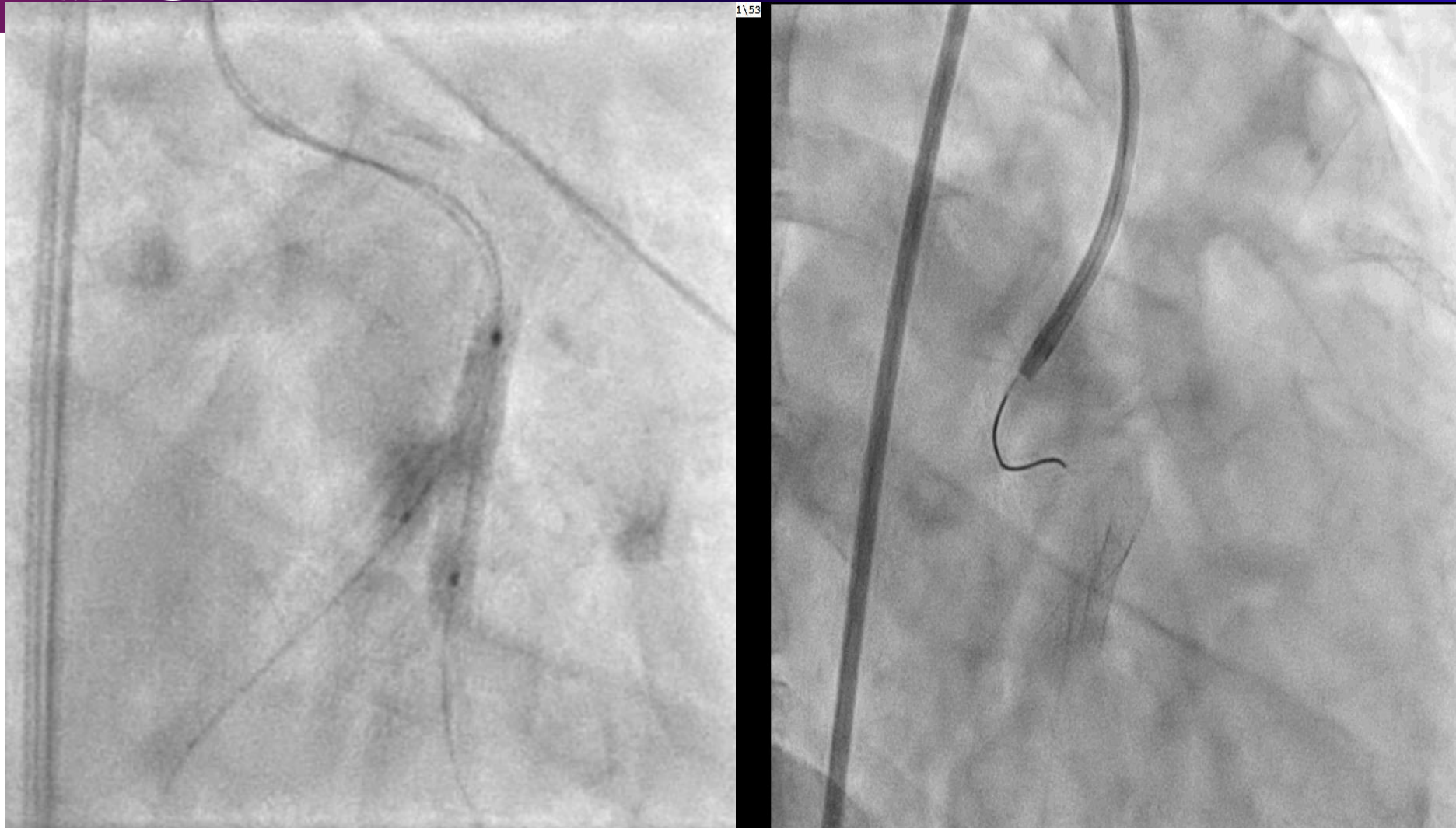
Post POT 3.5 x 6 NC



KBD – 2.75 x 15 NC and 2.75 x 12 NC

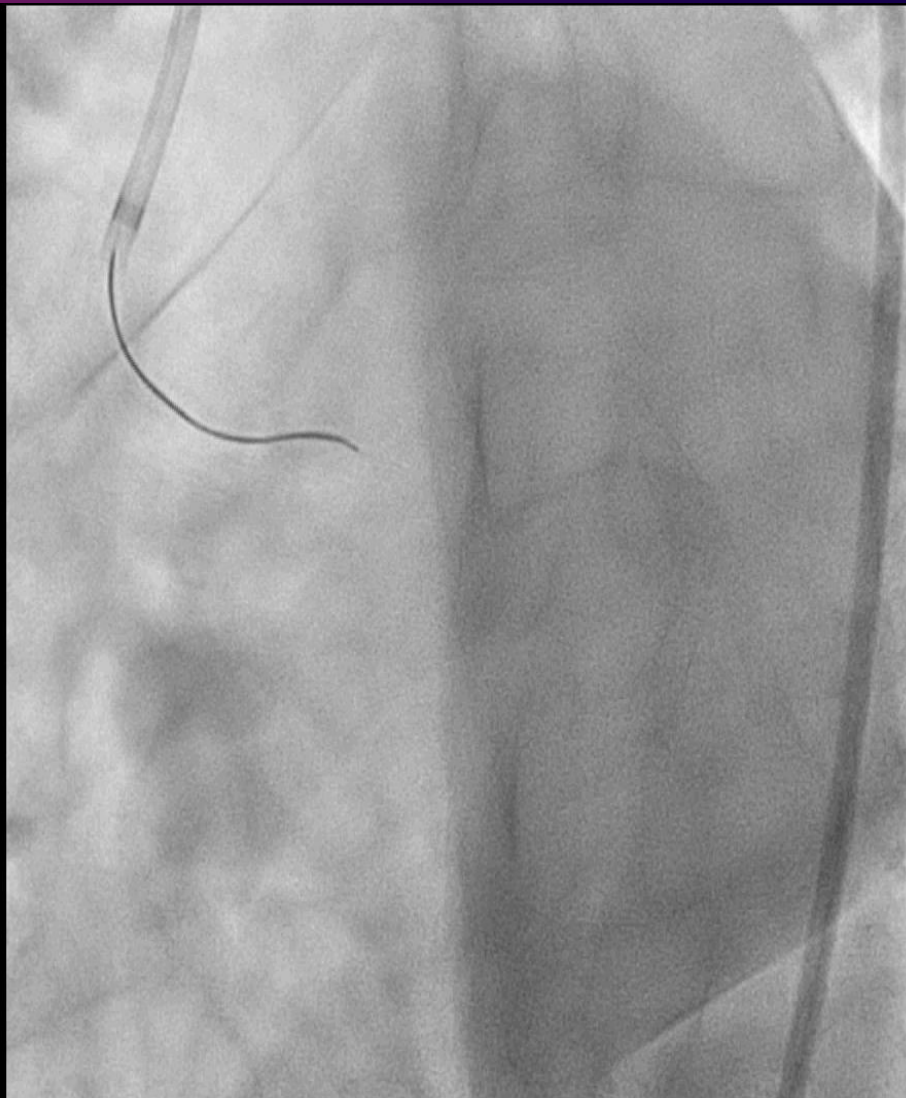


Even though post KBD result was good, TAP was done with 2.75 x 15 Onyx,
in view of difficult anatomy

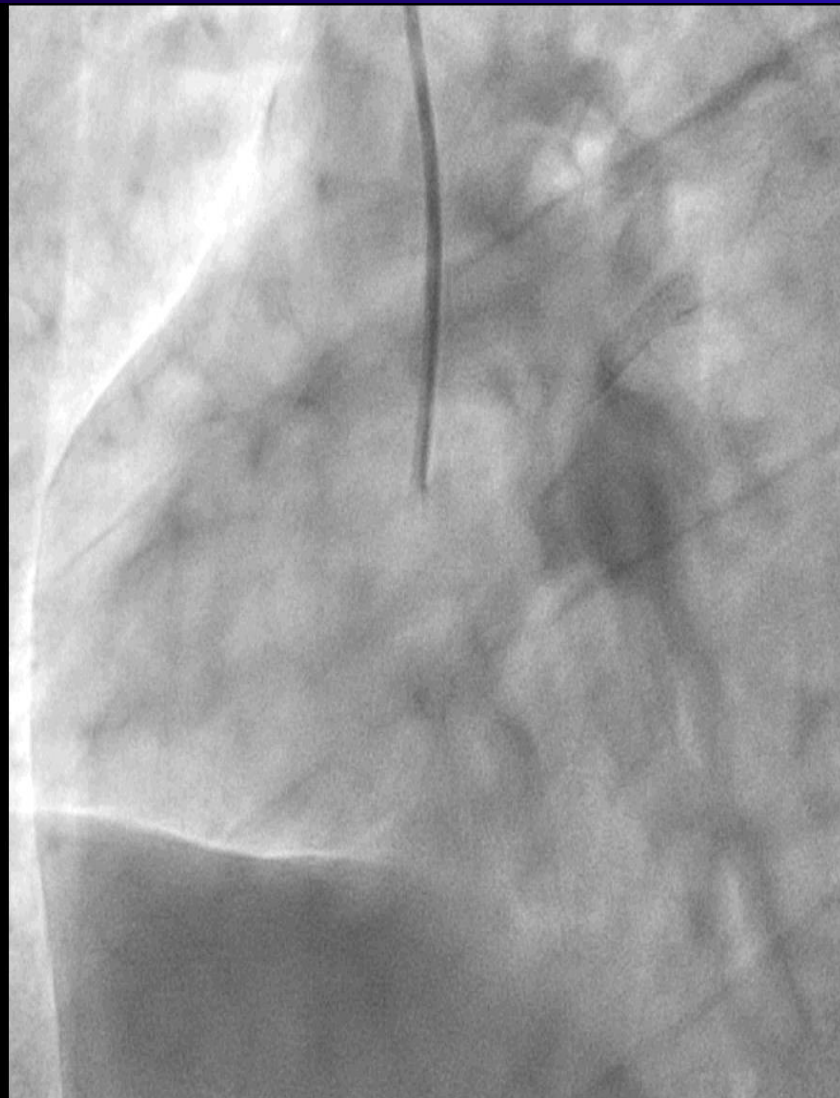


KBD – 2.75 x 15 NC LCX / 2.75 x 15 stent balloon OM
– 14 atm

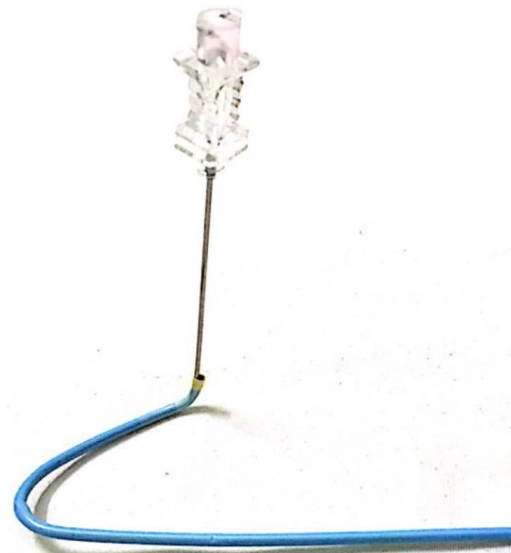
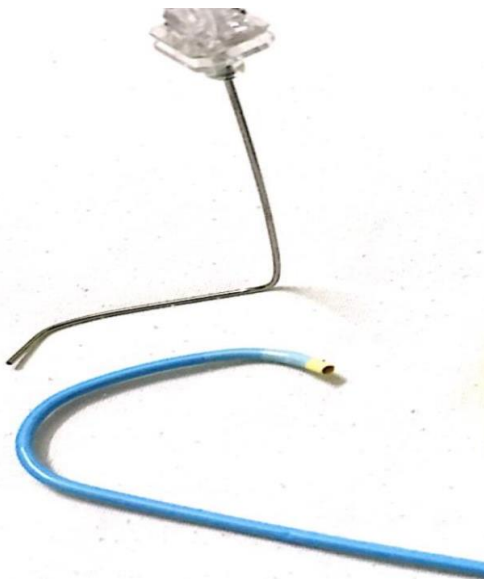
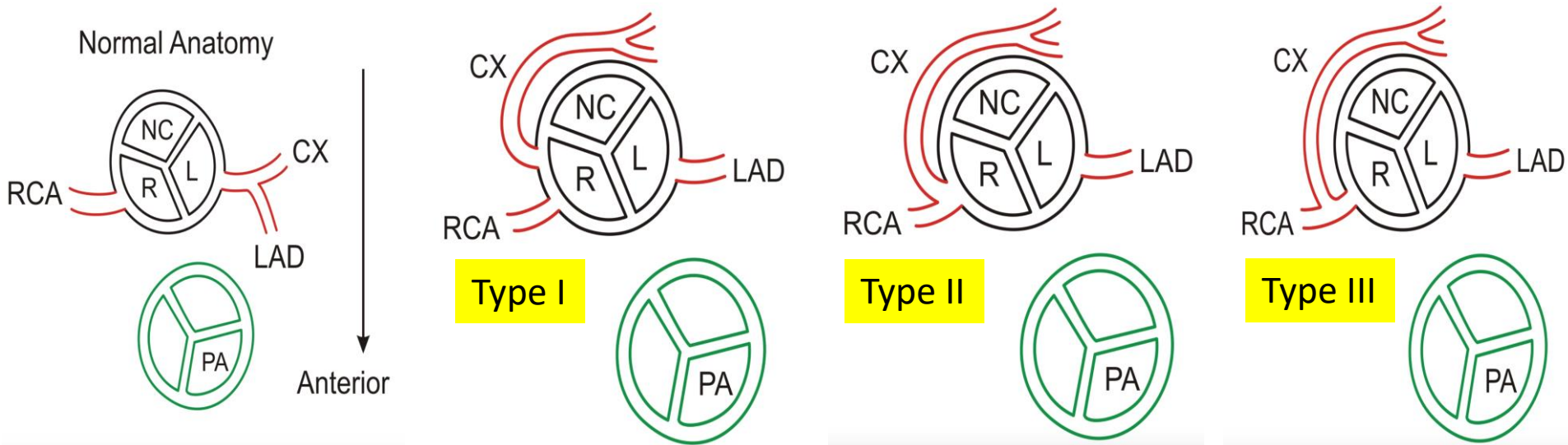
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Types of anomalous LCX



Conclusion

- Anomalous coronaries with true bifurcation is technically challenging subset.
- In type I (separate origin) anomalous LCX from RSOV, adequate and coaxial guide support is essential. Options include multipurpose (MP – A), JR and AR.
- As a last resort, catheters can be shaped with posterior bend with guidewire introducer needle and dipping alternately in hot and ice-cold saline.
- Guide catheter support was enhanced by extra-support wire in main vessel (which does not require re-crossing).
- TAP technique is useful in such difficult situation due to its simplicity among other techniques with least number of steps and re-crossings.