

One of My Most Memorable PCI CTO

ROSLI Mohd Ali Cardiac Vascular Sentral Kuala Lumpur rosliali@cvskl.com



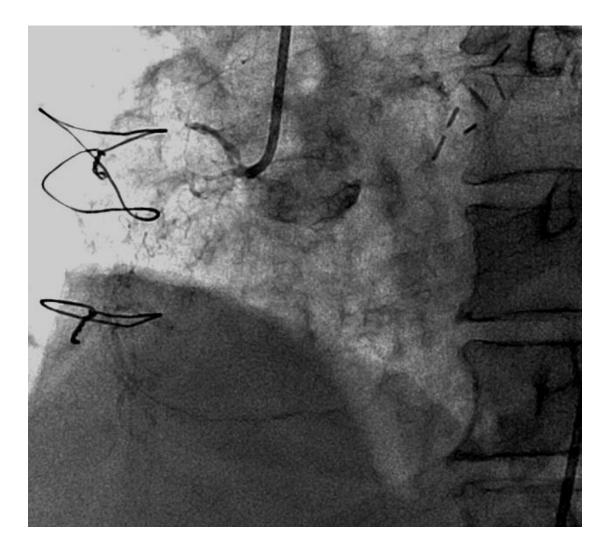
75 yr old man

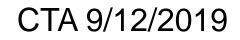
 Coronary artery disease CABG in 1997 Recurrence of angina – 4 yrs in CCS III

CTA Coronaries LIMA to LAD, SVG to D1 – patent with no obstruction SVG to PD and OM – occluded LMS – occluded, RCA - CTO

- 2. Hypertension 1996
- 3. Dyslipidaemia 1996
- 4. Smoker
- 5. Peptic Ulcer Disease
- 6. Spinal stenosis













Strategy

After reviewing CTA Coronaries & Coronary Angiogram

LCx – smallish

RCA – large vessel

Plan

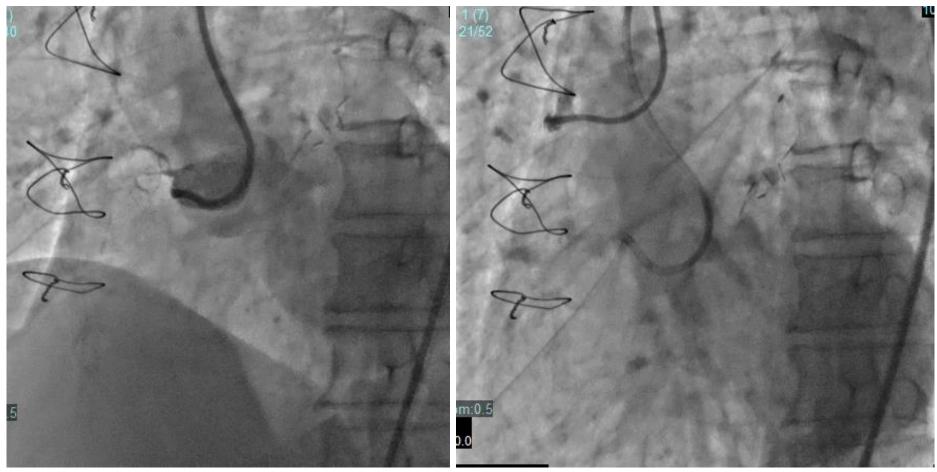
- 1. Antegrade wiring Knuckle technique
- 2. PCI SVG to PD Br. Retrograde to CTO RCA (CART or Reverse CART)

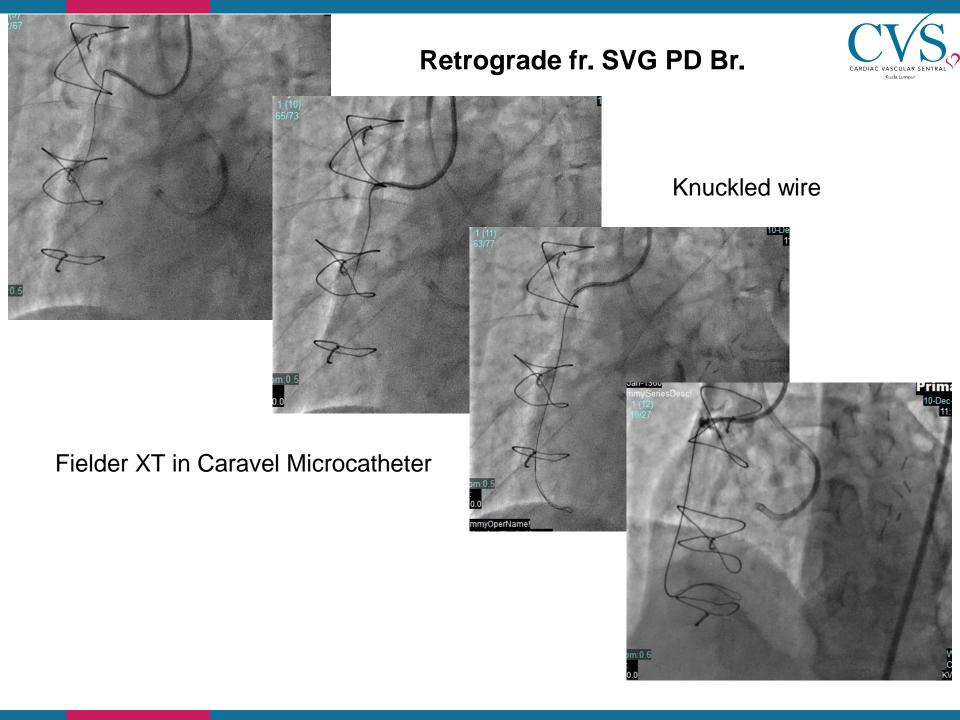
Rt TRI (6Fr.) & Rt FA (7 Fr)



7 Fr. Guide Cath could not engage SAL 1, SAL 1.5, SAL 2, AL 0.75, JR 3.5 AL 1 - closest

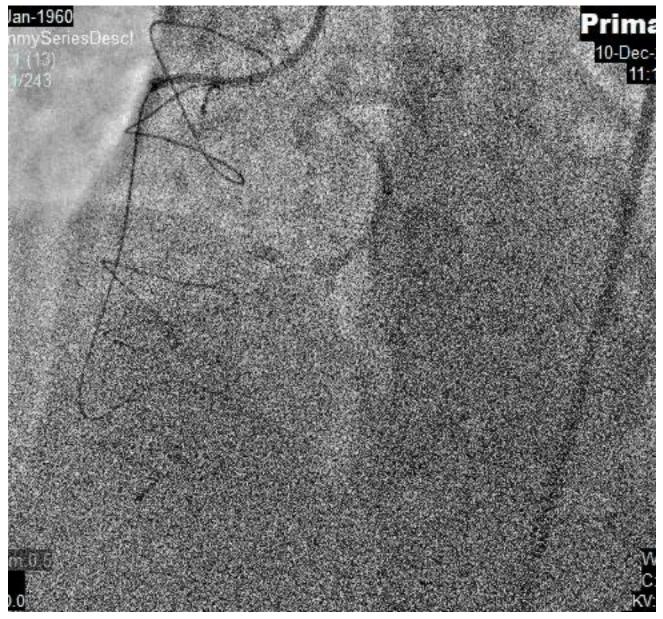
Guide Cath AL 1, 6 Fr (MP, JR 3.5 could not engage)





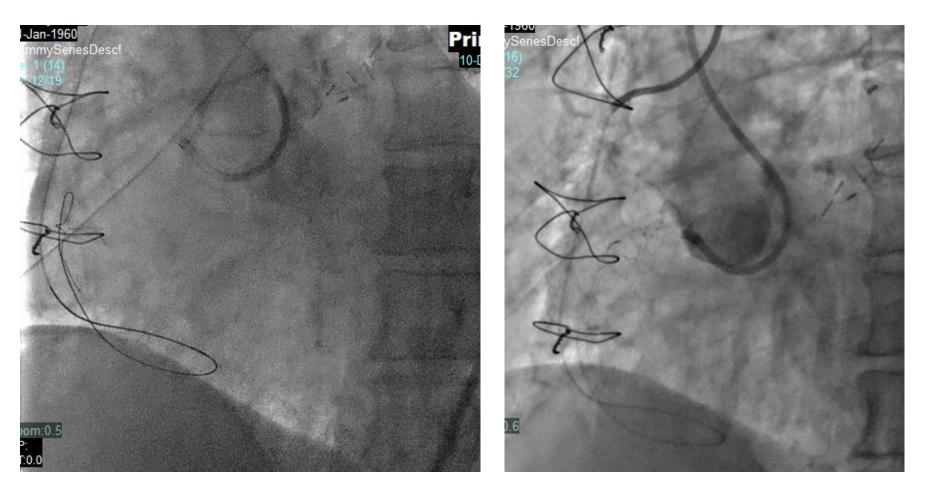
Knuckled wire

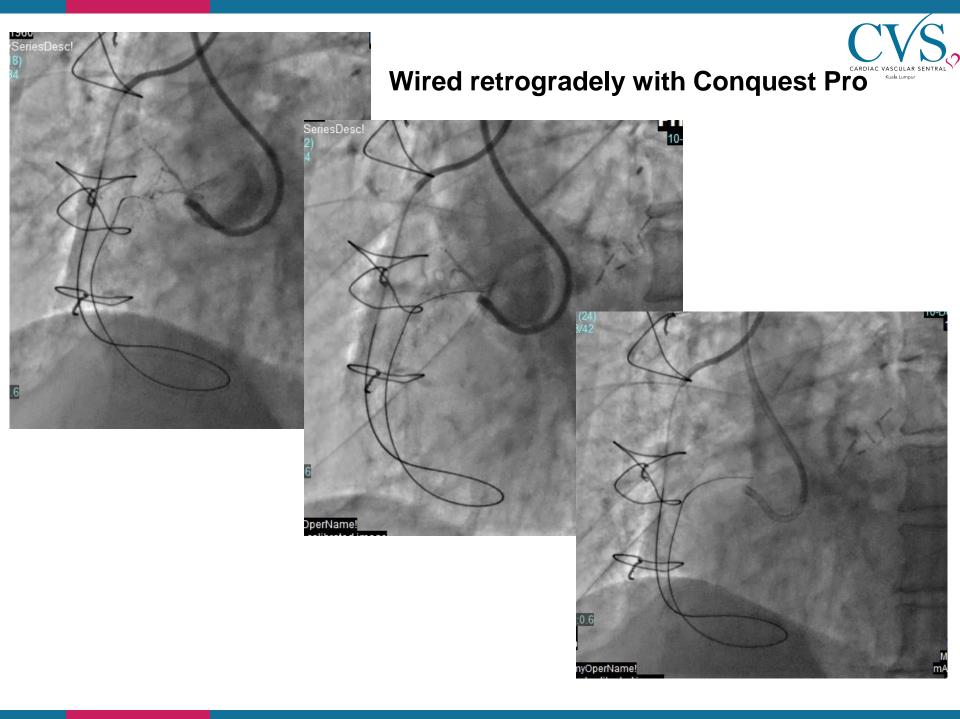




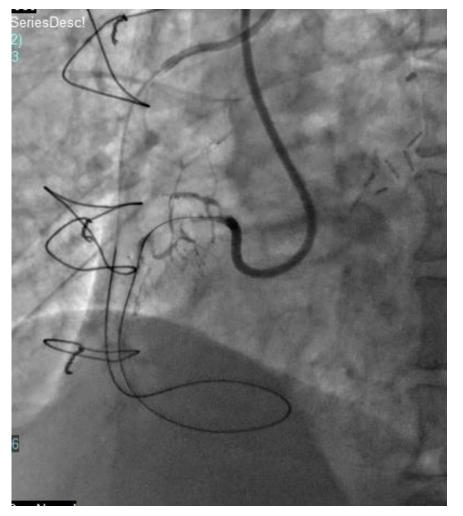


Knuckled wire



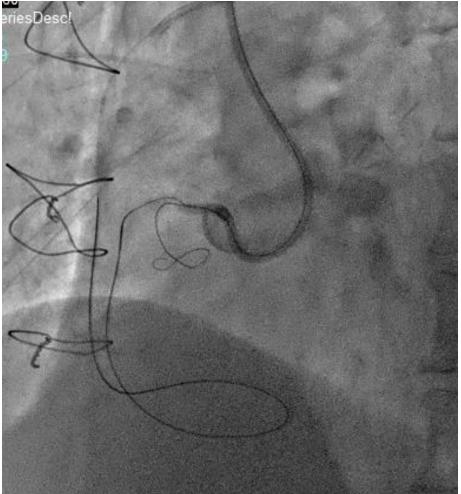


Changed Guide Cath to AL 1.5, 7Fr Wire subintimal & Cannot enter into guide cath



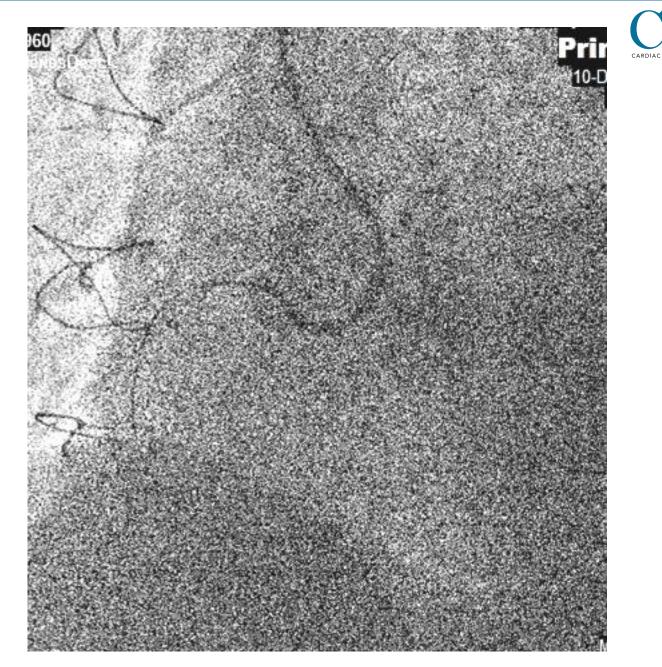
Reverse CART

Wired into small branch POBA with 1.0, 1.5, 2.0 & 2.5 mm balloon





Conquest Pro Entered into Guide Cath.

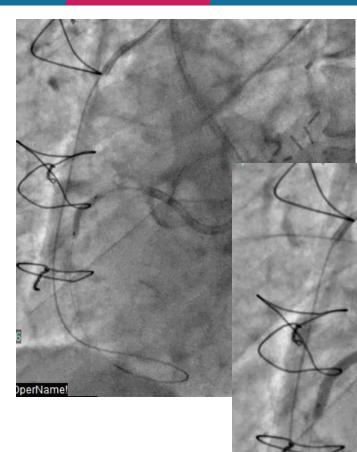


Kuala Lumn

Dissection in Aortic Cusp



Conquest Pro wire taken out Exchanged with RG3 wire - Externalised it



OperName!

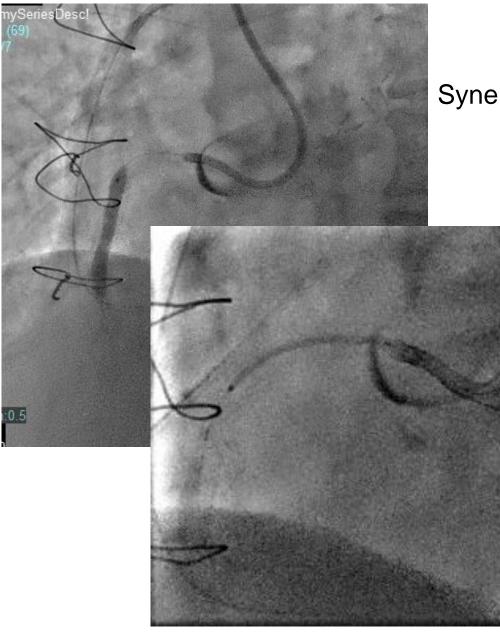


Prima 10-Dec-2 11:1

POBA 2.5 mm & 3.25 mm NC balloons - Burst

3.5 mm NC balloon

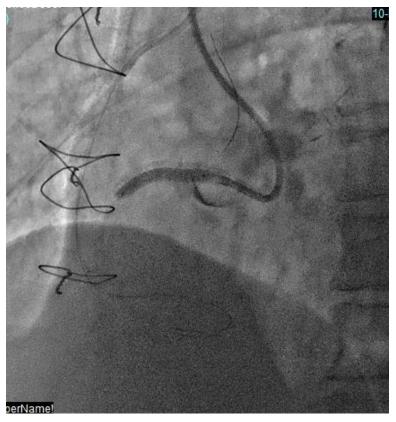






Synergy 3.5 x 28 mm – 16-18 Atm

Synergy 3.5 x 24 mm Szabo technique 20 Atm





Stent Boost & Angiogram Showed A Gap

Post-stenting Gap between both stents

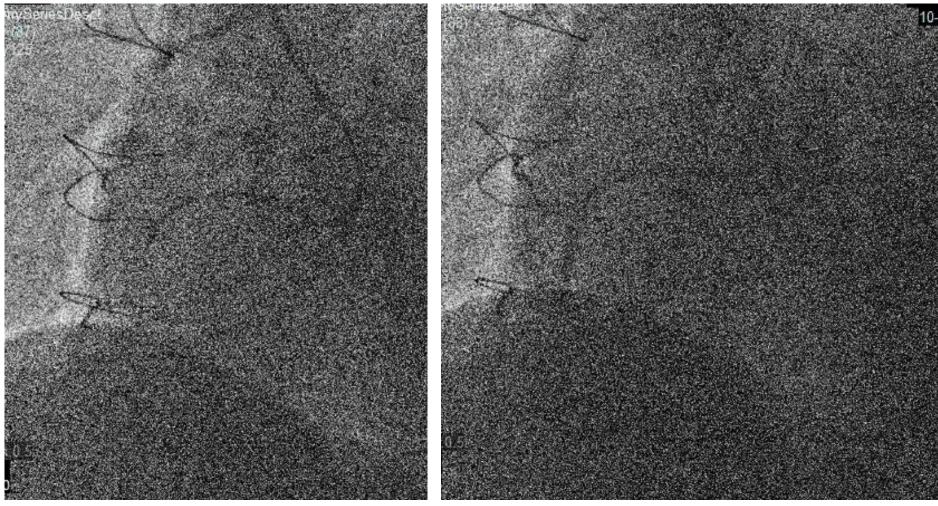
an-1960 mySeriesDesc!

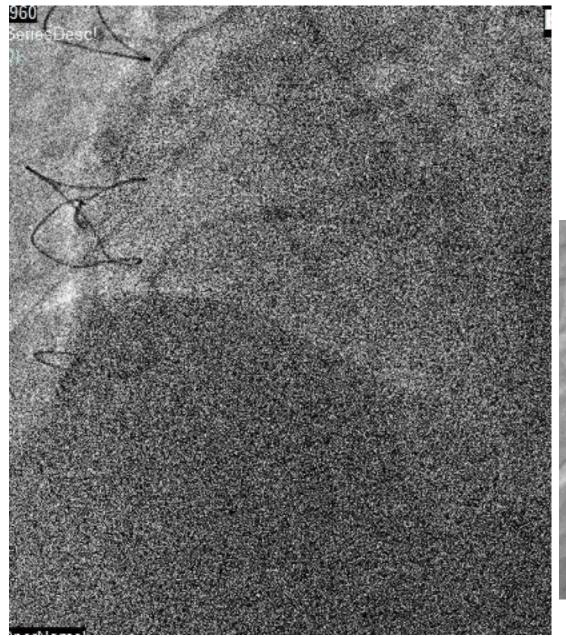
n:0.5

Synergy 3.5 x 8 mm got caught at distal stent struts (even after 3.5 mm OPN NC at 30 Atm) Guidezilla 2



Active engagment of Guidezilla 2

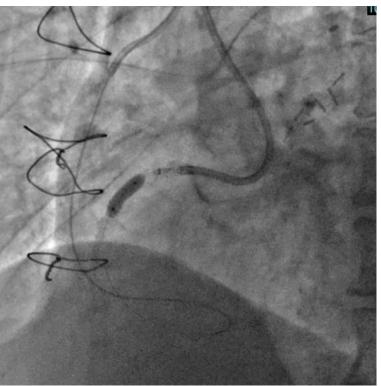






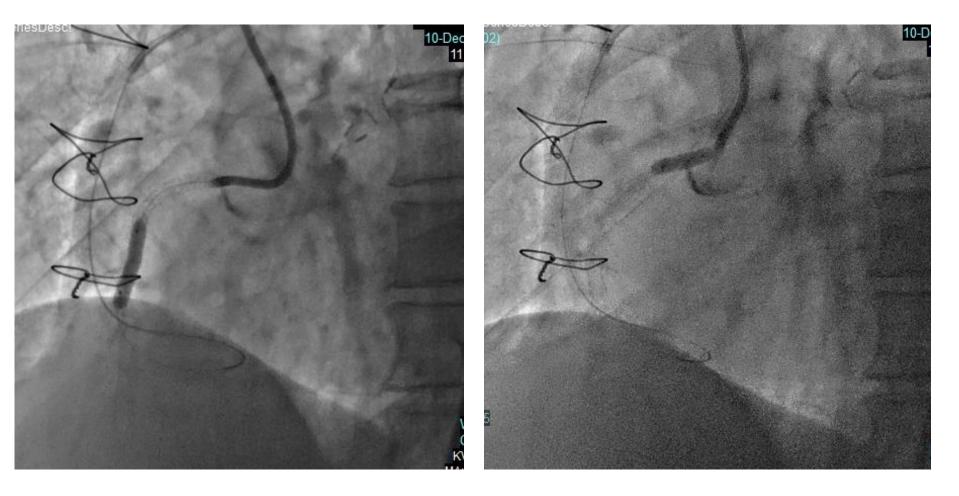
Stent Positioning & Guidezilla 2 pulled back

Stent deployed at 20 Atm





Post-dilate OPN NC 3.5 mm at 36 Atm



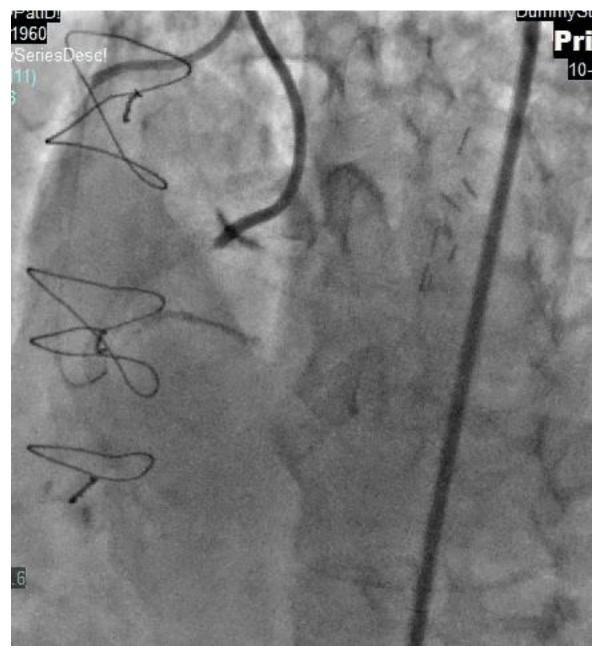


Final Shot

Aortic Root Dissection



Final Shot





Post-PCI



Angina Score 5/10

ECG – Mild ST depression in inferior & anterolateral leads

ECG following day - no changes

CKMB - 31.1 ng./ml (normal <4.9) Troponin T - 202 ng/L (normal <50)

PCI on 10/12/20129 afternoon Discharged on 12/12/2019

Planned DAPT for 6 to 12 months depending if there is any bleed (? Peptic Ulcer)

Seen his cardiologist late Feb. 2022 – Asymptomatic & Well



Interesting Aspects

- 1. Usefulness of CTA Coronary
- 2. Retrograde via SVG
- 3. Use a soft wire in micorcatheter for knuckling
- 4. May dilate SVG to allow easier passage of devices
- Reverse CART & working on the RG3 wire without wiring wire antegradely
- 6. Use of Szabo technique for positioning of stent at ostium
- 7. Active guide extension delivery (Guidezilla 2)
- 8. Aortic cusp dissection
 - care with antegrade injection