

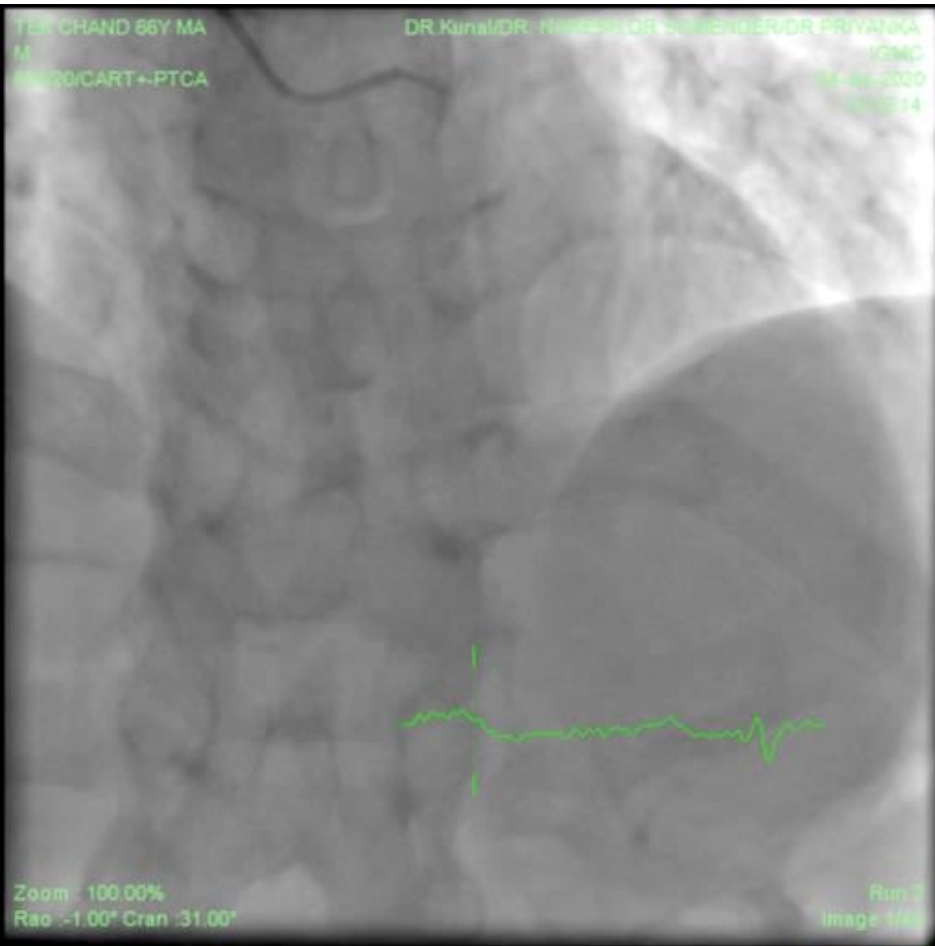


An unusual case of deformation of ostial left main stent

Patient's details

- 66 years old male patient
- History of Hypertension, Smoker
- Non-diabetic
- Suffered from ST elevation-Anterior Wall MI (post-thrombolysis) and presented on day 2 with Post MI Angina
- KILLIP- class 1, BP=130/80 mm Hg
- SPO2=98%
- Echocardiogram= Mild hypokinesia of LAD territory, EF=45%
- RT-PCR for COVID Negative
- S.Creatinine- 1.1 mg%, Haemoglobin=14.2 g%, Random blood sugar=121 mg%

Right radial artery –Coronary angiography

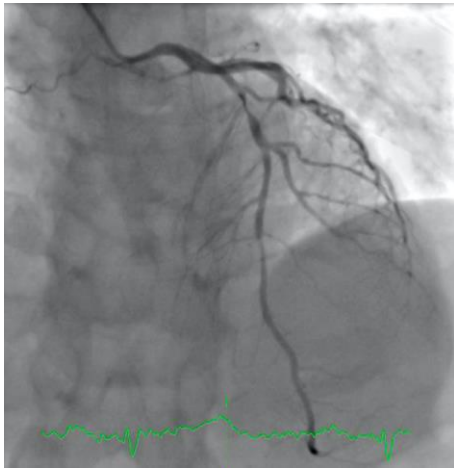


Diffuse LAD disease with 90% stenosis in mid segment



Large Diagonal-1 arising from diseased segment,
LCX was normal

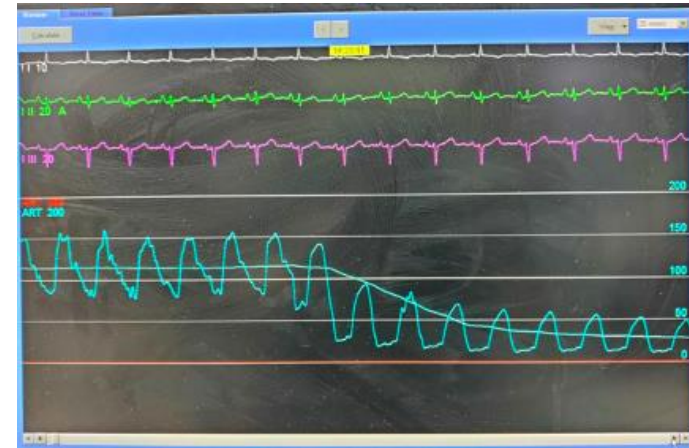
Angiography, right radial



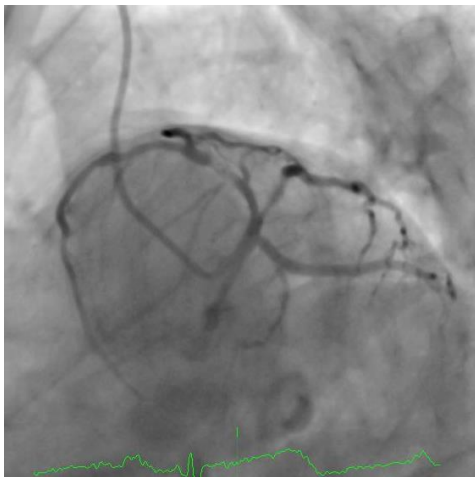
Diffuse LAD disease with 90% stenosis in mid segment



Ostial LMCA disease



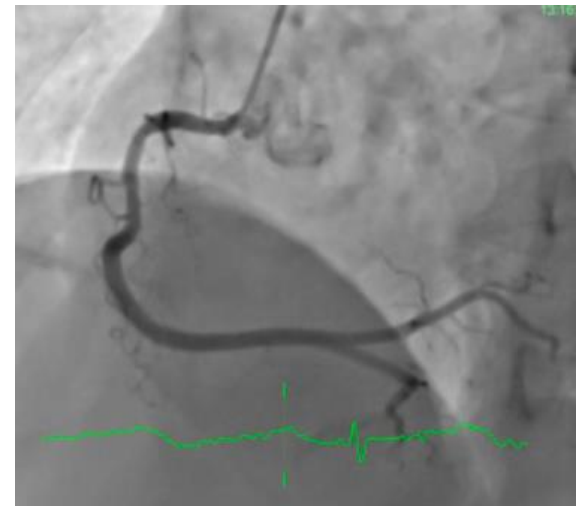
Ostial LMCA disease, pressure dampening and ventricularization while hooking with 6F guide catheter



Large Diagonal-1 arising from diseased segment, LCX was normal

Angiography Findings

- Single vessel disease with ostial LMCA disease
- LAD/D1 bifurcation
- D1 disease limited to ostium
- LAD diffuse mid-distal disease
- RT dominant circulation

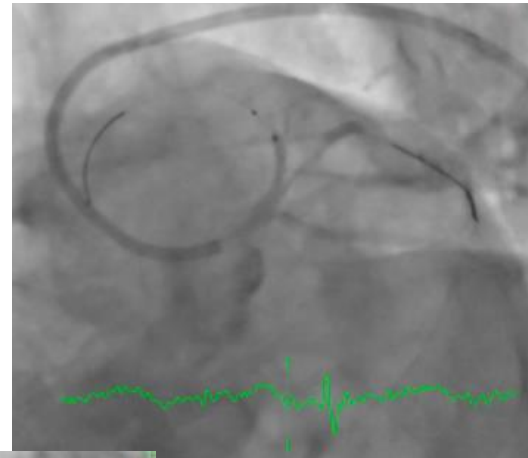


RCA was normal

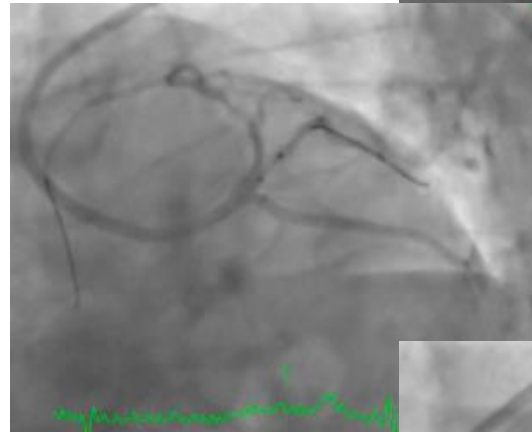
Plan Ostial LMCA to mid LAD stent- single stent- provisional cross over strategy

PLAN

- **7 F JL** femoral Approach
- wire both LAD and D1 and predilate both.
- **Ostial LMCA to mid LAD stent (3.5x48 mm)** with provisional cross over strategy across D1.
- POT with **4.5X8 mm** NC balloon
- Distal LAD lesion looked diffuse and non-critical, so planned for medical therapy



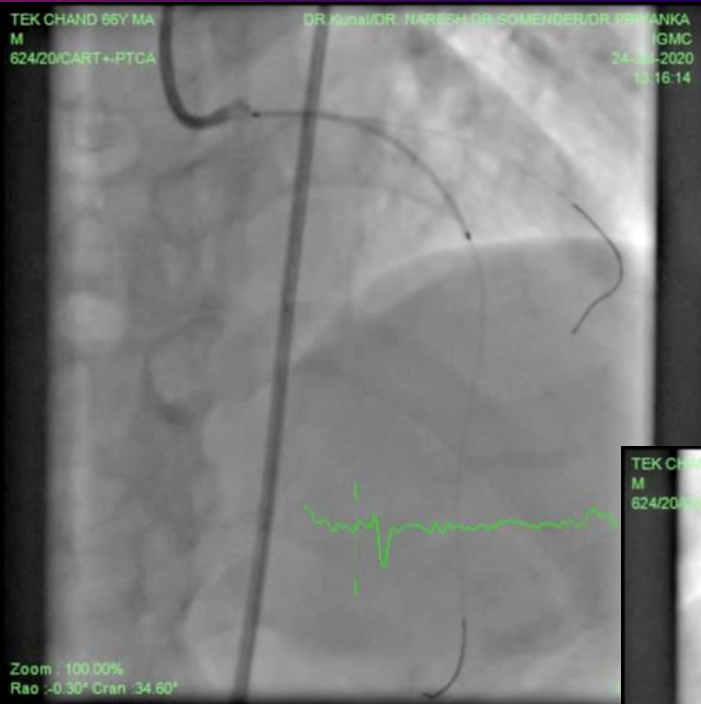
Predilation of LAD
2.5x10 mm Balloon



Predilation of Diagonal ostium
with 2.5x10 mm Balloon



After predilation of
diagonal-Good result



Stent 3.5x48 covering
left main ostium (aiming
1-2 mm protrusion)

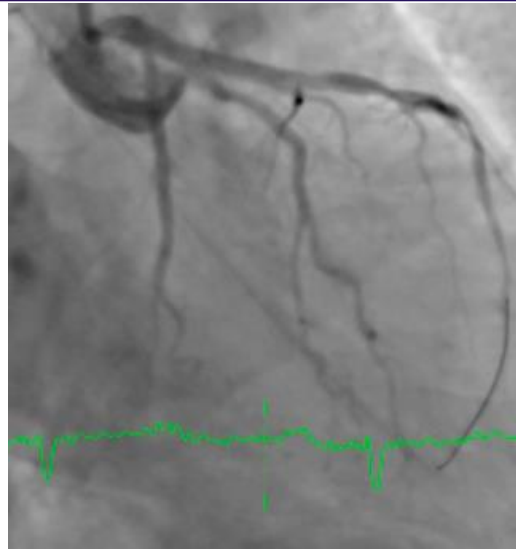
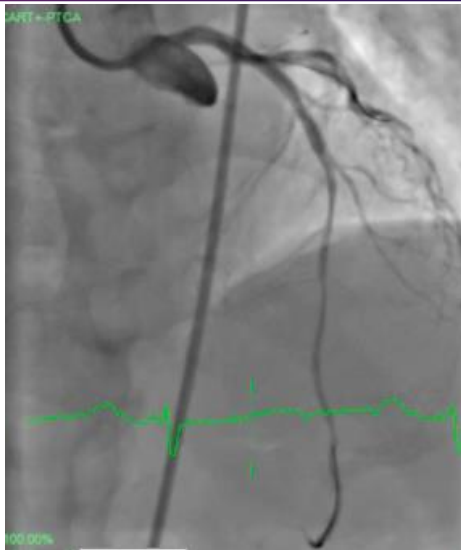


Stent deployed and ostial faring done



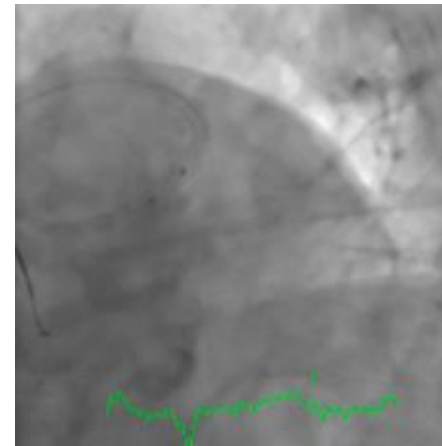
POT done with 4.5x12
mm NC Balloon

Result



Excellent result achieved across the target lesion, but now the distal LAD lesion started looking significant, so planned to fix it as well

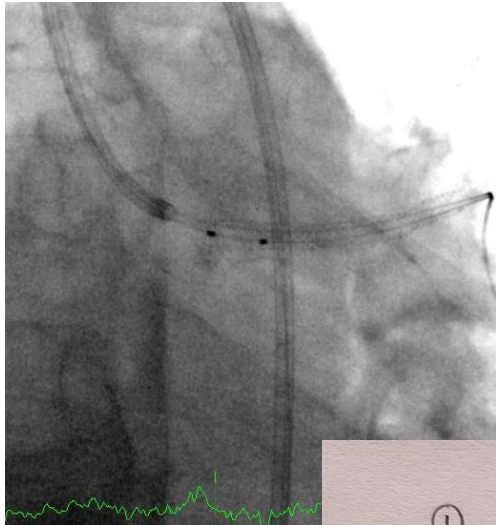
At this Moment Unfortunately the wire came out inadvertently, Faced a great difficulty in re-hooking the guide catheter, and then repassed wire easily, without realizing from where it was reentering-luminal or abluminal



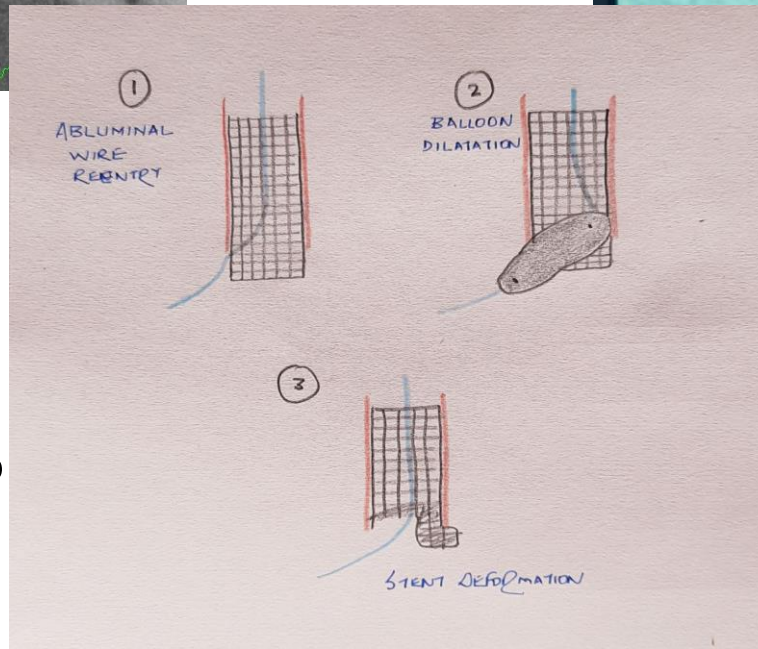
Did Repeat POT with a new 4.5x8 NC balloon to negate any possible guide induced deformation, That was my biggest mistake, **and I didn't realise what mistake I was doing**

Ostial Stent Deformation

By the time I realized, It was too late
---STENT DEFORMATION



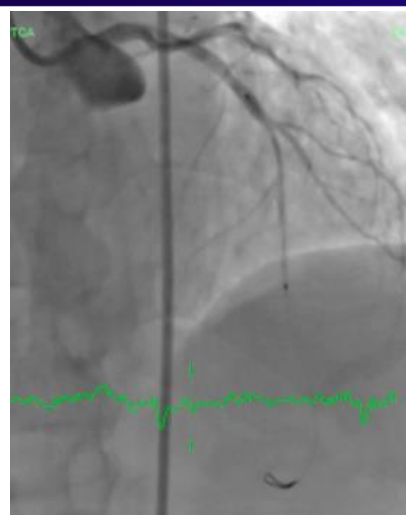
Most scary stent boost image you
would ever like to see in a LMCA case



This is what had
happened?

What Next?

Had to cover the uncovered
ostium of LMCA with
another stent,
Second needed to avoid
double layer of stent across
LCX



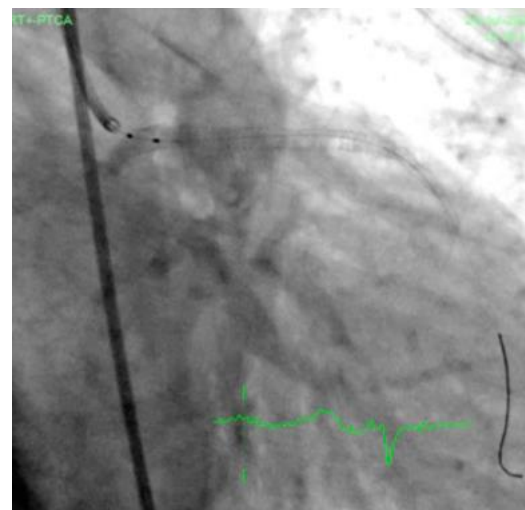
Deployed another 4x9 mm stent
covering uncovered LMCA ostium

After second stent across LMCA
ostium

2.5x48 stent across distal LAD lesion

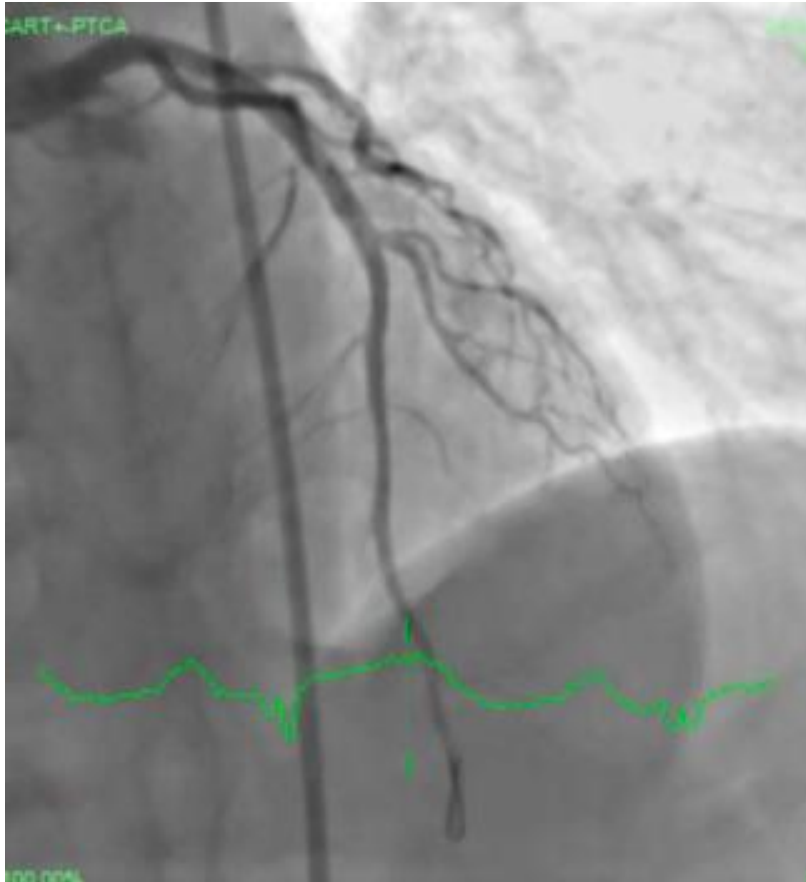


Mid-distal post dilation



Repeat POT 4.5X8 NC Balloon

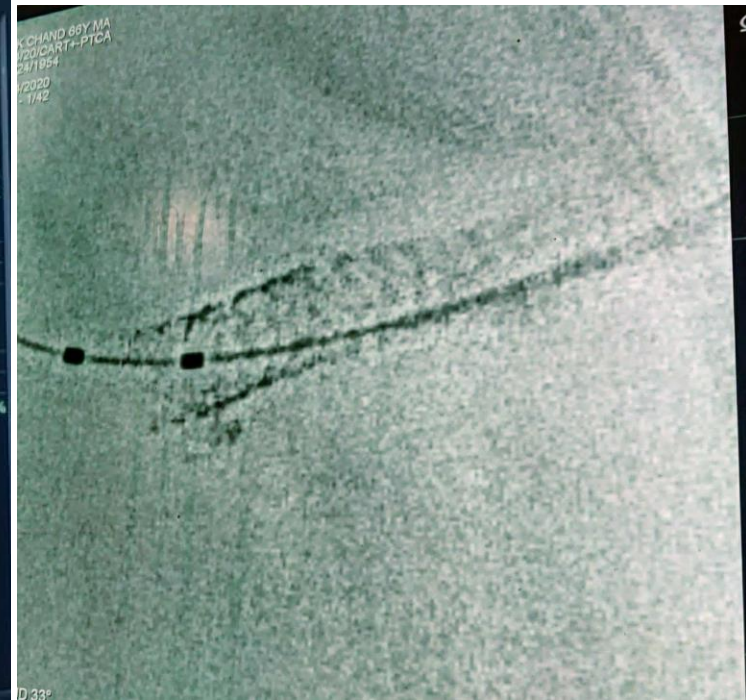
Excellent Final Result



- Deformed Ostial stent



- After repeat stenting across deformed segment



- Completed 10 months of follow up, Doing well so far
- Asymptomatic, and On Prasugrel plus Aspirin combination
- Lets hope he does well for long!!!

- Never loose the main branch wire during PCI
- When doing ostial LMCA stenting , take care of all distal lesions first.
- After ostial LMCA stenting, do flare/POT, and come out, keep guide re-engagements/ hardware passage to minimal.
- If wire is somehow lost during ostial LMCA PCI, always re-enter with a looped wire, and if oxford-balloon doesn't pass easily, suspect abluminal entry
- Use stent boost/ preferably imaging to confirm the luminal reentry