Aortic & LM type F spiral dissection
with occlusion of LAD & LCX in
a patient with mid-LCX CTO

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Case: RT, male, 51 yrs. old

- History:
  - Asymptomatic
  - Risk factors: Hypertension, Dyslipidemia, DM

- PE: BP 150/90
- Lab: normal
- ECG: ST depression and neg T waves in V4-6
- Chest film / echo: normal
- Treadmill: positive for ischemia
Male, 51 yr.o, *asymptomatic*, normal ECG

50% stenosis of LADp at the D1 bifurcation

CTO of LCXm (target lesion)
On PCI, performed one week later:

Sudden chest pain with very prominent ST elevation right after guiding catheter engagement (BL3.5, 7F),

LM type F spiral dissection extending to the LAD, D1 & LCX

Dissection also involved the aorta
What would you do?

1. Immediately send the patient for CABG
2. Immediately insert an IABP
3. Immediately stent the LM ostium
4. Immediately stent the LM and LAD (& leave the LCX as is)
5. Relax, try to solve all problem one-by-one
Rapid worsening of spiral dissection leading to total occlusion of the LAD

Successful wiring of the LAD & LCX. **LAD was completely occluded**
After balloon dilatation of the LAD. **D1, which was an important vessel, was fed from the false lumen.** D1 was very difficult to wire
What would you do?

1. As time is critical, forget about the D1. We want the patient survive & most important is to fix the LM/LAD
2. Immediately send the patient for CABG
3. Immediately insert an IABP
4. Immediately stent the LM ostium
5. Immediately stent the LM and LAD (& leave the LCX as is)
5. Relax, try to solve all problem one-by-one
Miracle 6 wire was used to puncture the dissection flap to enter D1, then D1 ostium was dilated
Stenting of LADd (Excel 2.5x28 mm)
After LADp stenting. Residual dissection in D1 was left as vessel patency & flow were still maintained.
What would you do now?
What would you do?

1. Open & stent the LCX CTO (to be followed by stenting of the LAD & LM)

2. Immediately stent the LM and LAD (& leave the LCX as is)

3. Immediately send the patient for CABG

4. Immediately insert an IABP

5. Immediately stent the LM ostium
LCX CTO was attended ....

Successful LCX CTO opening & stenting
LM-LAD & LM-LCX stenting: Crushing technique
After final kissing balloon dilatation, stenting of the LM ostium & postdilatation
After placement opening & stenting of LCX CTO; placement of 2 stents in the LM-LAD & LM-LCX using the crushing technique (& kissing balloon dilatation); stenting of the LM ostium. All stents in the respective vessels were in overlapping one to each other.

*Patient was still well 4 years later.*
After placement opening & stenting of LCX CTO; placement of 2 stents in the LM-LAD & LM-LCX using the crushing technique (& kissing balloon dilatation); stenting of the LM ostium.
All stents in the respective vessels were in overlapping one to each other
Patient was still well 4 years later.
Take Home Message:
Never, Ever Give Up!!

Good Judgment Comes from Experience,
And Experience Comes from Bad Judgment

(R. Myler)