

Case presentation

Post CABG CTO

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History

General data:

- Male patient
- 74 years
- CABG 2006 x 3
- Chronic A Fib

Risk factors:

- HTN
- DM
- Ex smoker
- Dyslipidemic

- CABG 12 years back
- Recurrent angina on minimal exertion and dyspnea
- Accelerated over last 2 months
- Admitted to CCU with unstable angina

Investigations

Laboratory tests

- S. creat. 1.2 mg%
- Uric acid 9.5 mg%
- HbA1c 7.1%
- Cholesterol 166 mg%
- LDL 114mg%
- TG 126 mg%
- HDL 27 mg%
- E GFR 52 ml/min

ECG:

- A fib
- Lateral ST – T changes

Echocardiography:

- EF 35%
- Aortic sclerosis
- Almost global hypokinesia
- Mild mitral incompetence

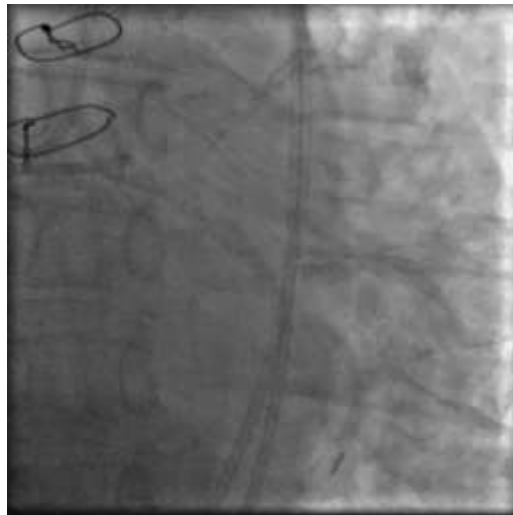
Dobutamine stress echo for viability

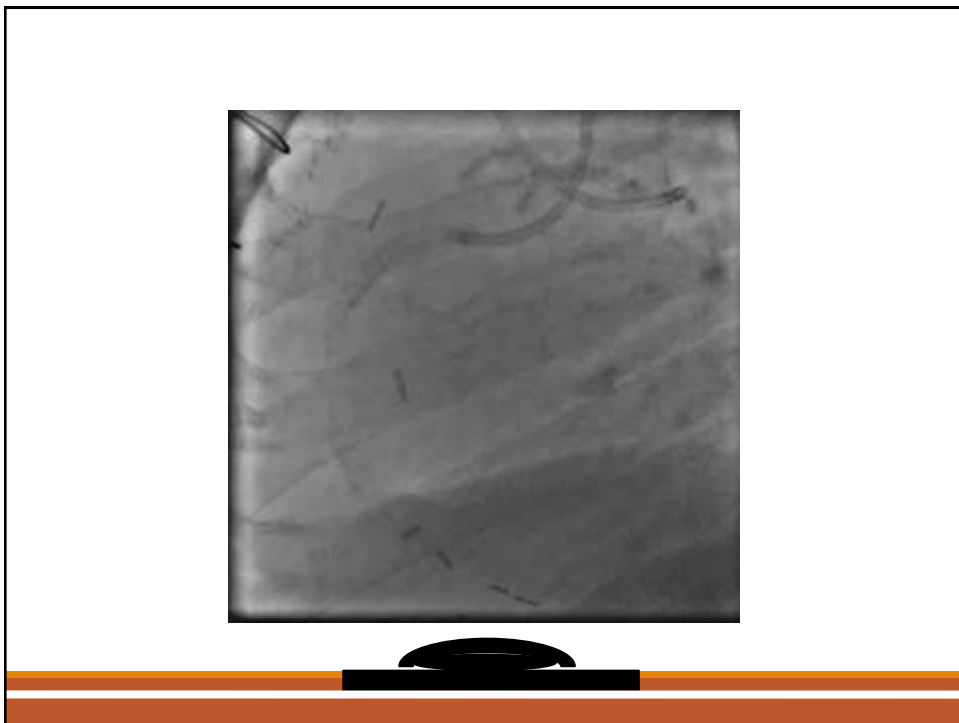
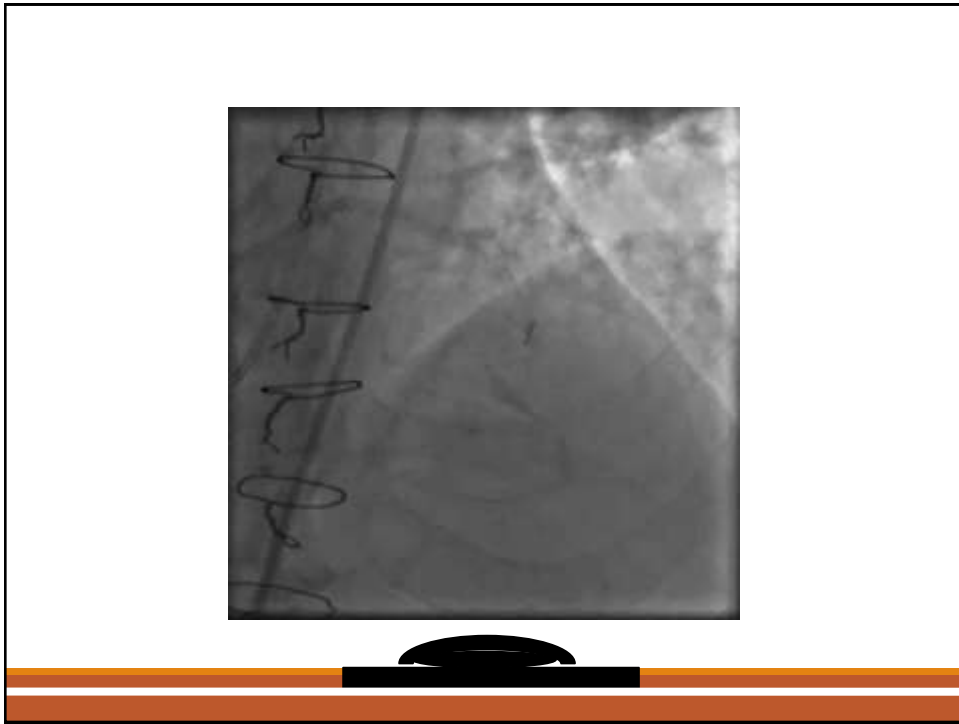
- preserved viability in all territories with improvement of the LVEF from 35% to 48%

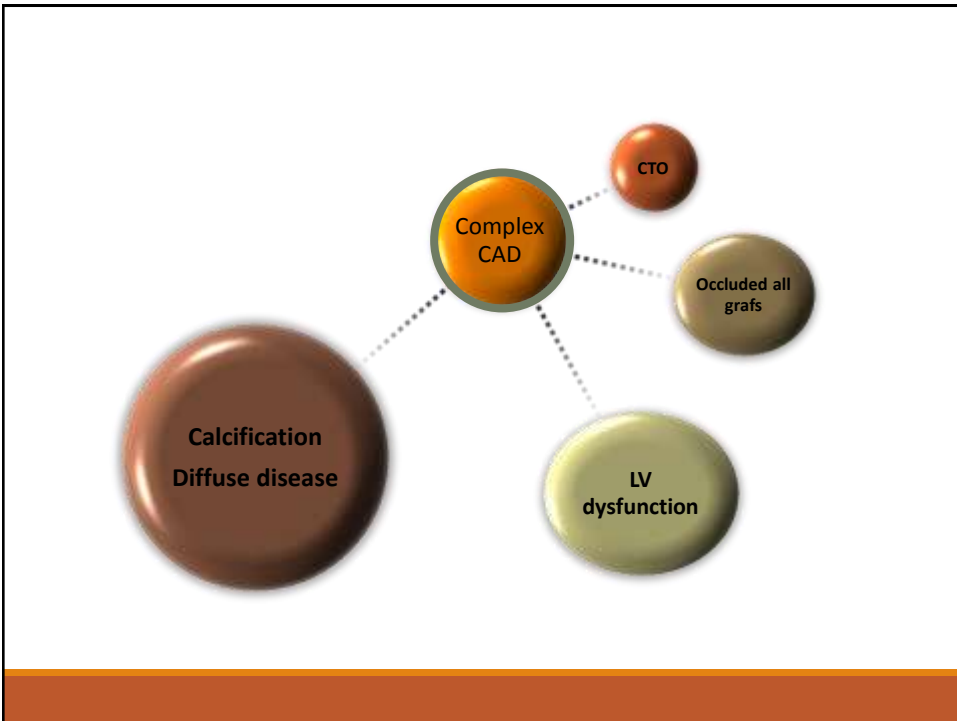
Treatment

- Clopidogril 75 mg
- ASA 100 mg
- Rosuvastatin 20 mg
- Bisoprolol 5 mg
- IV nitrates
- Enoxaparine 40 mg twice

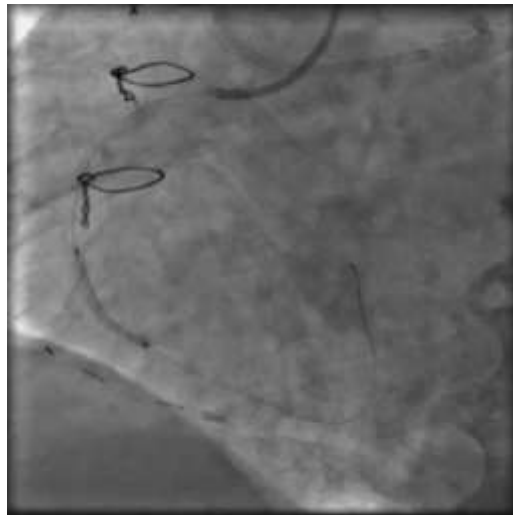
- Haemodynamic support ?





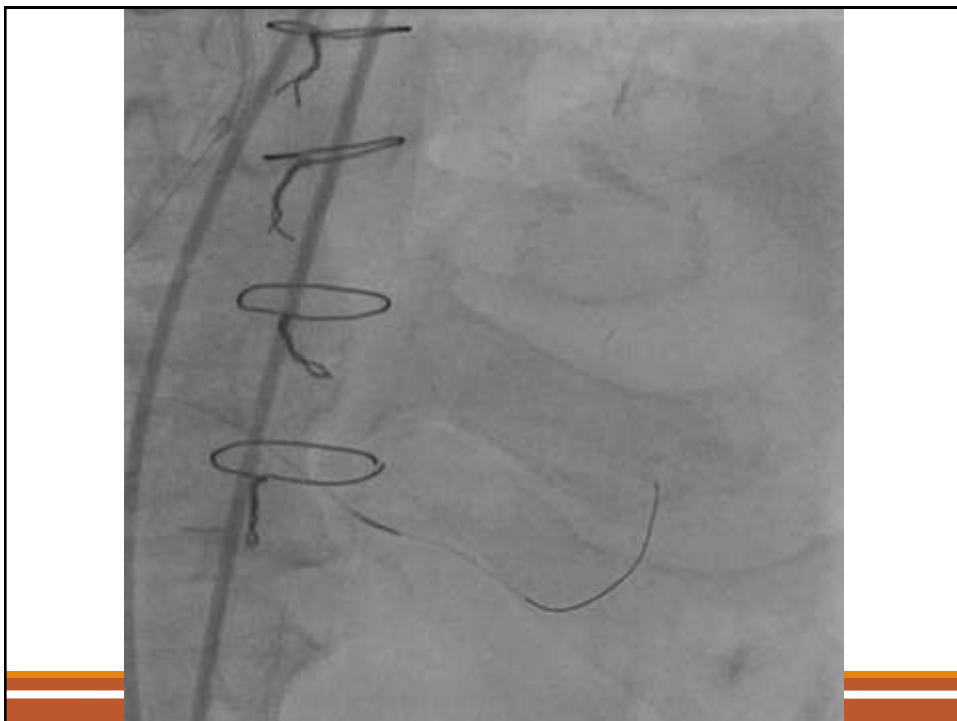


Heart Team

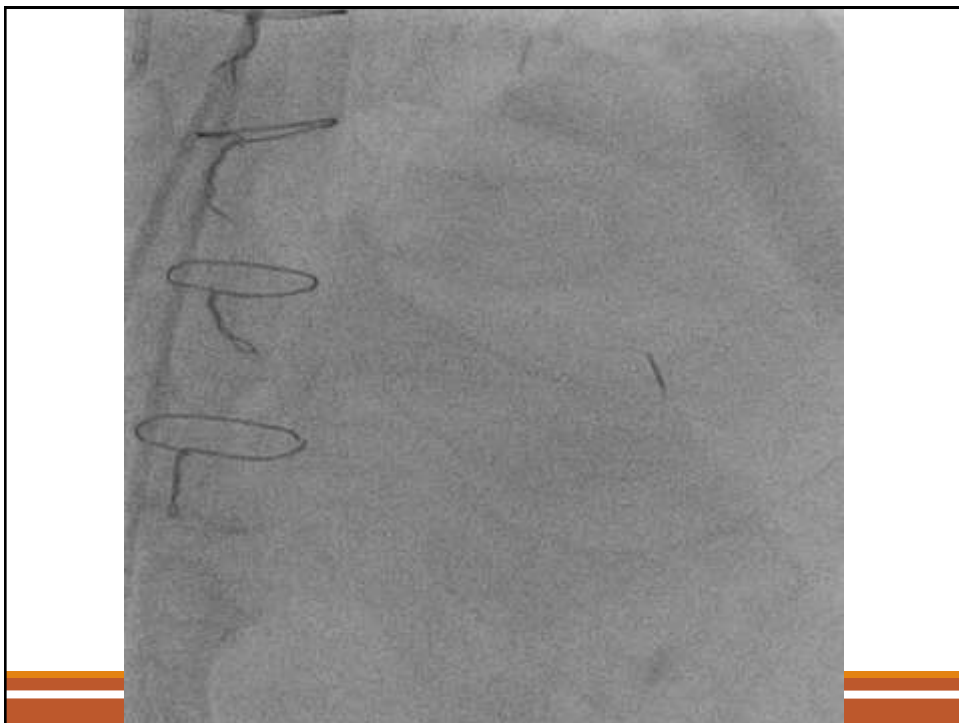


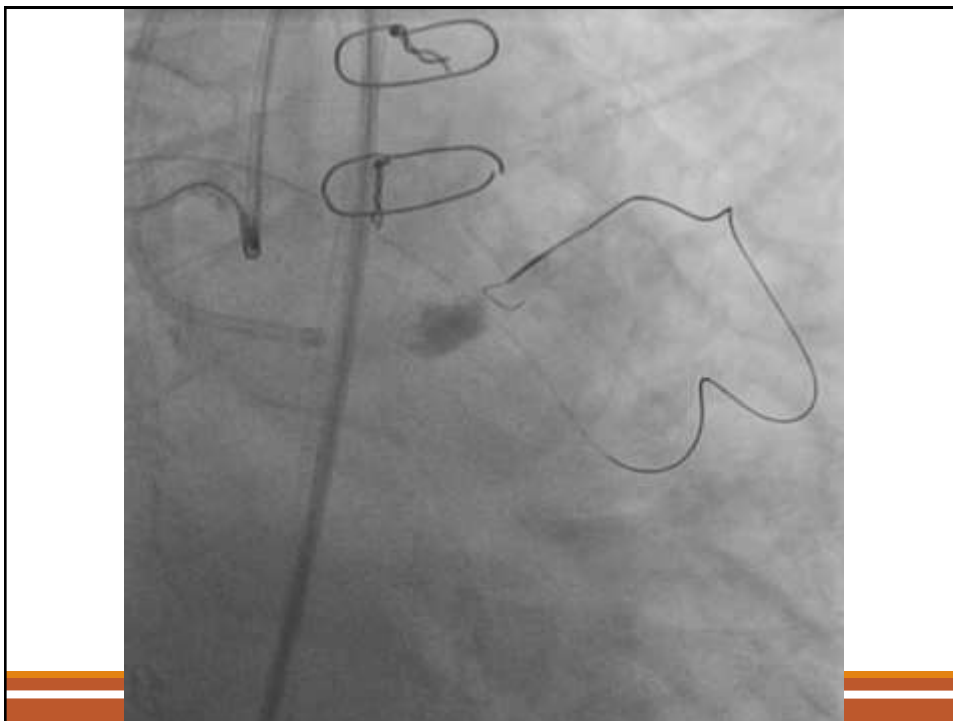
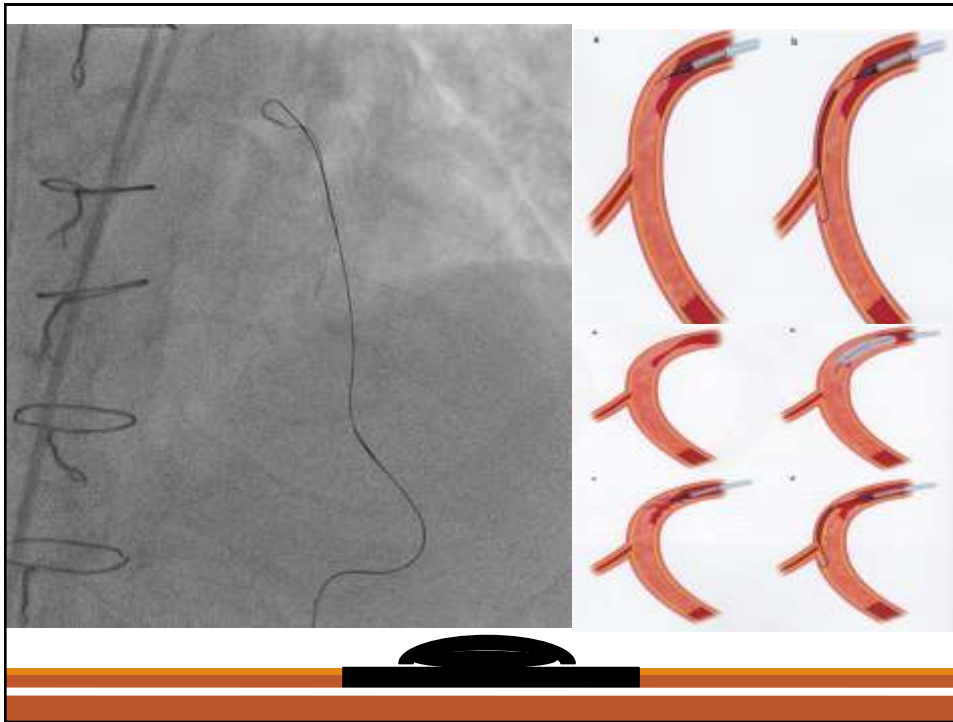


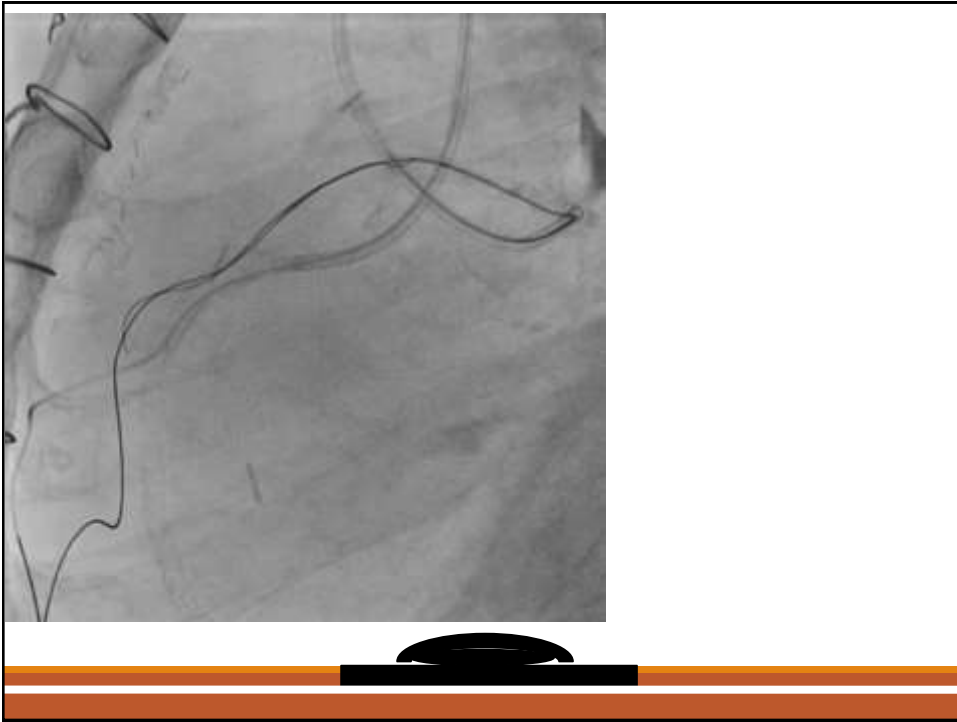


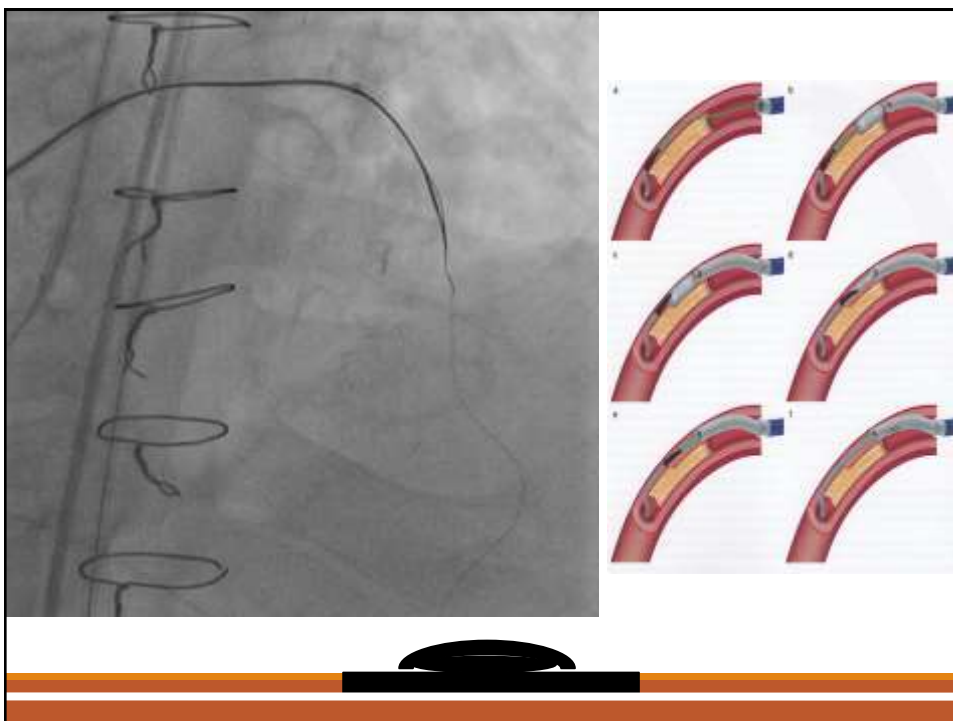
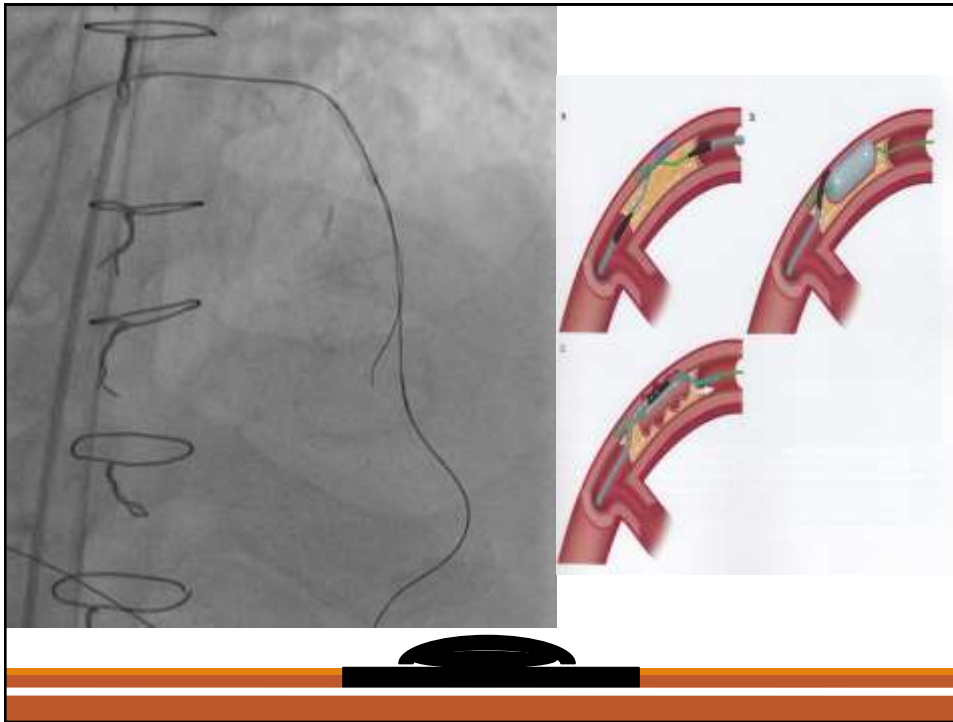


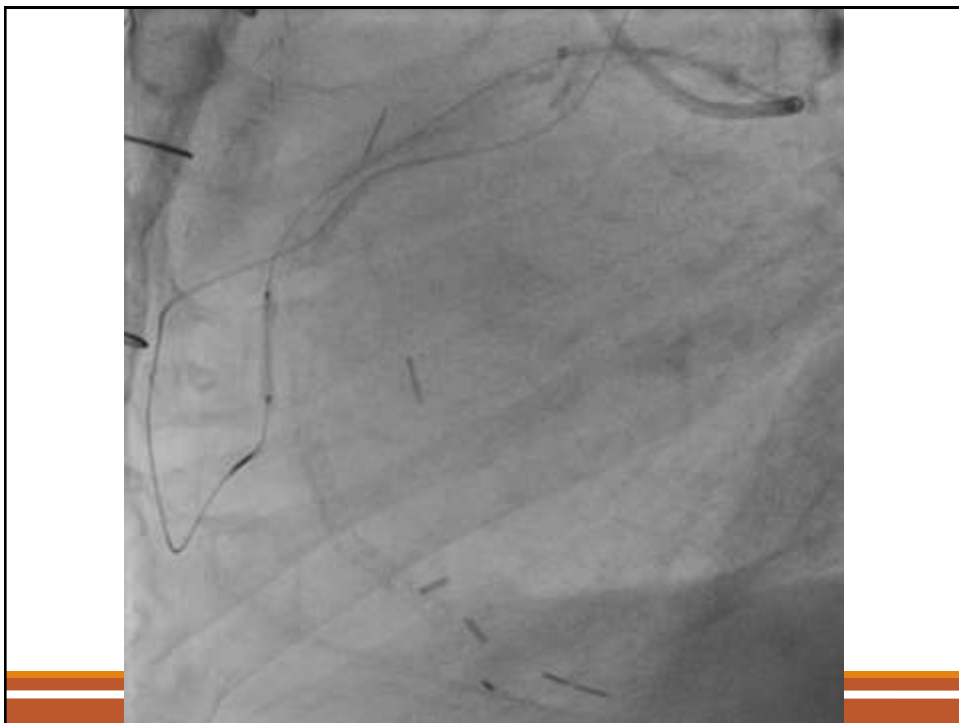
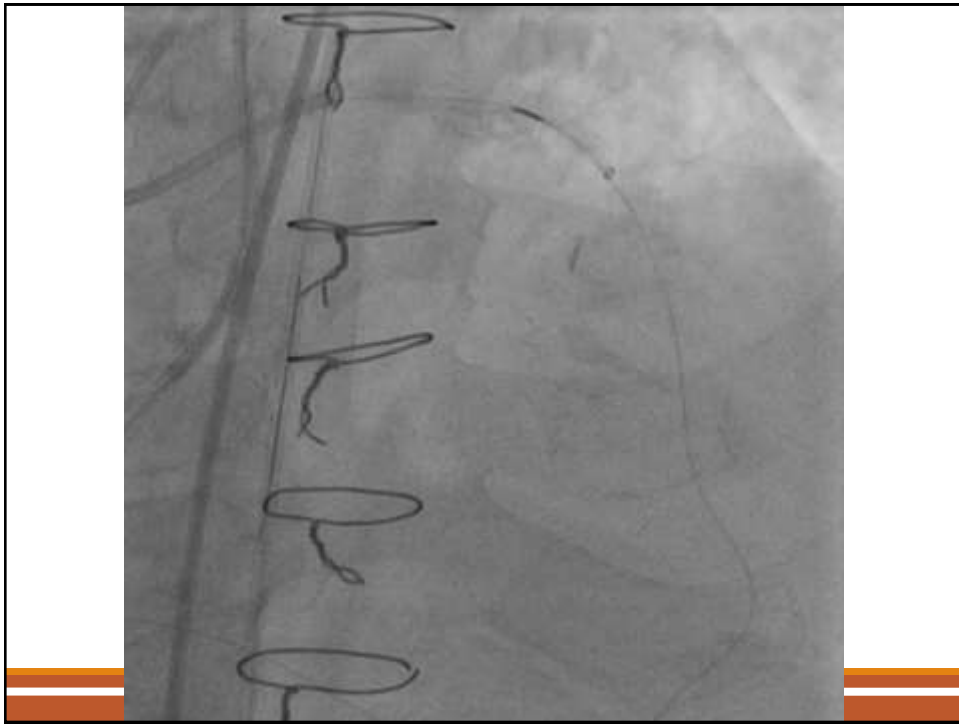


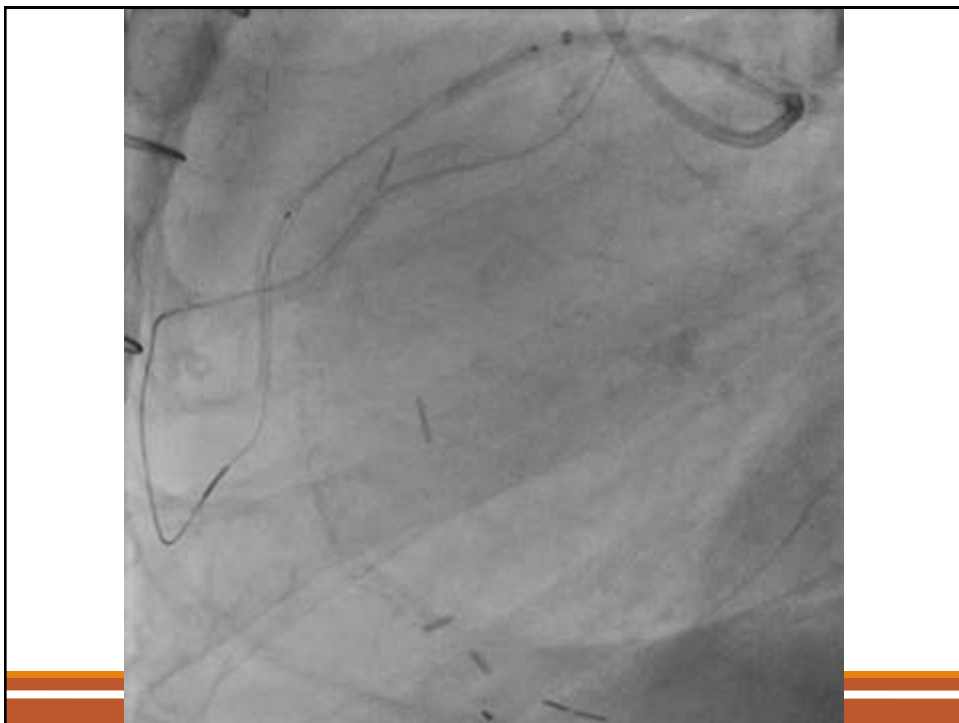
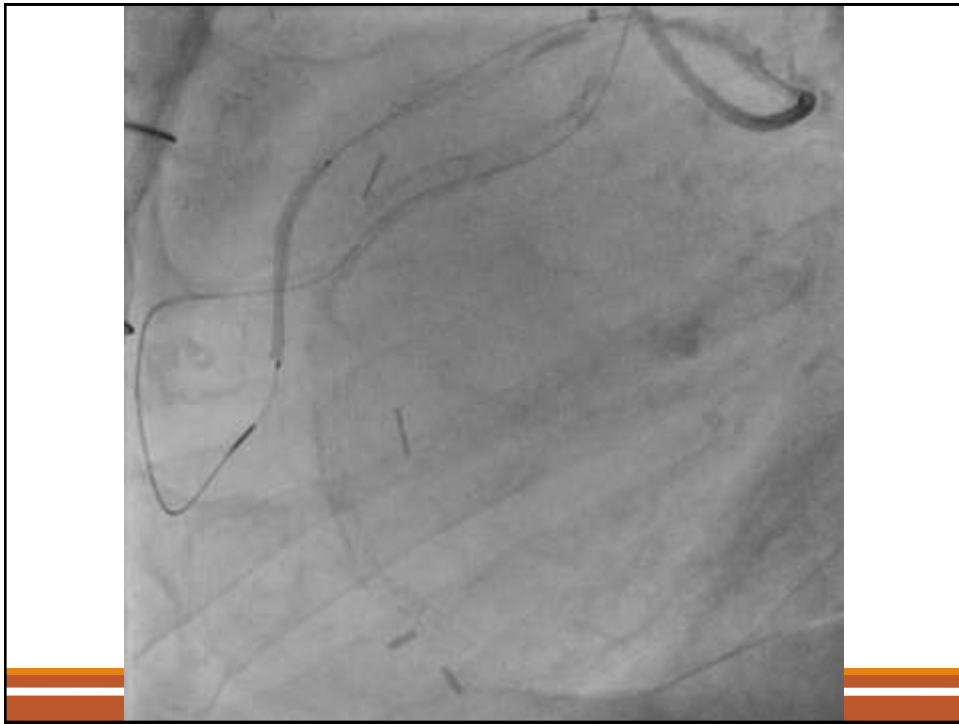


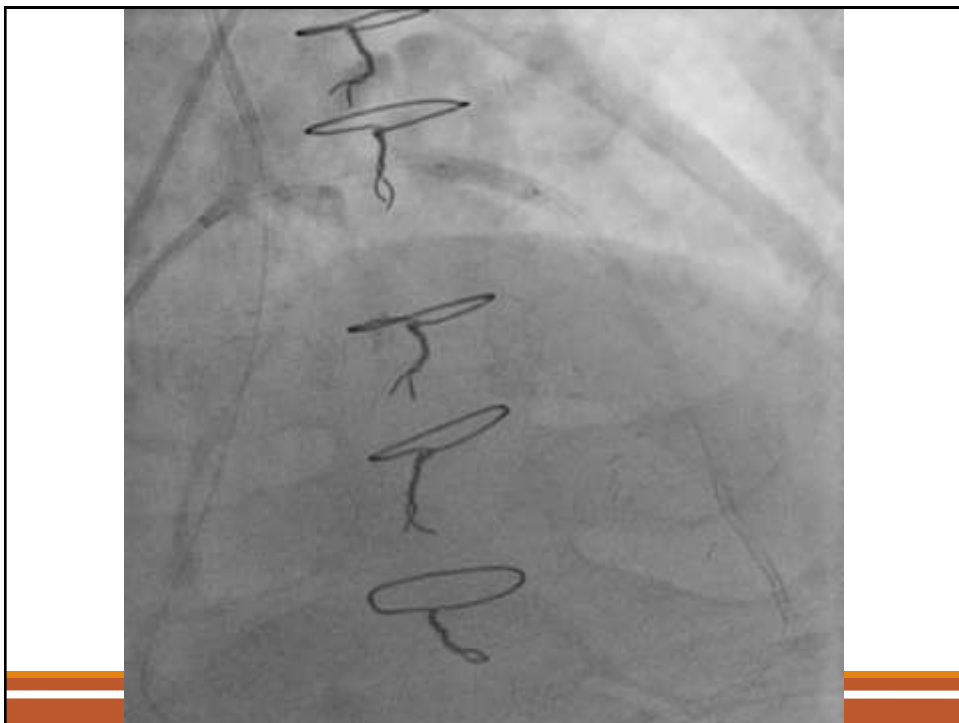
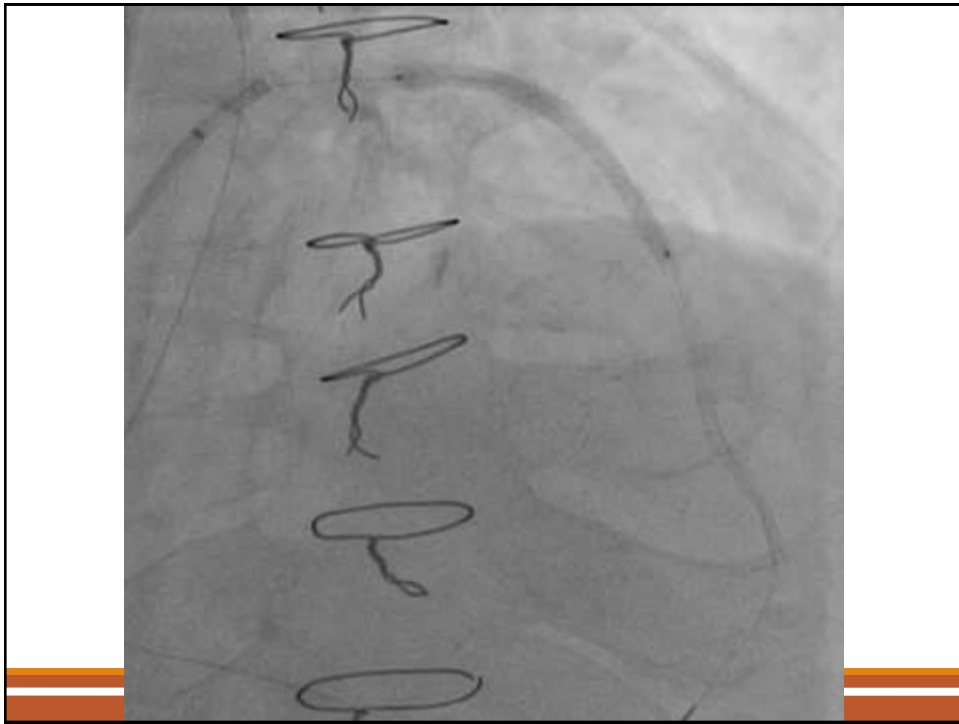


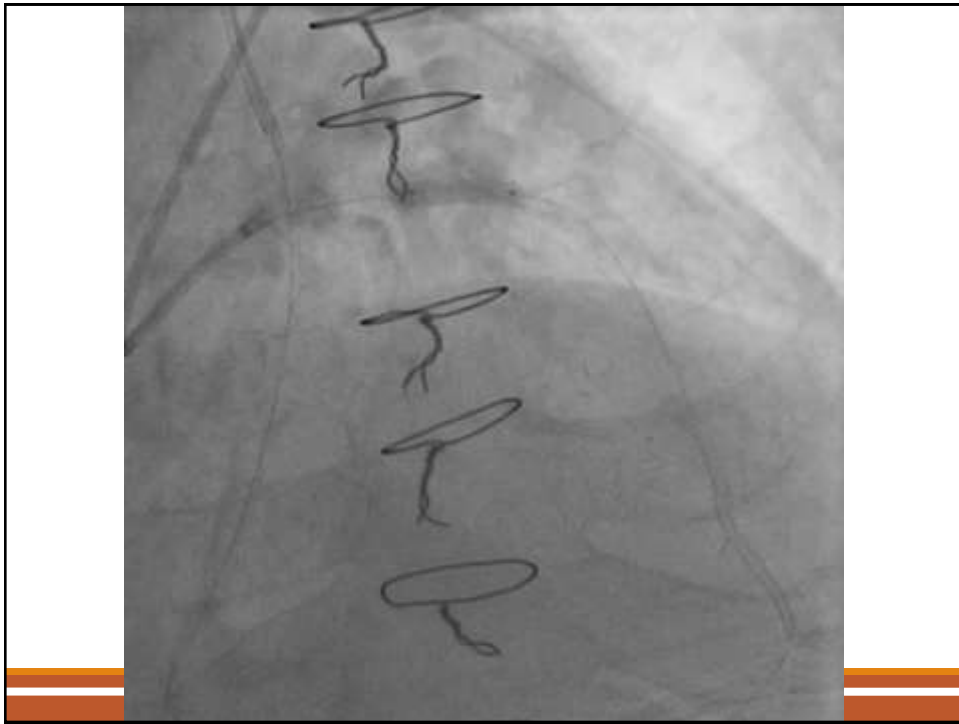


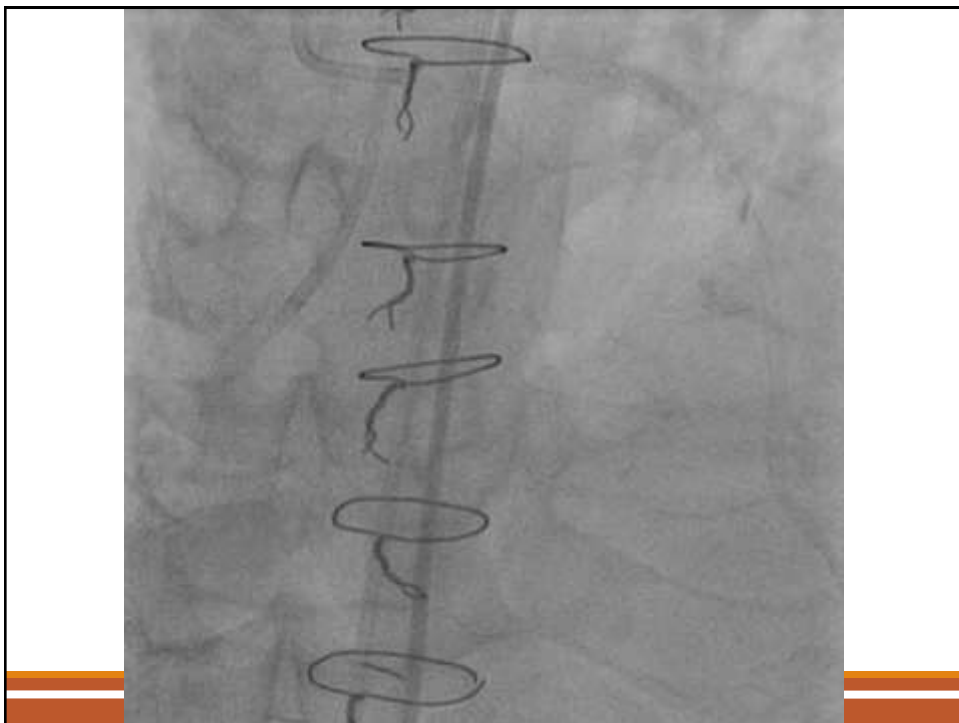


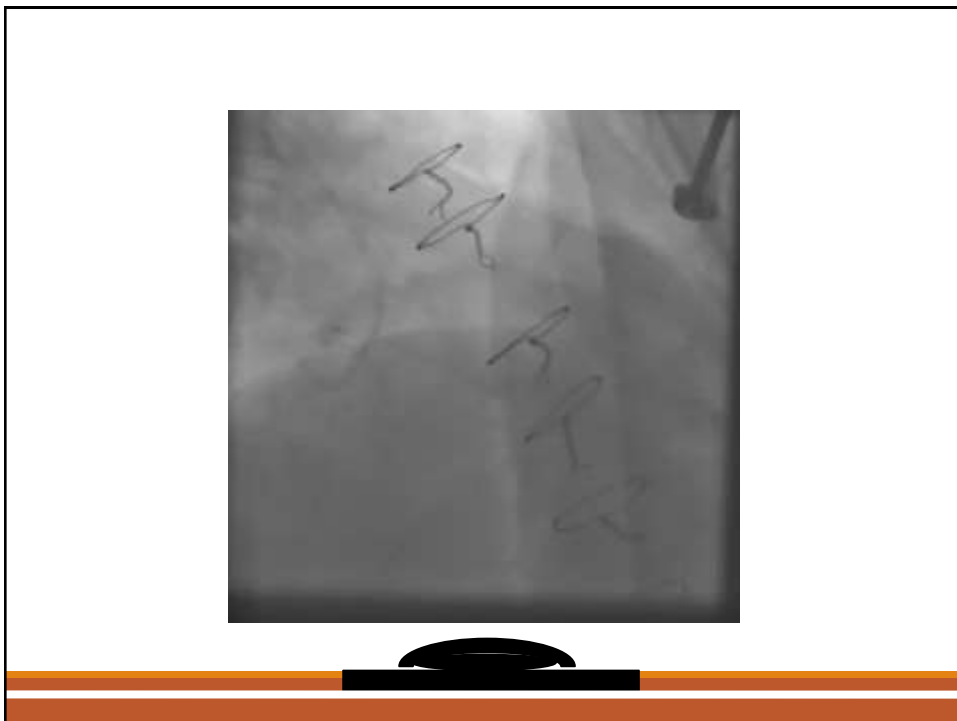
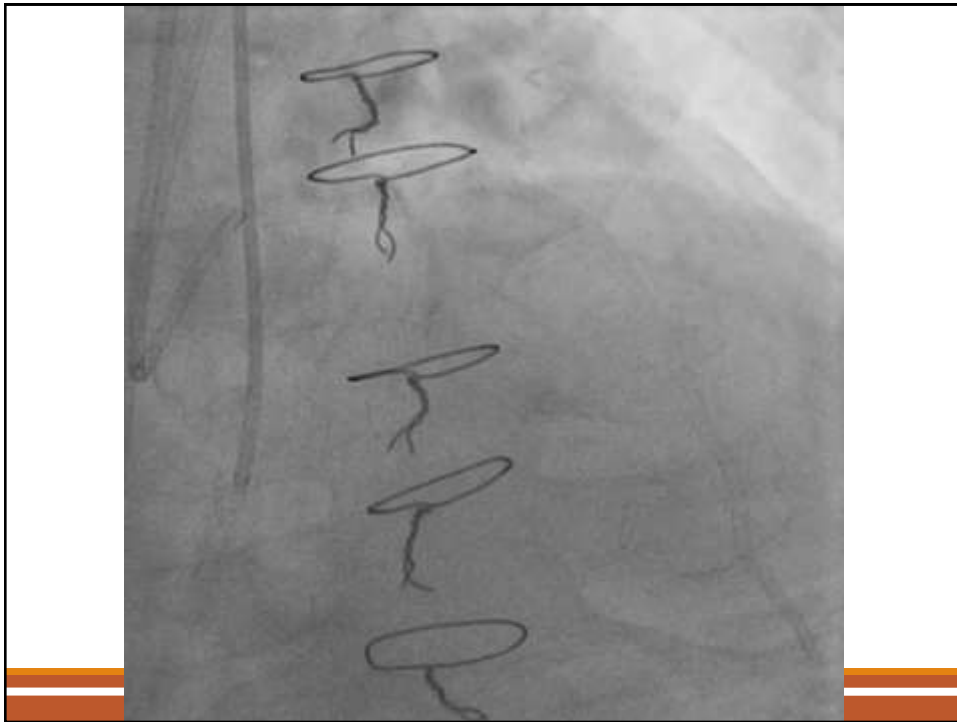














Take Home Message

- Complex PCI should be done after the decision of the Heart Team.
- Post CABG interventions especially CTO remain the most difficult procedures.
- Total graft failure is considered a very challenging situation taking into consideration the high risk mortality rate (16% for 2nd procedure, 27% for the 3rd one).
- Internal mammary graft failure is usually a technical problem, so the risk of acute complications is high, long term patency is usually unpredictable and risk of restenosis is higher than normal.
- Haemodynamic support should be considered specially for those with impaired LV systolic function.
- IVUS is a very useful tool in CTO and it will facilitate most of the steps of opening and optimizing the end result.

Thank You

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