

BRS in diffuse LAD disease

Tarek Rashid, MD
Ain Shams University

Background

61 year old male patient

Risk factors: DM on oral treatment, hypertensive on bisoprolol 5mg and ramipril 2.5 mg, smoker, dyslipidemic with family history of CAD and SCD

Clinical history:

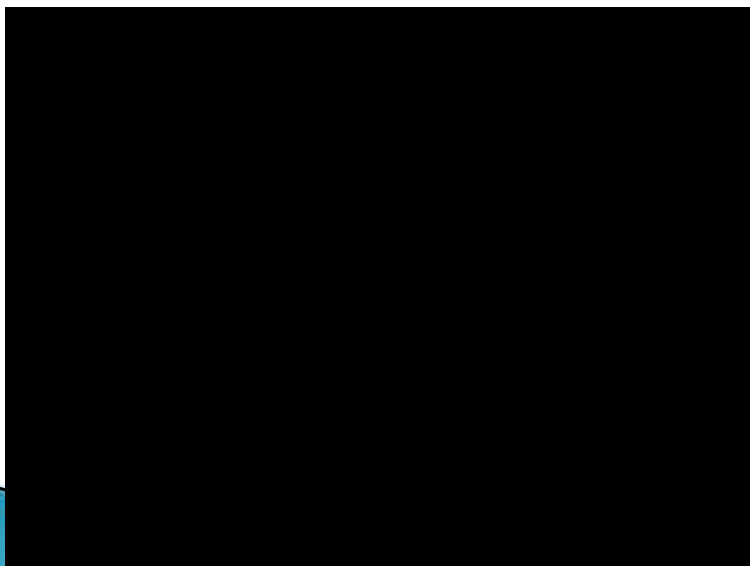
- ▶ Exertional angina CCS II (2012 - 2013)
- ▶ Stress Sestamibi revealed mild inferior wall ischemia
- ▶ Patient kept on medical treatment (ASA 100mg, atorvastatin 20 mg, nitroglycerine 2,5 mg x2)
- ▶ ECG:

Background

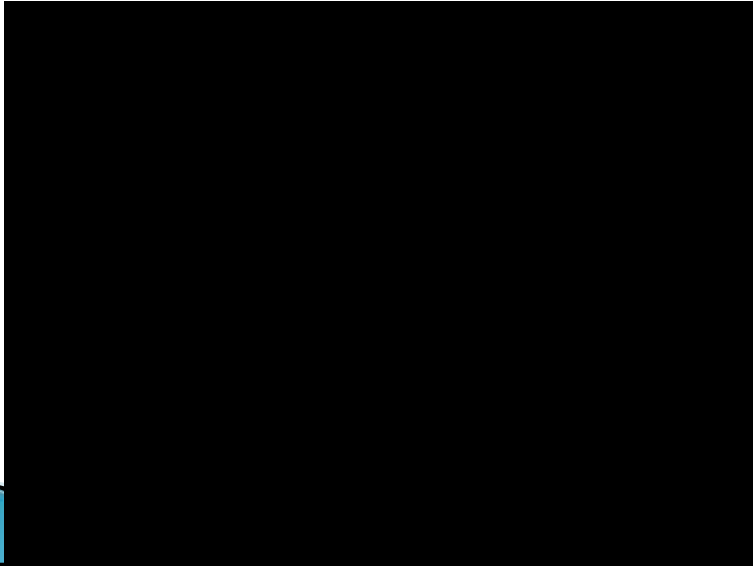
- ▶ Presented by ACS/NSTEMI (3 - 2014)
- ▶ ECG revealed 1 mm ST depression in leads V2 through V6
- ▶ Elevated serum Troponin I
- ▶ Patient was admitted to the CCU with medical stabilization
- ▶ Echocardiography: EF 58%, apical hypokinesia, sclerotic aortic valve
- ▶ Coronary angiography



Coronary angiography



Coronary angiography



CABG, is it a good option?

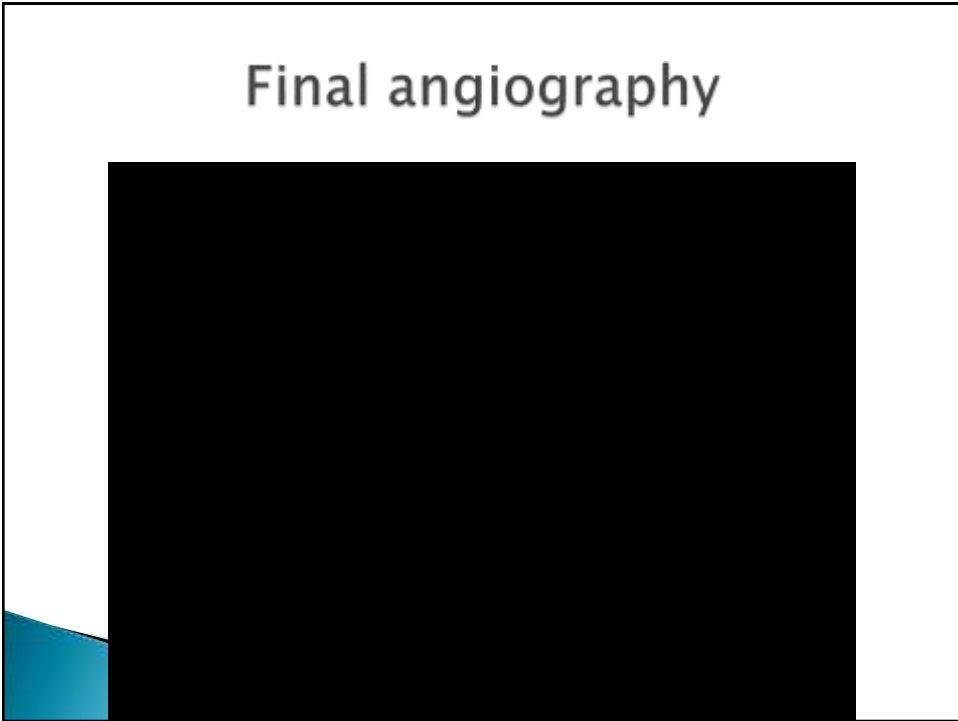


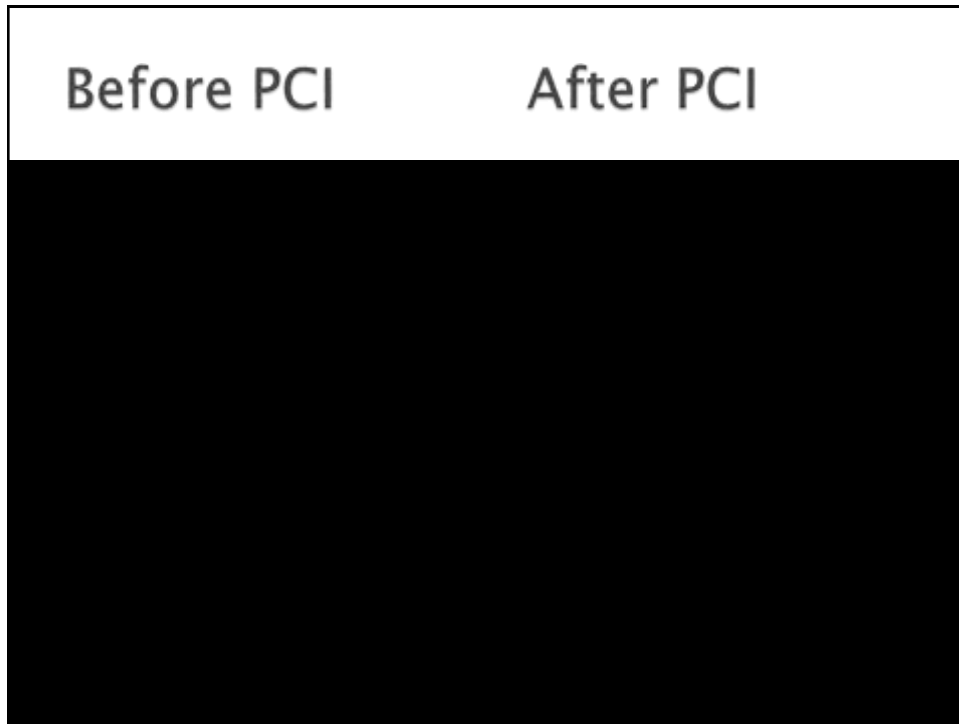
PCI to LAD (predilatation)



PCI to LAD (3 BRSs)



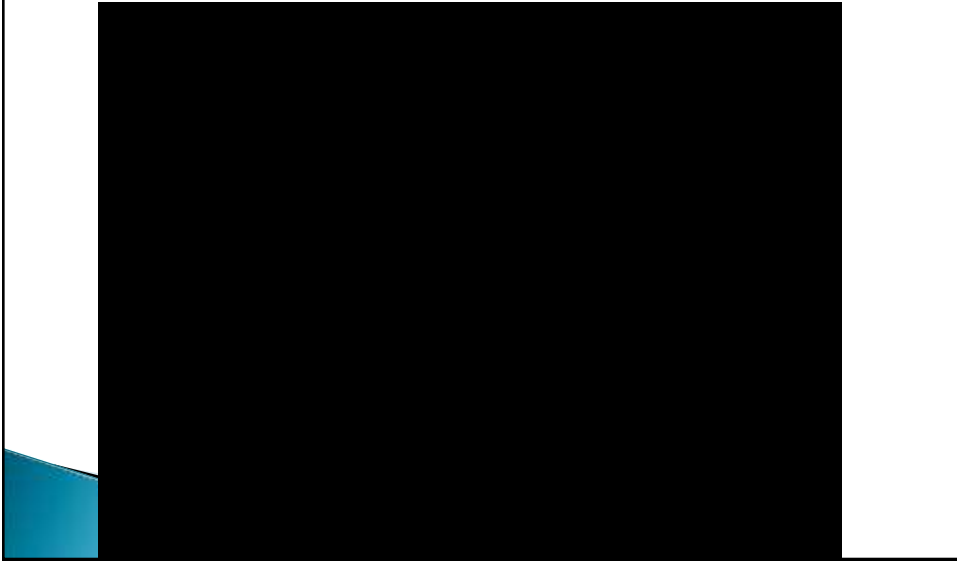




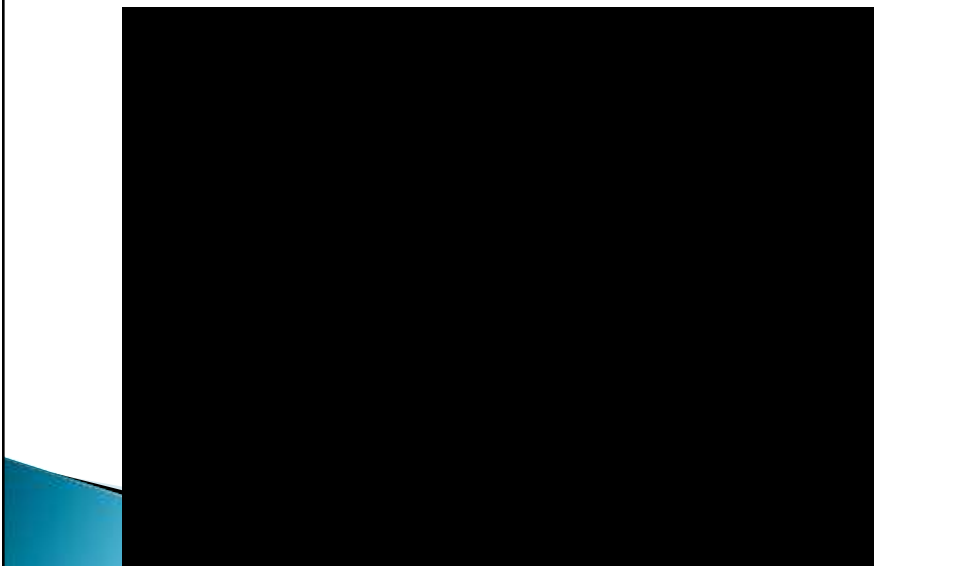
6 – 2015 (15 months after PCI)

- ▶ The patient experienced chest pain
- ▶ Admitted to the CCU by unstable angina
- ▶ No significant ECG changes
- ▶ Coronary angiography

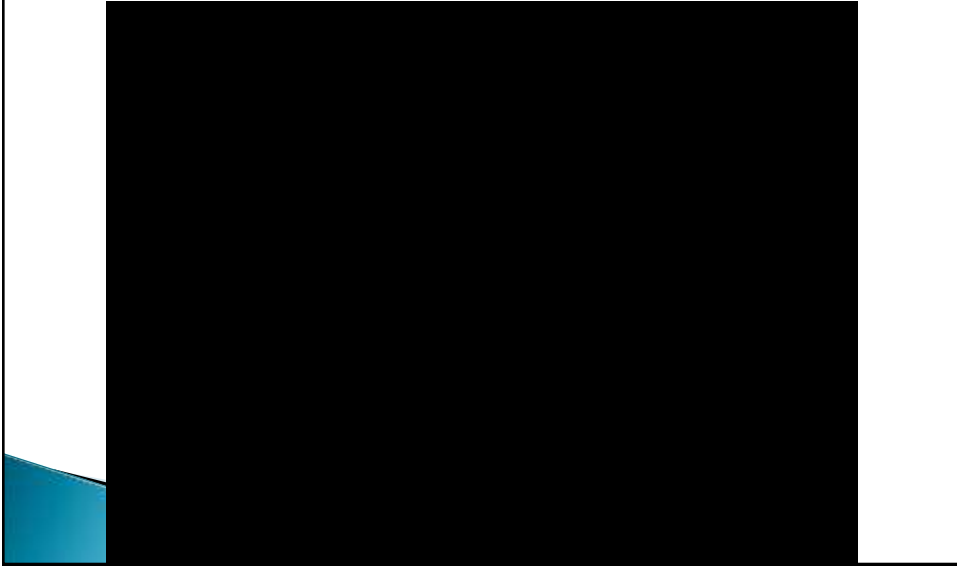
Follow up (15 months)



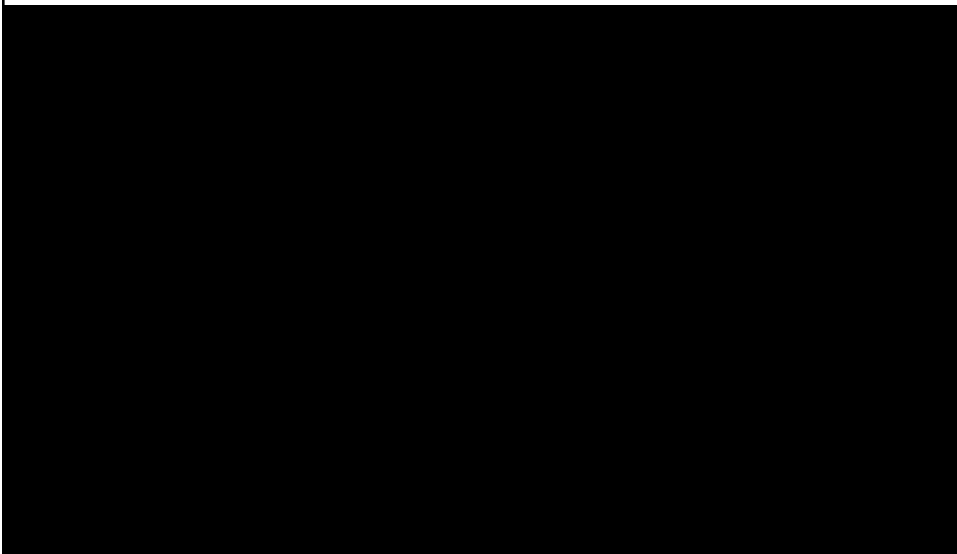
Follow up (15 months)



Follow up (15 months)



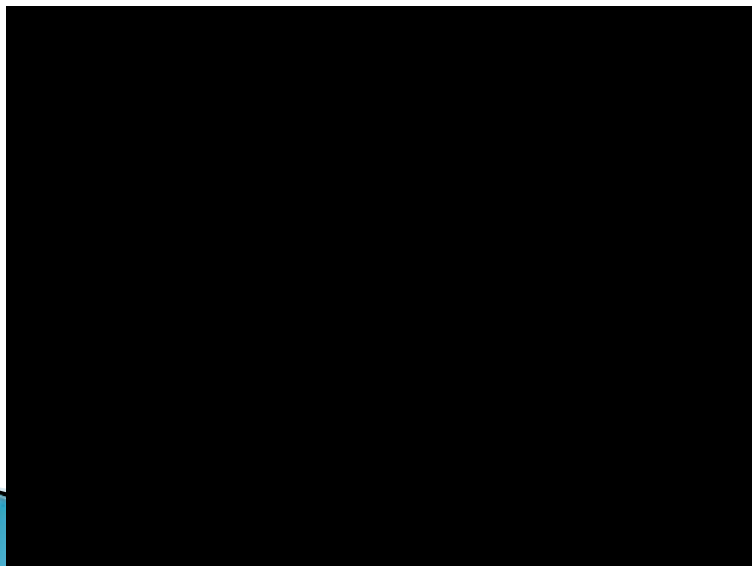
PCI to OM branch and osteal PDA

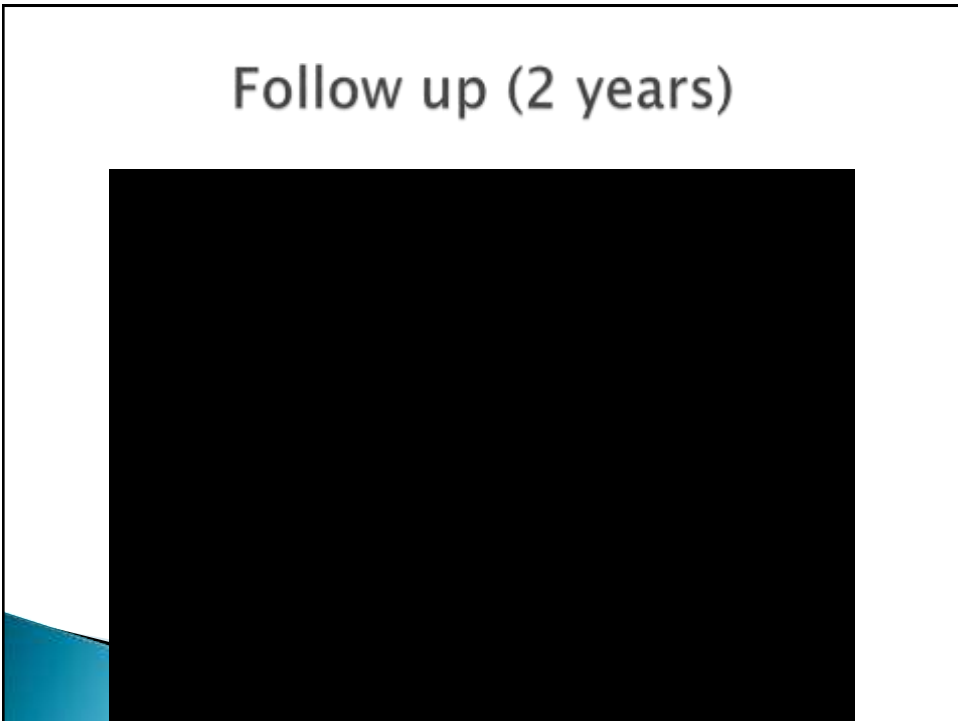
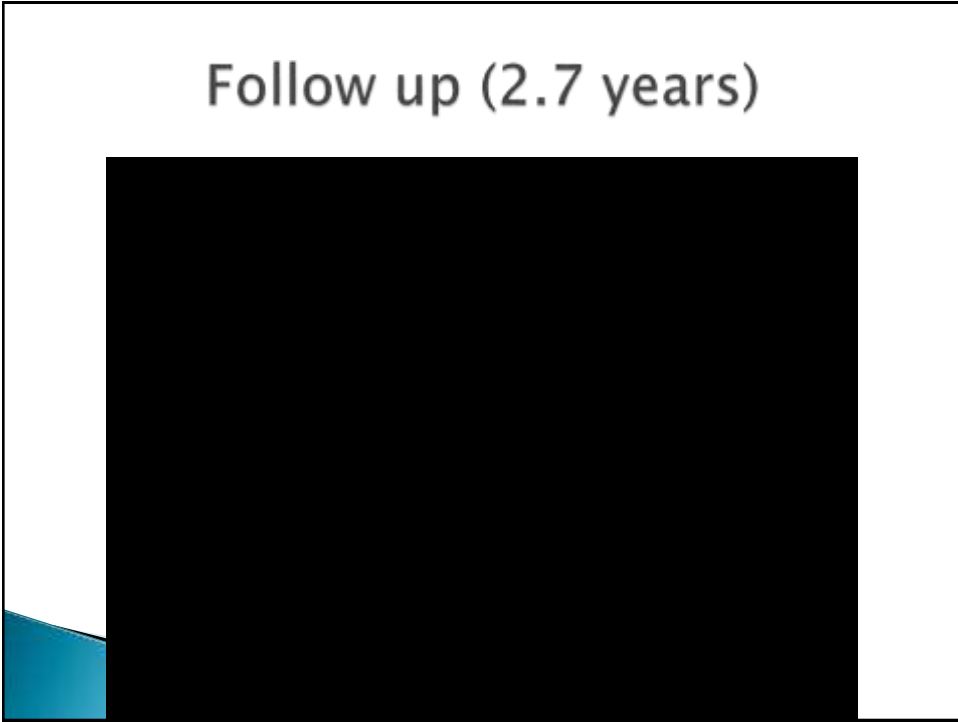


12 – 2016 (33 months follow up)

- ▶ Patient is stable.
- ▶ No current angina.
- ▶ BP: 130/80
- ▶ HR: 58 BPM
- ▶ Lab. : cholesterol 152 mg/dl, HDL 38 mg/dl, LDL 84 mg/dl, TG 148, creatinine 1.2 mg/dl, eGFR 105

Follow up (2.7 years)



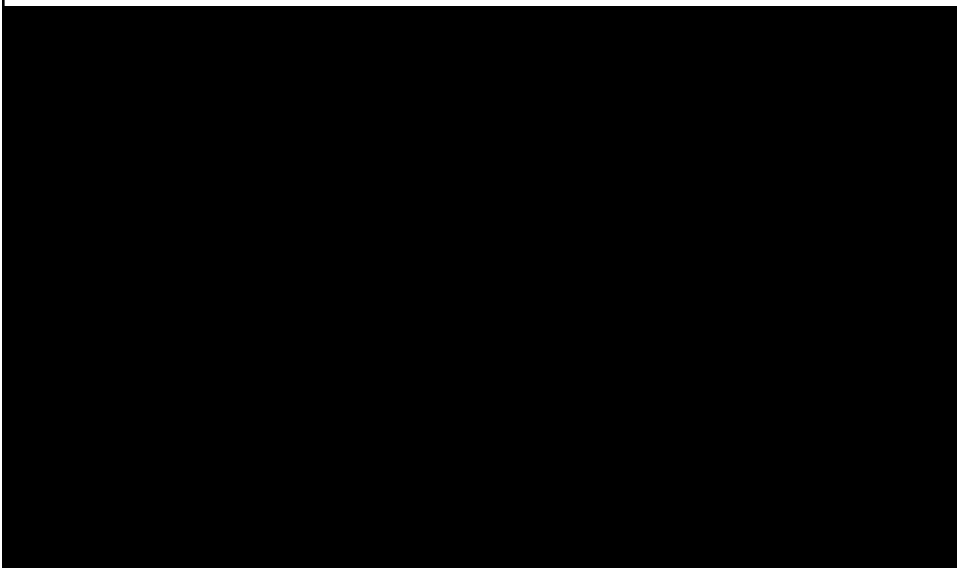


IVUS



LAD before intervention

LAD after 33 months



Take home message

- ▶ BRSs have good both short term and long term outcome in diffusely diseased vessels even in the presence of calcification.
- ▶ BRSs may be preferable over metallic DES in treatment of mid to distal LAD disease with encouraging follow up data.
- ▶ Proper preparation and adequate post – stent deployment inflation with high pressure balloons are the main factors affecting both short term and long term outcome.

Thank you