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OCT and angioscopic findings after repair of coronary artery aneurysm by stent implantation

Coronary artery aneurysm has some complications such as rupture and thrombosis, however treatment for aneurysm has not been still established. 71 years old male who was performed CABG (LITA-LAD, SVG-D2-OM, GEA to RCA) in 2002 was admitted due to chest pain. We performed CAG in 2012, CAG showed stenosis of D1. No coronary artery aneurysm was observed. Because area of ischemia was small, optimal medical therapy was selected. His chest pain was improved. In 2019, cardiac scintigram revealed progression of ischemia, so we performed CAG again. CAG showed new onset aneurysm at proximal LAD which size was more than two times as reference vessel. So we performed stent implantation (Resolute Onyx 4.0*18mm) for aneurysm. Just after PCI, angiographic findings was not changed. 9 months after PCI, CAG was performed. Coronary artery aneurysm was healed angiographically, OCT revealed thrombi behind stent. Organized thrombi were observed by non-obstructive coronary angioscopy. We continued dual antiplatelet therapy, and planned to observe by using various modality about 1 year later.