

Successful hybrid repair of a giant coronary artery aneurysm after previous coronary artery bypass grafting: a case report

Koichi Muramatsu¹, Hirokuni Naganuma¹, Noriyasu Kawada¹, and Hitomi Naruse¹

¹Tokyo Jikeikai Ika Daigaku Fuzoku Kashiwa Byoin

May 9, 2022

Abstract

A 64-year-old female had undergone CABG 10 years earlier. Follow-up CT gram showed the giant coronary artery aneurysm (CAA) located on the proximal left circumflex artery (CX). We performed hybrid repair with CABG (SVG-CX) via left thoracotomy and stent assisted coil embolization. A coronary angiogram revealed complete CAA exclusion.

Hosted file

Main_text2.docx available at <https://authorea.com/users/481316/articles/568418-successful-hybrid-repair-of-a-giant-coronary-artery-aneurysm-after-previous-coronary-artery-bypass-grafting-a-case-report>

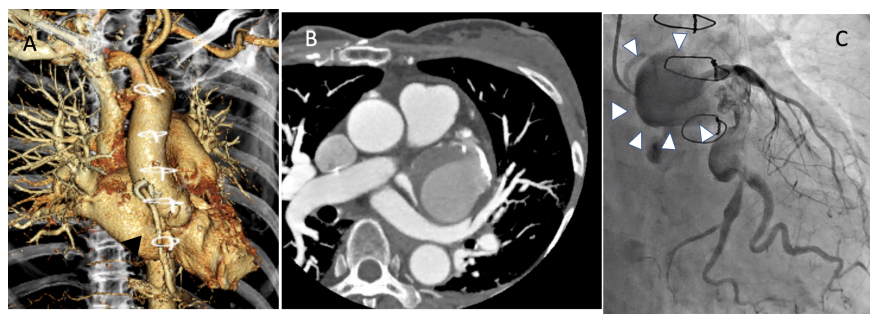


Figure 1

A preoperative computed tomography scan showing a previous SVG that was patent and located on the midline (arrowhead) (A). An axial scan showing the giant CAA located at the proximal left CX (B). Coronary angiography showing a wide necked aneurysm (arrow heads) (C).

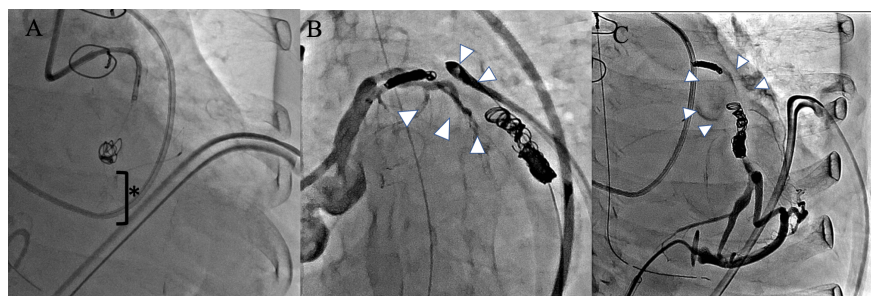


Figure 2

The day after surgery, stent-assisted coiling was performed. A drug-eluting stent (*) was deployed as a coil scaffold, and the coil was placed over the stent (A). Coronary angiogram of the left main trunk (B) and SVG (C) showing complete exclusion of the CAA. Coronary aneurysm is highlighted with arrow heads.



Figure 3

A 6-month postoperative CT scan revealing complete exclusion of the CAA and a considerable reduction in its size.