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Case Report

Successful treatment for a giant coronary saccular aneurysm complicated with myocardial infarction in a patient with Behcet's disease: Case report

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ABSTRACT

We report on a 35-year-old man, with known Behcet pease, who was admitted with the diagnosis of subacute anterior myocardial in Coronary and pepty revealed an isolated giant saccular aneurysm at the mid segment of a anterior descending oronary artery with a tight stenosis. The patient was successfully treated in covered stept on the first day of admission.

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Introduction

Behcet's disease (BD) is a multisystem dise recurrent oral aphthae and any of sever ons, including uveitis, skin lesions, neurological se, arthriti d vascular involvement [1-3]. Vascular lesio generally st both arteries and veins [3]. Coronary rement complicated with myocardial infarction (M is rare [4]. resent a case of a young BD patient with iso d giant saccular rysm and tight of left erior descending (LAD) artery stenosis at the mid segm complicated with MI.

Case report

A 35-ye old my suffering from BD (diagnosed 10 years earlier) was he stall to the consider care unit due to subacute anterior MI. It is a domajor risk factors for coronary artery disease (CAD). The people had been treated with warfarin due to deep venous thrombosis. Sical examination upon admission revealed pulse rate at 74 beats/min and blood pressure at 100/60 mmHg. Heart sounds and bilateral lung area were normal. The initial electrocardiogram showed sinus rhythm with 1–2 mm ST segment elevation and biphasic T waves in the anterior leads which was consistent with subacute anterior MI. Laboratory tests showed

elevated plasma creatine phosphokinase-MB (73 ng/mL) and troponin-T (0.94 ng/mL). International normalized ratio (INR) was measured as 2.76. The protein C, protein S, homocysteine, serum cholesterol, and triglyceride levels were all within the normal limits. Anticardiolipin antibodies and antinuclear factor were negative.

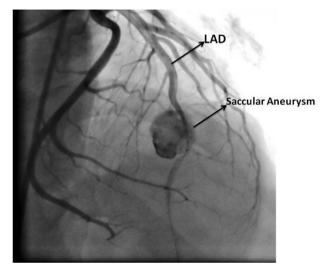


Fig. 1. Isolated giant saccular aneurysm with a tight stenosis at the mid segment of left anterior descending artery (LAD).

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Fig. 2. Isolated giant saccular aneurysm with a tight stenosis at the mid segment of left anterior descending artery in multiple compute mography.

Echocardiography revealed anterior hypokinesis and decreased left ventricular systolic function. Coronary angiography showed an isolated giant saccular aneurysm with a tight stenosis at the mid segment of LAD (Figs. 1 and 2). We decided to perform percutaneous coronary intervention (PCI) with a covered stent. After predilatation with 2.5 mm \times 15 mm balloon, a 3.0 mm \times 26 mm covered coronary stent was successfully deployed at the mid segment of LAD. Coronary aneurysm disappeared after the covered stent was implanted (Fig. 3). The patient was treated according to current guidelines and discharged from the hospital four days later without any complication.

Discussion

BD is an autoimmune, multisystem disease lving arteries and veins [1-3]. Arterial involvement freque presenting with peripheral arterial aneury aortiti or thron litis i bosis. Cardiovascular involvement due to rare, but serious, complication which di Due. coronary nosis. Aneurysmal degeneration of ries occurs in approximately 0.5% of cases [3] nary lesion be either

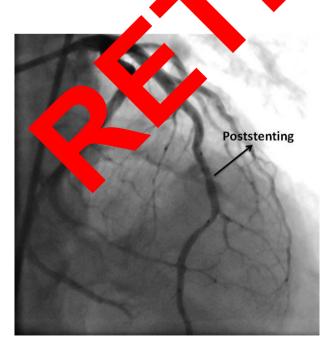


Fig. 3. Disappearance of aneurysm after implantation of the covered stent.

neratio ,3–5]. Previous studies occlusive or ang vsm ible cause of MI in patients suggest that ca ary vasc with BD [4 cently, Sey . [7] reported that increased ominent feature of BD and corocoronary ero osis is not a nary occlusion ma attributed to fibrous intimal thickening litis. The pathogenesis of the vasculitis t of local v ot well understood. The pathologic findings include vasculiand inflammatory obliterative endarteritis of the vasa vasorum h fibrotic erioration of the media, all of which predispose rterial to aneurysm formation [3,8]. Our patient had ablished risk factors for CAD and any coagulation no and fibruarytic system disorders and had been treated with wardue to deep venous thrombosis. Therefore, MI in our case ossibly be due to coronary vasculitis, rather than thrombotic occlusion.

Currently, there is no consensus on the treatment strategy for BD patients with coronary aneurysm and MI. Treatment of coronary aneurysm with both PCI and coronary artery bypass grafting is possible. However, current evidence does not favor surgery for those patients because of the technical difficulties and postoperative complications, which include false aneurysm, anastomotic dehiscence, and thrombotic occlusion [9]. Recently, Kasapis et al. [10] reported that covered stent is a good treatment option in a patient with BD and coronary aneurysm. We also successfully deployed covered stent at mid segment of LAD which included giant aneurysm and tight stenosis. The patient remained asymptomatic throughout 3 months of follow-up. Therefore, covered stents may be an alternative to other treatment options in such cases.

Conclusion

Isolated giant LAD aneurysm with tight stenosis complicated with MI in patients with BD is rare. Covered stents are a suitable treatment option for those patients.

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