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Cardiovascular Complications in Behçet Syndrome

A 40-year-old Hispanic man without conventional risk factors for coronary artery disease presented with an inferior ST-elevation myocardial infarction and underwent emergent intervention with a drug-eluting stent deployed to his occluded mid right coronary artery (RCA). Four months later, he returned with a large, painful, right femoral artery pseudoaneurysm (Fig. 1) at the site of the collagen-plug vascular closure device that had been used during this cardiac catheterization; the pseudoaneurysm required surgical intervention. During this hospitalization, the patient was noted to have low-grade fevers and oral ulcers, which he had also experienced intermittently in the past. An extensive infectious-disease and rheumatologic evaluation revealed only an elevated erythrocyte sedimentation rate and C-reactive protein level. The possibility of Behçet syndrome was considered but was deemed unlikely, due to the patient’s non-European descent and the lack of genital and ocular involvement. A presumptive diagnosis of atypical recurrent aphthous stomatitis was made based on the absence of lymphadenopathy.

One month later (5 months after his initial myocardial infarction), the patient presented again—this time with atypical chest pain. Echocardiography showed a large inferobasilar ventricular pseudoaneurysm (Fig. 2). Chest radiography showed nonspecific cardiomegaly. Cardiac magnetic resonance imaging, performed in preparation for surgical pseudoaneurysmectomy, further delineated the inferobasi-
lar ventricular pseudoaneurysm in the setting of prior inferior-wall myocardial infarction (Fig. 3). Coronary angiography revealed a large RCA pseudoaneurysm and thrombotic occlusion of the RCA stent (Fig. 4).

The patient underwent successful surgical repair of the ventricular pseudoaneurysm, with resection and ligation of the RCA pseudoaneurysm. Histopathologic analysis of the RCA pseudoaneurysm suggested Beh-
Behçet syndrome is a multisystem vasculitis that affects all sizes of arteries and veins. This systemic, inflammatory disorder is chronic and relapsing, and is characterized by aphthous stomatitis, genital ulcers, and ocular lesions. There are no laboratory results that are pathognomonic for Behçet syndrome; consequently, the diagnosis is made on the basis of the clinical findings. The prevalence of coronary involvement in Behçet syndrome is 0.5%.1,2 The pathologic findings include arteritis and inflammatory obliterative endarteritis of the vasa vasorum with fibrotic deterioration of the media, all of which predispose the arterial wall to aneurysm formation.3,4

Comment

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References


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