Left Main Coronary Dissection in Takayasu’s Arteritis: the Value of Transesophageal Echocardiography and Intravenous Ultrasonography

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We read with interest the article by Akpınar et al.¹ entitled “Left Main Coronary Dissection in a Patient with Takayasu’s Arteritis” that was published in the Turkish Journal of Rheumatology.

The authors¹ reported on a 48-year-old female patient who was diagnosed with Takayasu’s arteritis along with a spontaneous left main coronary artery dissection. After the dissection was identified by coronary angiography, the patient was referred for emergency coronary artery bypass surgery.

Takayasu’s arteritis is a chronic inflammatory process that primarily involves the aorta and its main branches. Because 10-30% of Takayasu’s arteritis patients have coronary artery lesions, this disease should be regarded as a risk factor for aortic dissection and aneurysm.²

In this case, the authors performed transthoracic echocardiography to rule out aortic dissection, involving the arch and coronary ostial narrowing before and during surgery. In previous studies, the sensitivity and specificity were 59.3% and 76.9%, respectively for transthoracic echocardiography and 98-100% and 95-98%, respectively for transesophageal echocardiography in the diagnosis of aortic dissection.³,⁴

We believe that transesophageal echocardiography is an extremely useful tool, and it is now used widely for the detection of aortic diseases⁵ because the entire thoracic aorta and left main coronary ostium can be viewed, and any aortic regurgitation can be easily seen.

Furthermore, the characteristics of coronary lesions can affect which particular treatment is selected. At the time of angiography, left main coronary artery patency can be evaluated via intravenous ultrasonography. In turn, this could aid in choosing the optimal treatment, thus saving patients from unnecessary angioplasty or surgery and assisting in the improvement of clinical outcomes after interventions.

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