

Figure 1. a) Postero-anterior chest radiography view, b) Computed tomographic angiography view, c) Foreign body on transverse crosssection view



Figure 2. a) Intraoperative view of wound after repair, b) Half of sewing needle in the chest wall, c) Sewing needle

needle was removed from the chest wall (Fig. 2b, c). Postoperative course was uneventful.

It was suggested that asymptomatic foreign bodies without associated risk may be treated conservatively but if there is an injury with associated risk of infection, embolization, or erosion foreign body should be removed.

Finally, we can suggest that if the injury was associated with risk of erosion of the myocardial wall, urgent surgical intervention must be performed, even if patient was asymptomatic and pericardial tamponade was not observed.

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Acute myocardial infarction caused by severe muscular bridges of the left anterior descending artery and diagonal branch: a very unusual cause of myocardial infarction

Sol ön inen arter ve diyagonal dalın ciddi müsküler köprülerinin neden olduğu akut miyokart enfarktüsü: Miyokart enfarktüsünün oldukça nadir görülen bir nedeni

A 50-year-old man with acute anterior myocardial infarction was referred to our hospital for primary percutaneous coronary angioplasty. He had had an aortic valve replacement operation 5 years ago. He had no coronary artery disease or myocardial infarction in his medical history. Electrocardiogram obtained in emergency department during the chest pain revealed ST segment elevations and inverted T waves in precordial leads. He was taking oral anticoagulation therapy and his INR was 2.8 at hospital admission. Coronary angiography showed non-atherosclerotic coronary arteries with almost completely systolic compression (Fig 1a. arrows) and diastolic normalization of the left anterior descending coronary artery (LAD) and first diagonal branch (Fig 1b.



Figure 1. Coronary angiography images: (a) systolic compression, (b) diastolic normalization of the LAD and first diagonal branch LAD - left anterior descending coronary artery

arrows). In addition, TIMI 2 flow with systolic compression has been shown in LAD (Video 1). Troponin I levels increased significantly and the transthoracic echocardiography showed wall motion abnormalities in anterior, apical and septal segments of left ventricle.

Myocardial bridges consist of muscle fiber bundles lining an epicardial coronary artery for a variable distance. They are found in 10% of all coronary angiography procedures. The vessel wall underneath the muscular bridge is usually thin and free from degenerative atherosclerotic changes. A coronary stenosis caused by a short muscular bridge is considered critical when greater than 75%. Bridging of the epicardial coronary arteries has been described only in association with the left ventricular myocardium and most commonly with the LAD. Especially myocardial bridges in both LAD and diagonal branches are very rare. In our case, the patient has myocardial bridges in both LAD and its diagonal branch. Although myocardial bridges are usually associated with a benign prognosis, being in many cases asymptomatic and only found by chance, their presence has also been considered a cause of angina, malignant arrhythmia, myocardial infarction and sudden death. Therefore when patients has not any atherosclerotic risk factors and applied with acute coronary syndromes, percutaneous intervention may be prefer as reperfusion strategy as we did. We evaluated that the reasons of the myocardial infarction were the insufficient blood flow through the bridging arteries and the micro-thromboembolism from narrowing vessel segments. Other mechanisms such as neurohumoral or metabolic, may be played role in this case. Further studies need in this subject.

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Video 1. Coronary angiography shows TIMI 2 flow in LAD coronary artery LAD - left anterior descending coronary artery

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Tako-tsubo-like cardiomyopathy induced by pheochromocytoma crisis

Feokromasitoma krizinin tetiklediği Tako-tsubo benzeri kardiyomiyopati

Pheochromocytomas are rare catecholamine producing neuroendocrine tumors typically located in the adrenal medulla or along the sympathetic ganglia. It can secrete excessive catecholamine and causes clinical problems. Takotsubo cardiomyopathy, also known as transient left ventricular (LV) apical ballooning syndrome, is an acute cardiac syndrome characterized by transient LV regional wall motion abnormalities, chest pain or dyspnea, ST-segment elevation at electrocardiography (ECG) and minor elevations of cardiac enzyme levels. A 64-year-old man was admitted to hospital because of severe non radiating central chest pain and palpitation. He had labile blood pressure for 6 months, 12 kg weight loss for one year. He was referred to endocrinology clinic with these complaints 1 month ago and pheochromocytoma was diagnosed. On presentation, the patient's high blood pressure values measured in the emergency department, laboratory, angiography, 210/130 mmHg, respectively. Dual heart sounds with no cardiac murmur, clear lung fields. ECG showed ST-segment elevation in leads II and aVF, V3-V6 (Fig. 1A, B). The patient underwent emergent cardiac catheterization for presumed acute myocardial infarction (MI).Coronary angiography showed patent epicardial coronary arteries with only minor atherosclerotic manifestations (Fig. 2A). LV angiography demonstrated the characteristic morphology of apical ballooning with hyperkinesis of the basal segments and hypokinesis of the mid-apical segments (Fig. 2B, 1C-F). Two week later, the patient underwent a laparoscopic surgery and excision of the right adrenal mass, with gross and microscopic pathology confirming pheochromocytoma (Fig. 2D-F).

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