Tako-tsubo Cardiomyopathy Triggered by Severe Achalasia

To the Editor,

Tako-tsubo cardiomyopathy is a condition mimicking ST segment elevation myocardial infarction without evidence of significant coronary artery stenosis or spasm. It is characterized by transient regional wall motion abnormalities involving the left ventricular mid and apical segments that extend beyond a single epicardial vascular distribution. It occurs mainly in post-menopausal women after exposure to a sudden emotional or physical stress. The pathophysiology is still debated and may involve catecholamine-induced myocardial stunning triggered by a stressful event. We report the first case of a 50-year-old female with Tako-tsubo cardiomyopathy triggered by severe achalasia.

A 50-year-old post-menopausal woman was admitted to the hospital because of vomiting and acutedyspnea. Her medical history included achalasia treated by pneumatic balloon dilatation, 10 years earlier. For about 6 months, she had complained of worsening dysphagia. She did not feel any chest pain. Systematic EKG recorded a transient ST segment elevation in the inferolateral leads (Figure, A), with troponin elevation (troponin I = 1.22 ng/mL; normal range <0.06 ng/mL). Transthoracic echocardiography (TTE) showed akinesis and ballooning of the left ventricular apex with reduced left ventricular ejection fraction (35%). Cardiac catheterization confirmed the diagnosis of Tako-tsubo cardiomyopathy: absence of coronary artery disease, no evidence of plaque rupture or epicardial coronary spasm and presence of a ballooning of the left ventricular apex (Figure, B).

The chest x-ray revealed a global mediastinum widening with two air-fluid levels (Figure, C) and chest CT showed a severe distension of the esophagus (maximal diameter, 74 mm), with air-fluid level and compression of the trachea (white arrow on Figure, D). The upper gastrointestinal endoscopy performed a few days later revealed distended esophagus with retained undigested food and lack of peristaltis and concluded to a recurrence of achalasia. Thirteen days after her arrival, our patient was treated with a successful pneumatic balloon dilatation; another was required 2 weeks later. Three months follow-up was uneventful, with
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can Takotsubo cardiomyopathy. That severe achalasia may be a precipitating event that may occur during the acute phase. Our case suggests threatening complications and sudden cardiac death of Tako-tsubo cardiomyopathy is usually good, life-threatening complications and sudden cardiac death may occur during the acute phase. Our case suggests that severe achalasia may be a precipitating event that can Takotsubo cardiomyopathy.

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Additional multimedia material (video) available at: www.revespcardiol.org

REFERENCES