



Stress Cardiomyopathy: Emerging concepts on diagnosis and management

Samer Ellahham

The Cleveland Clinic Foundation, UAE

Abstract

Stress cardiomyopathy, takotsubo cardiomyopathy, is a syndrome characterized by transient regional left ventricular dysfunction in the absence of significant coronary artery disease. Possible pathogenic mechanisms include catecholamine excess, microvascular dysfunction, and multivessel coronary artery spasm. The diagnosis should be suspected in adults who present with a suspected acute coronary syndrome when the clinical manifestations are out of proportion to the degree of elevation in cardiac biomarkers. A physical or emotional trigger is often but not always present. Wall motion abnormalities in patients with stress cardiomyopathy are typically the apical type, and atypical variants including mid-ventricular, basal, focal, and global types. The differential diagnosis of stress cardiomyopathy includes acute coronary syndromes, coronary artery spasm, myocarditis, and pheochromocytoma. A high index of suspicion is key in the diagnosis and management.

Biography

Samer Ellahham is a Senior Cardiovascular Consultant at The Cleveland Clinic Foundation, Abu Dhabi, UAE.

Publication

Dote K, Sato H, Tateishi H, et al. [Myocardial stunning due to simultaneous multivessel coronary spasms: a review of 5 cases]. *J Cardiol* 1991; 21:203.

Tsuchihashi K, Ueshima K, Uchida T, et al. Transient left ventricular apical ballooning without coronary artery stenosis: a novel heart syndrome mimicking acute myocardial infarction. *Angina Pectoris-Myocardial Infarction Investigations in Japan. J Am Coll Cardiol* 2001; 38:11.

Dec GW. Recognition of the apical ballooning syndrome in the United States. *Circulation* 2005; 111:388. Aurigemma GP, Tighe DA. Echocardiography and reversible left ventricular dysfunction. *Am J Med* 2006; 119:18.

Gianni M, Dentali F, Grandi AM, et al. Apical ballooning syndrome or takotsubo cardiomyopathy: a systematic review. *Eur Heart J* 2006; 27:1523.



11th World Heart Congress
Edinburgh, Scotland | June 15-16, 2020

Citation: Samer Ellahham, *Stress Cardiomyopathy: Emerging concepts on diagnosis and management*, Heart Congress 2020, 11th World Heart Congress, Edinburgh, Scotland | June 15-16, 2020, 04:04-07