


Author's Reply

To the Editor,

We all know that a unifying explanation about the mechanism of takotsubo cardiomyopathy (TTS) remains questionable, but the main explanation is the overstimulation of beta 1 receptors in the heart (no difference between myocardium and endocardium) due to catecholamine surge. This phenomenon leads to microcirculatory dysfunction and direct cardiotoxicity, which results in severe myocardial morphological alterations (1). The observed alterations occur as myocardial histological changes, including focal mononuclear inflammatory areas of fibrotic response and characteristic contraction bands.

Based on observations in our patient and the literature review, a phase of hypercontractility preceding the stage of regional wall motion abnormalities is noted in most patients.

Observations of reverse and mid-ventricular types of TTS in younger patients have raised questions about the underlying mechanisms for us too, but further studies and literature review are needed to clarify the exact explanation.

 Shokoufeh Hajsadeghi,  Mohammad Hossein Rahbar,
 Aida Iranpour,  Ali Salehi¹,  Omolbanin Asadi²,
 Scott R. Jafarian³

Research Center for Prevention of Cardiovascular Disease, Institute of Endocrinology and Metabolism, Iran University of Medical Sciences; Tehran-Iran

¹Departments of Internal Medicine, Hazrat-e Rasool General Hospital, Iran University of Medical Sciences; Tehran-Iran

²Endocrine Research Center, Institute of Endocrinology and Metabolism, Iran University of Medical Science; Tehran-Iran

³Departments of Medicine, Clinical Pharmacology, Vanderbilt University Medical Center; Nashville, TN-USA

Reference

1. Nef HM, Möllmann H, Kostin S, Troidl C, Voss S, Weber M, et al. Tako-Tsubo cardiomyopathy: intraindividual structural analysis in the acute phase and after functional recovery. *Eur Heart J* 2007; 28: 2456-64.

Address for Correspondence: Aida Iranpour, MD,
 Research Center for Prevention of Cardiovascular Disease,
 Institute of Endocrinology and Metabolism,
 Iran University of Medical Sciences;
 Tehran-Iran

Phone: +982188945246

Fax: +982188945173

E-mail: iranpouraida@gmail.com

©Copyright 2018 by Turkish Society of Cardiology - Available online at www.anatoljcardiol.com