
http://www.springer.com/journal/11845

http://www.springerlink.com/content/0021-1265

http://dx.doi.org/10.1007/s11845-010-0660-6

http://medlib.mef.hr/1640
Letter to the Editor

Title: Evaluation of carcinoid heart disease using delayed enhancement imaging

Authors: Maja Hrabak-Paar, Ranka Štern-Padovan

University of Zagreb School of Medicine, University Hospital Center Zagreb, Department of Diagnostic and Interventional Radiology

Corresponding author: Maja Hrabak Paar, Department of Diagnostic and Interventional Radiology, University Hospital Center Zagreb, University of Zagreb School of Medicine, Kispaticeva 12, 10000 Zagreb, Croatia, tel. +38512388455, fax +38512388250, e-mail: majahrabak@gmail.com
We read with interest the case report by Martos et al. [1] entitled “Cardiac carcinoid: tricuspid delayed hyperenhancement on cardiac 64-slice multidetector CT and magnetic resonance imaging”, published in the Irish Journal of Medical Science. Imaging characteristics of this rare disorder can be found in the literature; especially those features obtained using echocardiography and magnetic resonance imaging (MRI). The main morphological characteristics of the disease are thickening and restricted mobility of the tricuspid leaflets and subvalvular apparatus with consequent tricuspid stenosis and insufficiency. Although Martos et al. [2,3] cite papers where characteristics of tricuspid delayed enhancement were previously described, after careful reading we did not find any of them in the cited articles.

Delayed-MRI enhancement can delineate zones of fibrous tissue 10-30 minutes after intravenous administration of gadolinium chelate contrast agent [4]. Similar depiction of scar and fibrous tissue can be obtained using computed tomography by delayed scanning after intravenous administration of iodinated contrast material [5]. In the case report Martos et al. describe delayed enhancement of tricuspid annulus in a patient with carcinoid heart disease, but, unfortunately, they did not give their explanation why they observed late enhancement in this region. We believe that in patients with carcinoid heart disease delayed enhancement should be seen only in endocardial region of the right cardiac chambers including tricuspid leaflets. This type of late enhancement would represent distribution of endocardial fibrous deposits that can be seen on pathological specimens. Considering that tricuspid annulus consists mainly of fibrous tissue, we believe that its late enhancement could be physiological, rather than related to carcinoid heart disease.

For better understanding of the case report, we would like to add that figures 3B and 4A were mixed, so that figure 3B represents MDCT exam and figure 4A delayed enhancement on MRI
examination. Furthermore, references 5 and 6 are the same with incorrectly spelled last name of the first author in the reference 6.

References


