A rare unclassified cardiomyopathy: isolated right ventricle noncompaction

Sınıflandırılmamış nadir kardiyomiyopati: İzole sağ ventrikül süngerimsi miyokart

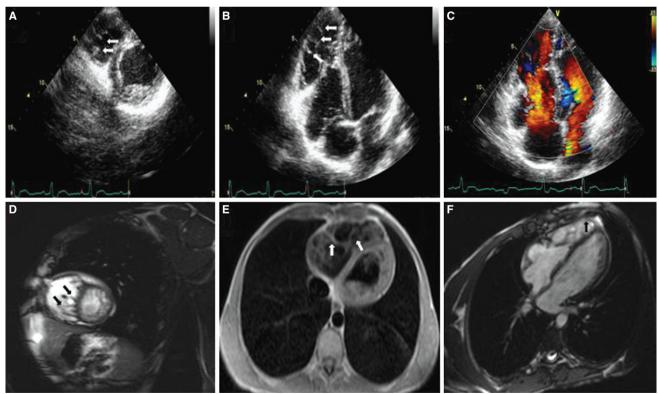
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Department of Cardiology, Kartal Kosuyolu Heart and Research Hospital, Istanbul A 23-year-old man was referred to our hospital with palpitation and increasing exertional dyspnea. Two-dimensional echocardiography and color Doppler demonstrated marked right ventricular (RV) trabeculation and intratrabecular recesses (Fig. A-C, Supplementary Video

1-3*). Cardiac magnetic resonance imaging (cMRI) confirmed RV dilatation and depressed RV function. There was dyskinetic movement in the right ventricle apex and lateral segments. cMRI also showed a

tion can be found in the online version of the journal.

double layered appearance with non-compacted and compacted endomyocardial segment in the mid ventricle, apex and lateral free wall. Ratio of the maximum thickness of the non-compacted to compacted layer at the end systole was >2 consistent with the diagnosis of RV non-compaction cardiomyopathy. In addition, marked trabeculation and deep intratrabecular recesses were noted mid ventricle, apex and lateral free wall (Fig. D-F). All segments of the left ventricle were compacted in both echocardiography and cMRI. Based on echocardiography and cMRI, left ventricle and biventricular non-compaction are more frequently seen than isolated RV non-compaction. In our case, we could show isolated RV non-compaction that is rarely seen disease by using transthoracic echocardiography and cMRI.



Figures— Transthoracic echocardiography from the short (A) and apical 4-chamber axis (B) views showing marked trabeculation and deep recesses in the right ventricular apex, mid and lateral free wall with compacted left ventricle (white arrows). (C) The same figure as Figure B showing, intertrabecular spaces are filled by direct blood flow from the right ventricular cavity. (D-F) ECG-gated, cardiac MRI showing a double-layered appearance on the short axis view (black arrows) and marked trabeculations and deep intratrabecular recesses in the mid ventricle, apex and lateral free wall of the right ventricle. (F) Dyskinetic movement is observed in the right ventricular apical and lateral segments. *Supplementary video files associated with this presenta-