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The right heart in heart failure with preserved ejection fraction

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Heart failure with preserved ejection fraction (HFpEF) affects nearly half of the patients with clinical signs of heart failure. HFpEF is considered to be a disease of the left ventricle (LV). It is characterized by impaired diastolic function due to abnormal relaxation and increased chamber stiffness. The role of right ventricle (RV) has not been well characterized in HFpEF. Recently several studies have described the role of RV in these patients by echocardiography, and few studies by CMR. In these studies, it has been found that addition of RV dysfunction is related with worse prognosis. The following explanation has been proposed: Impaired LV diastolic function causes passive rise in left atrial (LA) pressure and consecutively in PAWP and pulmonary artery (PA) pressure. Pulmonary artery compliance (PAC) decreases and adds to the increasing resistance against the right ventricle. RV fails to compensate pressure overload, dilates and finally RV failure occurs. Left atrial dilation is also present in these patients. Although HFpEF is considered as a disease of the left ventricle, RV dysfunction is also affected. Diabetes mellitus and hypertension present with HFpEF predominantly, however, RV dysfunction is also observed in these patients. Improvement of right heart imaging by echocardiography and CMR will be very helpful in the diagnosis and determining the prognosis.

Biography

Sibel Catirli Enar completed his Graduation from Istanbul University, Istanbul Medical School in 1981. He has completed his specialization in Anesthesiology and Critical Care at Istanbul Medical School in 1985 and in Cardiology at Istanbul University Institute of Cardiology in 1992. He became an Associate Professor of Cardiology in 2000, Fellow of European Society of Cardiology in 2010, Fellow of American Society of Echocardiography in 2012, Fellow of International Society of Cardiac Ultrasound in 2012 and Fellow of American College of Cardiology in 2016. He is working at Turkiye Hospital and Memorial Hospital in Istanbul/Turkey since 2000. He worked as a Research Fellow at Cleveland Clinic of Foundation, USA from 1996-1998 and at University of Alabama at Birmingham-USA from 2006-2008 as well. He has several publications in national and international journals. He served as speaker and moderator in national and international congresses. His area of interest is Echocardiography.

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