

COMPARISON OF E/E' , LEFT ATRIAL VOLUME INDEX AND PULMONARY ARTERY HYPERTENSION IN PATIENTS WITH HYPERTENSIVE INDUCED LEFT VENTRICULAR HYPERTROPHY

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ABSTRACT

AIM

We evaluated the prevalence of LA enlargement (LAE) and the relationship with left ventricular (LV) mass and diastolic function in subjects hypertensive induced left ventricular hypertrophy referred to an echocardiographic study for routine clinical indications.

METHOD

100 patients underwent a comprehensive echo-Doppler examination. LAE and LV hypertrophy (LVH) were defined as LA volume index (LAVI) >29 ml/m² and LV mass index (LVMI) >50 g/m² respectively. Abnormalities of LV relaxation and LV filling were diagnosed by age-related thresholds of early mitral flow velocity to E_i ratio (E/E_i) ≥ 16 , respectively.

RESULTS

According to our study, we found that the measurement of E/E_i derived from medial mitral annulus estimated better. It also supports that E/E_i is one of the best Doppler echocardiographic parameter to estimate diastolic function. E/E_i and LAVI were estimated for patients with Concentric Left ventricular hypertrophy as well as normal patients. In our study, LAVI correlates better with Grade of diastolic dysfunction. LAVI is greater in patients with high E/E_i ratio. Age, height, weight was found to be associated with high LAVI. Other studies have shown that the older age group patients are more prone to left atrial enlargement. Patient with Diabetes mellitus (DM), hypertension (HTN), Chronic Kidney Disease (CKD) are associated with diastolic dysfunction, that shows raised E/E_i Therefore non-invasive tissue Doppler measurement of E/E_i can be used to stratify the risk of the patients.

Biography

She is a student of Sri Ramachandra Institute of Education and Research, India

Publication of speakers:

1. Ponde, Chandrashekar & Suresh, Manjula & Gunasekaran, Sengottuvelu & Mishra, Sundeeep & Alexander, Thomas & Nair, Tiny. (2021). ACUTE ST ELEVATION MYOCARDIAL INFARCTION (STEMI) MANAGEMENT DURING COVID-19 ERA: AN INDIAN SURVEY REPORT BY 1083

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