EVALUATION OF LEFT VENTRICULAR SYSTOLIC AND DIASTOLIC PHASE INDEXES BY EQUILIBRIUM RADIONUCLIDE ANGIOCARDIOGRAPHY IN AMYLOID HEART DISEASE

Shinshu University, Matsumoto.

To evaluate left ventricular (LV) systolic and diastolic performances in amyloid heart disease (AH), we analyzed LV time-activity curves obtained from equilibrium radionuclide angiograms in a patient with primary amyloidosis and 4 with familial amyloid polyneuropathy. All of them were biopsy-proved AH and showed normal sinus rhythm in their electrocardiograms. There were no significant differences in systolic phase indexes including ejection fraction (EF), first third EF, peak ejection rate (PER) and time to PER between patients with AH and in normal subjects. On the other hand, first third filling fraction, first third mean filling rate and first third peak filling rate (PFR) were significantly lower in patients with AH when compared with those in normal subjects, but PFR was not significantly different between them.

We conclude that 1) LV systolic performance is preserved, 2) diastolic abnormalities are characterized by decrease in filling rate and prolongation of filling time at the early phase, in patients with AH with sinus rhythm.

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