

## Diastolic dysfunction in type 2 diabetes mellitus without cardiovascular abnormality

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### Abstrak

**Aim:** The purpose of the study was to investigate the prevalence of diastolic dysfunction in patients with type II diabetes mellitus without overt cardiovascular disease, and to investigate whether its presence is associated with age, sex, onset of diabetes, glycemic control and obesity.

**Patient and methods:** We studied 30 patients with type 2 diabetes; 11 were men and 19 were women; their ages ranged from 40 - 65 years; all patients had no evidence of hypertension, coronary artery disease, congestive heart failure, anatomical disease of heart, arrhythmia; and myocardial ischemia at maximal treadmill exercise test. Diastolic dysfunction was evaluated using Doppler echocardiography.

**Results:** Diastolic dysfunction was found in 22 subjects (73.3%) of whom 21 (70%) had abnormal relaxation and one (3.3%) had a pseudonormal pattern of ventricular filling. Systolic function was normal in all subjects, and there was no correlation between diastolic dysfunction and age, sex, onset of diabetes, glycemic control and obesity.

**Conclusion:** Diastolic dysfunction is much more common than previously reported. The high prevalence of this phenomenon population suggests the importance of screening for diastolic dysfunction among such high-risk patients.