

## **Summery**

**To evaluate the LV wall motion by tissue Doppler imaging we studied 50 patients there age ranged from 35 to 65 years. Each patient was subjected to:**

- **Careful history analysis and clinical examination.**
- **12 leads surface ECG.**
- **2D echo and tissue Doppler imaging study.**
- **Cardiac catheterization.**

**The patients were divided into three groups:-**

- 1. Group 1: 20 patients with old anterior myocardial infarction.**
- 2. Group 2: 20 patients with old inferior myocardial infarction.**
- 3. Group 3: 10 normal subjects (as control group).**

**Patients with dilated cardiomyopathy, arrhythmias, rheumatic heart disease and left bundle branch block were excluded from the study.**

**Our results showed that tissue Doppler imaging was more powerful, more specific and more sensitive than 2D-Echocardiography in detection<sup>ing</sup> the left ventricular wall motion abnormality where myocardial velocity and myocardial velocity gradient was reduced in the infarcted region up to (MV 1 cm/sec. And MVG from 0.3 to 0.5 s<sup>-1</sup>).**

**Our results showed that tissue Doppler parameters (MV & MVG) was reduced in the region which supplied by the stenotic artery and this also found by cardiac catheterization (coronary angiography and left ventriculogram).**

**In conclusion this results showed that tissue Doppler imaging was permitted in detection<sup>ing</sup> left ventricular wall motion abnormality<sup>es</sup> than 2D-Echo as it ~~was~~ not depend on the eyeball variation of subjects.** <sup>is</sup>