Inducible ischaemia in the LAD by vasodilator MCE

Clinical Case Portal

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Abstract

Case from the Contrast Echo Box  
Detection of Ischaemia

Introduction

- 80yr old patient with effort dyspnea, no chest pain  
- Hypertensive, type II diabetes  
- Normal resting ECG  
- Normal resting echocardiogram

Referred for stress echocardiography

Case Report

MCE - REST images

Flash imaging at rest, normal replenishment within 5 cardiac cycles (fig 1). See fig 2-5 for still images of this movie.
MCE - STRESS images

Flash imaging after dipyridamole stress (fig 6). Note the clear subendocardial perfusion defect - see fig 7-10 for the still images from this movie.

Video 1:
Normal Rest MCE

Fig. 1:
A: Pre-flash Normal perfusion in all walls

Fig. 2:
B: Flash impulses to destroy contrast in myocardium

Fig. 3:
C: Post flash myocardium is black due to bubble destruction

Fig. 4:
D: Normal replenishment within 5 beats

Video 2:
Abnormal Stress MCE

Fig. 5:
A: Pre-flash normal perfusion in all walls

Fig. 6:
B: High MI flash frames

Fig. 7:
C: Post-flash frame confirming good bubble destruction

Fig. 8:
D: Extensive perfusion defect (delayed refilling) extending from mid-apical septum through entire lateral wall