Contrast for endocardial border visualisation

Clinical Case Portal

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Abstract

Case from the Contrast Echo Box
Contrast Echocardiography for assessment of LV structure and function

Introduction

An everyday patient in the echo lab...!

- 60 year old male.
- Hypertensive, diabetic, overweight.
- Referred for echocardiography to investigate breathlessness.
- Sub-optimal apical image quality, then was contrast used for image optimisation.

Without contrast (Fig. 1):

- Difficult to measure EF
- Visually assessed EF judged to be slightly decreased
Contrast echo (Fig 2):

- Using 1 ml SonoVue bolus iv
- EF could be measured

Case Report

Measuring EF using Contrast (Fig 3, 4 and 5)

In this case, CE changed the assessment of LV function! (Fig 6)

Video 1:
Without contrast

Video 2:
Contrast echo

Fig. 1:
Measuring EF using Contrast (part 1)

Fig. 2:
Measuring EF using Contrast (part 2)

Fig. 3:
Measuring EF using Contrast (part 3)

Fig. 4:
In this case, CE changed the assessment of LV function!