

Contrast for endocardial border visualisation

Clinical Case Portal

Date of publication:

01 Dec 2011

Topics: Echocardiography (Non-invasive imaging)
Non-invasive imaging: Echocardiography, MR/CT, Nuclear

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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...!

- 60year 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):

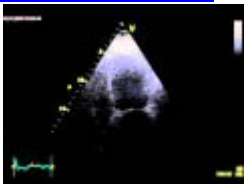
- Using 1 ml SonoVue bolus iv
- EF could be measured

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](#)

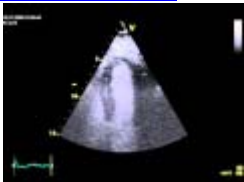


Fig. 1 :
[Measuring EF using Contrast \(part 1\)](#)

LVEF MOD A4C, Baseline	62 %
SV MOD A4C, Baseline	44 ml
2 LVLd A4C, Baseline	8.2 cm
LVEDV MOD A4C, Baseline	71 ml
1 LVLs A4C, Baseline	6.8 cm
LVESV MOD A4C, Baseline	27 ml

Fig. 2 :

Measuring EF using Contrast (part 2)



Fig. 3 :

Measuring EF using Contrast (part 3)

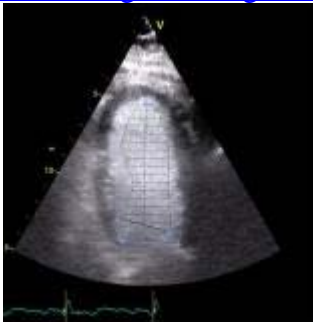


Fig. 4 :

In this case, CE changed the assessment of LV function!

