



Caso clínico

Terapêutica "Eléctrica" da Insuficiência Cardíaca



Milan Satendra

Identificação

- ▶ LFFT, sexo masculino
- ▶ Referenciado ao HD-IC em 2010 (61 anos)
- ▶ Miocardiopatia dilatada não isquêmica

NYHA classe II

ECG em RS com BCRE (QRS 160ms)

EcoTT com VE 85/57 mm e FEj=24%

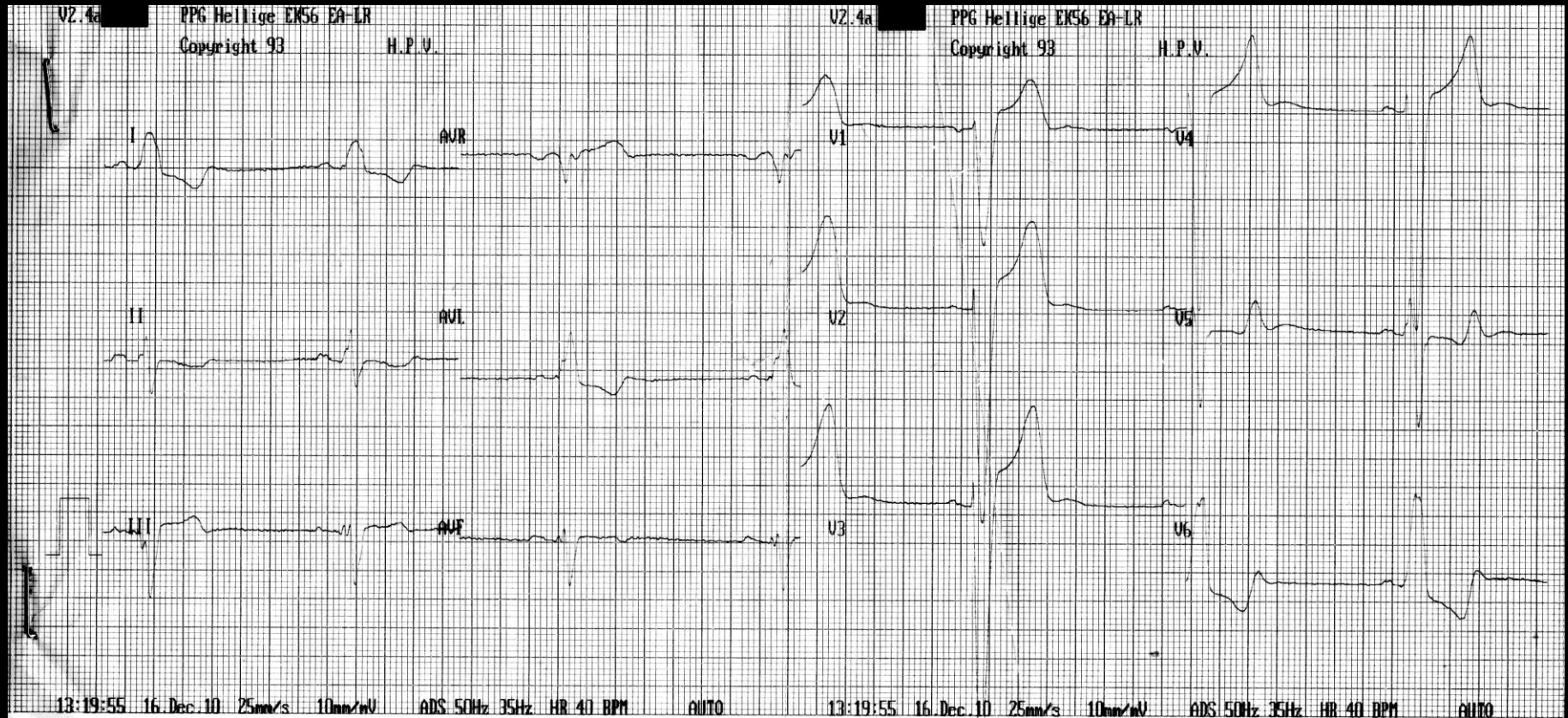
Insuficiência mitral moderada e insuficiência tricúspide ligeira

Coronariografia sem alterações



Electrocardiograma

BCRE (QRS 160ms)



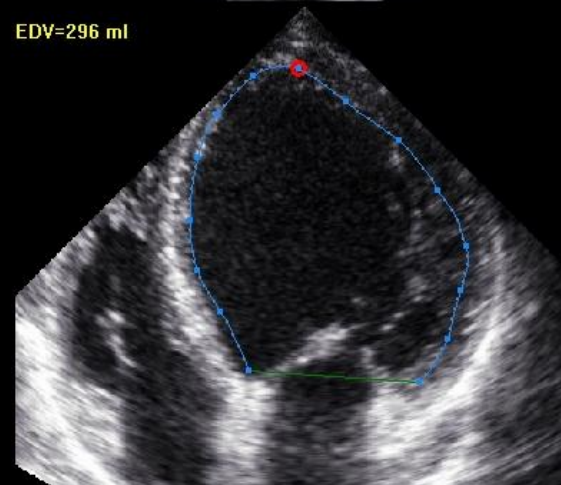
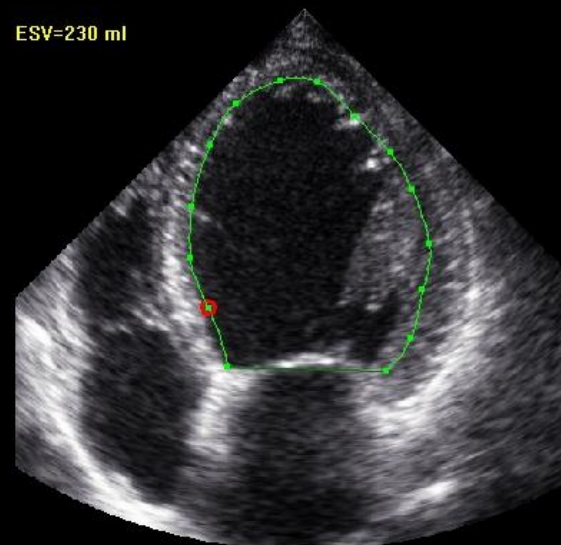
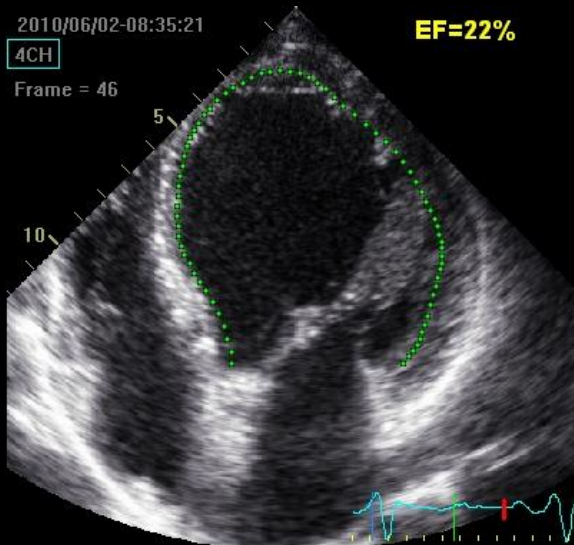
Ecocardiograma transtorácico



Ecocardiograma transtorácico

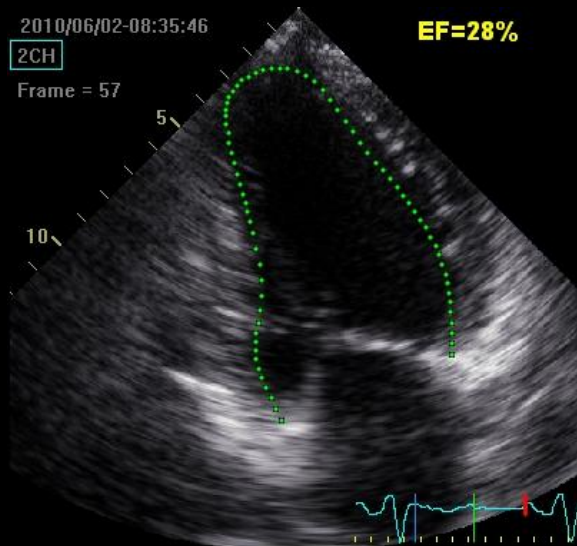


Ecocardiograma transtorácico



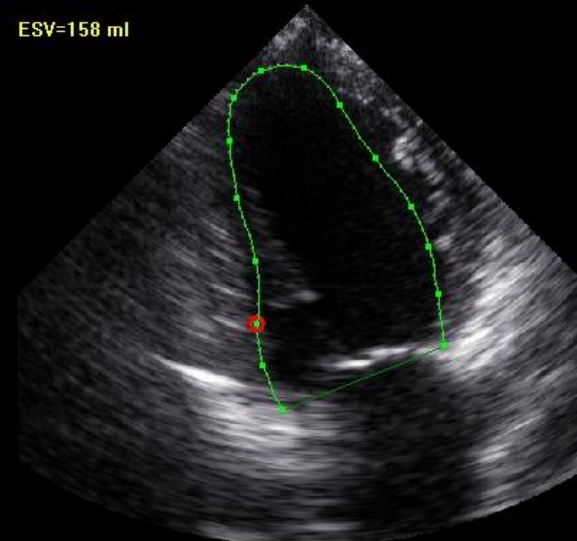
FEj=24%
VTD=243mL
VTs=156mL

Ecocardiograma transtorácico

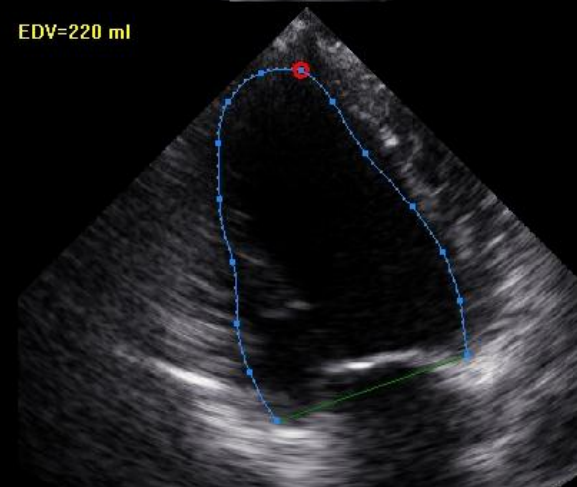


EF=28%

ESV=158 ml



EDV=220 ml

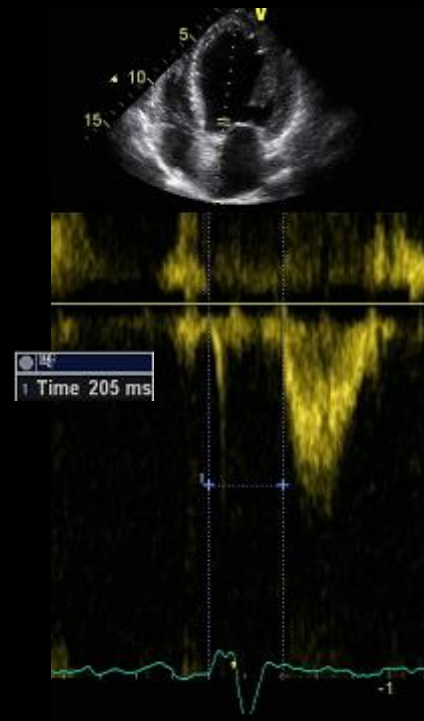
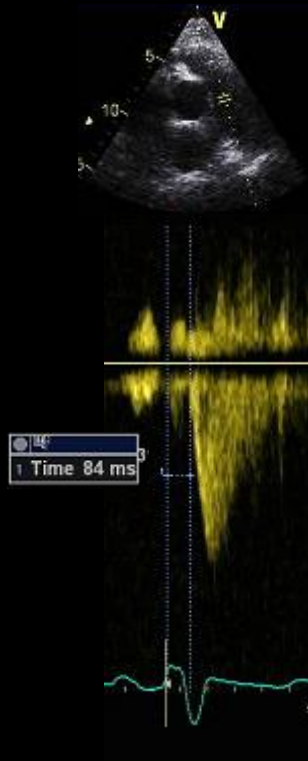


FEj=24%
VTD=243mL
VTs=156mL

Ecocardiograma transtorácico

Dessincronia interventricular:

- 121 ms $\neq$ t pré-ejecção fluxos pulmonar (84 ms) e aórtico (205 ms)

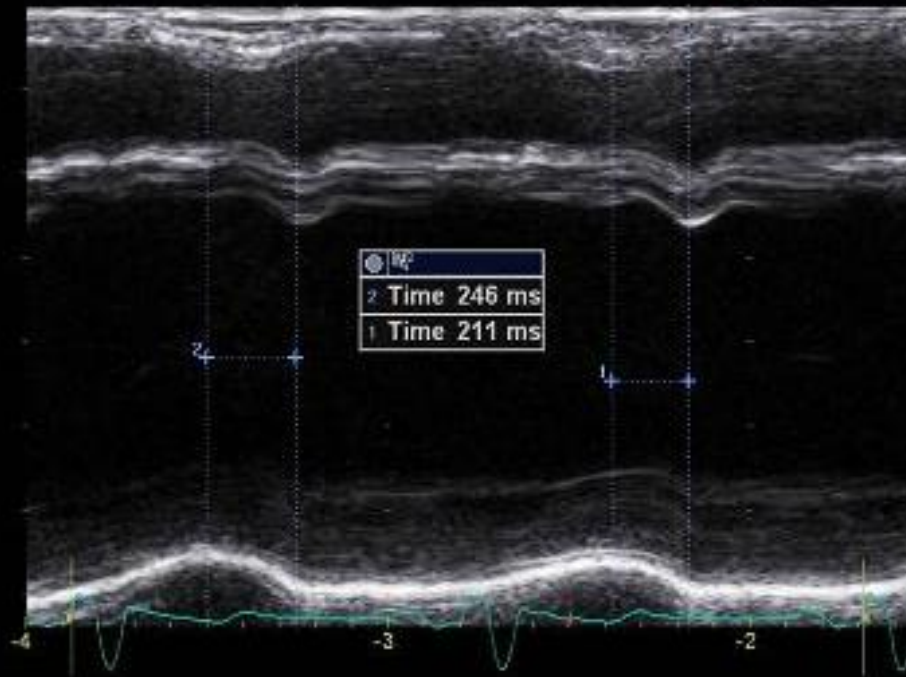


Ecocardiograma transtorácico

02/06/2010 08:30:31
Octave
FPS: 74.6

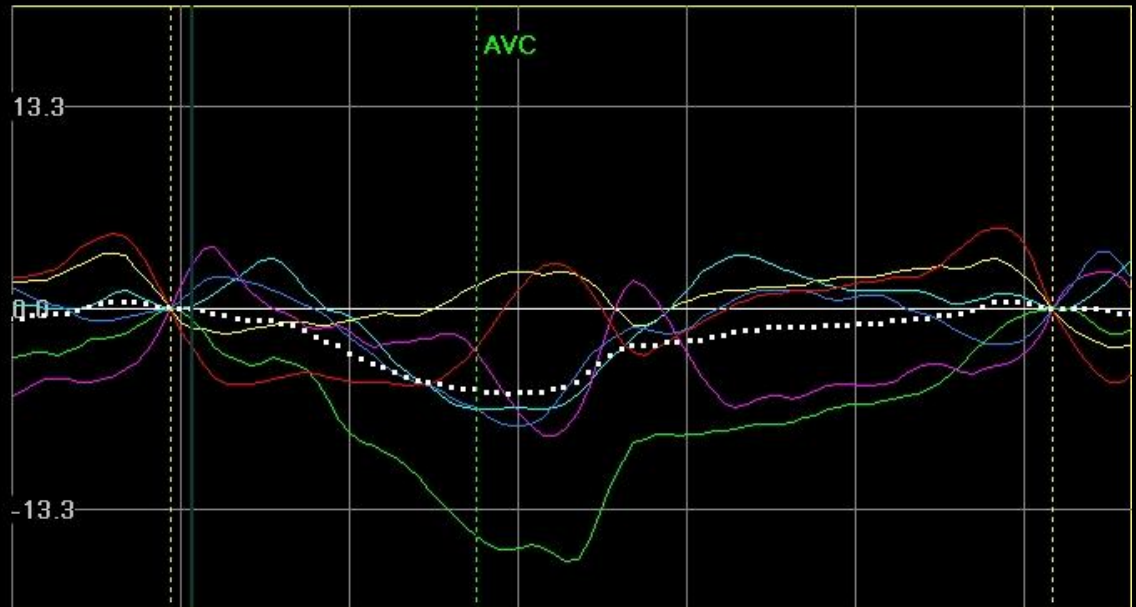
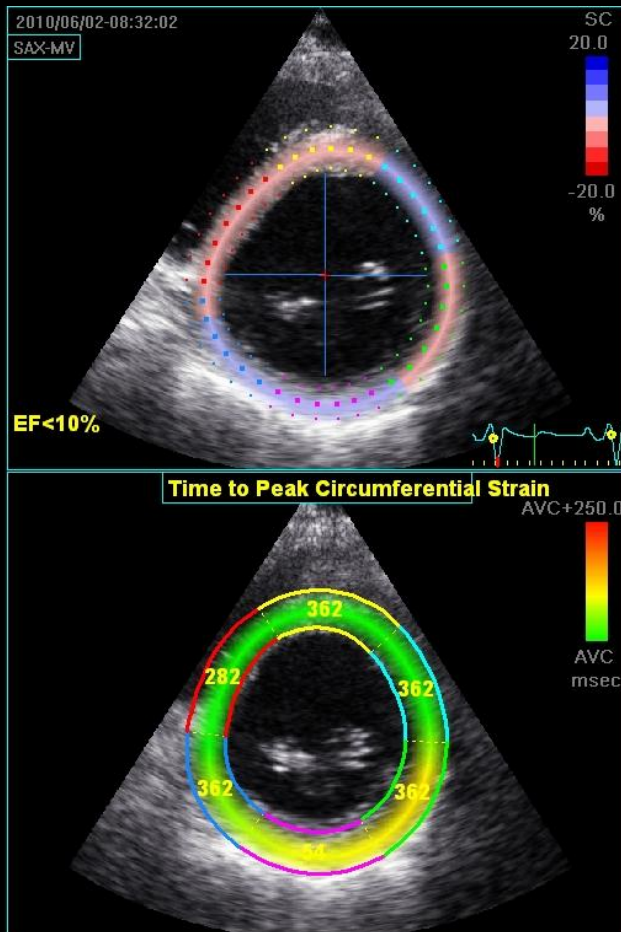


SPWMD = 228ms



Ecocardiograma transtorácico

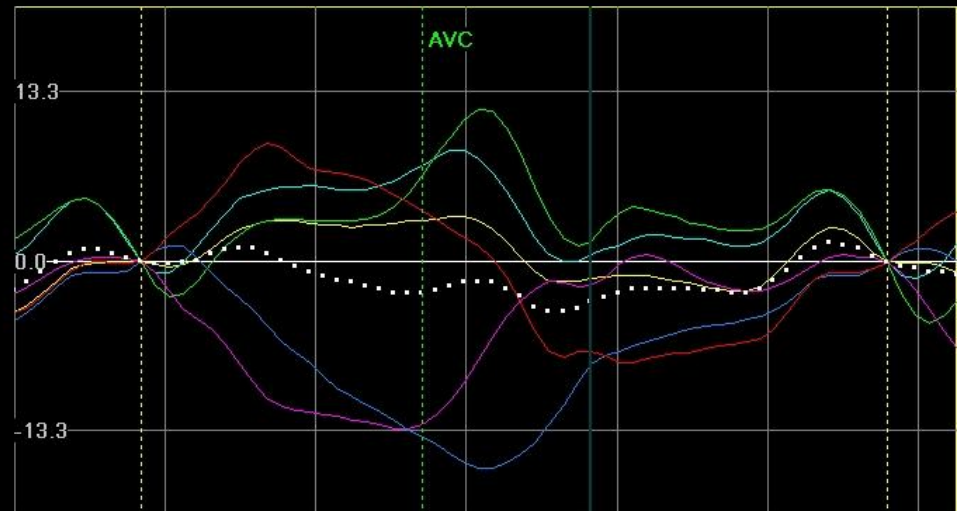
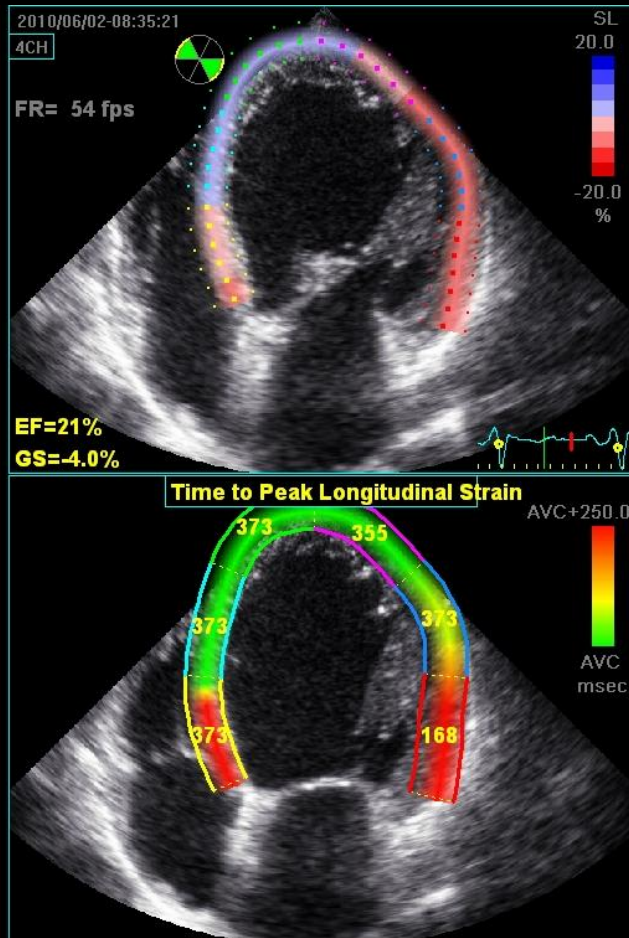
Dessincronia intraventricular: speckle tracking com dessincronia de predomínio radial



298ms $\neq$ t entre septo e parede posterior

Ecocardiograma transtorácico

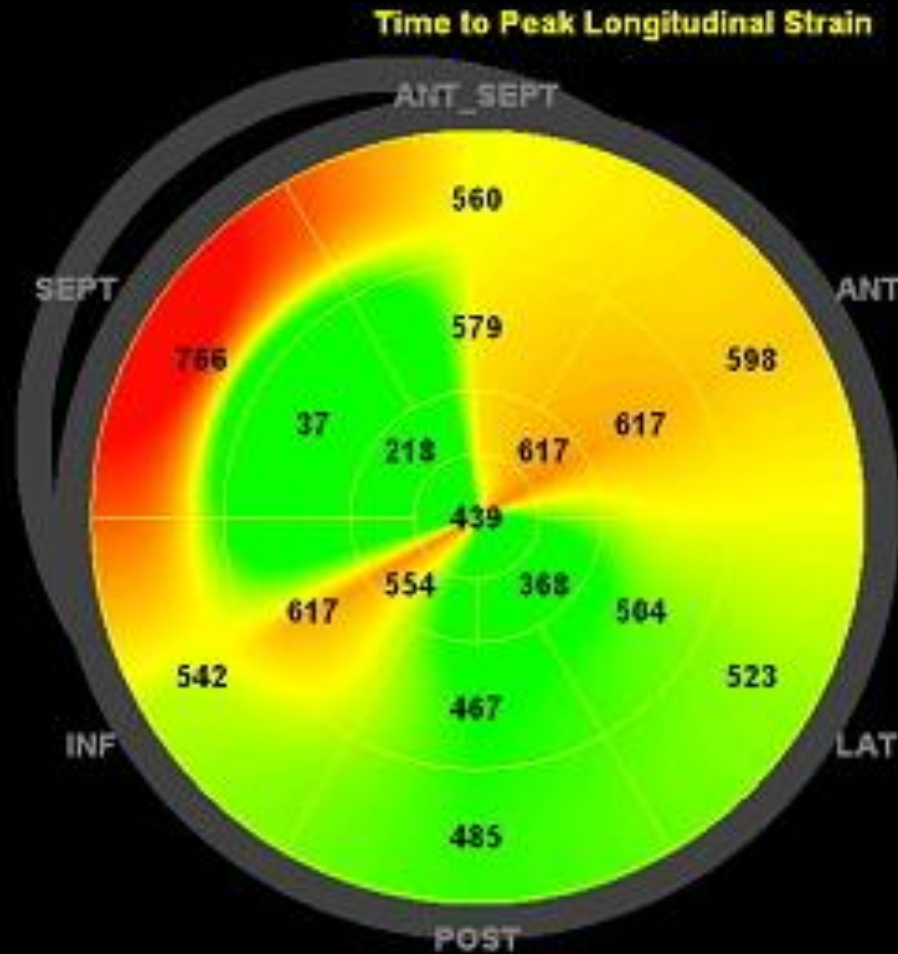
Dessincronia intraventricular: speckle tracking com dessincronia de predomínio radial também identificada por análise de strain longitudinal



205ms $\neq$ t entre septo e parede lateral

Ecocardiograma transtorácico

Dessincronia intraventricular: índice de Yu (SD 12) = 195ms



Clinicamente

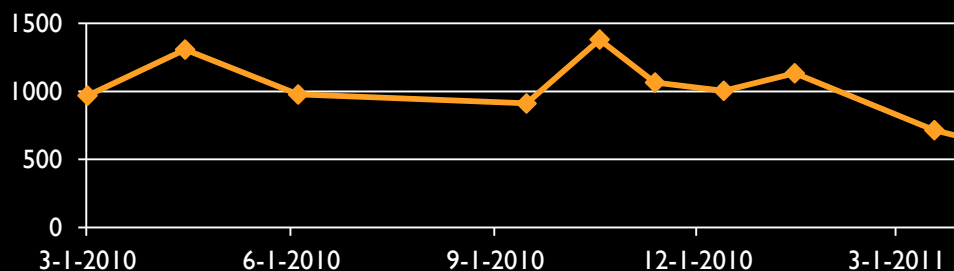
- ▶ NYHA II
- ▶ PA=96/64mmHg, FC=76bpm
- ▶ AC: SS II/VI no 5ºEIC LMC
- ▶ AP: Fervores crepitantes bibasais
- ▶ Sem outras alterações exame objectivo

- ▶ Medicação inicial
 - ▶ Ramipril 2,5mg/dia
 - ▶ Carvedilol 12,5mg/dia
 - ▶ Furosemida 40mg/dia
 - ▶ Espironolactona 25mg/dia

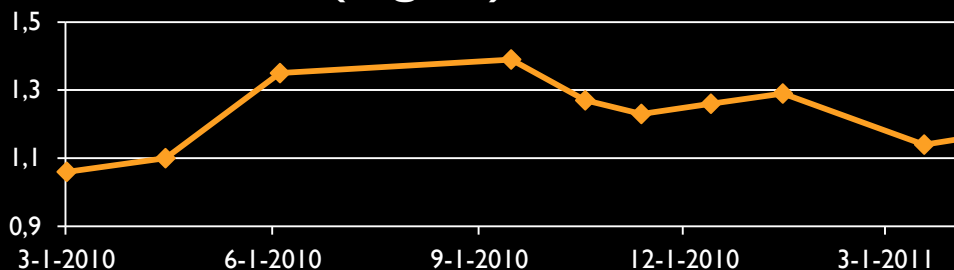


Seguimento

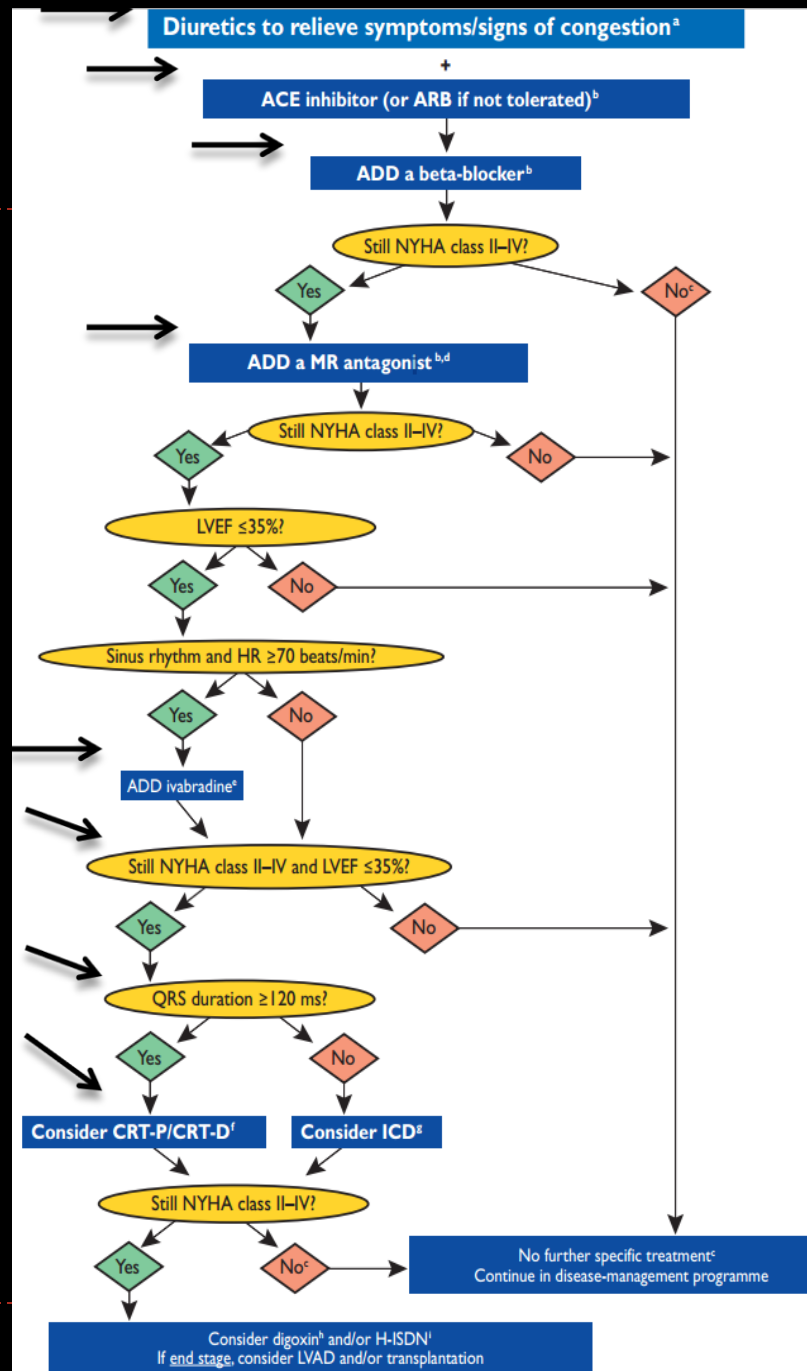
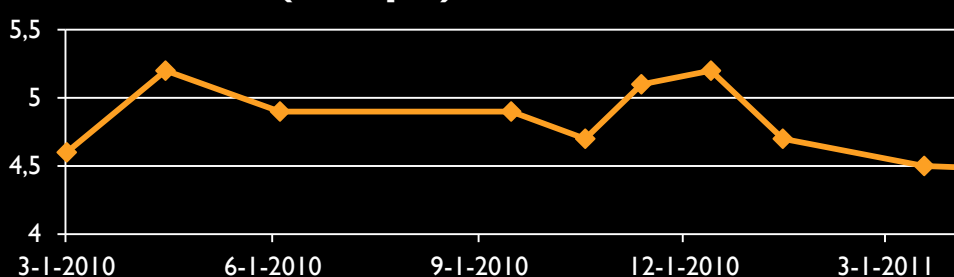
NTproBNP (pg/mL)



Creatinina (mg/dL)

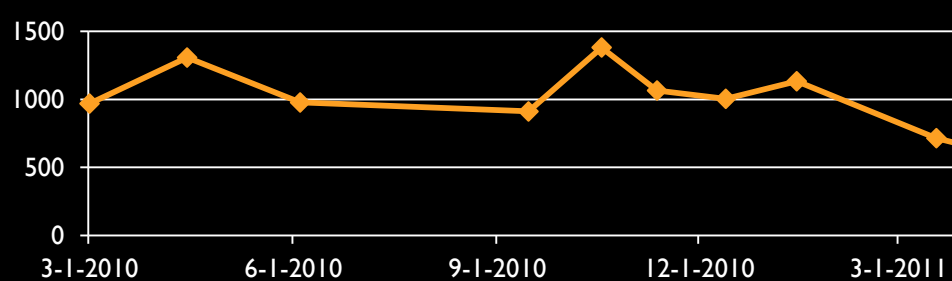


Potássio (mEq/L)

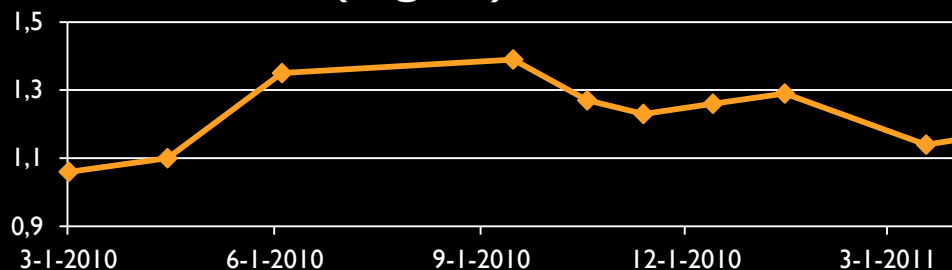


Seguimento

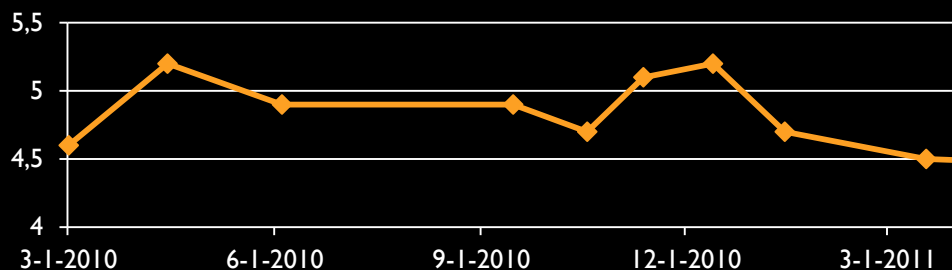
NTproBNP (pg/mL)



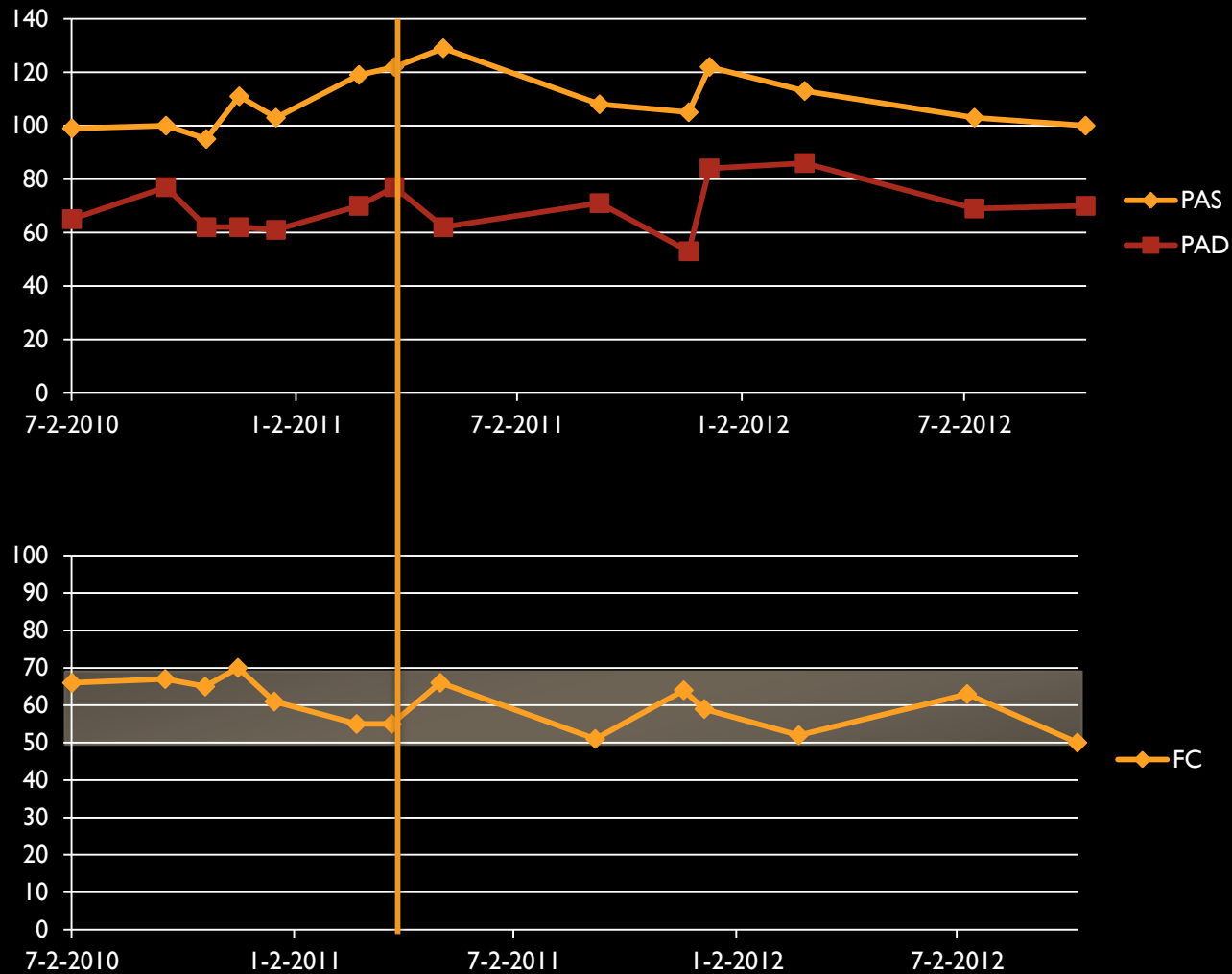
Creatinina (mg/dL)



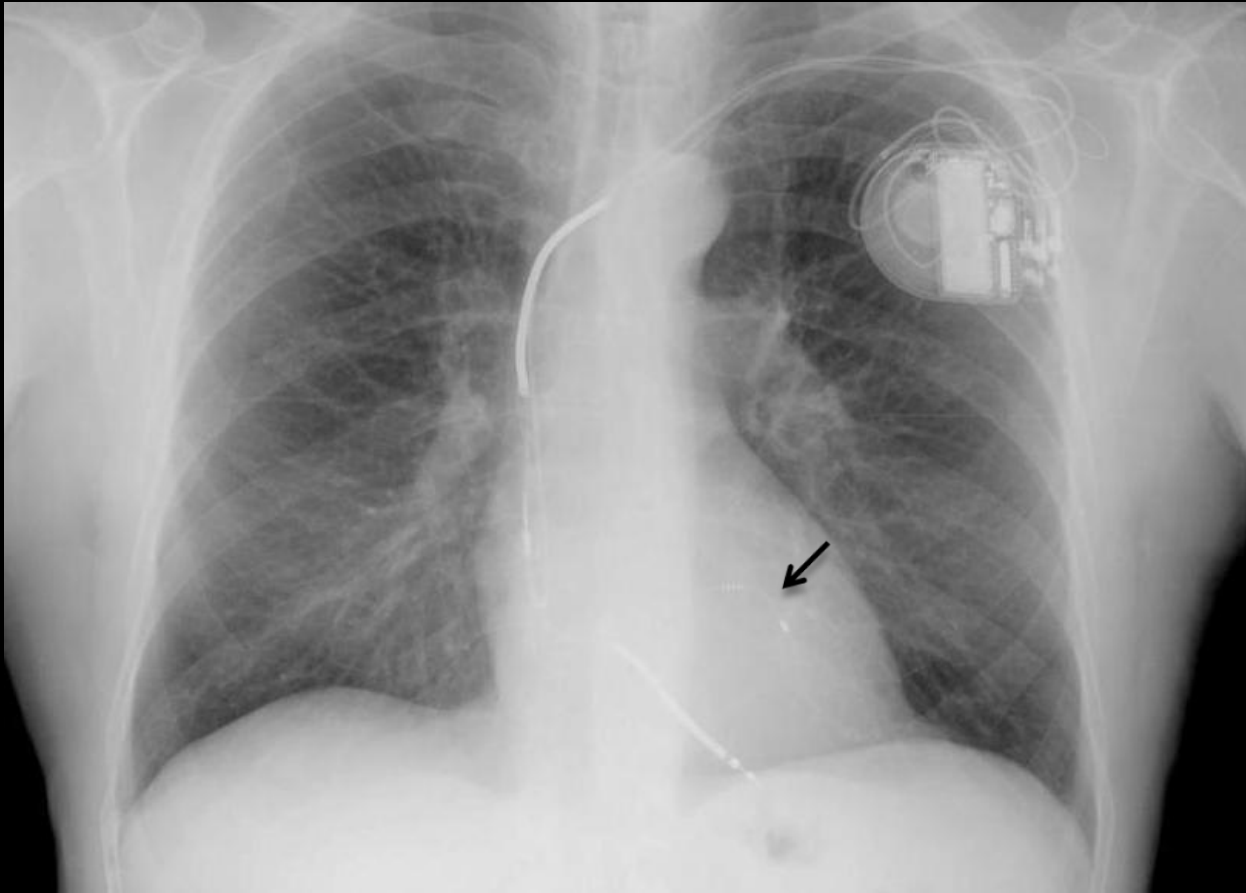
Potássio (mEq/L)



Seguimento



RX tórax



Ecocardiograma transtorácico pós-CRT

Pré-CRT (FEj=24%)  **Pós-CRT (FEj=53%)**
6 meses

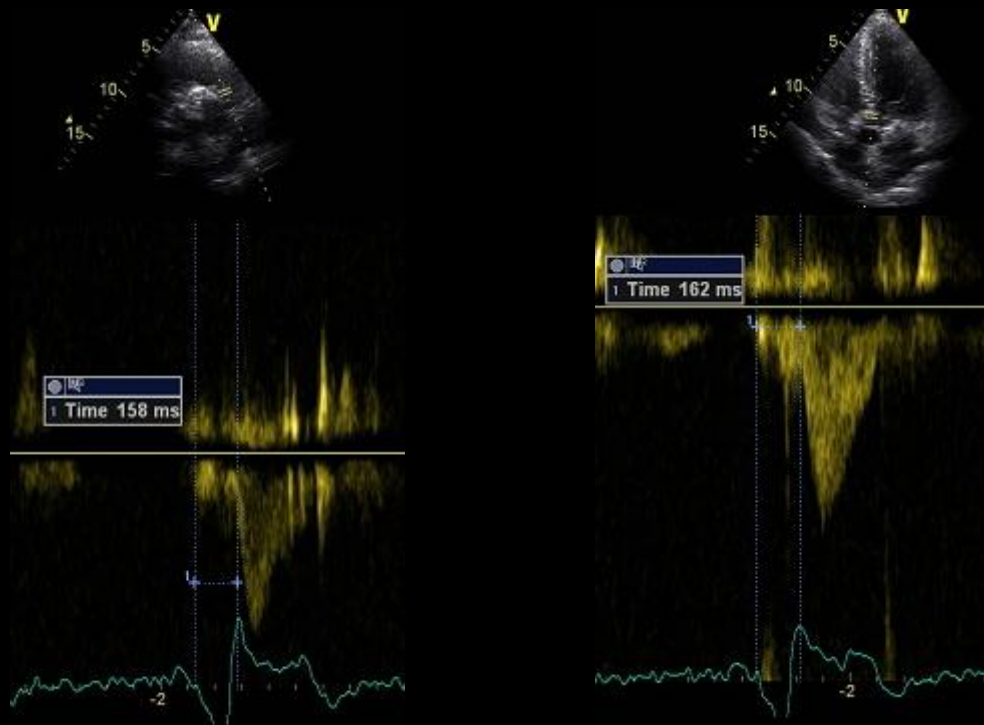
Remodelagem reversa VE com ↓ dos volumes ventriculares
VTD: 243 → 94 mL
VTS: 156 → 44 mL



Ecocardiograma transtorácico

Dessincronia interventricular:

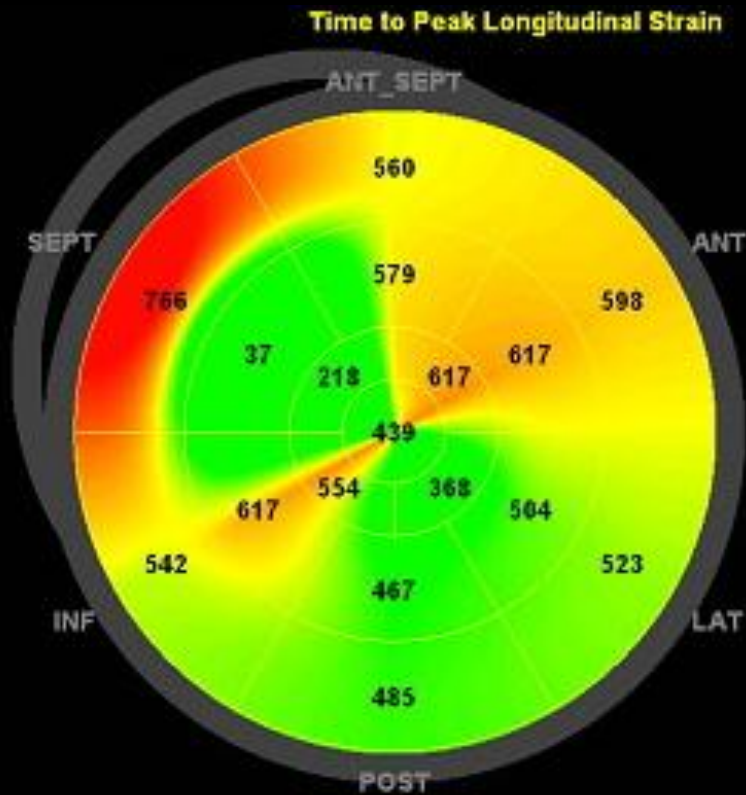
- 4ms $\neq$ t pré-ejecção fluxos pulmonar (162 ms) e aórtico (158 ms)



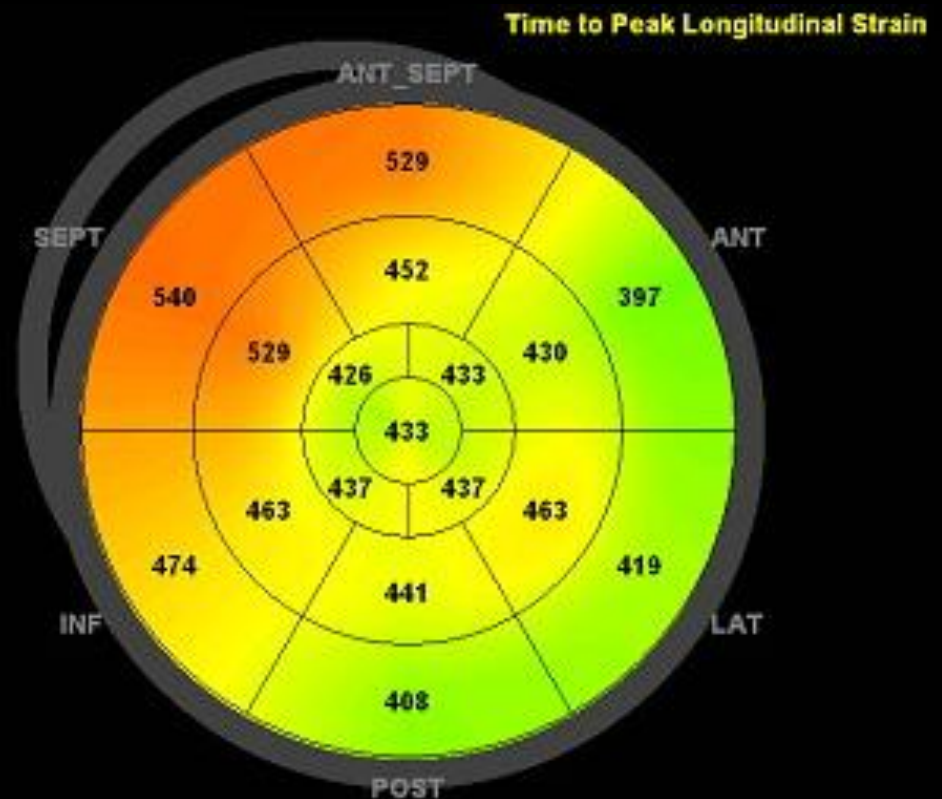
Ecocardiograma transtorácico pós-CRT

Dessincronia intraventricular: índice de Yu (SD 12) = 195ms → 45ms

Pré-CRT



Pós-CRT



Follow-up

- ▶ Clínica: NYHA I, sem alterações ao exame objectivo
- ▶ Analiticamente: NTproBNP 29pg/mL
- ▶ Ecocardiograma TT: FEj=53%
- ▶ Medicação actual:
 - ▶ Espironolactona 25mg/dia
 - ▶ Carvedilol 18,75mg/dia
 - ▶ Ramipril 7,5mg/dia
 - ▶ Ivabradina 7,5mg 2id
 - ▶ Sinvastatina 20mg



Fim

- ▶ Obrigado pela atenção!

- ▶ Agradecimentos

 - ▶ Dr. Nuno Lousada

 - ▶ Dr. Luís Sargento

