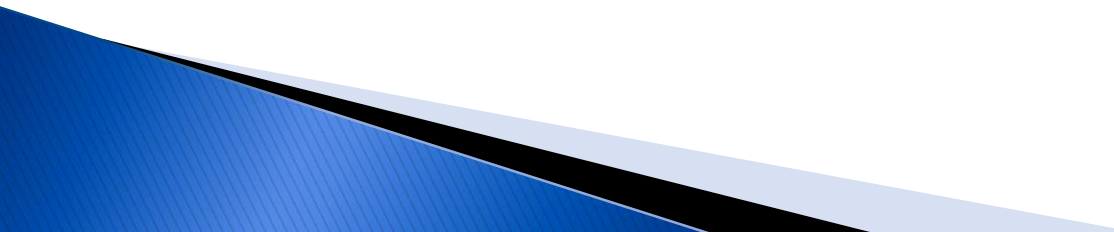


**Focal atrial tachycardia originating
from the coronary sinus ostium :
Shall we think about the mitral
annulus ?**

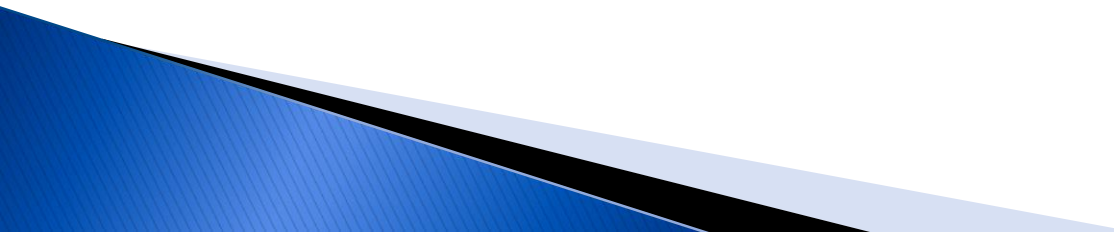
**Naccache.S; Halimi.F; Leclercq.JF
CMC Parly II**

Introduction

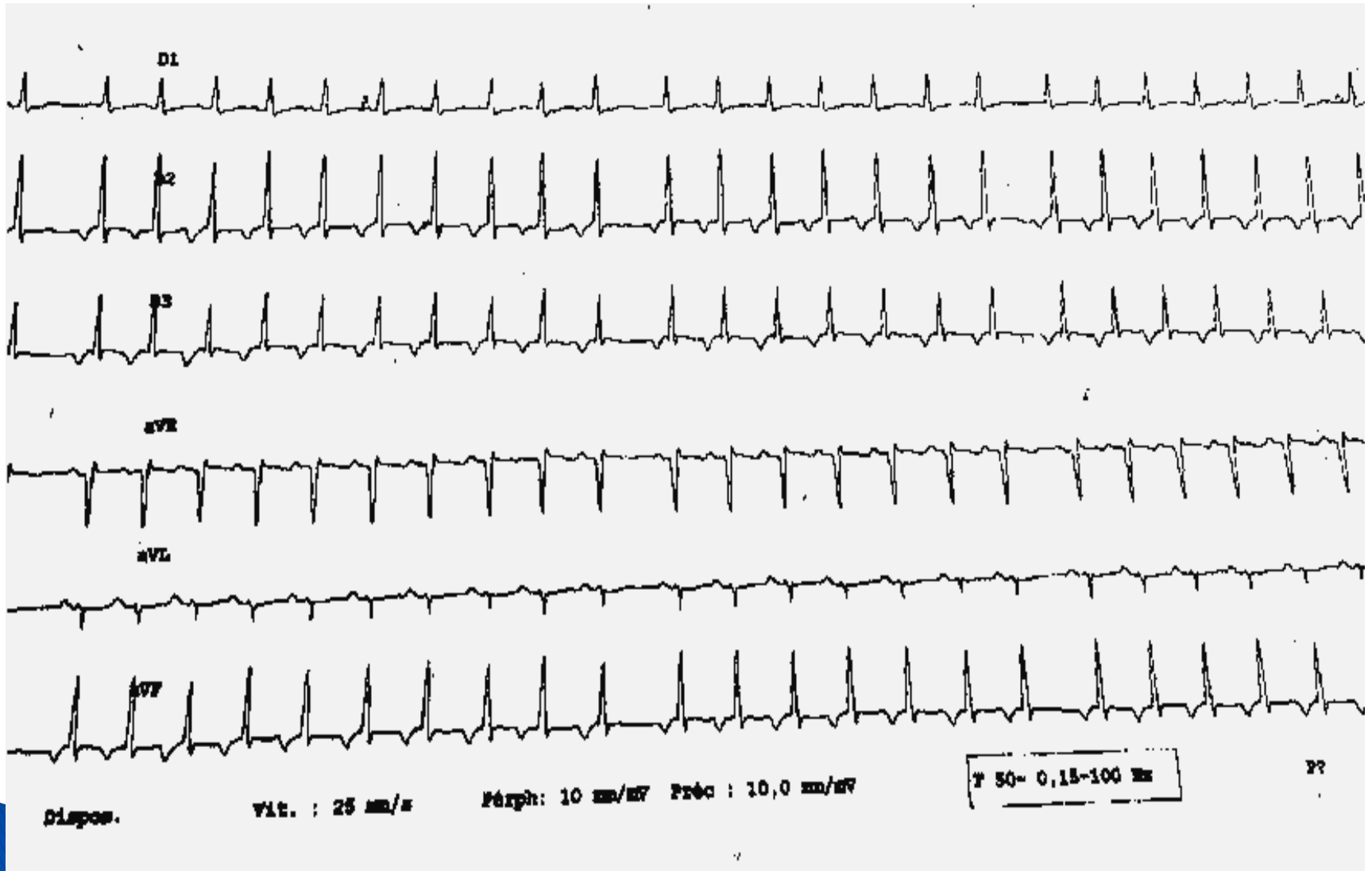
Focal atrial tachycardia :

- ▶ Uncommon cause of supraventricular tachycardia
 - ▶ Difficult to treat medically
 - ▶ Catheter ablation +++
 - ▶ Anatomic localization not always obvious
- 

Case report

- ▶ A 33-year old male
 - ▶ Long medical history of incessant atrial tachycardia
 - ▶ Catheter ablation : refused by the patient
 - ▶ Symptoms : Dyspnea
- 

Case report



Case report

- ▶ Transthoracic echocardiography : Dilated cardiomyopathy with depressed LVEF (30%)



- ▶ Cardiac MRI eliminated an underlying cardiomyopathy

Case report

- ▶ Tachycardia-induced cardiomyopathy



RF Ablation

Case report

- ▶ supraventricular tachycardia
- ▶ Negative p waves in inferior leads



Focal atrial tachycardia ?



Coronary sinus ostium ?

Case report

- ▶ He was admitted in a first medical center

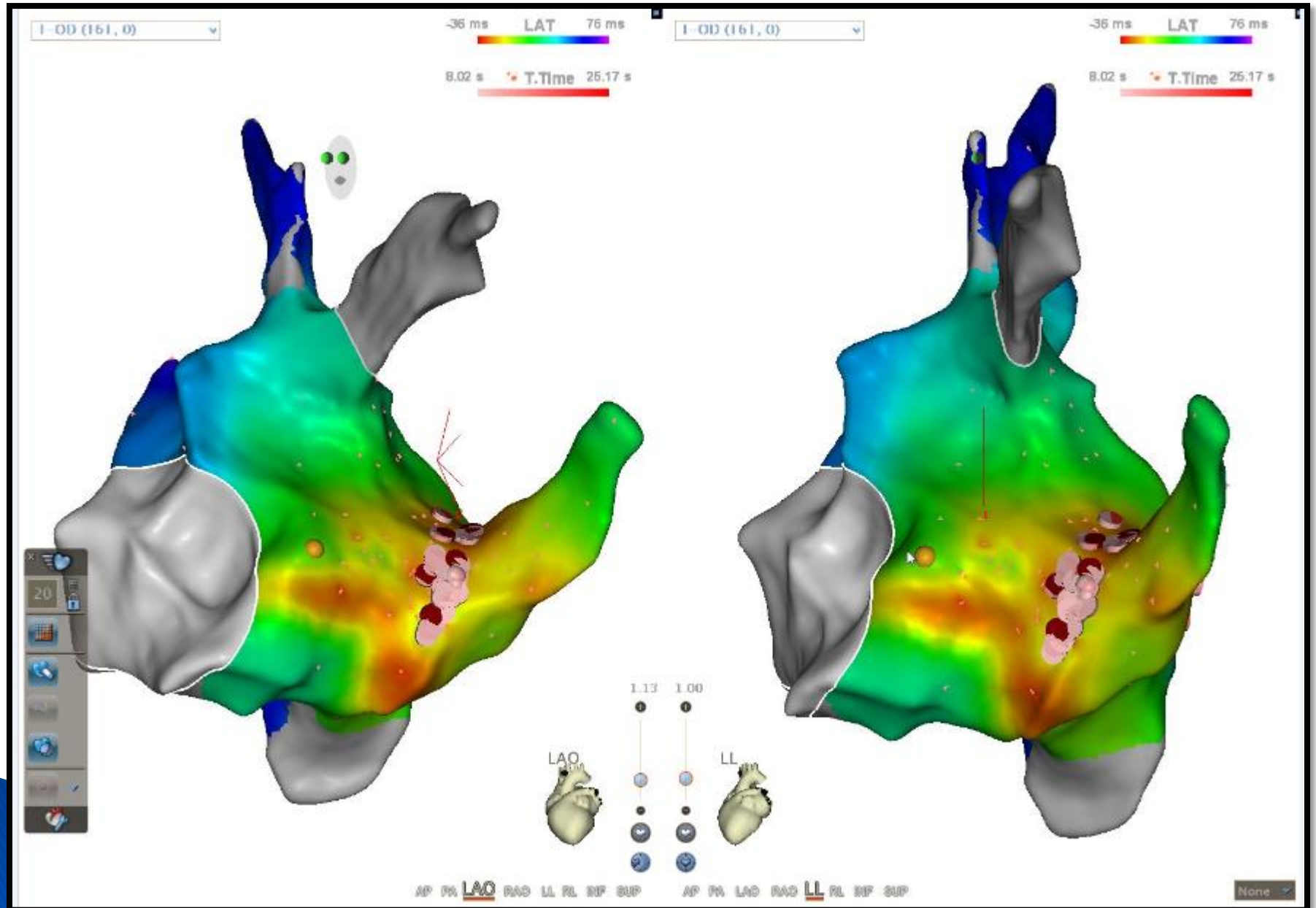
- ▶ EP Study + Carto 3D system : focal atrial

Tachycardia originating from the coronary sinus
ostium.

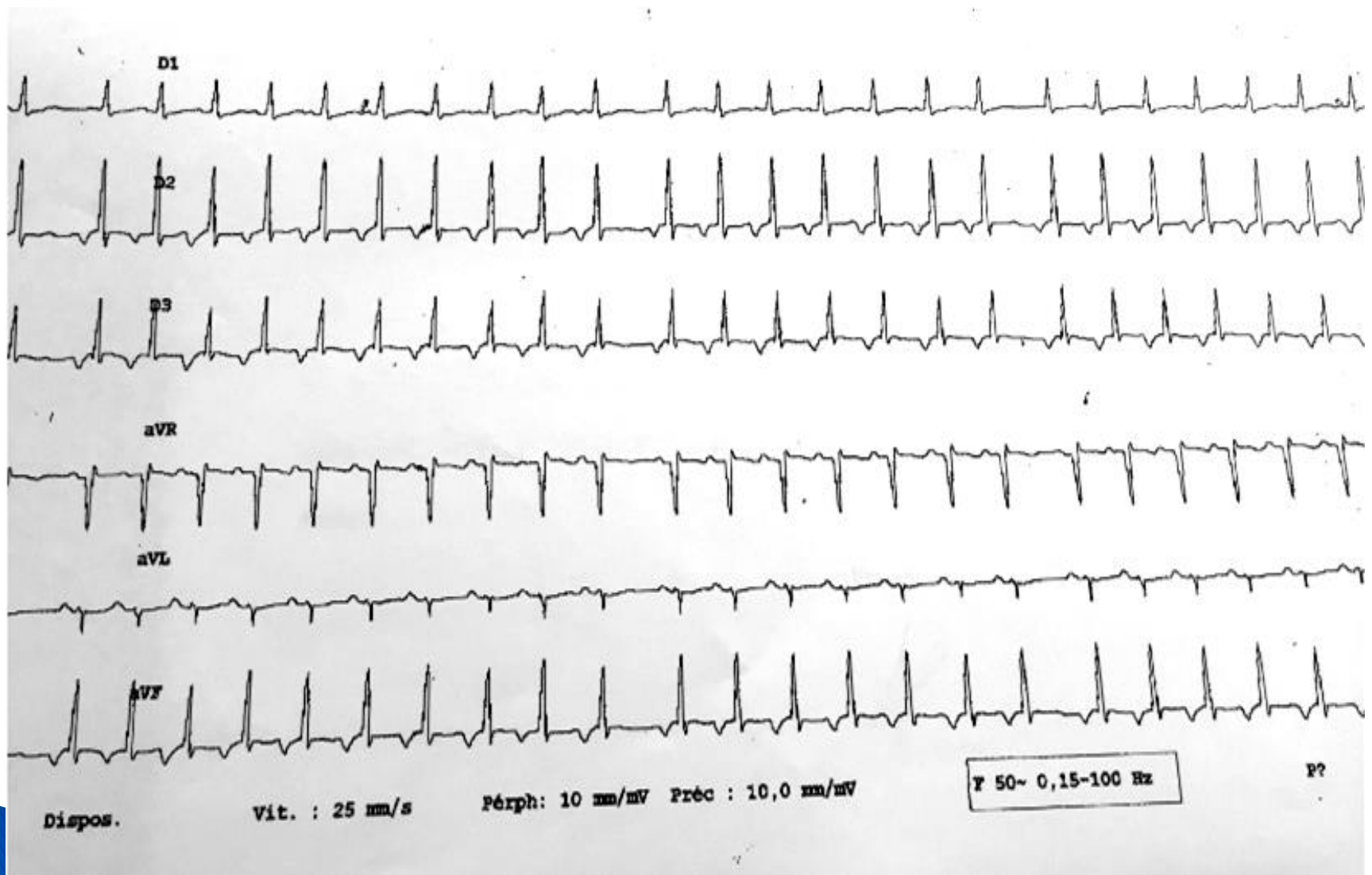
- ▶ RF ablation



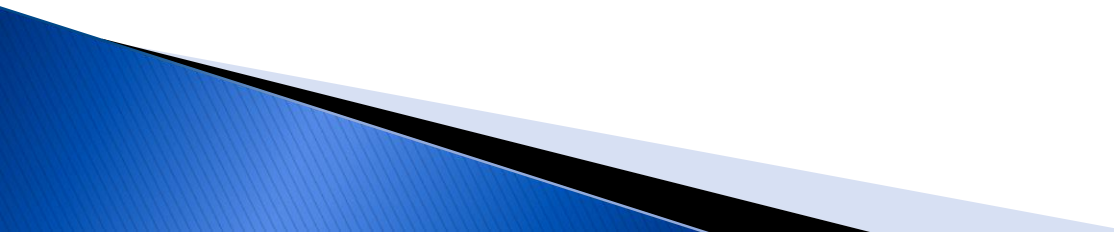
RF ablation



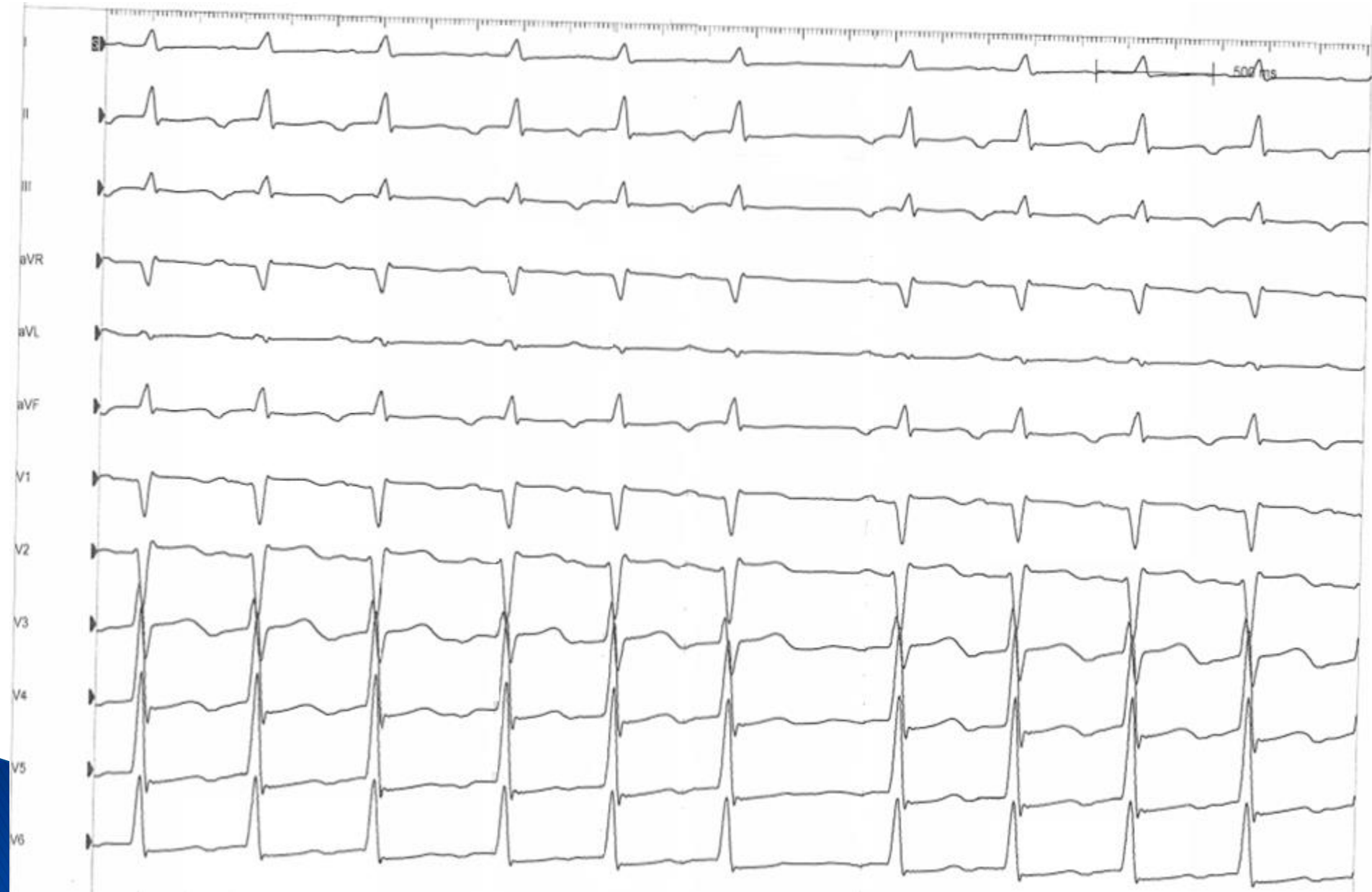
Case report



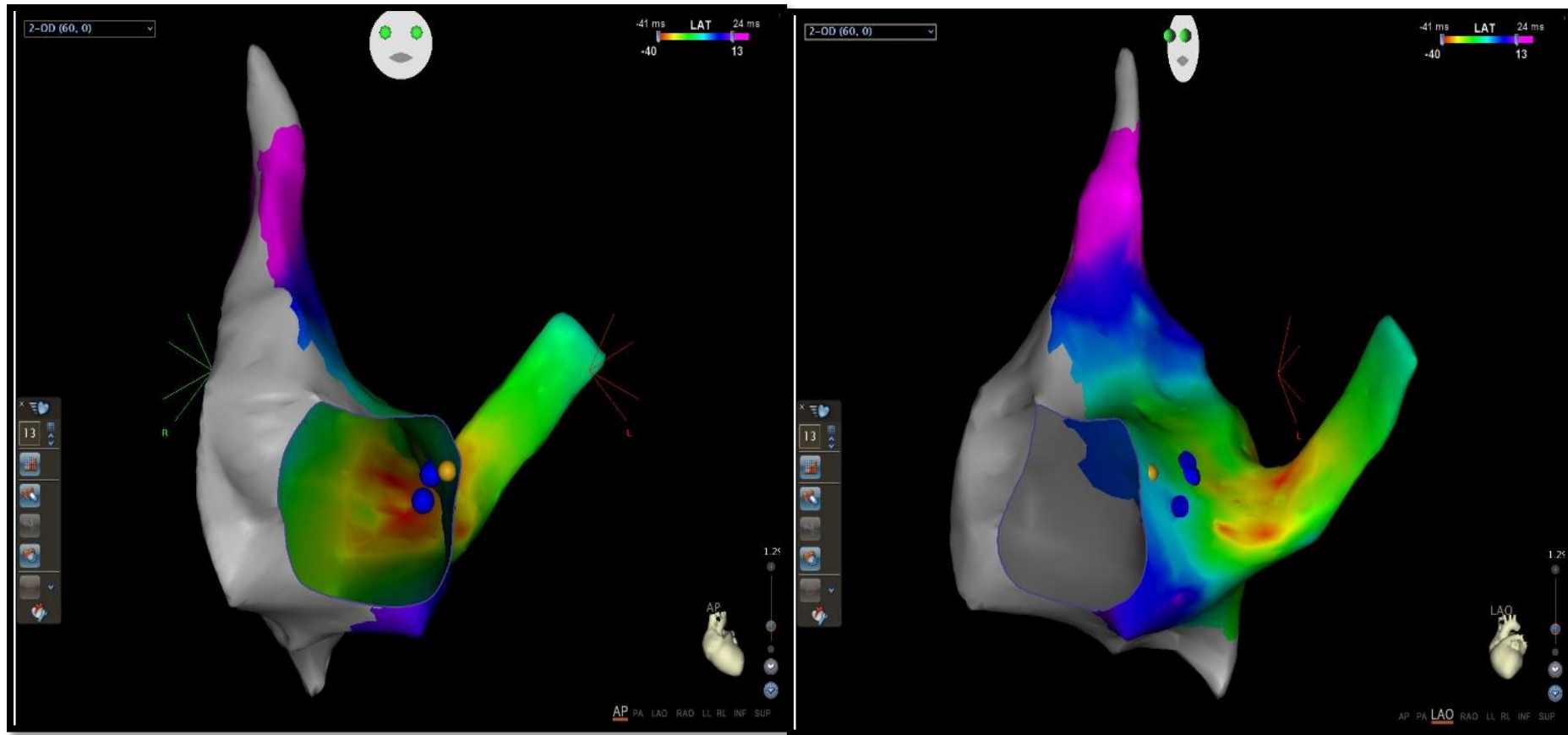
Case report

- ▶ Admitted in our center 4 months later for dyspnea
 - ▶ Physical examination : Heart failure (NYHA II-III)
 - ▶ Transthoracic echocardiography : LVEF = 25%
 - ▶ ECG ...
- 

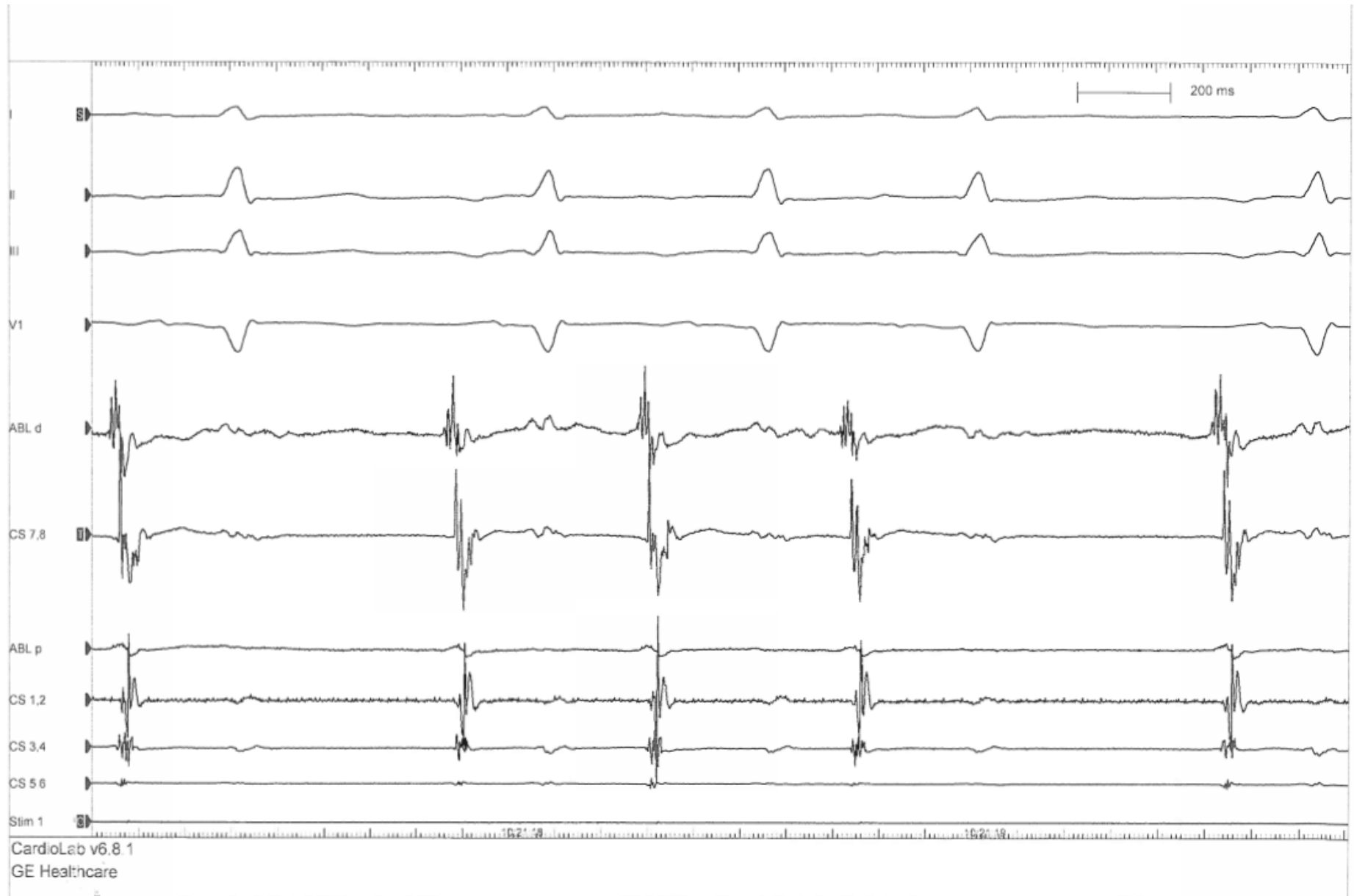
ECG ...



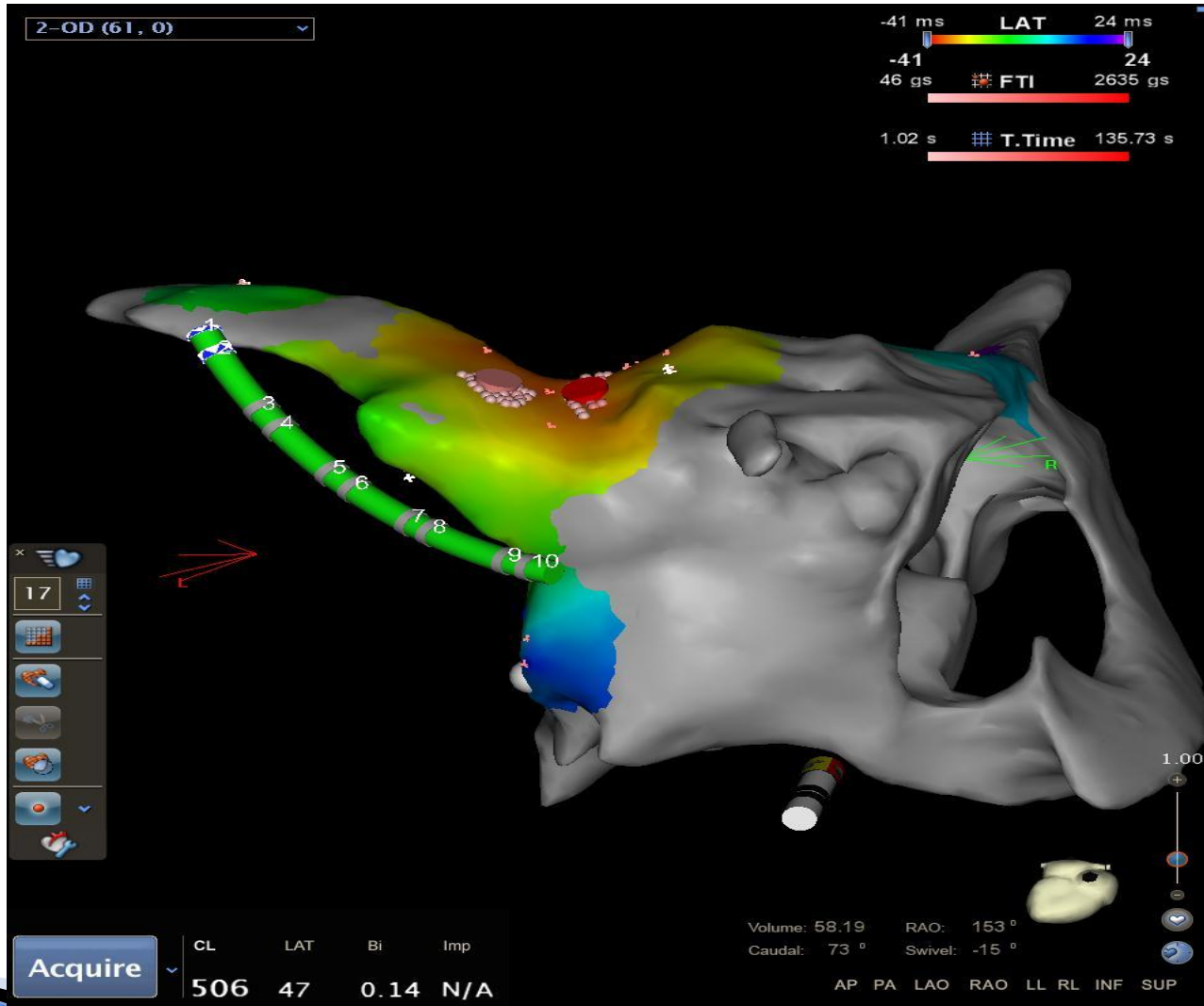
Right atrial mapping...



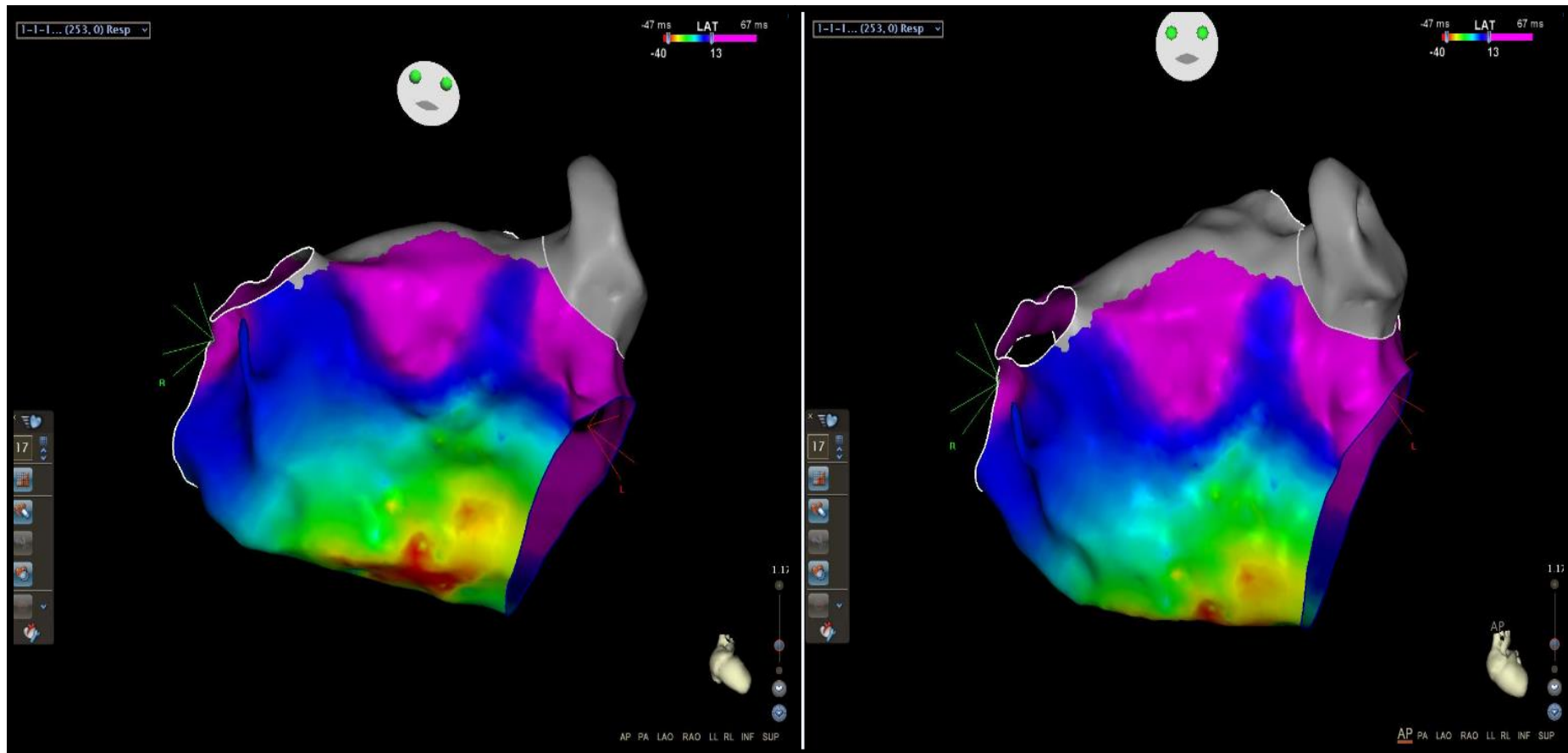
Right atrial mapping...



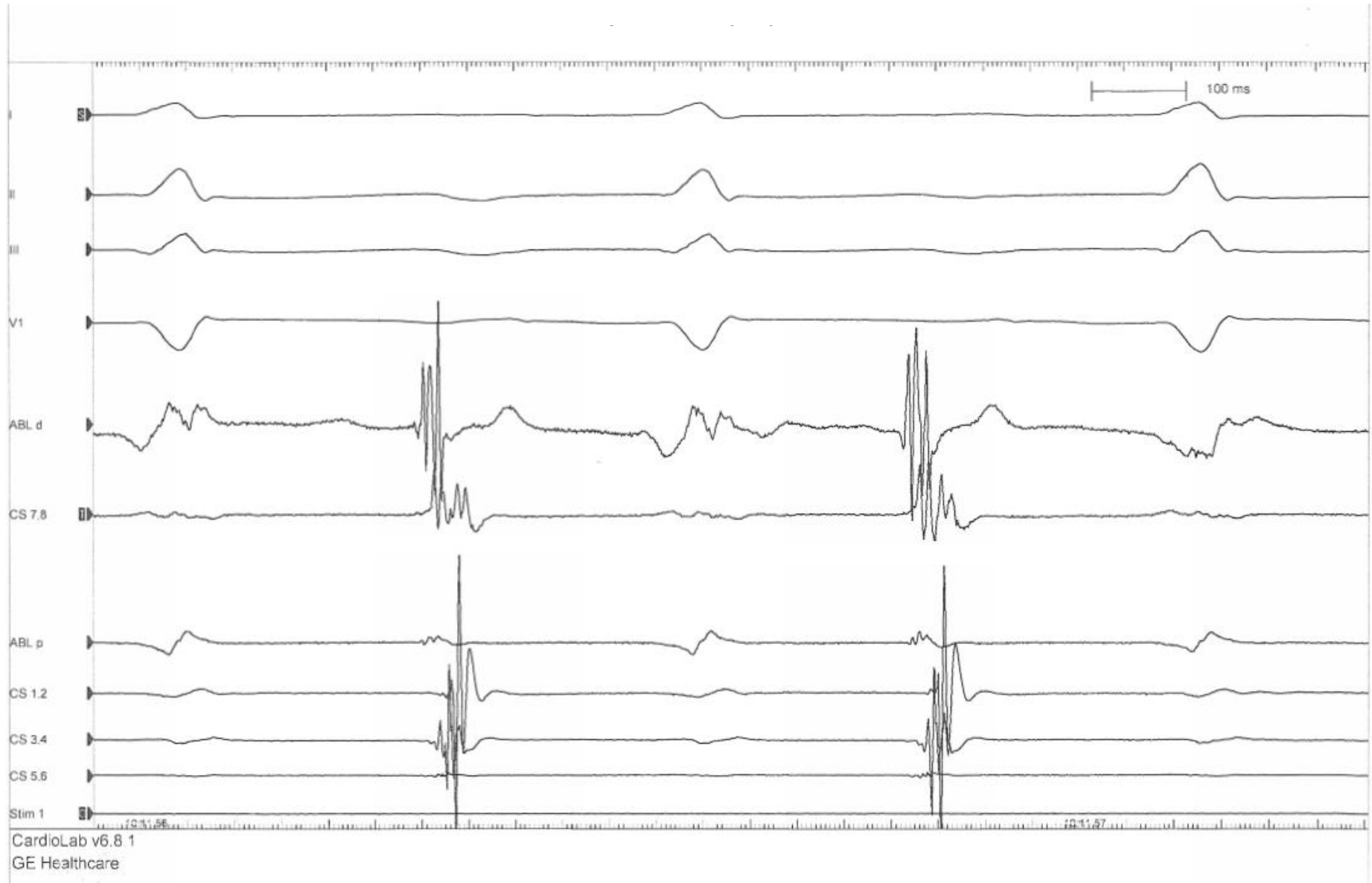
Right atrial ablation



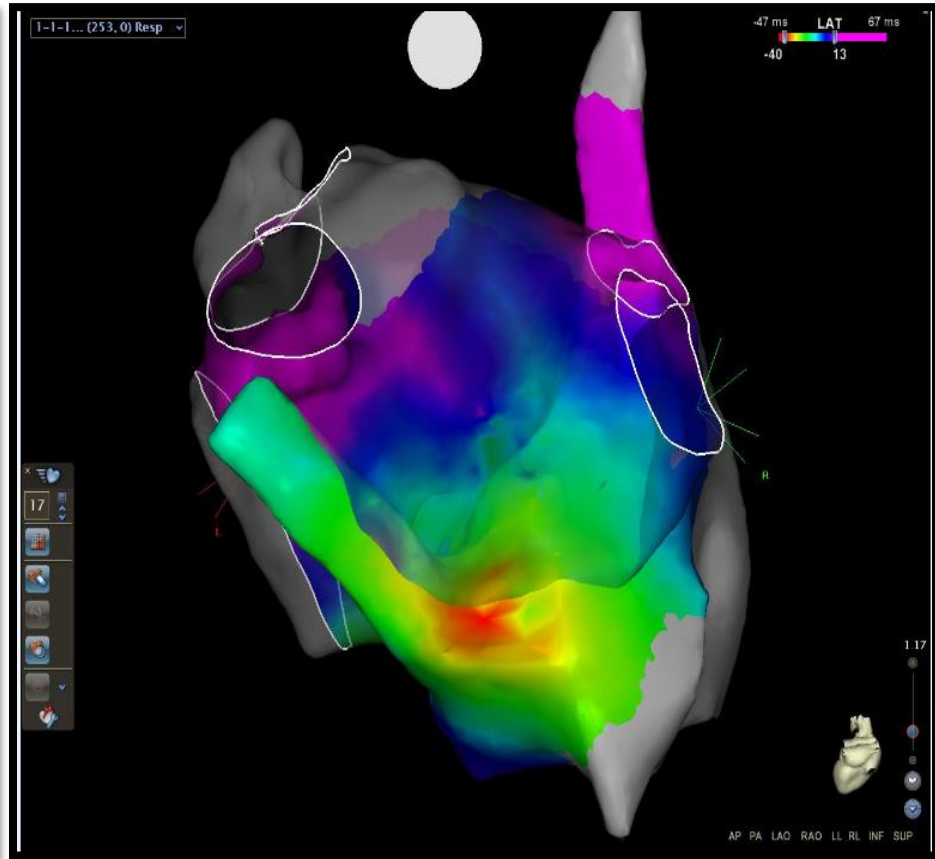
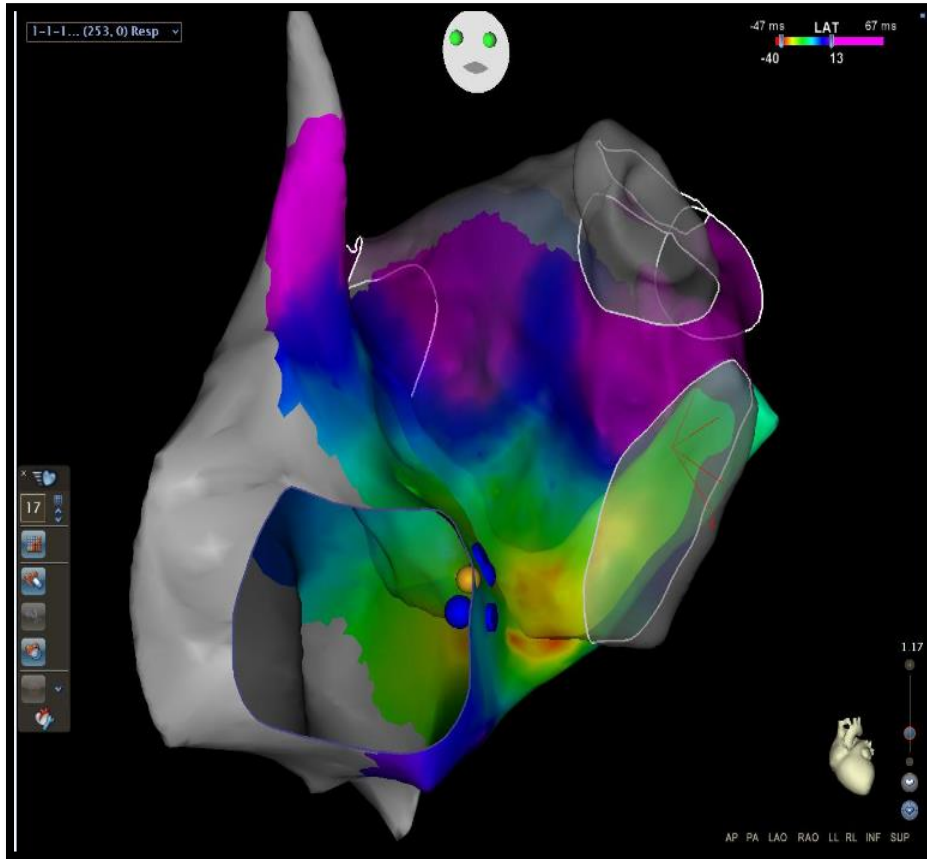
Left atrial mapping ...



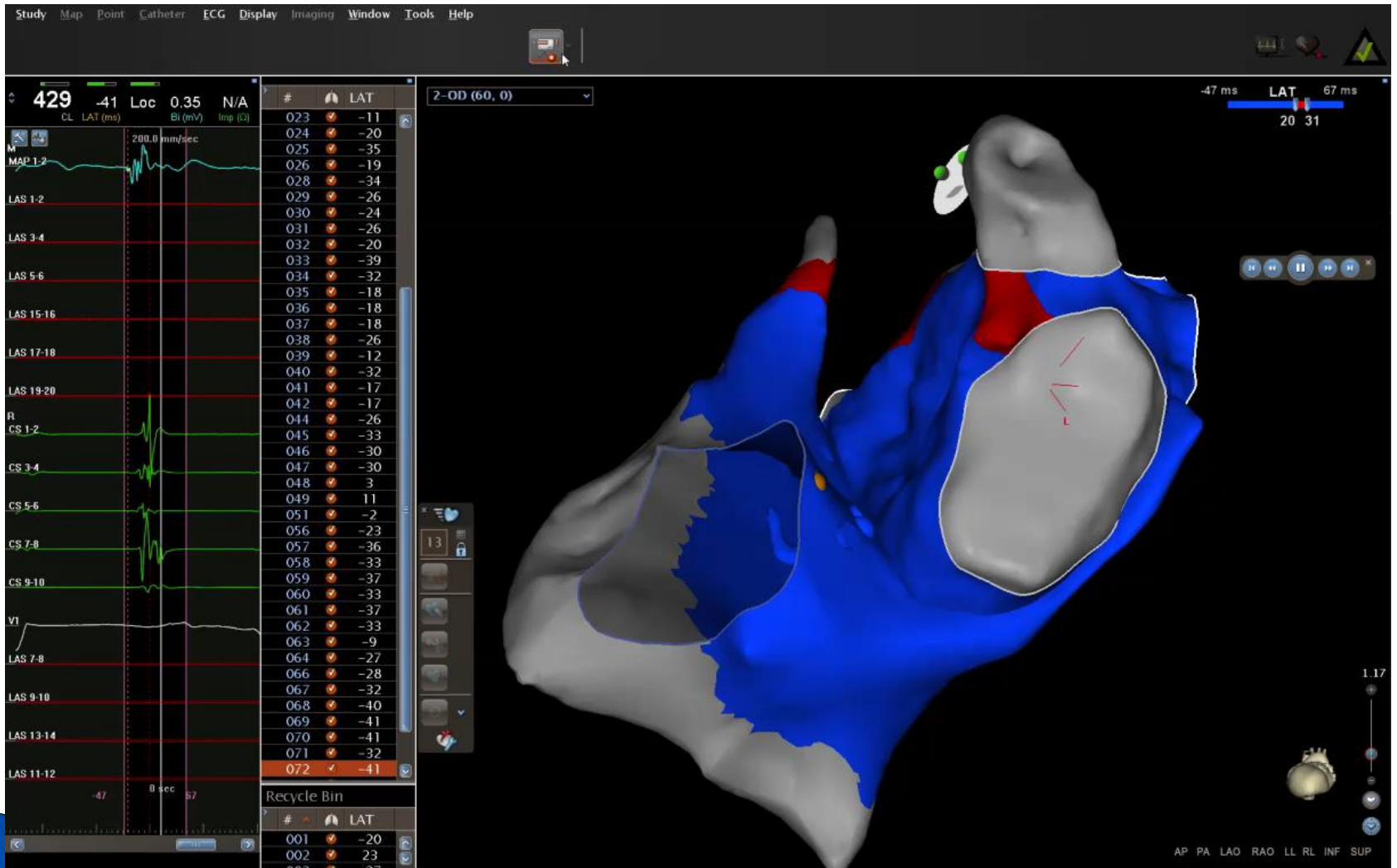
Left atrial mapping...



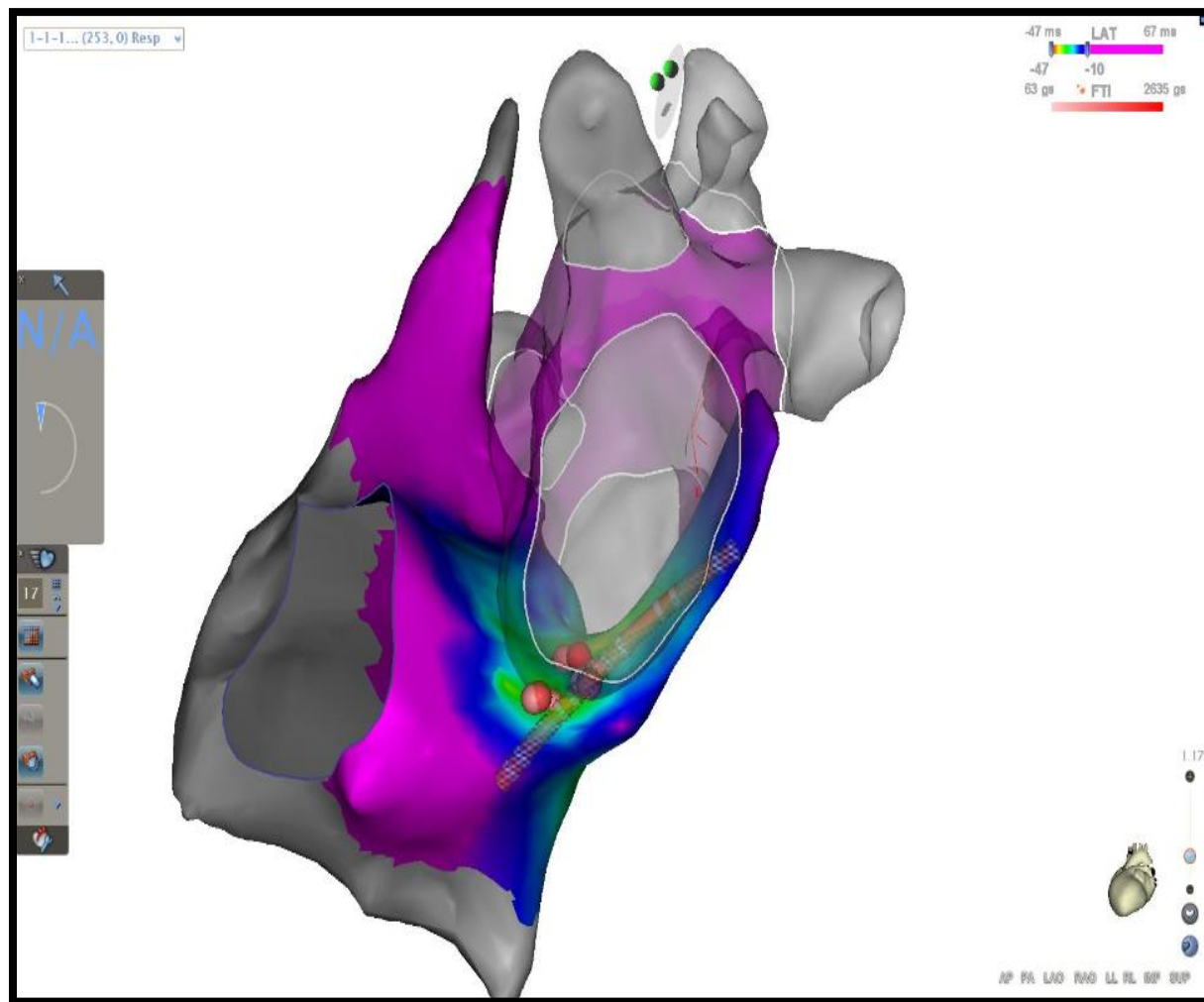
Biatrial mapping



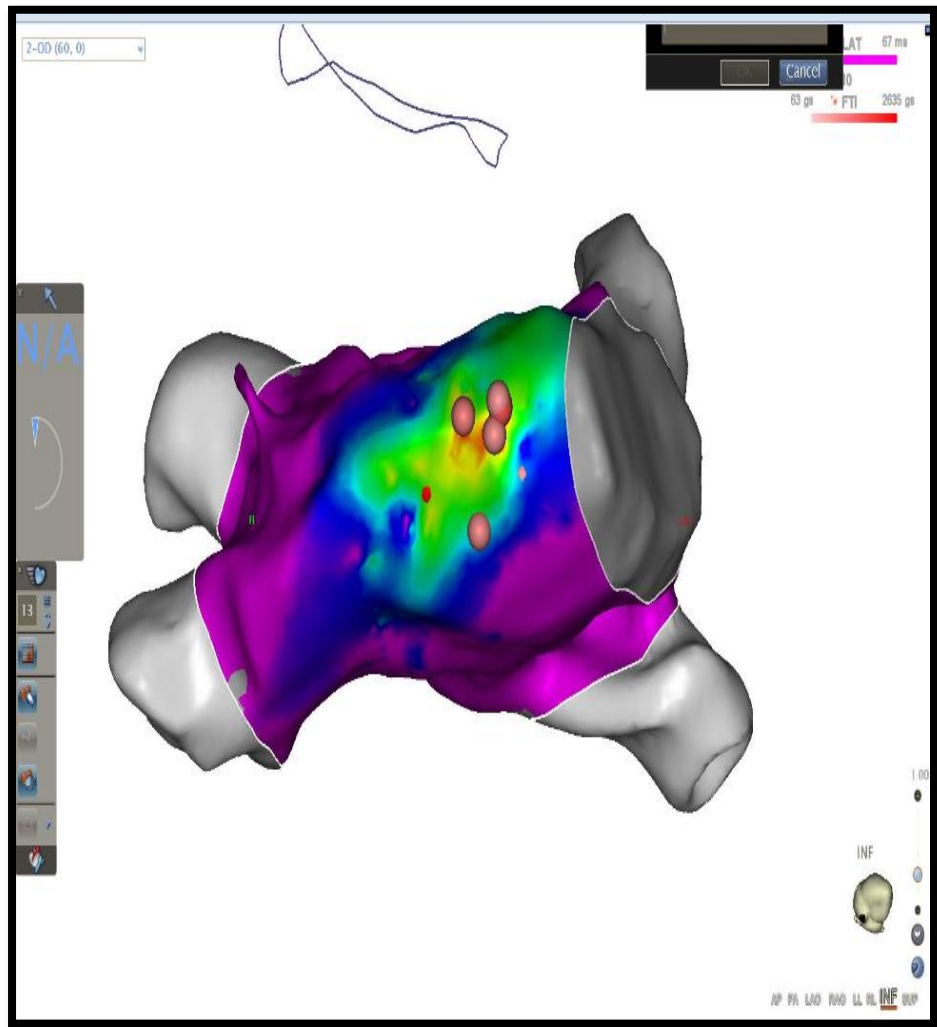
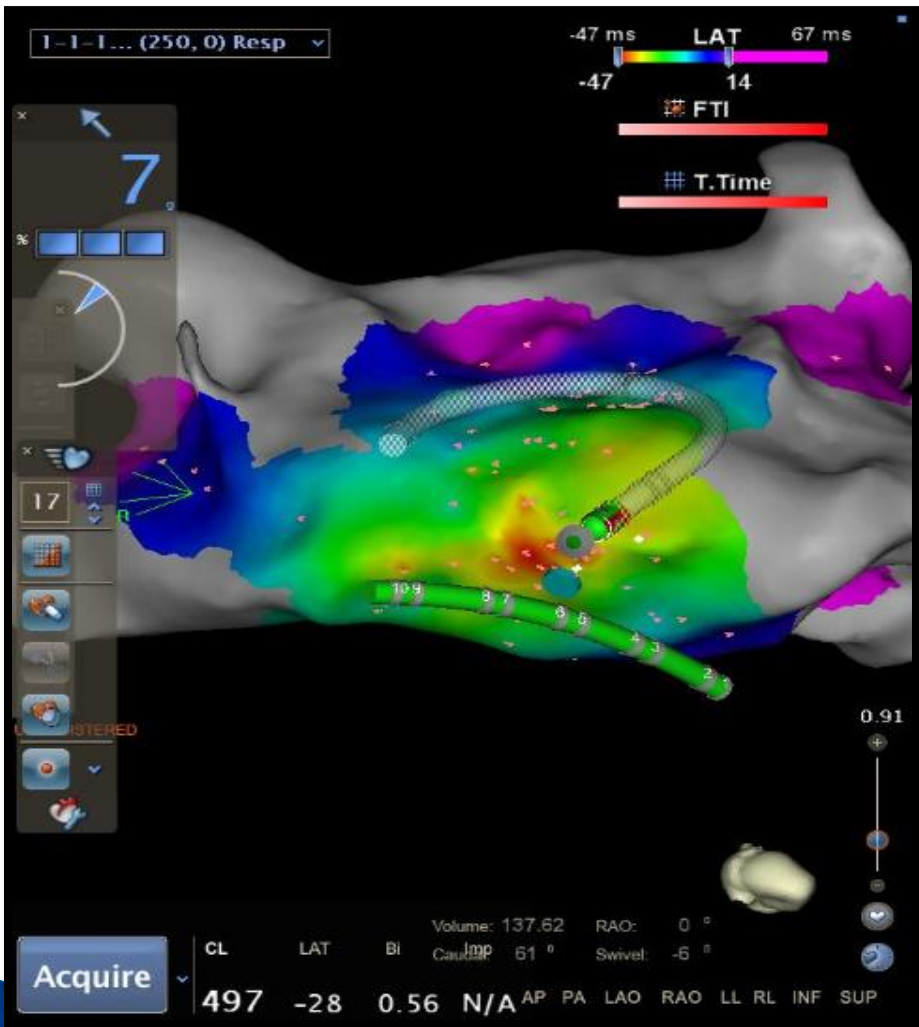
Biatrial mapping : Activation card



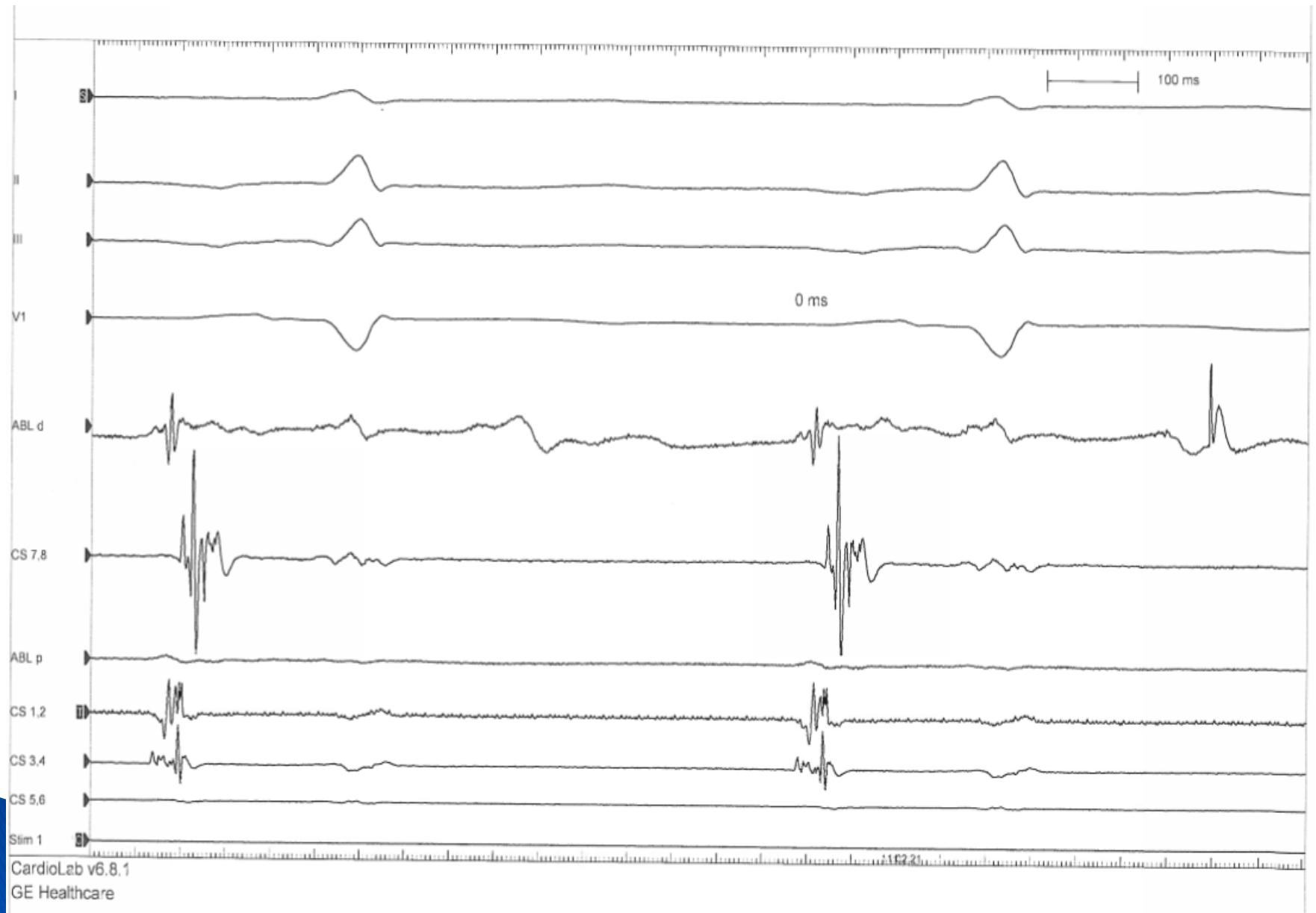
RF ablation



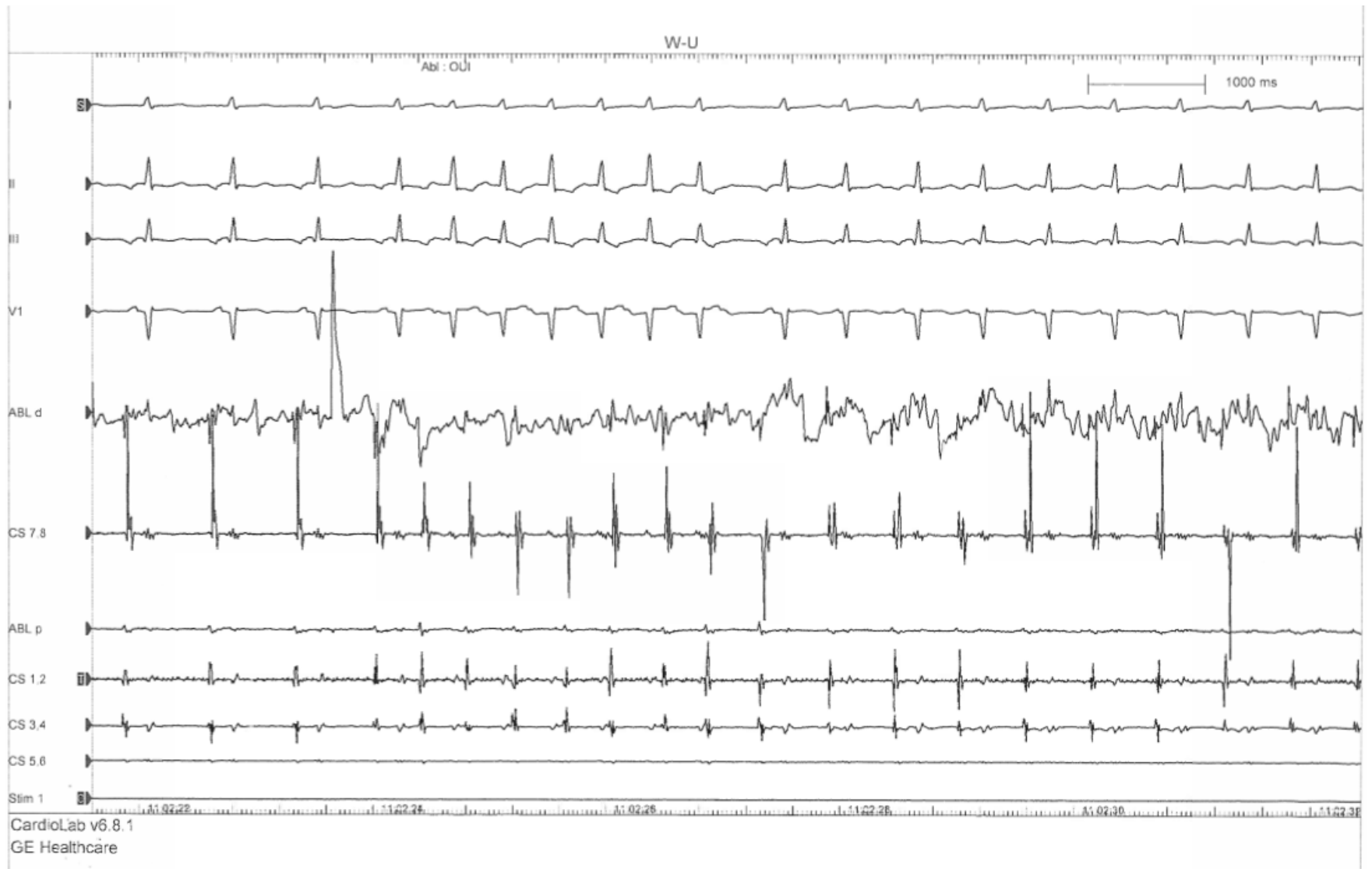
RF ablation



RF ablation



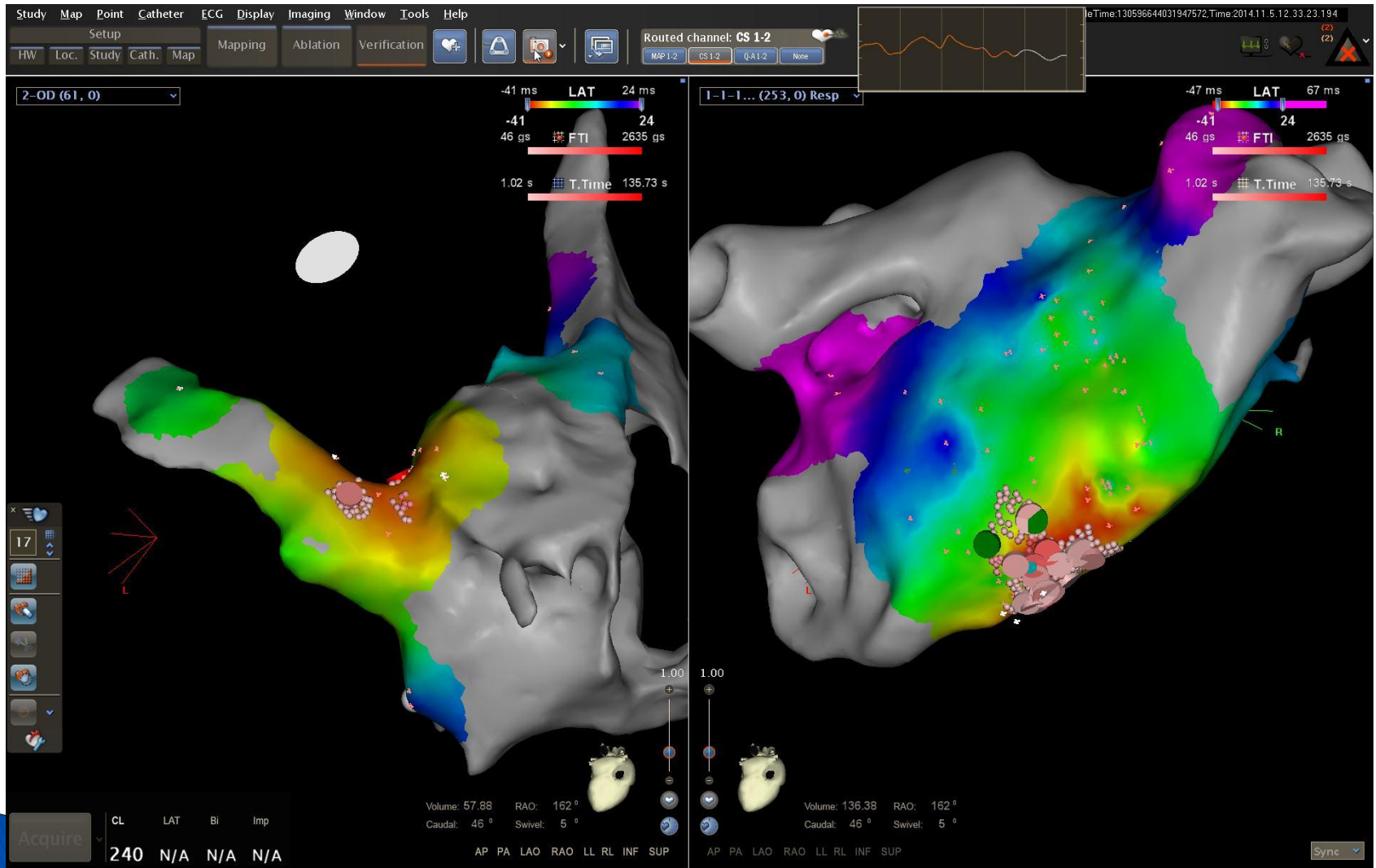
RF ablation



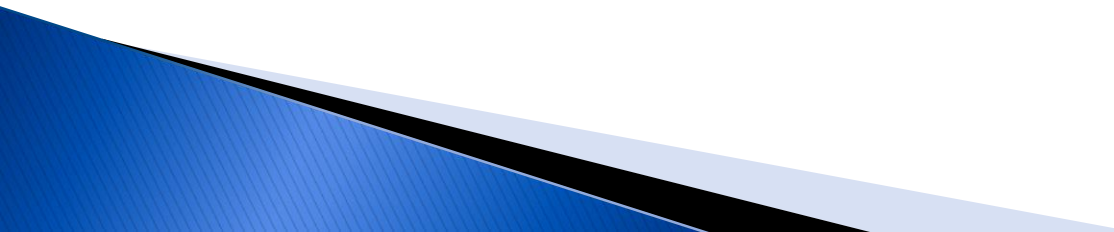
Finally ...



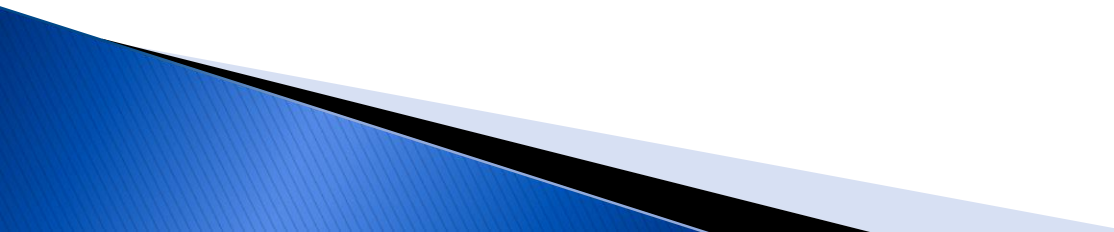
RF ablation



Clinical outcome

- ▶ 3 months later
 - ▶ Sinus rhythm
 - ▶ Normalization of LVEF
- 

Conclusion

- ▶ Localization of atrial tachycardia is not so obvious
 - ▶ Anatomical proximity of some cardiac structures
 - ▶ Changement of anatomic approach should be considered (RA → LA) in case of ablation failure
- 

**Thank you for your
attention**

