



Endo-epicardial ablation of ventricular tachycardia in a patient with idiopathic dilated cardiomyopathy

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Introduction

- ▶ RF ablation of VT : Challenging task
 - ▶ One possible limitation of endocardial ablation :
Re-entrant epicardial/ intra-myocardial circuits
 - ▶ Endo/Epicardial ablation
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Case Report

- ▶ A 63-year old male patient
 - ▶ Family medical history of ventricular arrhythmias
 - ▶ Idiopathic dilated cardiomyopathy with low EF
 - ▶ VF 8 years ago : Biventricular defibrillator
 - ▶ Idiopathic high atrio-ventricular block
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Case report

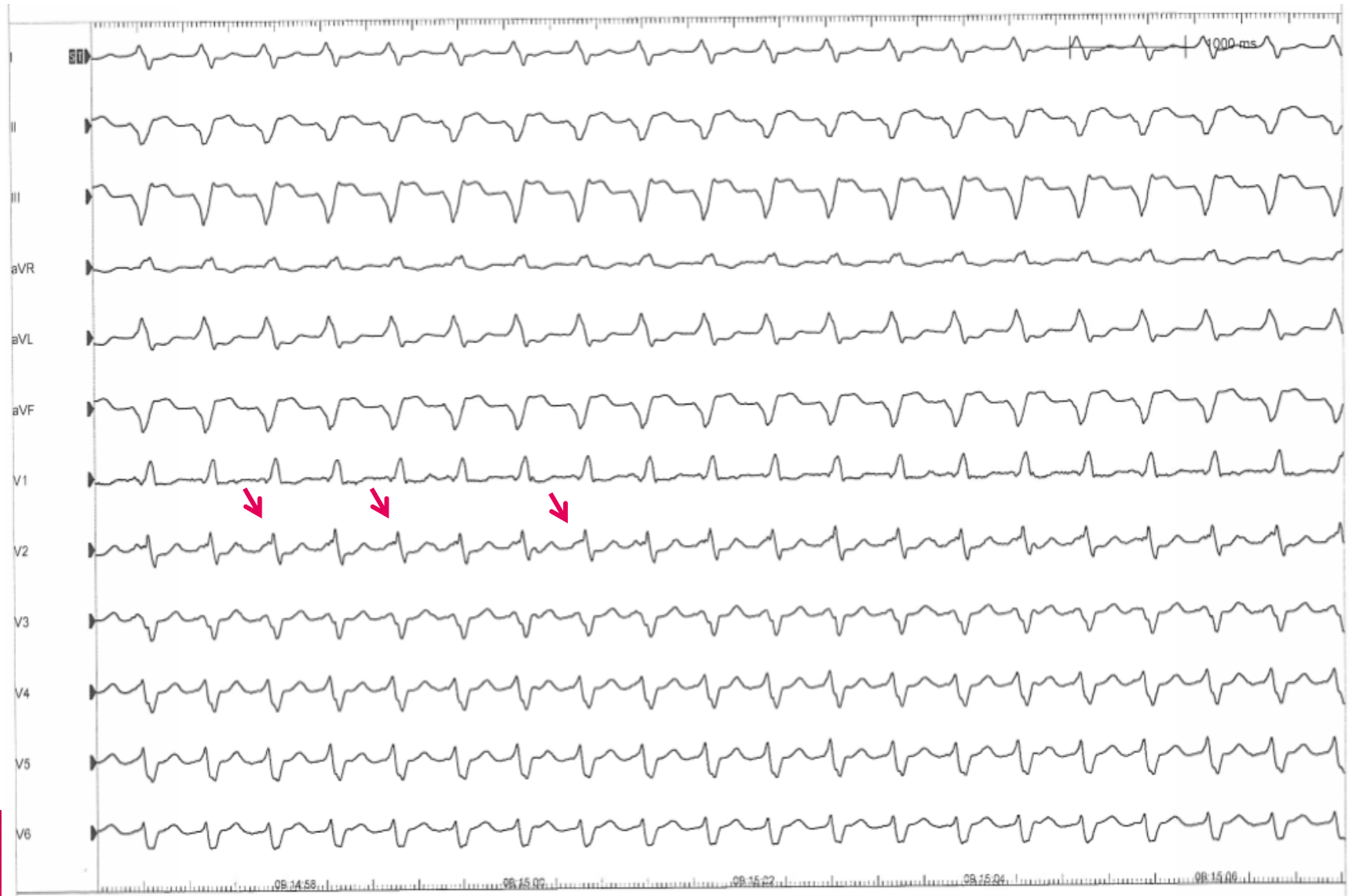
- ▶ Electrical storm : VT with RBBB morphology
- ▶ Endocardial ablation of postero-lateral wall of the
LV

Case report

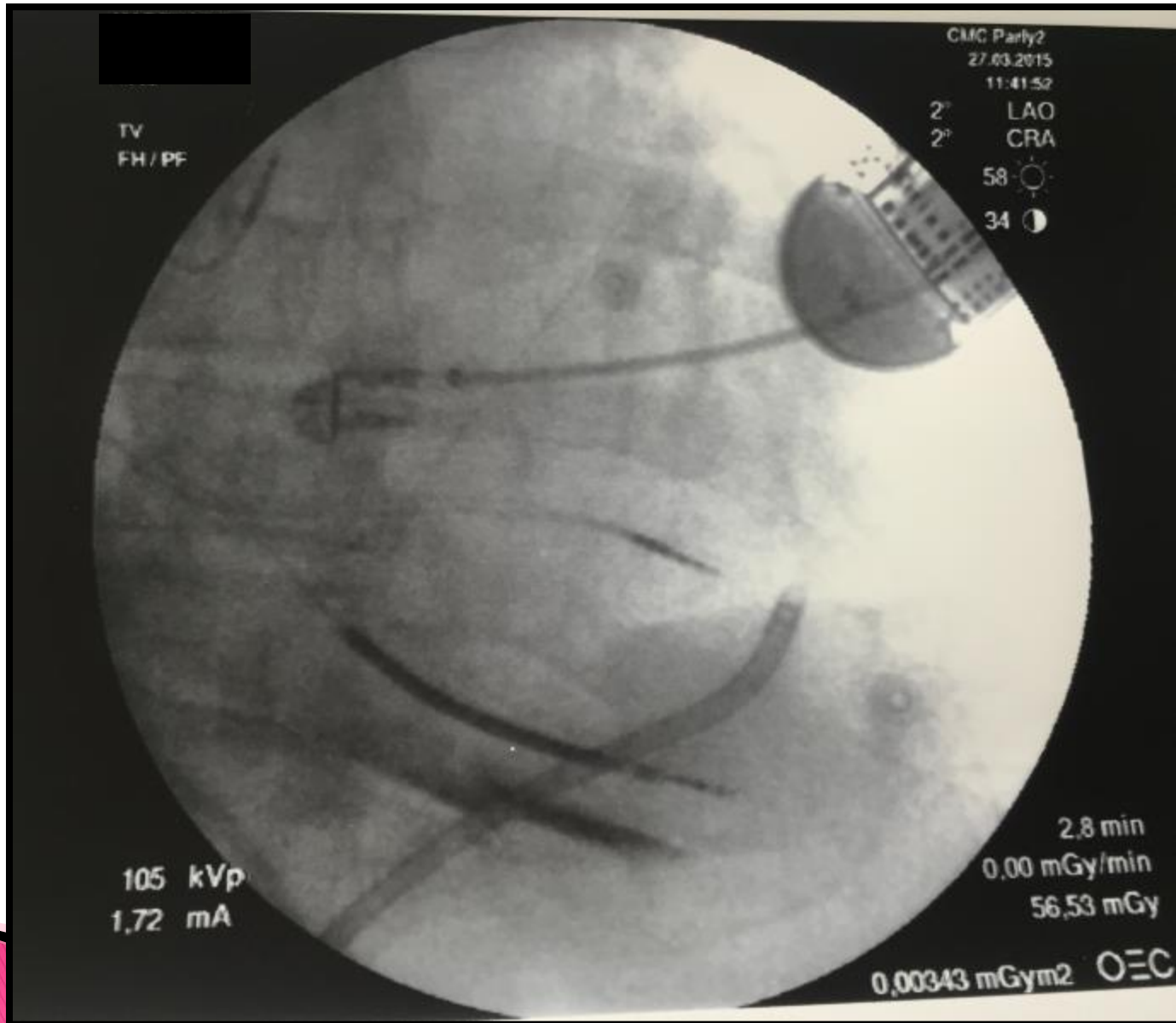
Few days later, he was admitted in our center ...



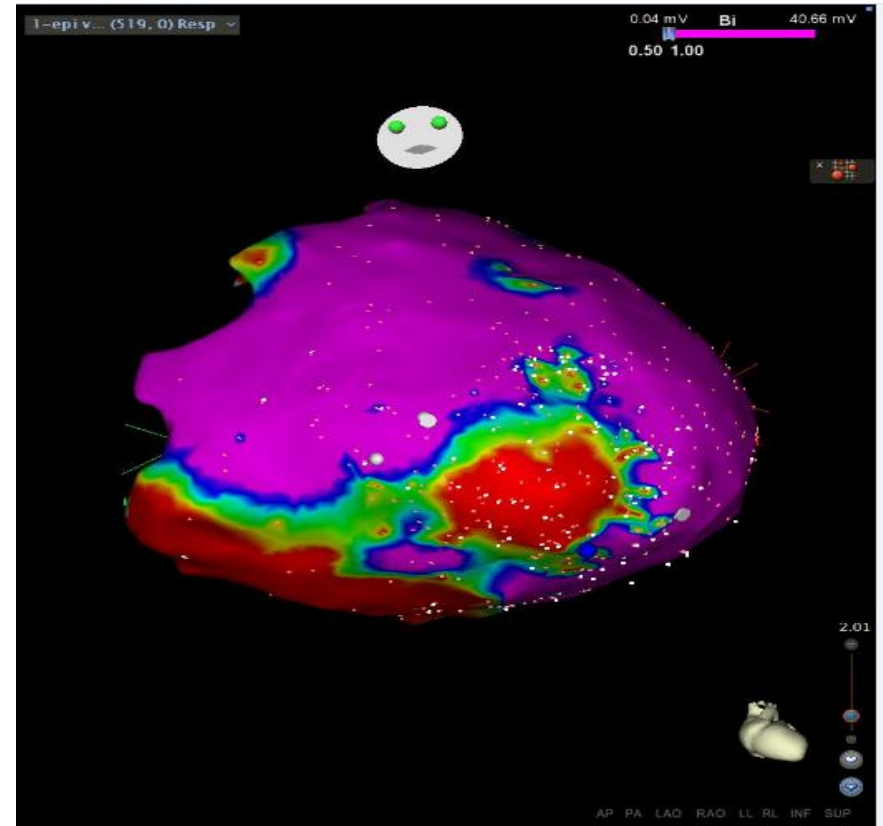
Case report



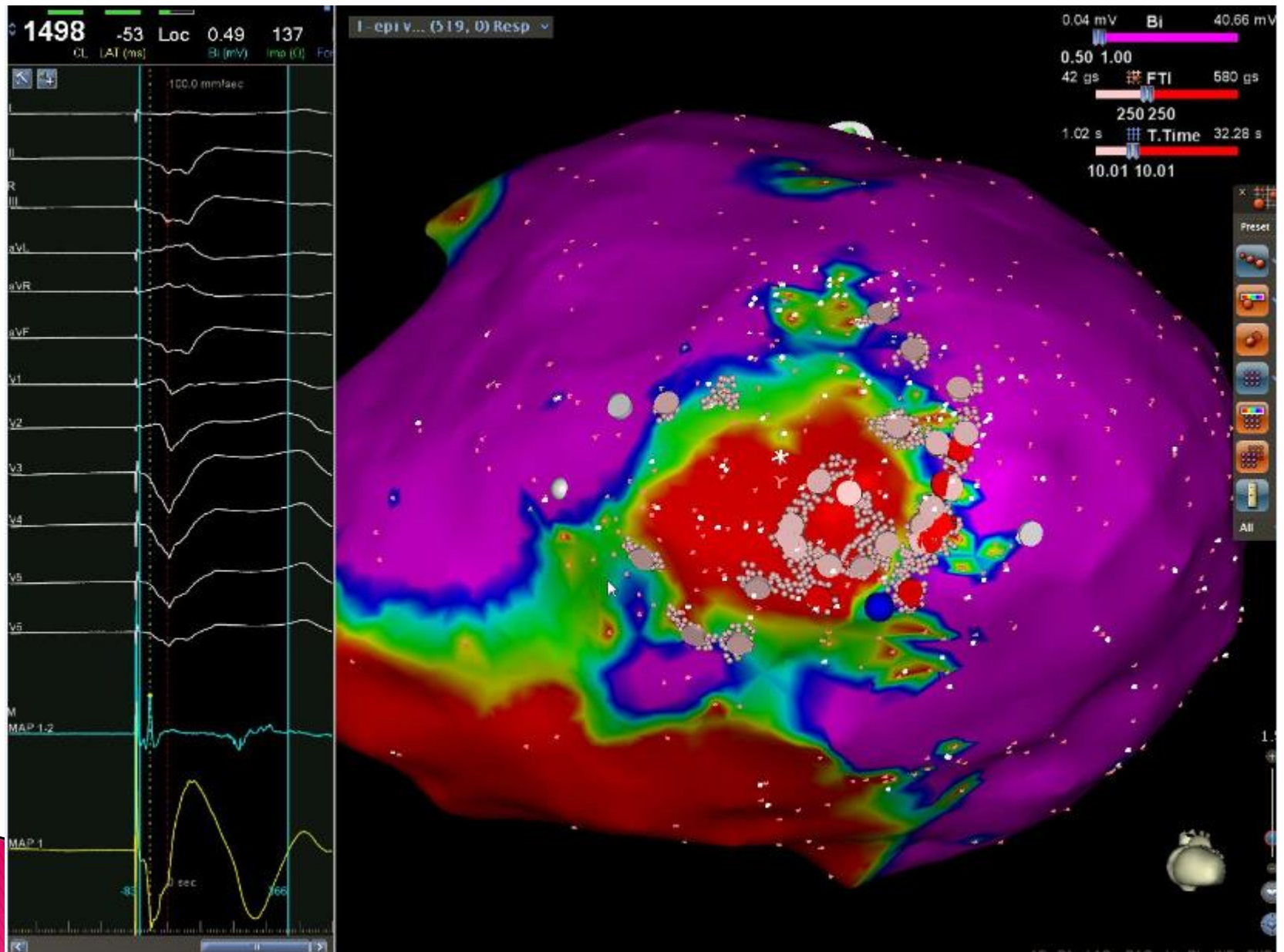
Pericardial approach



RV epicardial mapping



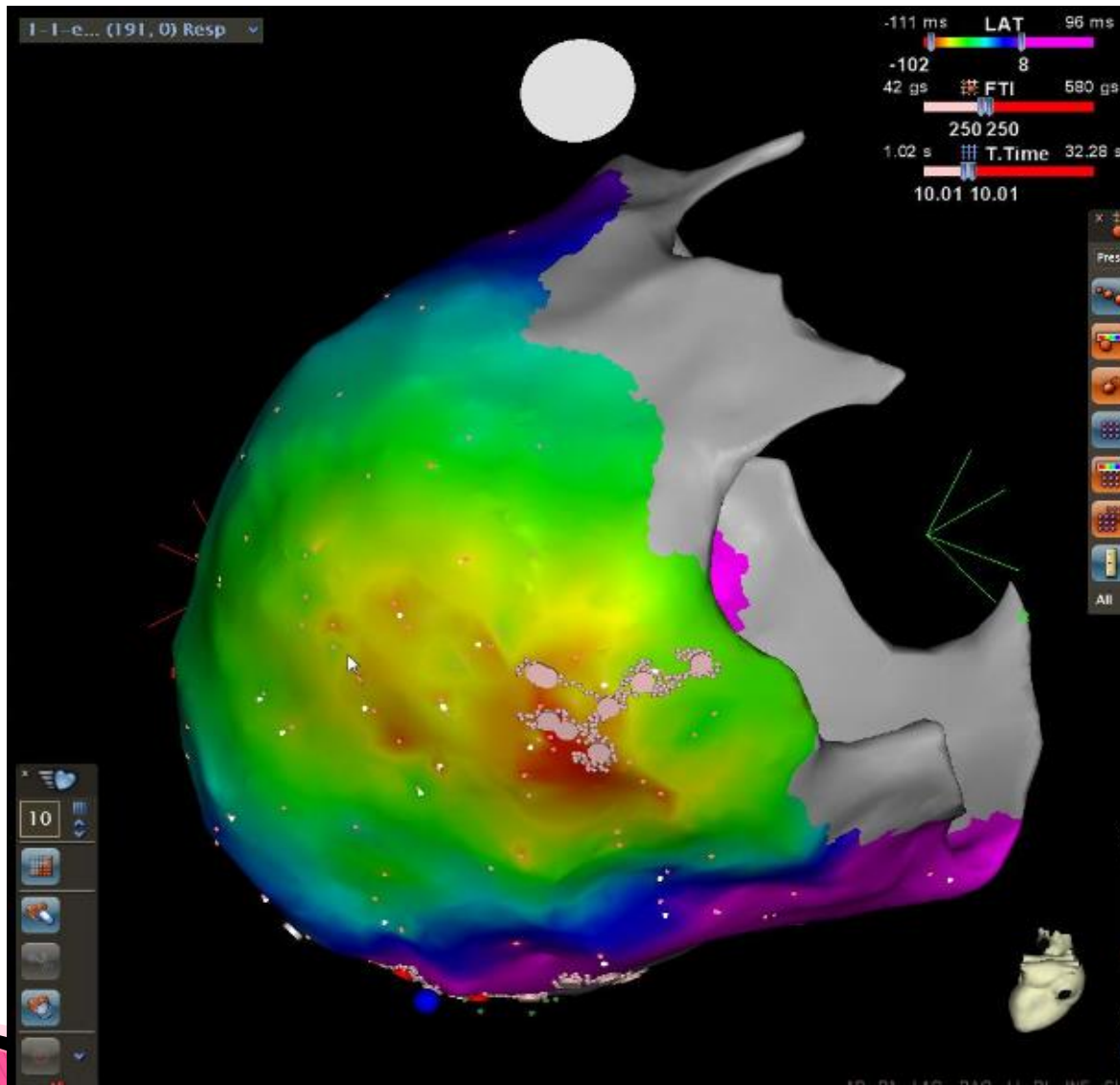
RV substrate-approach ablation



Ventricular pacing ...



LV epicardial mapping (1)

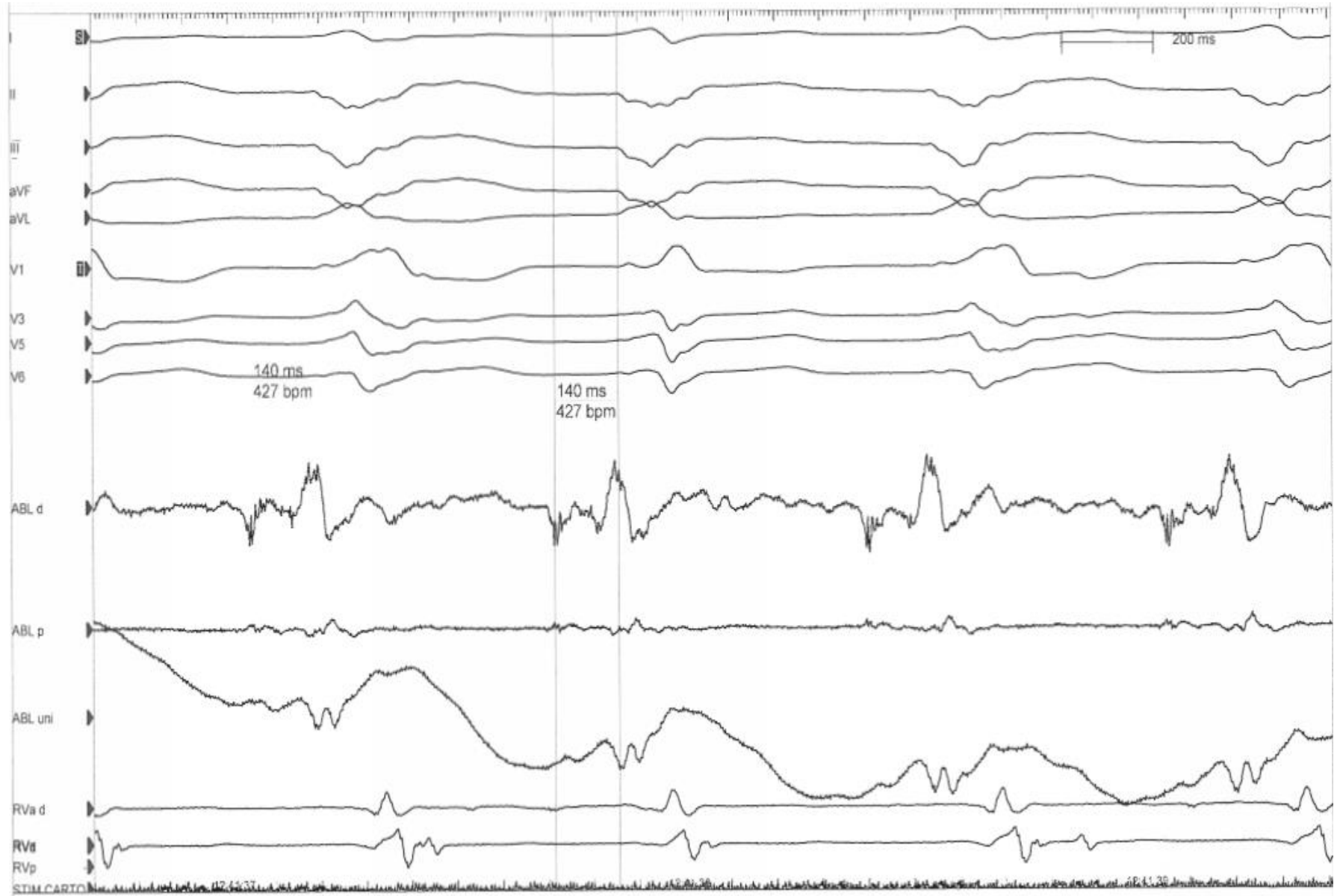


BUT...

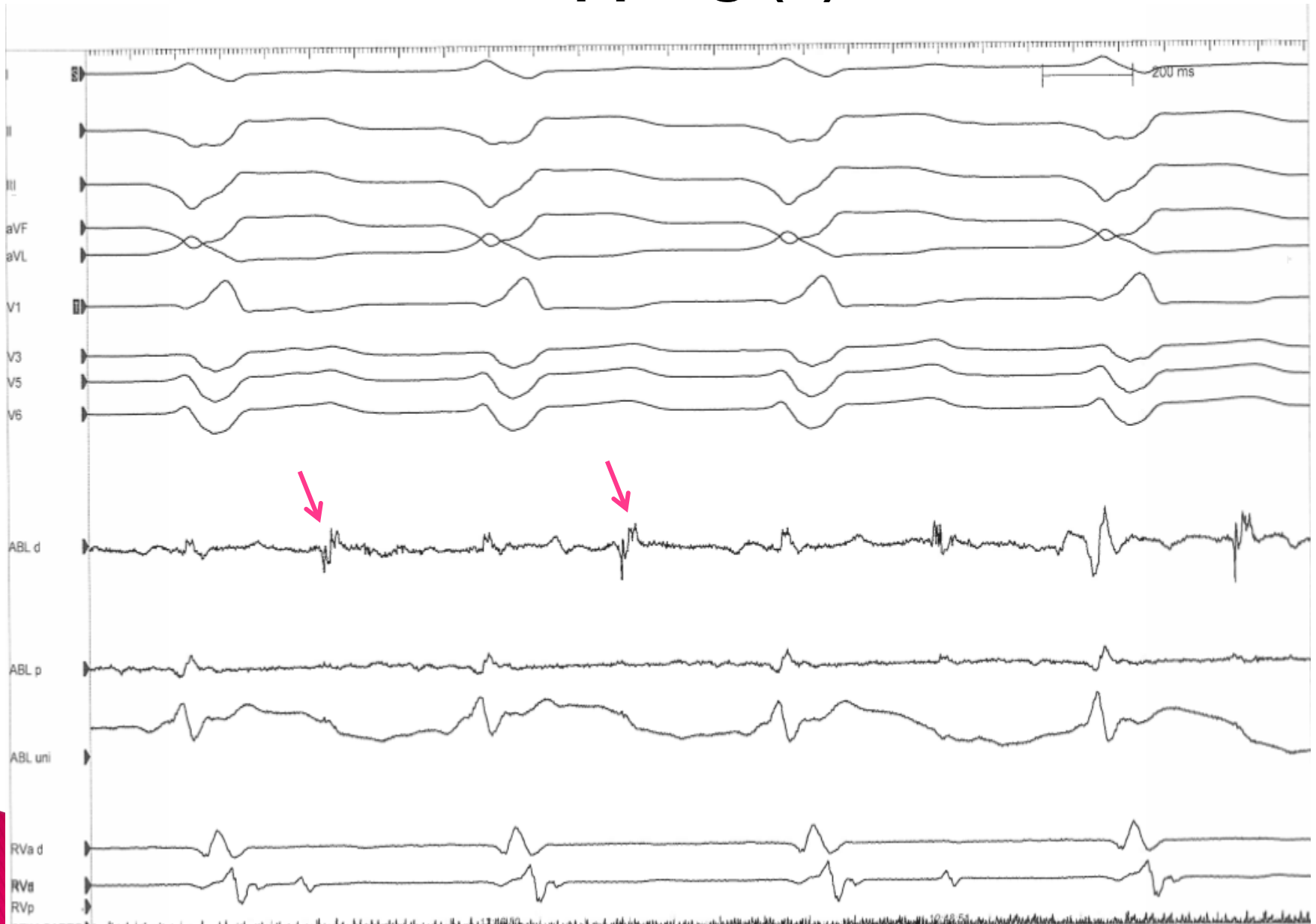
LV endocardial mapping (1)



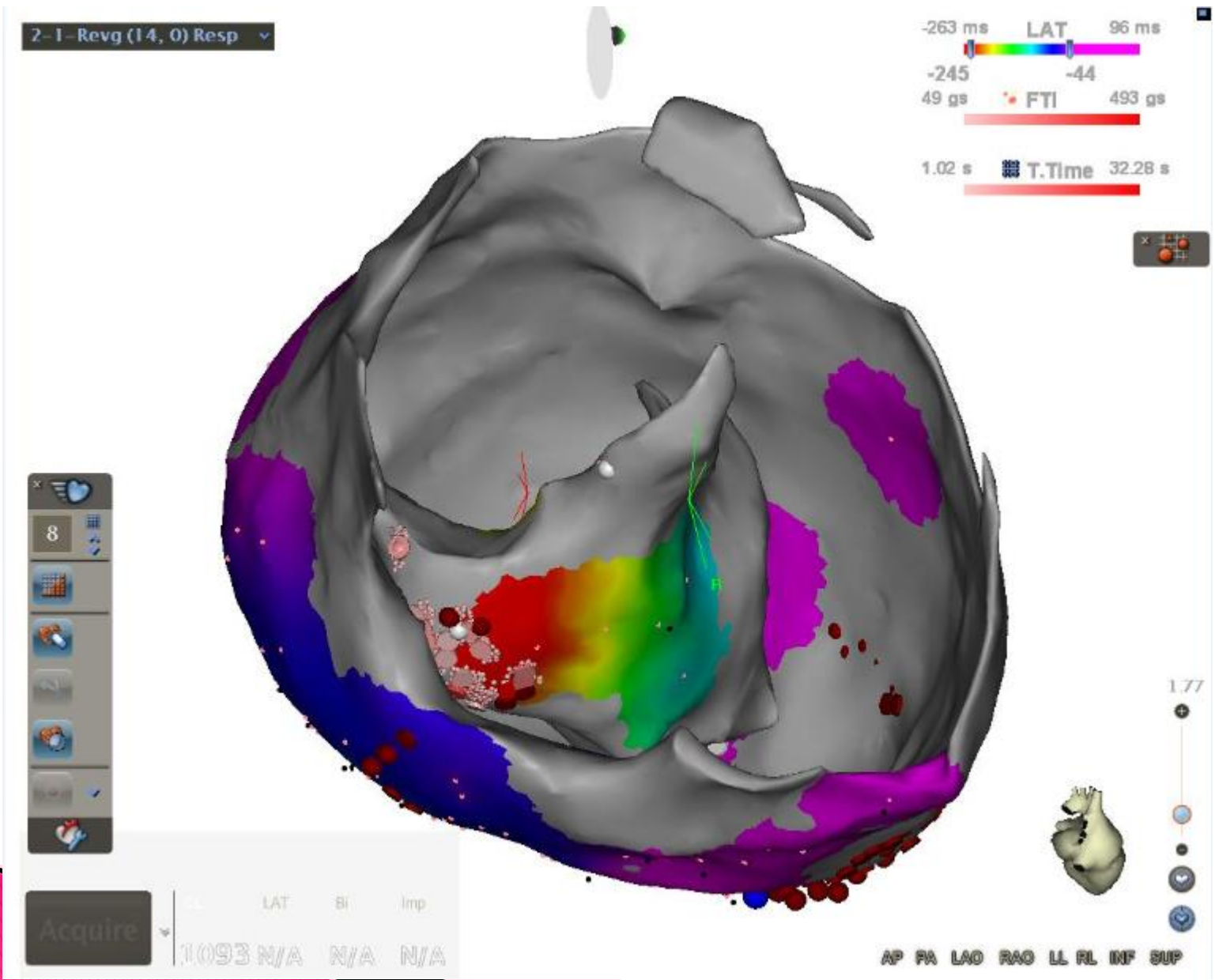
LV endocardial mapping (1)



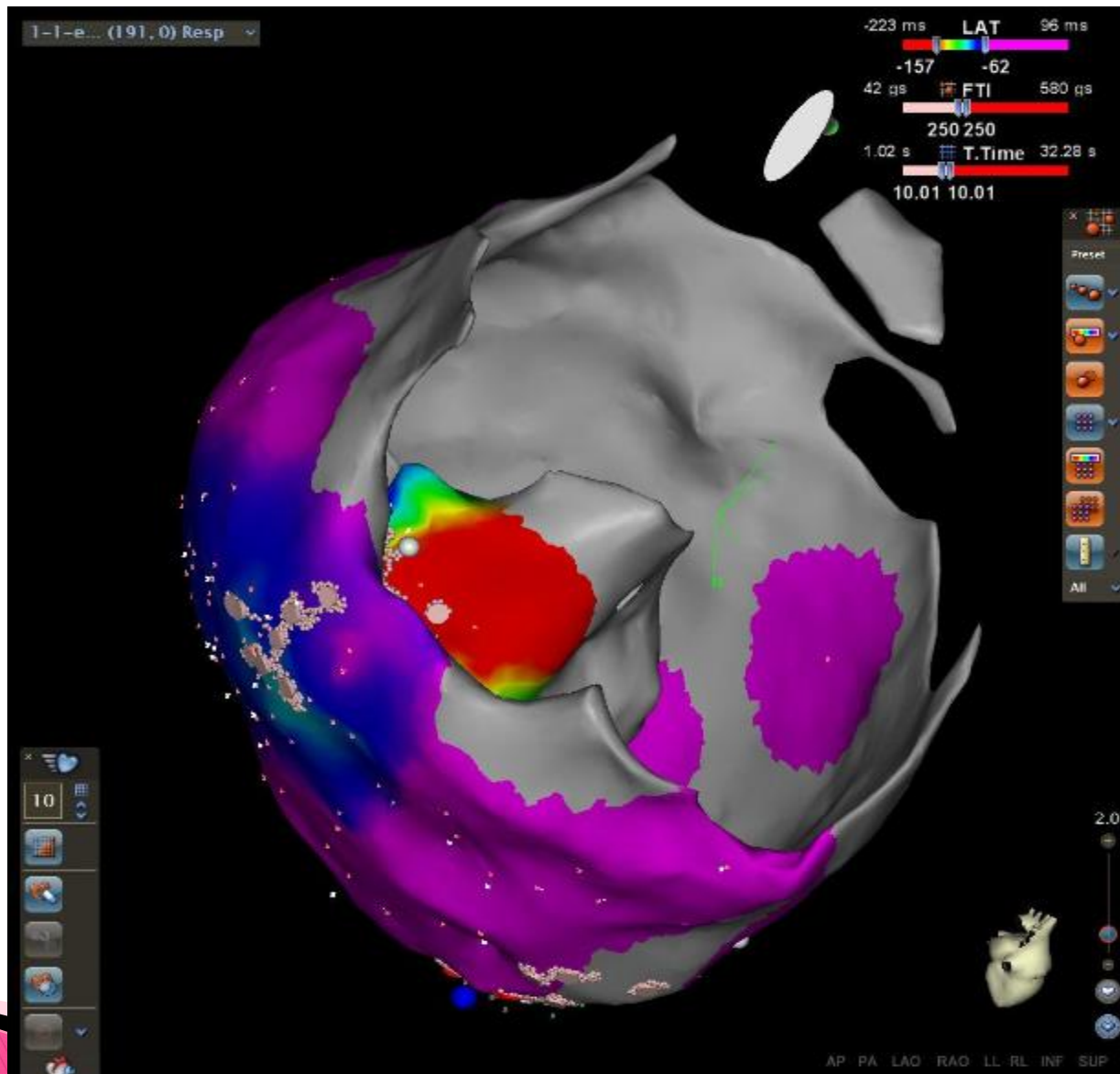
LV endocardial mapping (1)



LV endocardial ablation (1)



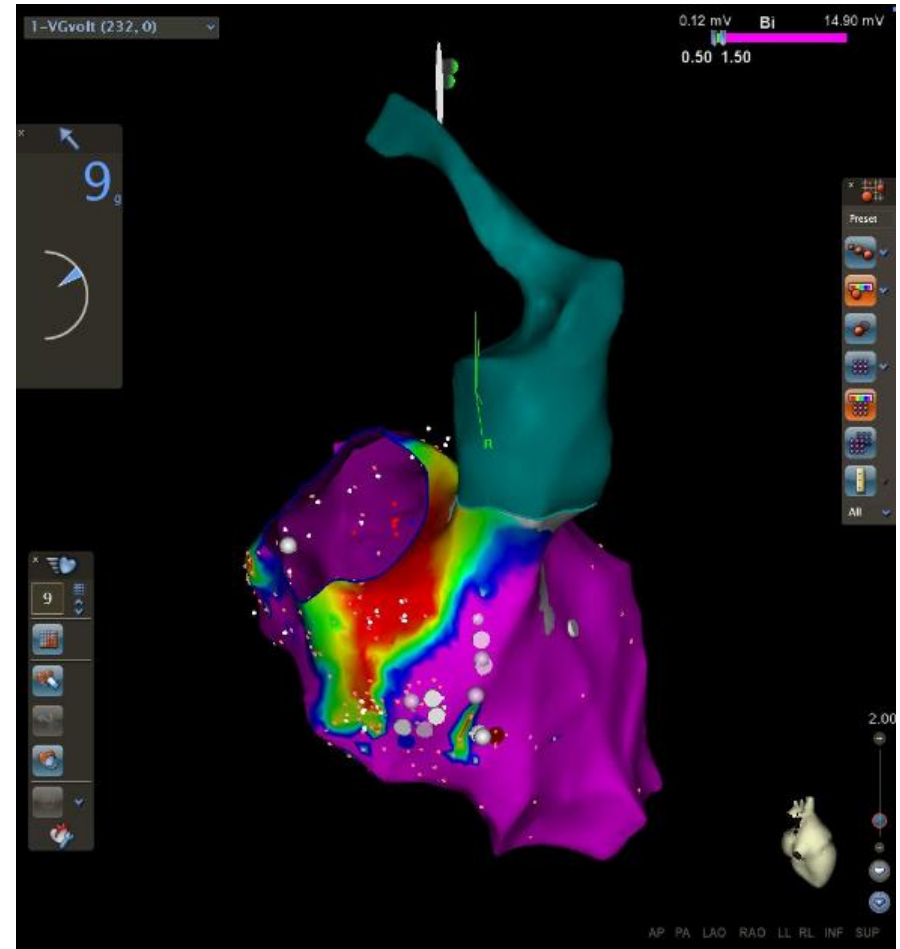
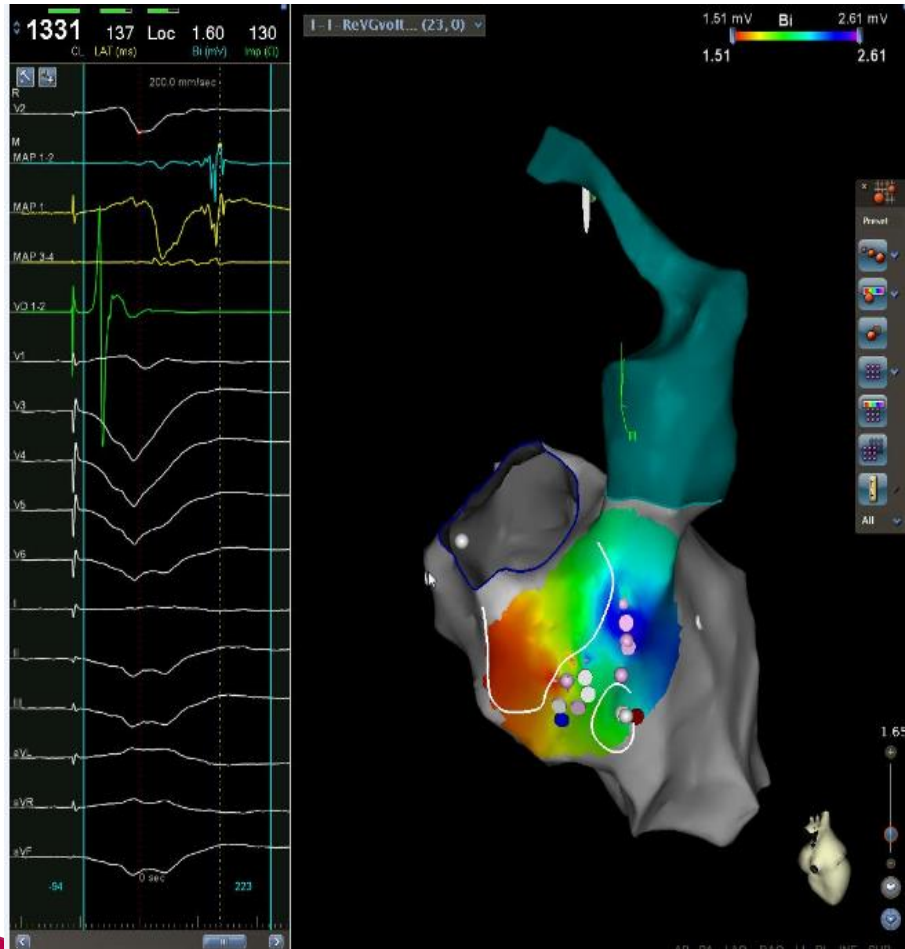
Endo-epicardial localization of VT



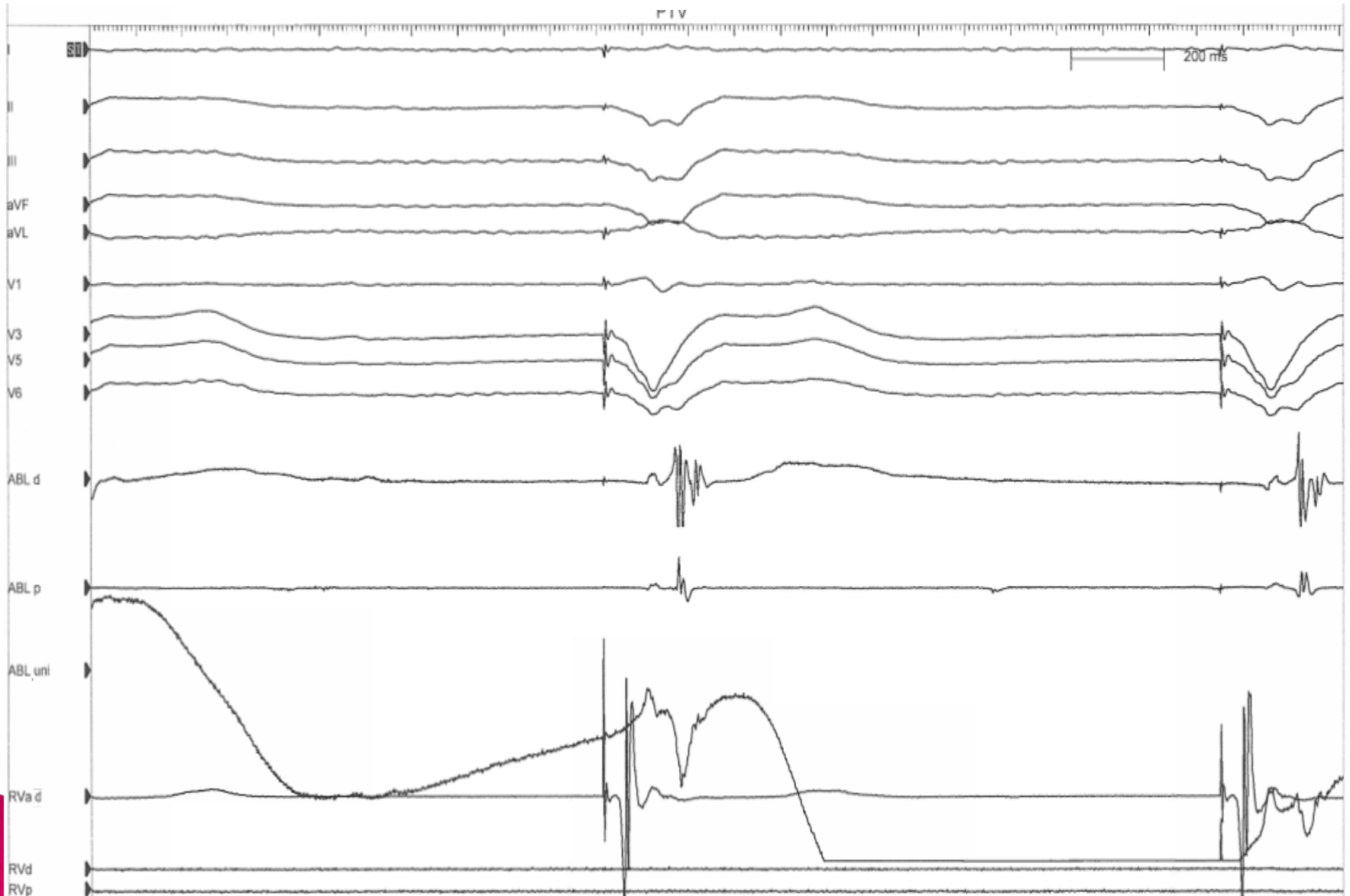
Case report

- ▶ 5 days Later
- ▶ Recurrence of the first clinical VT

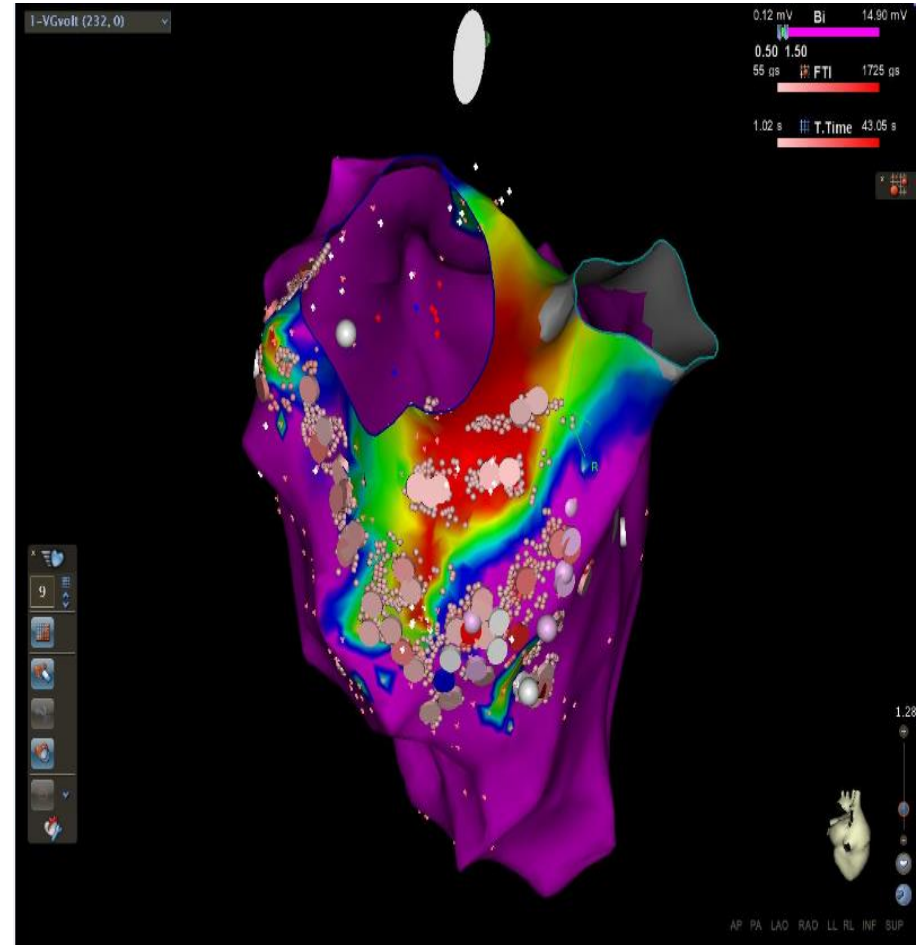
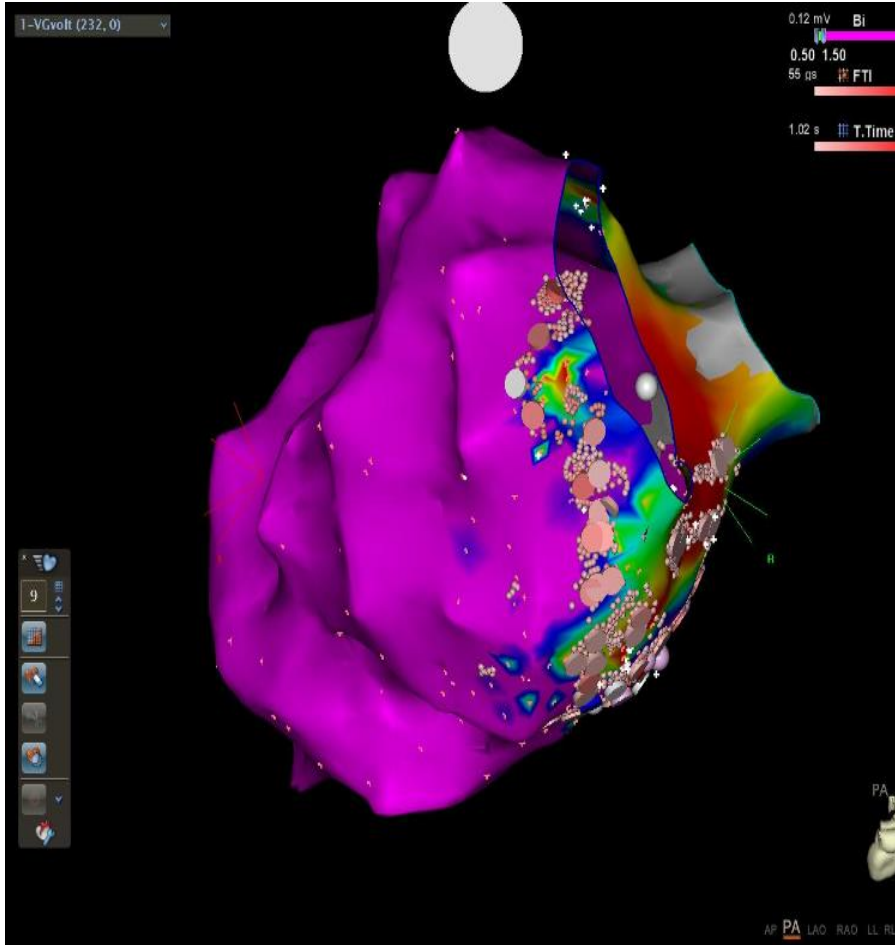
LV endocardial mapping (2)



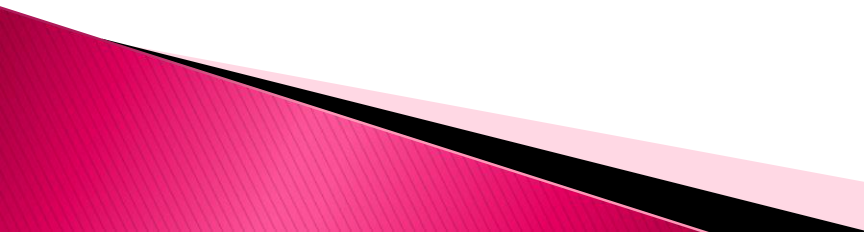
LV endocardial mapping (2)



LV endocardial ablation (2)



Conclusion (1)

- ▶ Epicardial ablation of VT : High-volume centers
 - ▶ Technical considerations :
 - Pericardial access : difficult, Previous cardiac surgery, pericardial adhesions...
 - Complications : Hemopericardium, Coronary artery damage, phrenic nerve injury, pericarditis
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Conclusion (2)

- ▶ VT ablation success rates : 53 – 67 %
- ▶ Epicardial VT ablation :
 - Essential technique for VT ablation
 - Non ischemic dilated cardiomyopathy +++
- ▶ First line approach :
 - Experience of the electrophysiologist
 - ECG : Epicardial VT



**Thank you for your
Attention**