



IX Congresso
Novas Fronteiras
em Medicina
Cardiovascular

22 a 24 de Fevereiro 2019

The Village Praia
D'El Rey - Óbidos



Unidade de Arritmologia Invasiva
Hospital de Santa Maria (CHLN)

Ablação de Taquicardia Ventricular associada a Cardiopatia

À procura da melhor resposta



- Male, 79-yo
- 2007: Anterior myocardial infarction; 1-vessel CAD (proximal LAD) >> PCI
EcoCG: Apical aneurysm; LVEF: ≈30-35%
- 2009: ICD implantation: primary prevention
Atrial fibrillation
- 2018: Acute heart failure decompensation
Slow VT (100-130 ppm), almost incessant
VT morphology: left superior axis; QS pattern in all the precordial leads
Recurrent episodes refractory to ATP, amiodarone and lidocaine

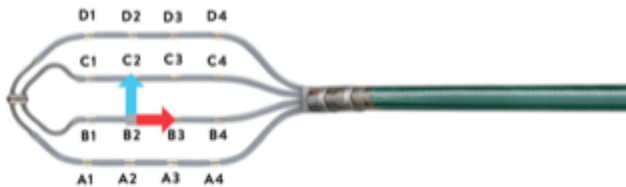
Acesso: Trans-septal



•Ablação de TV “live in the box”

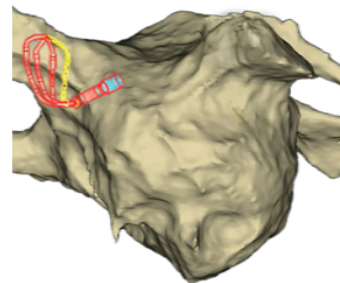
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HD Grid B2-C2 (66) (1.496 ± 0.00)

HD Grid B2-B3 (66) (0.416 ± 0.00)



Pentaray

20 electrodos
0.8 mm² por electrodos
Espaçamento inter-electrodos: 2mm



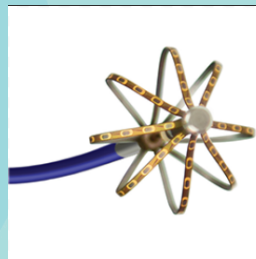
Lasso

20 electrodos
1.2mm² por electrodos
Espaçamento inter-electrodos: 2mm



Decanav

10 electrodos
Electrodos com 1mm
Espaçamento inter-electrodos: 2mm

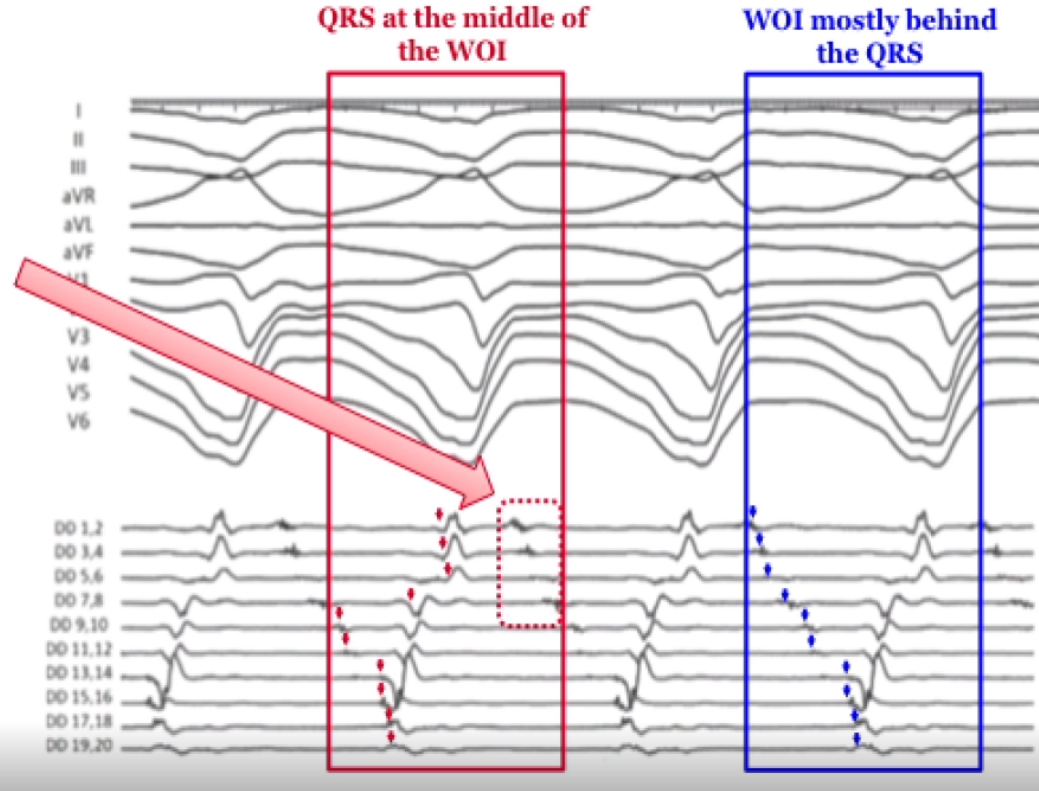


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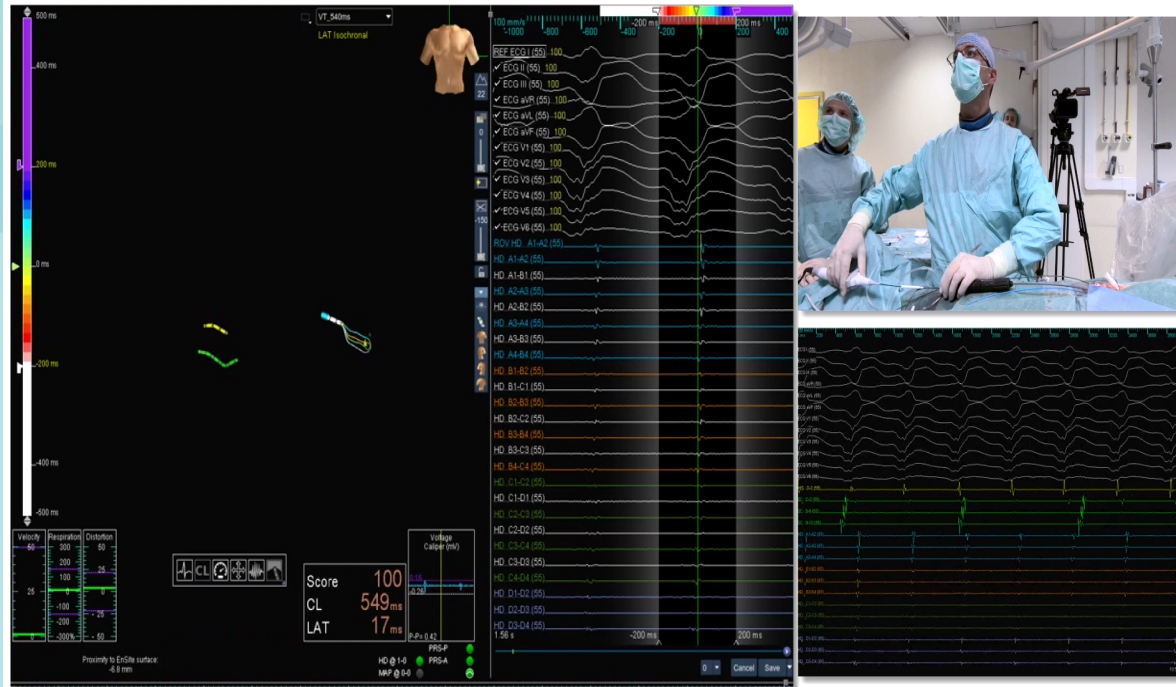
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Window of Interest for VT Activation Mapping

iEGM occurring next to the QRS tend to be wrongly annotated if you combine automatic annotation by the “**First deflection**” with the “**usual WOI**” (QRS in the middle)



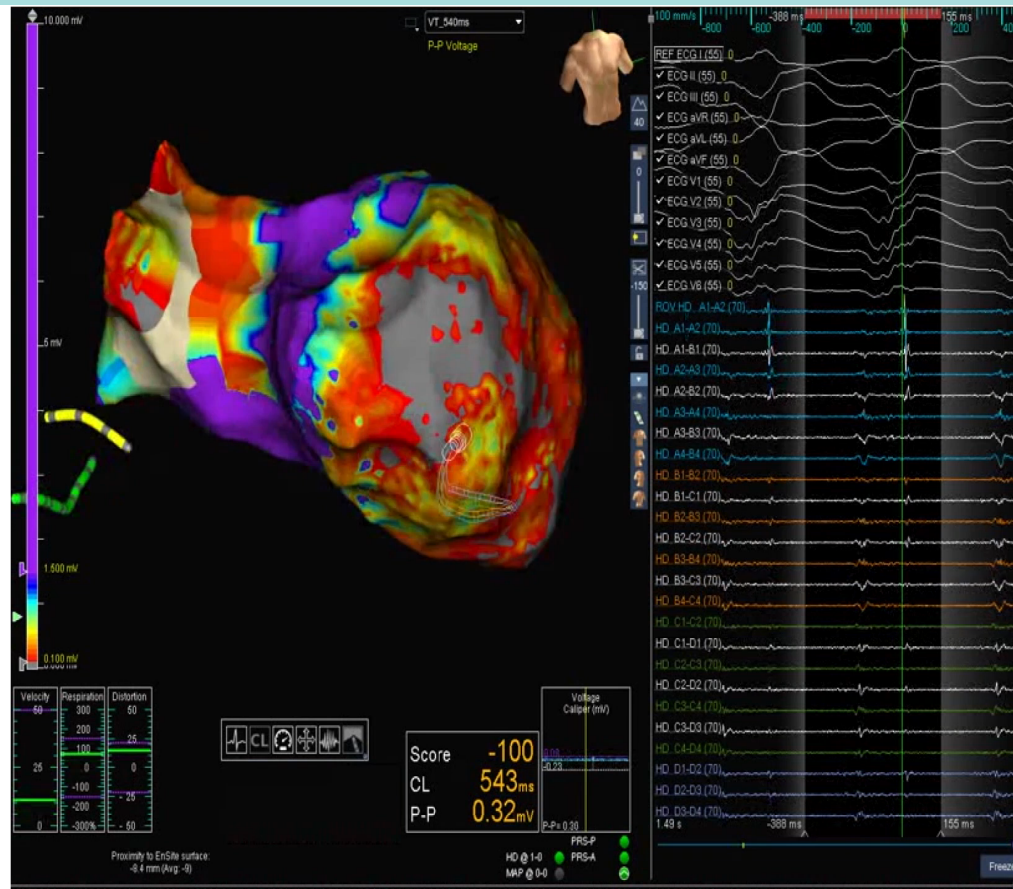
Maapeamento



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Voltagem



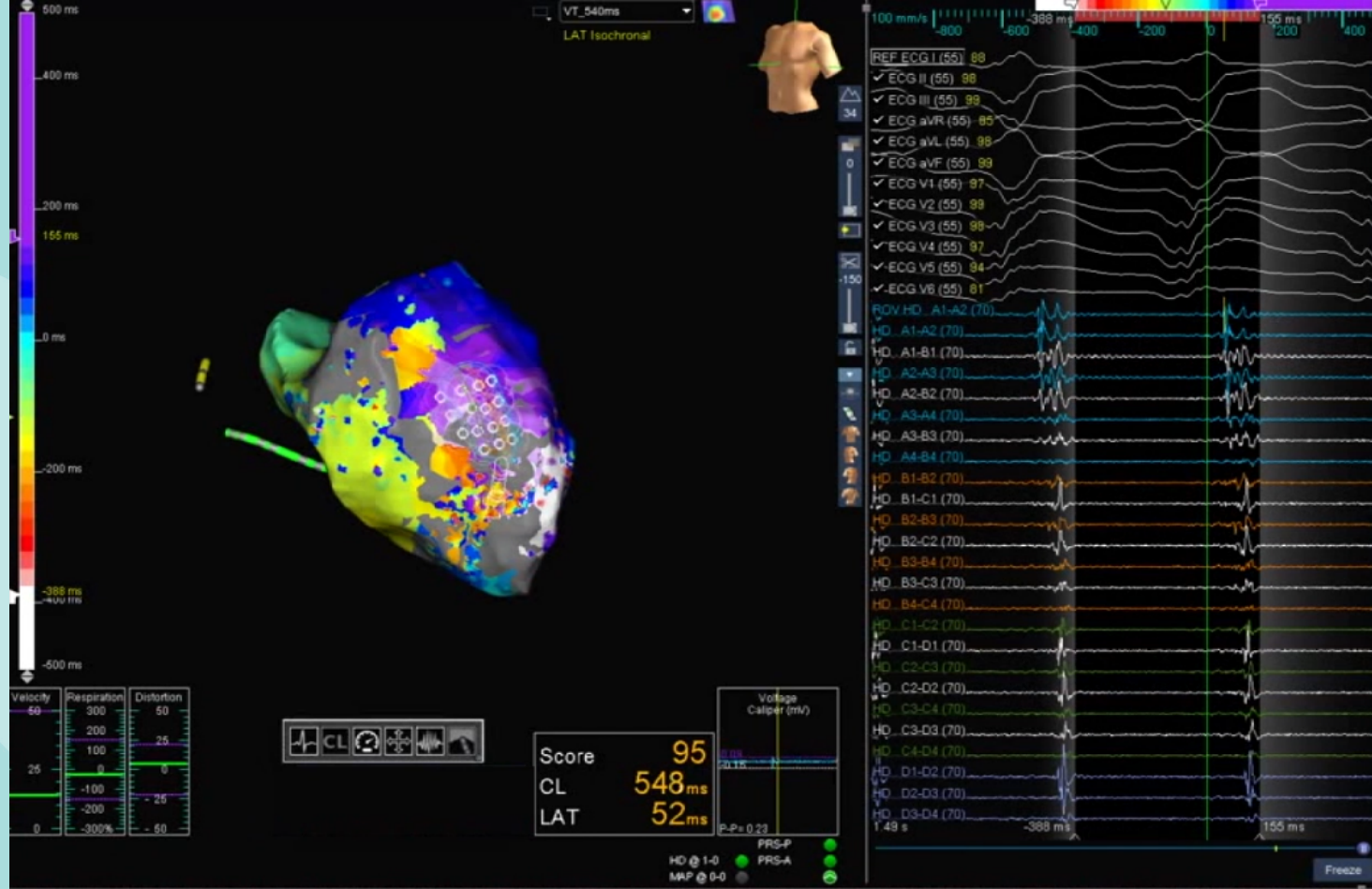
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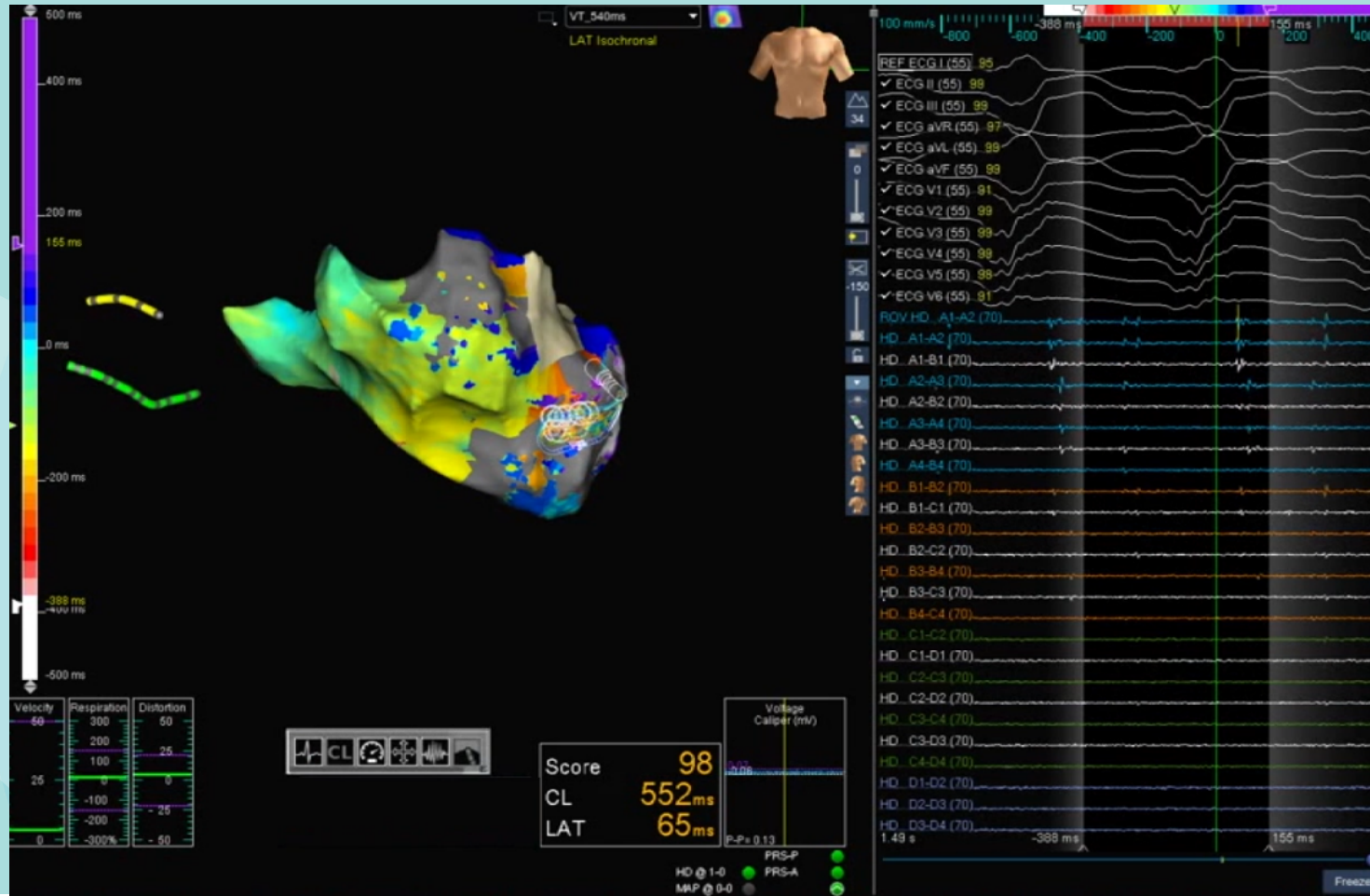
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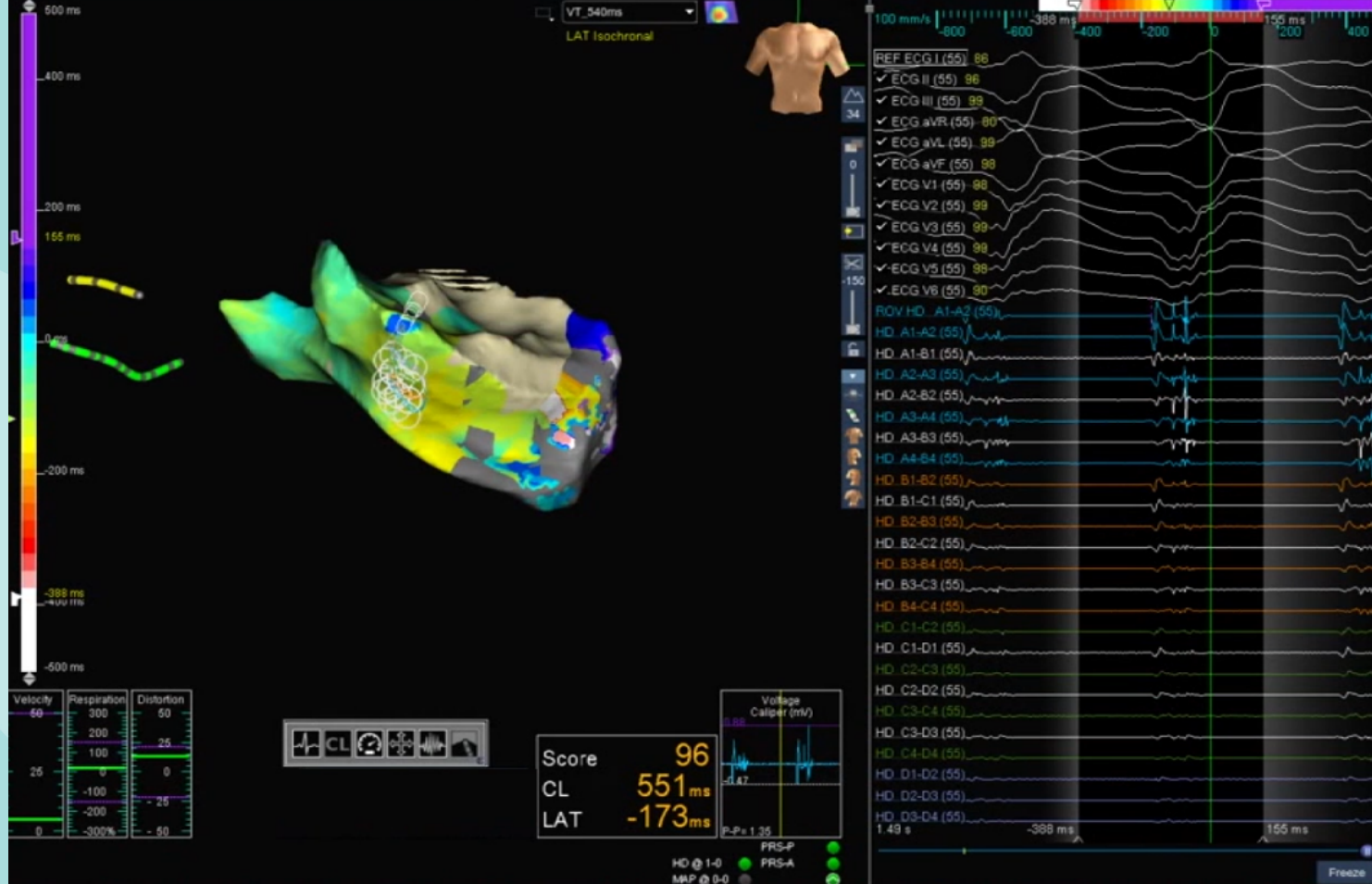
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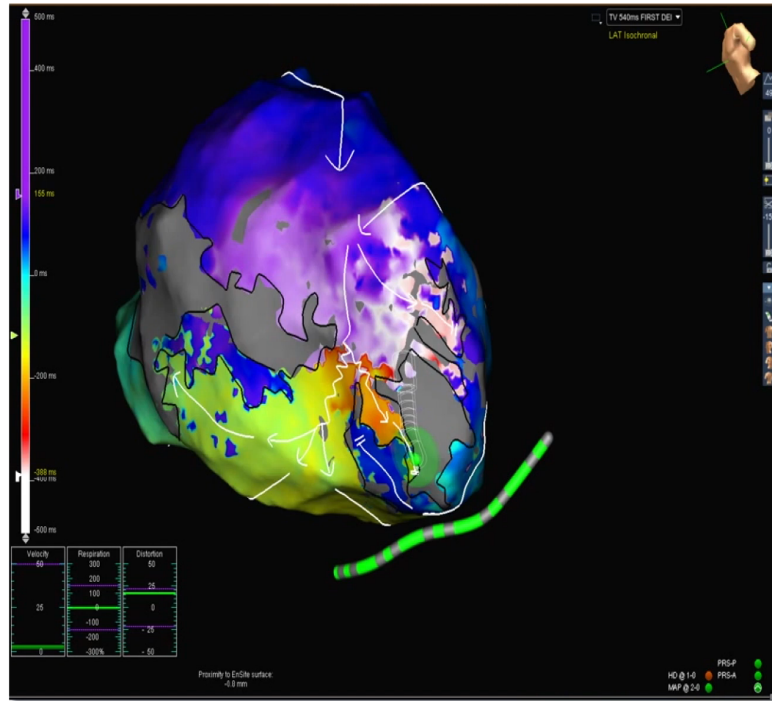
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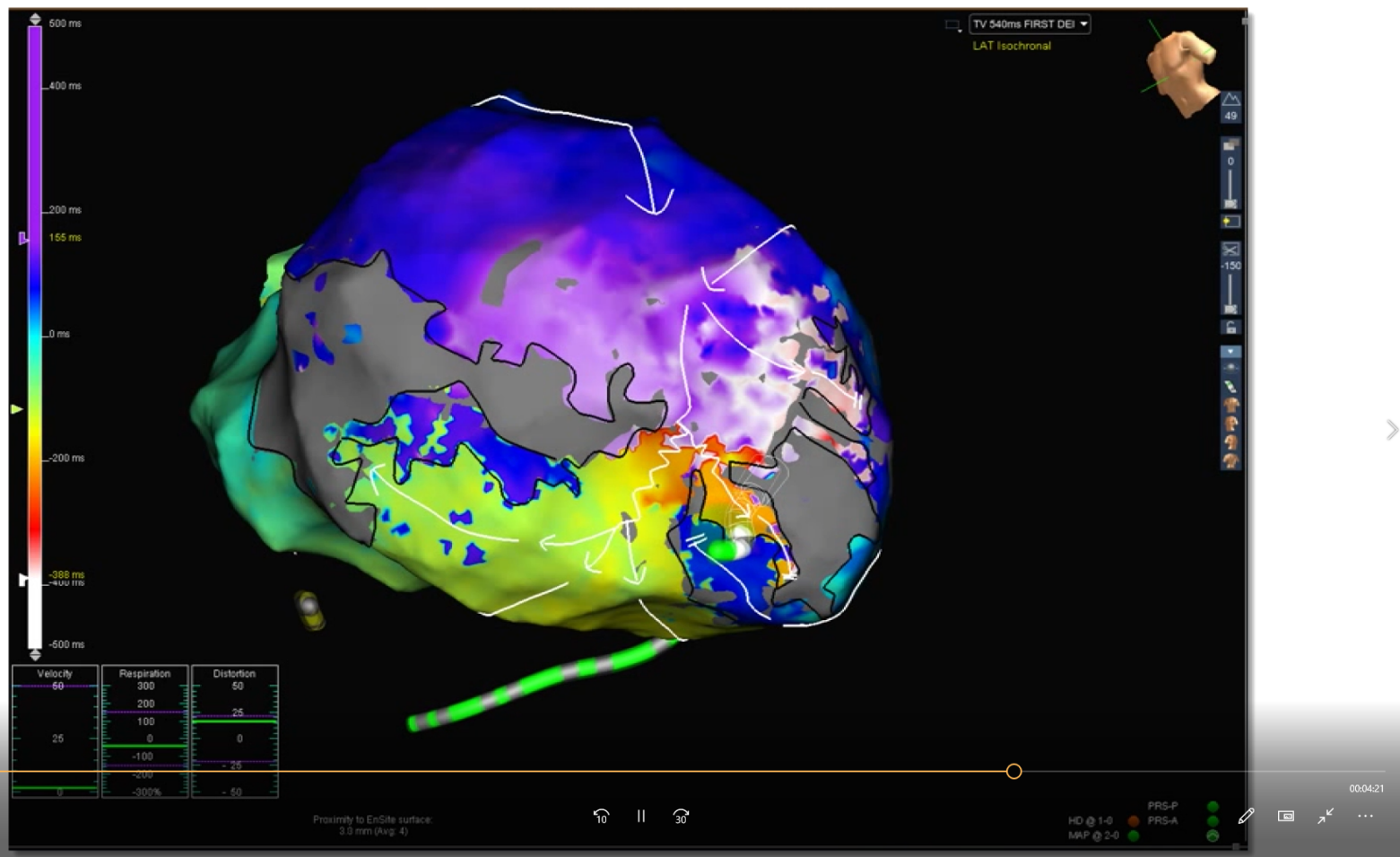
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Activação Propagação



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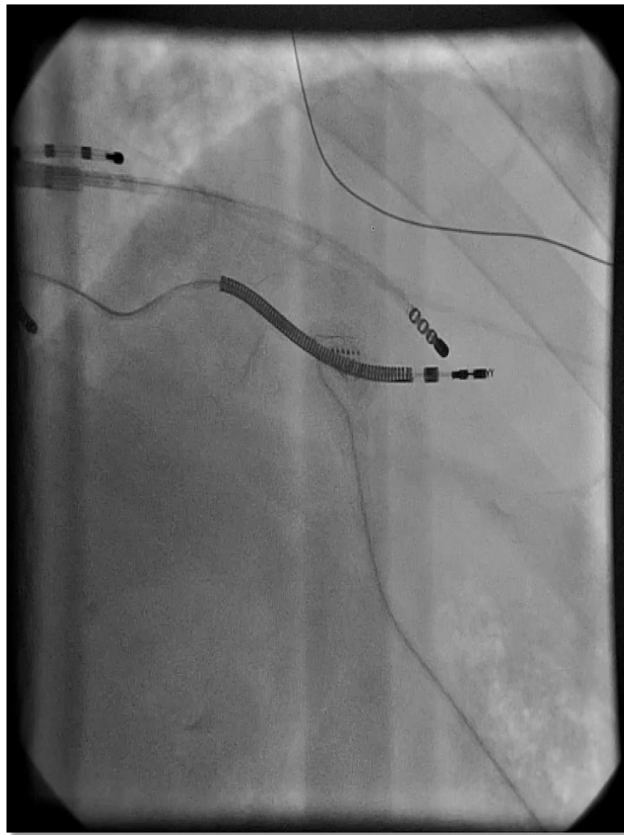
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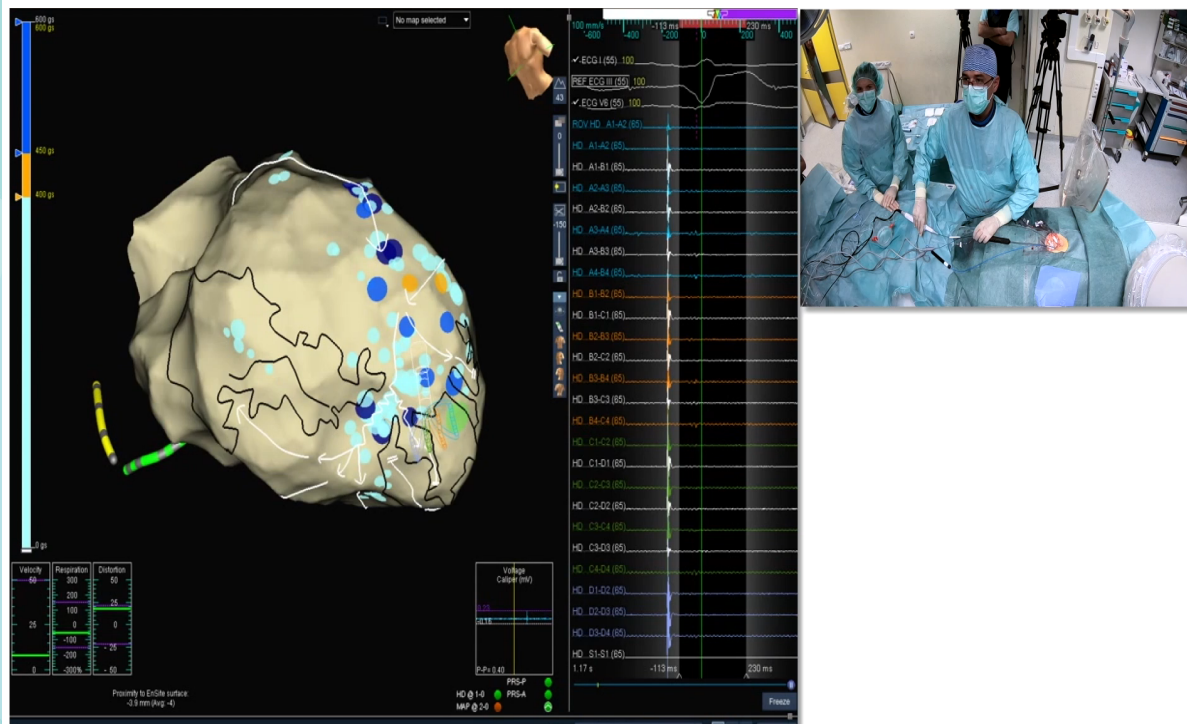
Ablação



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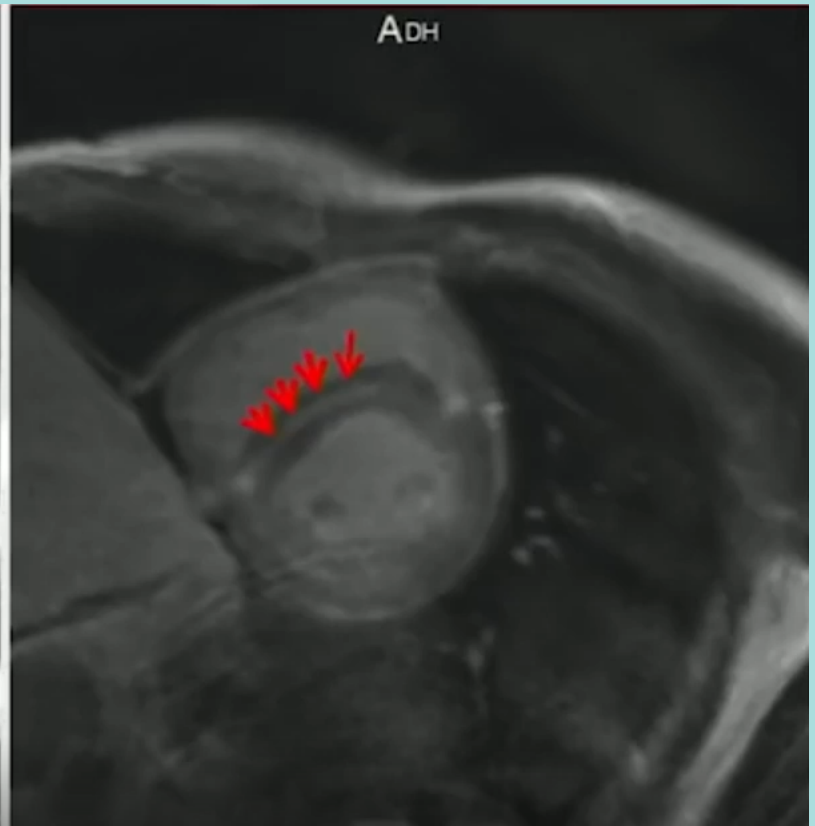
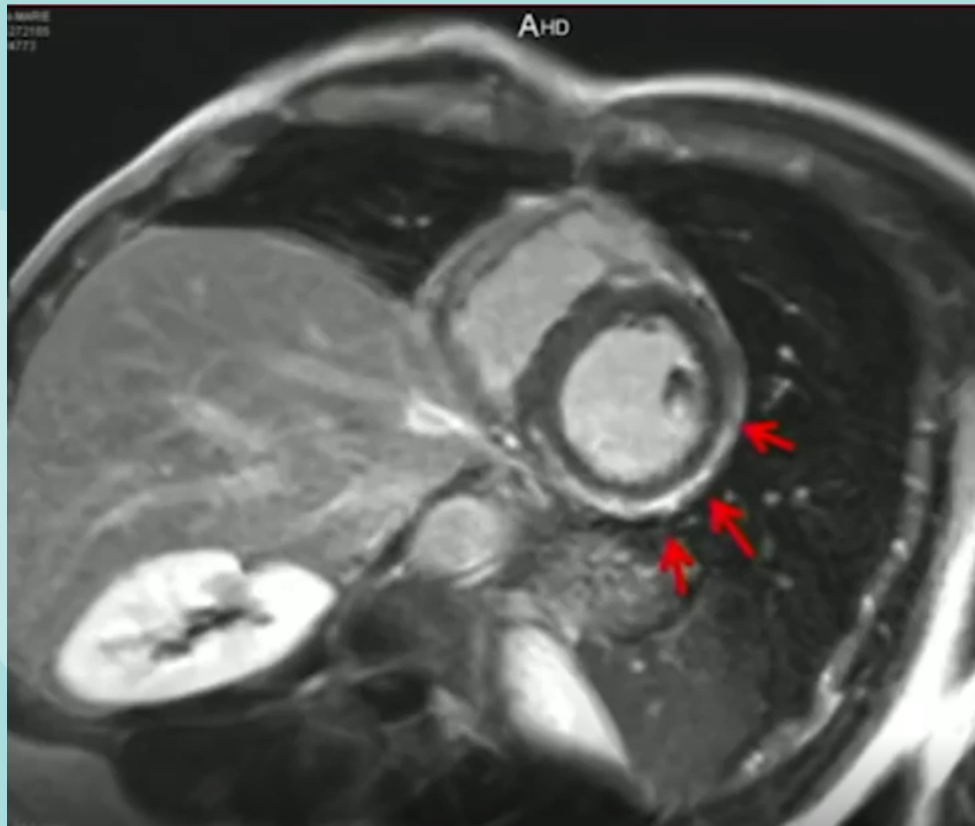
Eliminação LAVA Remapeamento



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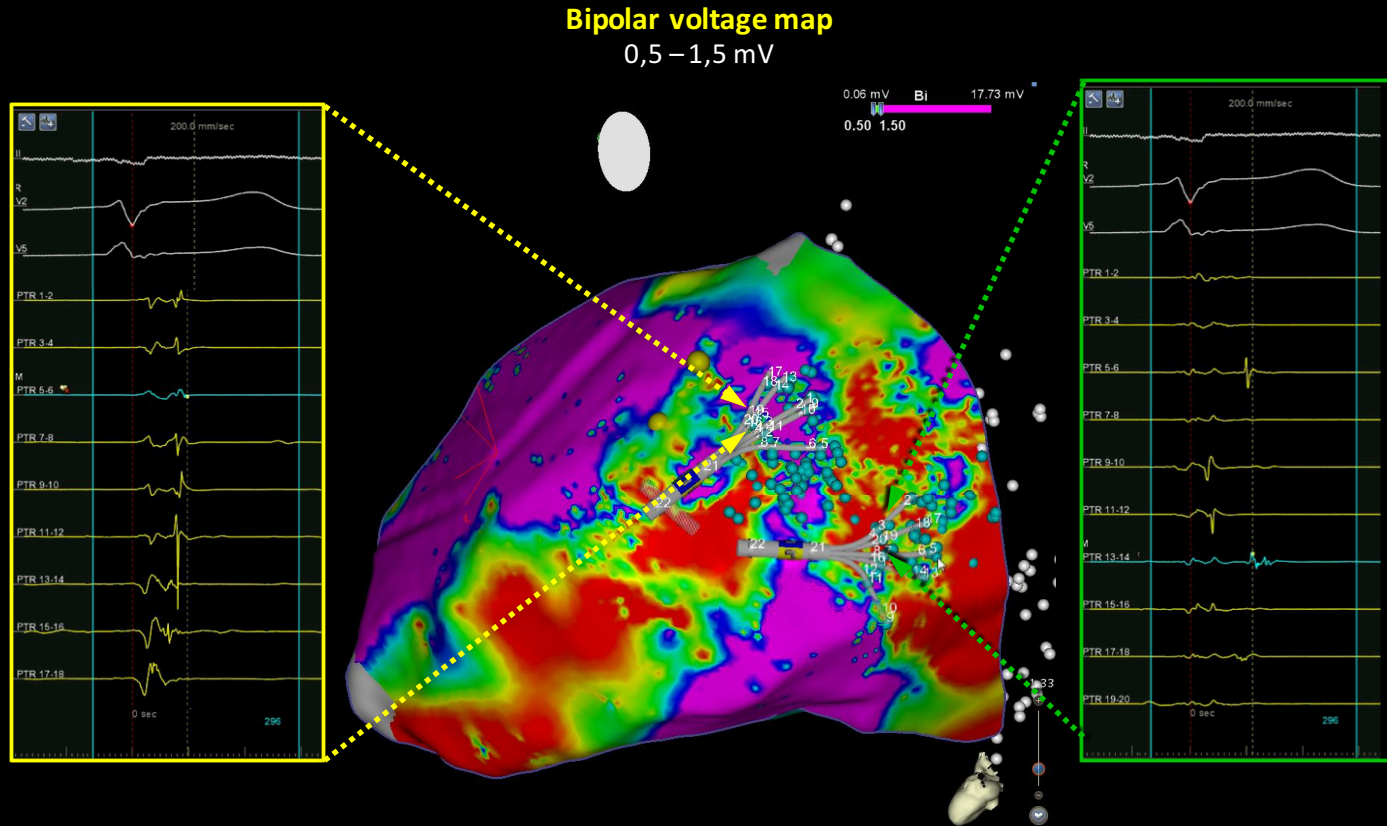
- Etiologia
- Topografia: definição de área de interesse, substrato
 - Imagem: ICE, RMN, TAC
 - TV Clínica
- Inducibilidade
 - Pré-sedação / anestesia?
 - Múltiplas morfologias / circuitos?
 - Exclusão de BBR
 - Tolerabilidade hemodinâmica
 - Mapeamento em TV (Activação / Circuito)
 - Mapeamento de substrato
- Etiologia + Topografia + ECG + Mapeamento Bipolar / Unipolar
 - Intervenção Endocárdica / Epicárdica / SEPTAL



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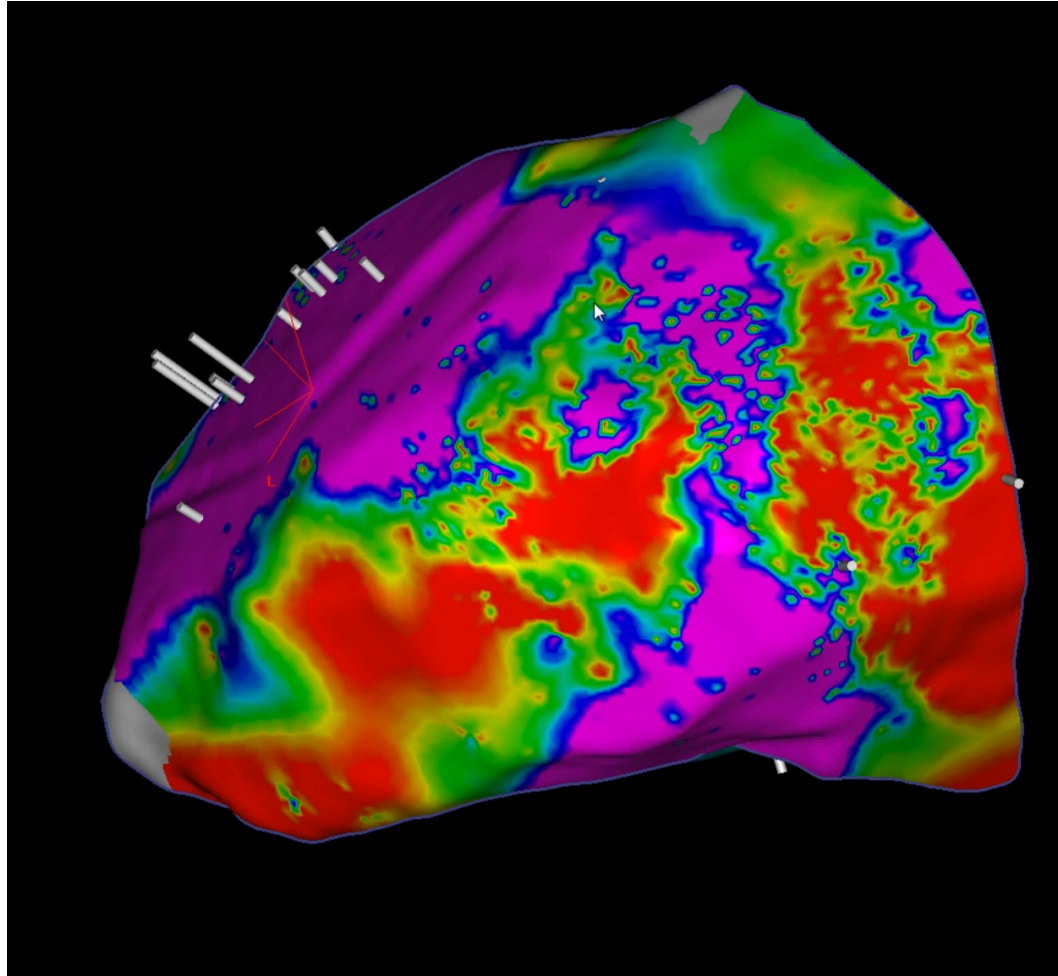
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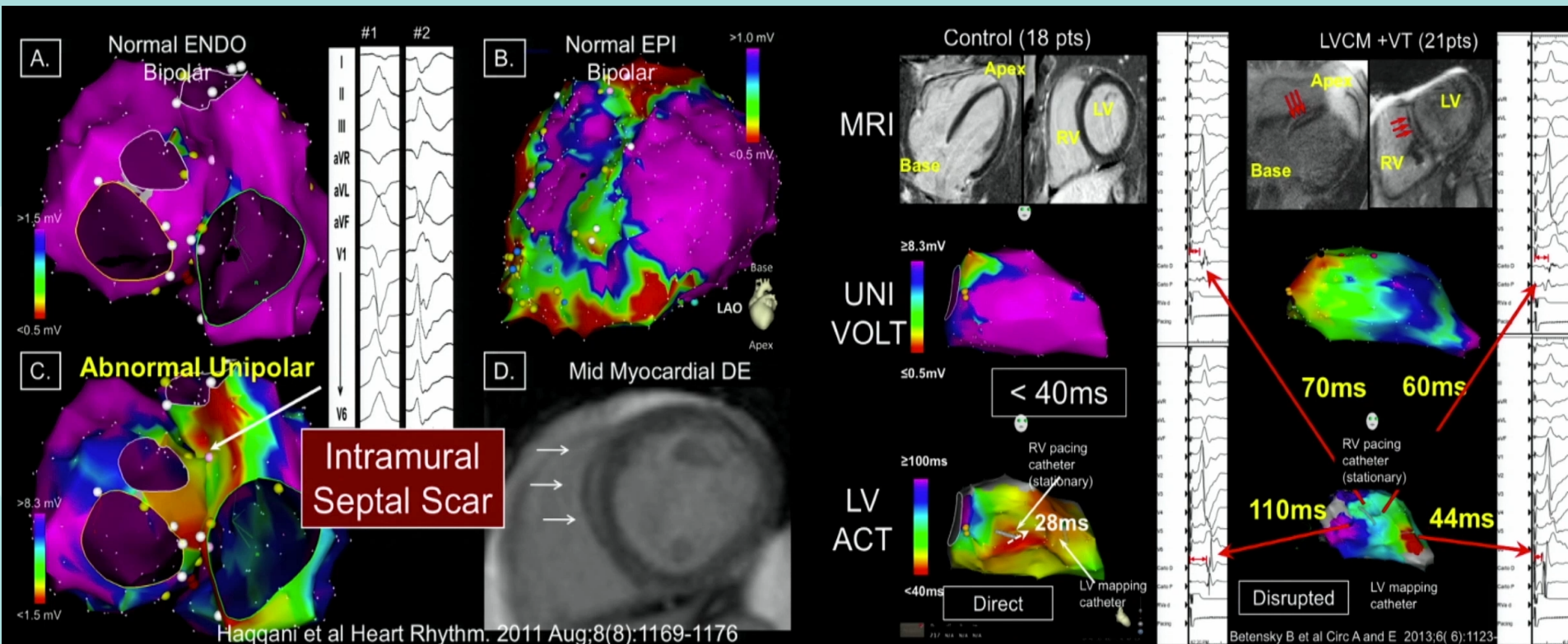
EPICARDIAL MAPS



- **Abnormal bipolar electrograms**, with fractionated and delayed components
- Most delayed activation inside the low-voltage area at the basal lateral wall

Blue dots are depicting manually annotated LAVAs





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