

ABLAZIONE TRANSCATETERE DELLE TACHICARDIE VENTRICOLARI: STRATEGIE DI TRATTAMENTO

DR VALENTINO DUCCESCHI

OSPEDALE DEI PELLEGRINI – NAPOLI

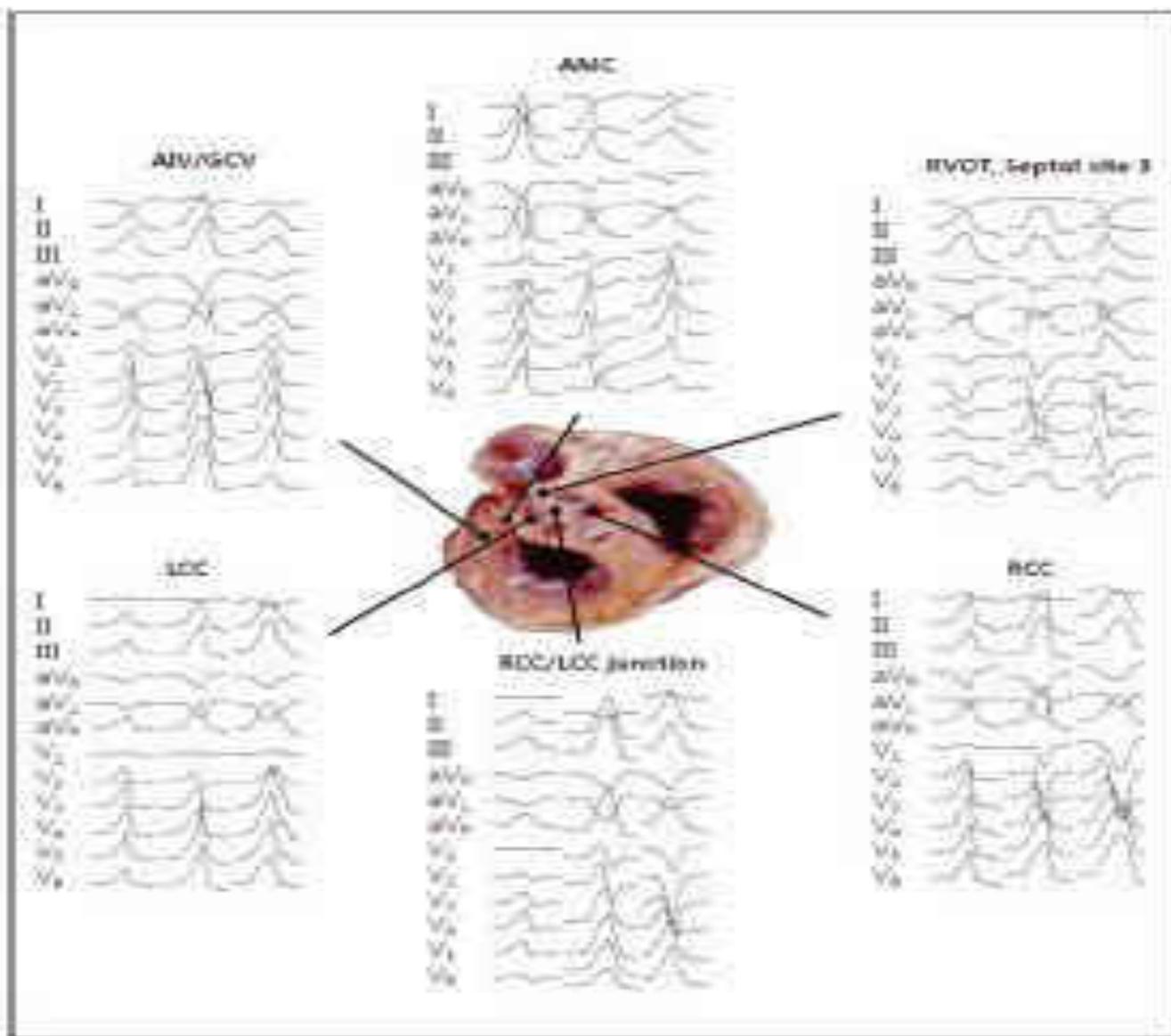
1 OTTOBRE 2021

- MECCANISMI PATOGENETICI:

- - FORME FOCALI

- - CIRCUITI DI RIENTRO

- - FORME COINVOLGENTI IL SISTEMA DI CONDUZIONE



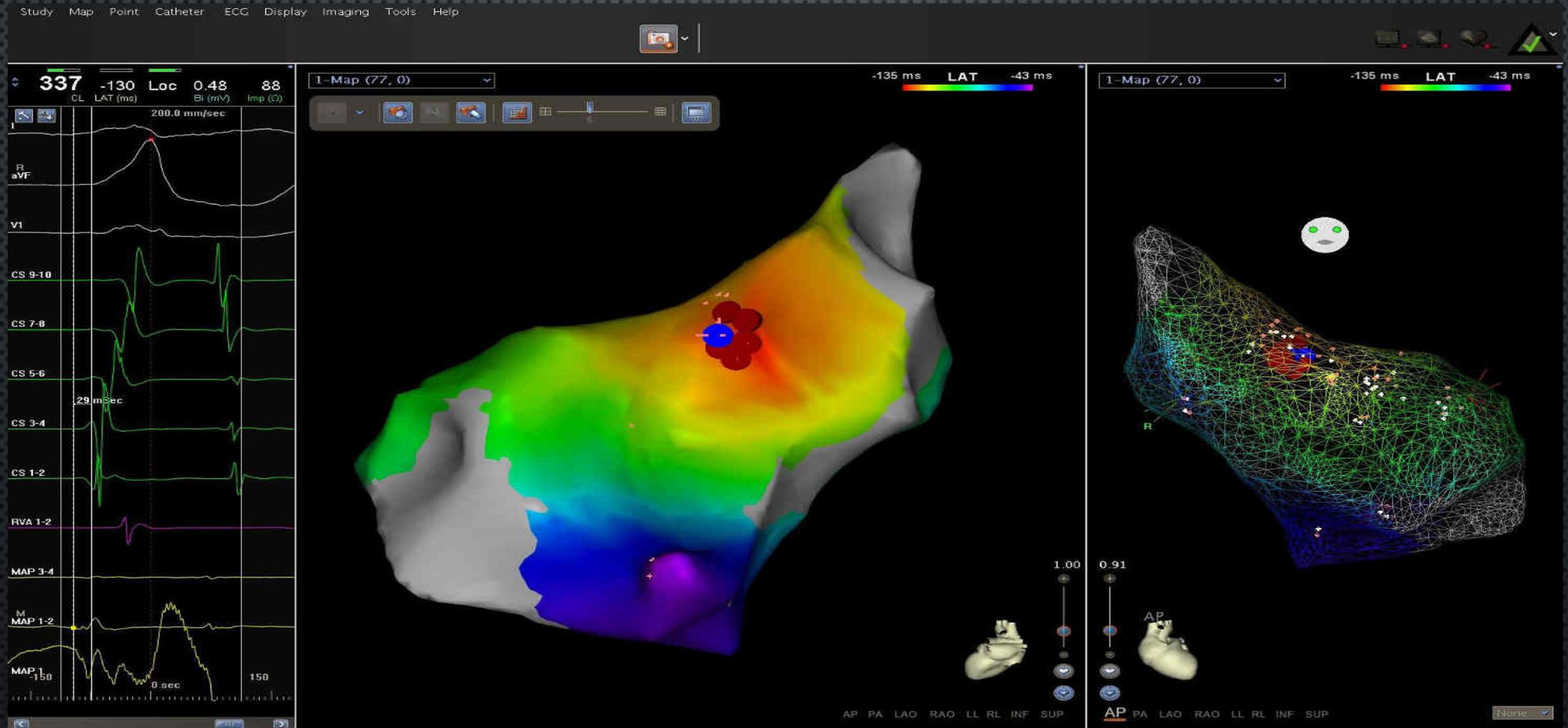
V₂ Transition Ratio formula:

$$= A / (A+B)_{VT} + C / (C+D)_{SR}$$

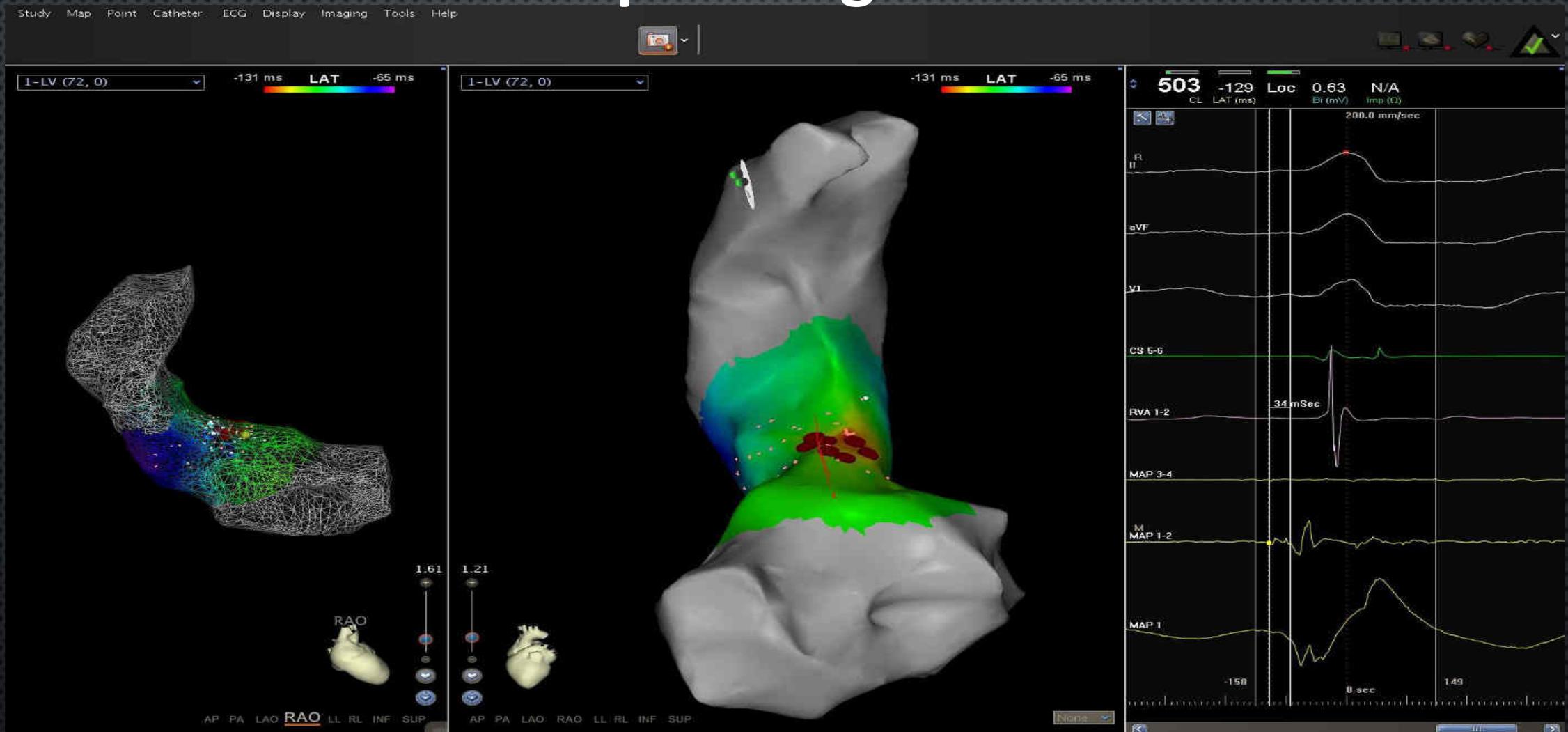
Figure 3. Electrocardiographic measurements of V₂ transition ratio. VT = ventricular tachycardia; SR = sinus rhythm.

Figure 2. Aortic sinus cusps image with corresponding examples of ECG morphology. AVV/GCV = anterior interventricular vein/great cardiac vein; AMC = aortic mitral continuity; LCC = left coronary cusp; RCC = right coronary cusp; NCC = non coronary cusp; MV = mitral valve; TV = tricuspid valve; RVOT = right ventricular outflow tract.

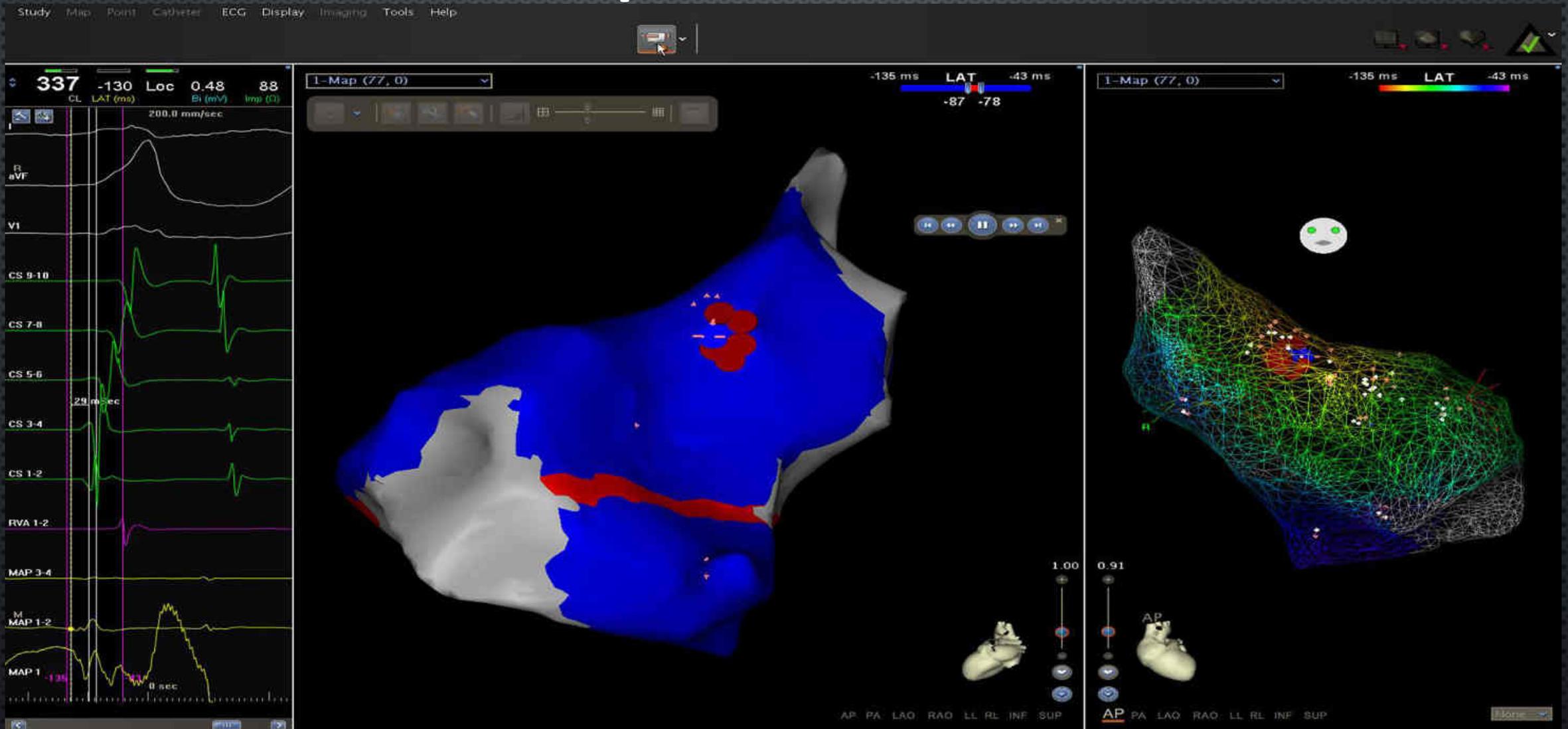
IDIOPATHIC RVOT: importance of unipolar and bipolar signals



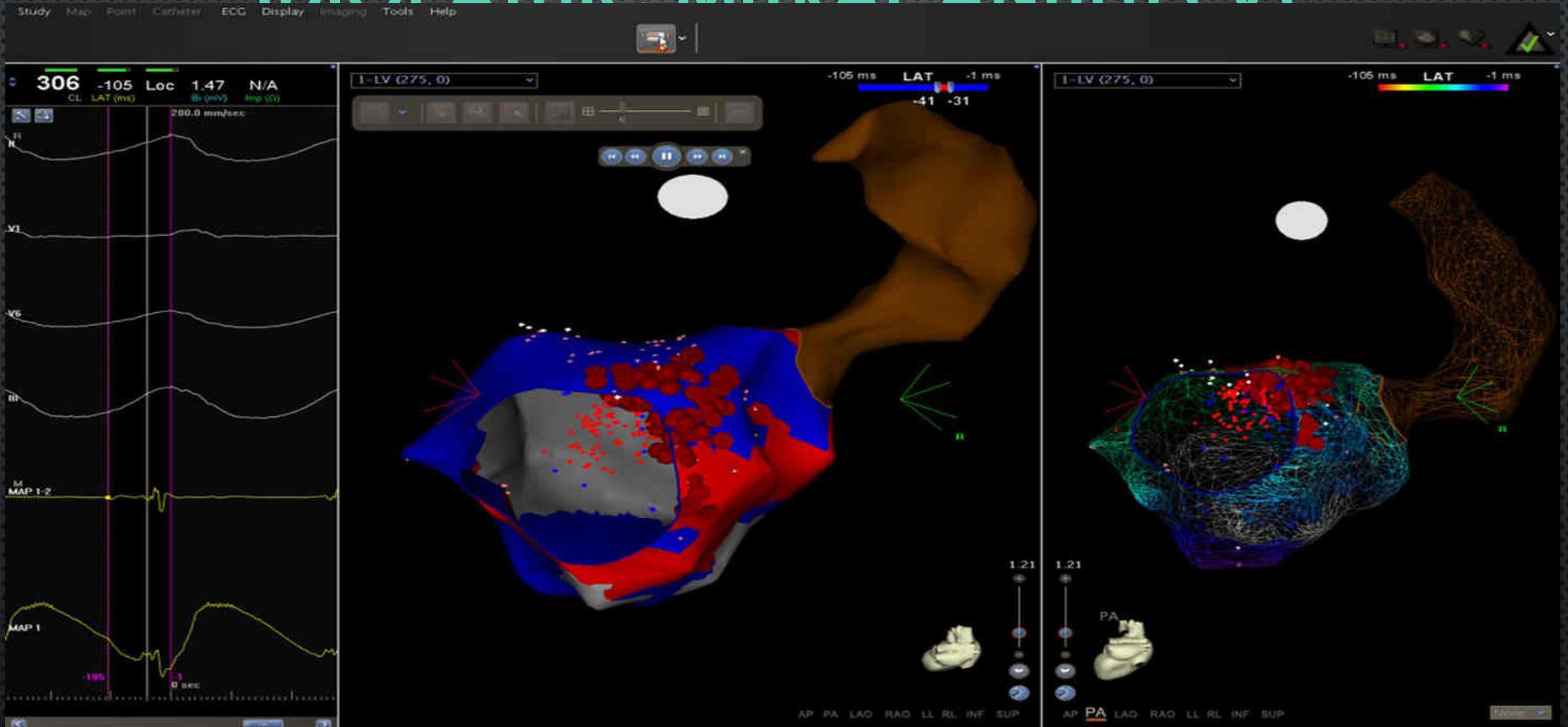
Idiopathic LVOT: importance of unipolar and bipolar signals



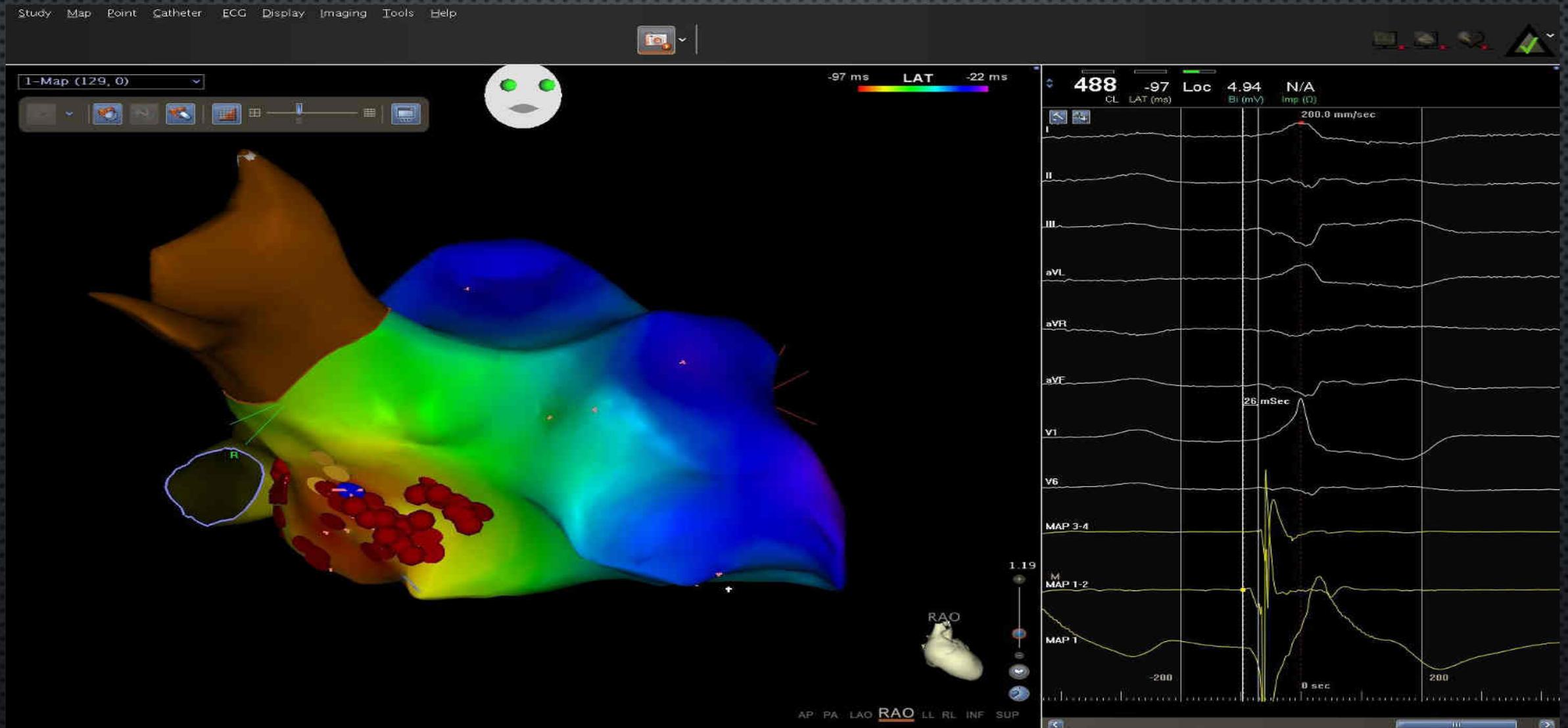
Idiopathic RVOT VT

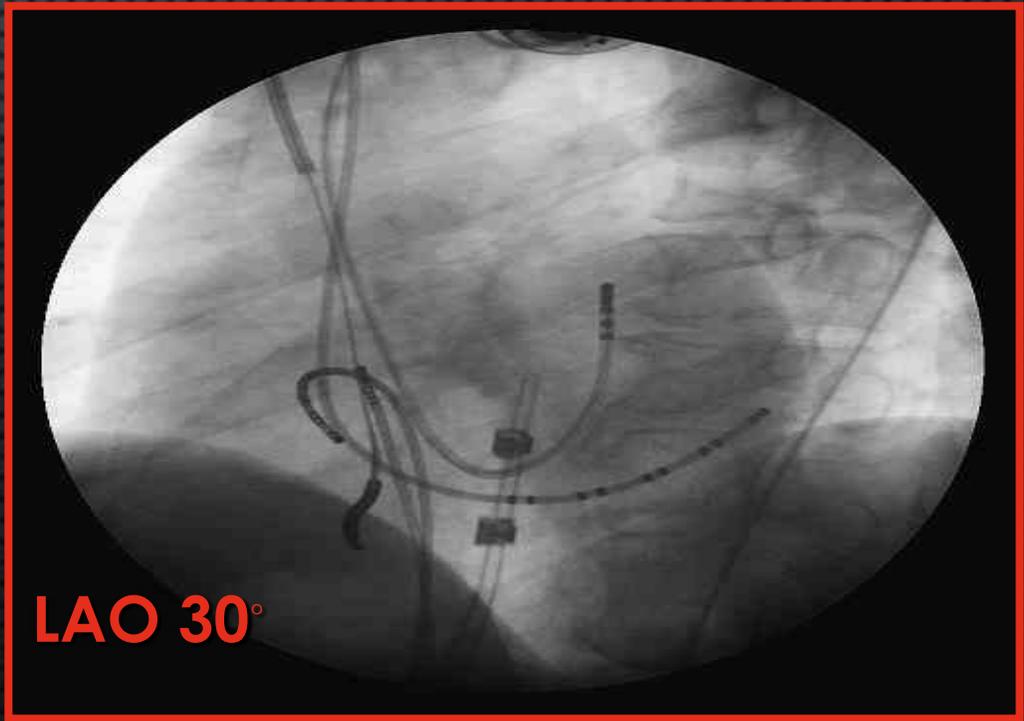
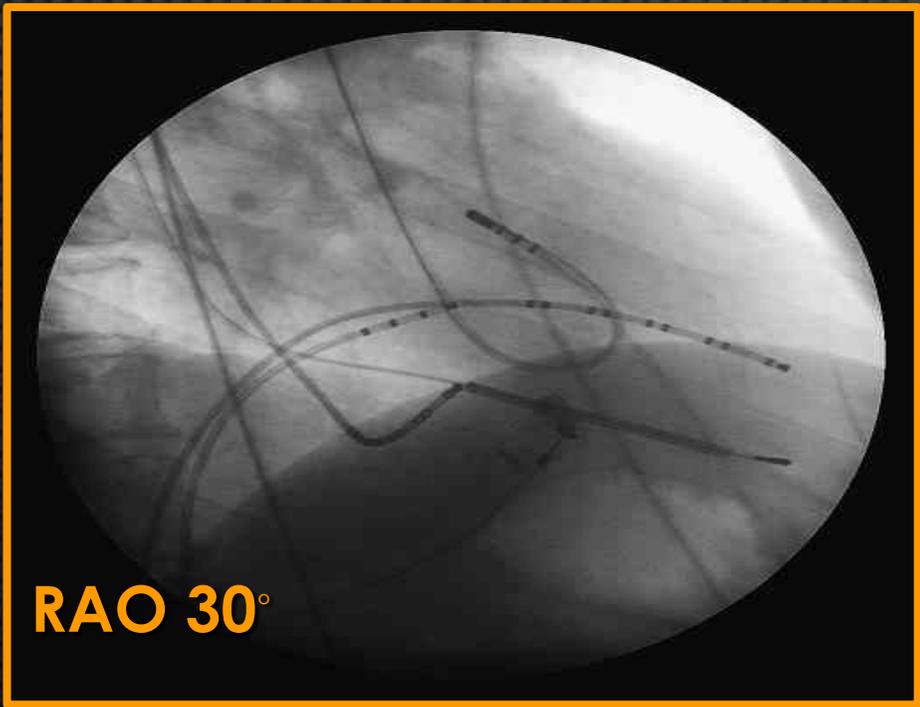
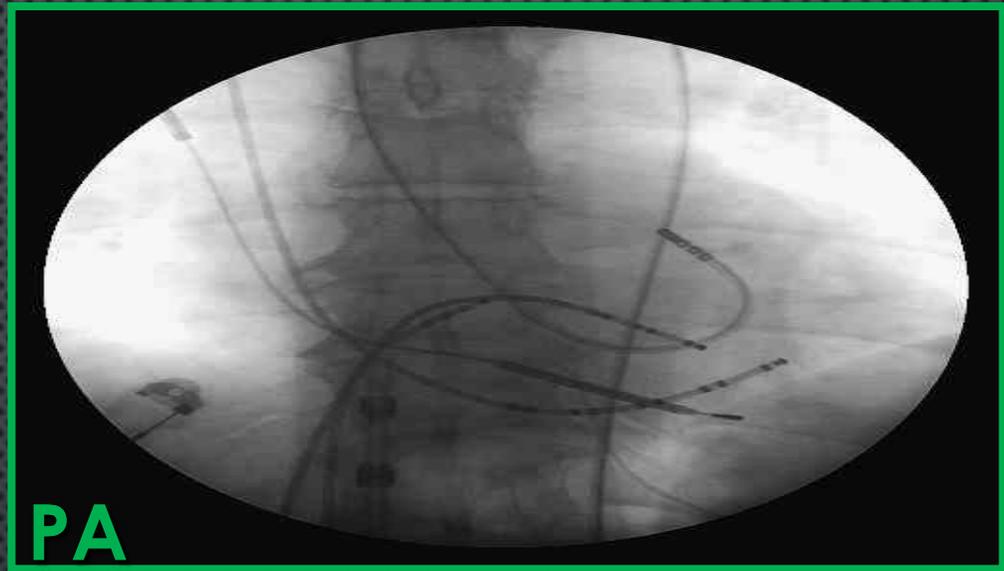


IDIOPATHIC MITRAL ANEMIAS VT

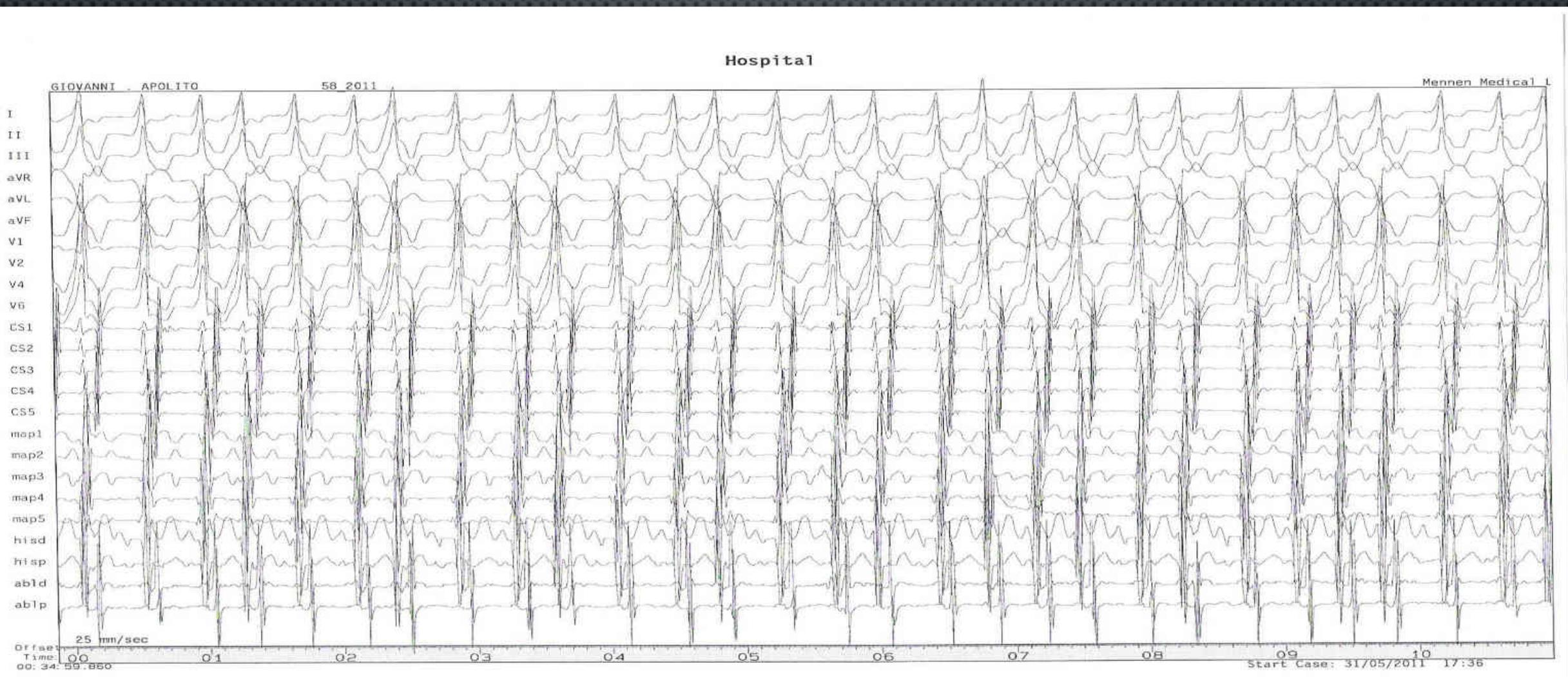


Idiopathic Mitral Annulus VT





WIDE COMPLEX TACHYCARDIA WITH RR VARIABILITY (PREEXCITED AF OR VT?)



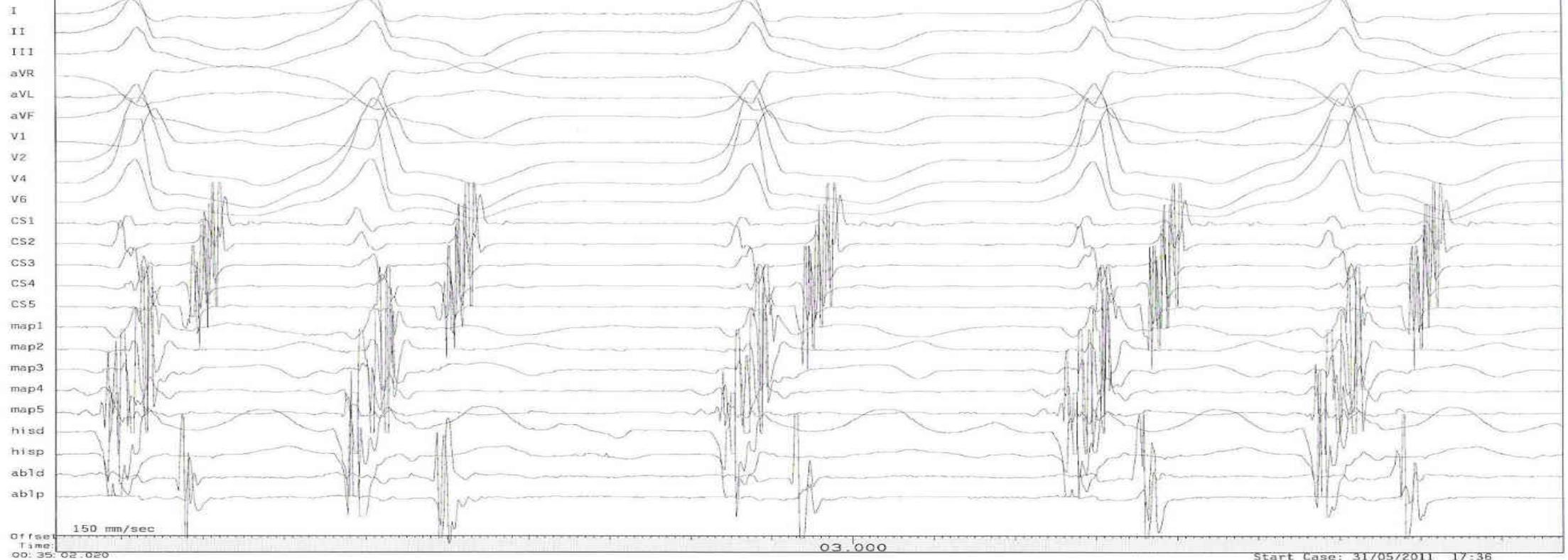
VARIABLE MORPHOLOGY OF VT COMPLEXES

Hospital

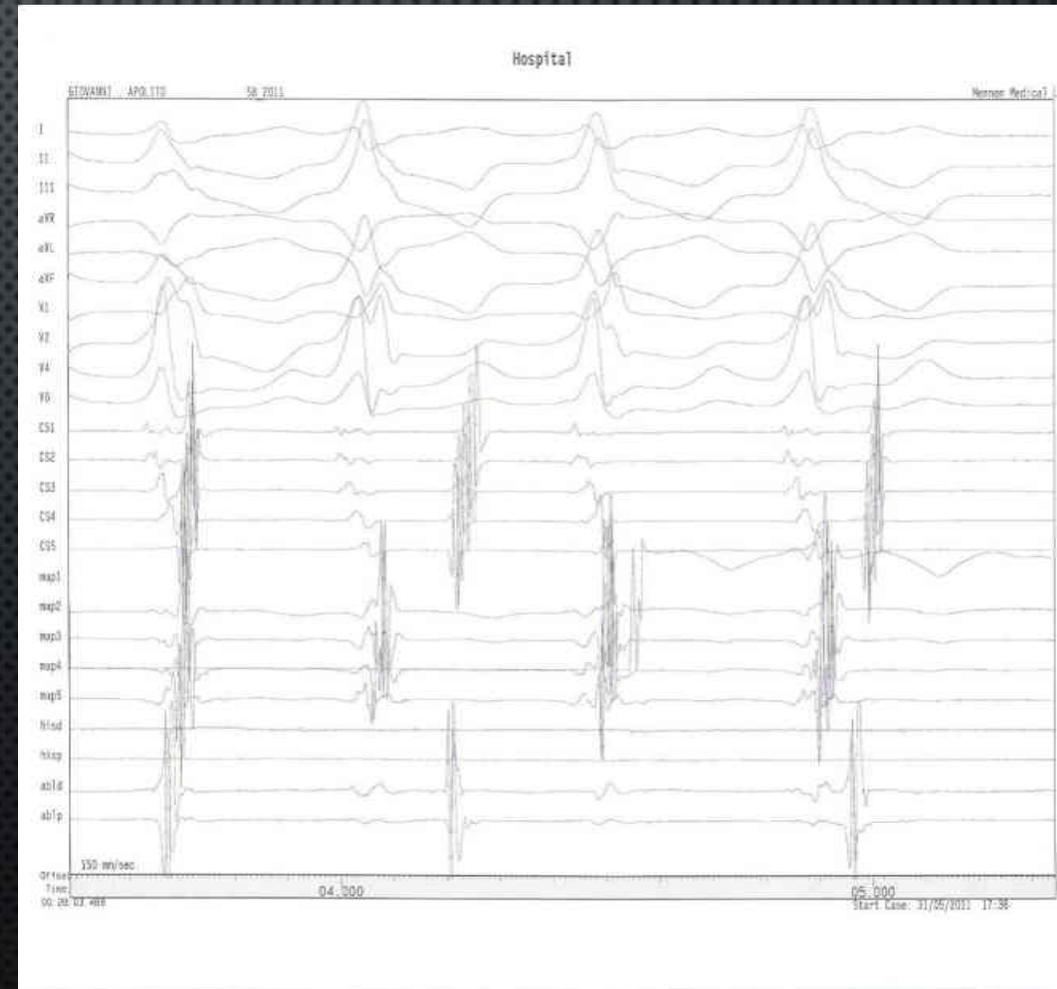
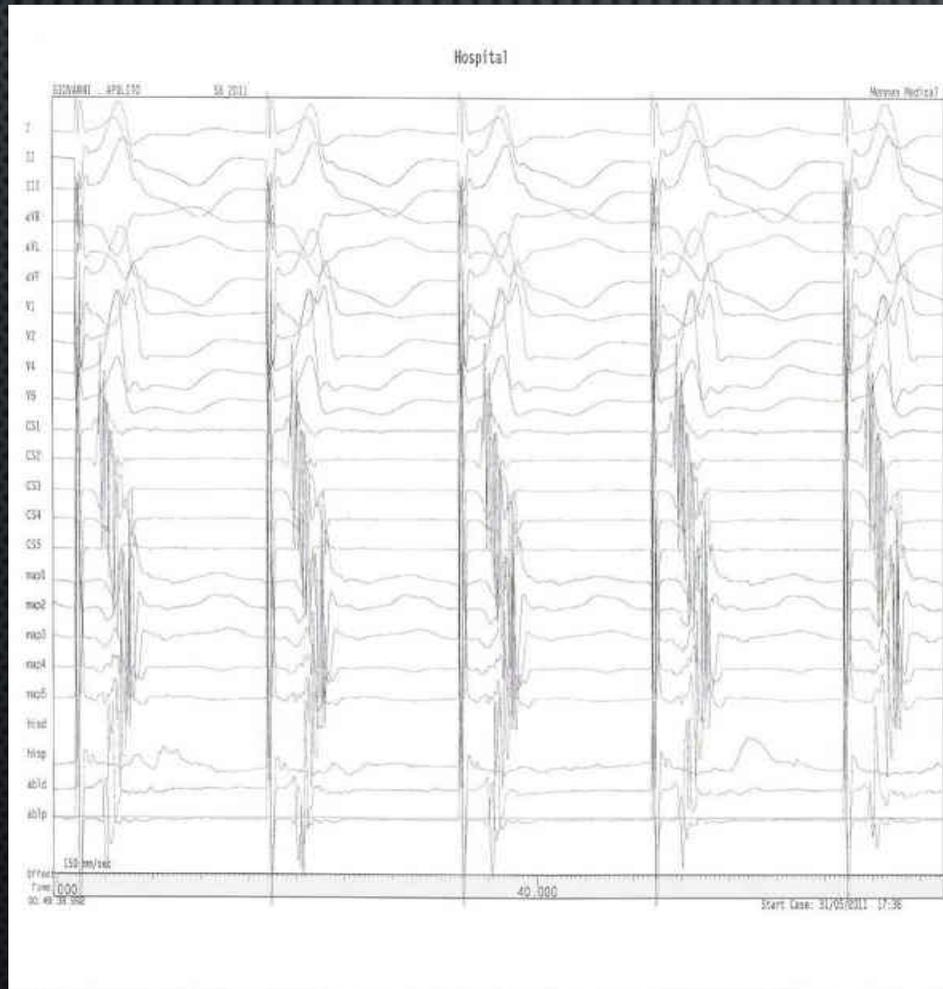
GIOVANNI . APOLITO

58 2011

Mennen Medical L



MATCHING PACE – MAPPING FOR 1° VT

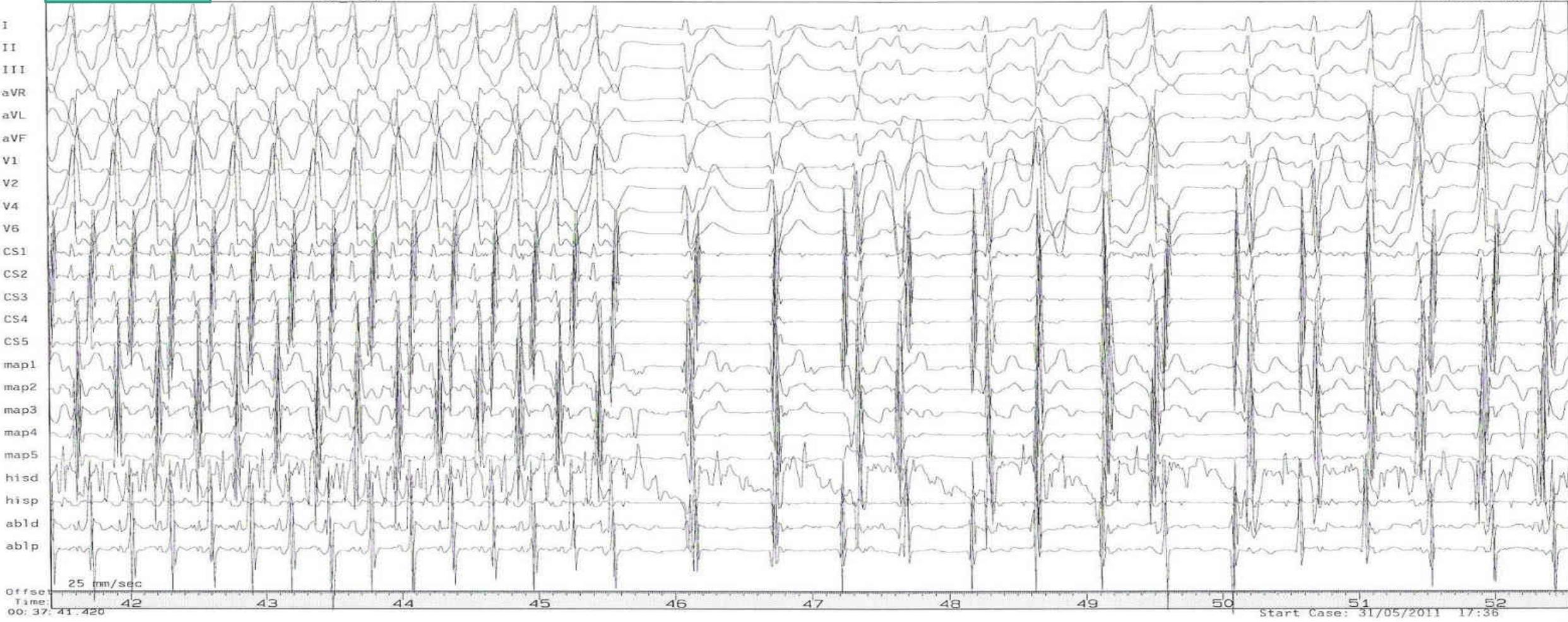


SUBVALVULAR EXIT ABLATION

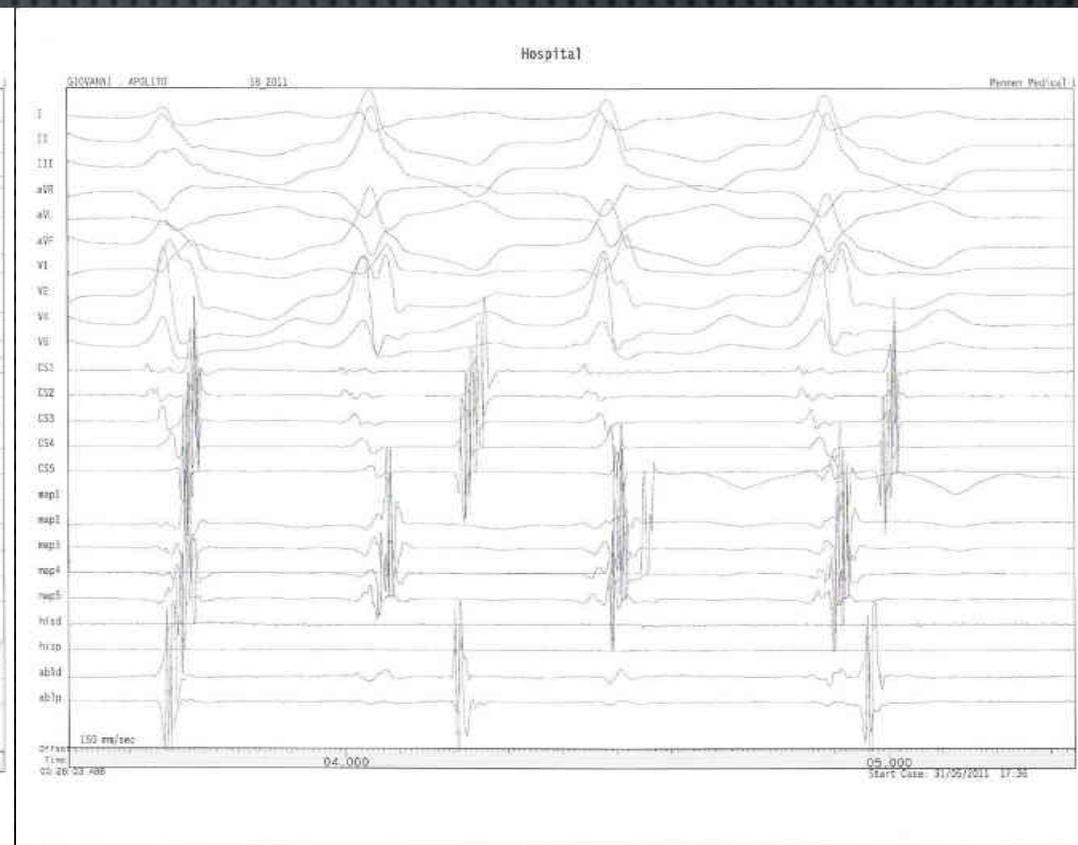
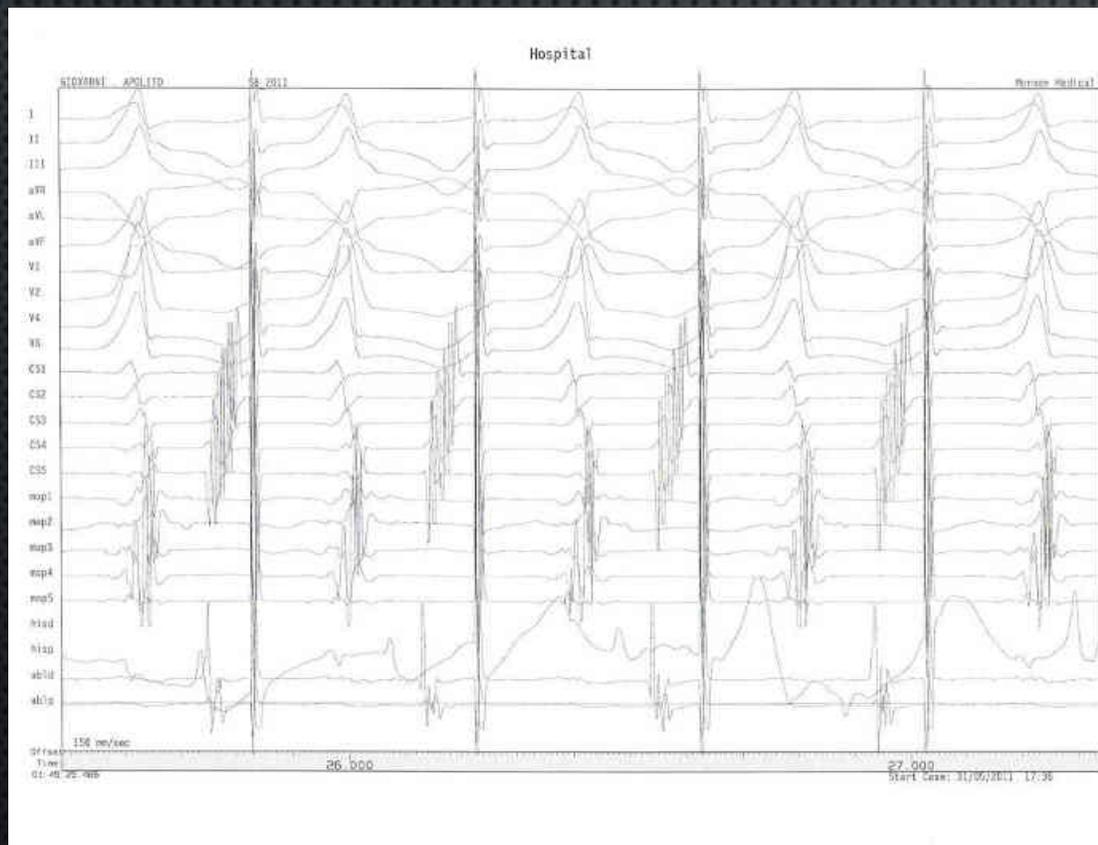
Hospital

58 2011

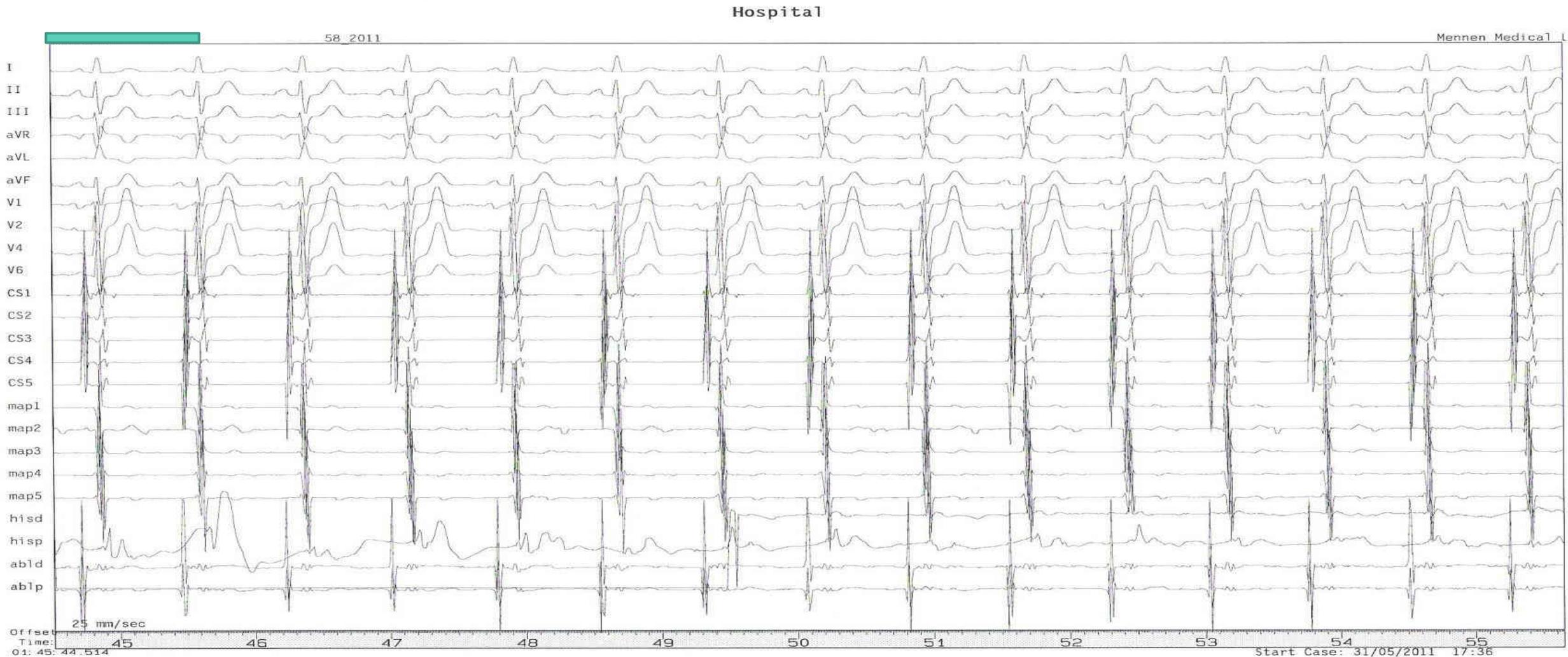
Mennen Medical

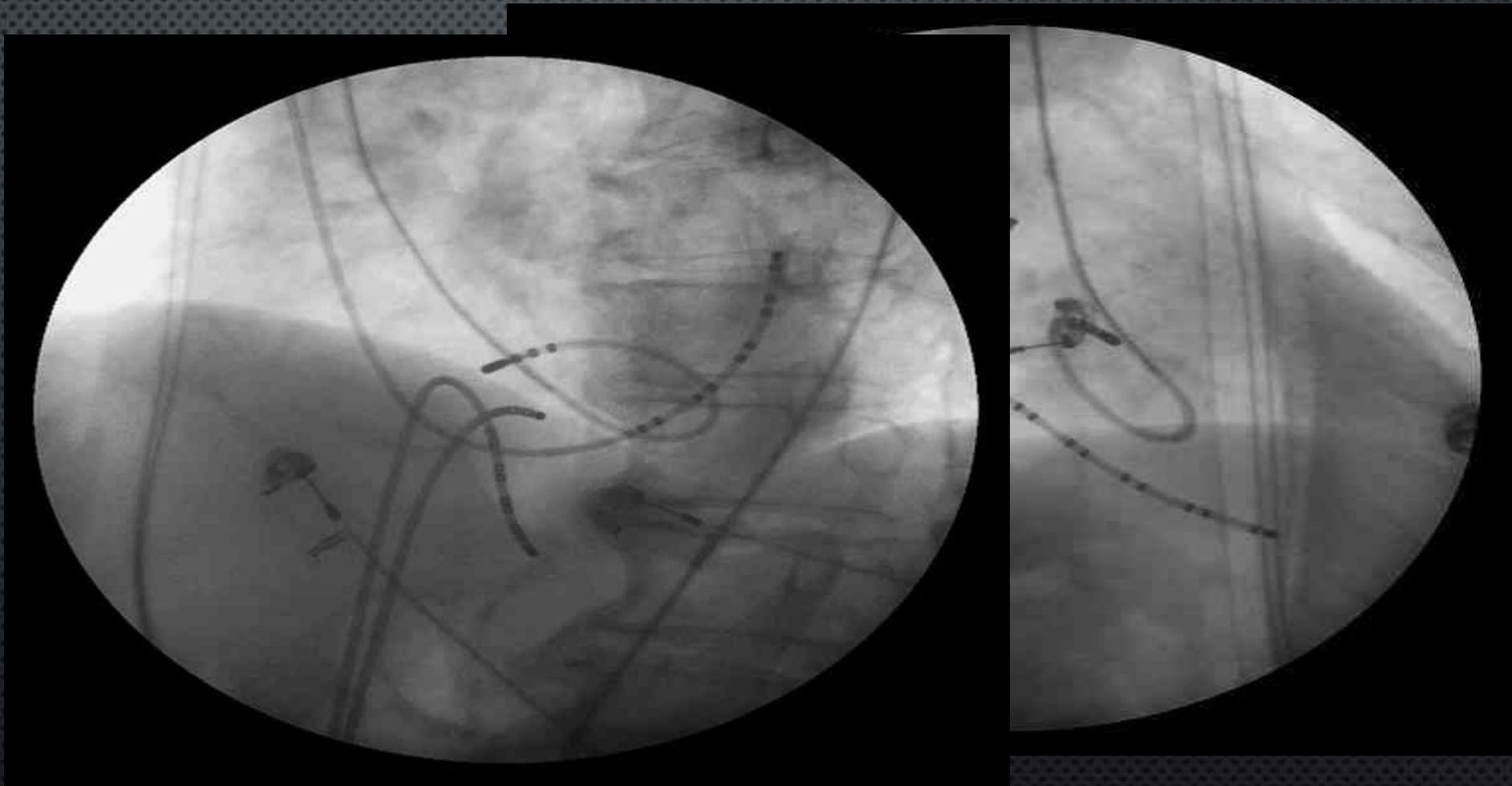


MATCHING PACE – MAPPING FOR 2° VT

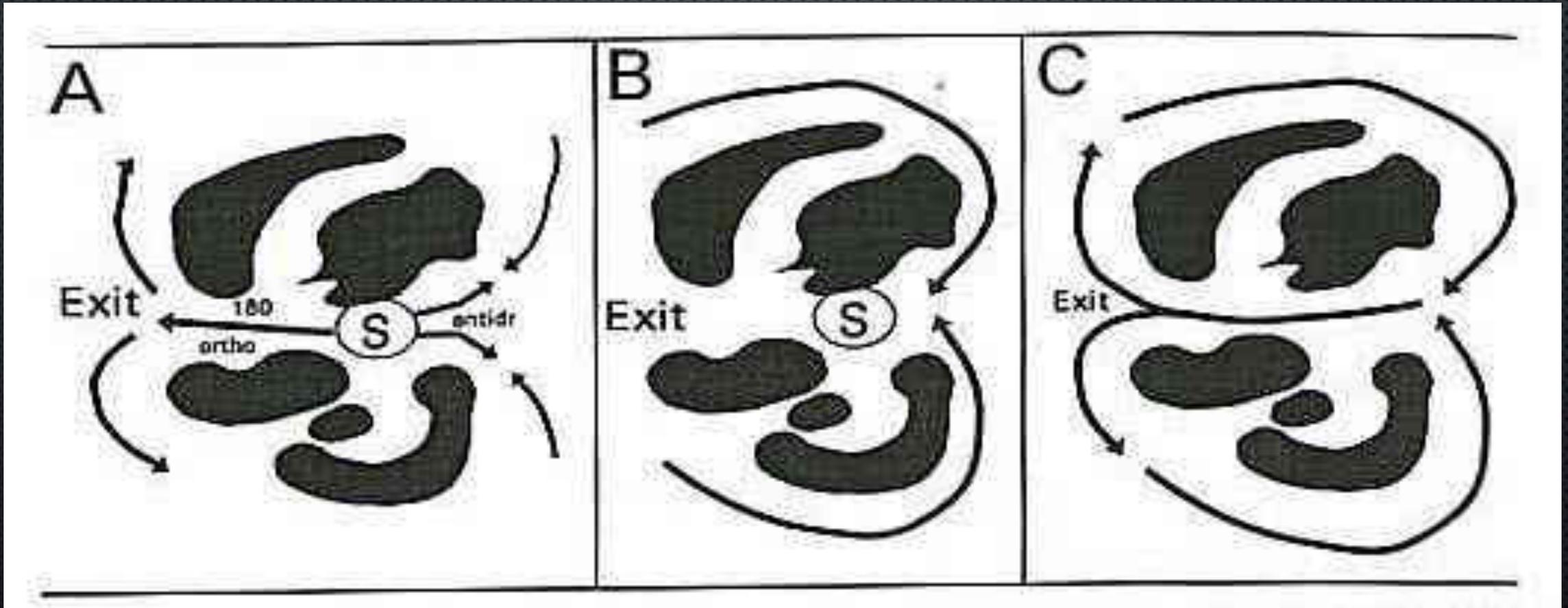


AFTER ABLATION OF THE SUPRAVALVULAR EXIT



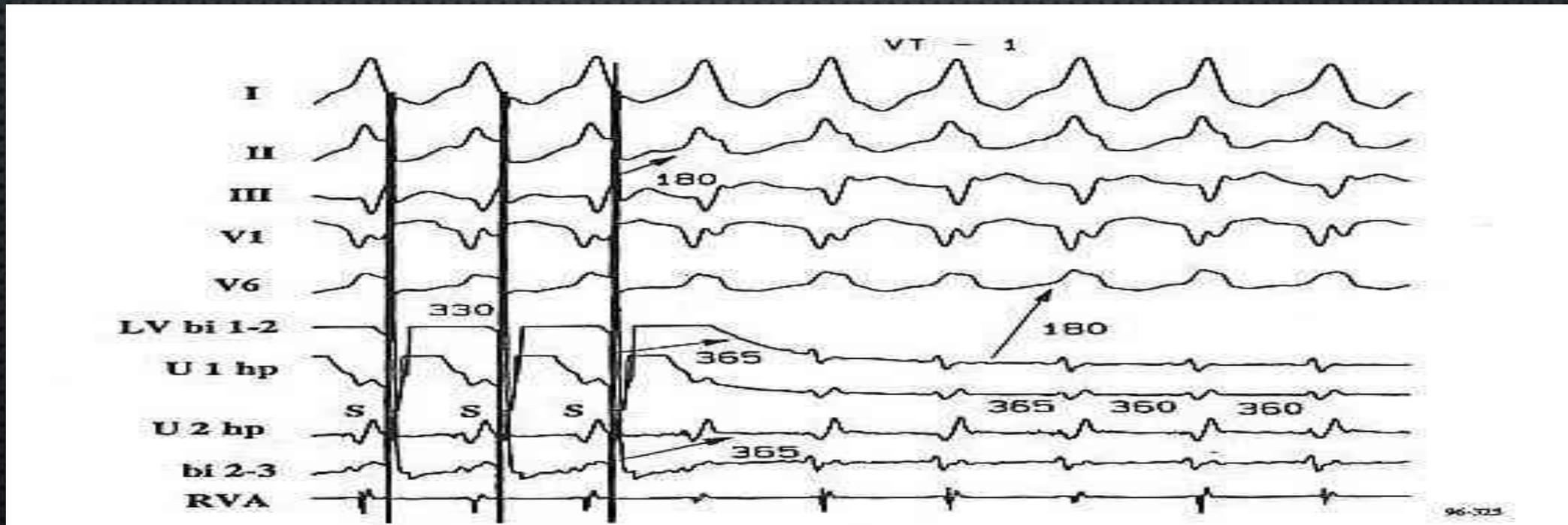


- A) The paced impulse divides into two wave - fronts – ortho- and antidromic. The latter collides with the VT wave - front
- B) The orthodromic impulse reenters the circuit and accelerates the VT
- C) The paced beats propagates through the circuit

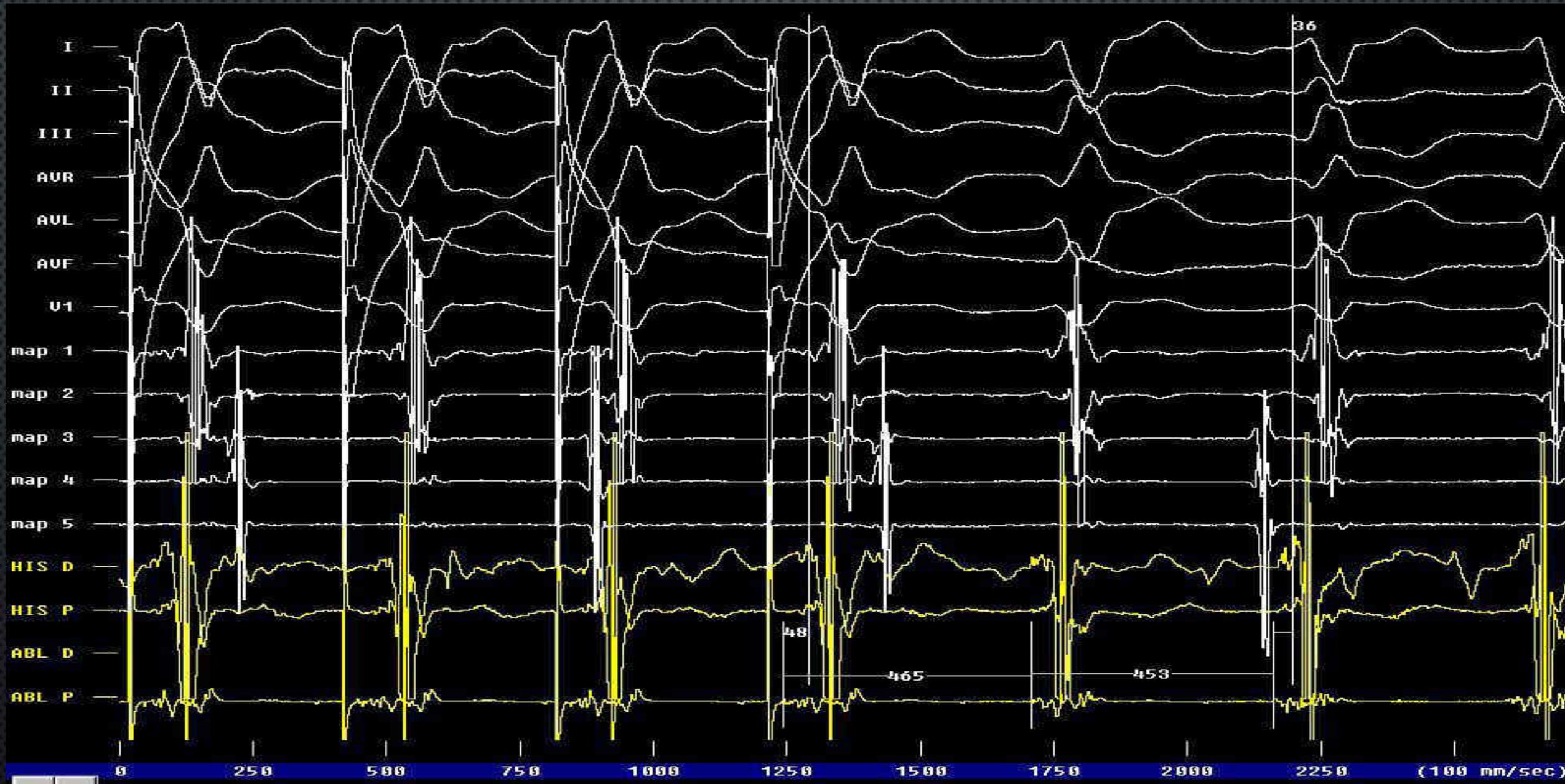


CONCEALED ENTRAINMENT FROM AN INNER POINT:

- Analogous ECG morphology
- Post Pacing Interval = VT cl (365 msec)
- St-QRS = Mid Diastolic Potential – QRS (180 msec) = 50 % cl VT



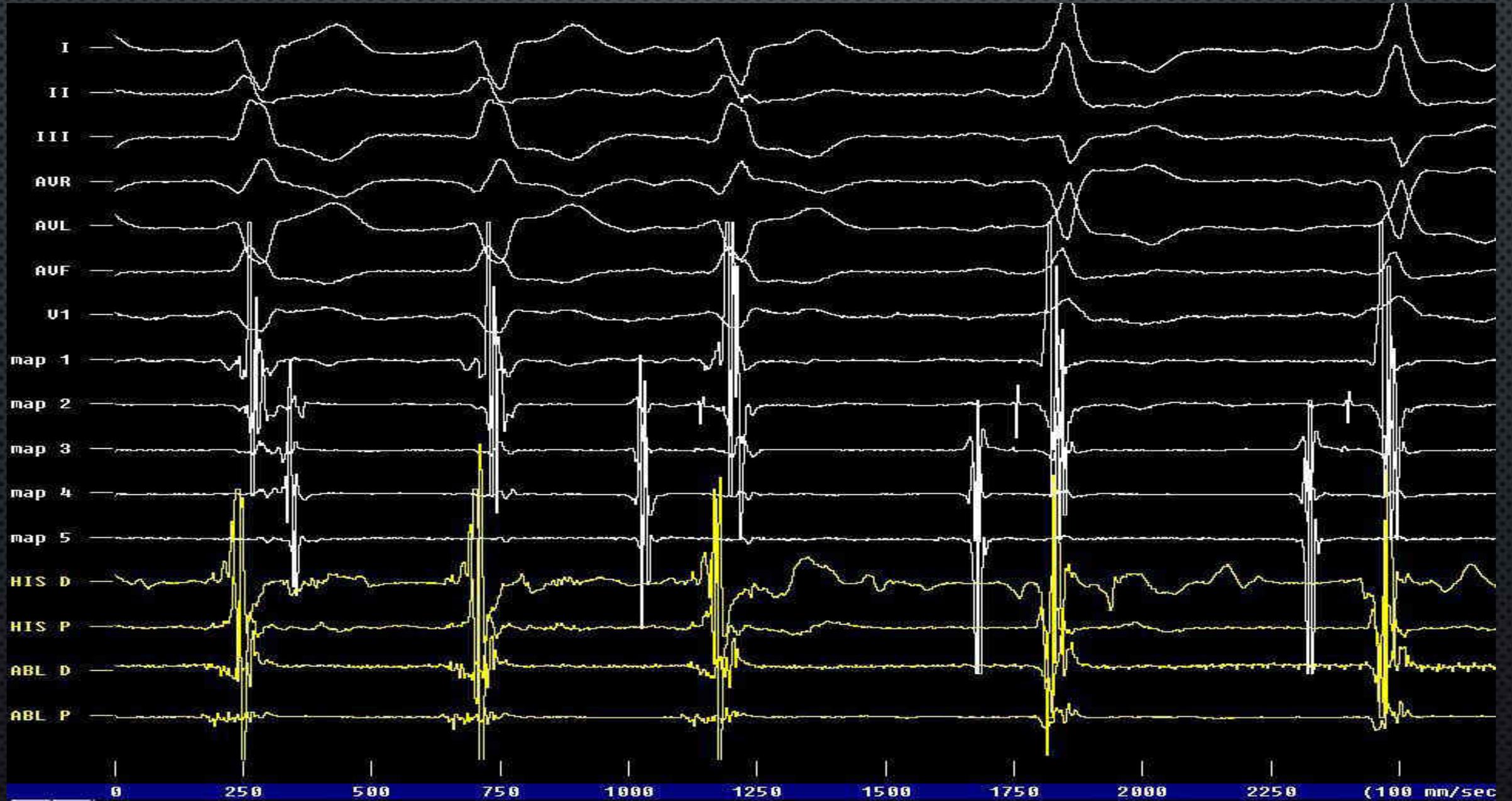
CONCEALED ENTRAINMENT FROM AN EXIT SITE



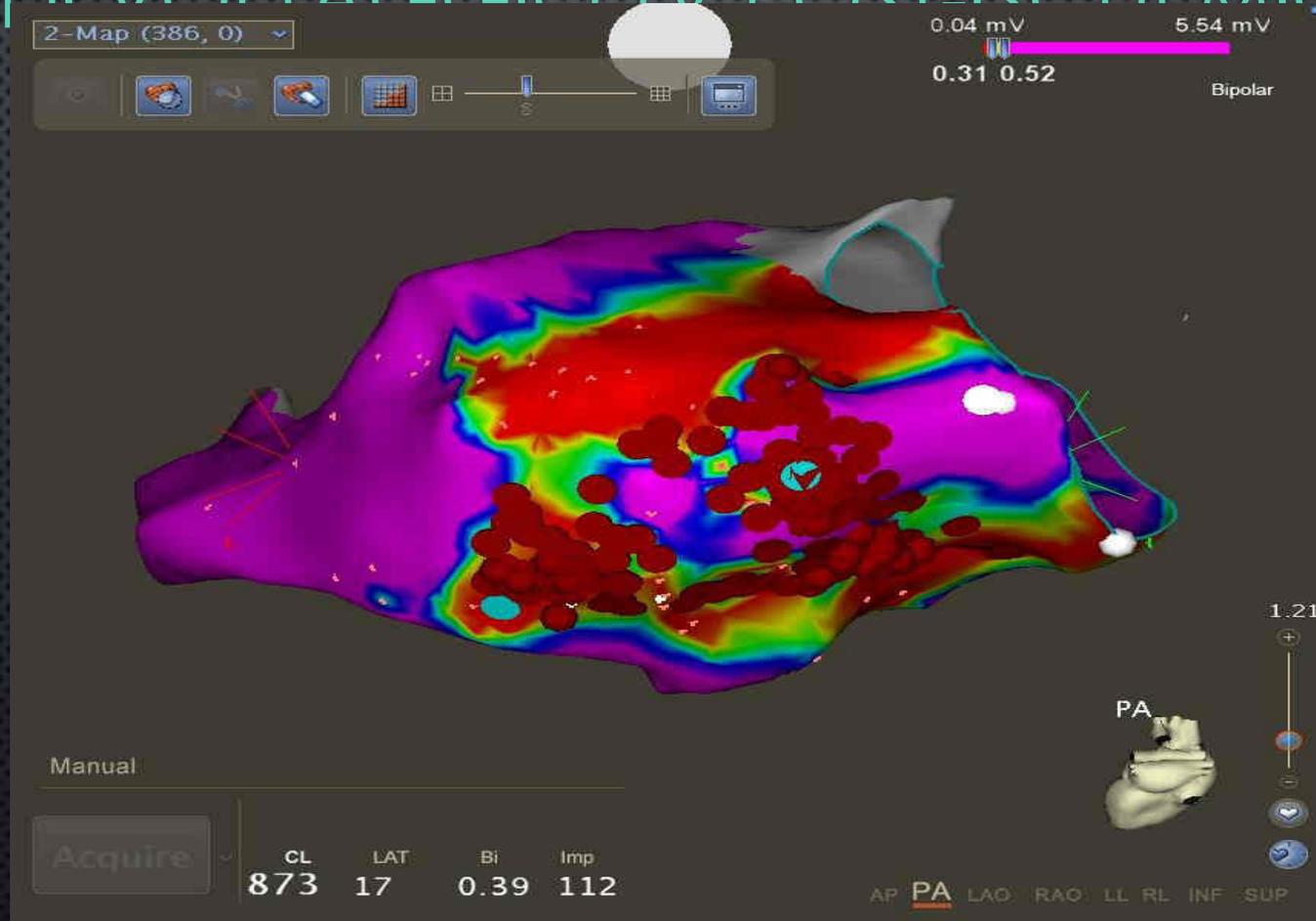
VT INTERRUPTION DURING RF



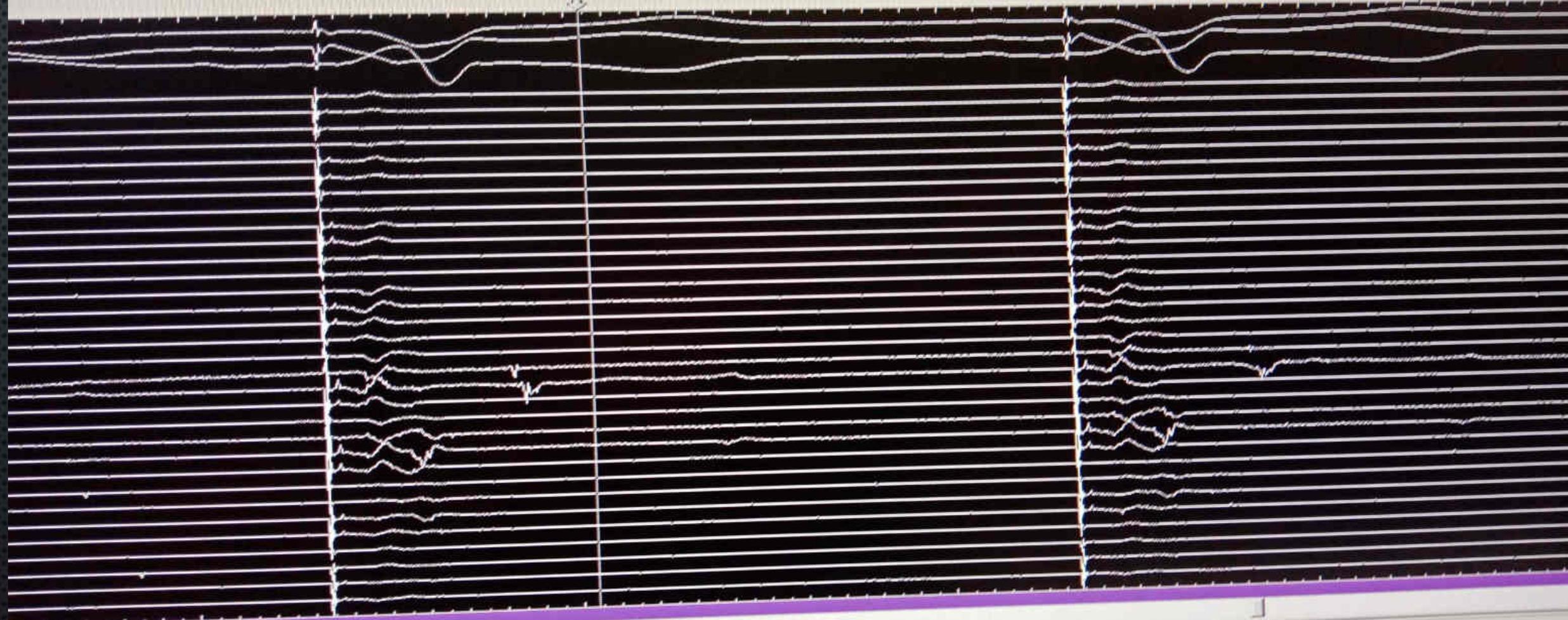
VT INTERRUPTION DURING RF



MAPPA DI VOLTAGGIO TV POST-ISCHEMICA



Comment	PCL	Stim1	Stim2	Stim3	Stim4	Site
Event #12	600	F 3 4 ...	Off	Off	Off	F 3 4



2810 ms

Pace	PCL	Stim1	Stim2	Stim3	Stim4	Site
Pace	600	F 3 4 L...	Off	Off	Off	E 3 4

Time	Comment
17:42:58	Event #12

OO Pace

Patient Amplifier Start Mark RT Event Configure View Print Report Tools Window Help



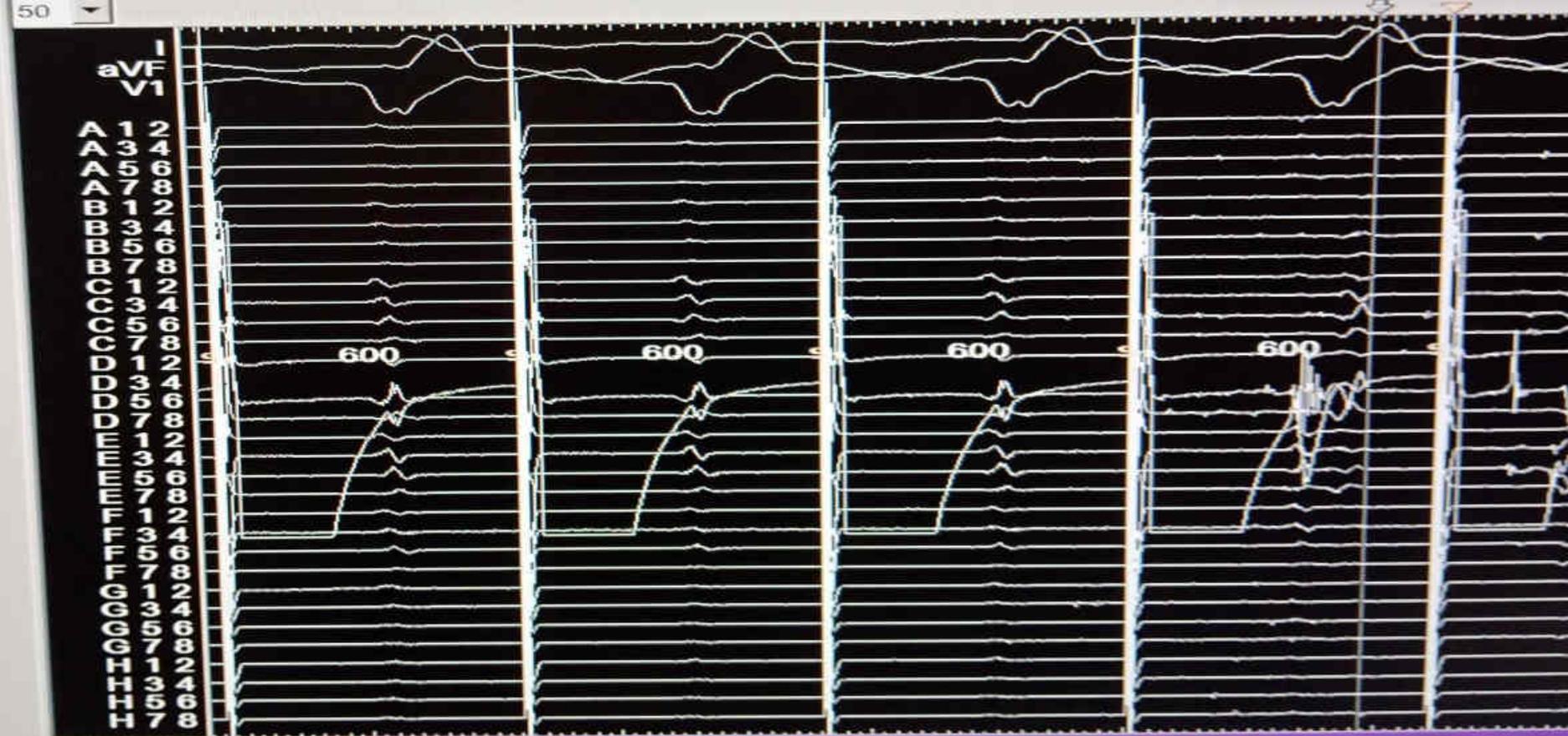
Intervals: AH A₂H₂ HV

00:00:00

CL 964
HR 62

Pace 17:41:18

	Time	Comment	PCL	Stim1
OO Pace	17:41:18	Event #11	600	D 3 4...

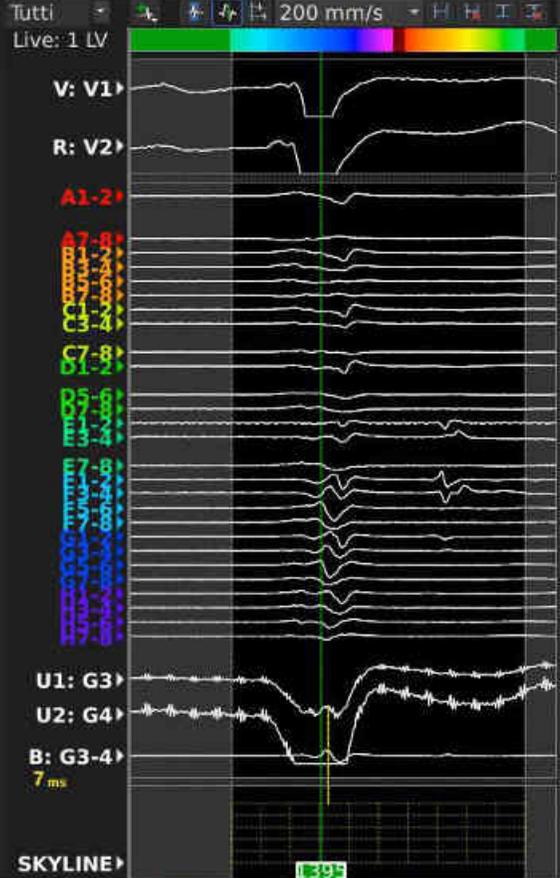


Archive TUTTI ORION EQUATORIALI 5620 ms

April 28, 2021 17:41:18

17:41:09	Stim Config Change			
17:41:18	Pace			
OO Pace	17:41:18	Event #11		

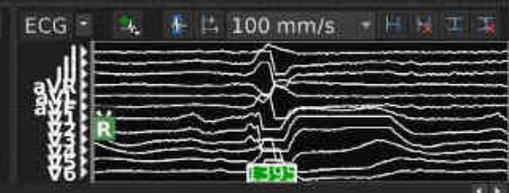
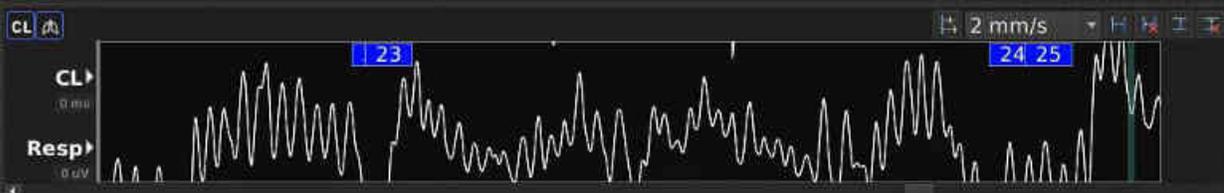
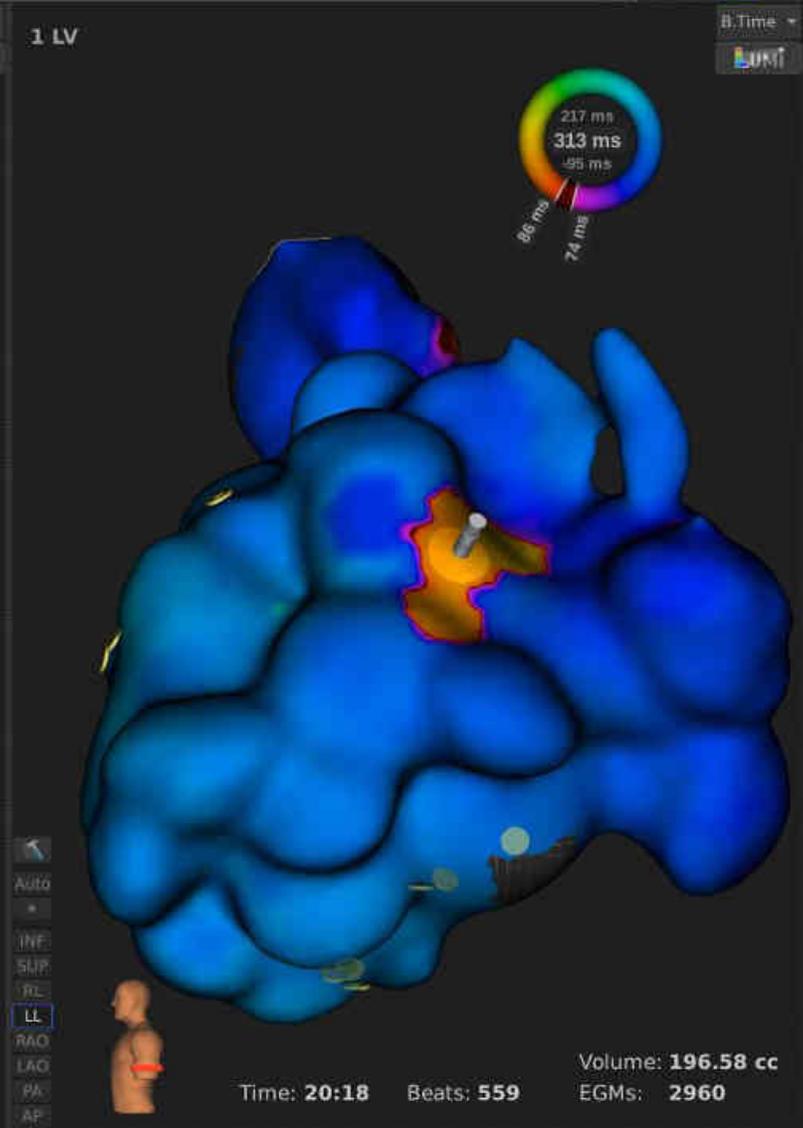
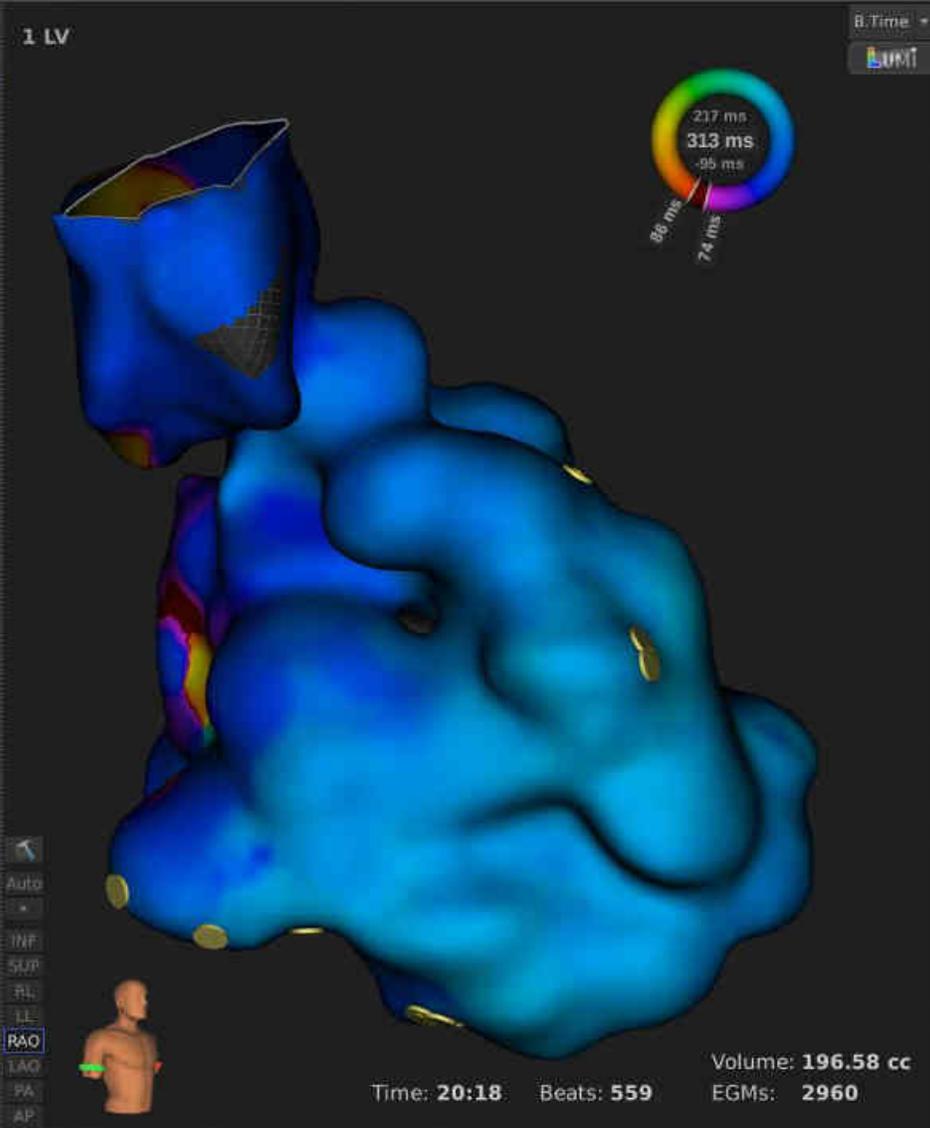
CL: 636ms BPM: 94



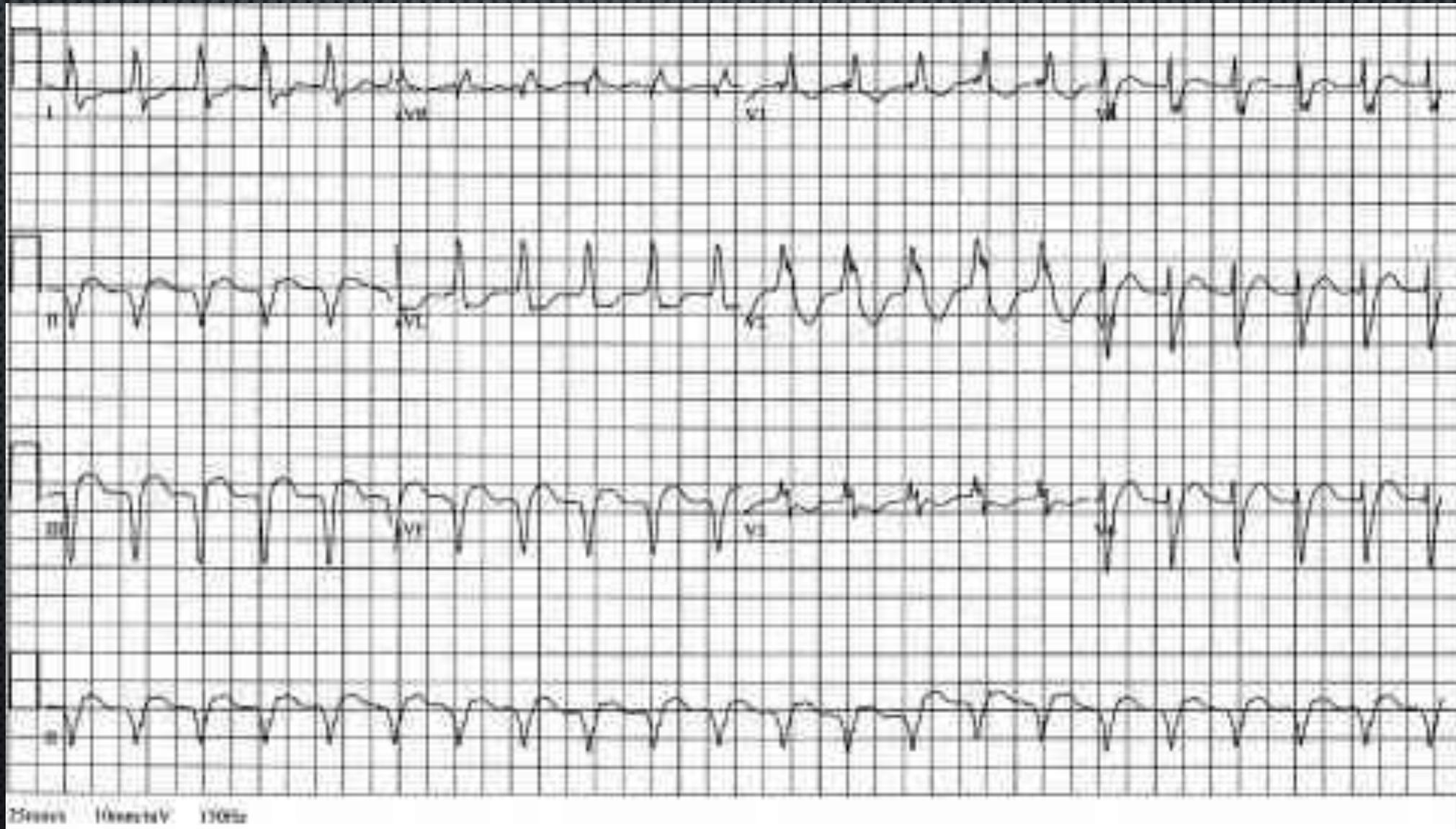
Show Beat Acceptance Criteria

Reject Accept

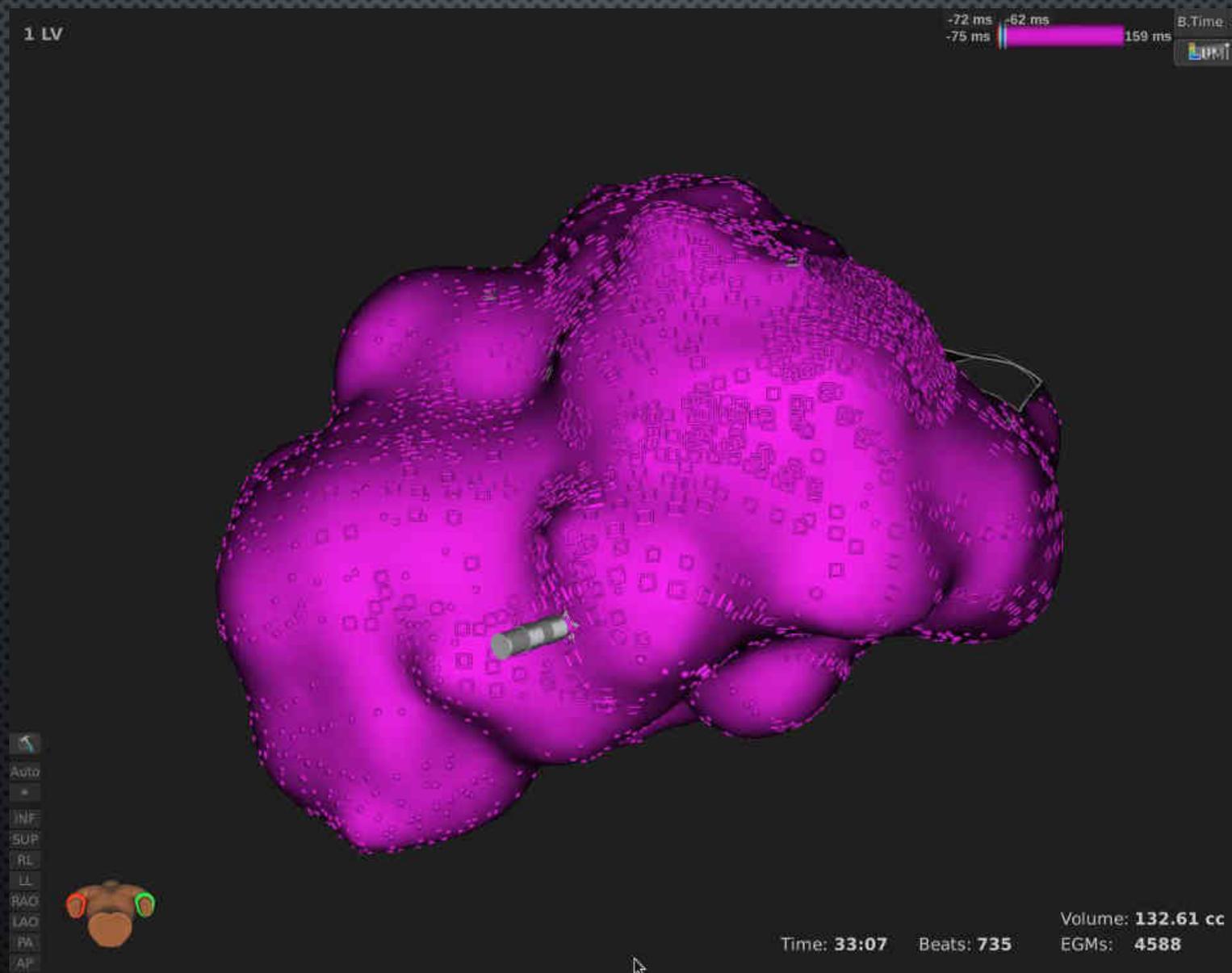
No AutoTag selected



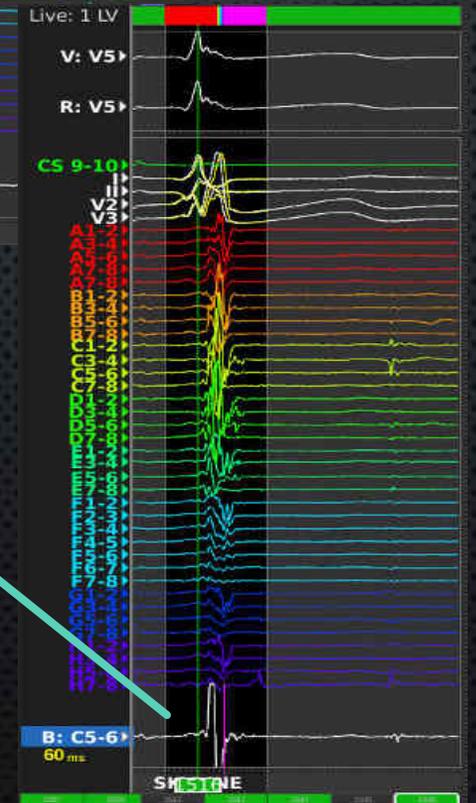
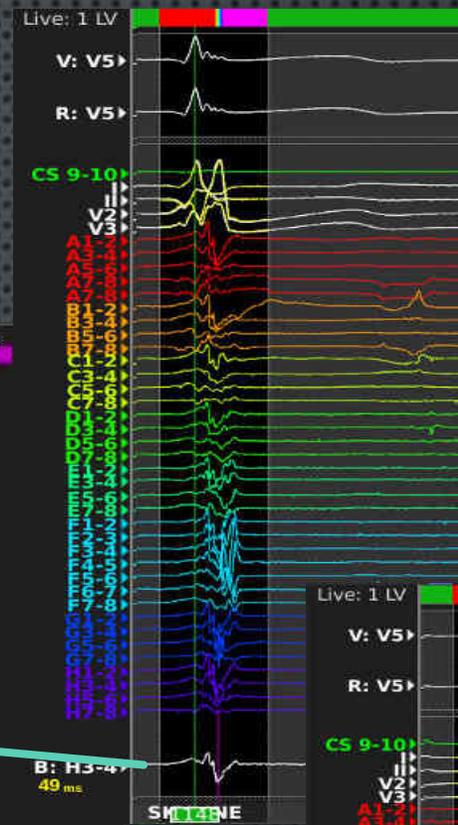
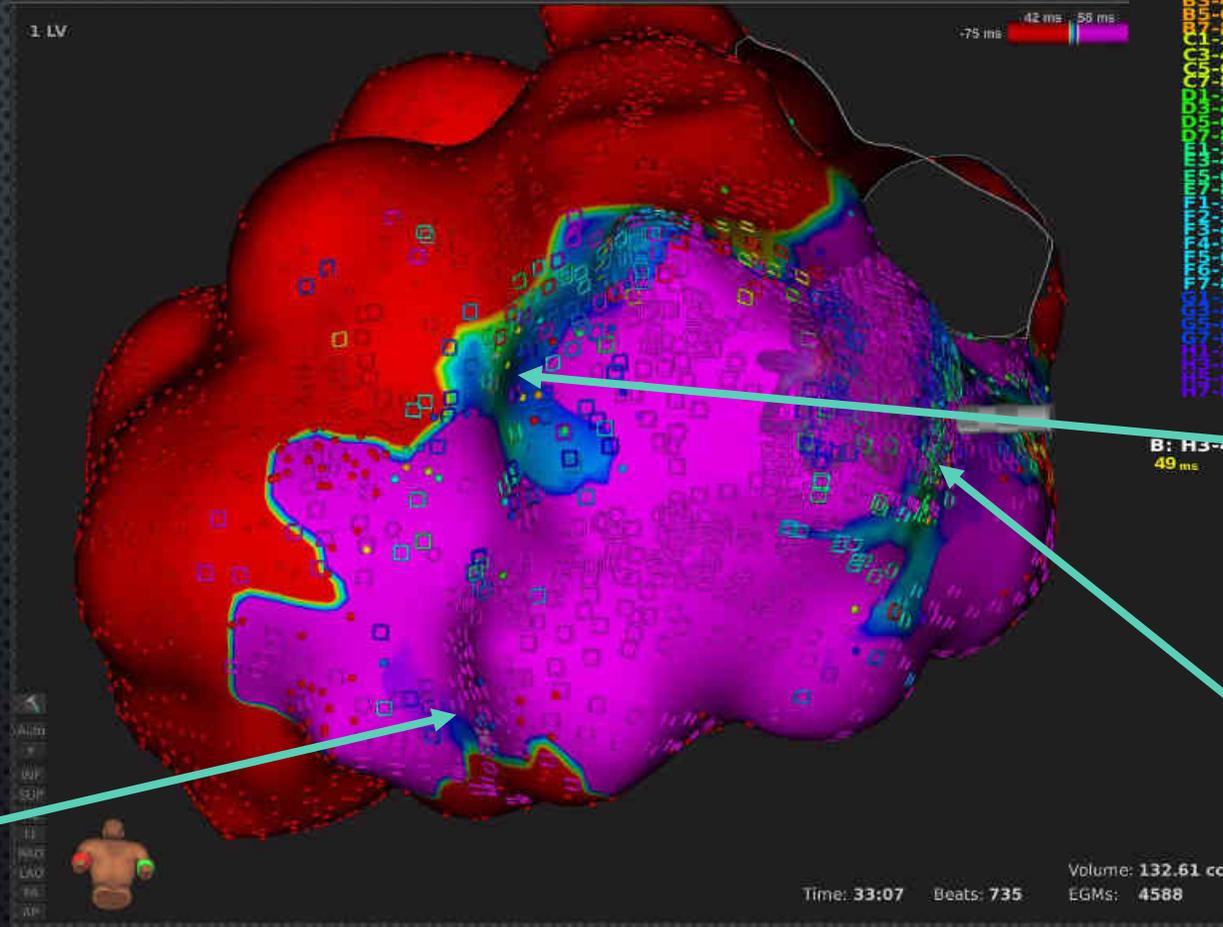
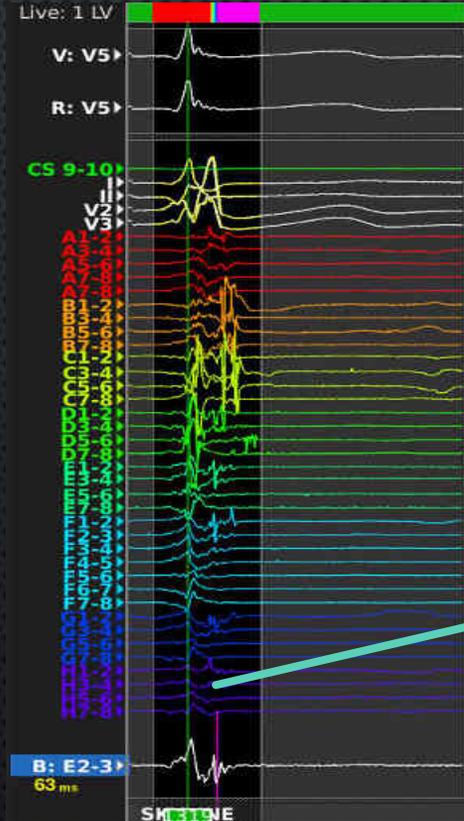
ECG TACHICARDIA CLINICA



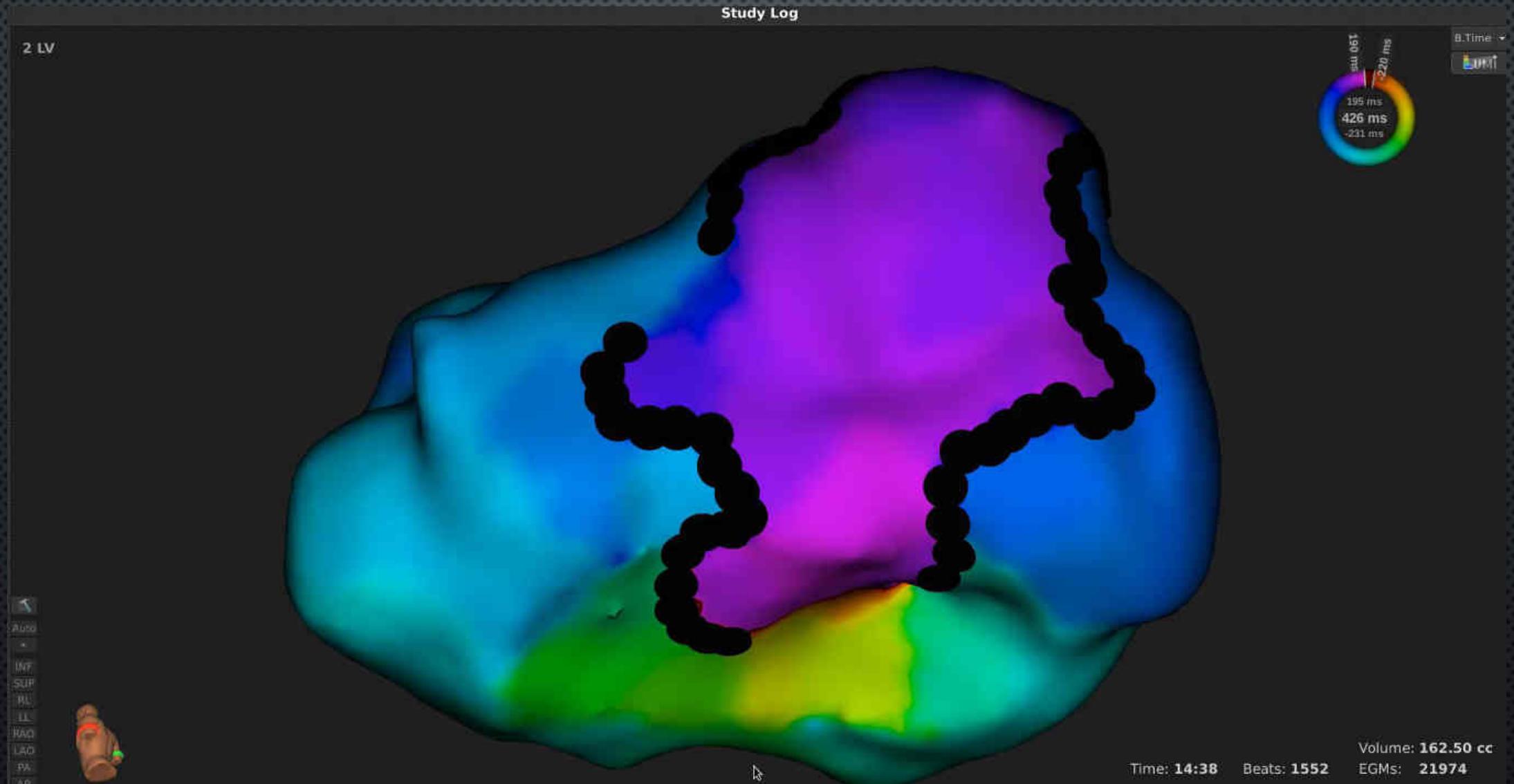
MAPPA DI SUBSTRATO



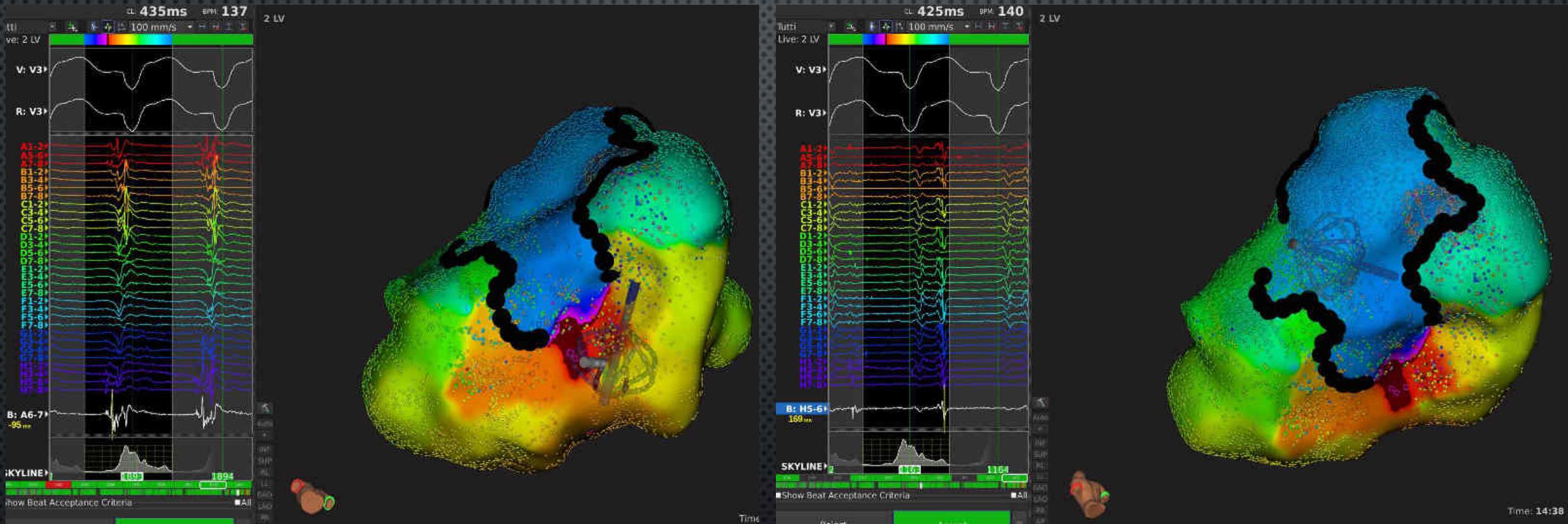
INGRESSI NELL'AREA DI SCAR



MAPPA IN TACHICARDIA

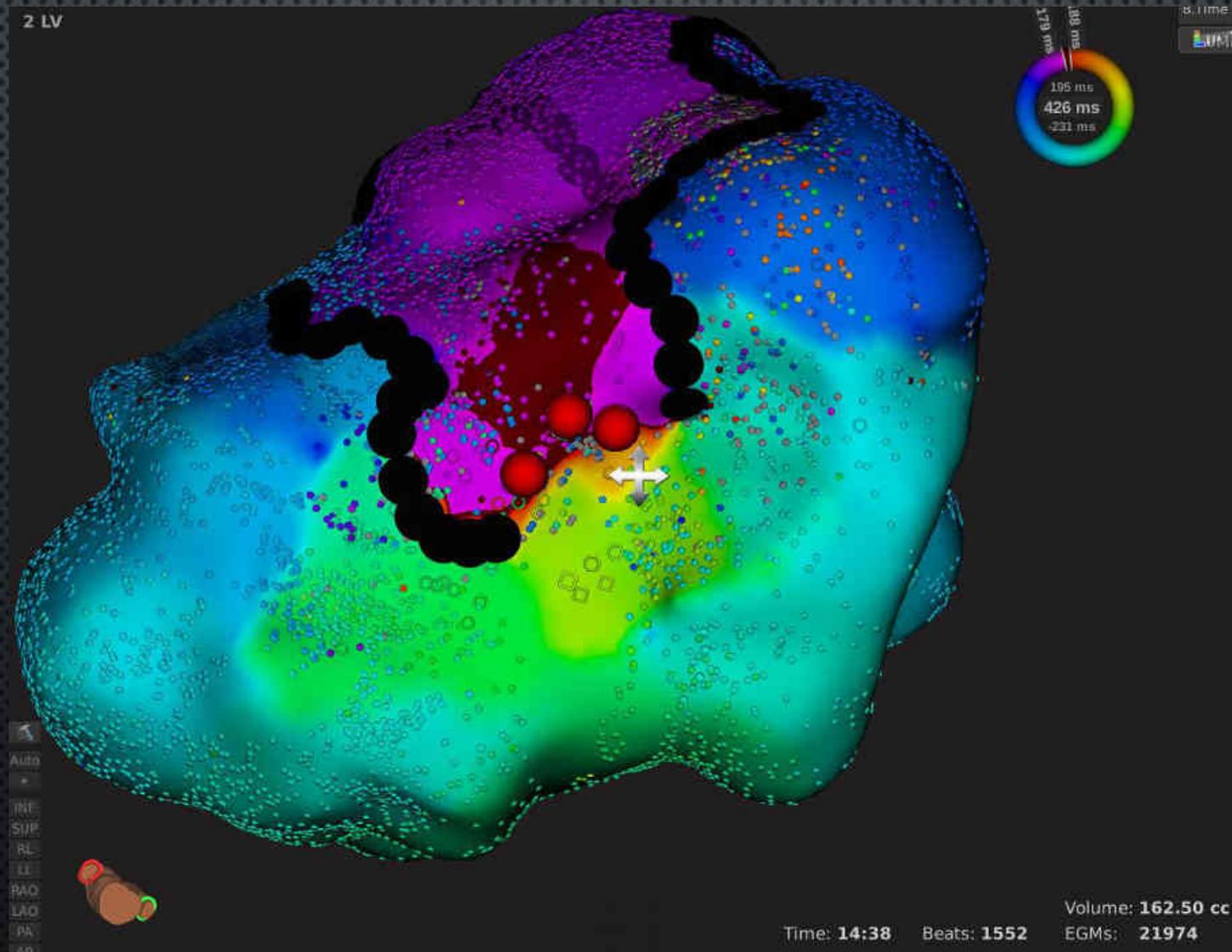


POTENZIALI PRESISTOLICI E MESODIASTOLICI



Gli ingressi nell'area di scar in ritmo sinusale corrispondono a zone di ingresso ed uscita durante tachicardia

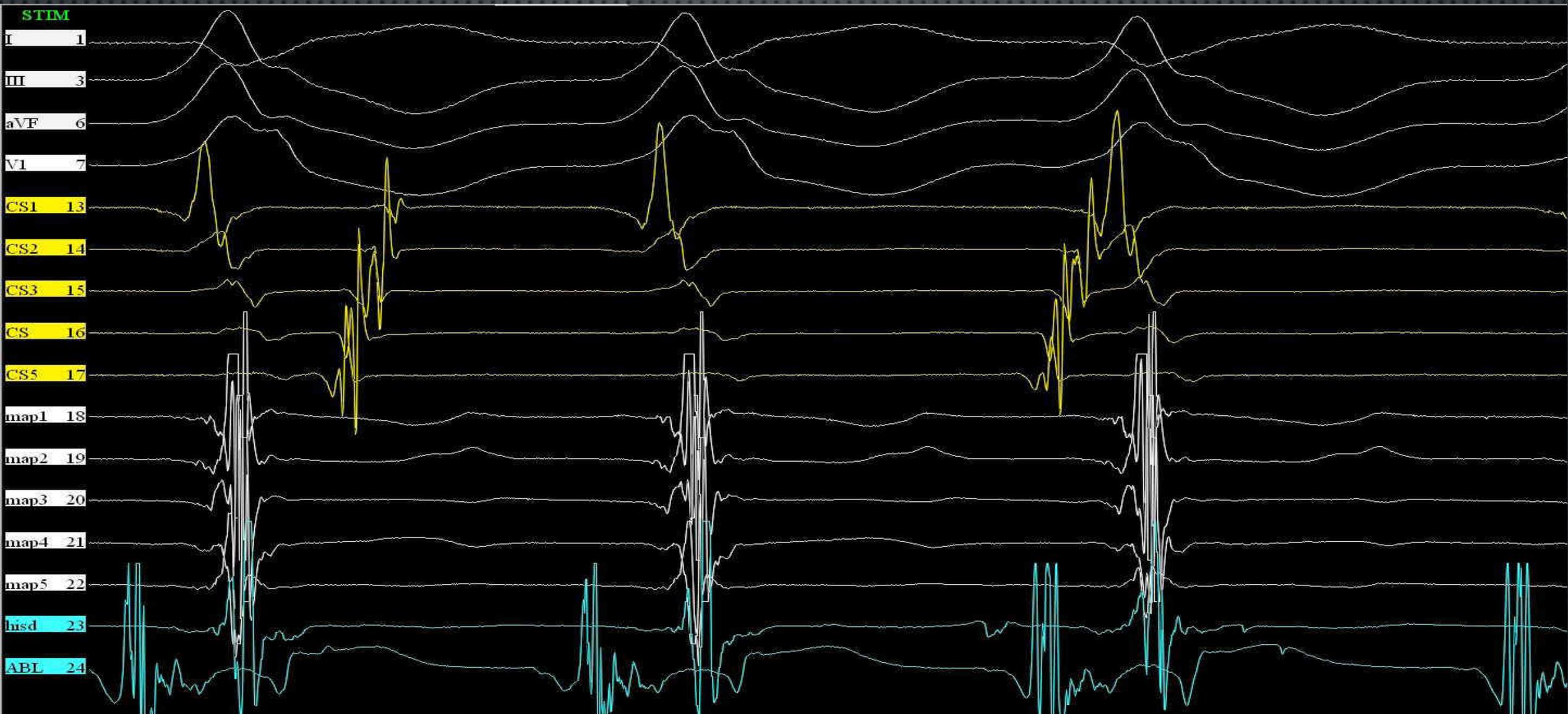
SITO DI INTERRUZIONE DELLA TACHICARDIA



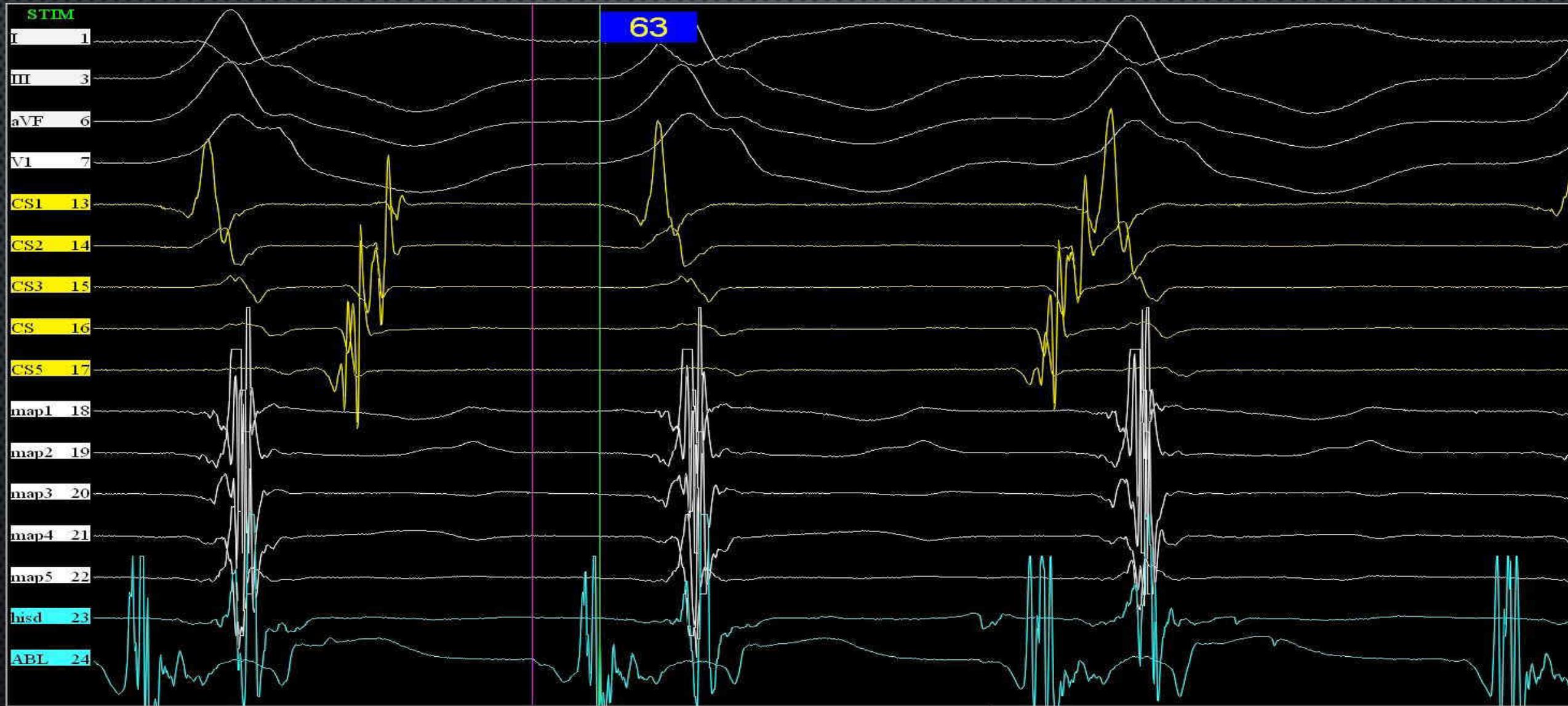
Inoltre, l'istmo della tachicardia è interamente contenuto all'interno della zona di potenziali anormali in ritmo sinusale

Procedura completata omogeneizzando l'area di scar, ottenendo la non inducibilità di alcuna tachicardia

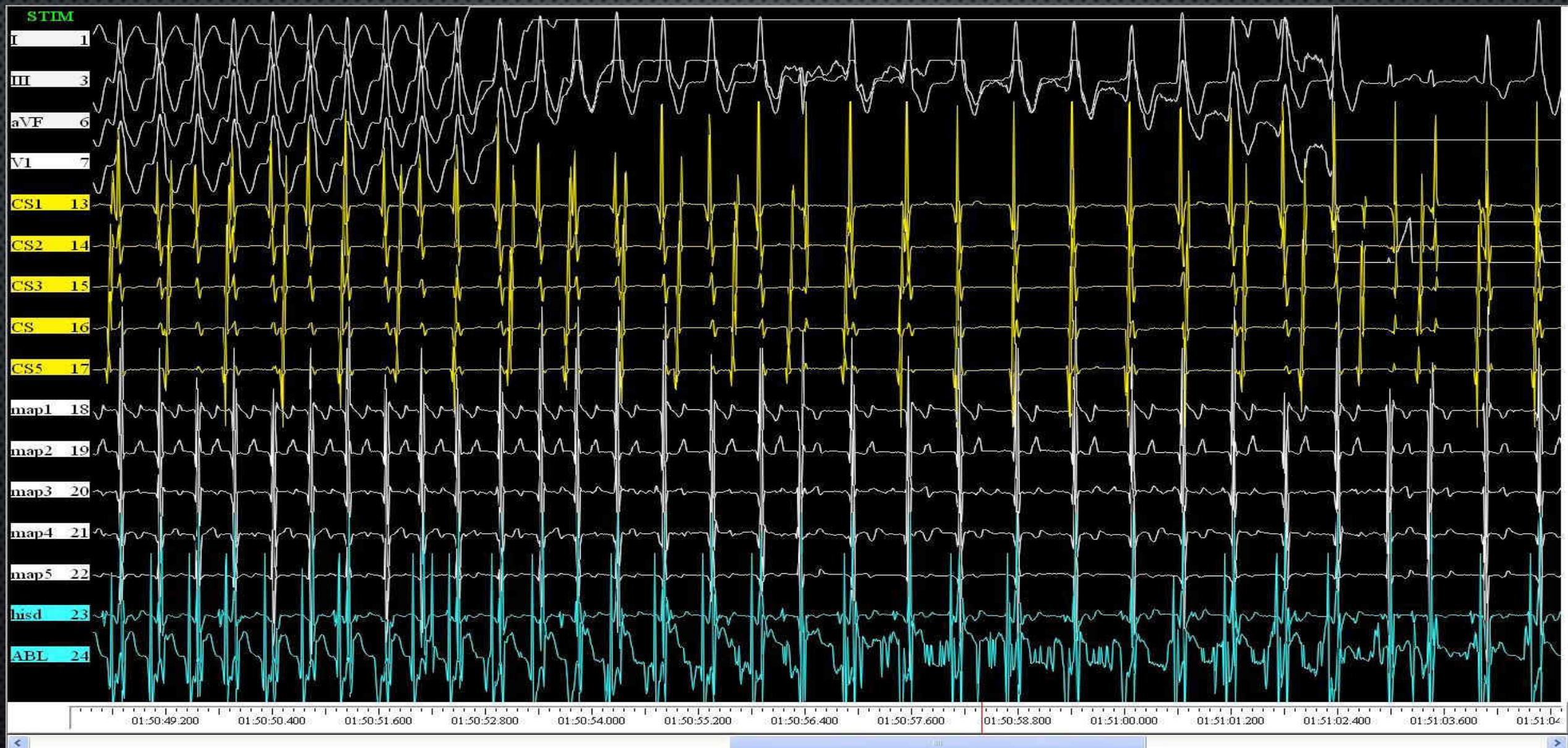
FASCICULAR VT



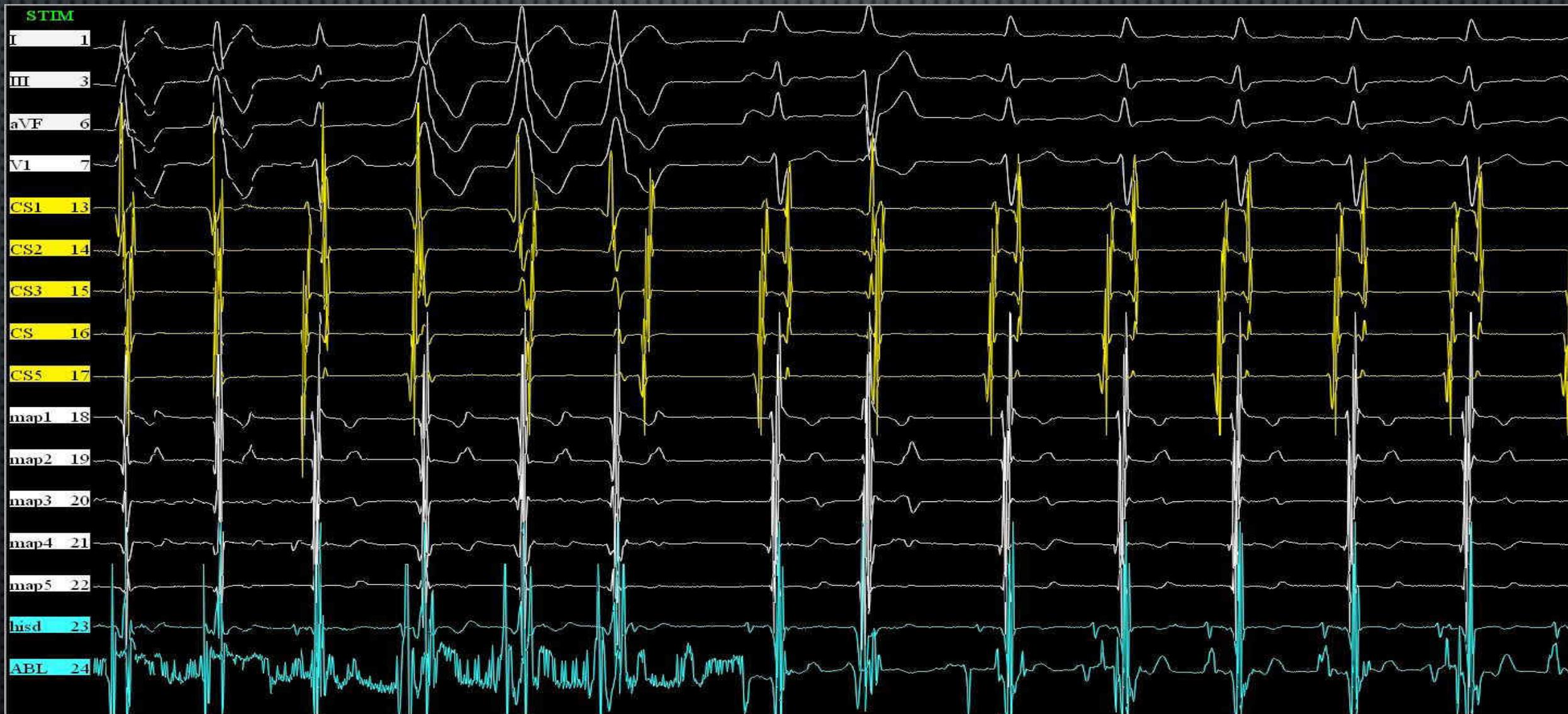
DP – QRS = - 63 MS



DURING RF, VT SLOWING → SR



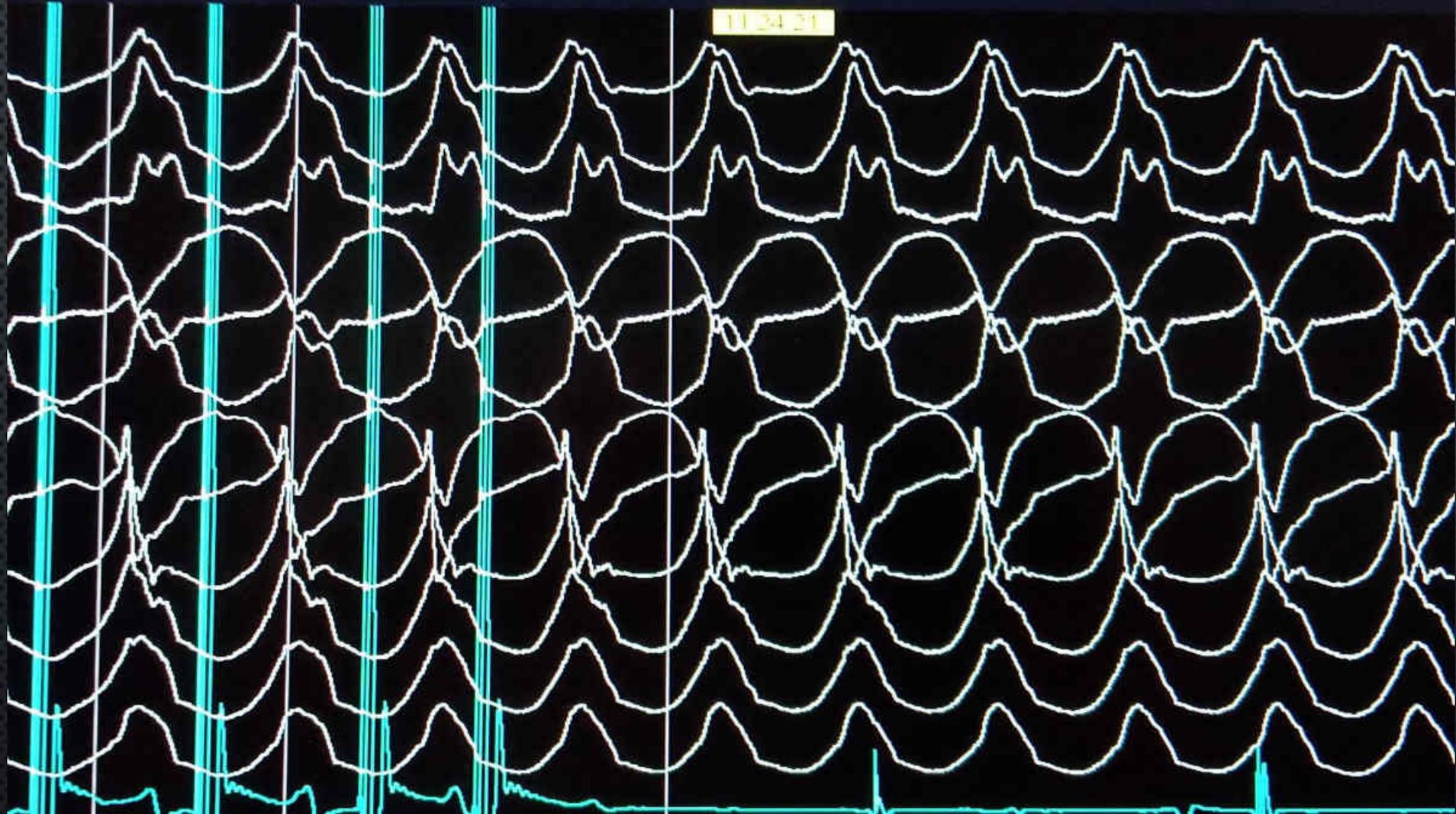
STABLE SR DURING RF

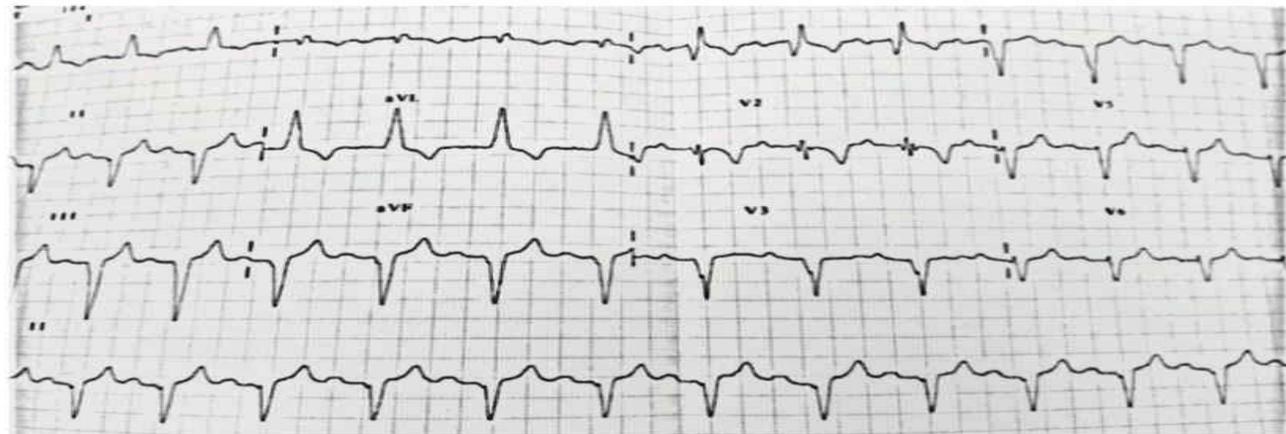
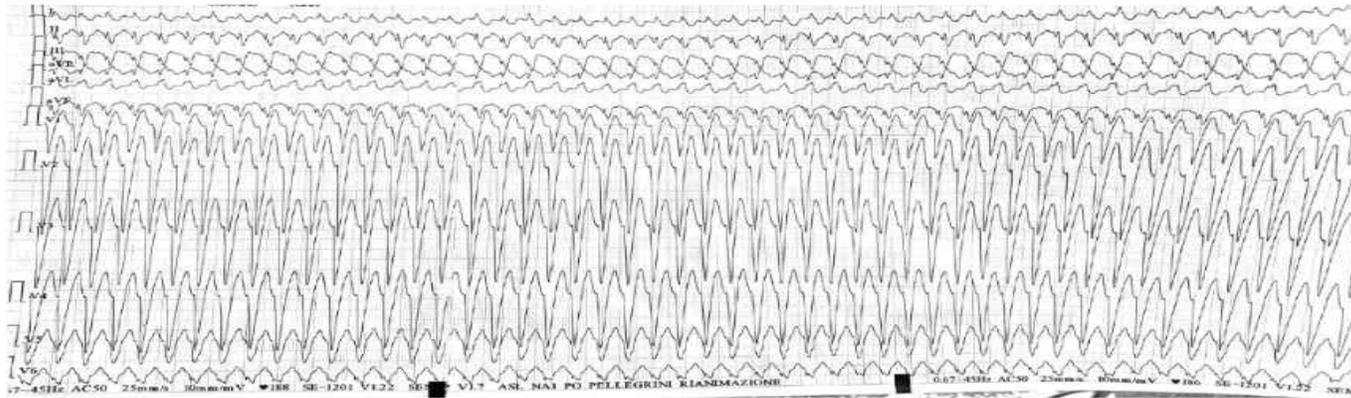
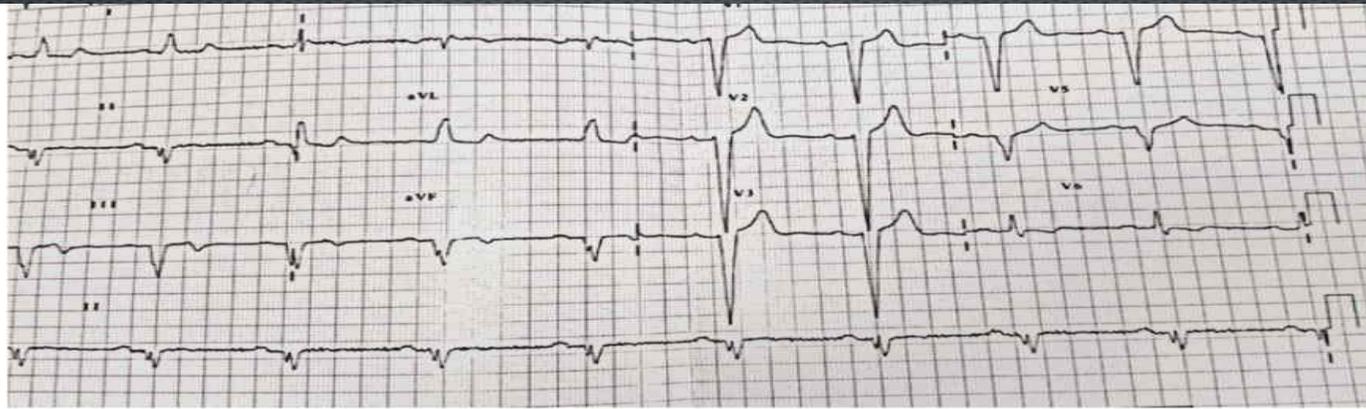


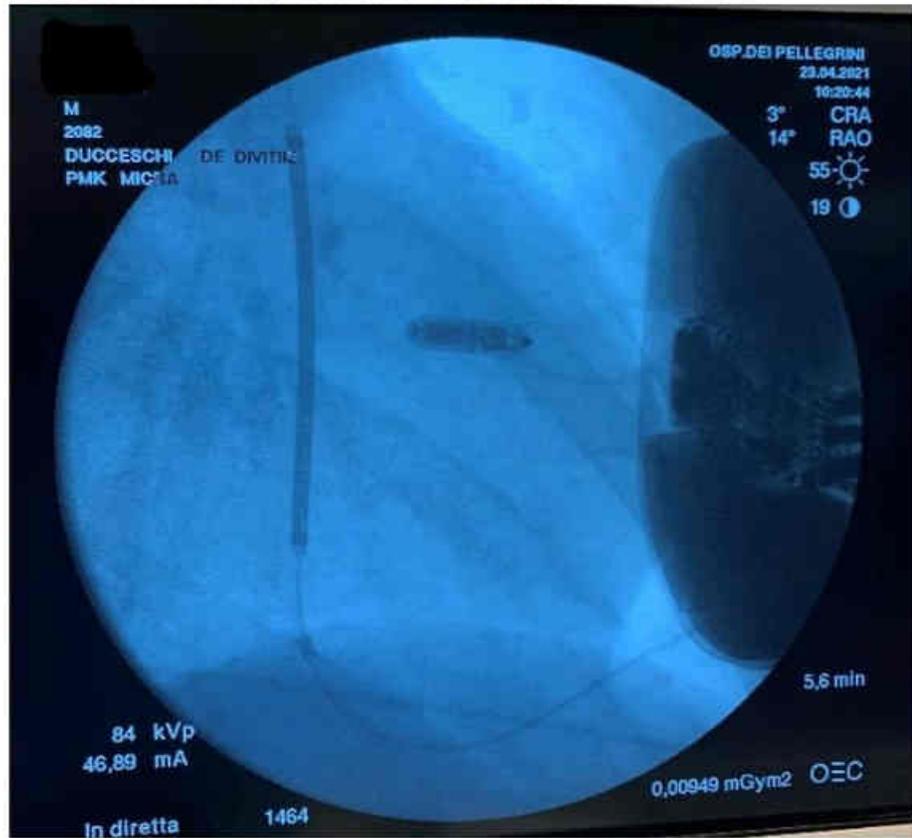
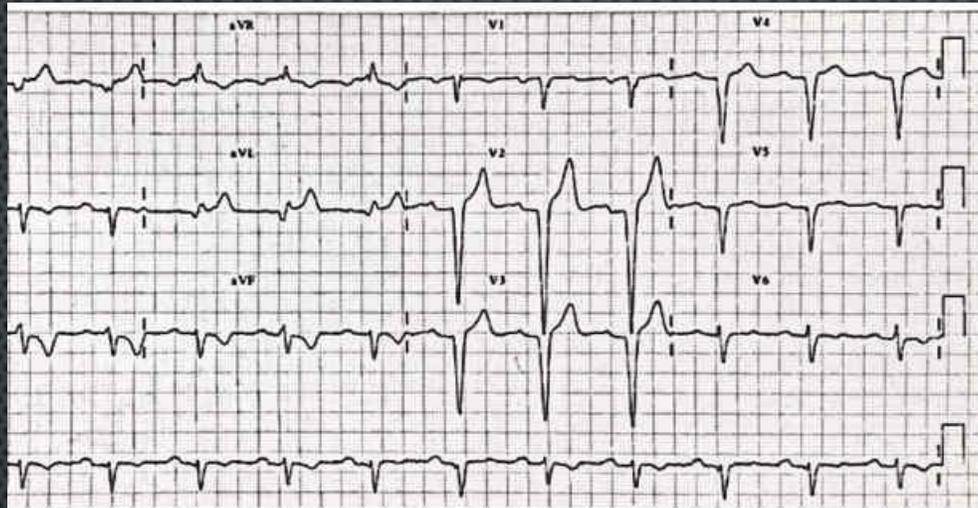
trigger | duration | real time



11:24:21



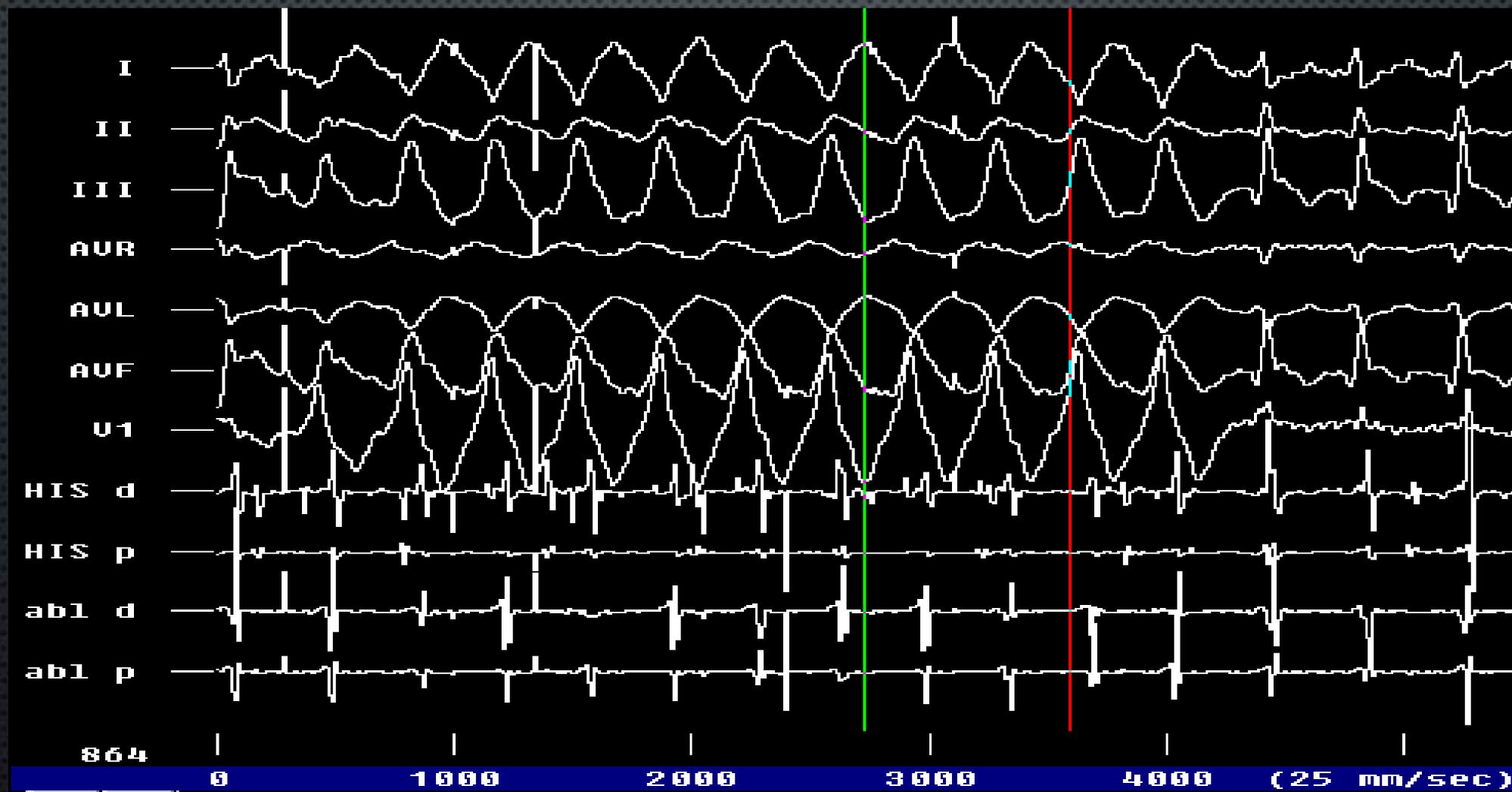




INNESCO JET PRECEDUTO DA BAV INTRAHISSIANO



OVERDRIVE VENTR → PERSISTENZA JET





INNESCO DA JET DI TV

