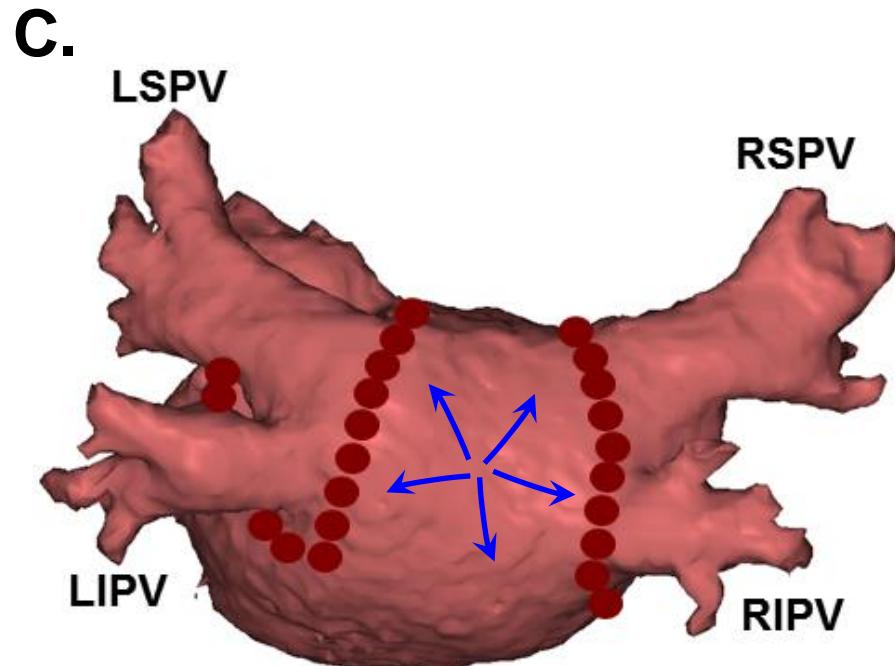
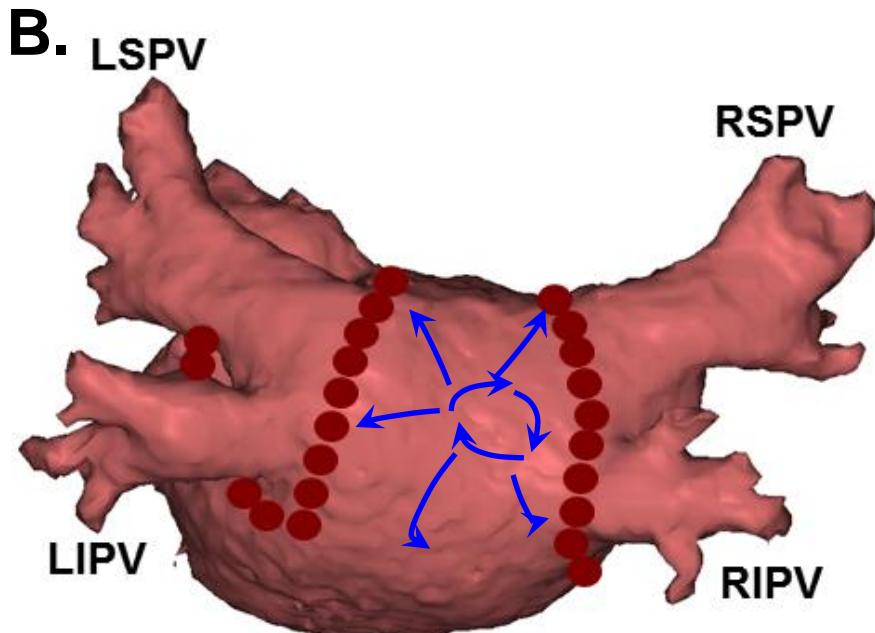
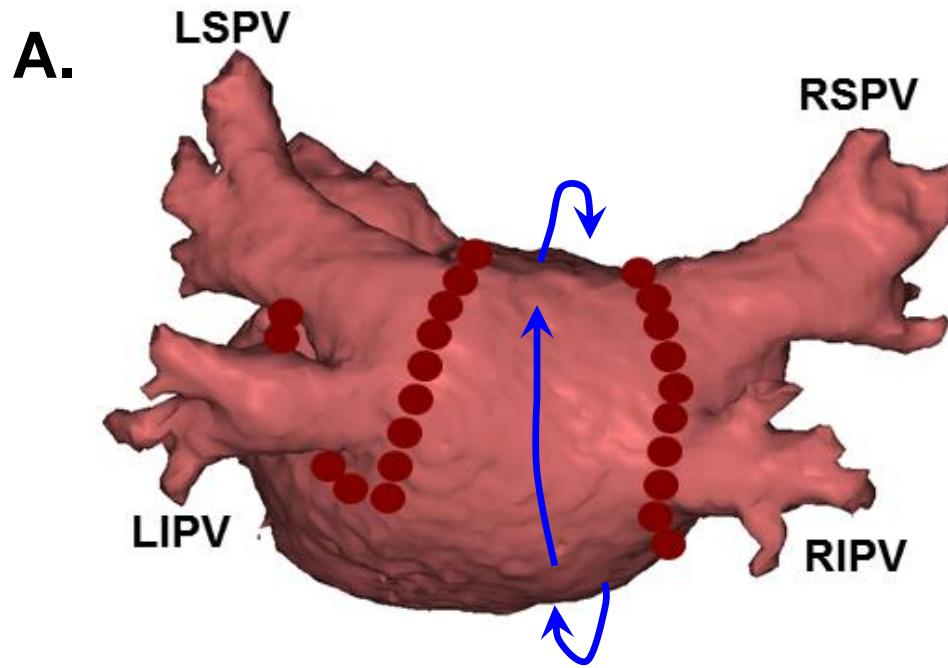
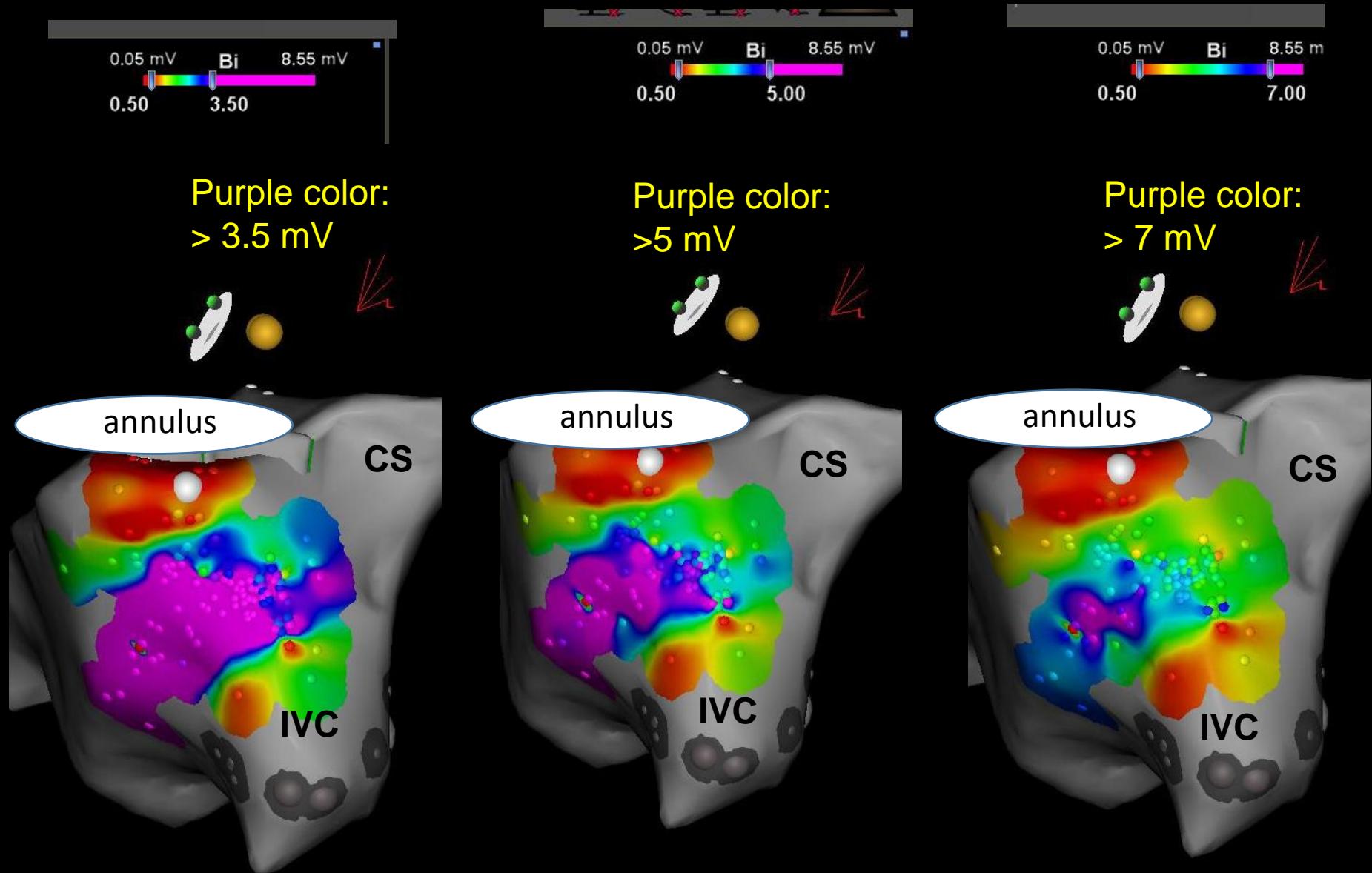


# Macro-reentry:

## “Focal” pattern (centrifugal):



## **Figure 10.1A**

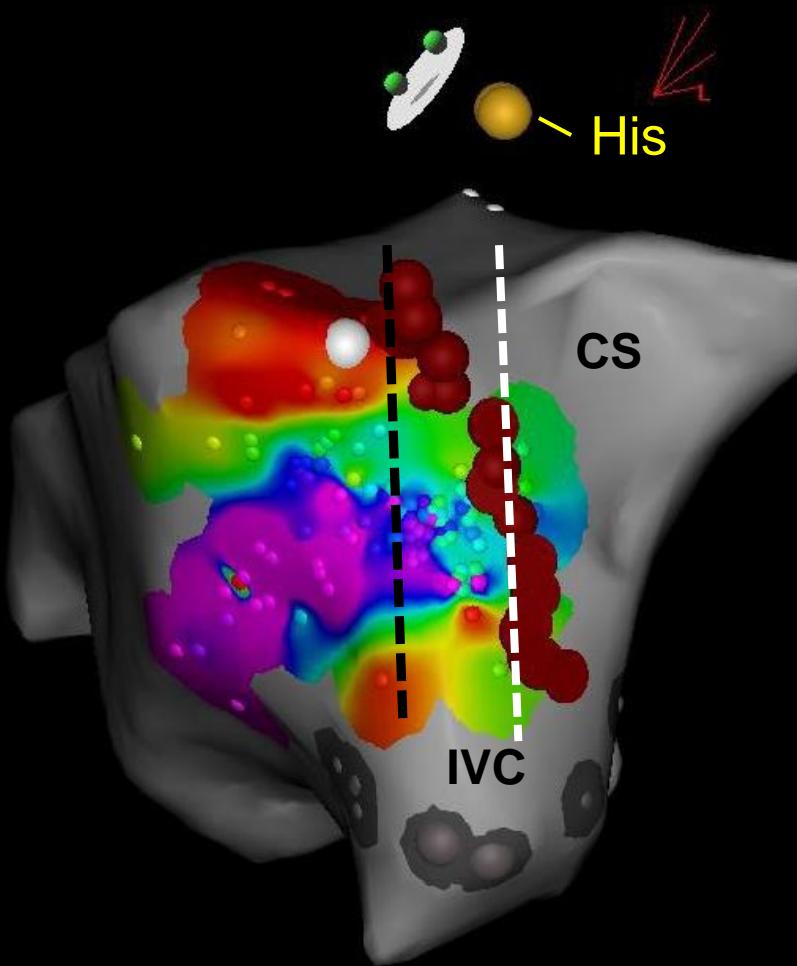


LAO Caudal View

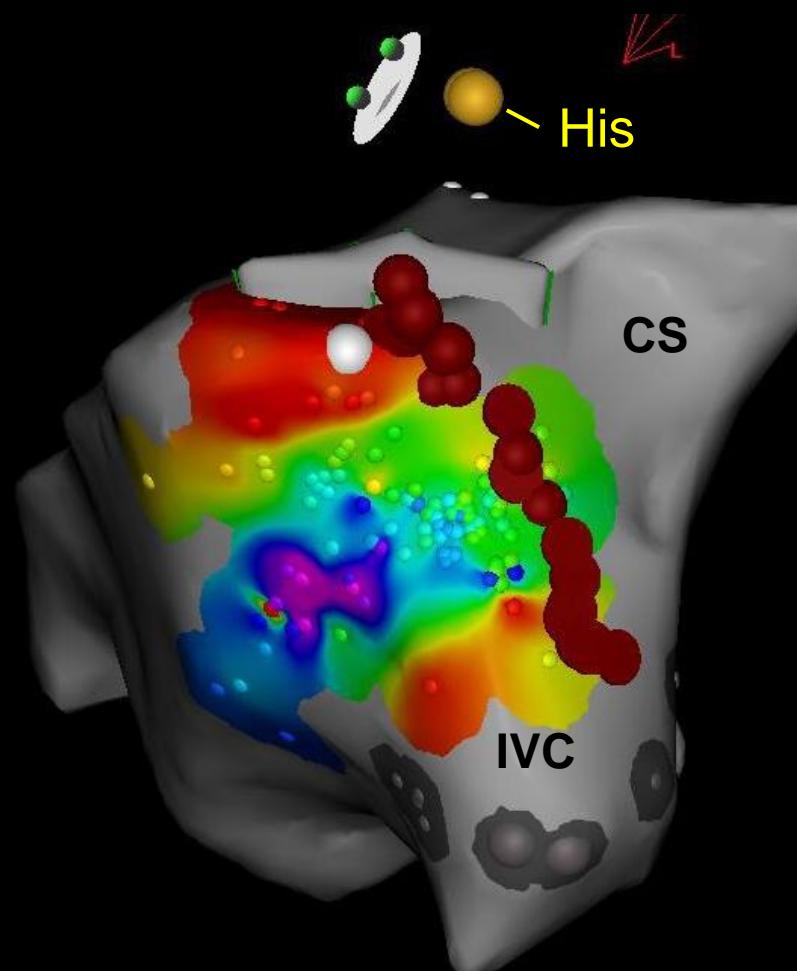
Figure 10.2A



Purple color: > 5 mV



Purple color: > 7 mV



LAO Caudal View

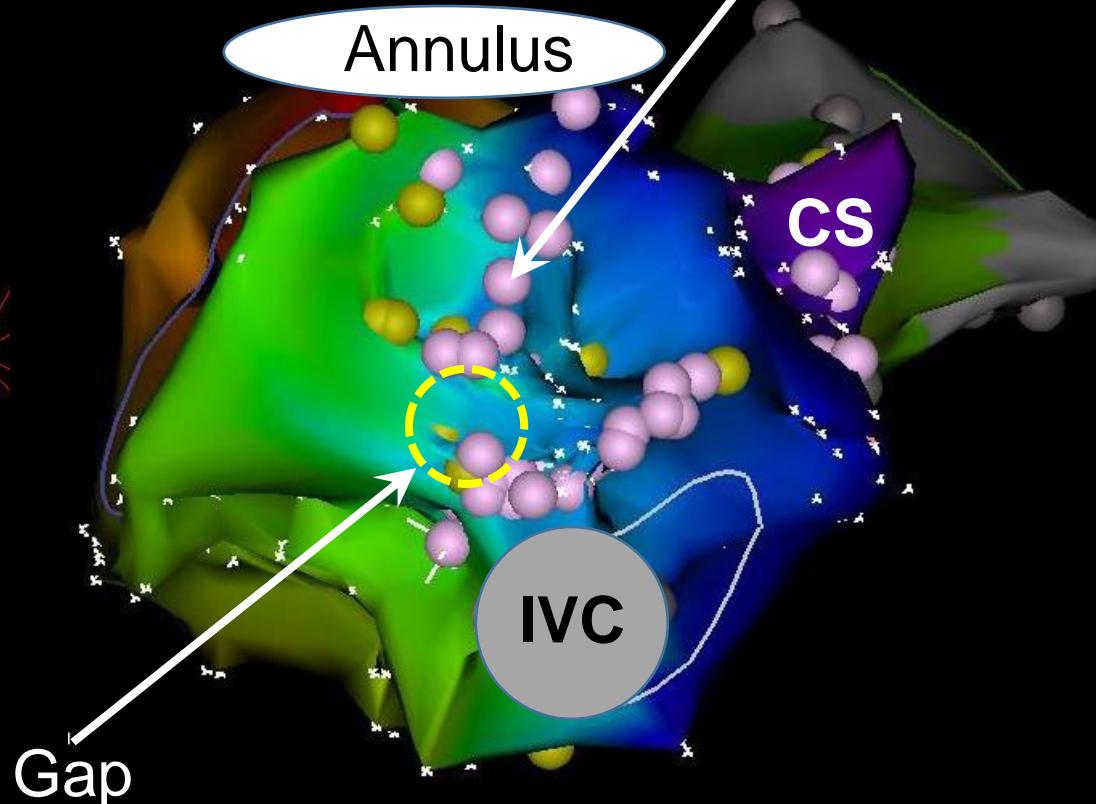
Figure 10.2B



RAO View

-200 ms LAT 59 ms

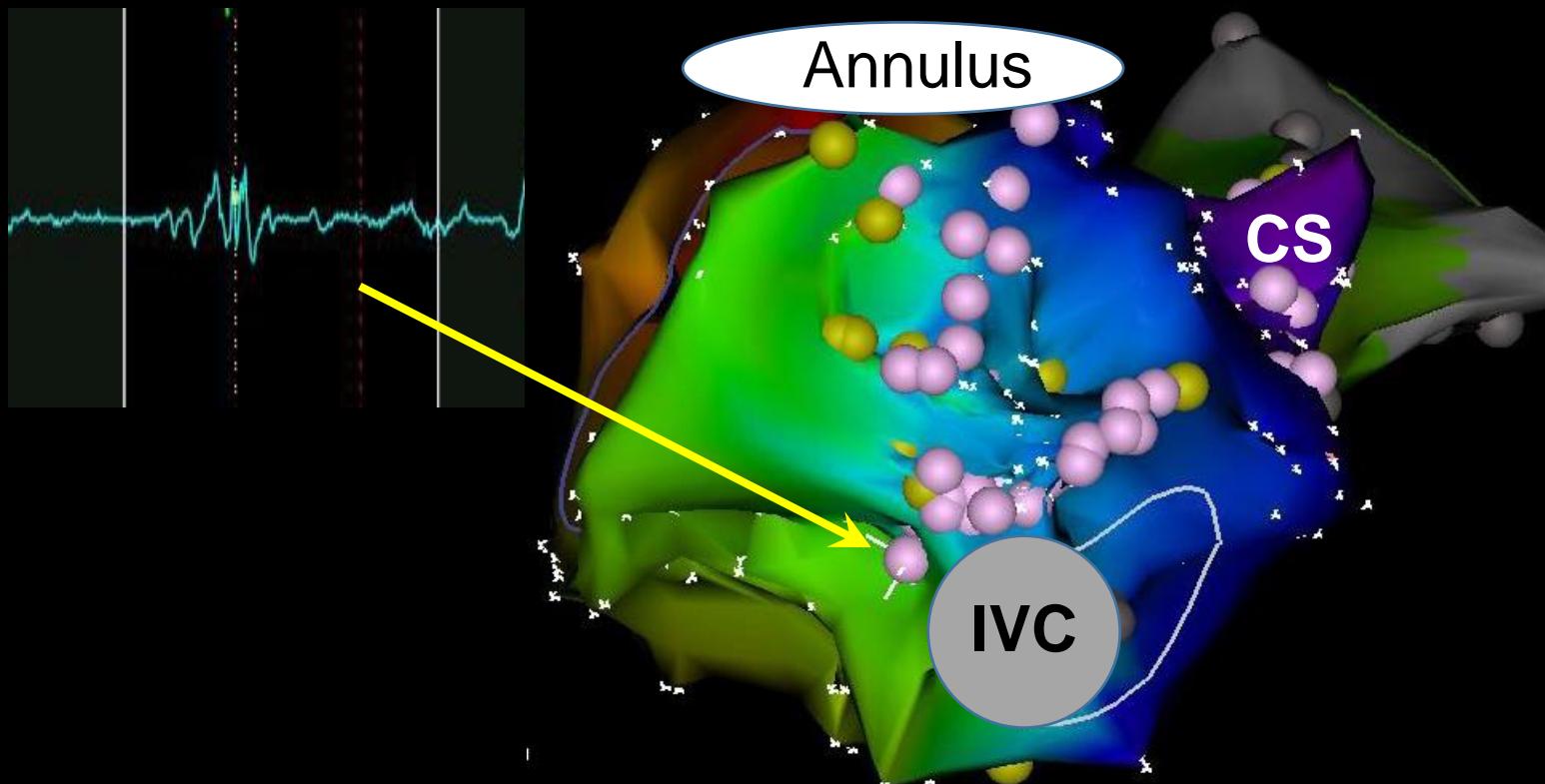
A horizontal color bar at the top of the image shows a gradient from red to purple, representing activation latency. The text "-200 ms" is at the left end, "LAT" is in the center, and "59 ms" is at the right end.



LAO Caudal View

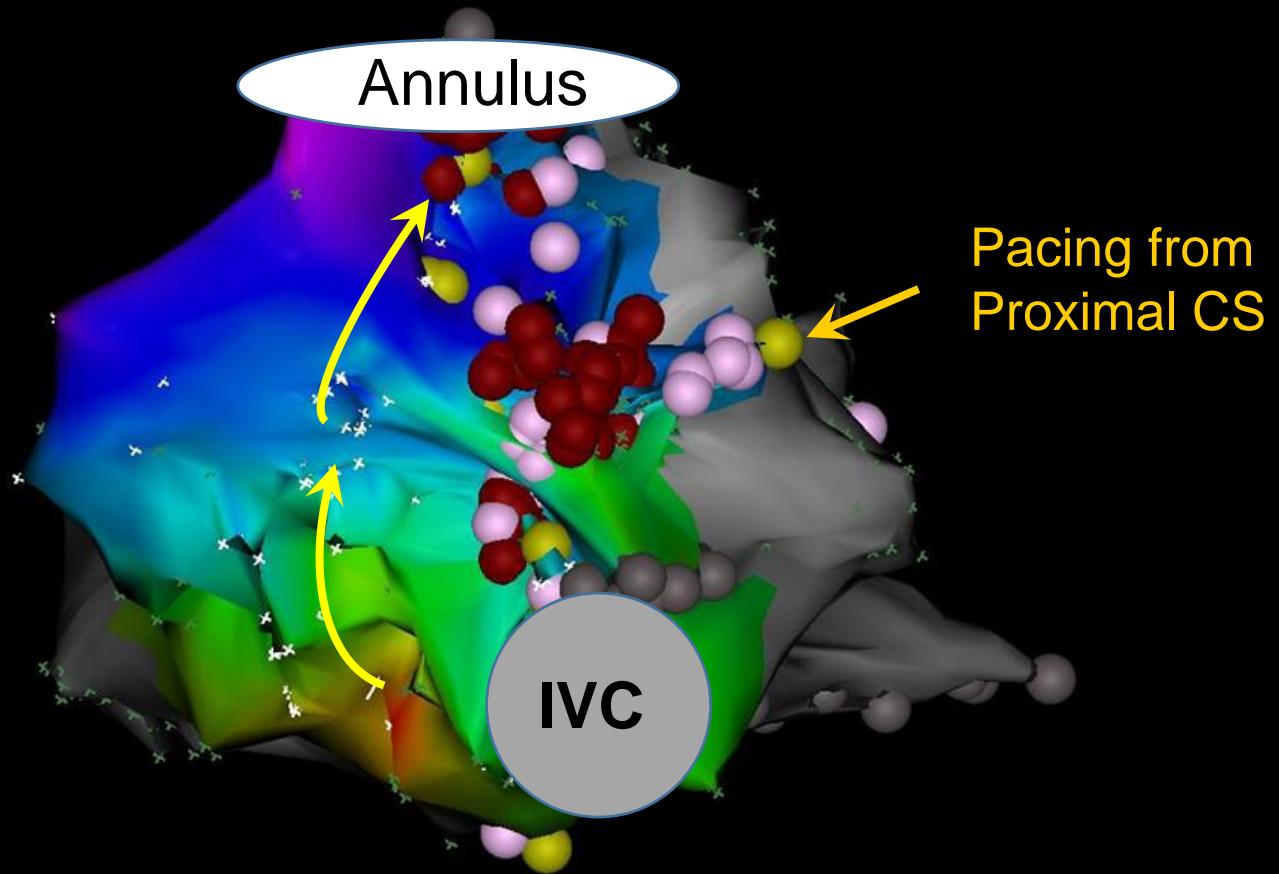
Figure 10.3A

-200 ms LAT 59 ms



LAO Caudal View

Figure 10.3B



LAO Caudal View

Figure 10.3C

## Focal AT from base of LAA, next to a line of block

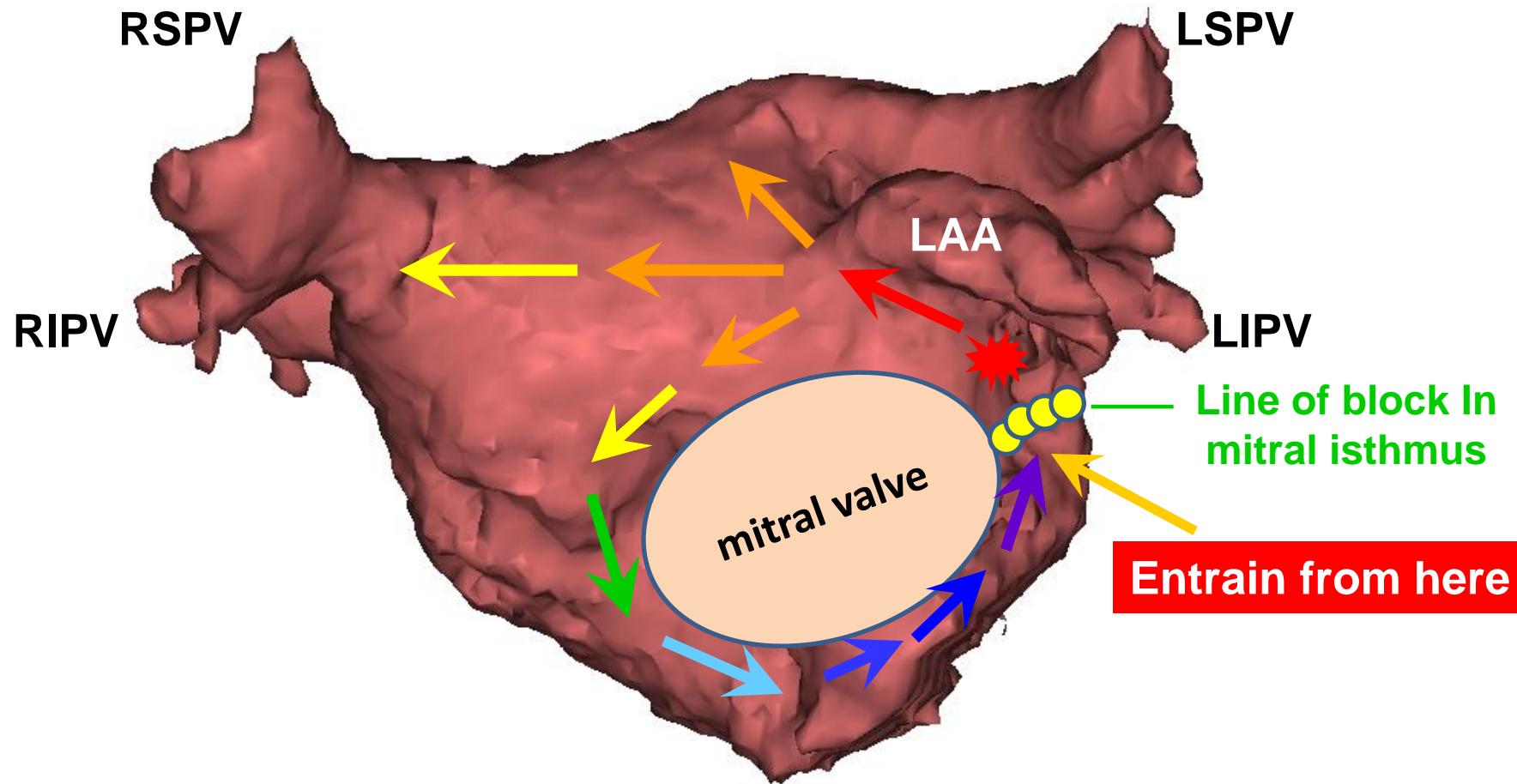
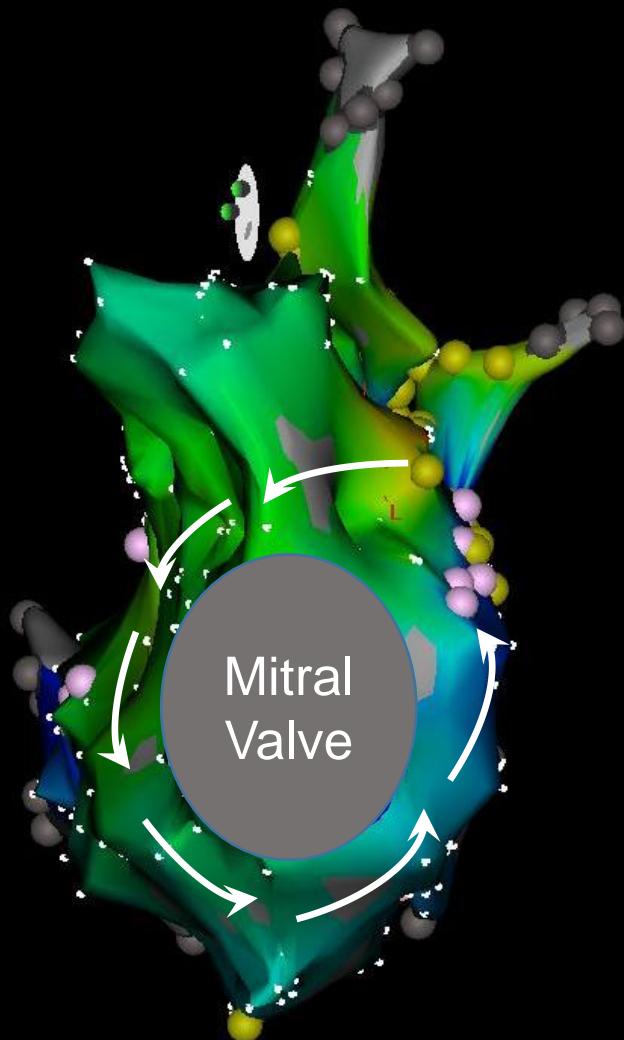
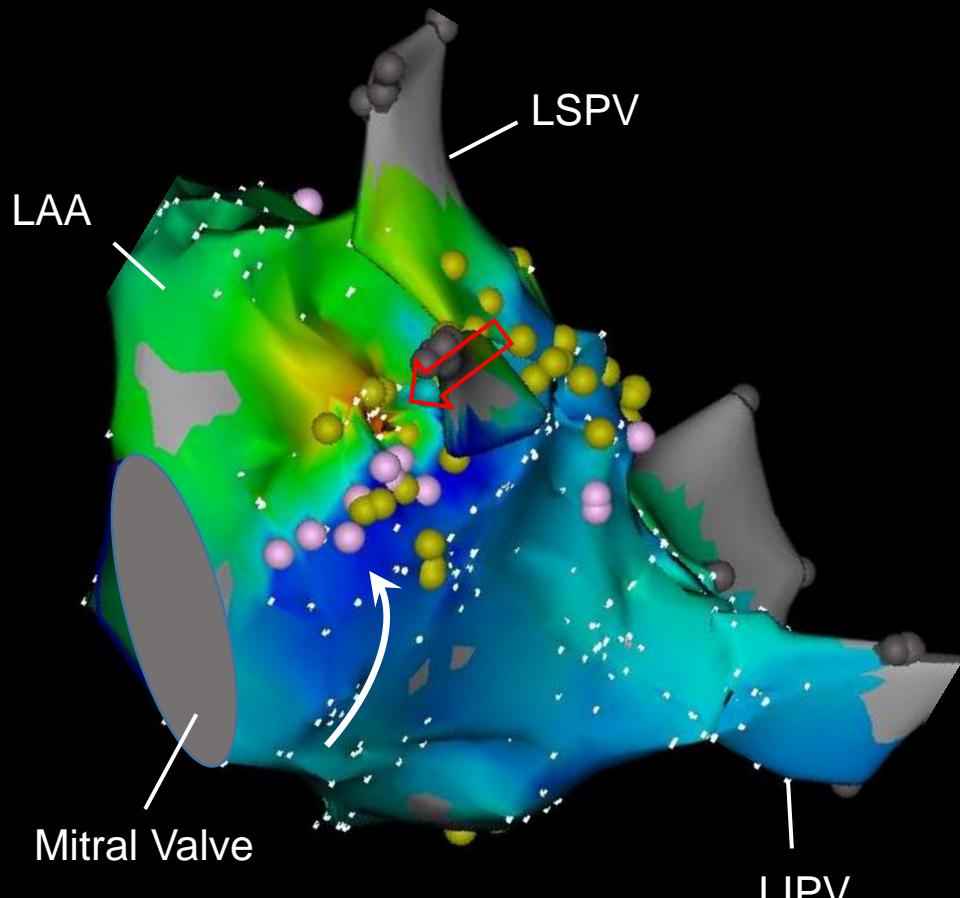


Figure 10.4A.

-196 ms LAT 65 ms

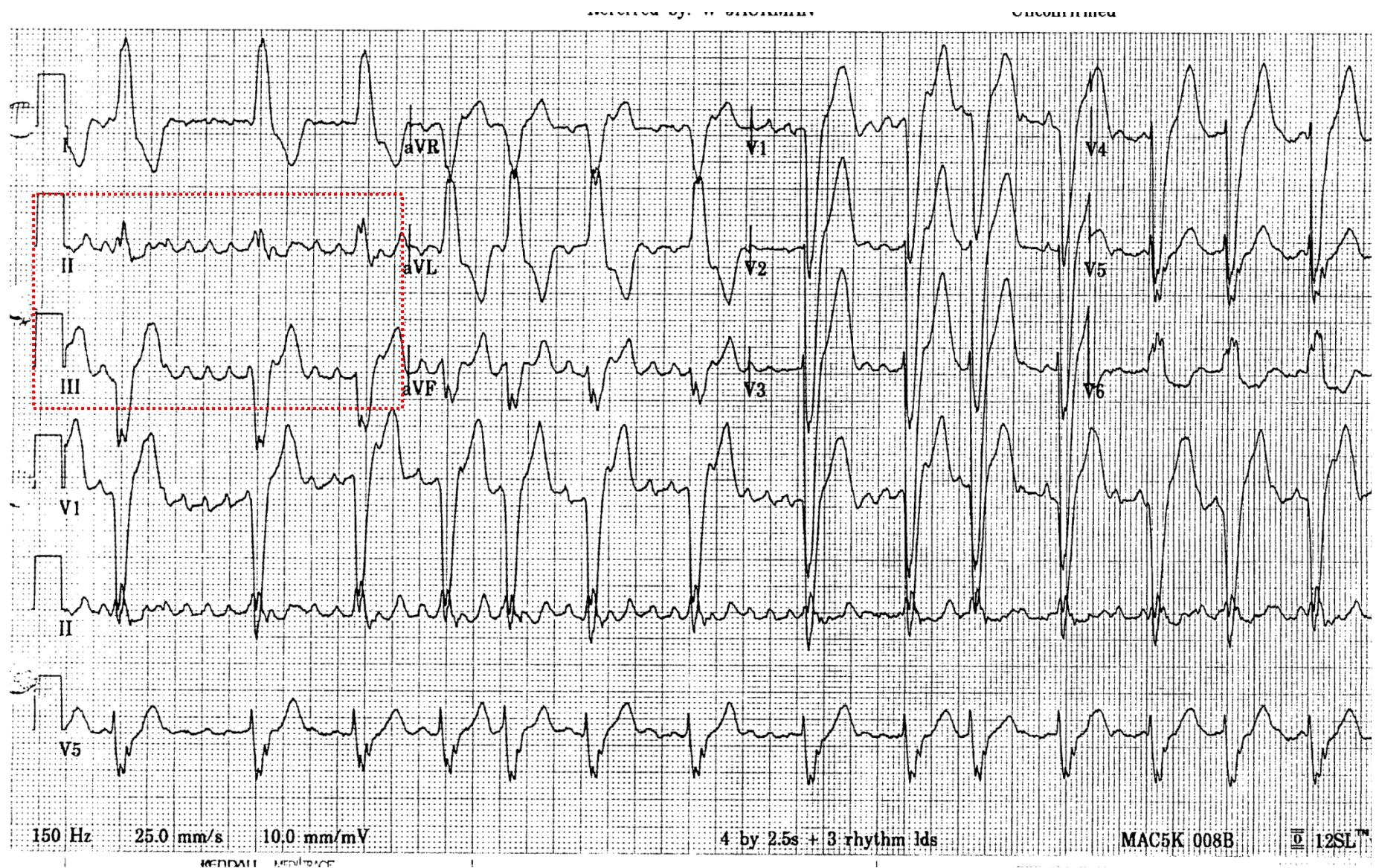


LAO Caudal View

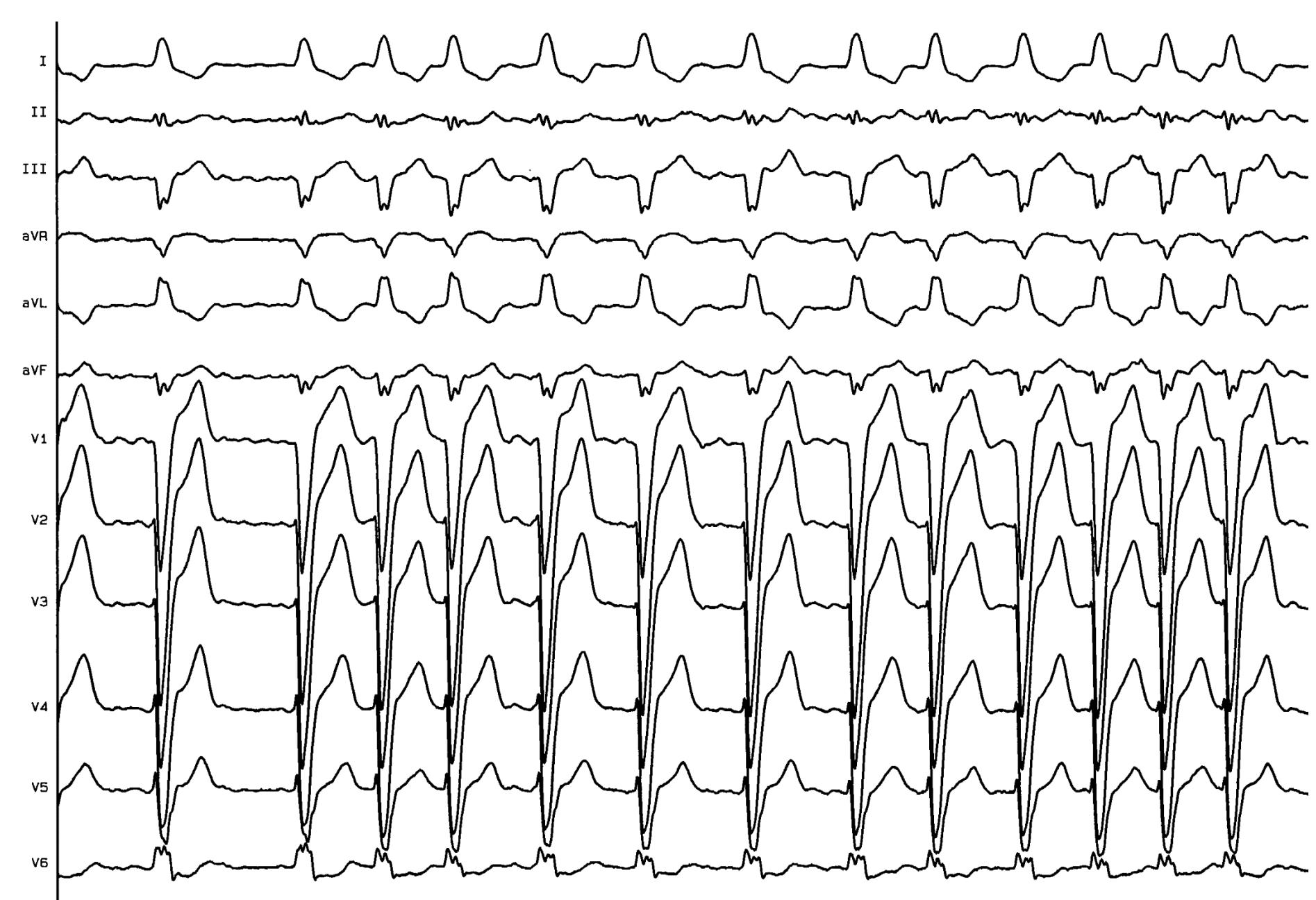


Left Lateral Caudal View

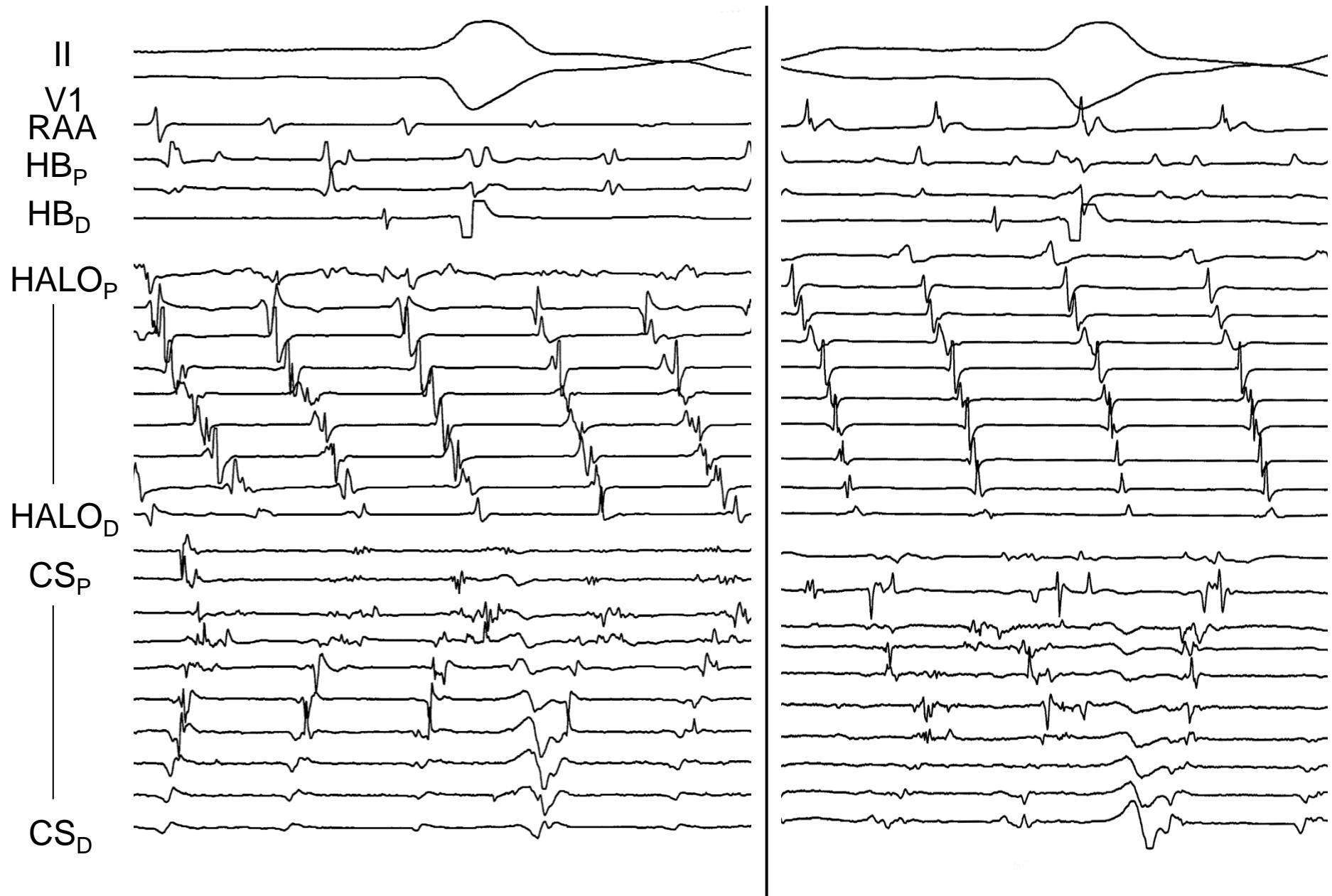
Figure 10.4B.



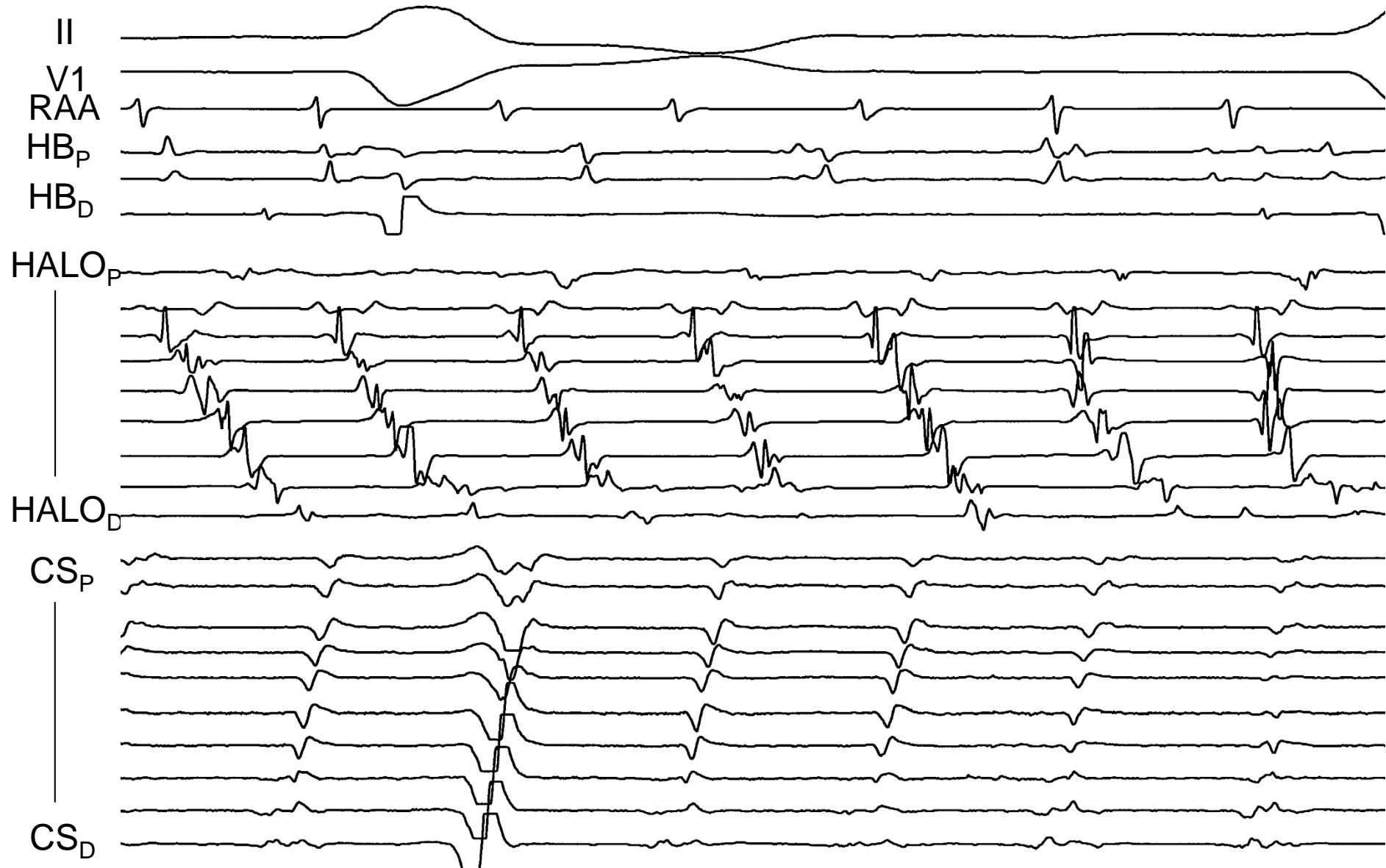
**Figure 10.5A.**



**Figure 10.5B.**

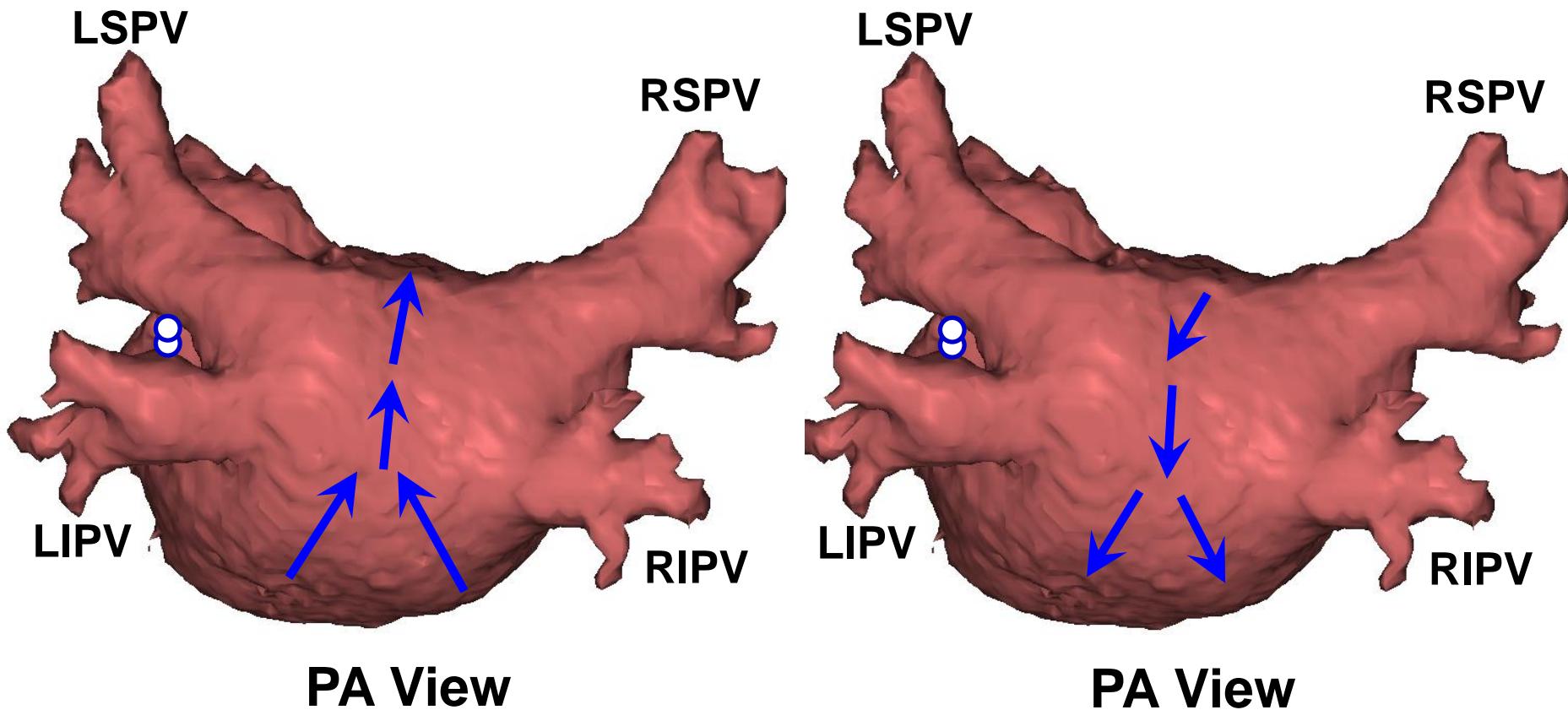


**Figure 10.5C.**



**Figure 10.5D.**

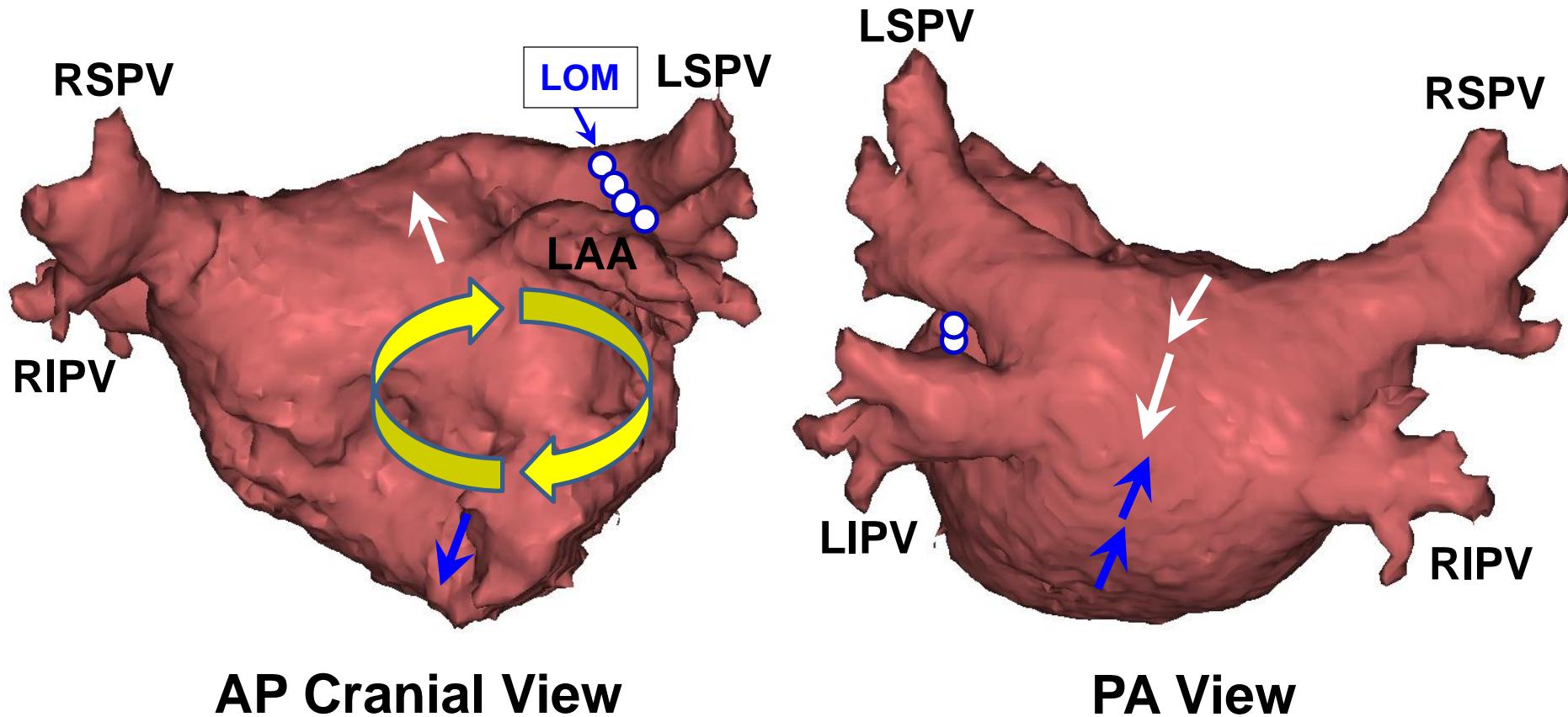
## Roof-dependent Macro-reentrant AT



Activation of LA posterior wall:  
high → low or low → high

Figure 10.6A.

## Mitral Annular AT



Collision of wave front  
on LA posterior wall

Figure 10.6B.

Entrainment  
at LA Roof  
***Short PPI***

LSPV

LIPV

AT CL  
215 ms

RSPV

RIPV

Entrainment  
at isthmus  
***Short PPI***

155  
- 60

Double Potentials

PA Projection

1.0 cm

Courtesy of Drs. Jackman and Nakagawa

**Figure 10.6C.**

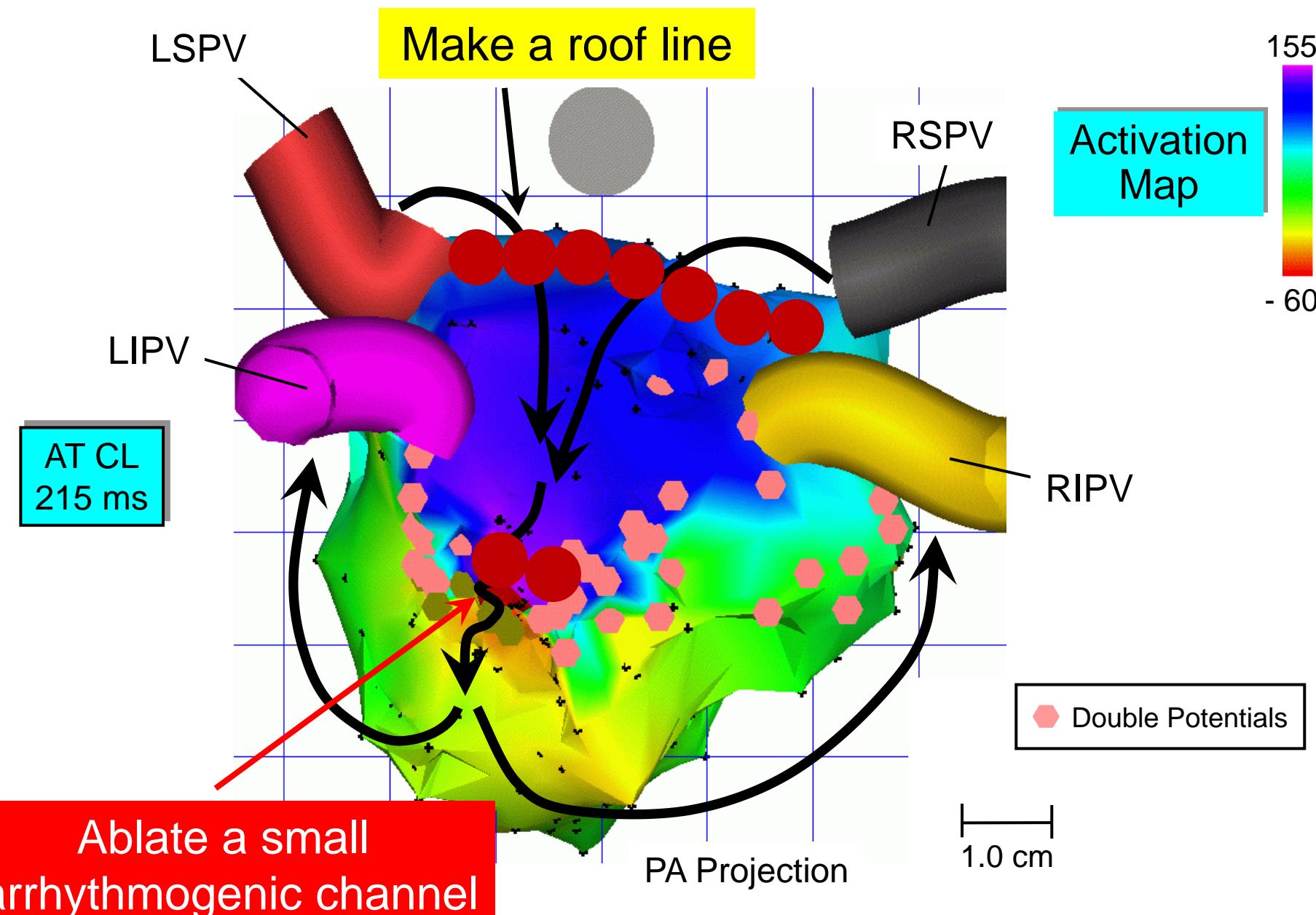


Figure 10.6D.

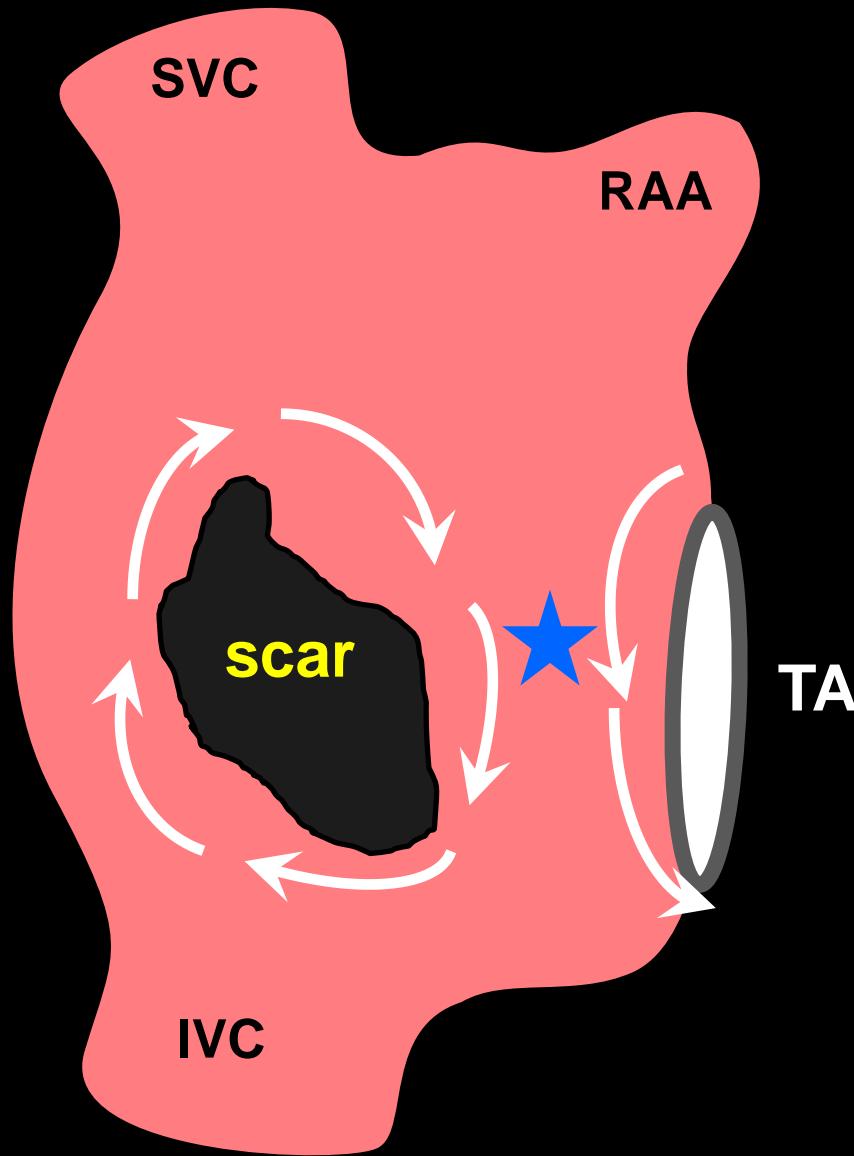
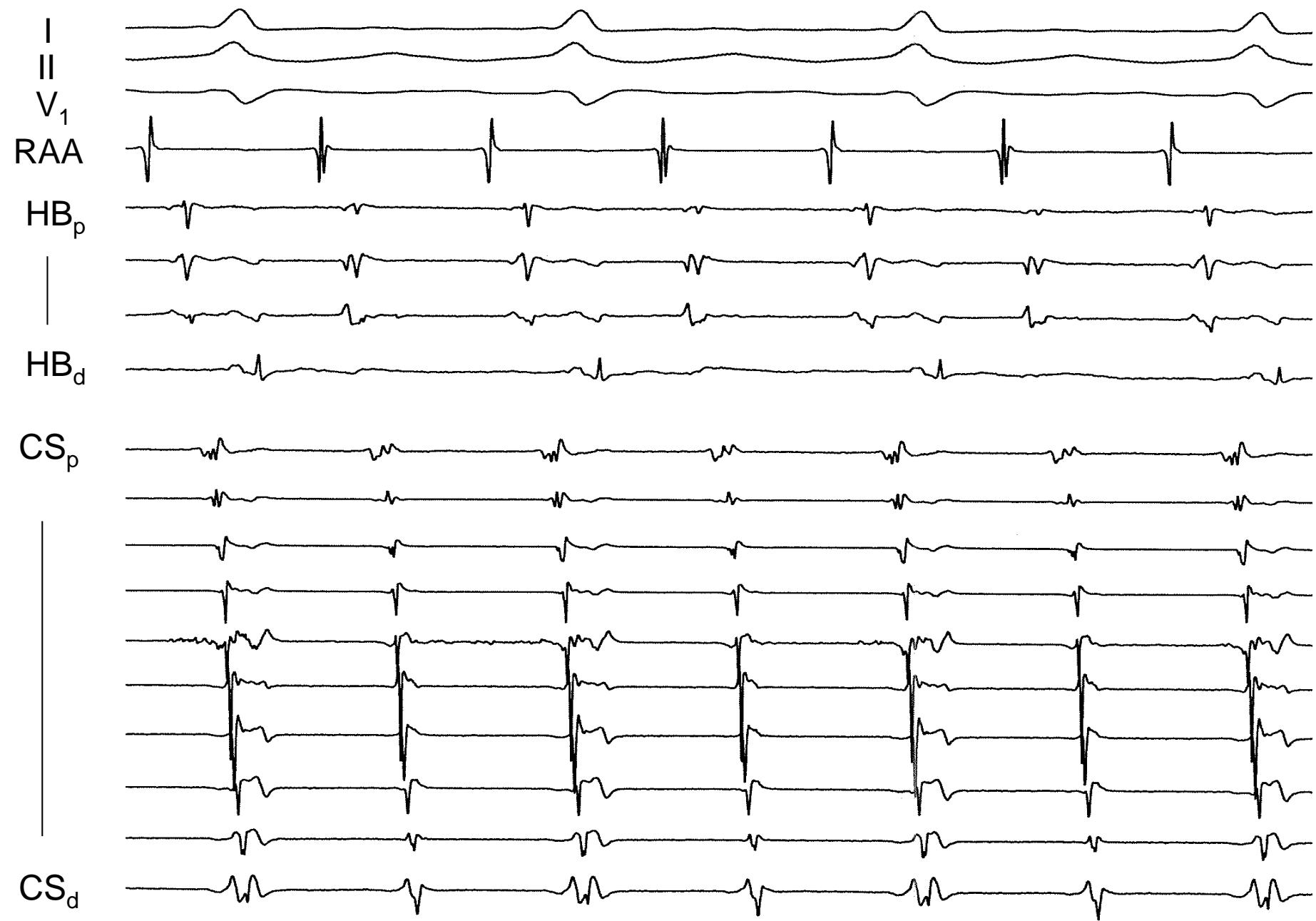
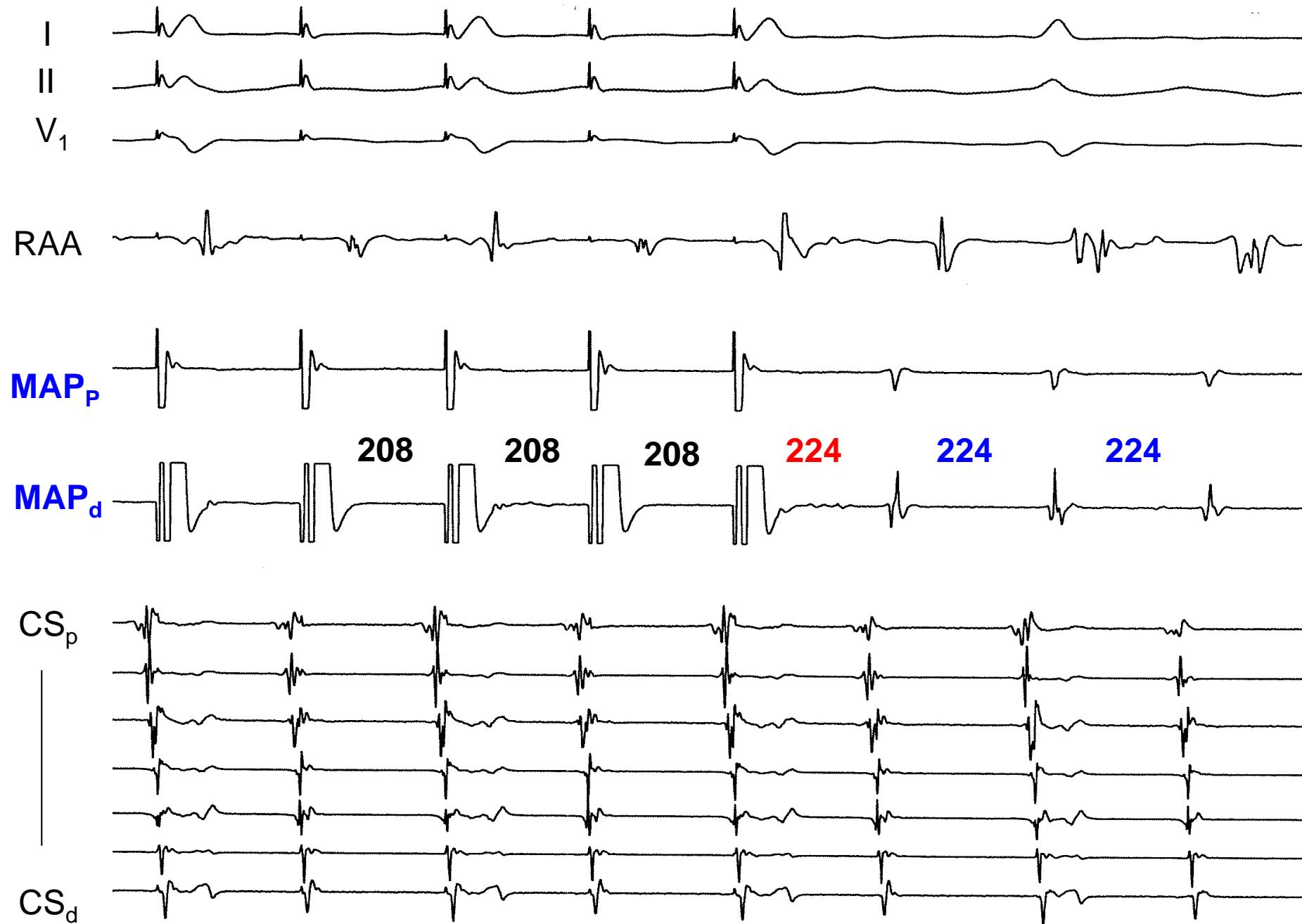


Figure 10.7A.



**Figure 10.7B.**

200 ms



**Figure 10.7C.**

200 ms

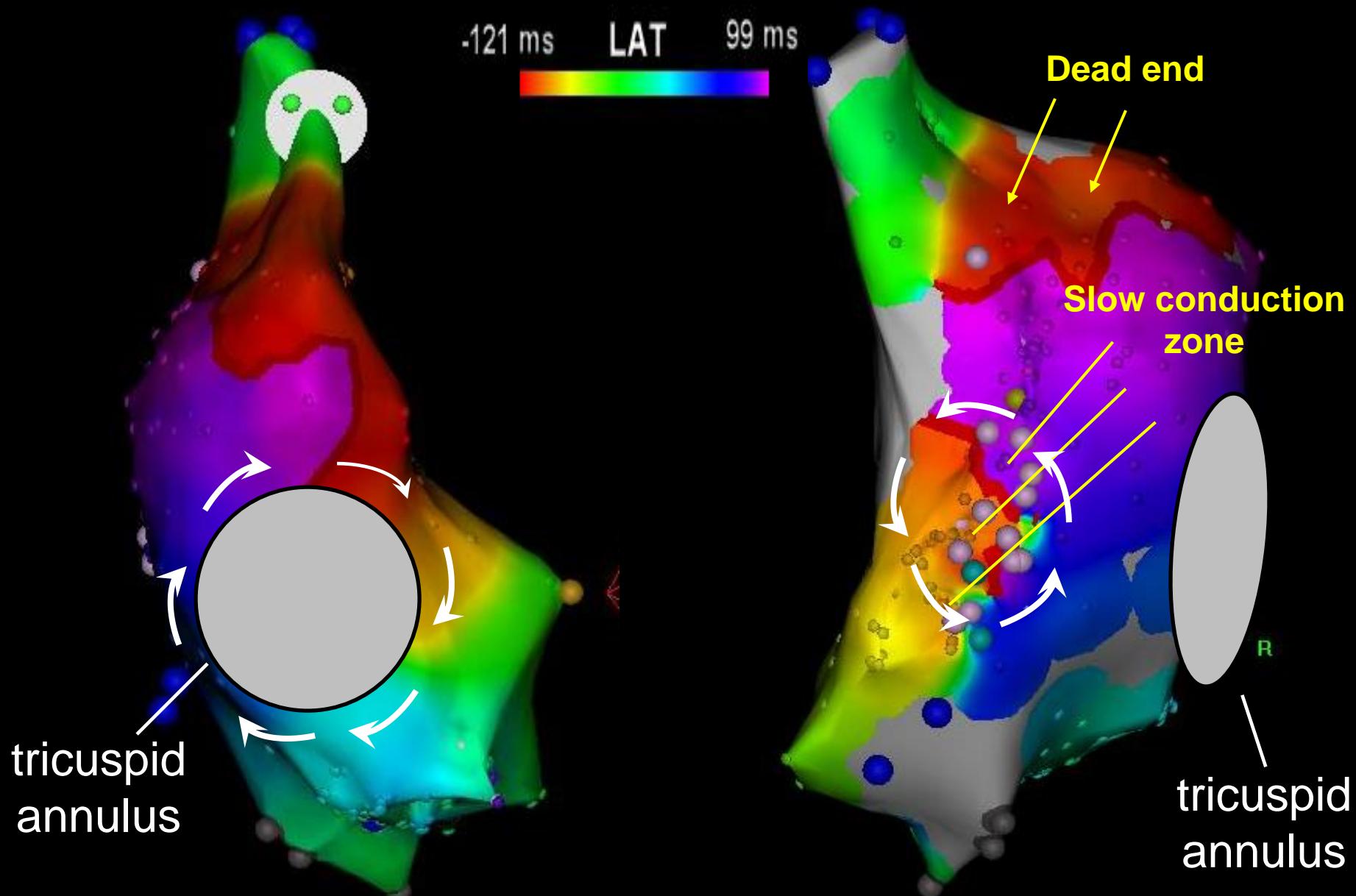


Figure 10.7.D. AP View

Rt Lateral

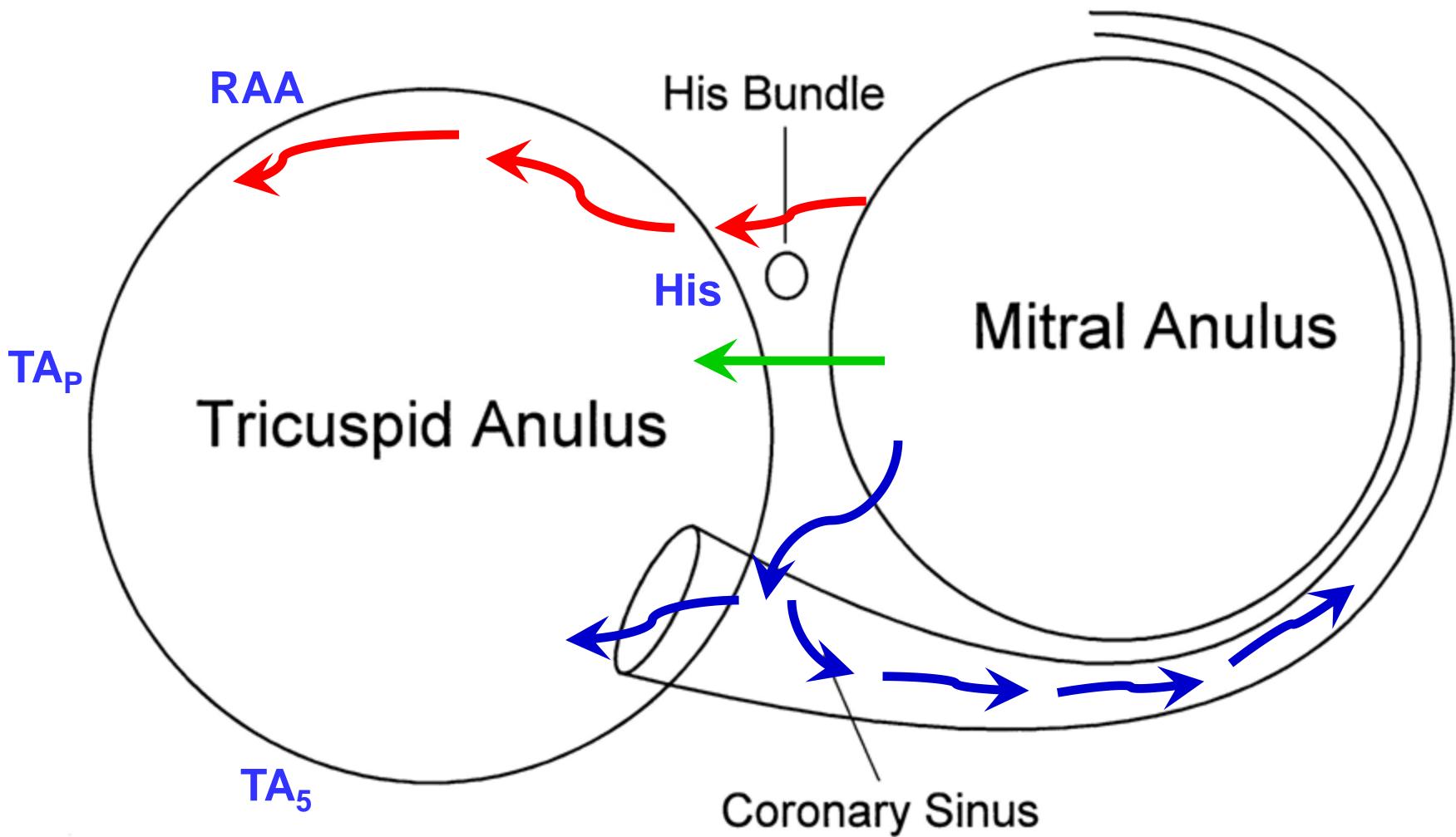


Figure 10.8A.

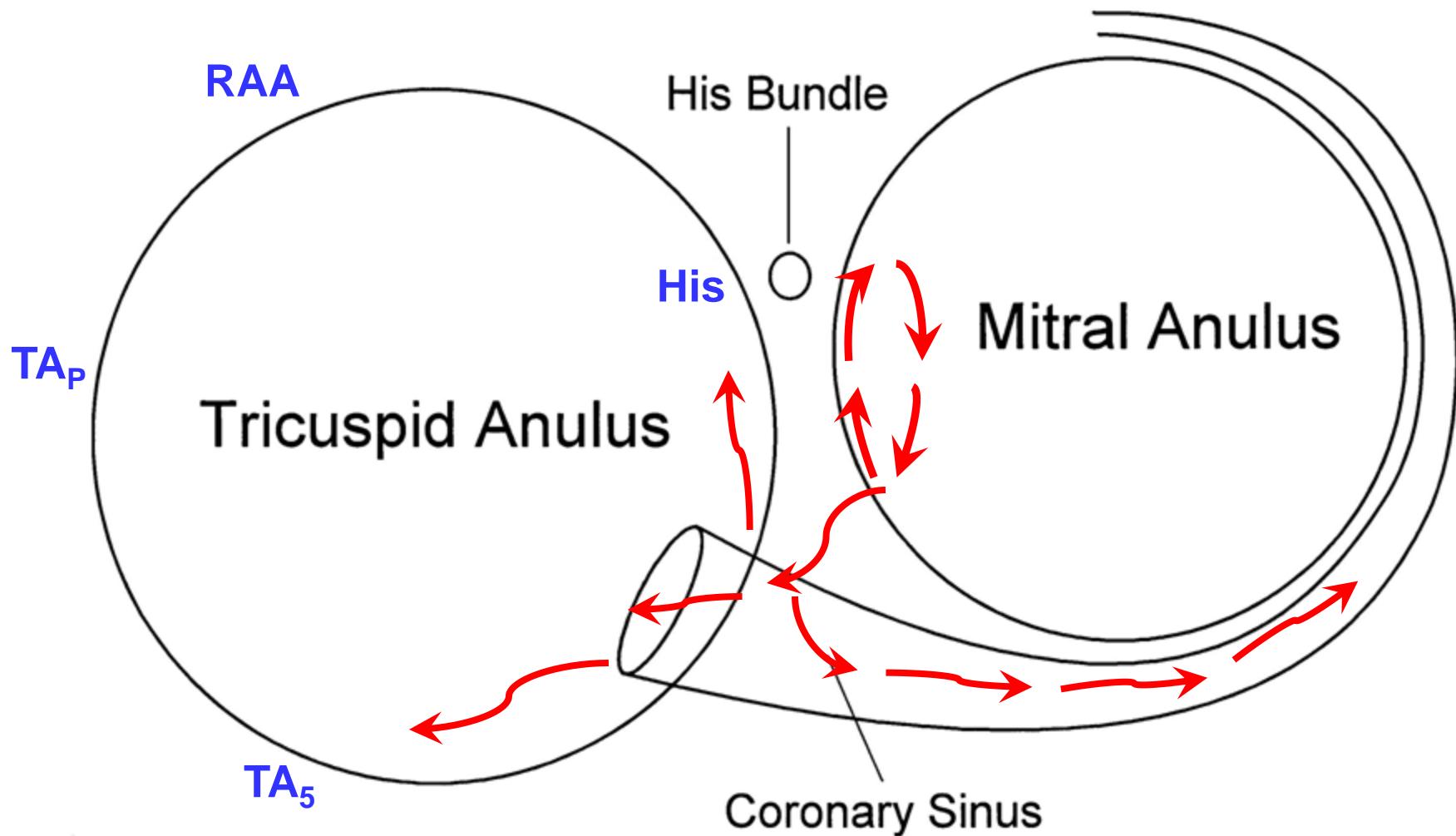


Figure 10.8B.

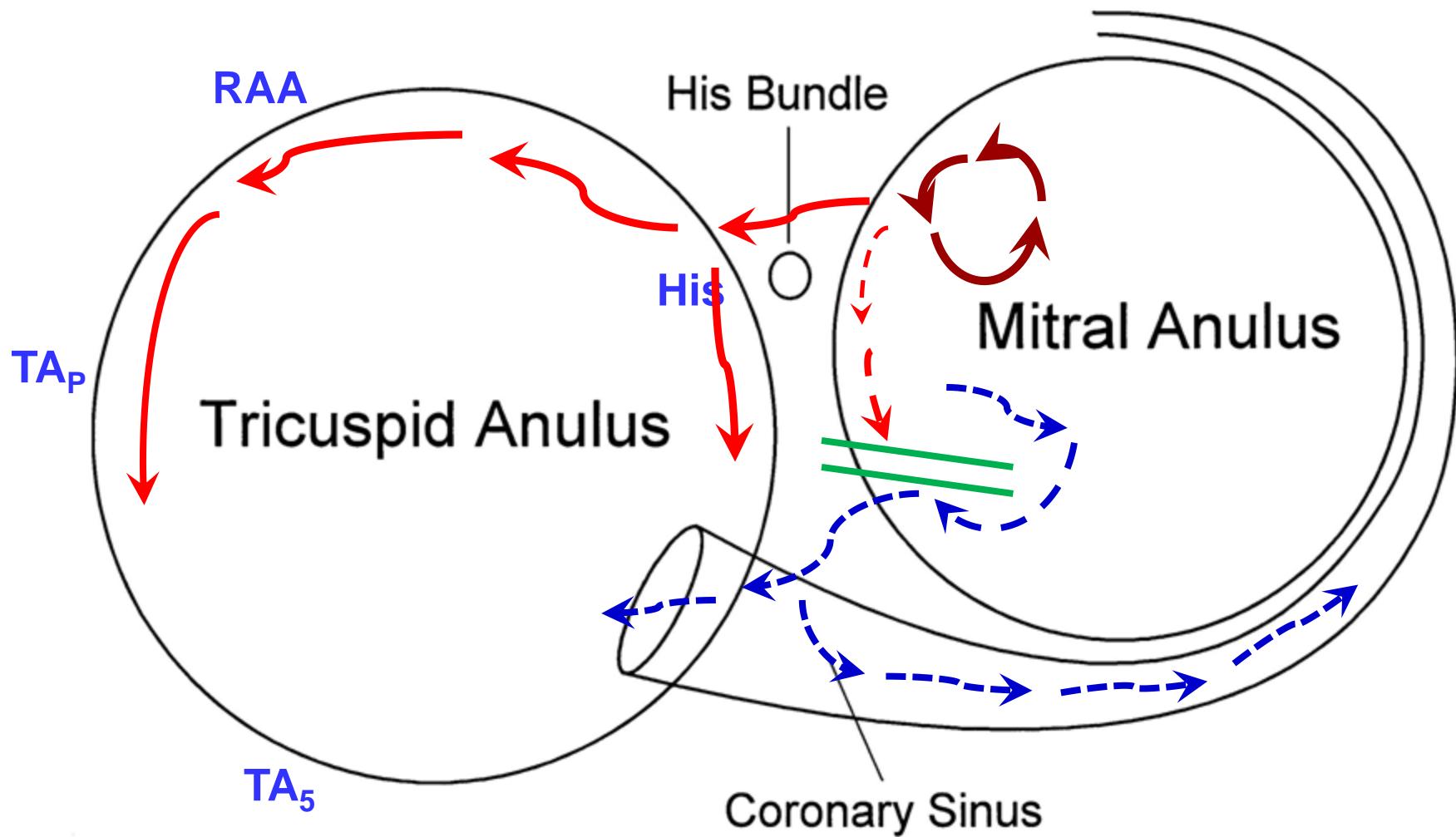
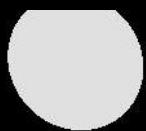


Figure 10.8C.

00000



-100 ms LAT 154 ms

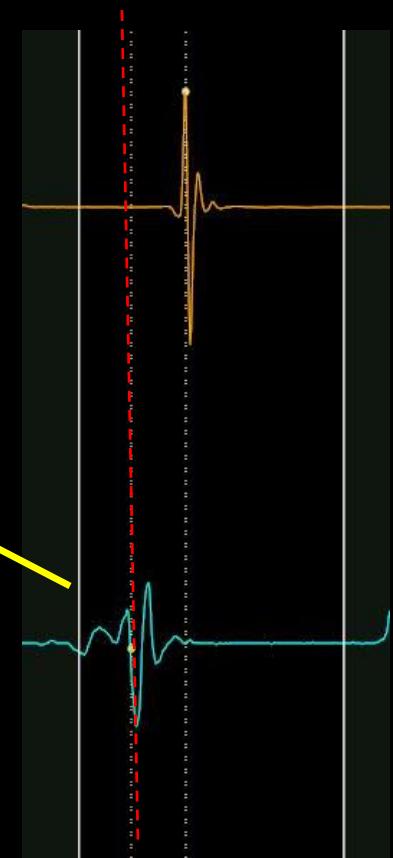
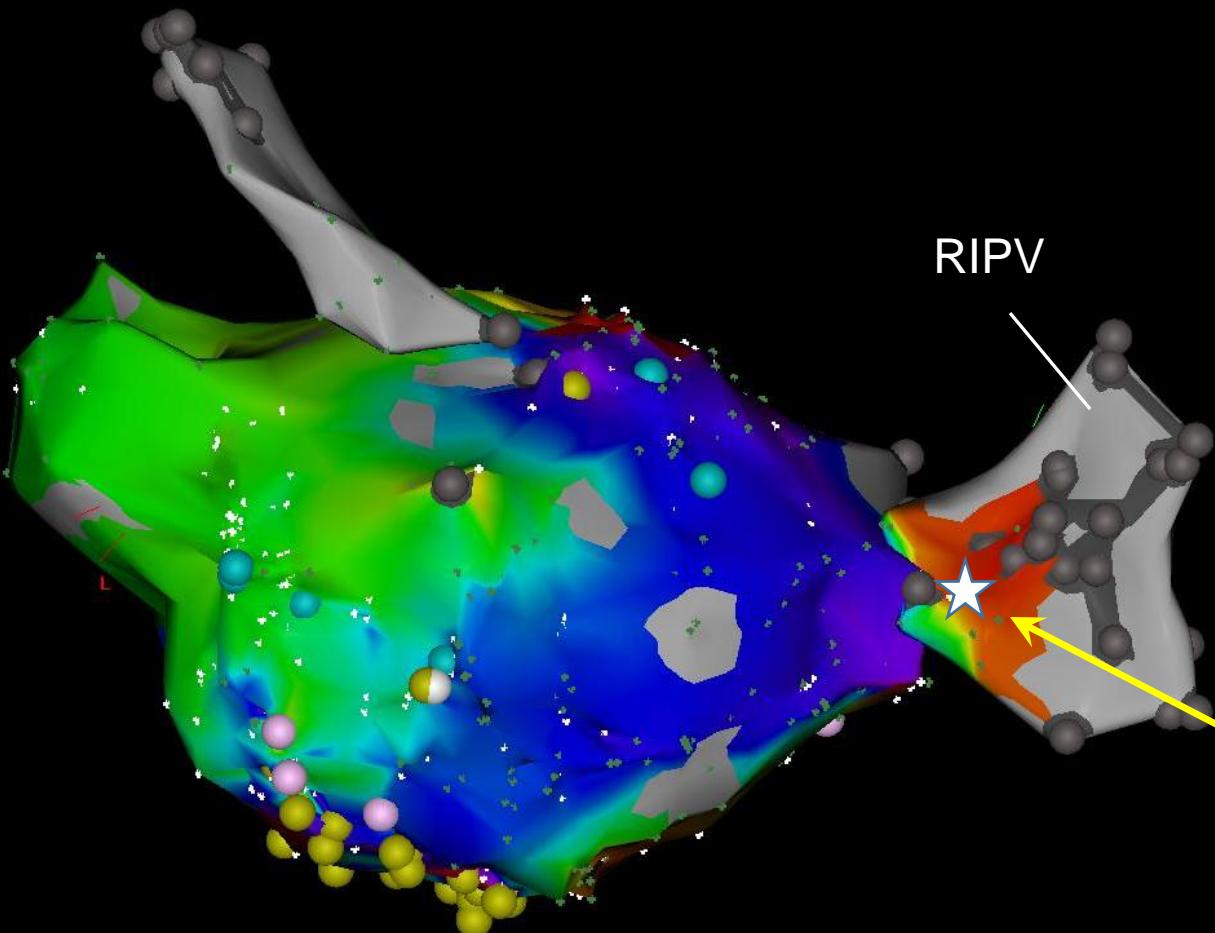
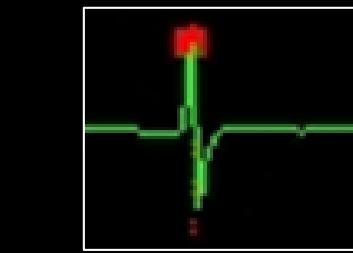
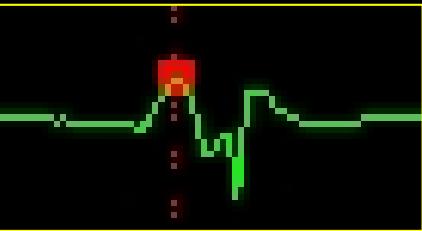
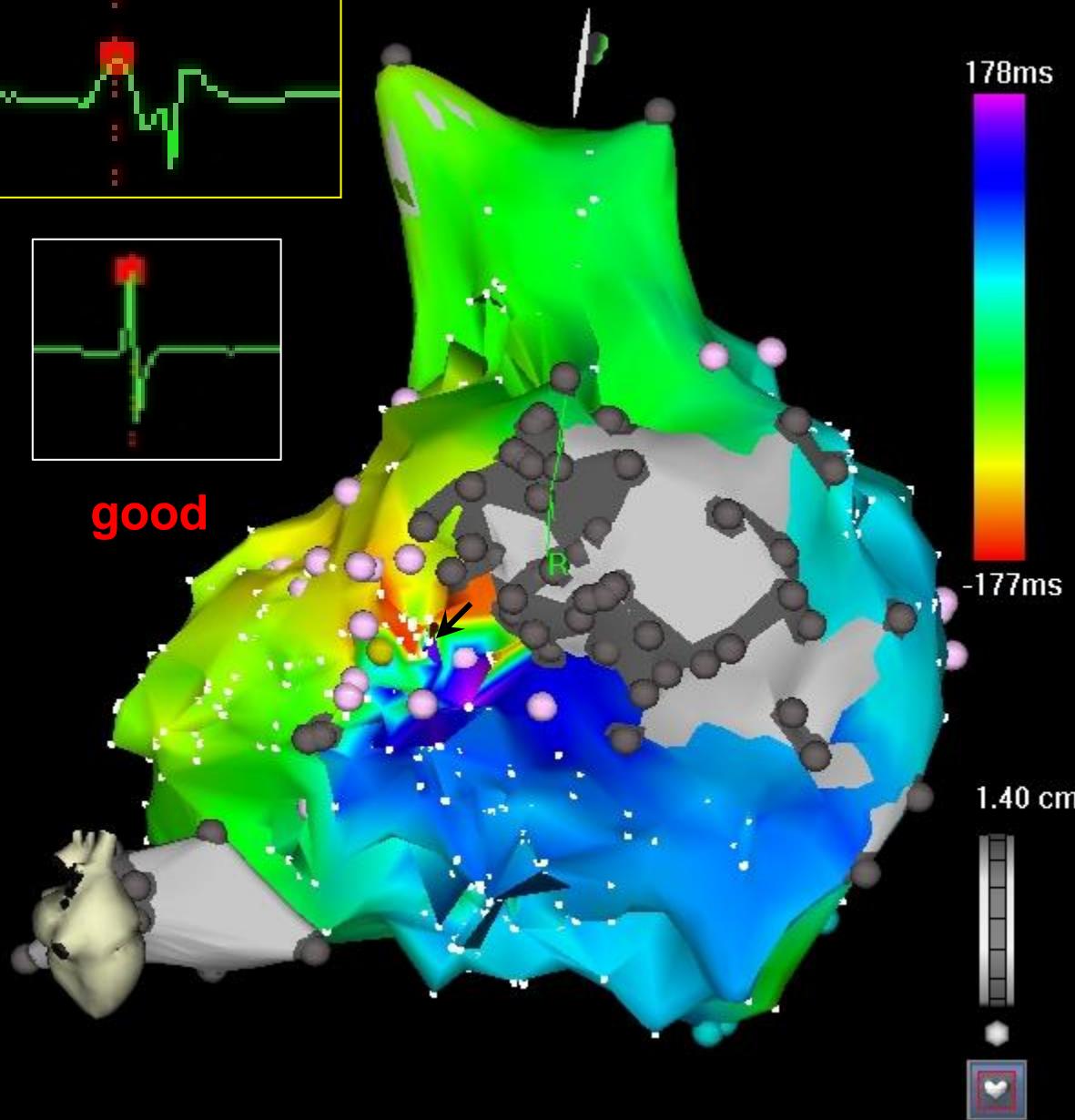


Figure 10.8D.

**bad**



**good**



178ms

-177ms

1.40 cm

-165

165

II

R1-R2

M3-M4

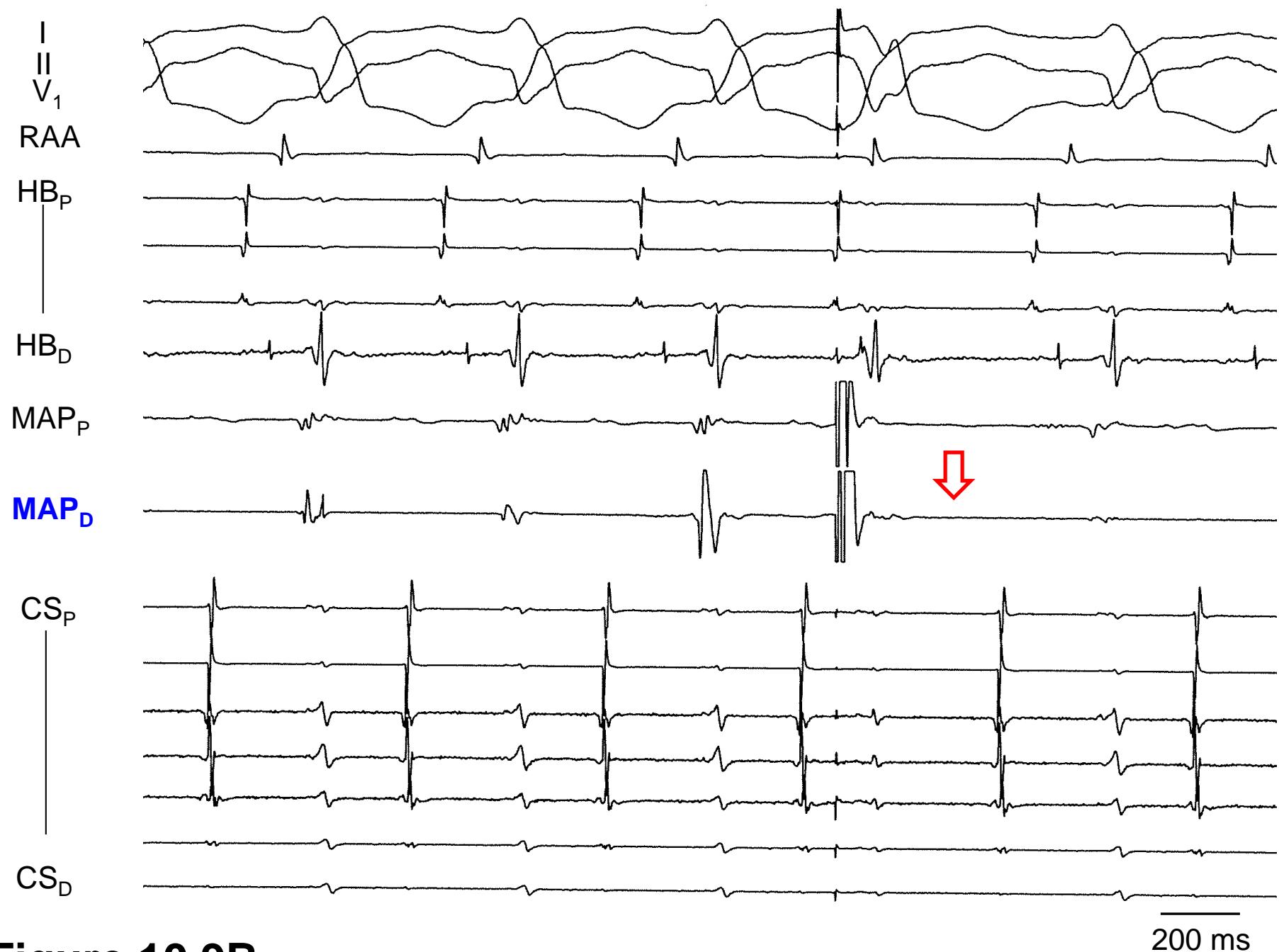
M1-M2

M1

M2



Figure 10.9A



**Figure 10.9B**

I-RA-ATI (50, 0)

-177 ms LAT 93 ms

I-RA-ATI (50, 0)

0.05 mV Bi 2.61 m  
0.21 2.07

Activation Map

Voltage Map

AP View

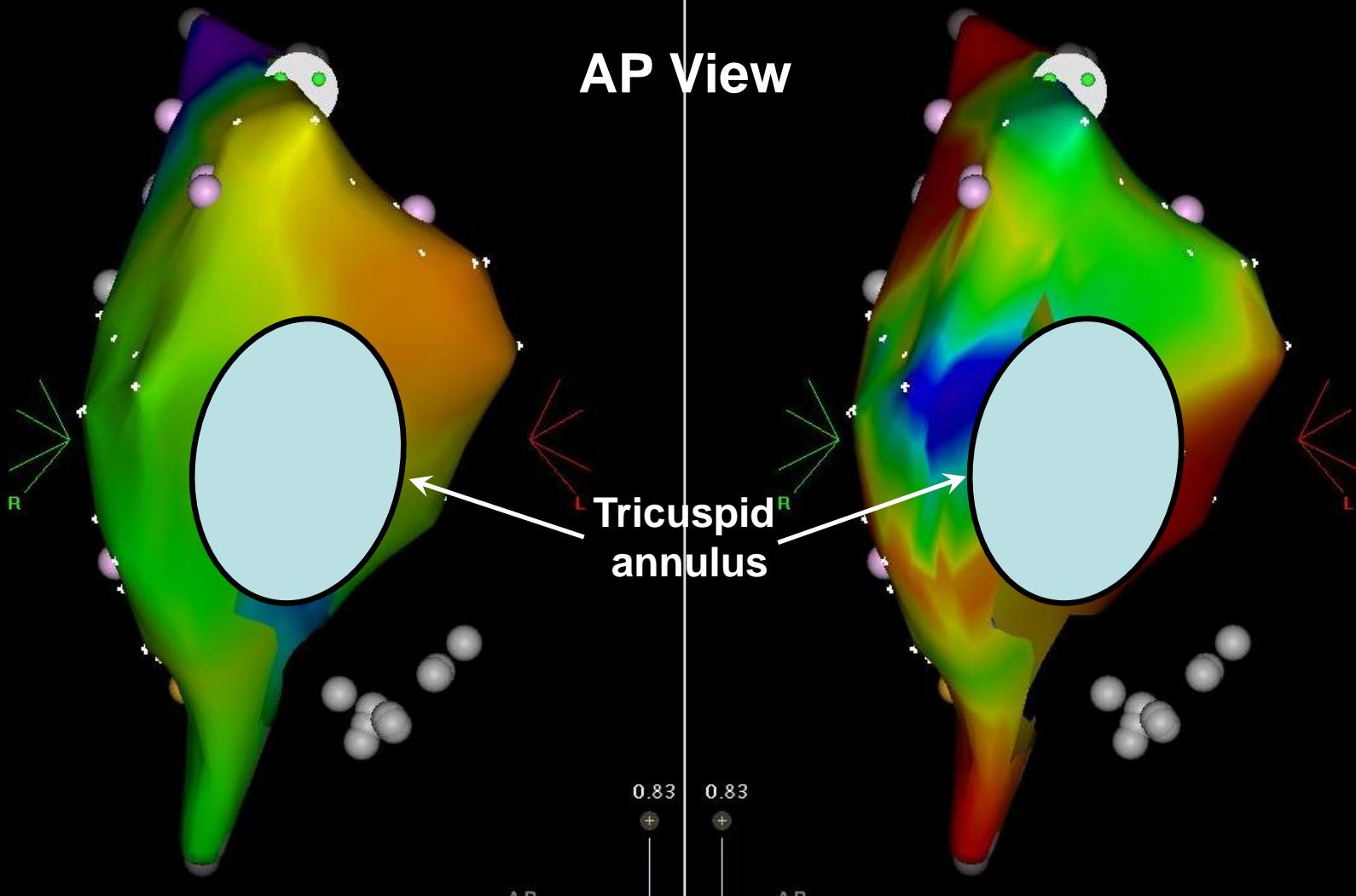


Figure 10.10A.

-RA-AT1 (50, 0)

-177 ms LAT 93 ms

I-RA-AT1 (50, 0)

0.05 mV Bi 2.61 m<sup>3</sup>

0.21

2.07

Activation Map

Voltage Map

RAO View

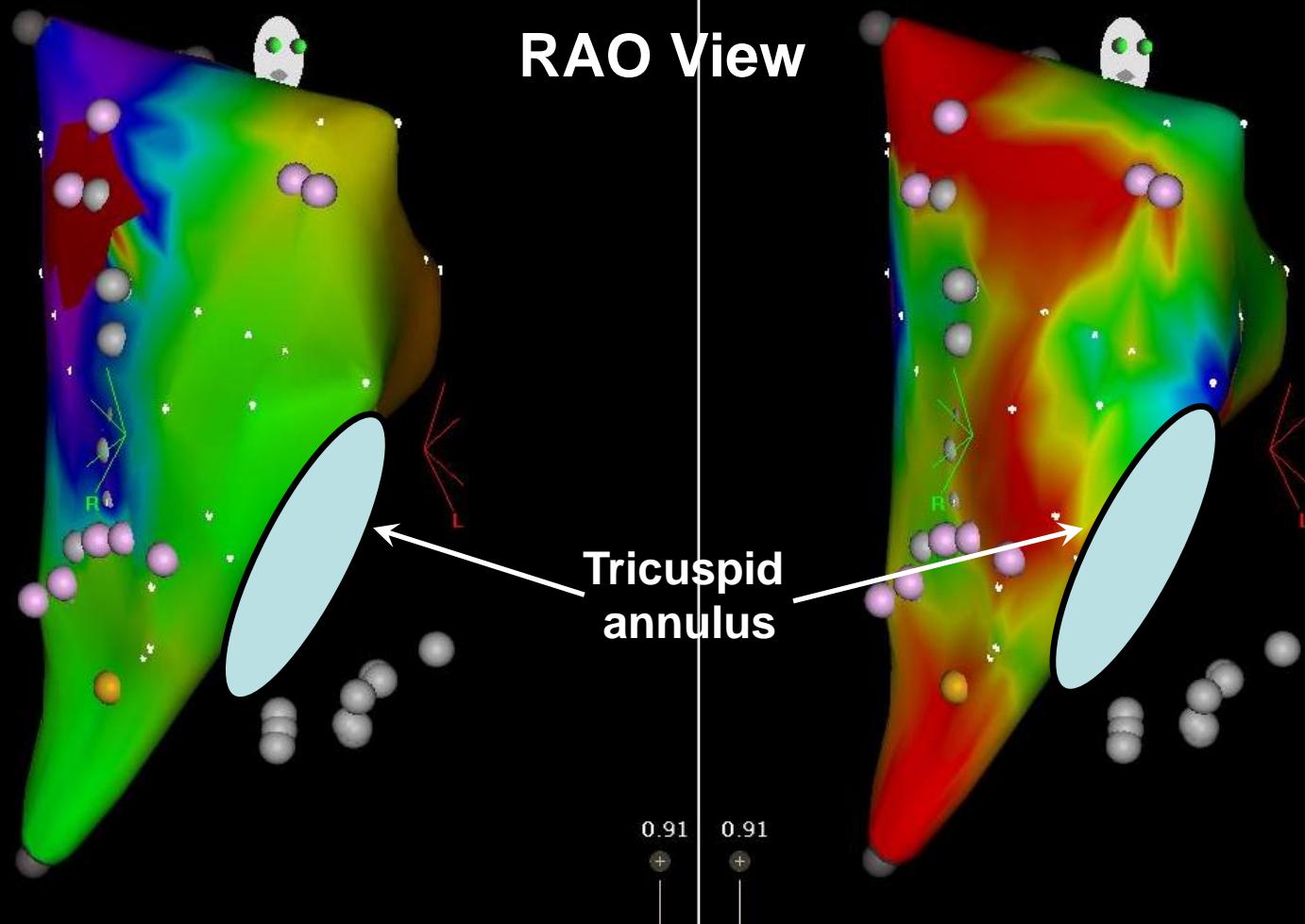


Figure 10.10B.

(50, 0)

-177 ms LAT 93 ms

I-RA-ATI (50, 0)

0.05 mV Bi 2.61 mV

0.21

2.07

Activation Map

Voltage Map

PA View

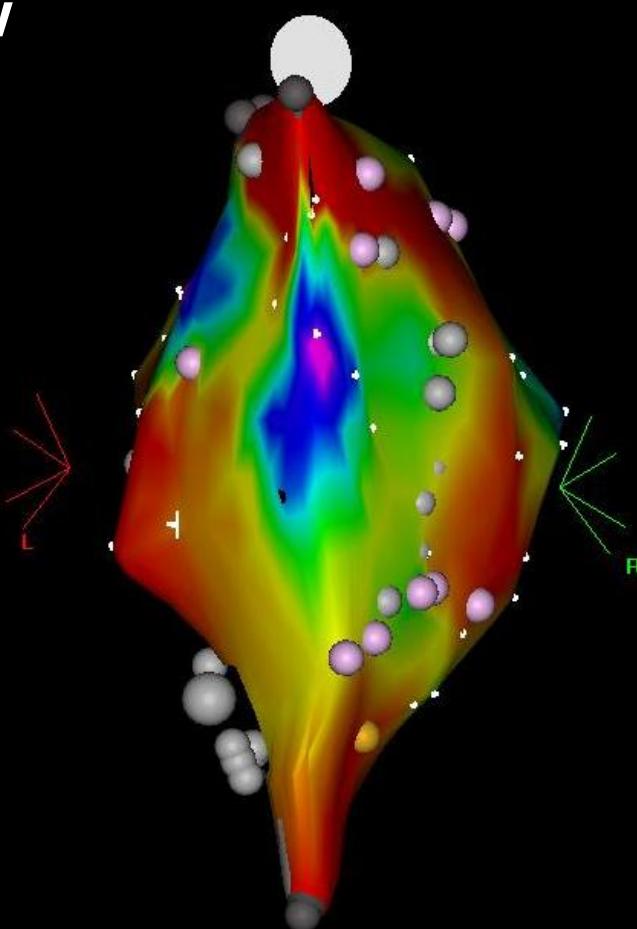
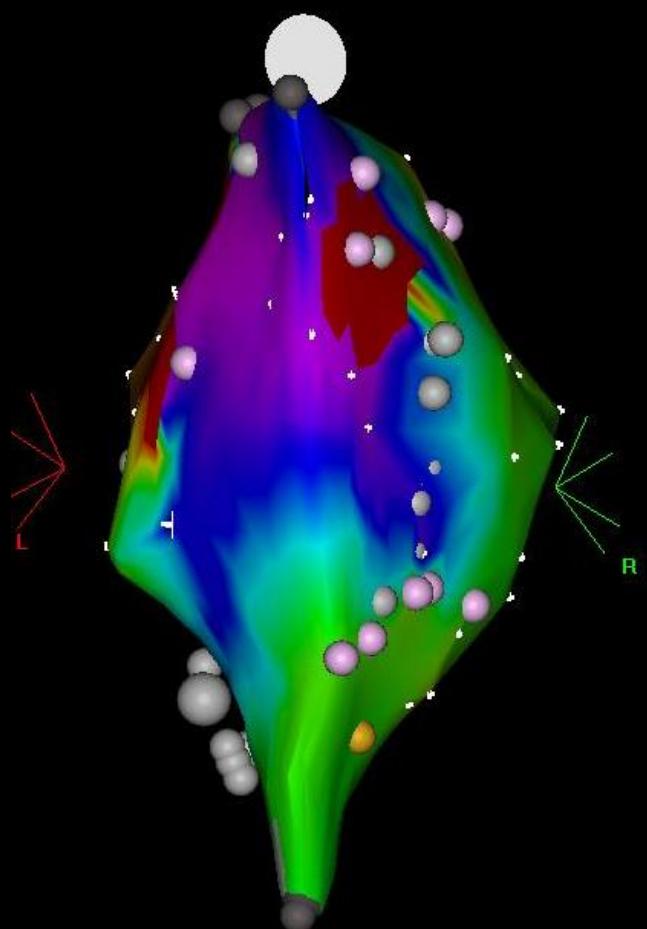
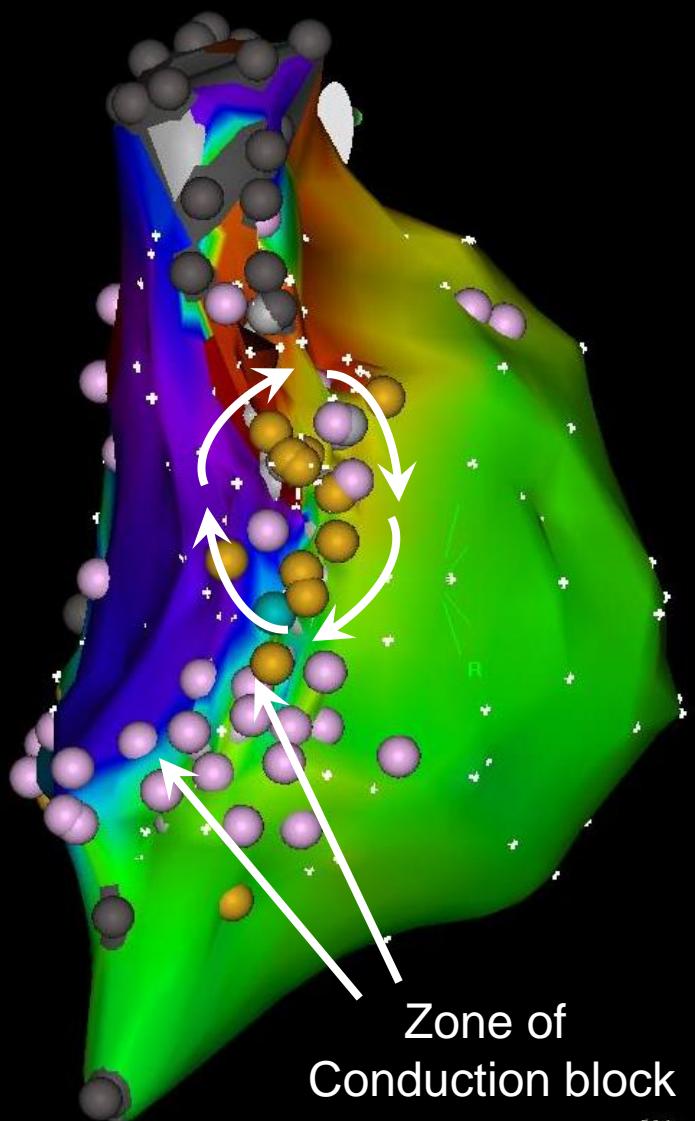


Figure 10.10C.

I (289, 0)

-185 ms LAT 97 ms

I-RA-ATI (289, 0)

0.04 mV Bi 9.70 n  
0.21 2.07

Zone of  
Conduction block

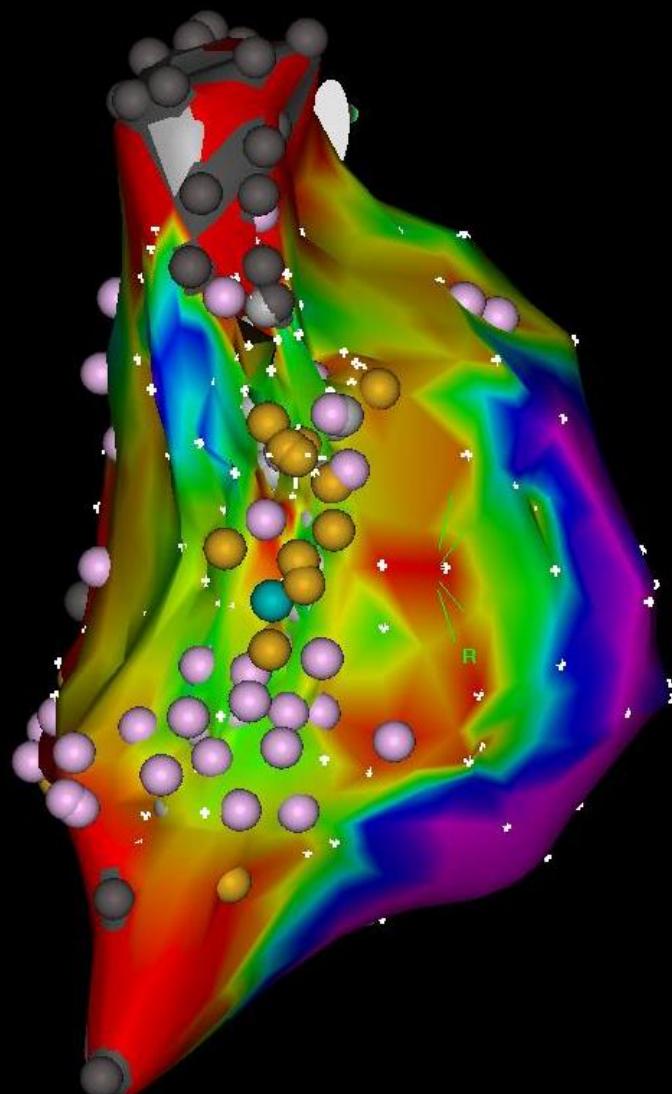


Figure 10.10D.

-177 ms LAT 93 ms

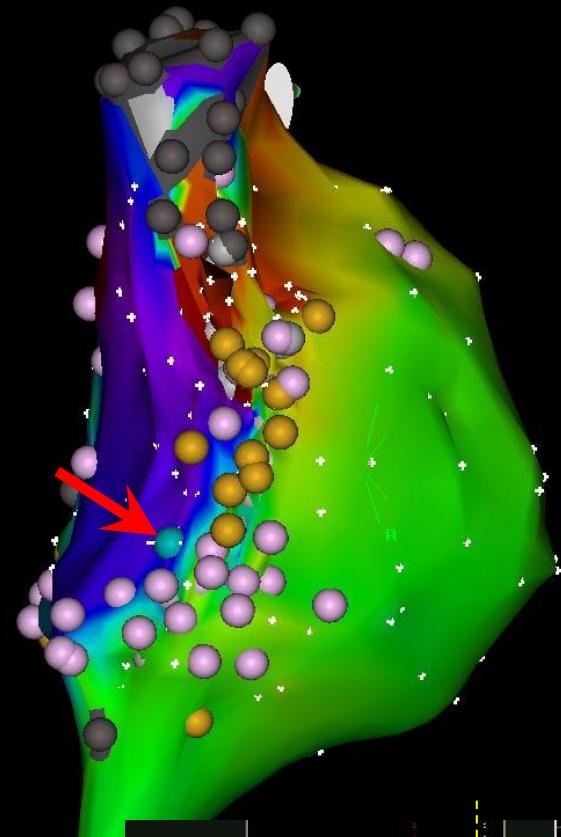
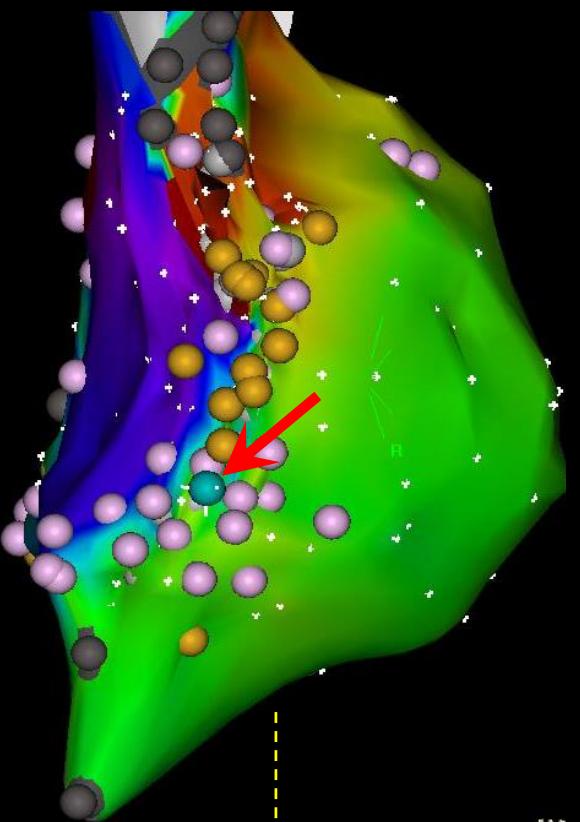
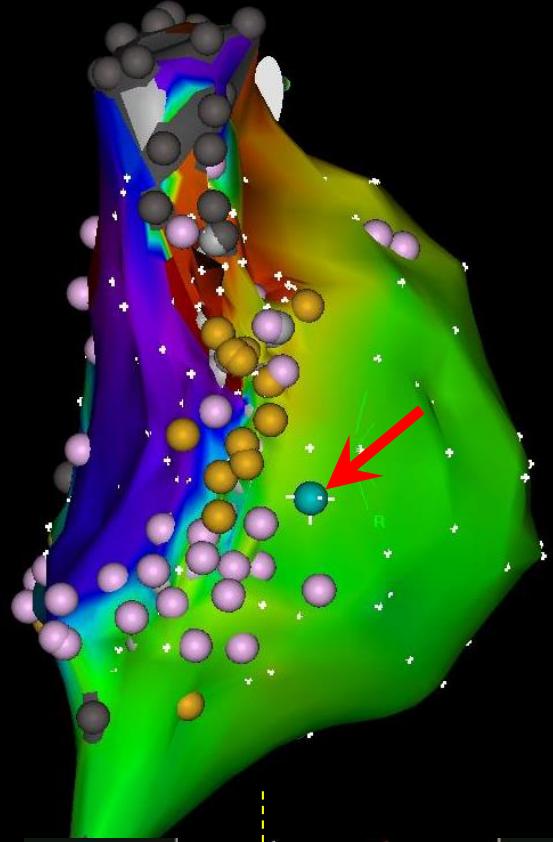


Figure 10.11A.

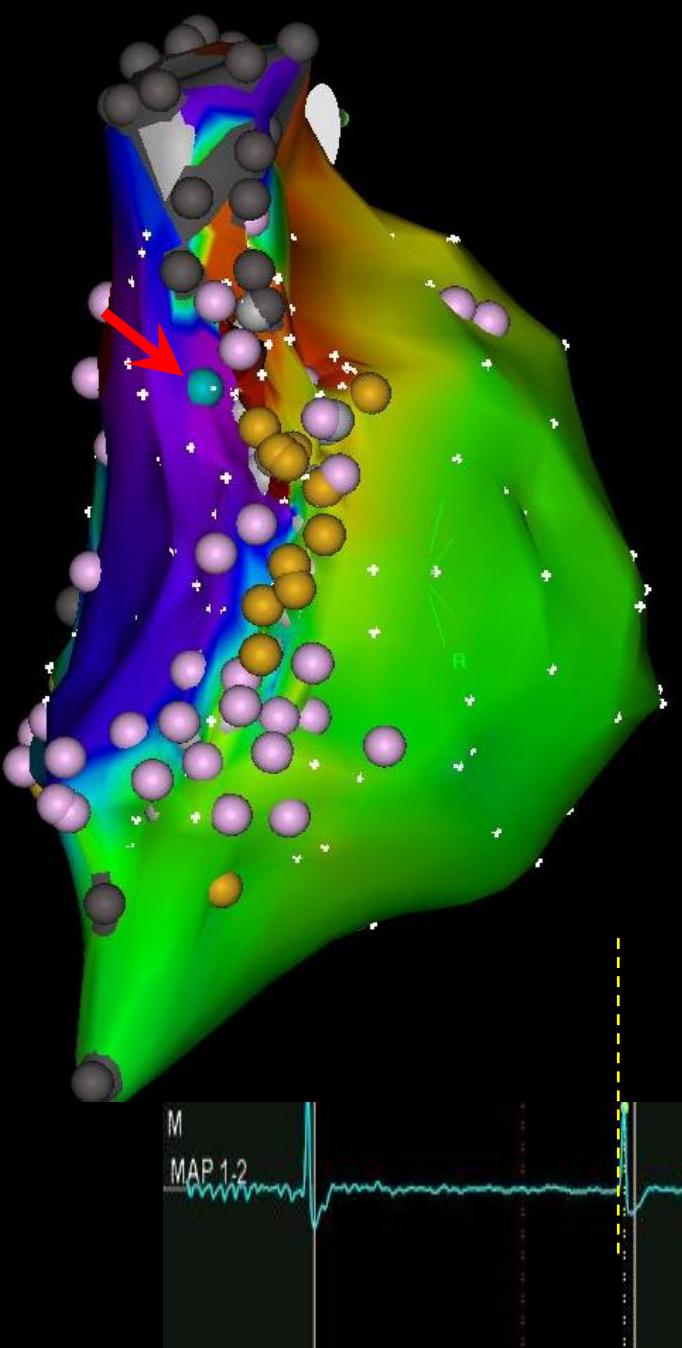
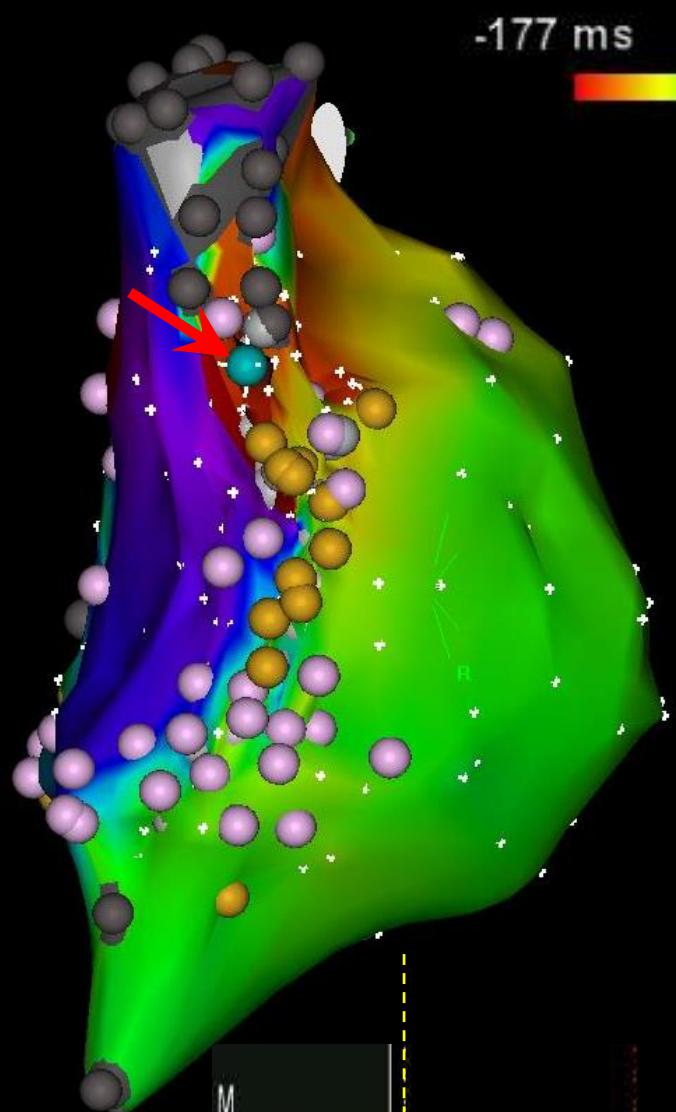


Figure 10.11B.

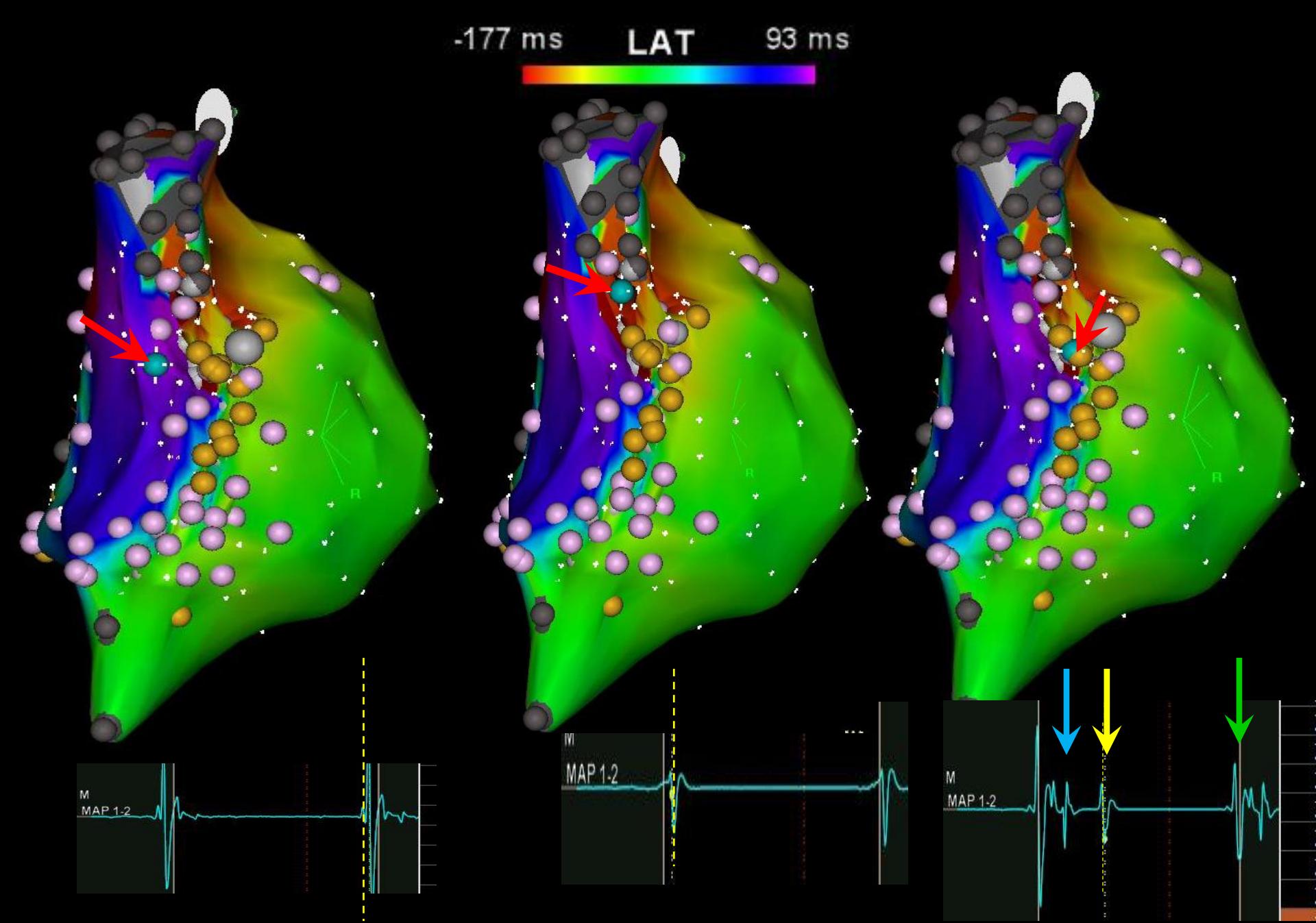


Figure 10.11C.

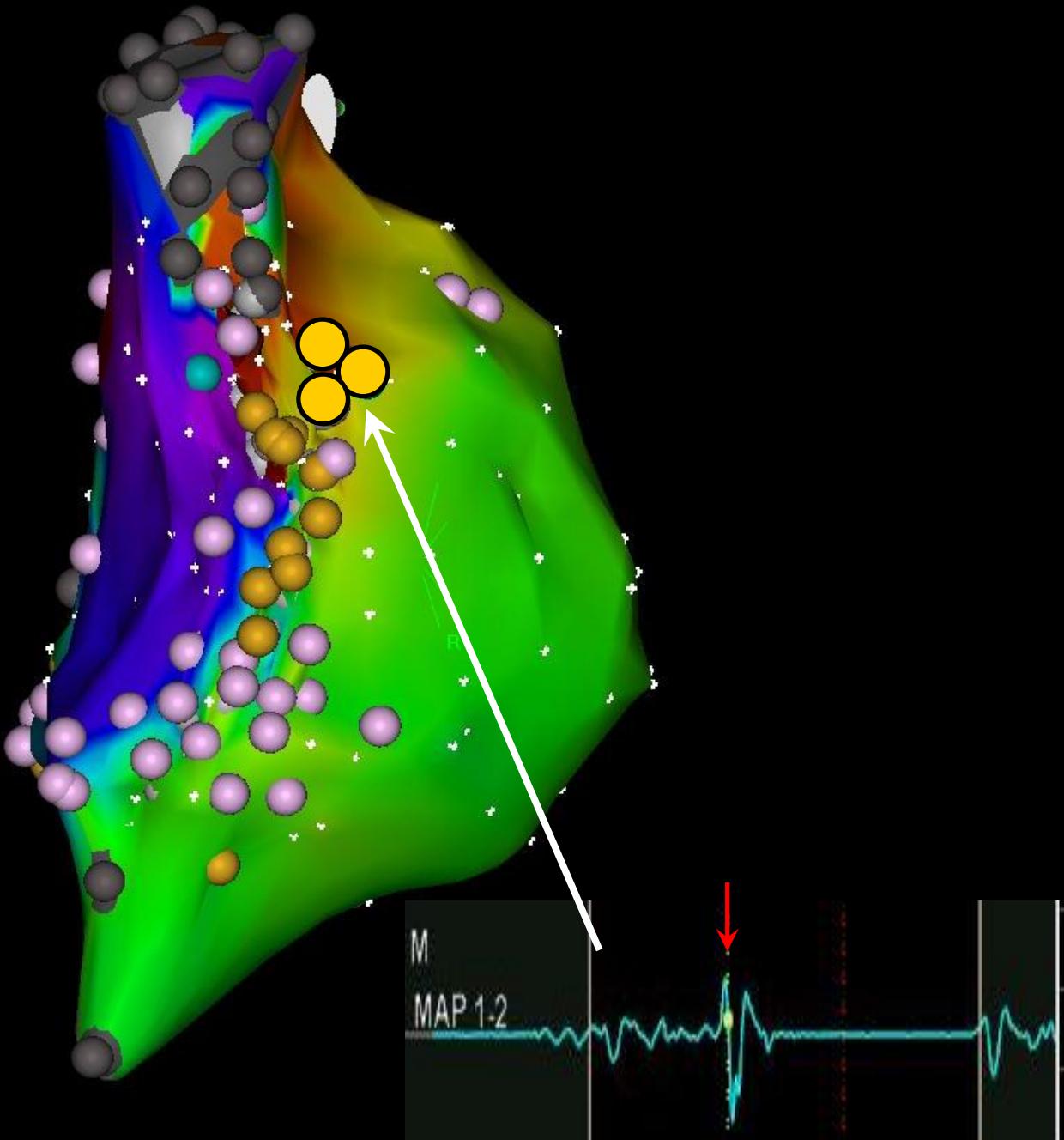


Figure 10.11D.



**Figure 10.12A.**

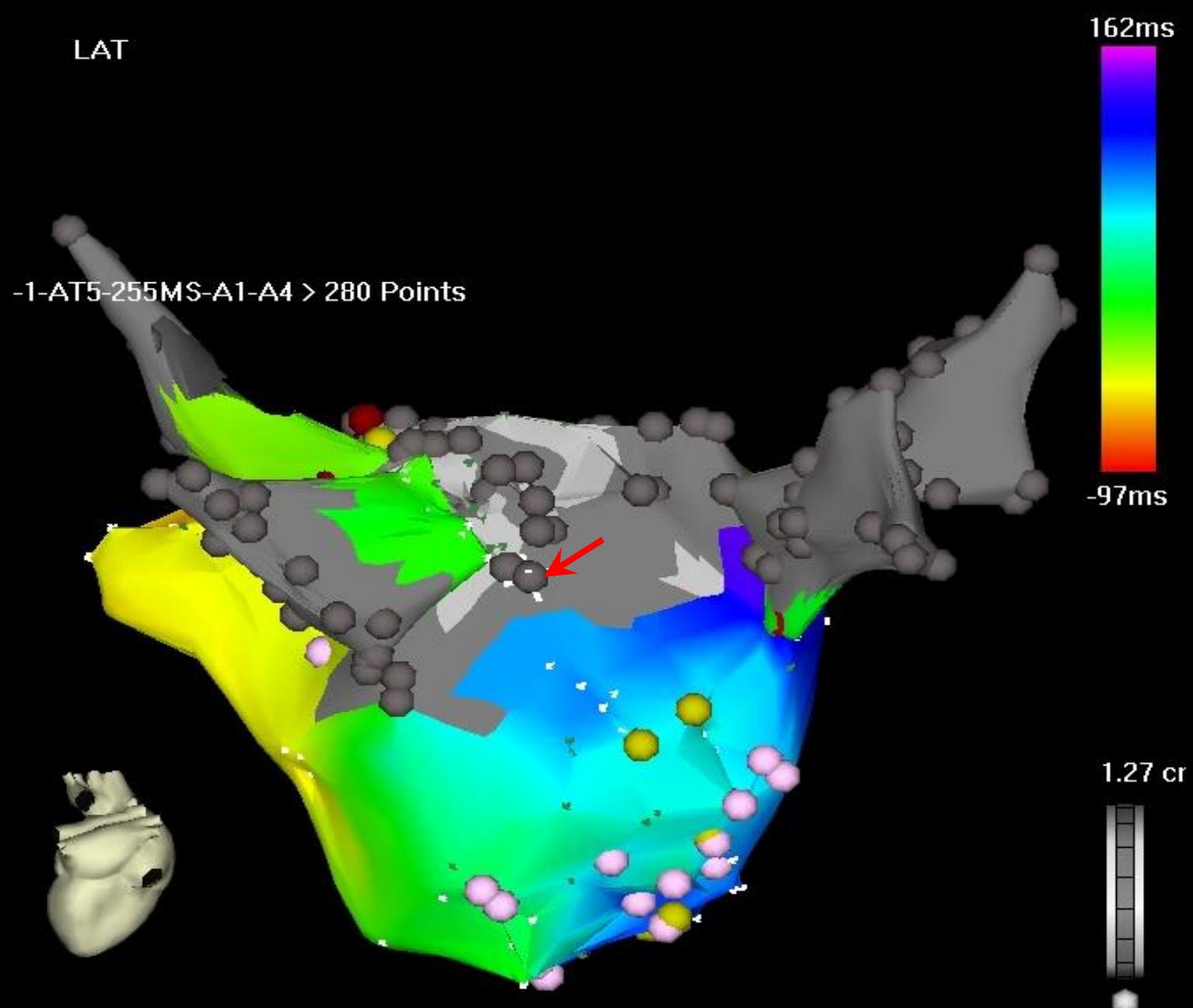


Figure 10.12B.

-148 ms LAT 95 ms

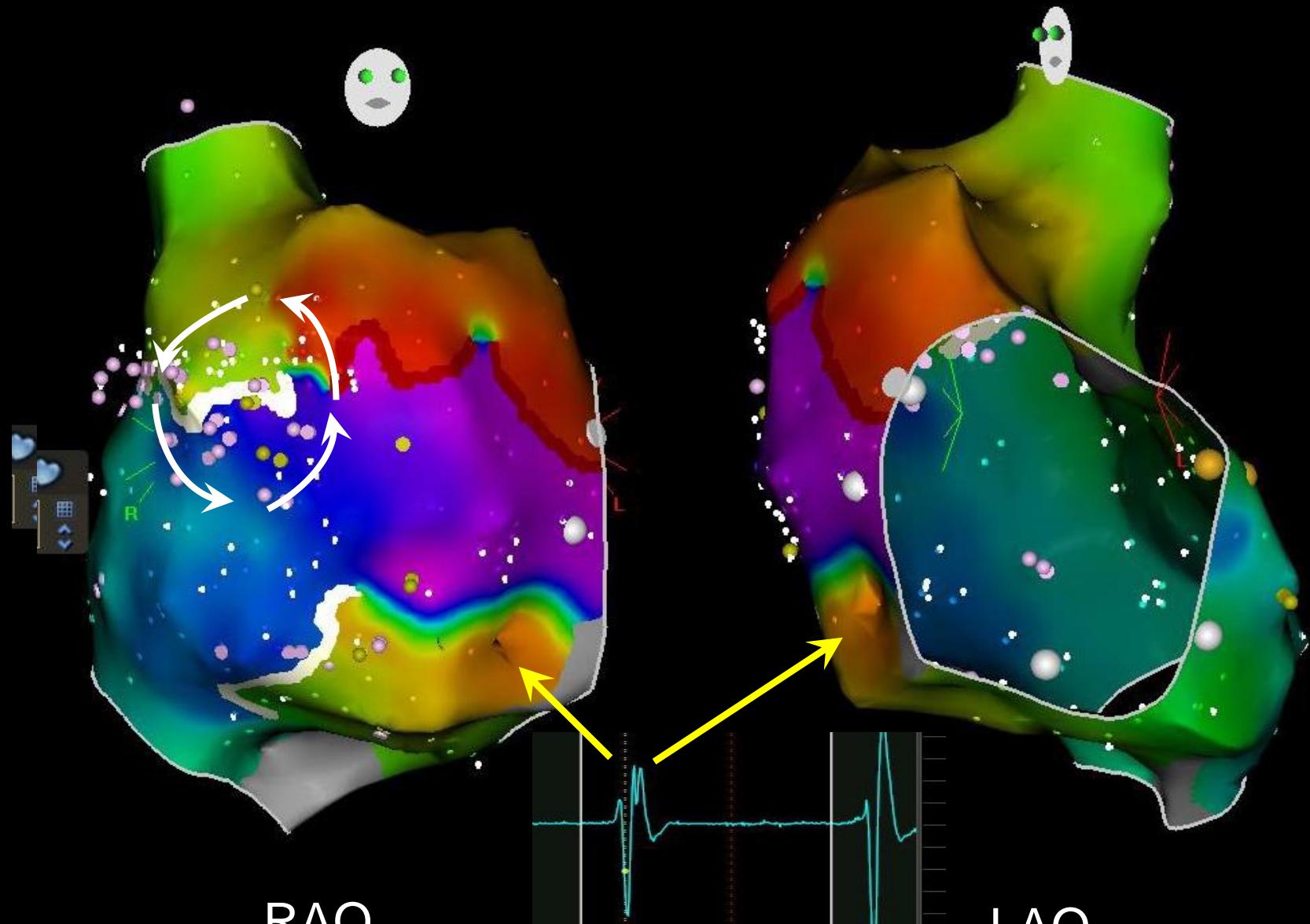
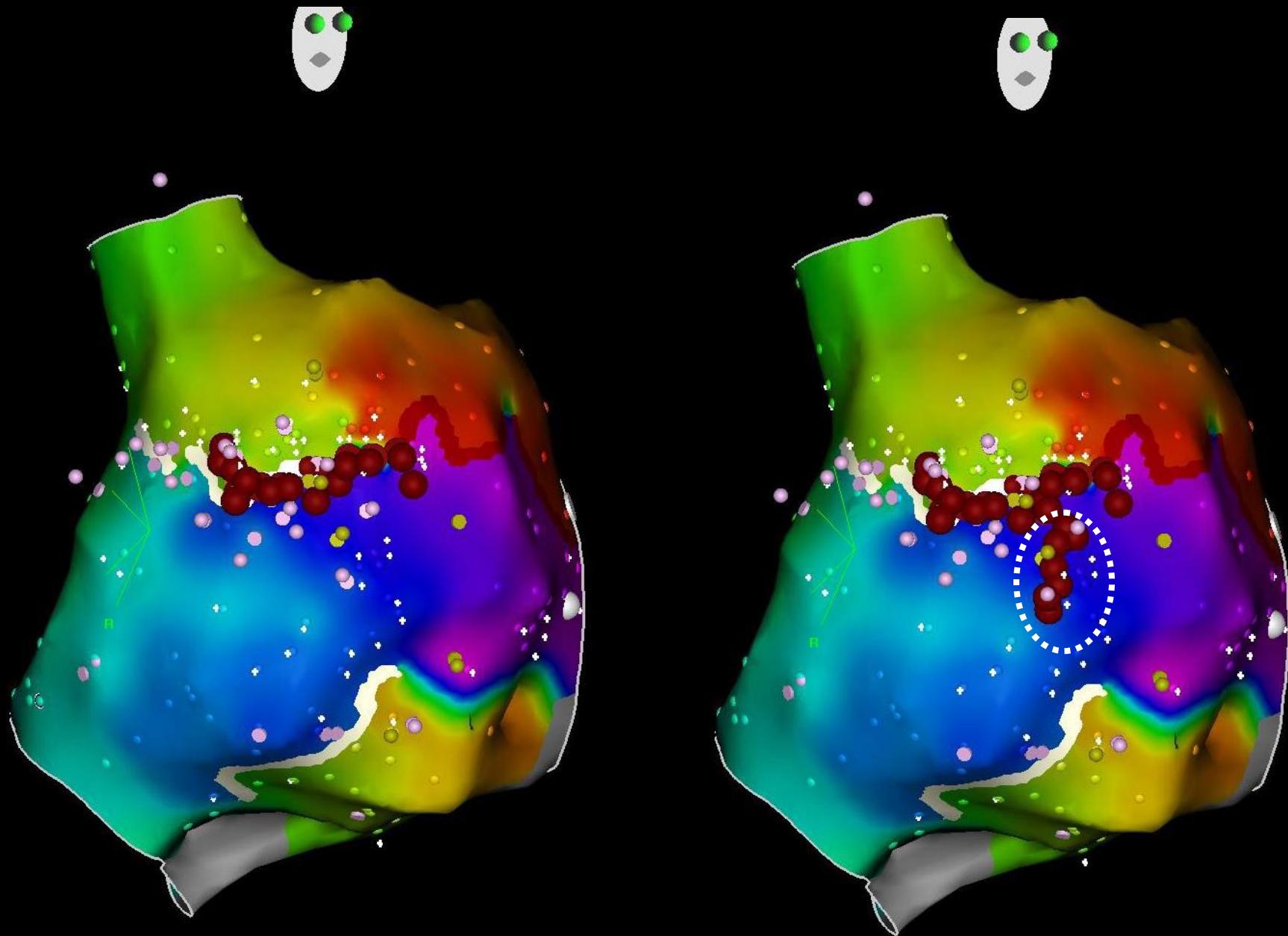


Figure 10.13A.



**Figure 10.13B.**

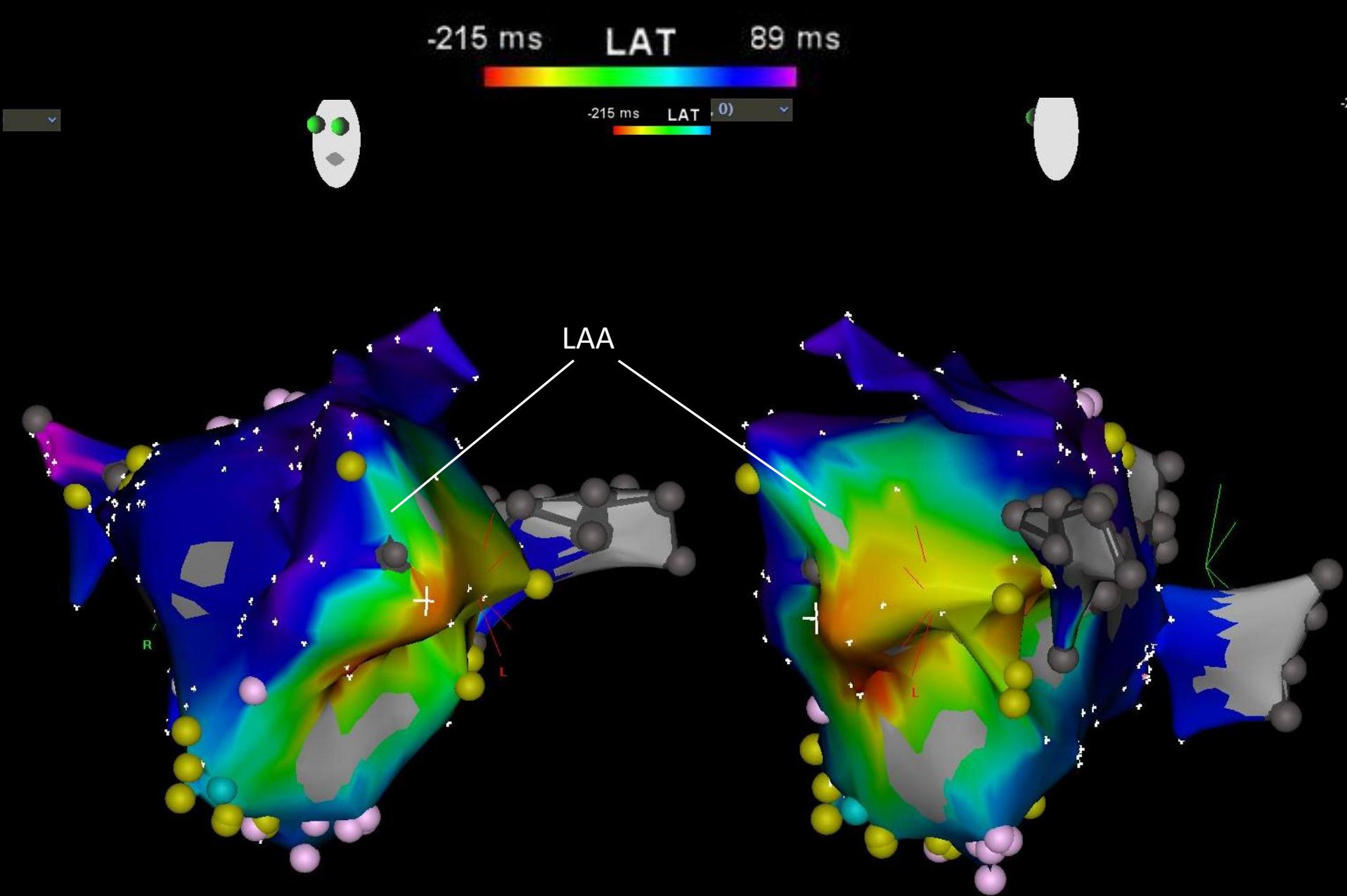


Figure 10.13C.

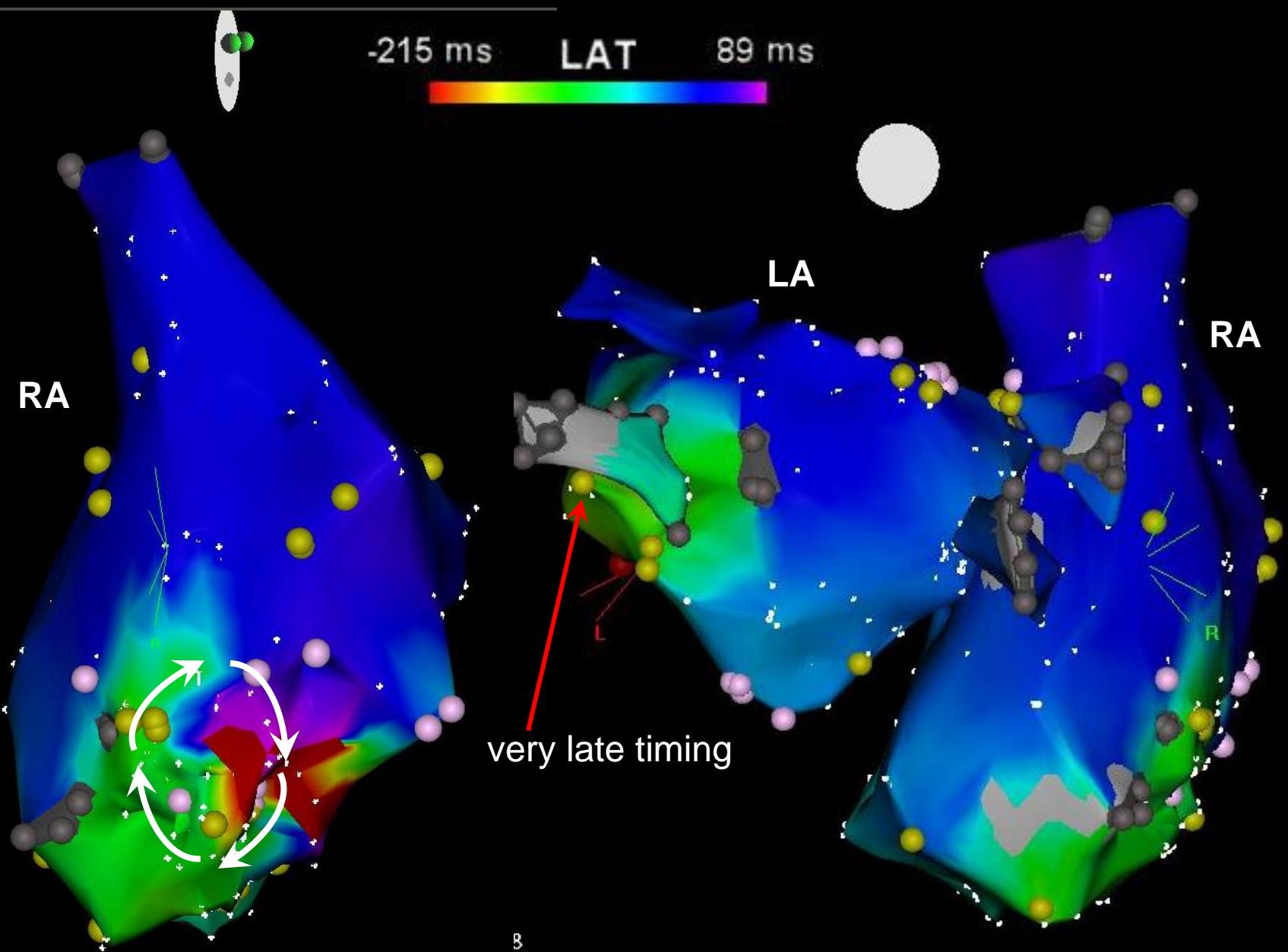


Figure 10.13D.

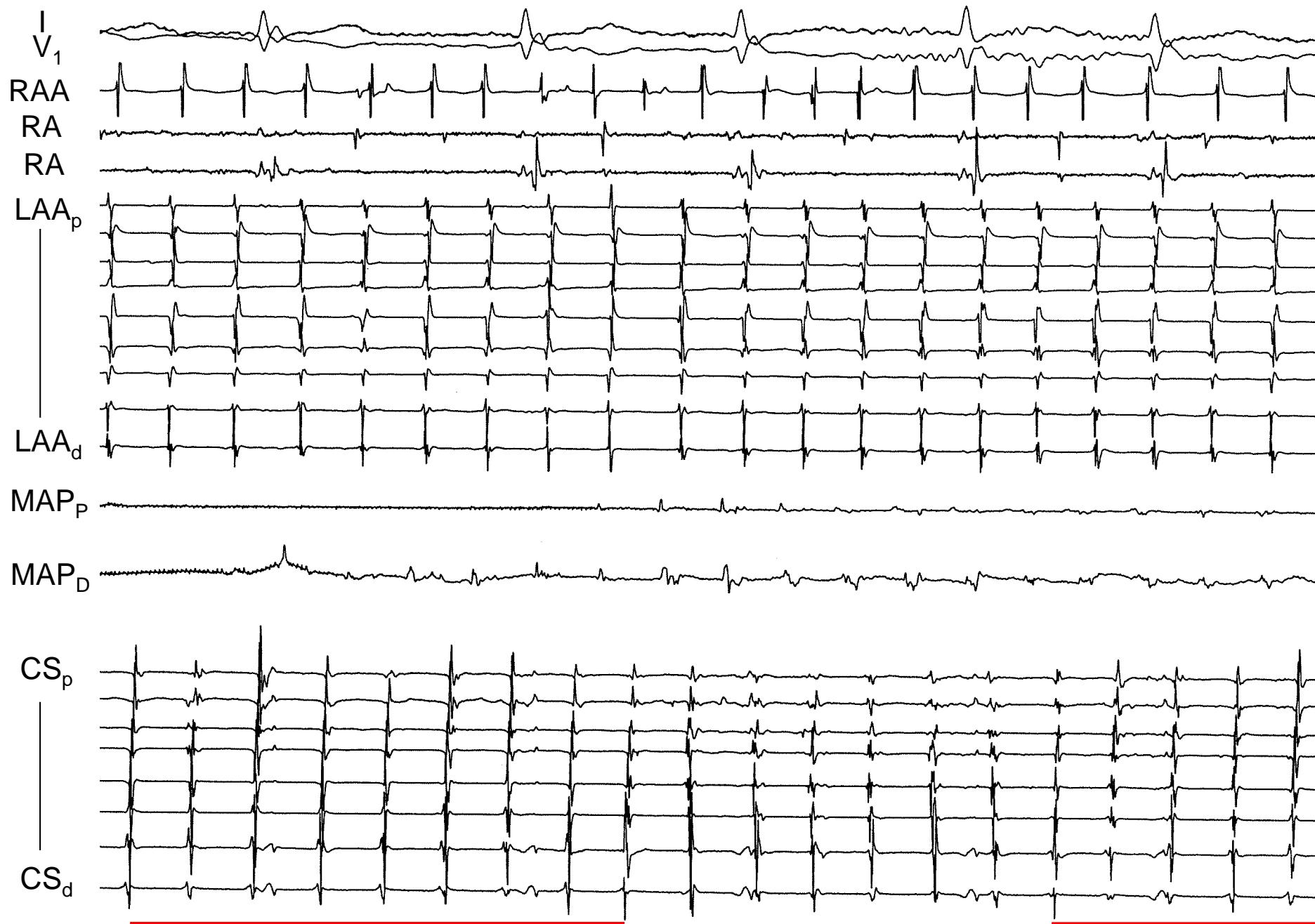


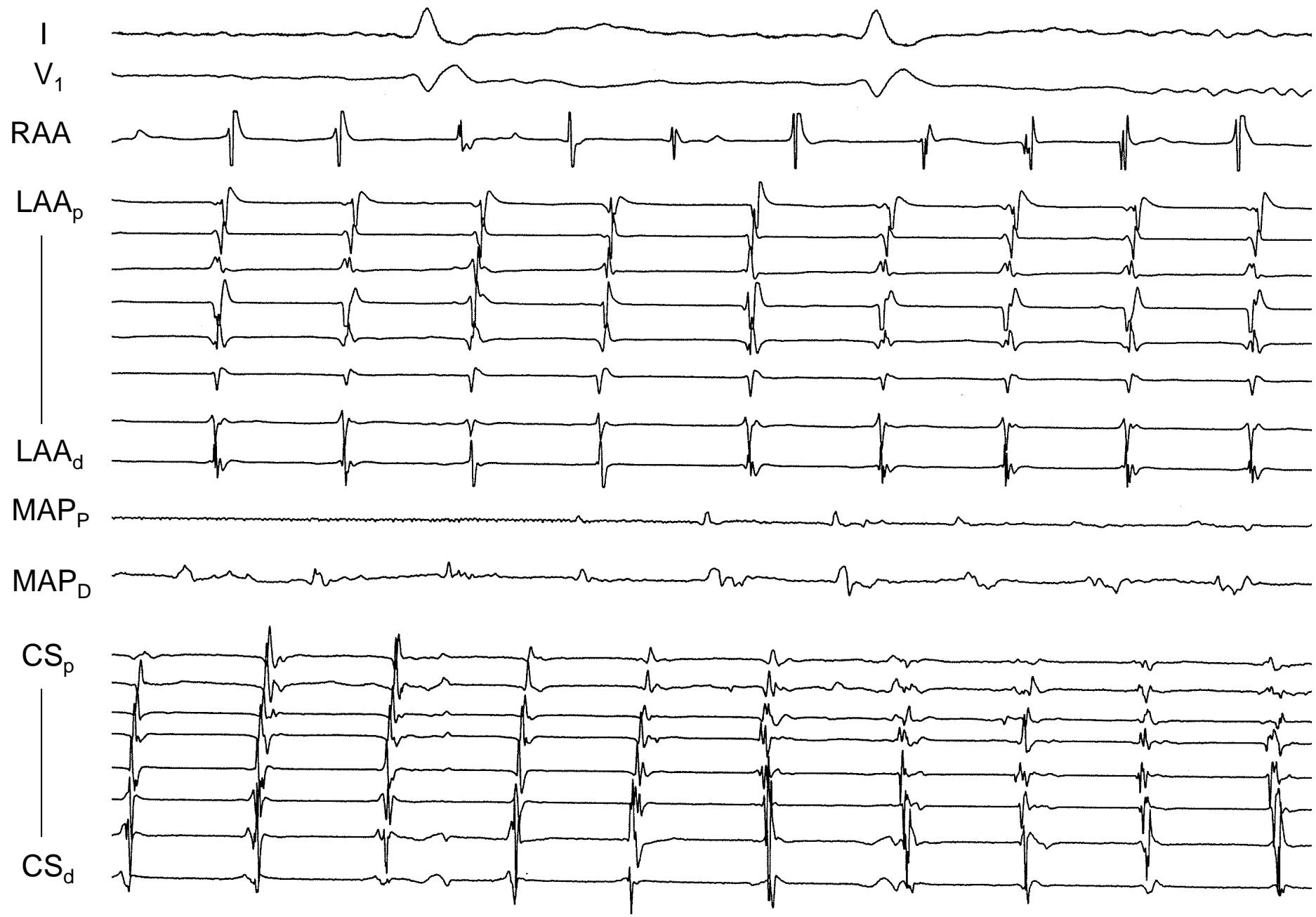
Figure 10.14A.

AT1

AT2

AT1

—  
200



**Figure 10.14B.**

200 ms

(47, 0)✓



-96 ms

LAT

126 ms

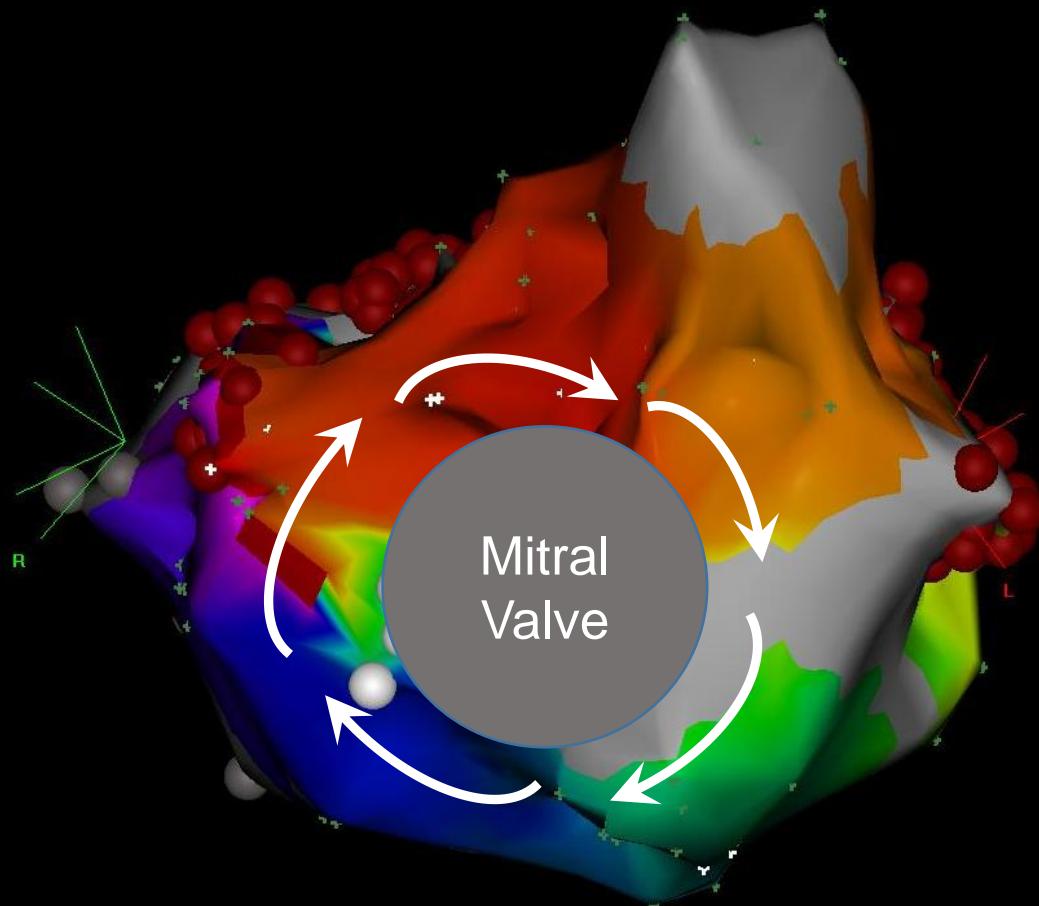
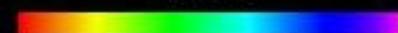
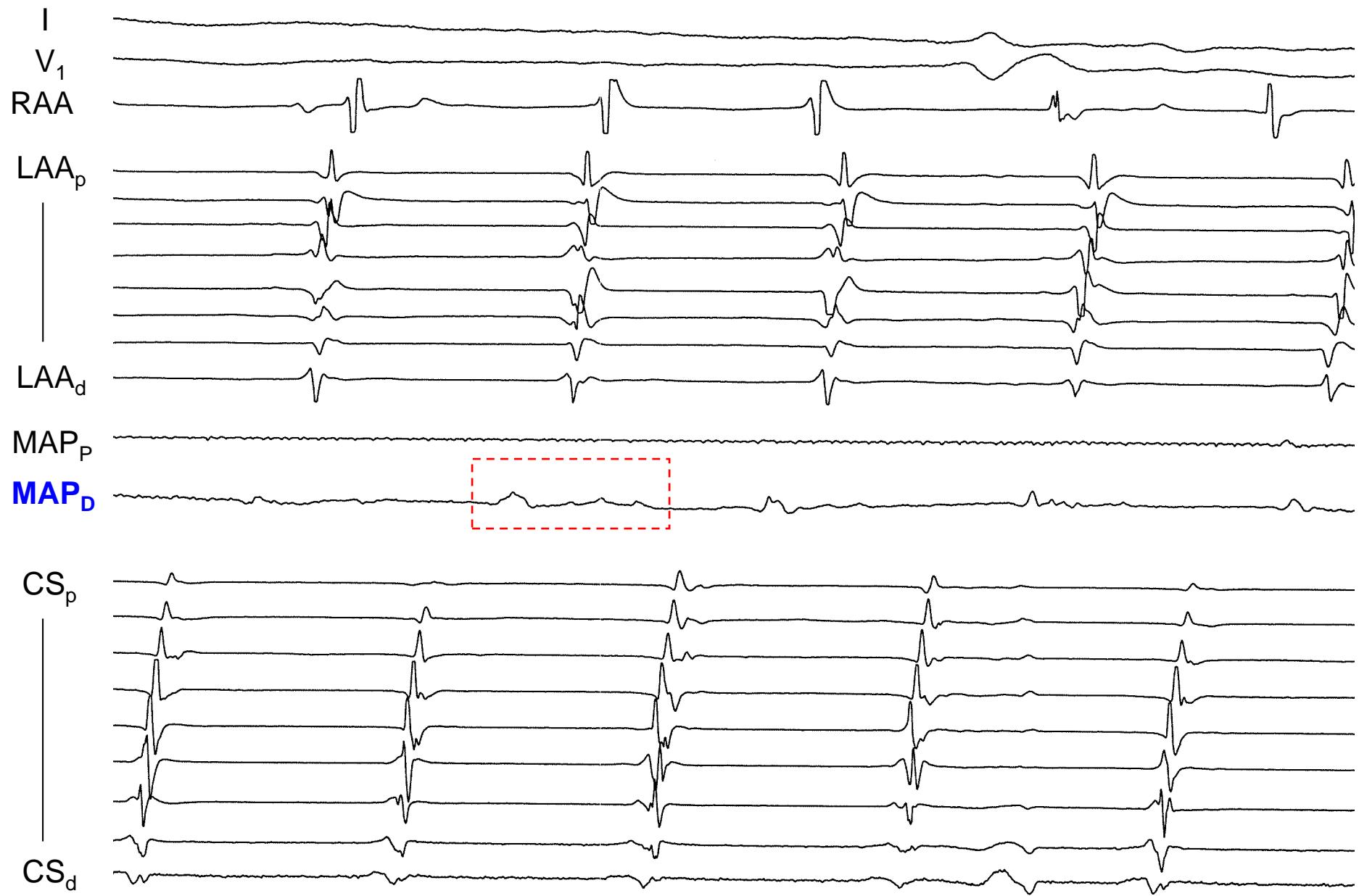
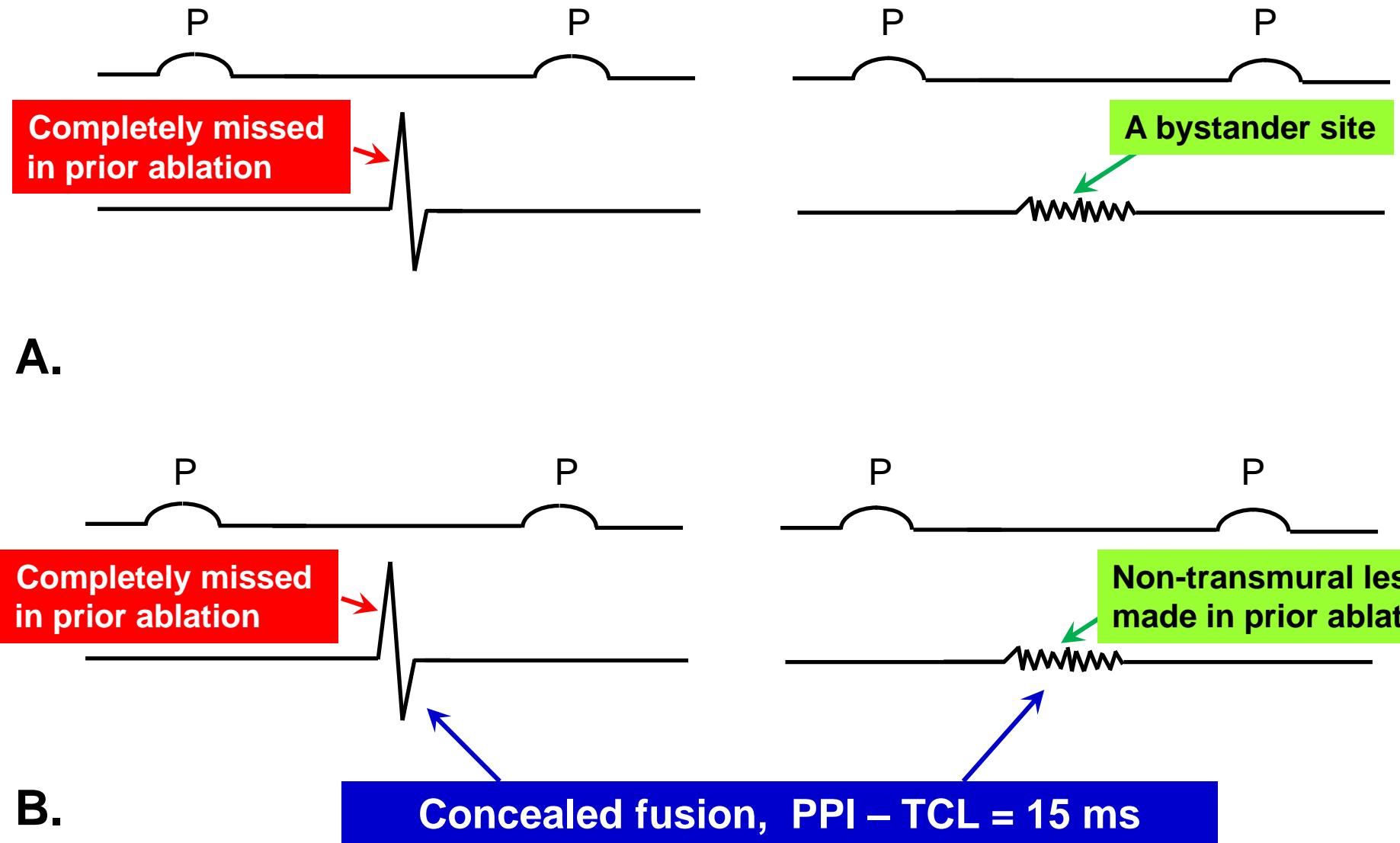


Figure 10.14C.



**Figure 10.14D.**

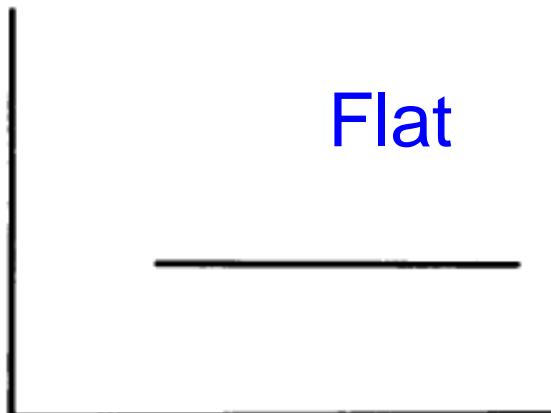
100 ms



**Figure 10.15.**

**Return CL  
(ms)**

**Flat**



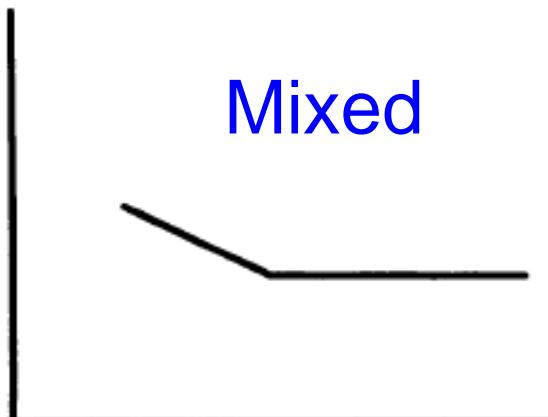
**Increasing**

**Couple CL (ms)**

**Couple CL (ms)**

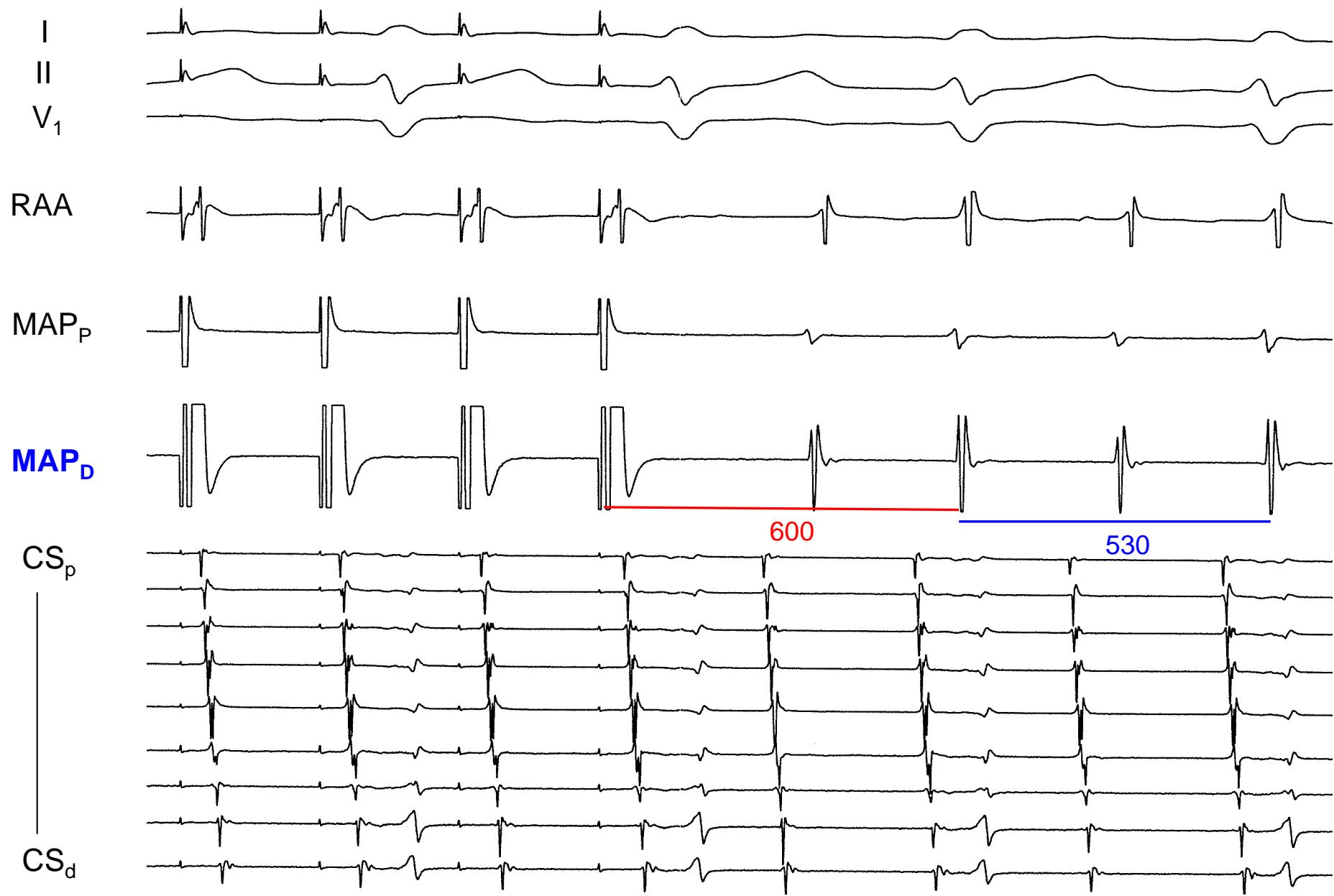
**Return CL  
(ms)**

**Mixed**



**Couple CL (ms)**

**FIGURE 10.16A**



**Figure 10.16B**

200 ms

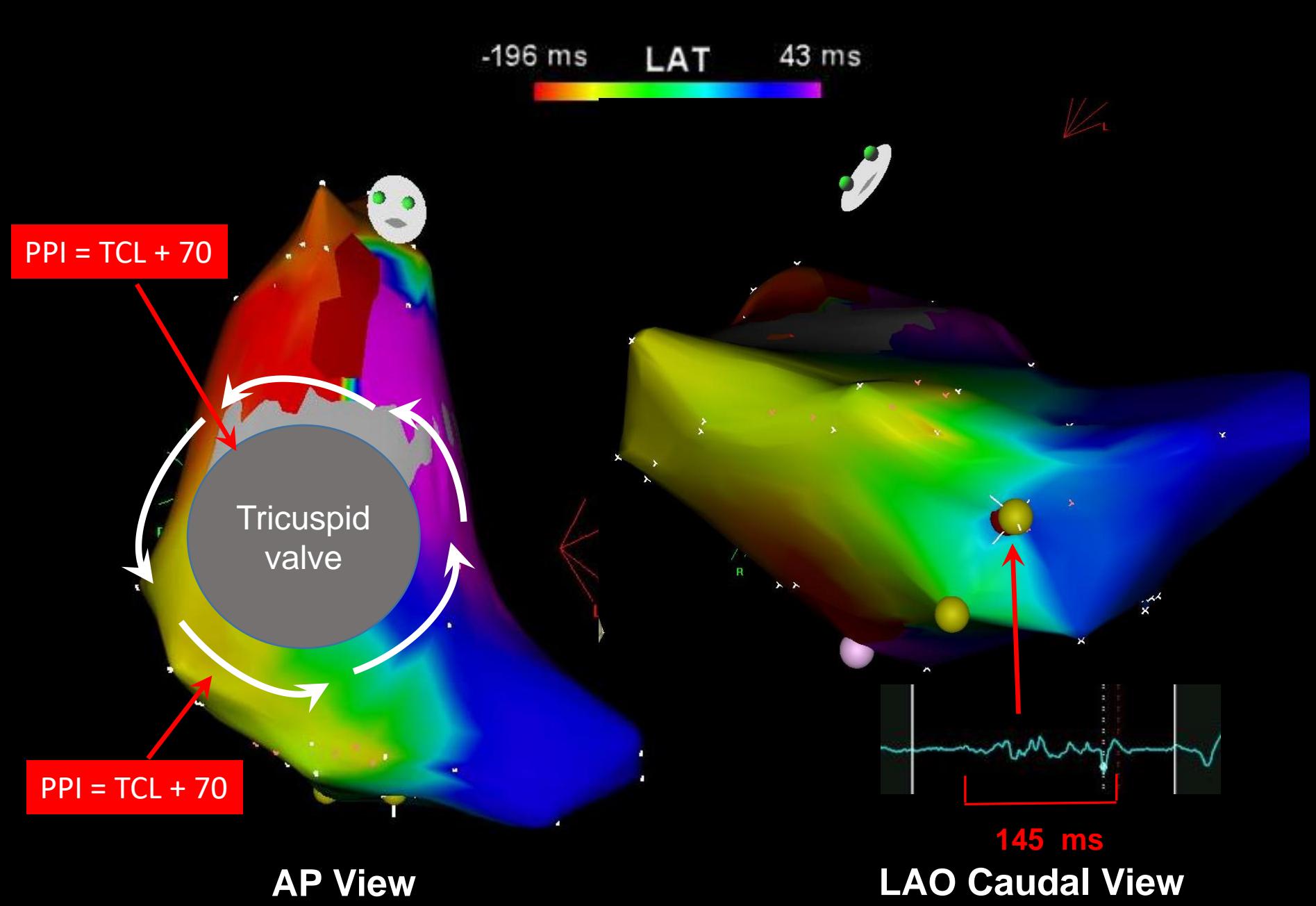


Figure 10.16C

# Macroreentrant Right Atrial Tachycardia

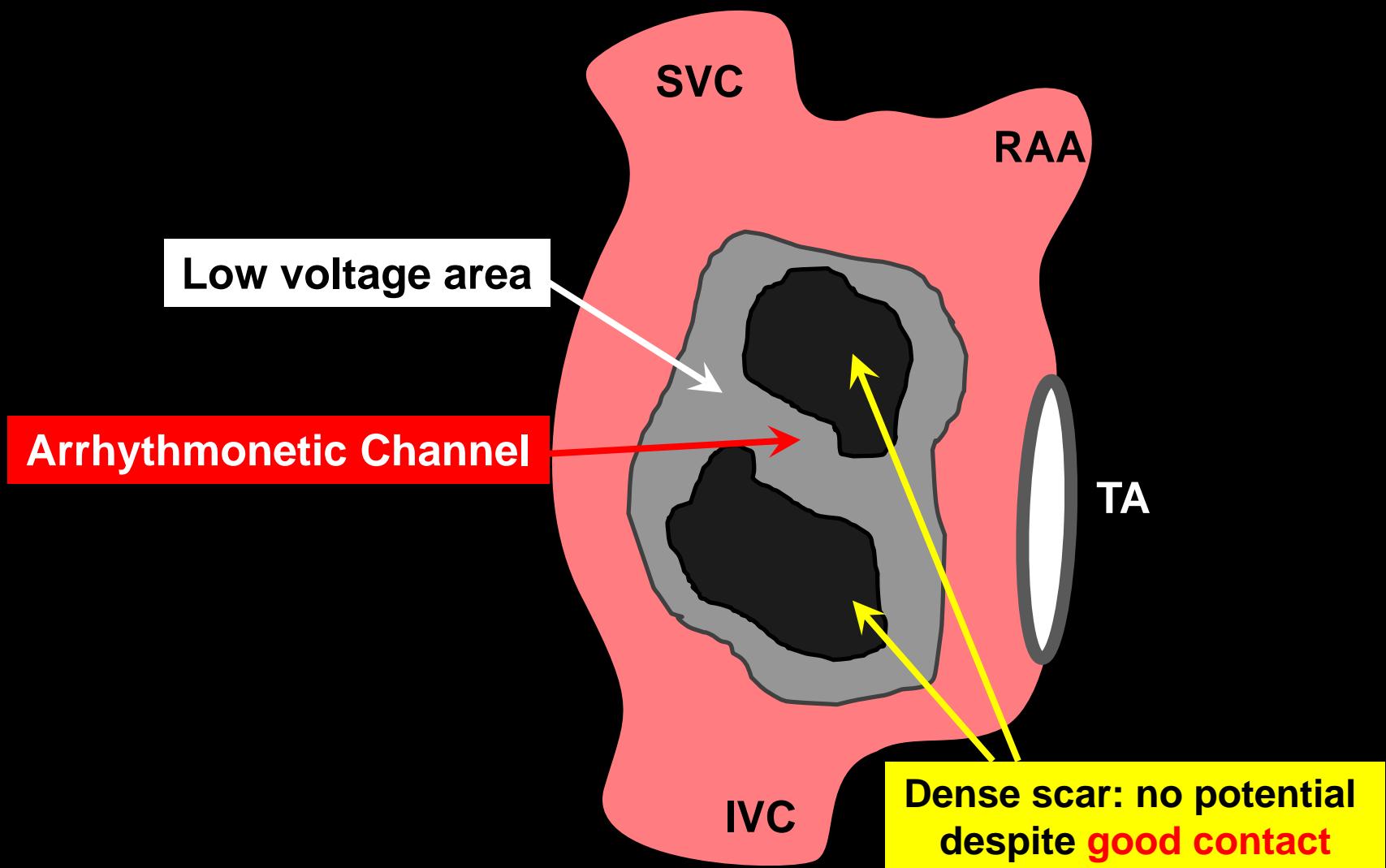


Figure 10.16D.

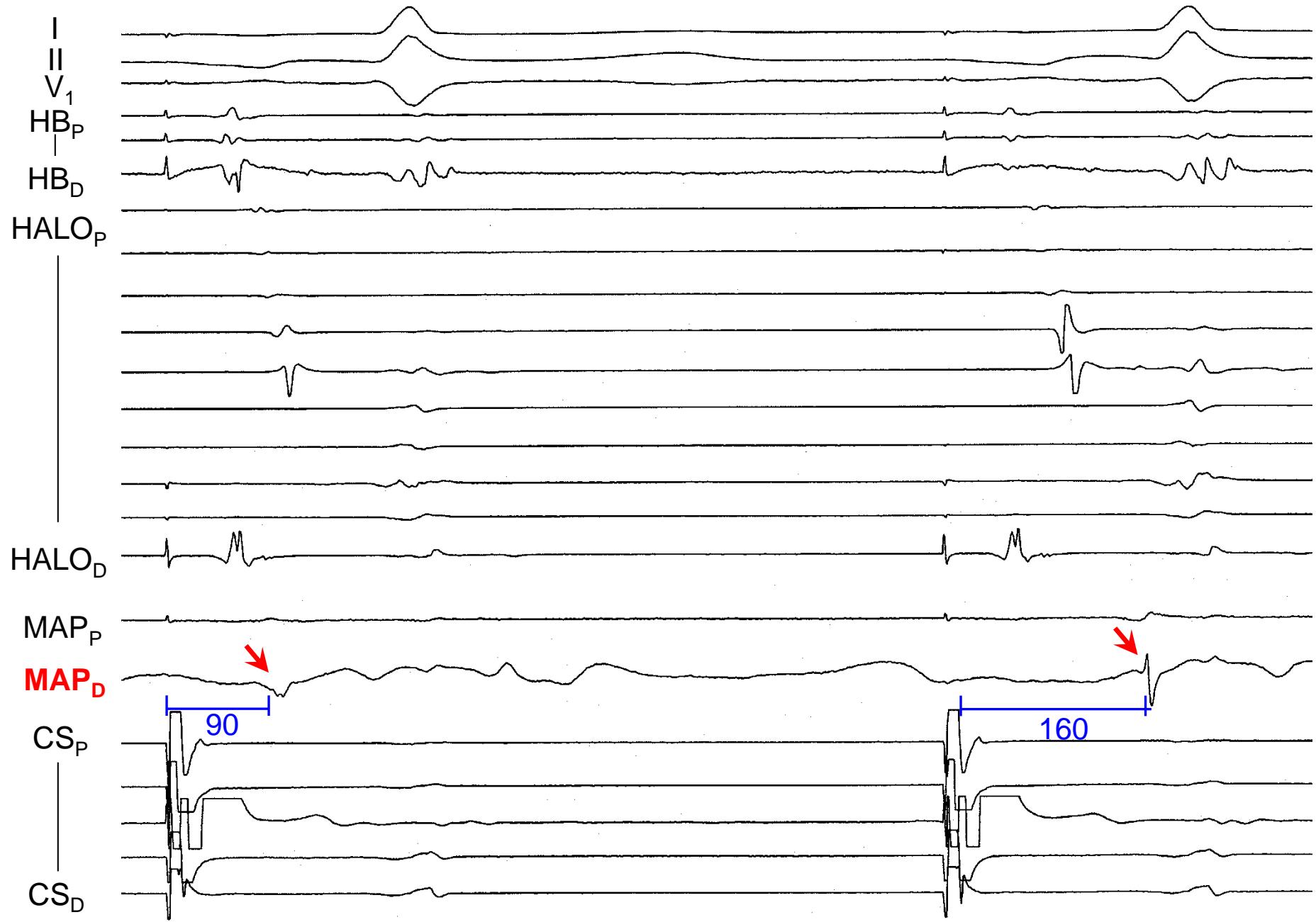


Figure 10.17A

100 ms

# Halo Catheter Position

P

HB

7

5

P

7

HB

5

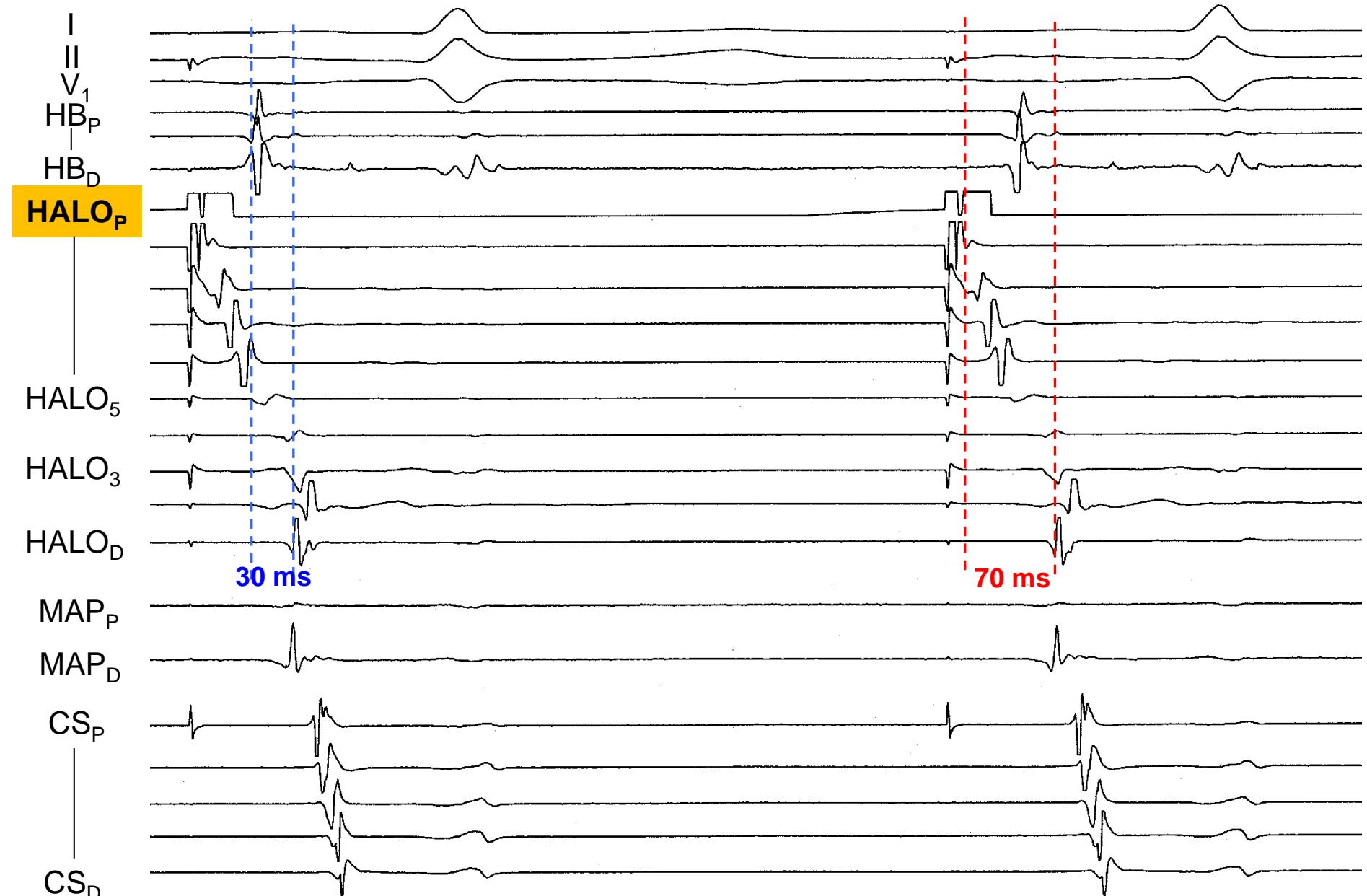
3

D

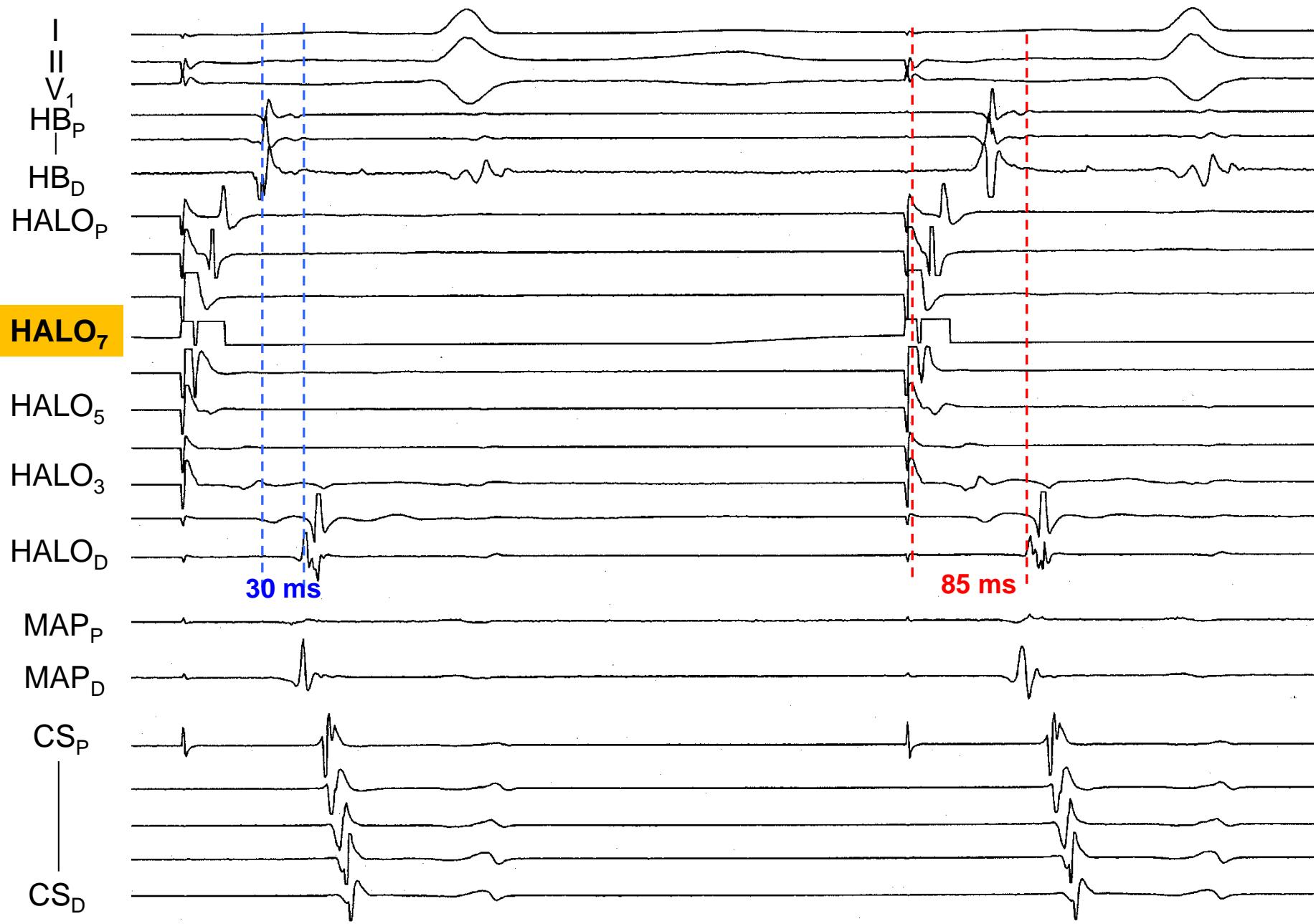
RAO

LAO

Figure 11.17B



**Figure 10.17C**



**Figure 10.17D**

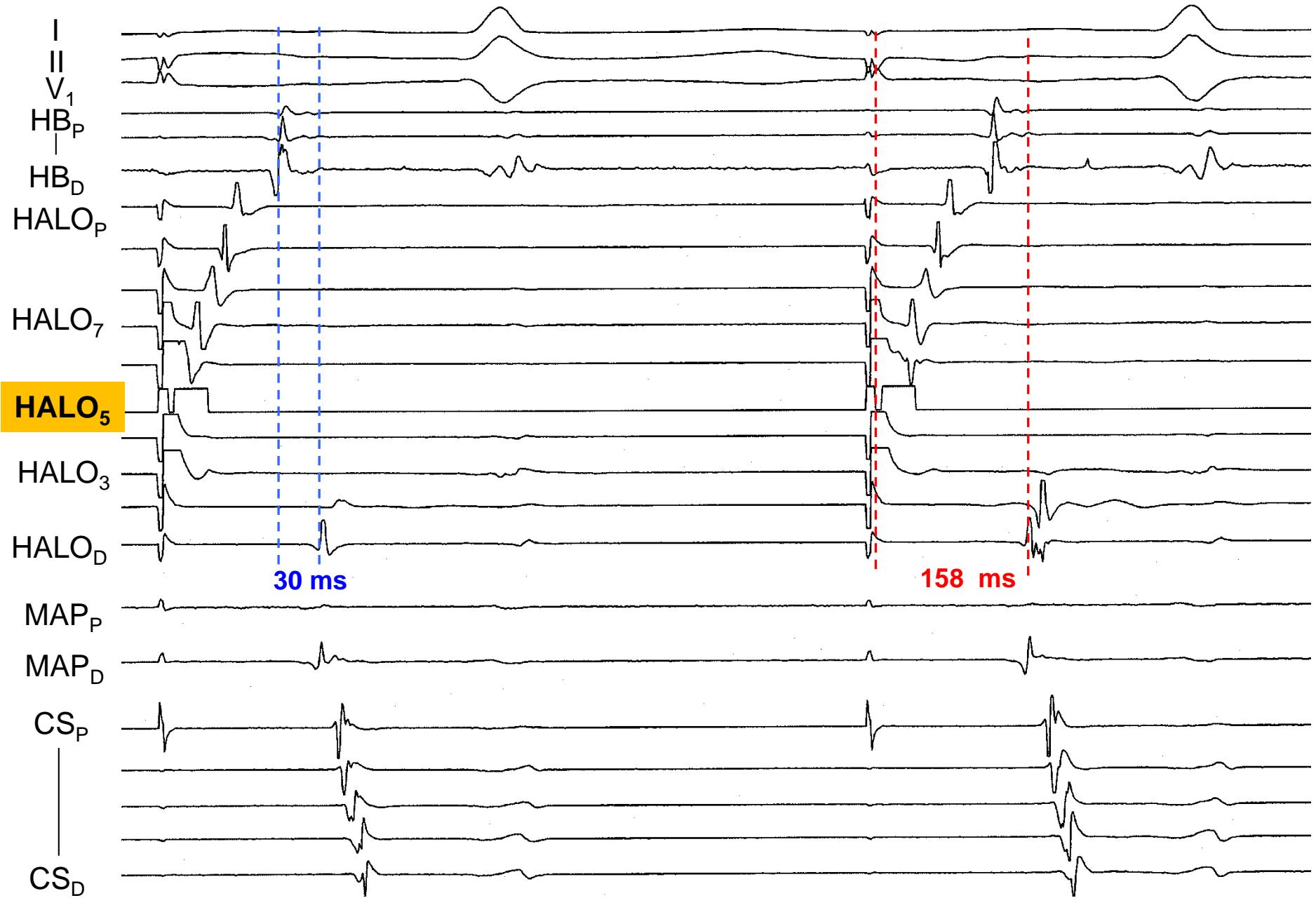
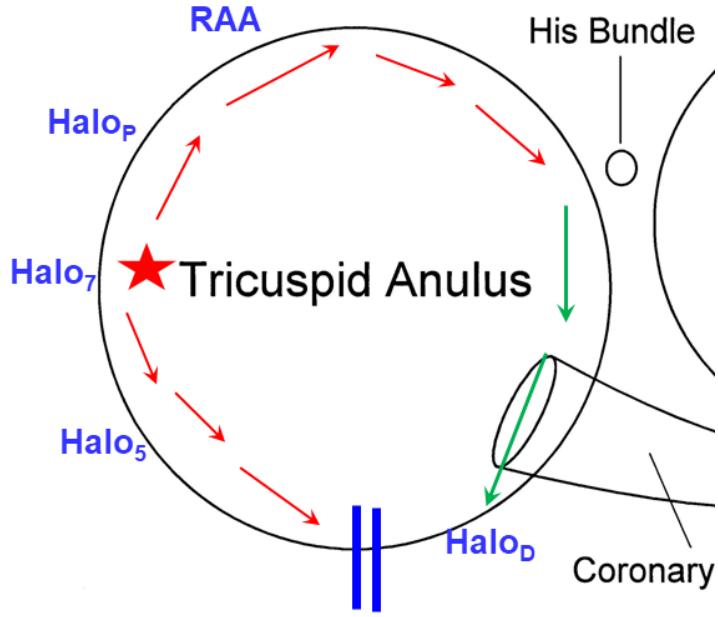
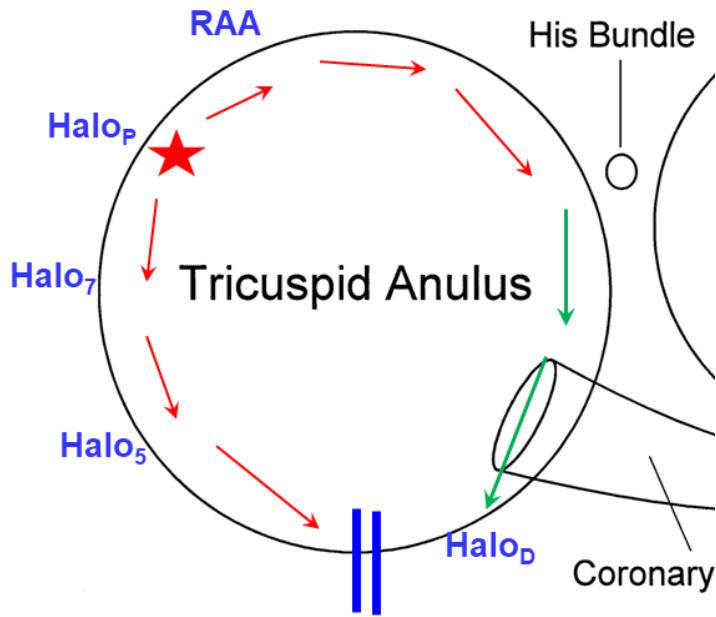


Figure 10.17E

100 ms



★ Pacing site

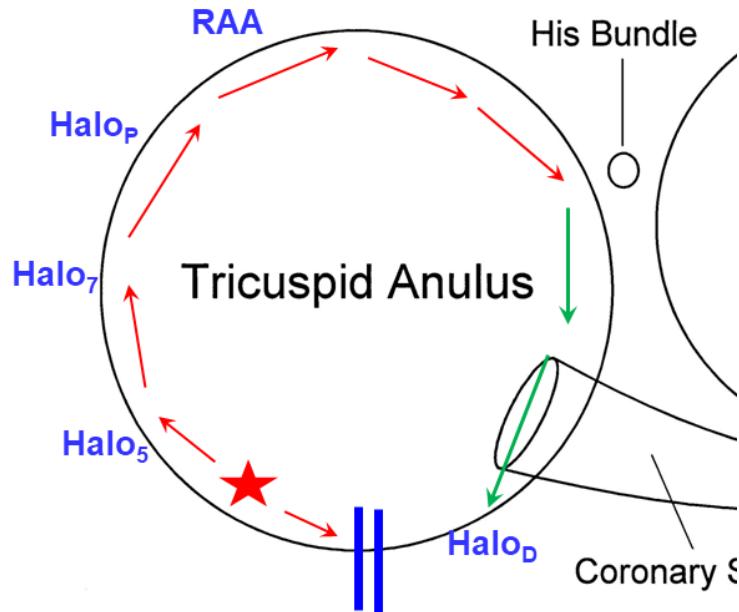


Figure 10.17F

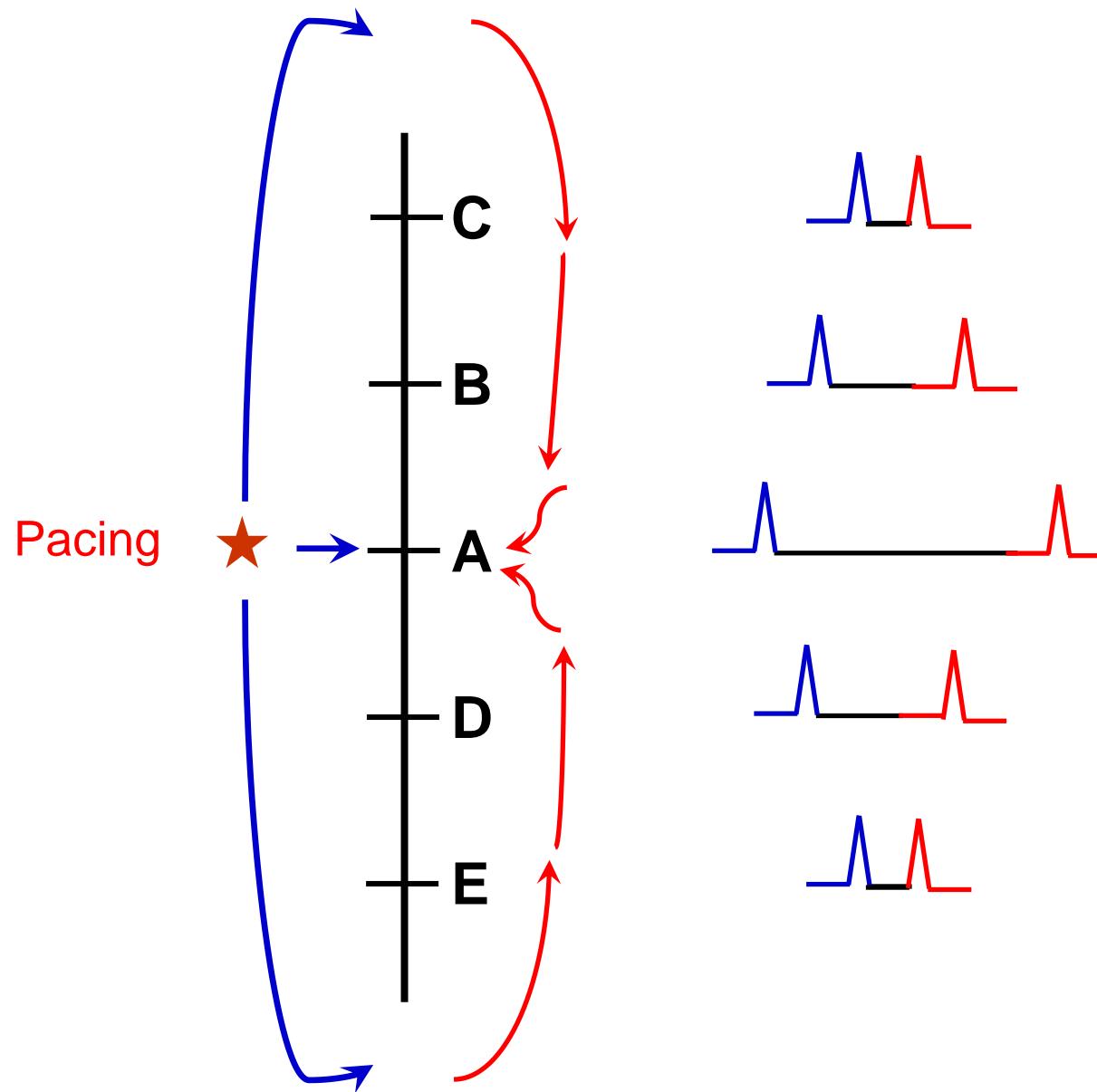


Figure 10.18A

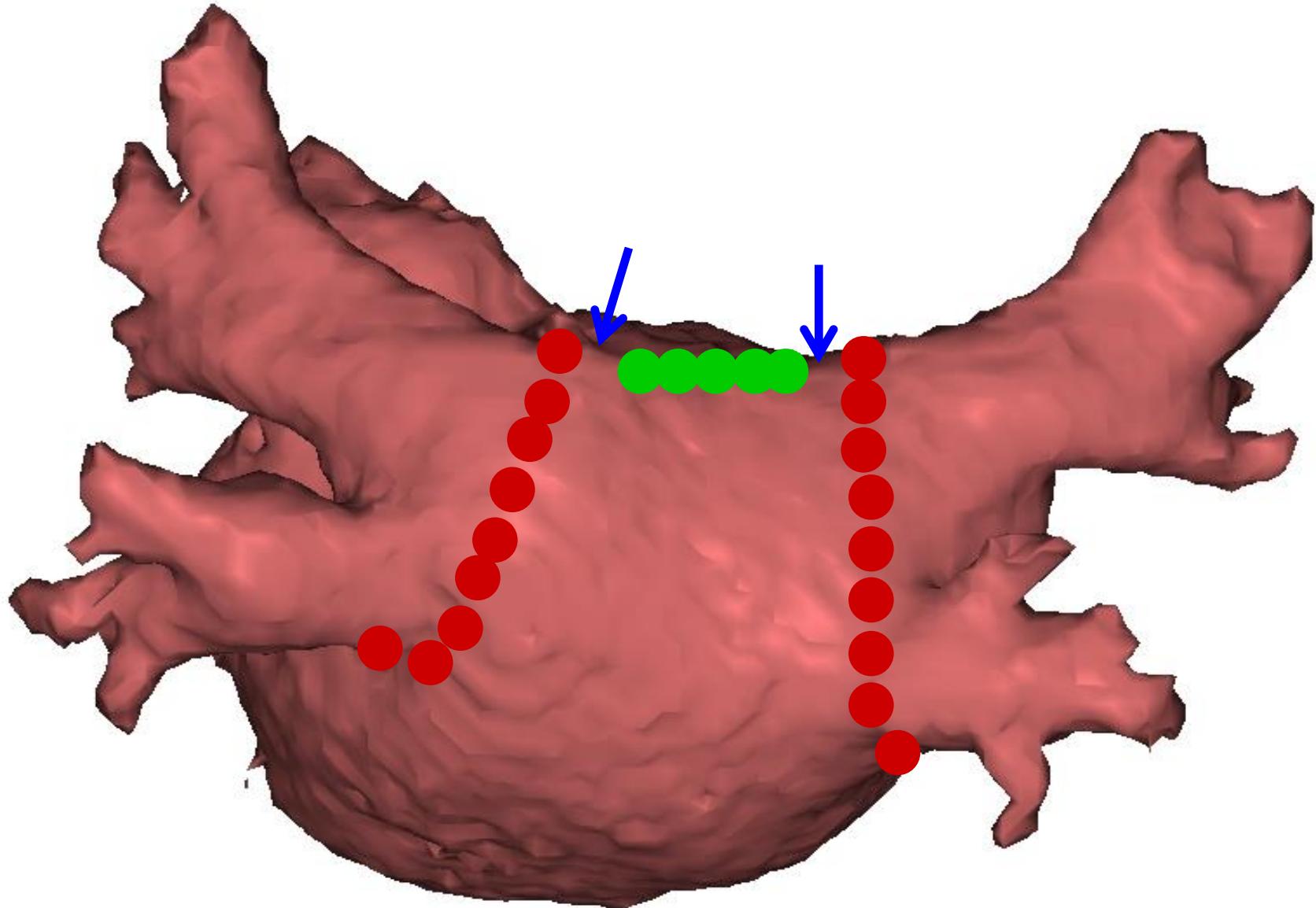


Figure 10.18B

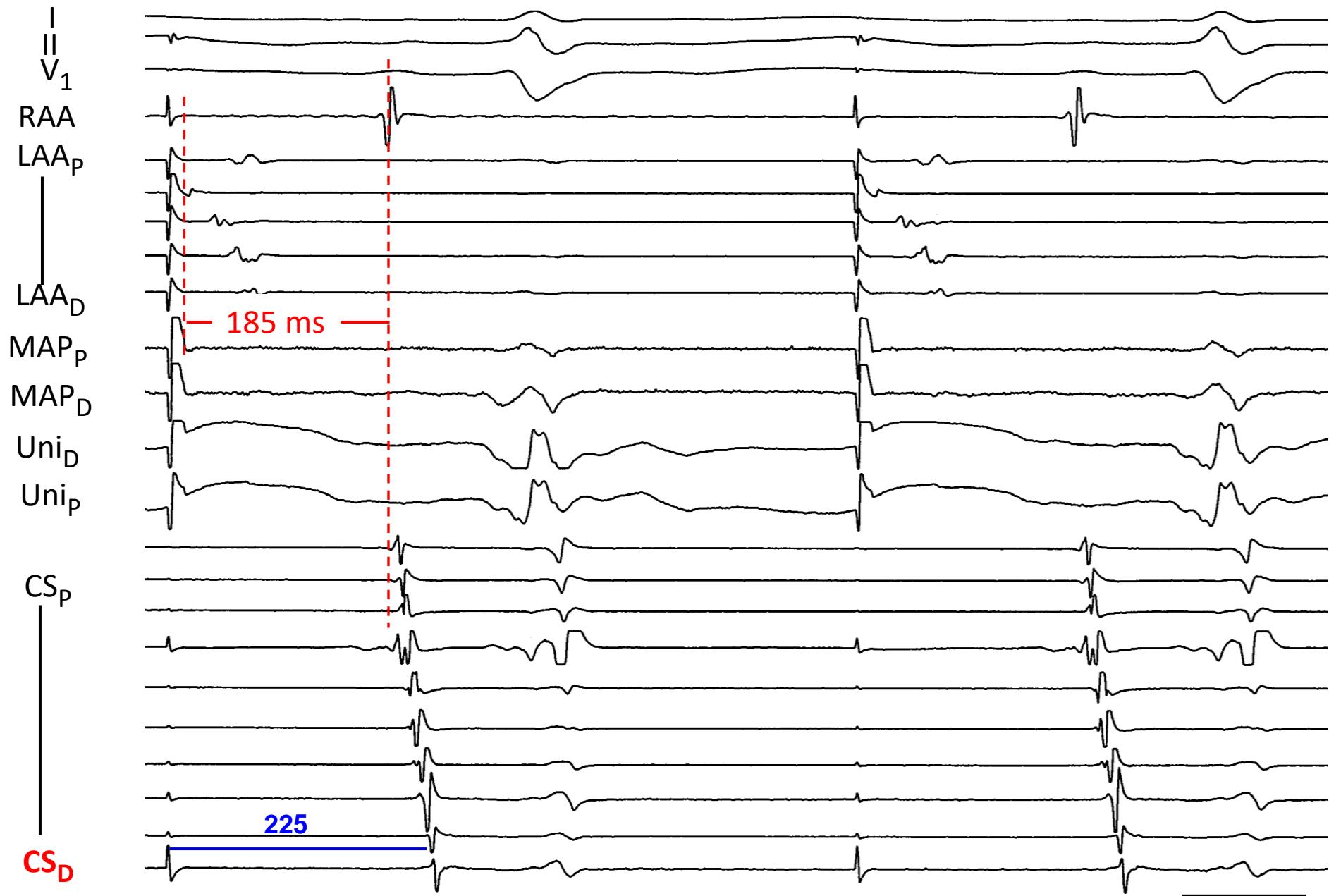


Figure 10.19A

100 ms

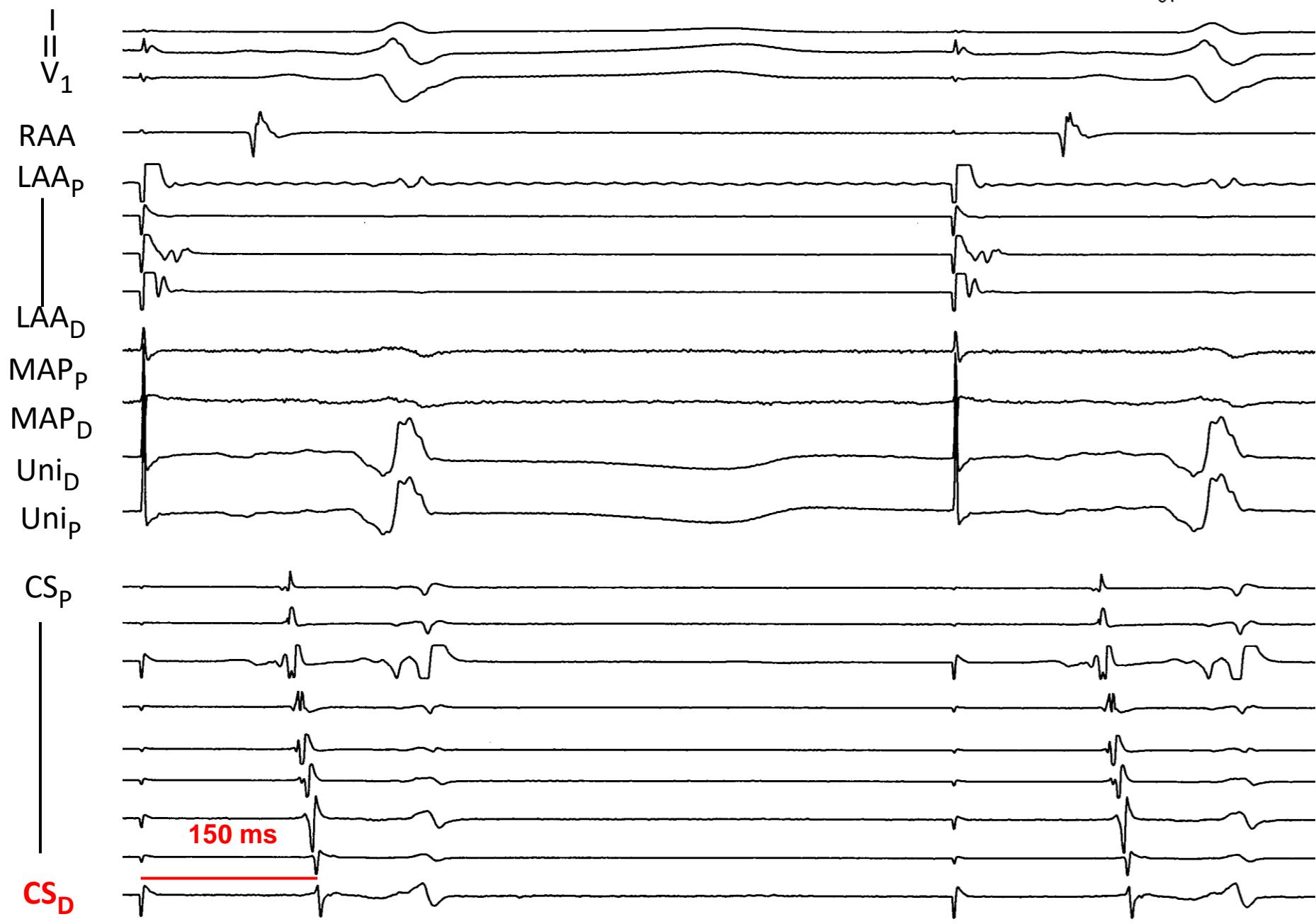
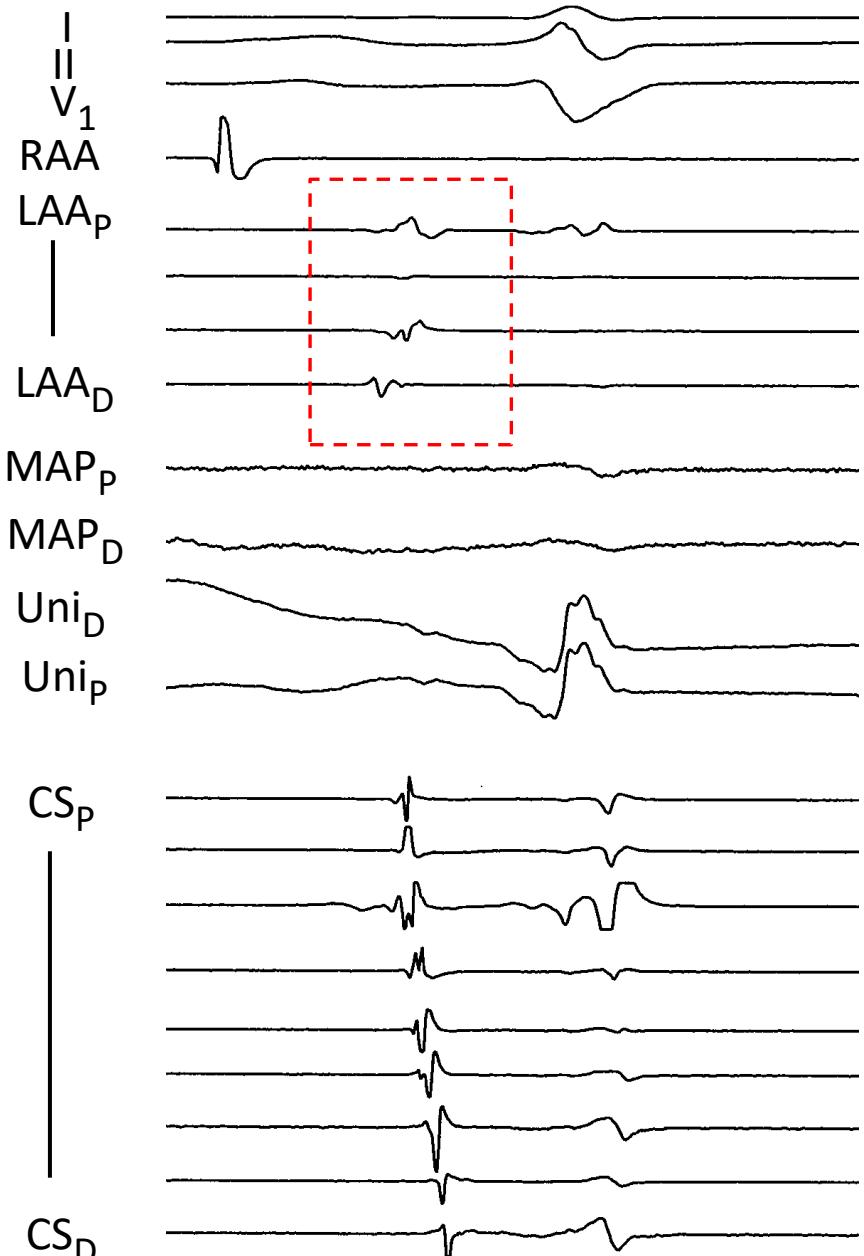


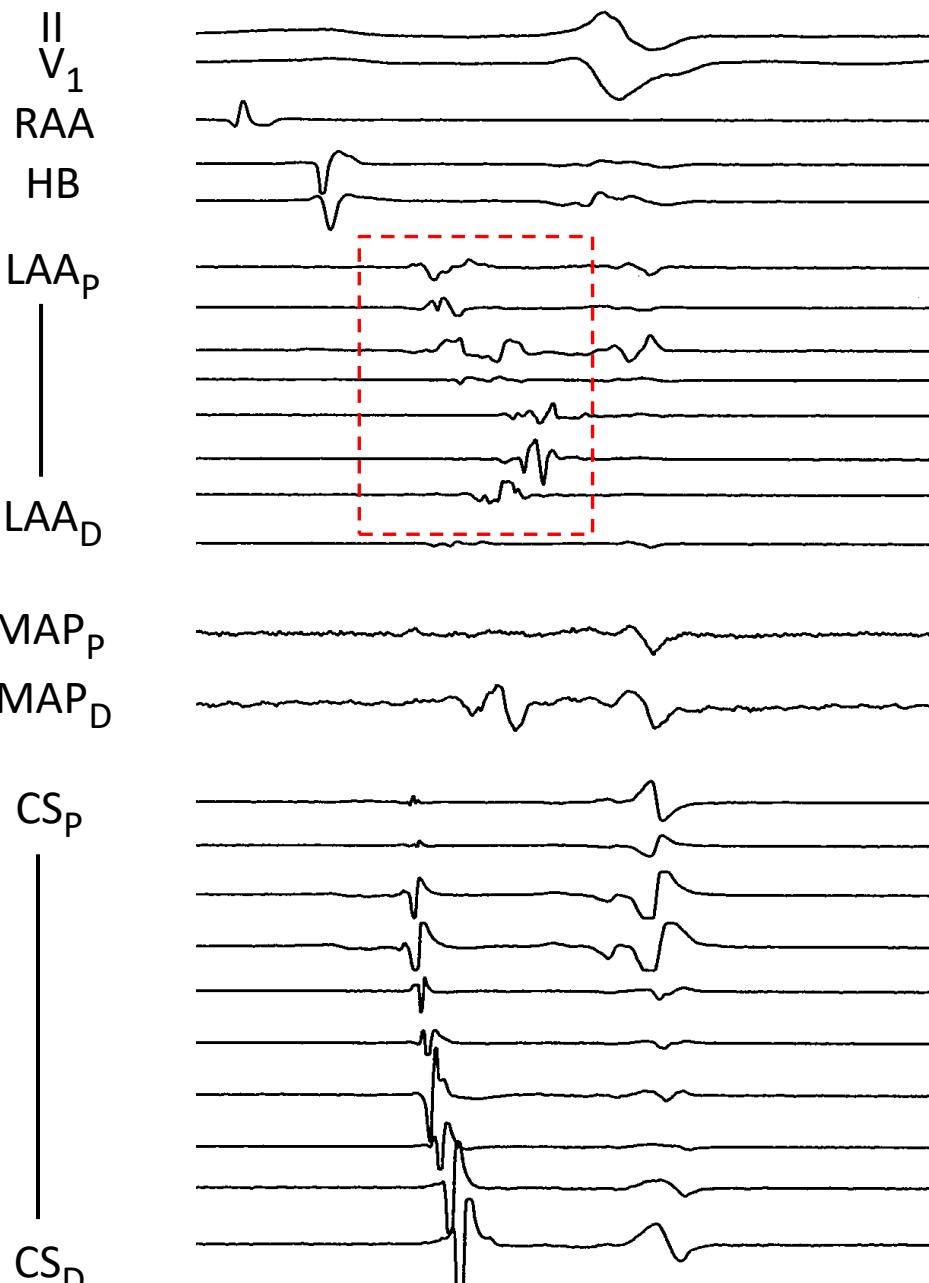
Figure 10.19B

100 ms

### LAA pacing site w/o fractionation



### LAA pacing site w/ fractionation

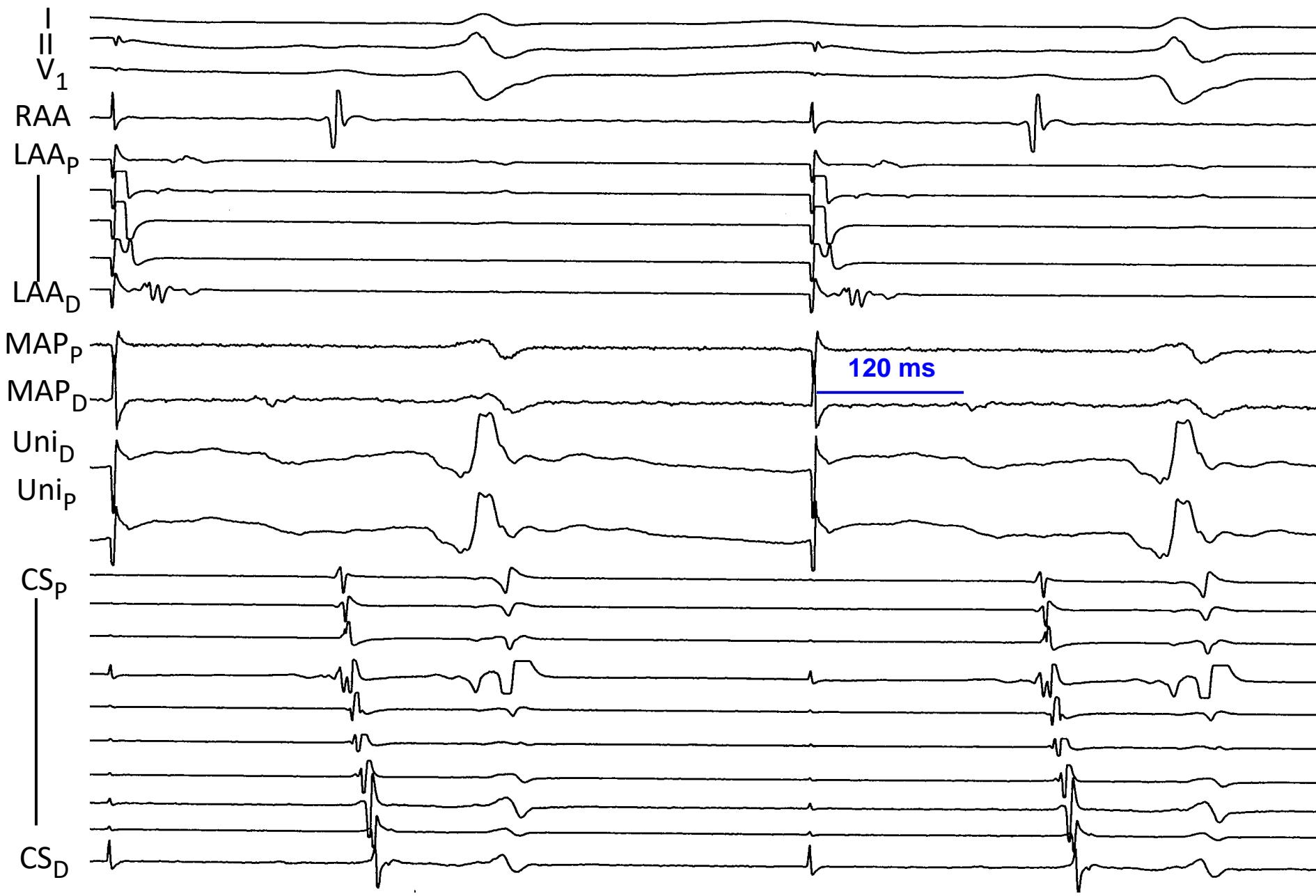


**Figure 10.19C**

## After more ablation



Figure 10.19D



**Figure 10.19E.**

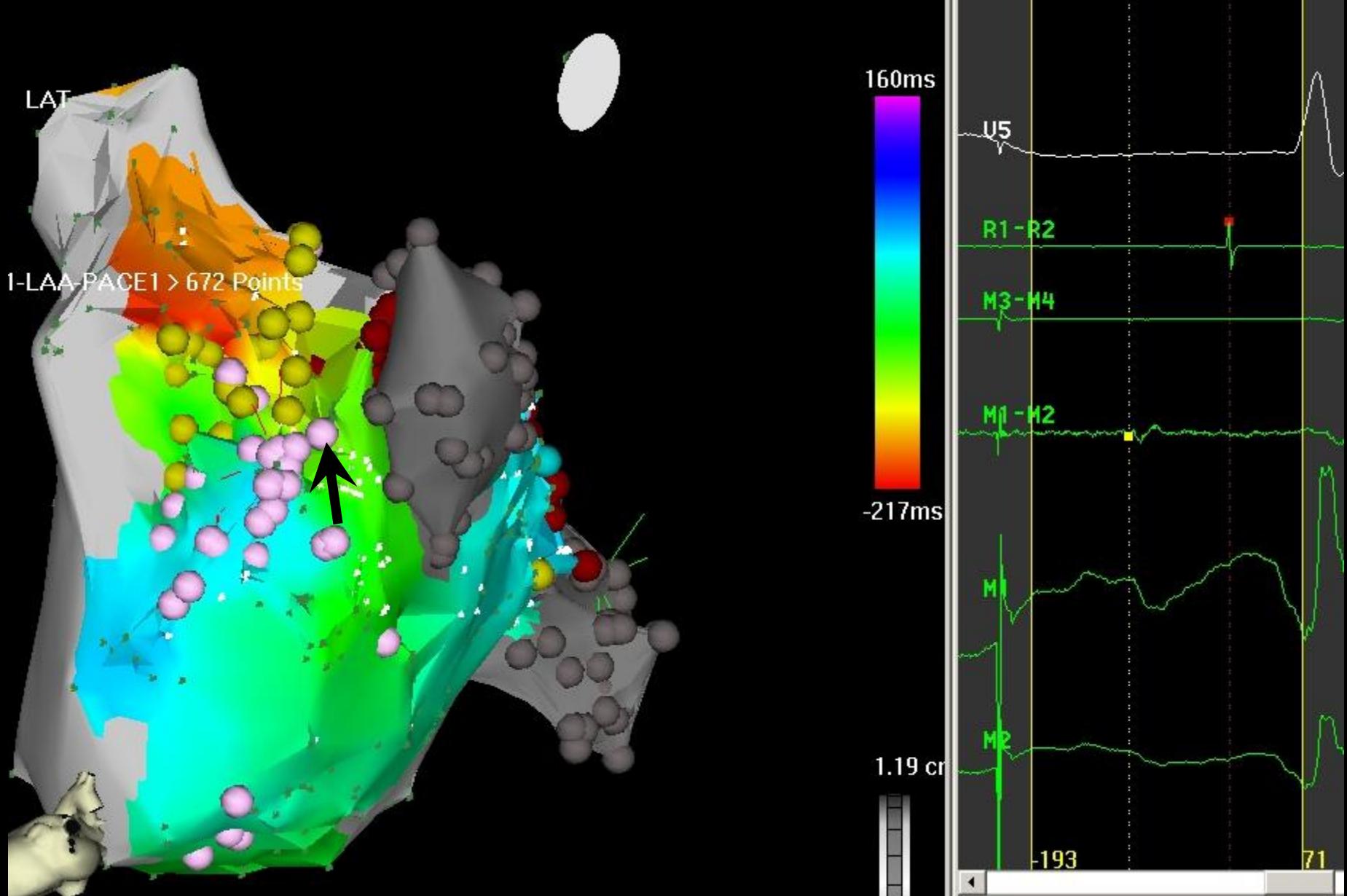


Figure 10.19F

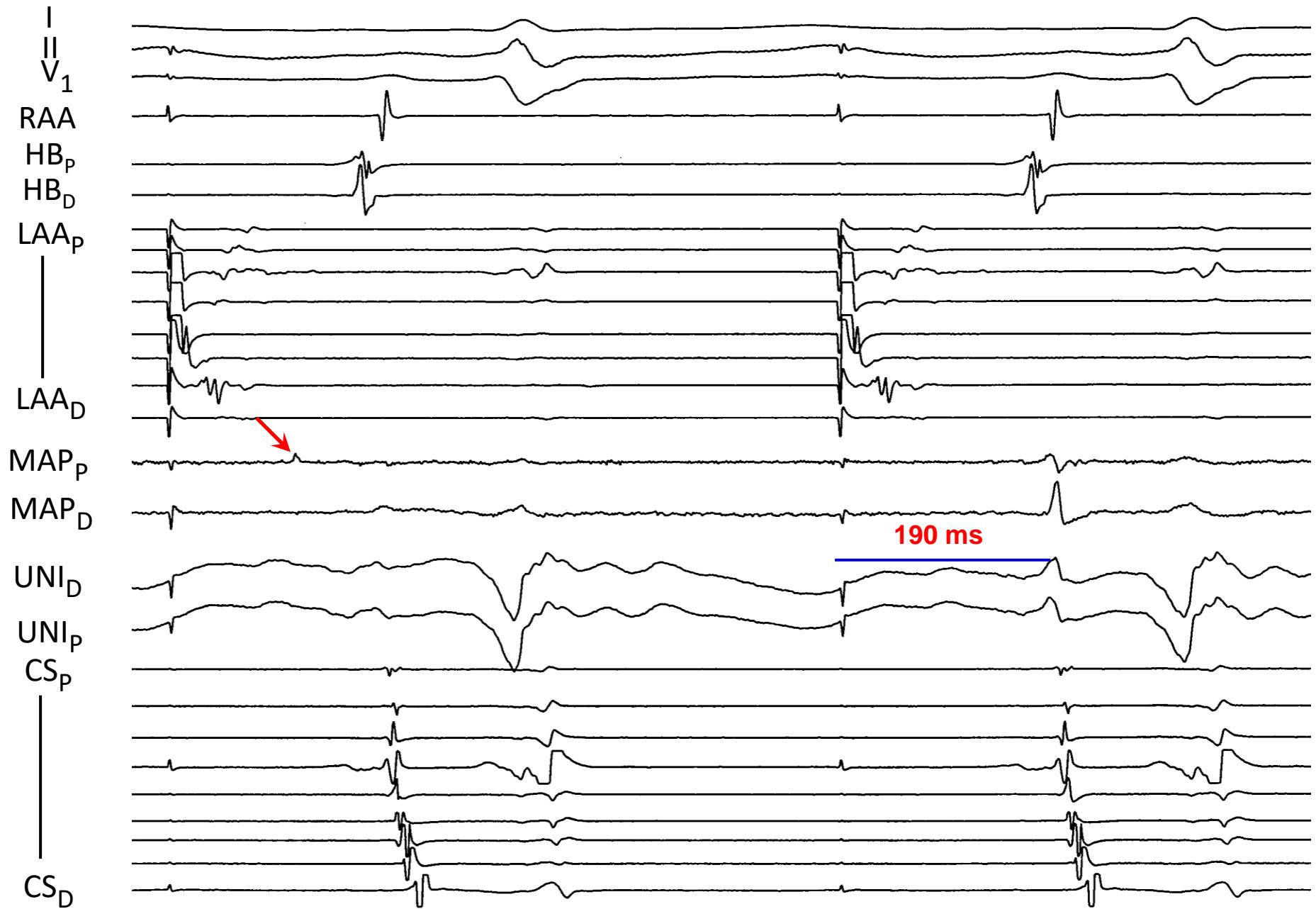
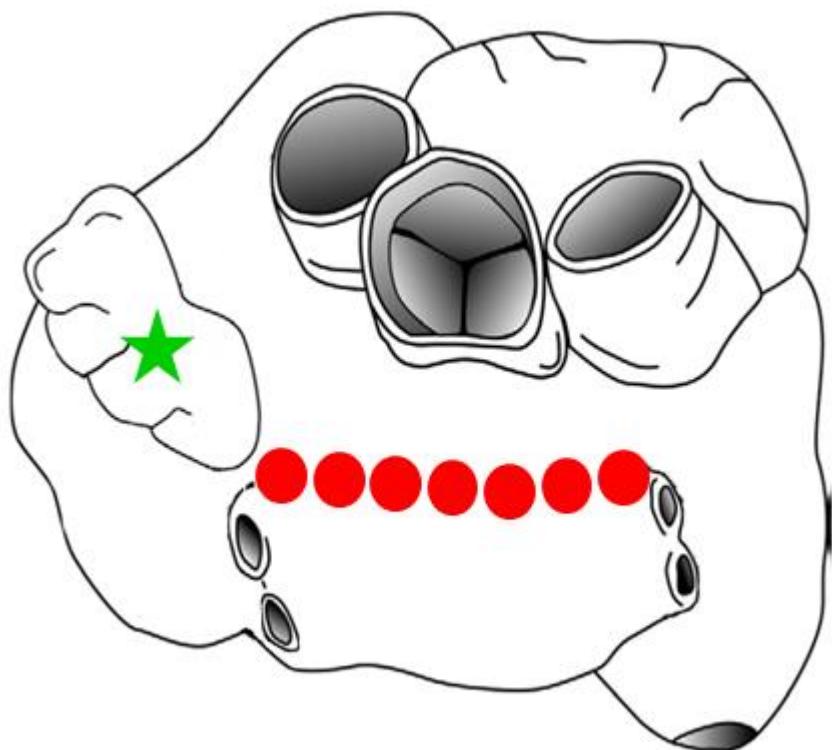


Figure 10.20A.



**Figure 10.20B.**

Pacing LAA



Pacing Bachmann's  
bundle or high posterior wall

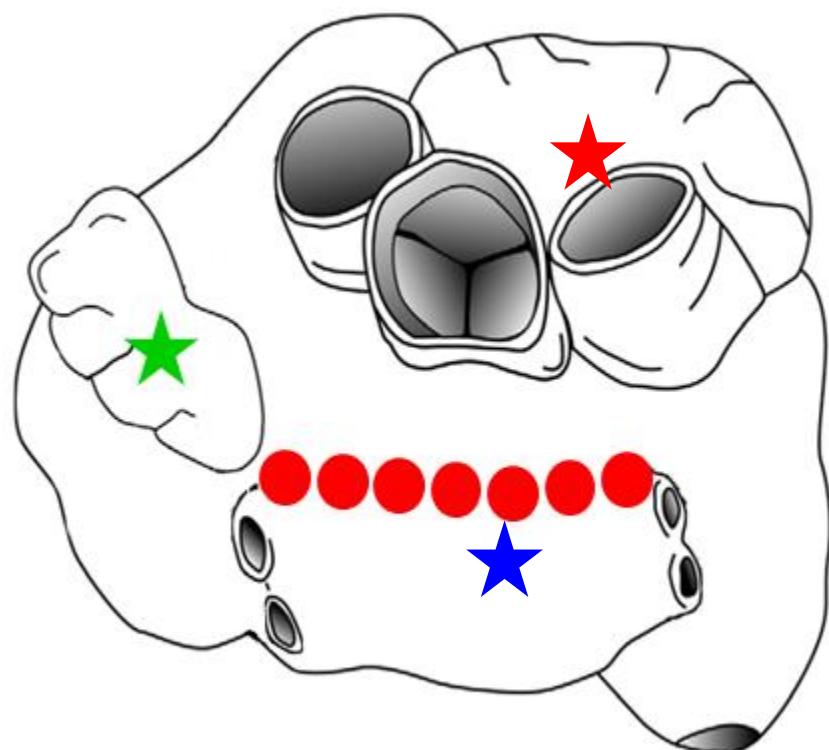


Figure 10.21A.

RAO

LAO

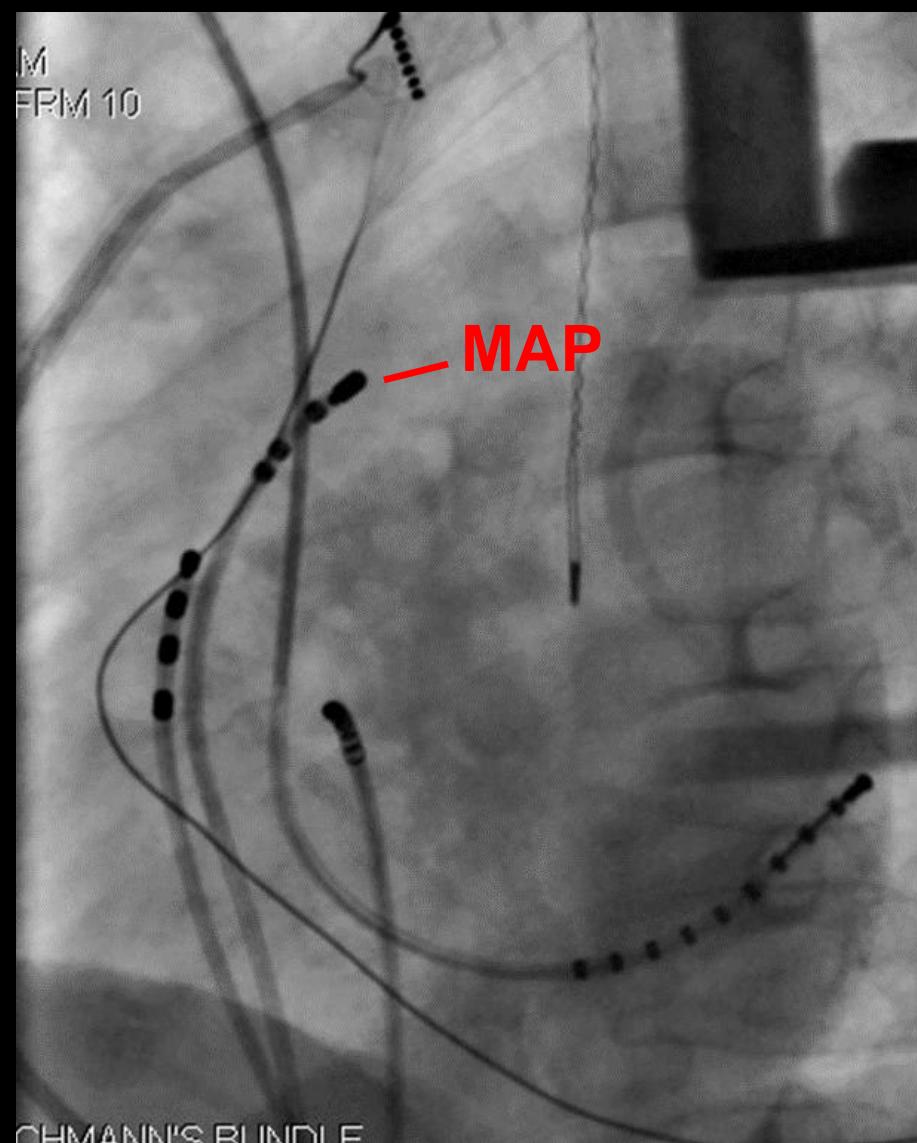
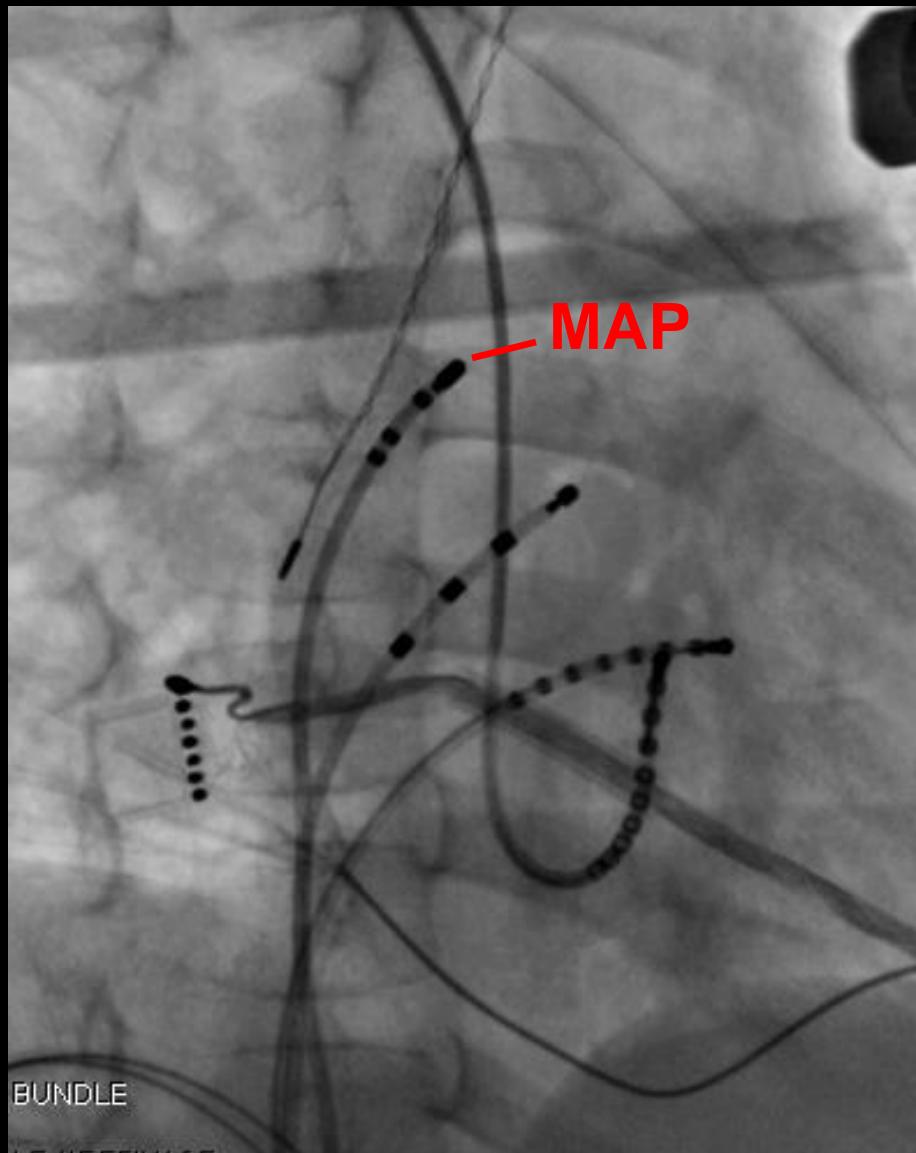
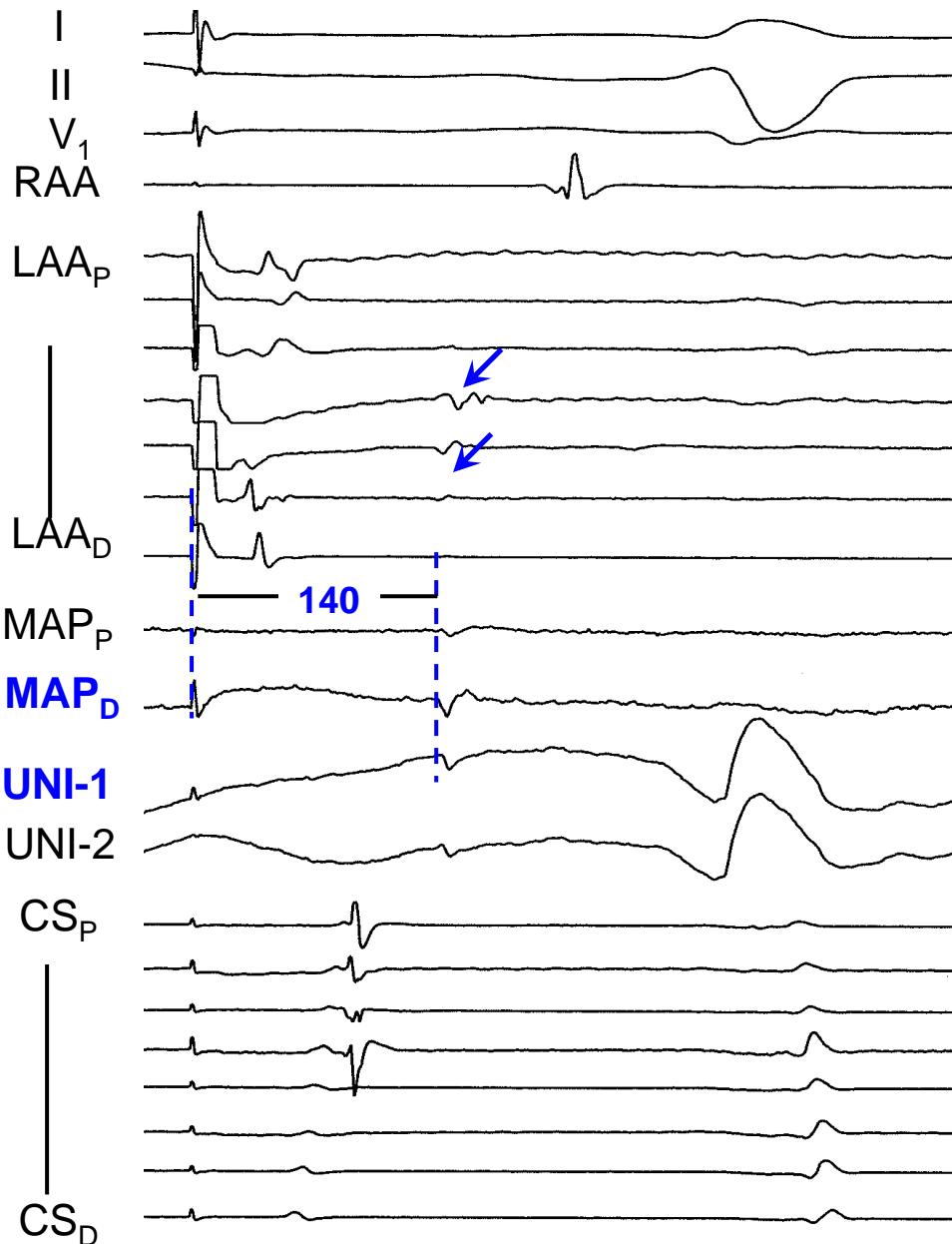
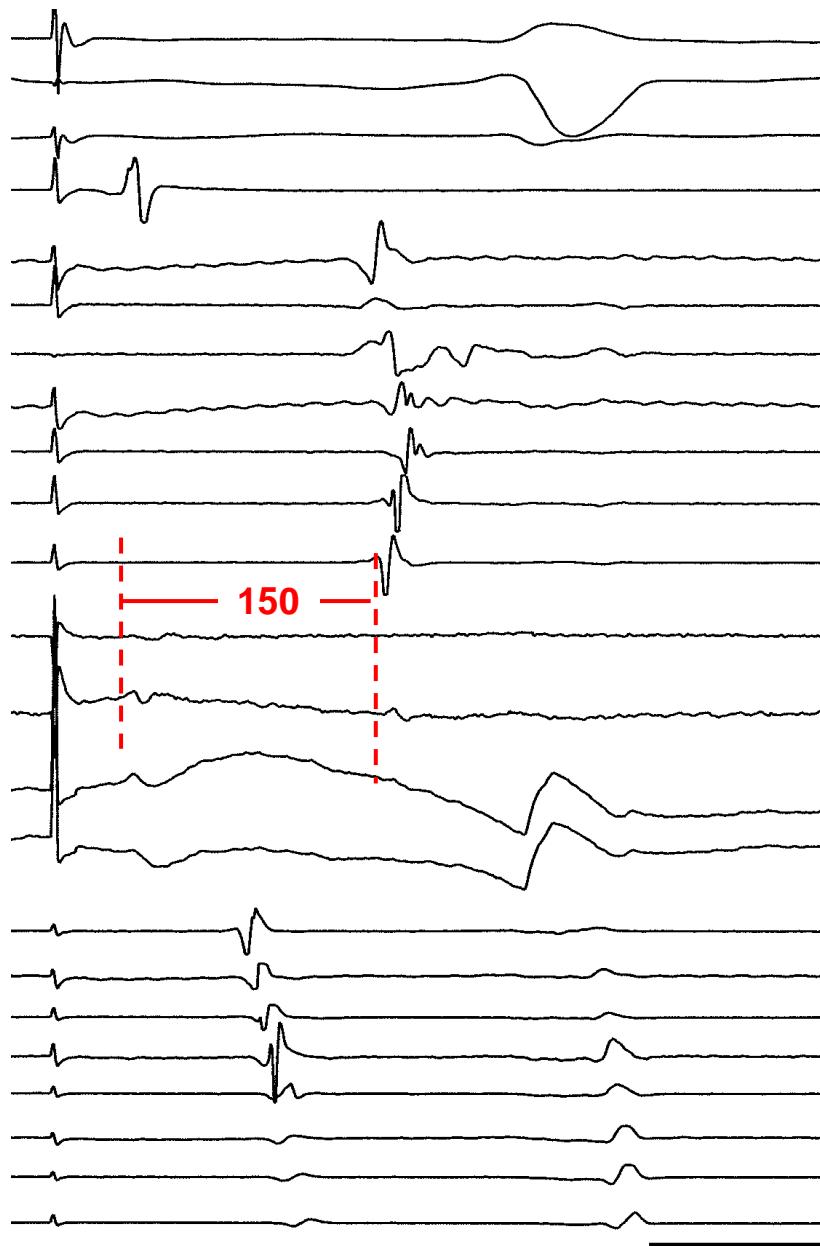


Figure 10.21B.

### Pace from LAA



### Pace from Bachmann's BUndle



**Figure 10.21C.**

100 ms

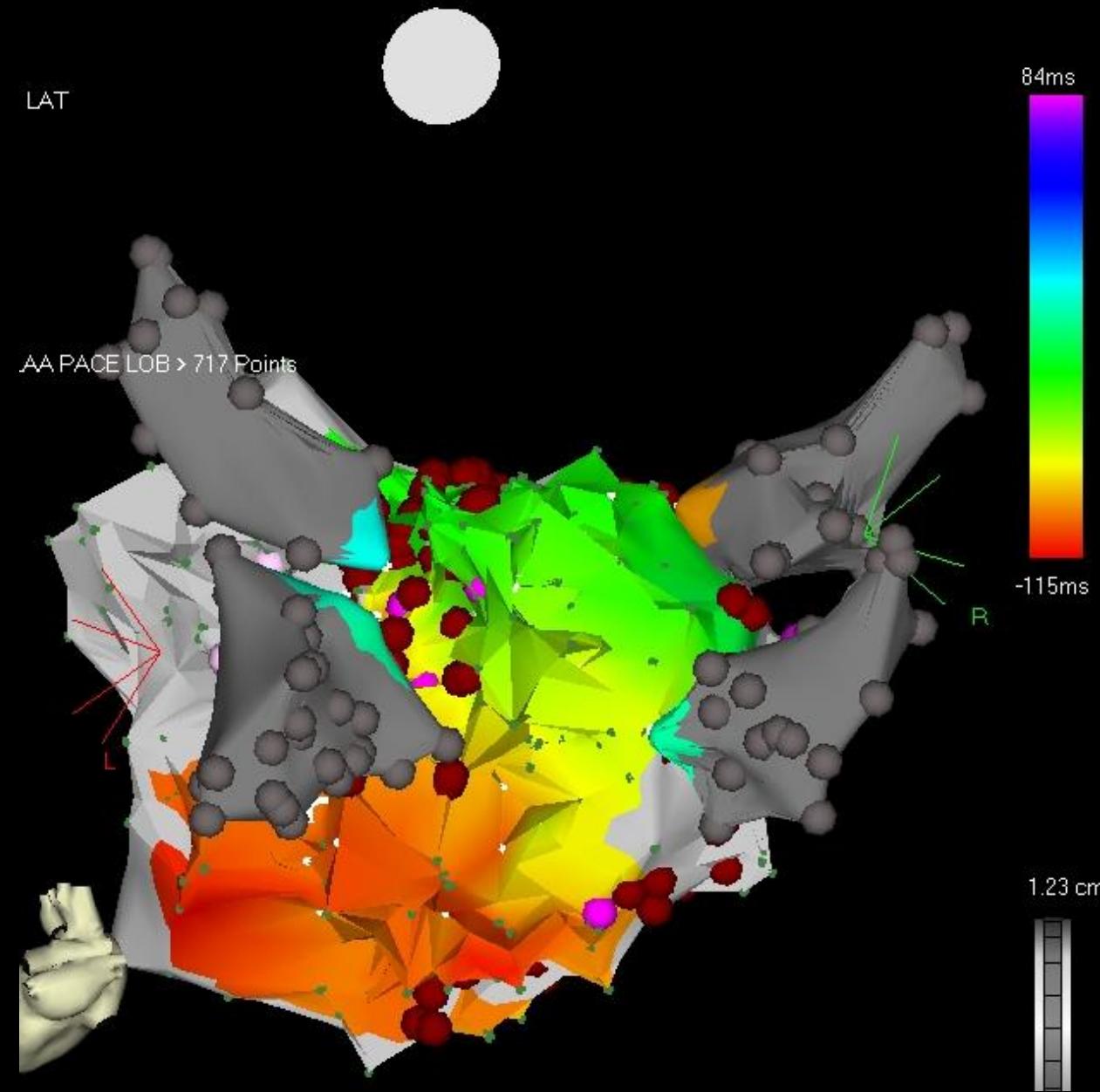
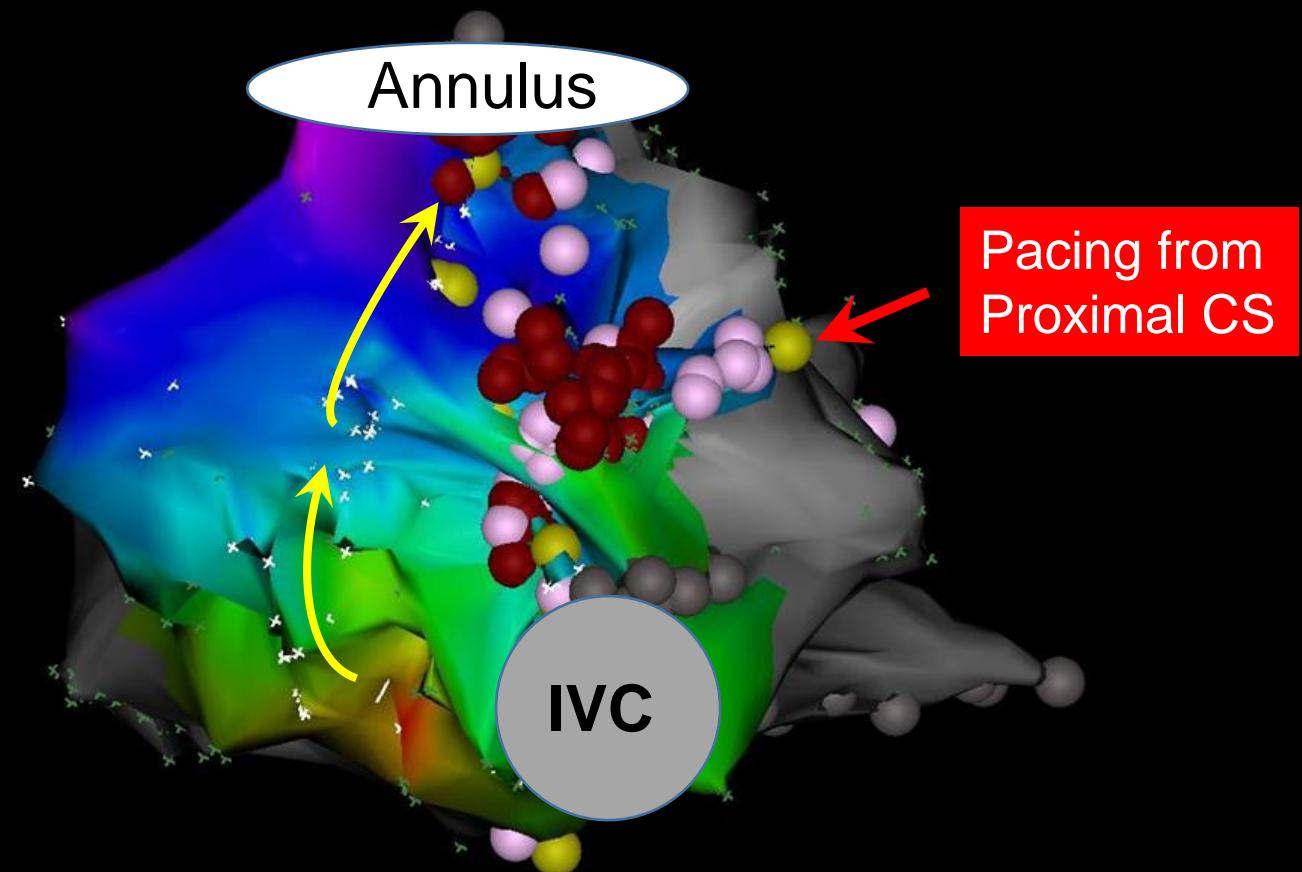


Figure 10.21D.

126 ms

LAT

163 ms



LAO Caudal View

Figure 10.22A

154 ms      LAT      232 ms



Pacing Site

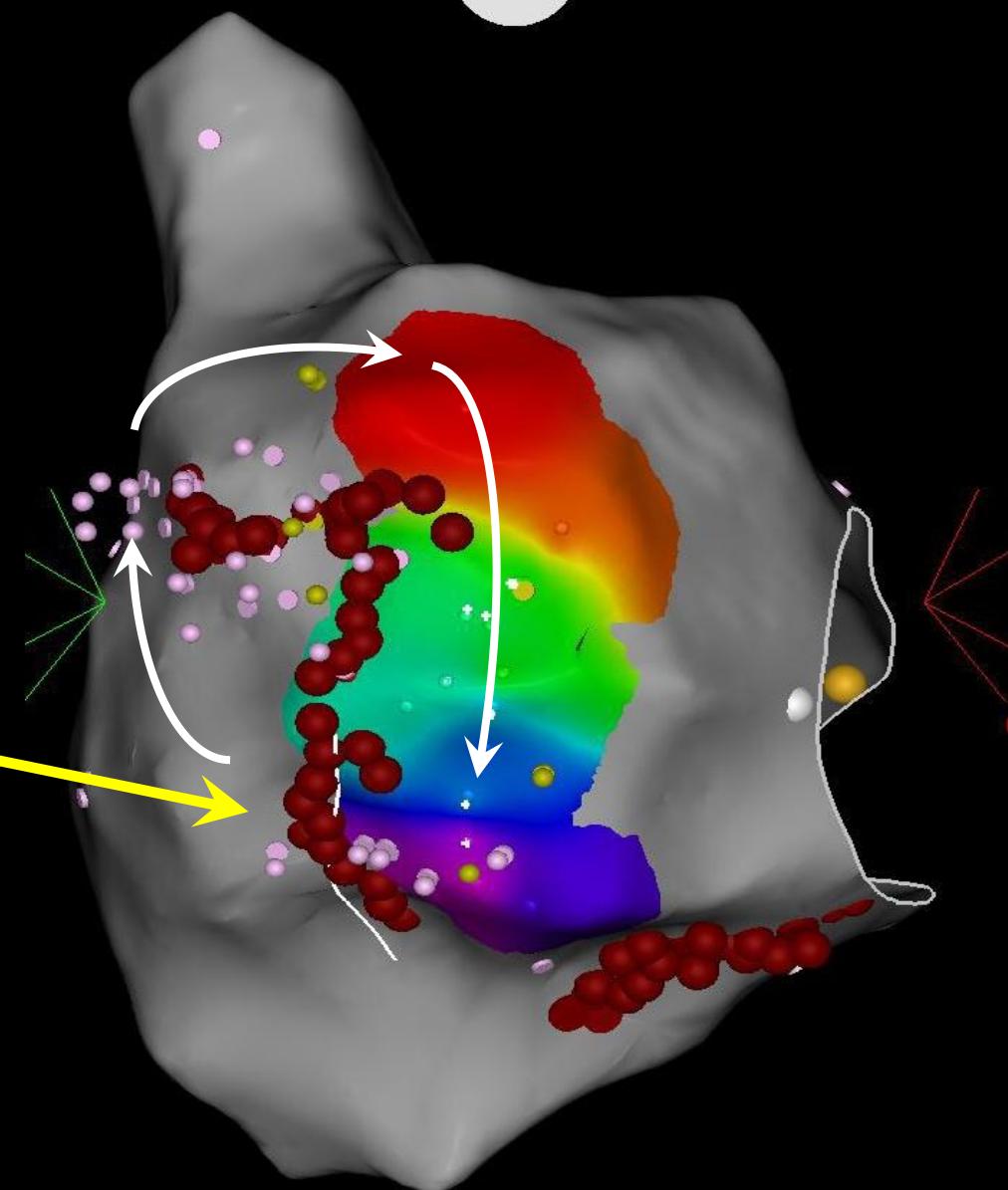
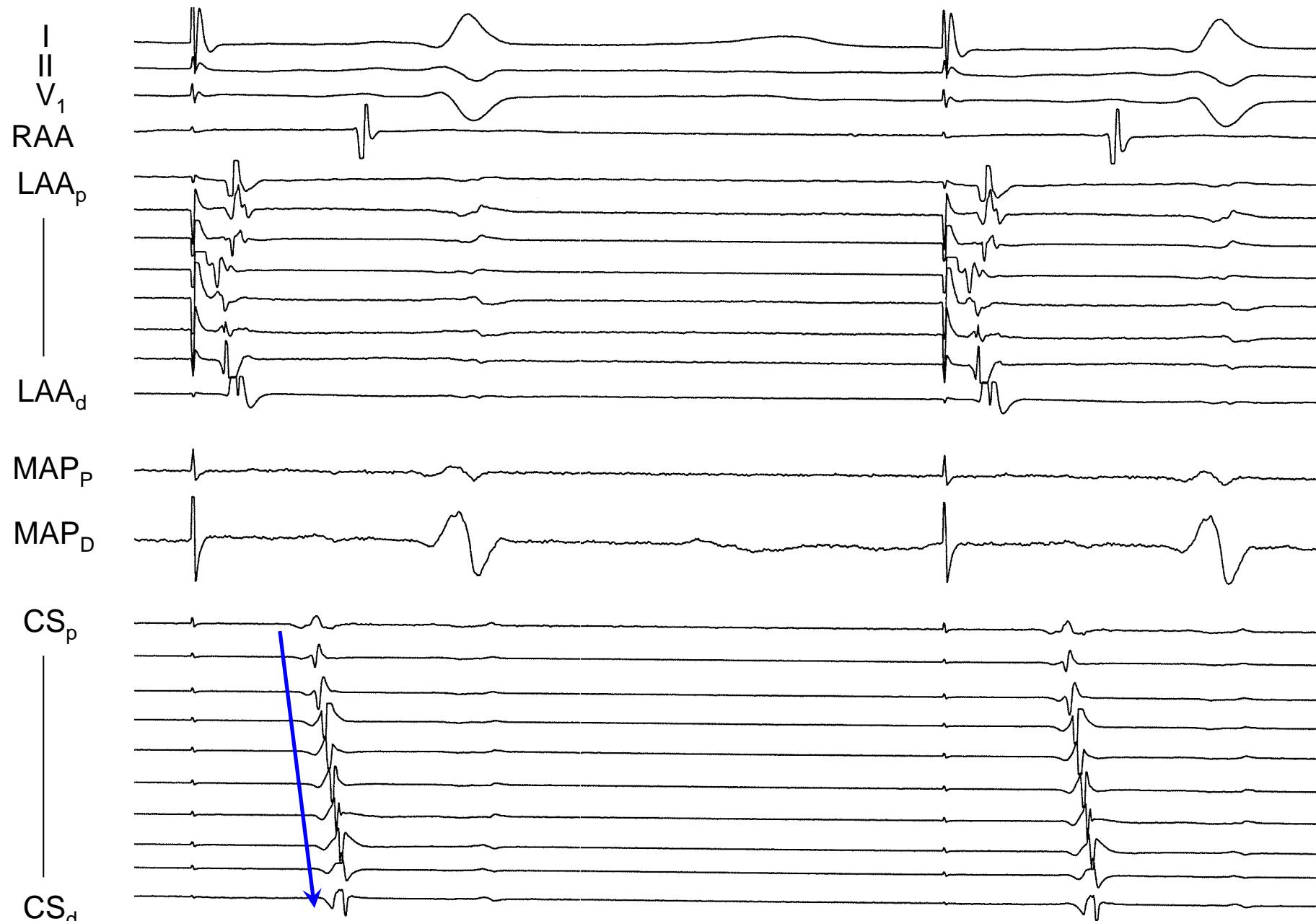


Figure 10.22B.



**Figure 10.23A**

100 ms



**Figure 10.23B**

100 ms

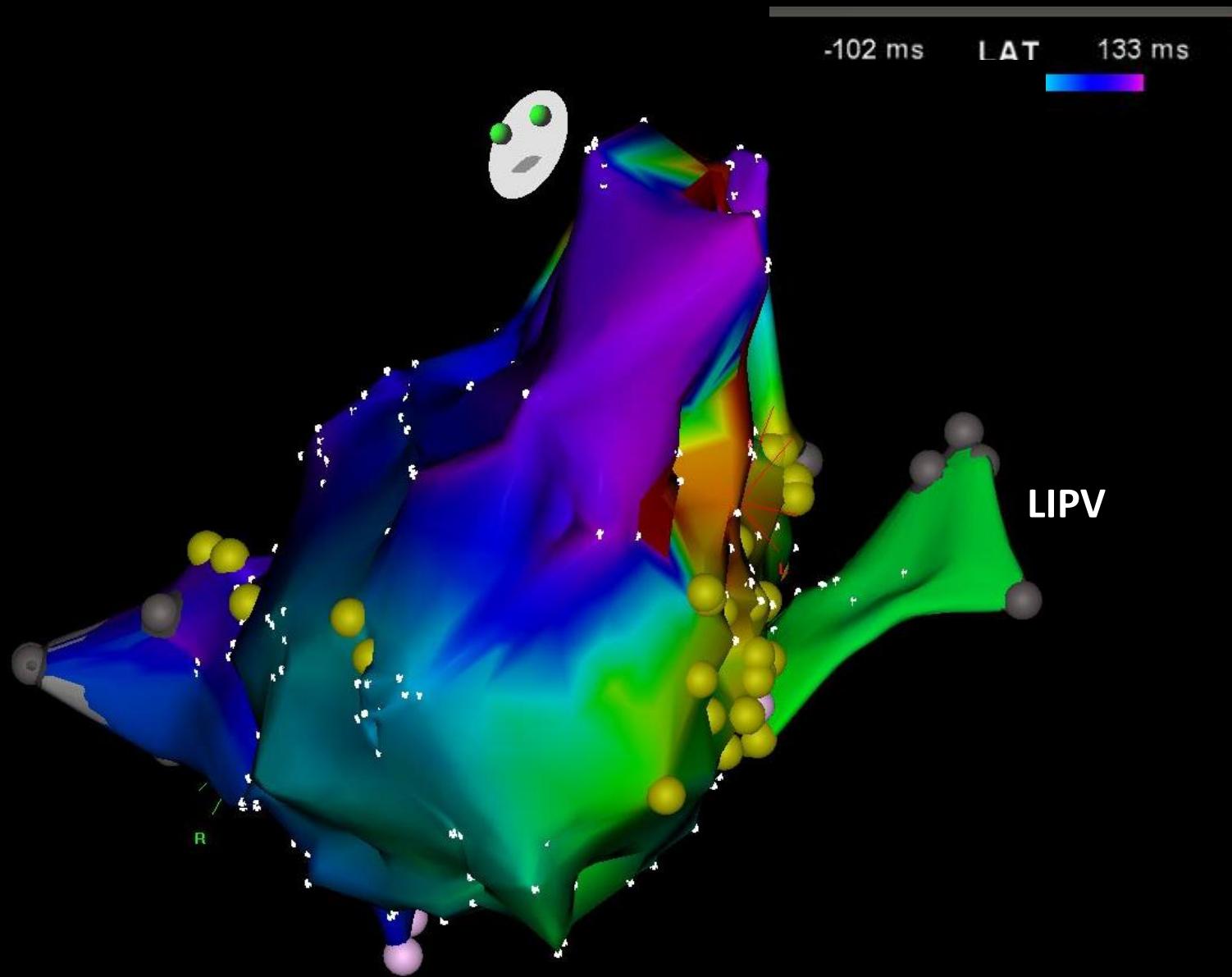


Figure 10.23C

i-LA-ATT (344, 0)

-102 ms LAT 133 ms

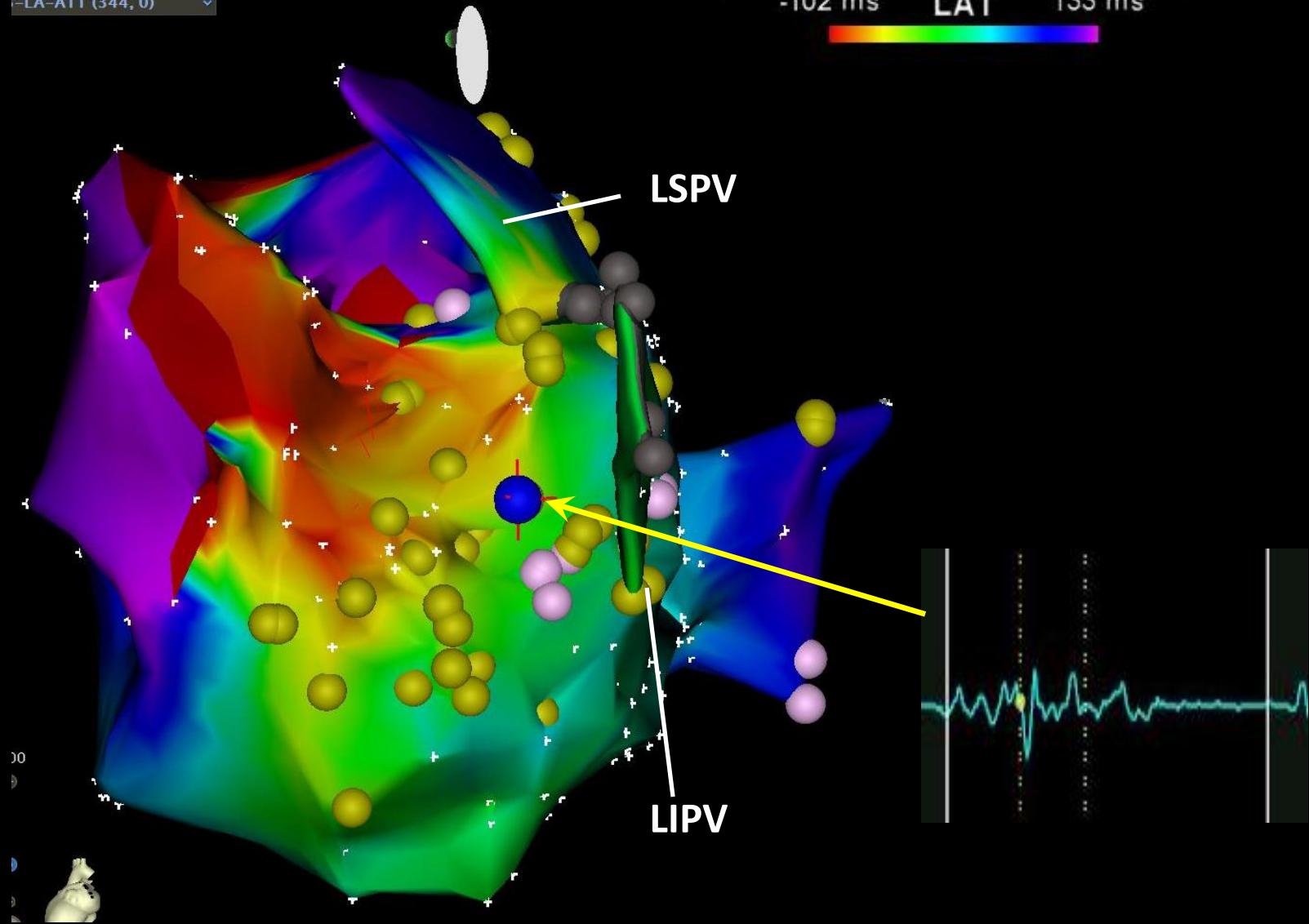


Figure 10.23D