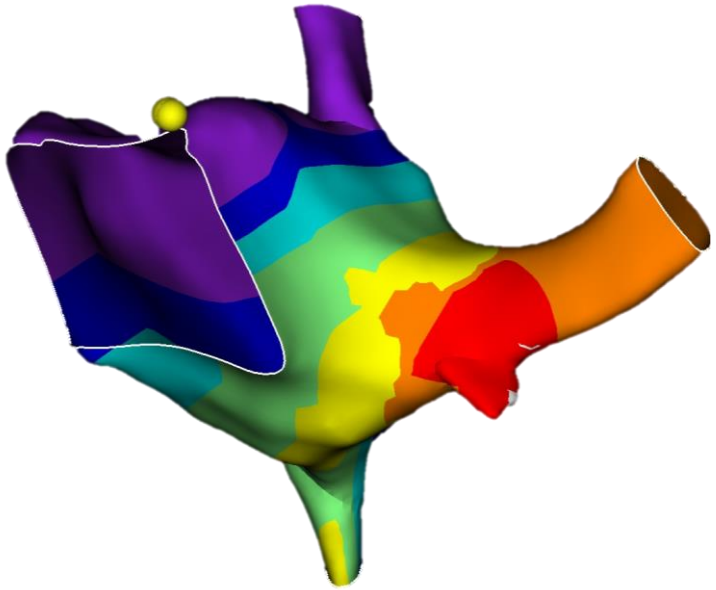
LIVE IN A BOX SESSION

AI-guided tailored ablation



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ELECTRA & RHYTHM

18-21 MAY 2022

Disclosures:

None

58y male

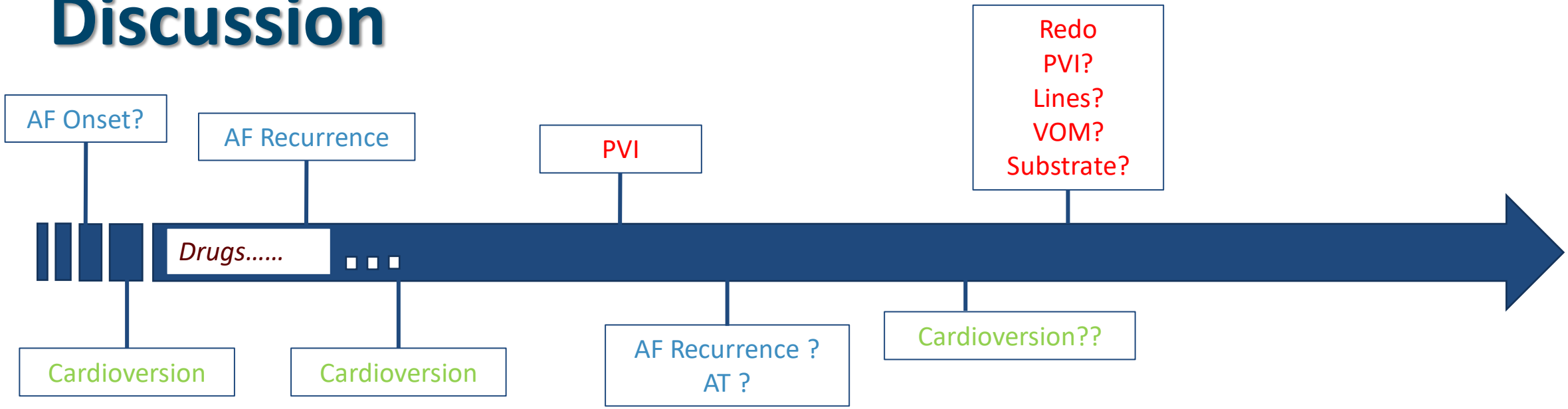
- VSD surgical correction 1989 – LVOT patch
- HT
- Flutter (CTI ablation 2019), tachycardiomyopathy

Persistent AF since 2021 april

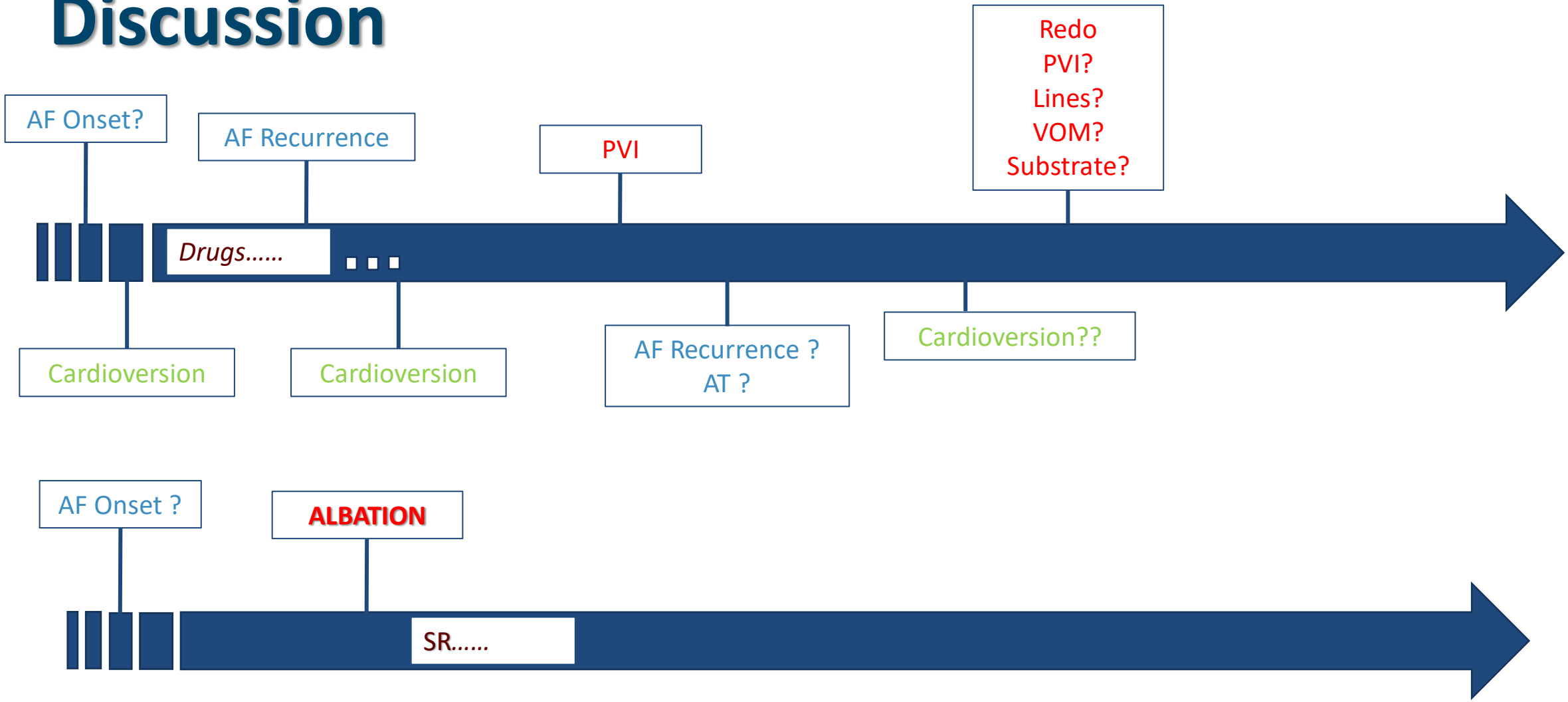
- fatigue
- LVEF 60%,
- LA 57 mm diameter - 40 cm^2 surface
- Amiodarone, Irbesartan, Apixaban

Patient referred in January 2022 to discuss AF strategy
(remember : Covid year…)

Discussion


AF Onset?
AF Recurrence
PVI
Redo
PVI?
Lines?
VOM?
Substrate?
Drugs……
Cardioversion
Cardioversion
AF Recurrence ?
AT ?
Cardioversion??

Discussion


AF Onset?
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VOM?
Substrate?
Drugs……
Cardioversion
Cardioversion
AF Recurrence ?
AT ?
Cardioversion??
AF Onset ?
ALBATION
SR……

Our center:

substrate approach for many years

CFE's

Scare

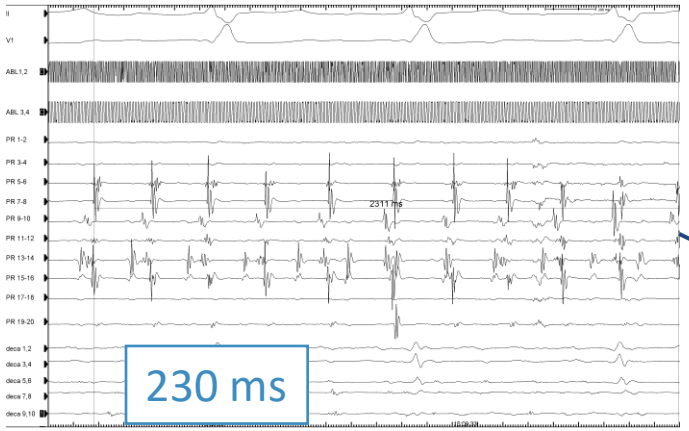
Dispersion

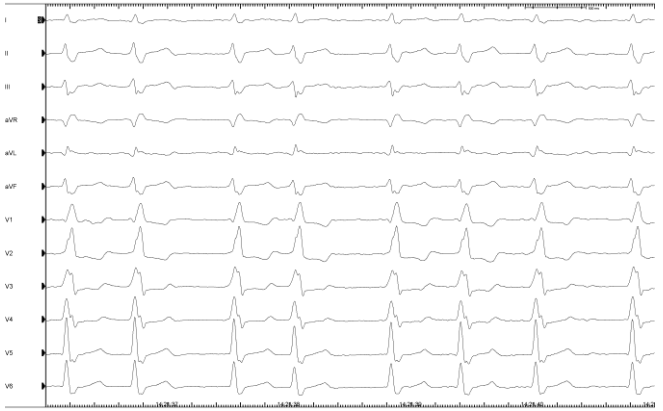
Current study:

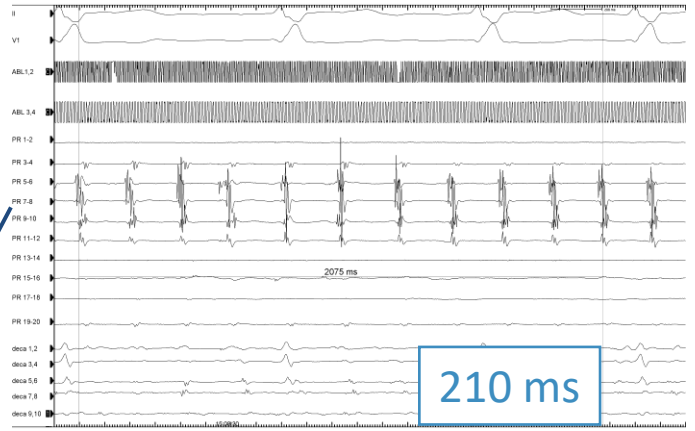
AI guided ablation

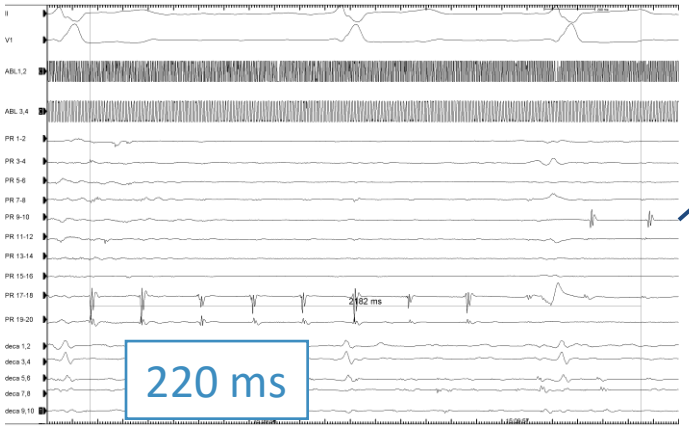
VOLTA MEDICAL

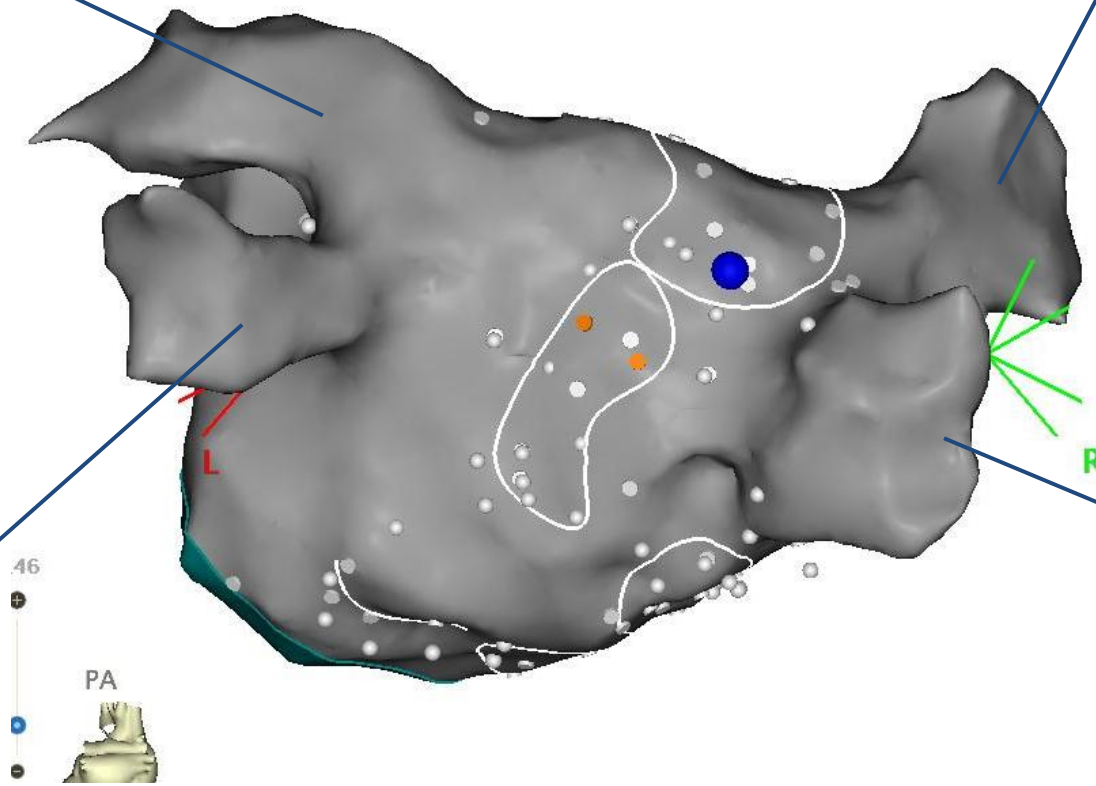
The Tailored-AF trial

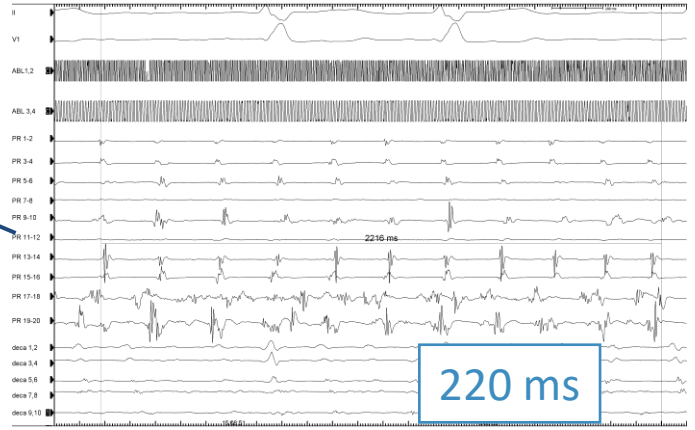

230 ms

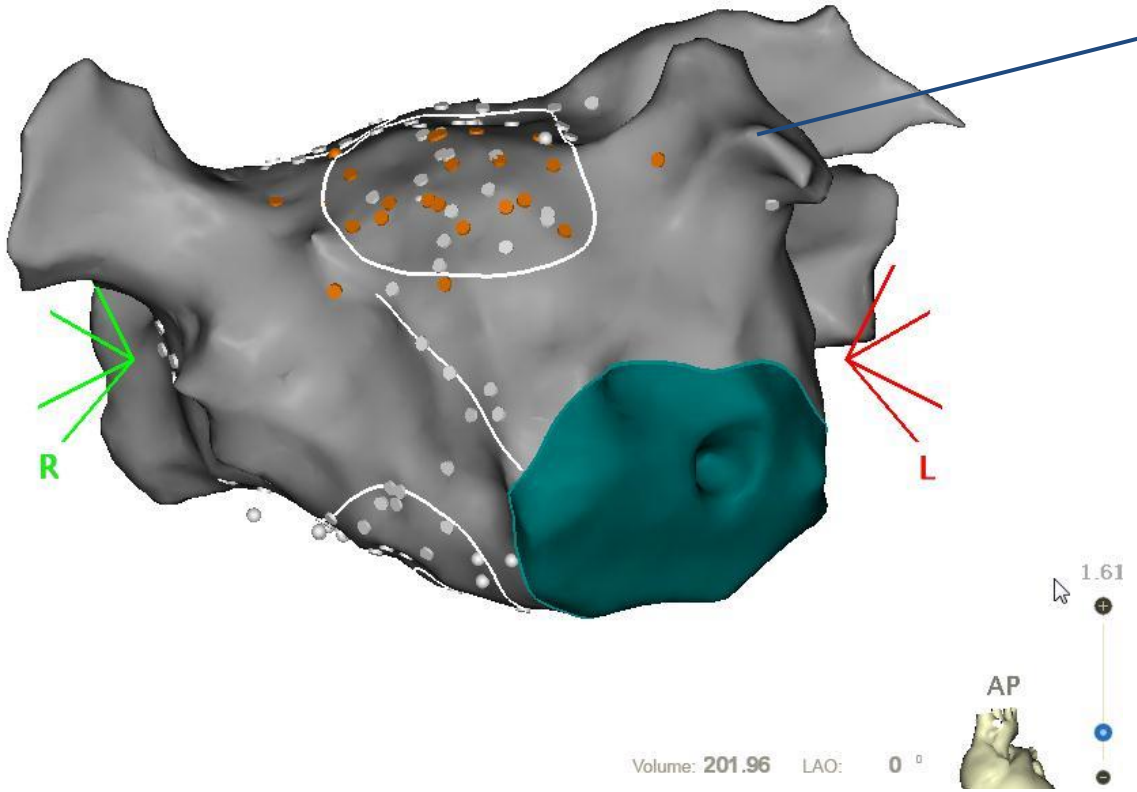


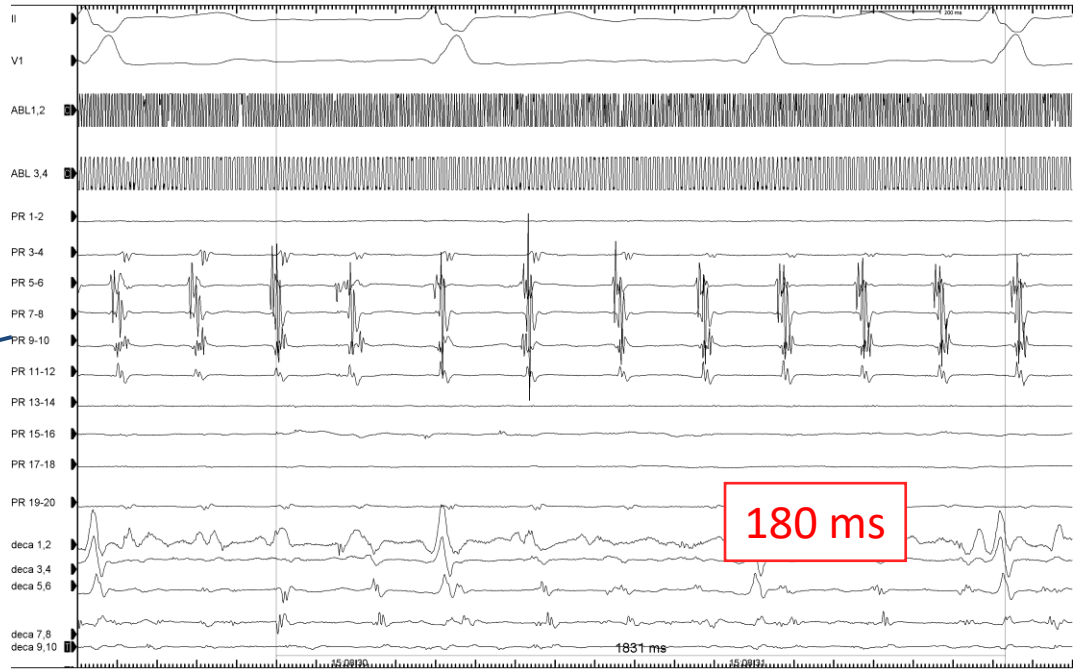

210 ms


220 ms

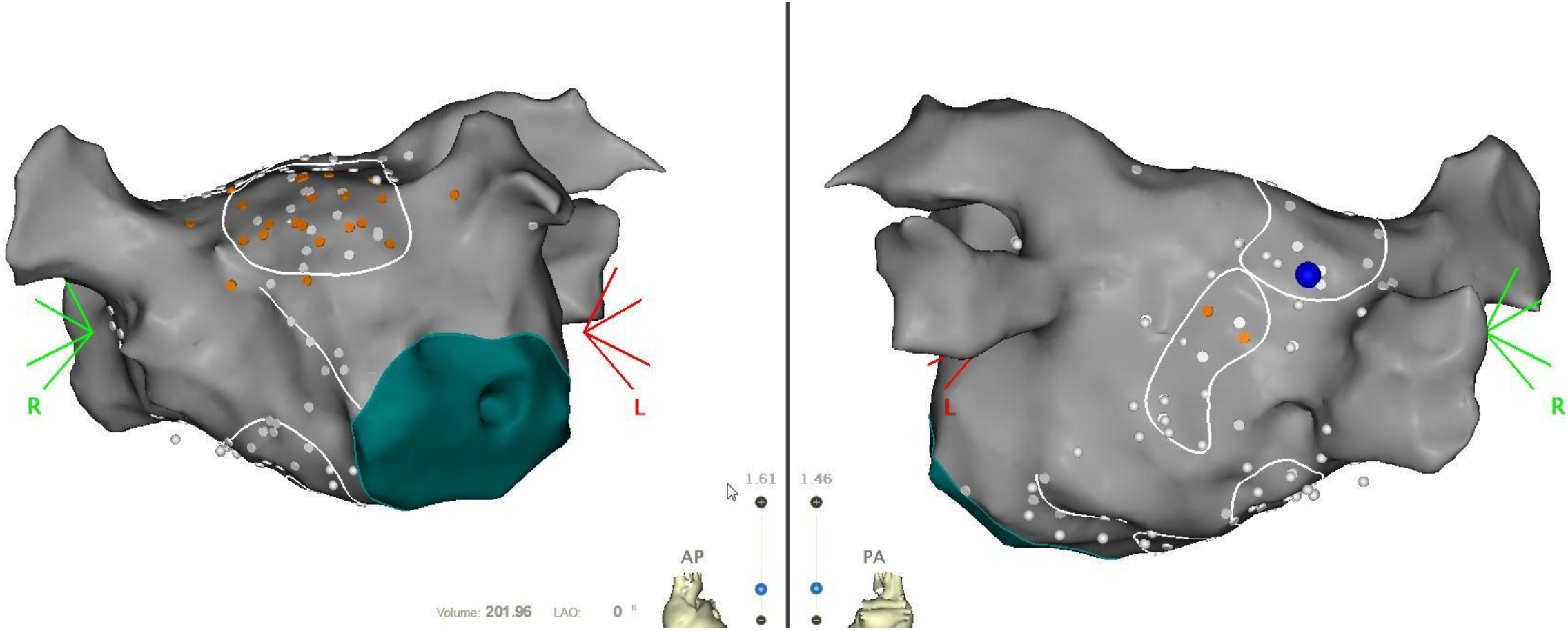

L
R
46
PA


220 ms

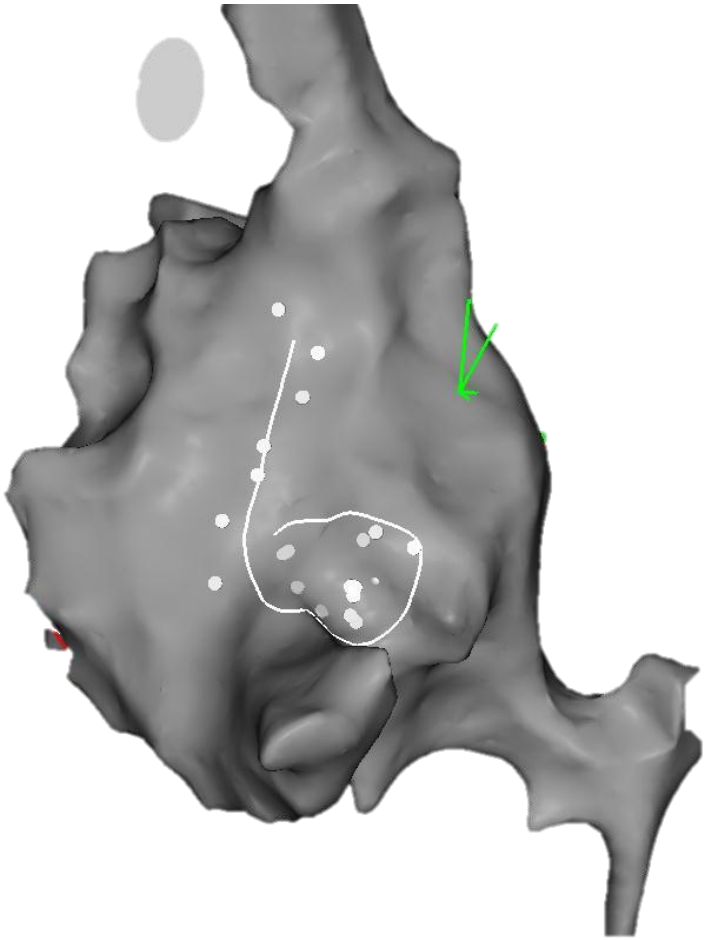

R
L
1.61
AP
Volume: 201.96
LAO: 0 °

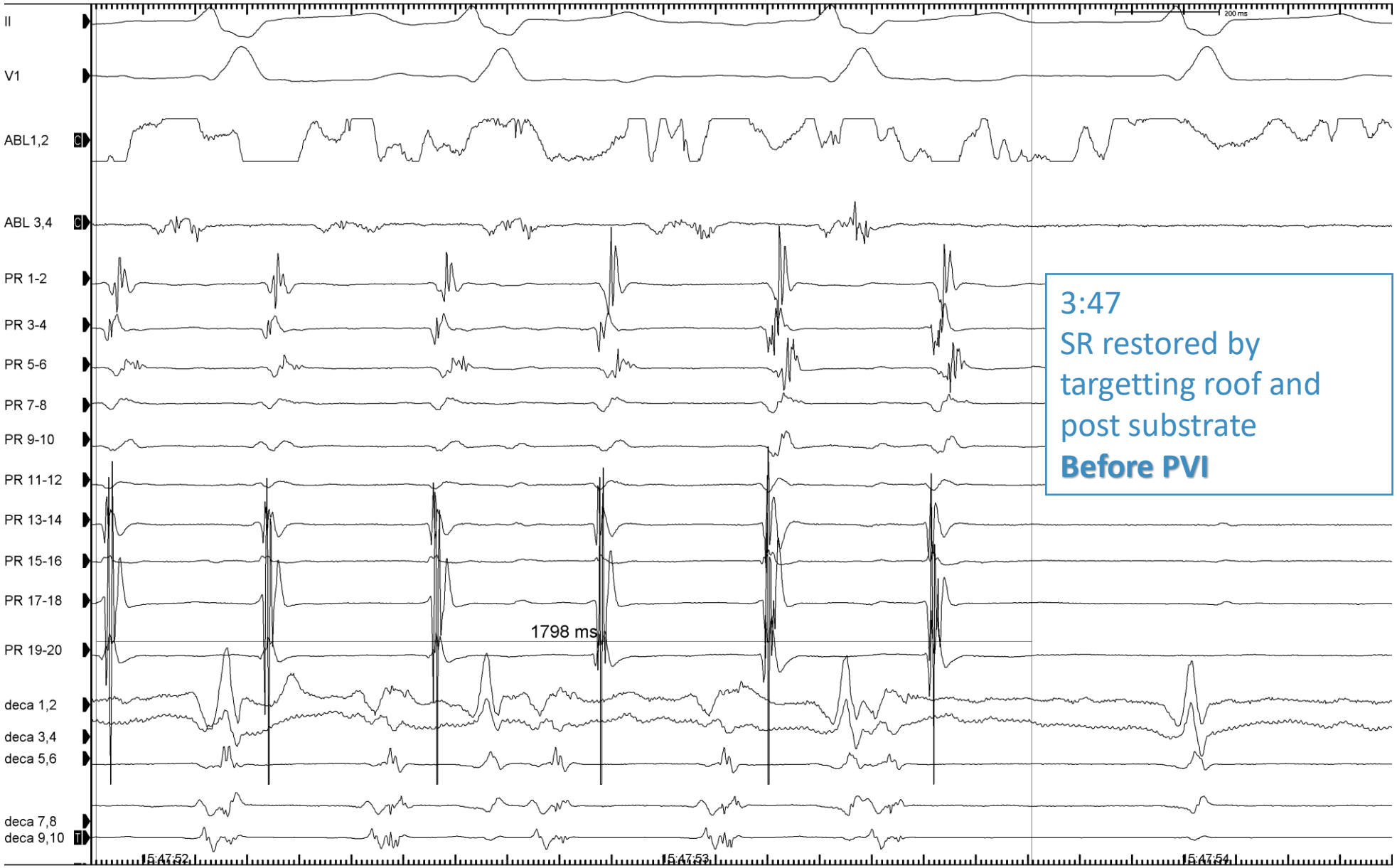

II
V1
ABL1,2
ABL 3,4
PR 1-2
PR 3-4
PR 5-6
PR 7-8
PR 9-10
PR 11-12
PR 13-14
PR 15-16
PR 17-18
PR 19-20
deca 1,2
deca 3,4
deca 5,6
deca 7,8
deca 9,10
180 ms
1831 ms

AI Volta dispersion-fragmentation maps

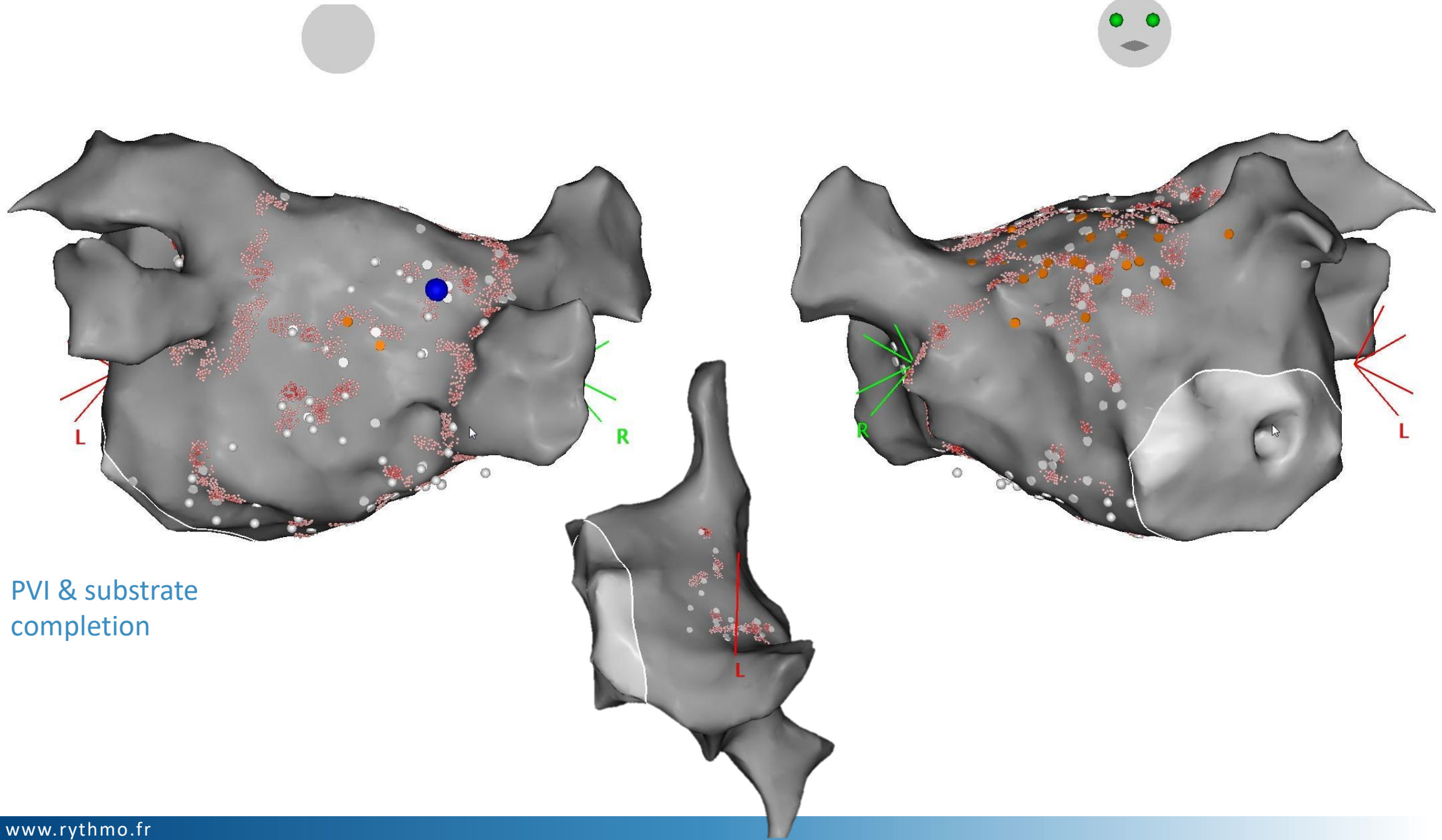


AI Volta dispersion-fragmentation maps

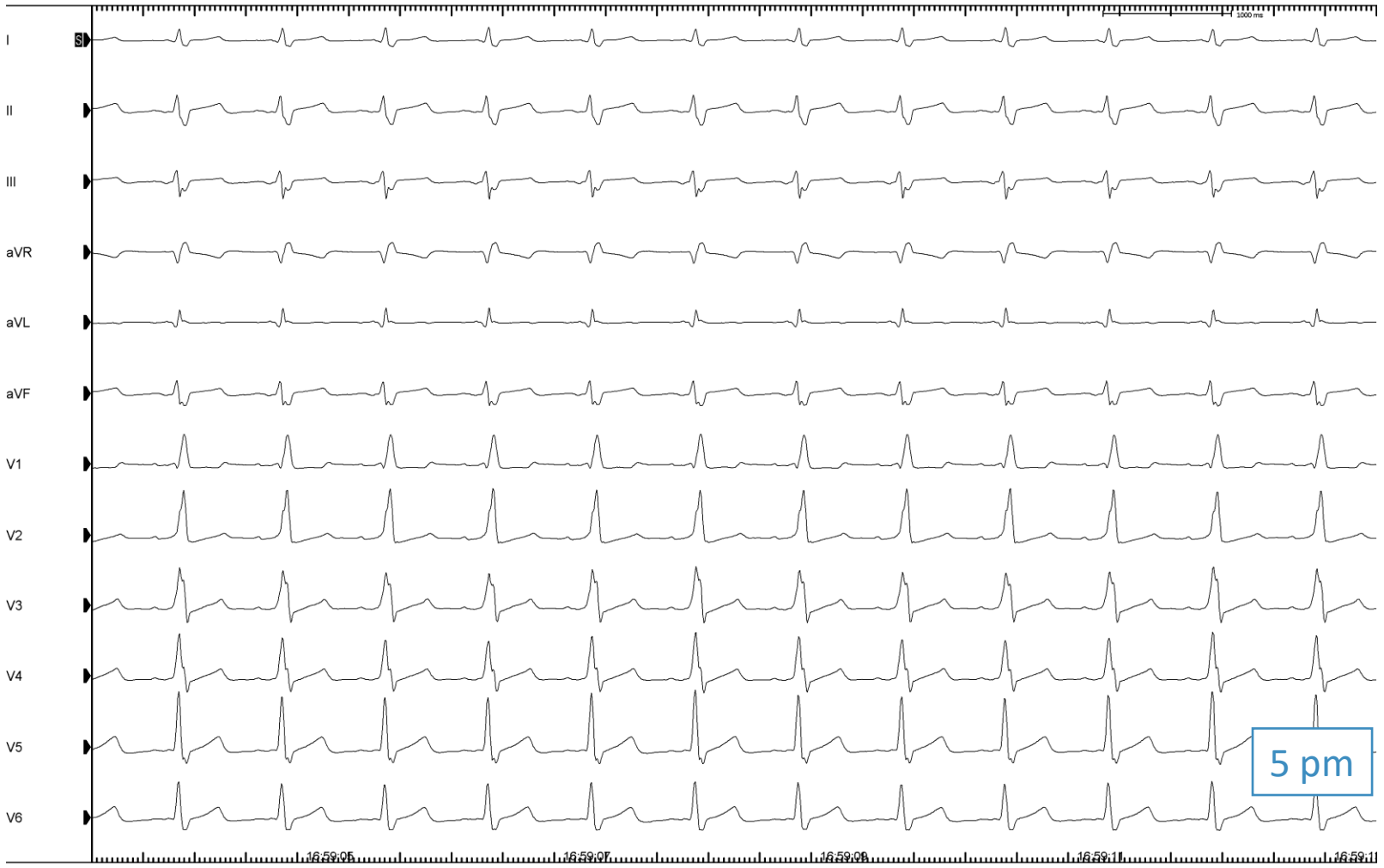




3:47
SR restored by targetting roof and post substrate
Before PVI



PVI & substrate completion



Duration: 2h40
Xray: 1mn24
RF applications: 124 s
RF time: 2179 s

SR 40 mn after transeptal
Then PVI complement

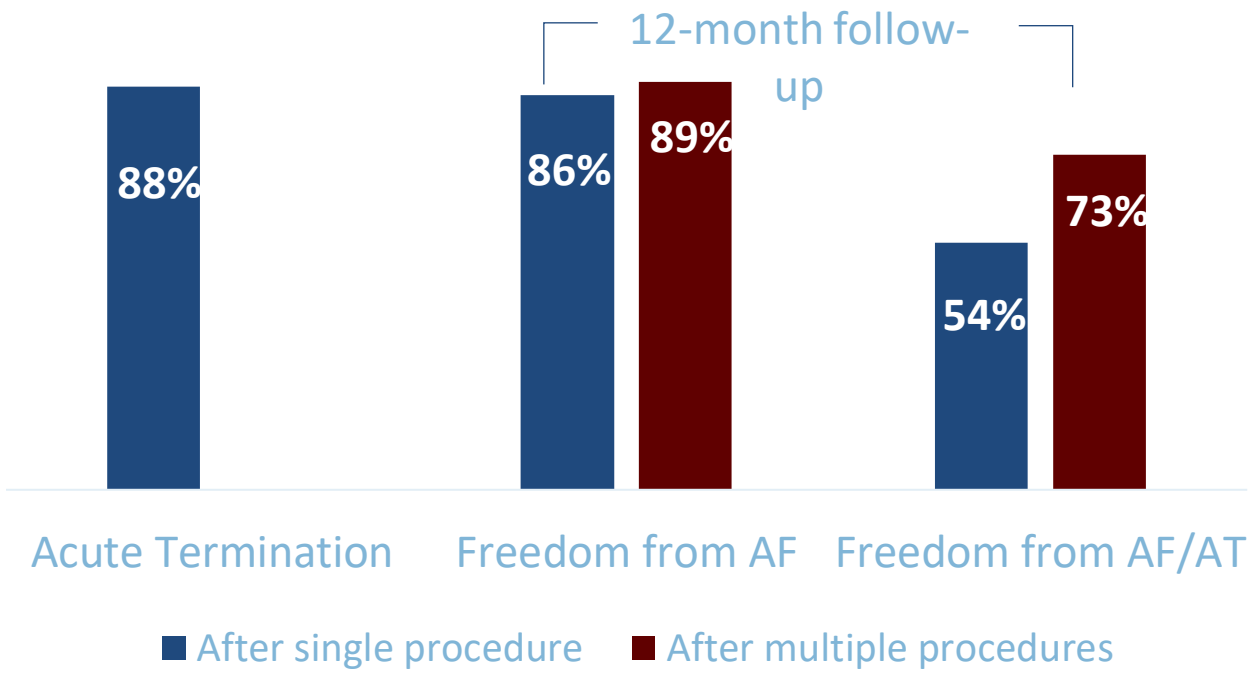
1 night stay

Key clinical evidence for Volta VX1: Ev-AIFib[1]

(The Preliminary Evaluation of the AIFib Software Trial)

85 Patients in 8 Sites – only de novo Persistent and Long Standing Persistent

17 operators using the 3 major mapping systems (CARTO, Ensite, Rhythmia)



VX1 software-guided **ablation of dispersion** areas led to **convincing outcomes**

Acute and long-term **outcomes between primary and satellite centers not statistically different,** demonstrating **standardization and reproducibility of approach**

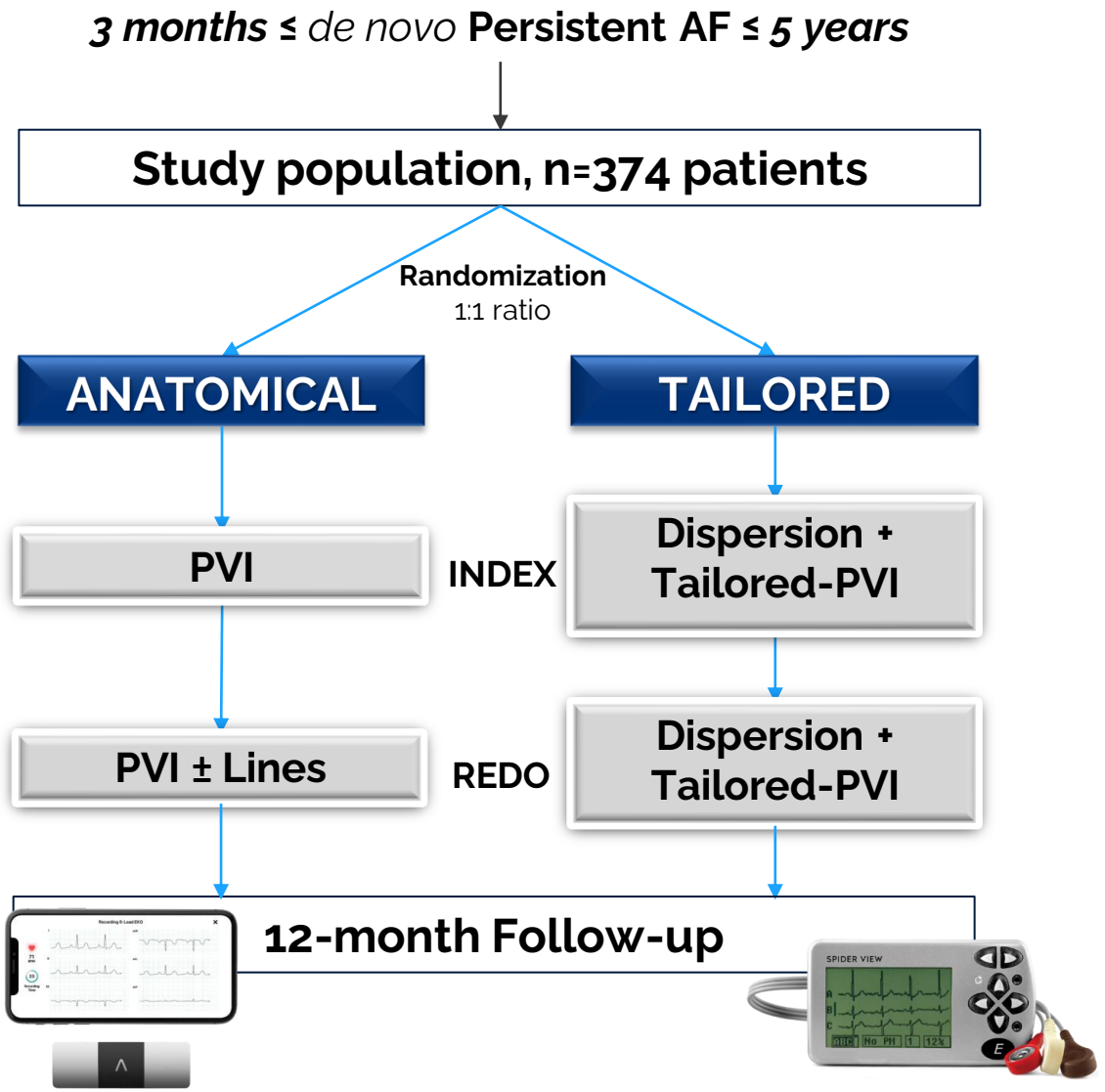
AF conversion into SR by ablation associated with significantly higher likelihood of long-term freedom from AF/AT

1. Presentation at *AF Symposium 2022 Spotlight sessions*

TAILORED-AF TRIAL: Tailored VS Anatomical Strategy for Persistent AF

- **Prospective, randomized controlled multicenter international trial** in 27 EU and US sites

- Primary Endpoint: **Freedom from AF**, with or without AADs, **12 months after single index ablation procedure**



Conclusion

Activity guided ablation

AI guided substrate ablation

Quite rapid AF termination on arrhtyhmogenic substrate - low ablation charge

Despite challenging AF

PVI came later

Conclusion

Best tools to target arrhythmogenic areas

AI: reproducible, reliable

Best energy to durable lesions

Patience…

Share and support progress…