

Ablation de la FA par électroporation (PFA) vs les énergies thermiques:

le match est-il définitivement plié ?

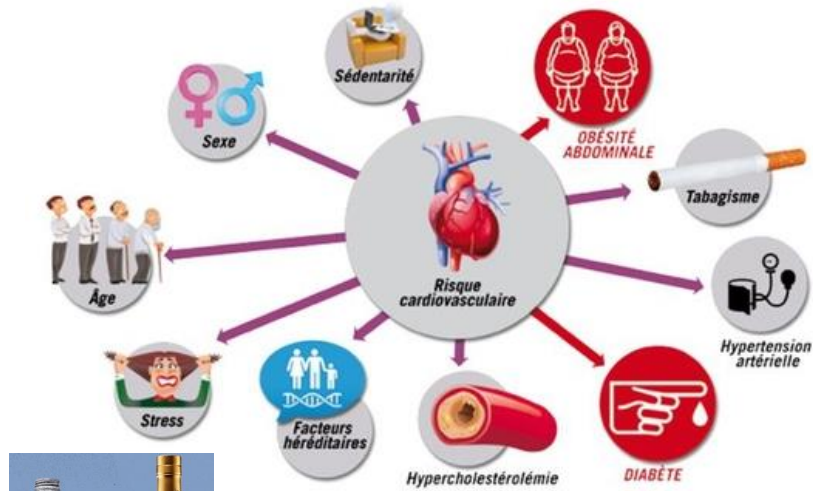
Samir FAREH

Hôpital CHU Croix-Rousse-69/ Clinique Belledonne-38



Un variant: Homo cum fibrillatione atriali

Homo aegrotus modernus
cum omnibus factoribus
periculi



Homo obesus stupidus



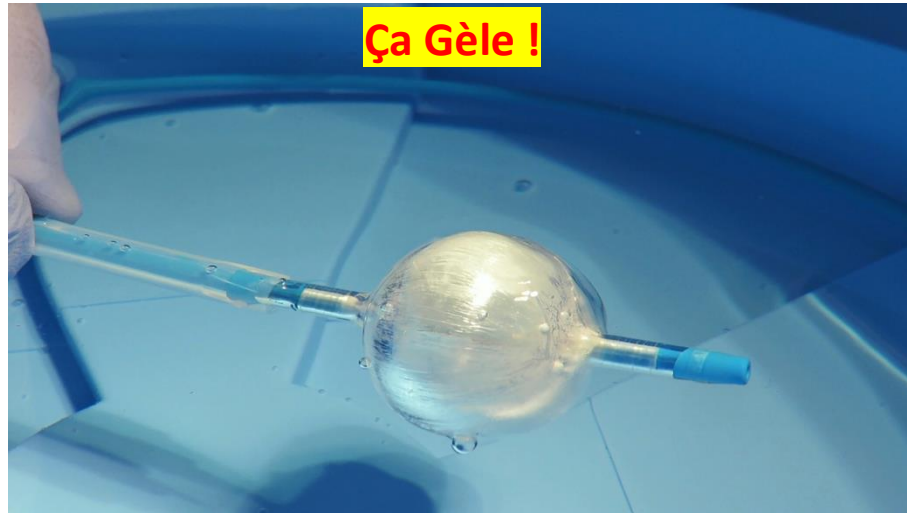
Homo athleta demens



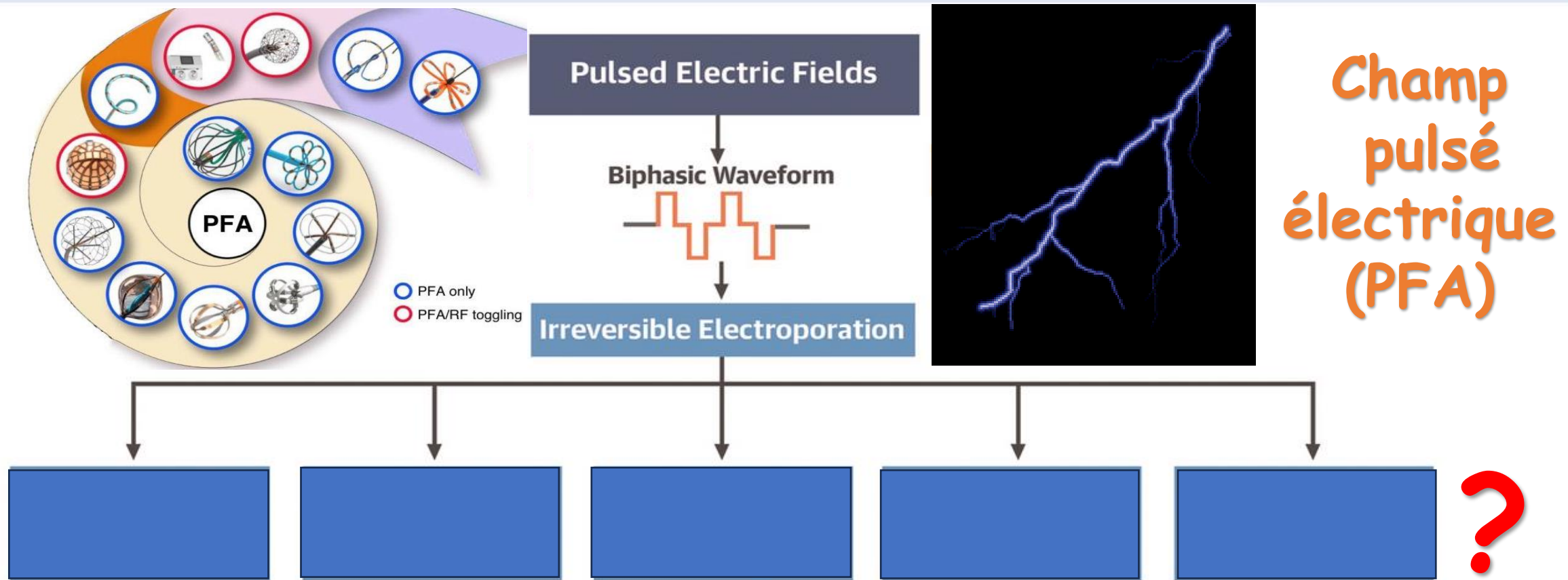
Un mutant: Homo atrium ablator



Energies Thermiques vs Electroporation: le match



CENTRAL ILLUSTRATION: Mechanism of Irreversible Electroporation



*Electroporation will take place only when the energy of the applied electric field is higher than the electroporation threshold of the target cell.

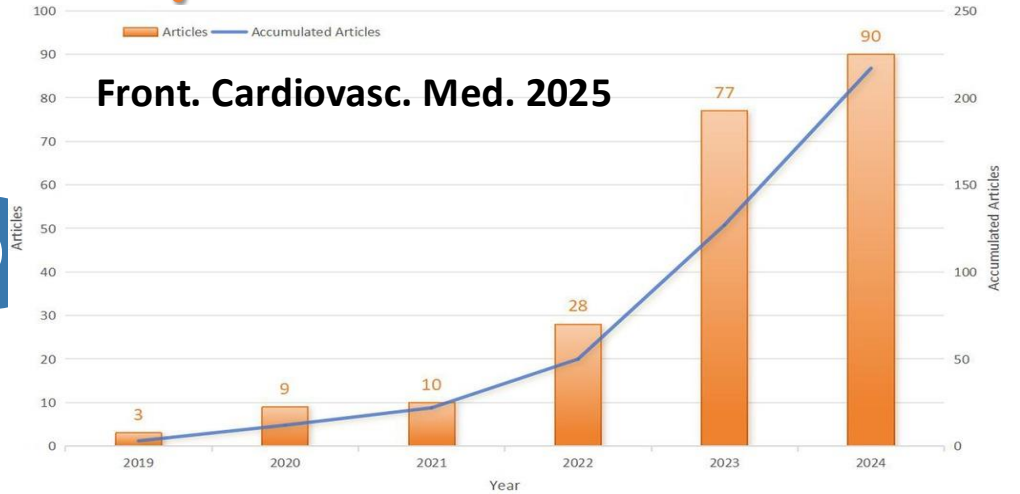
Tabaja C, et al. J Am Coll Cardiol EP. 2023;9(9):2008-2023.

Impact Clinique??

Energies Thermiques vs Electroporation: le match

- Les données de la science
(Etude contrôlée randomisée- FA paroxystique)

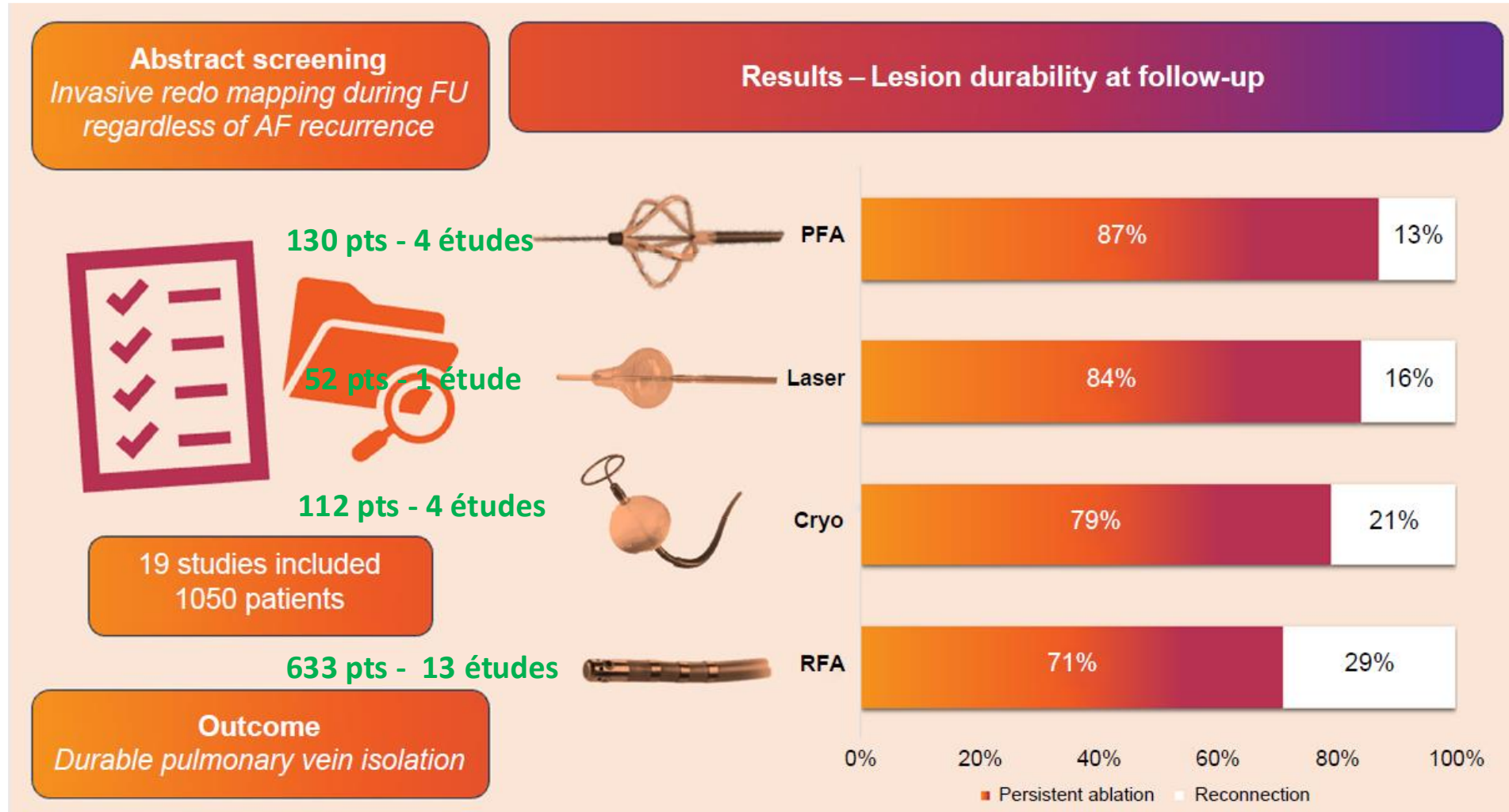
P



- Retour d'expérience terrain
d'un Homo atrium ablator



Durabilité de l'isolation des VP: le match



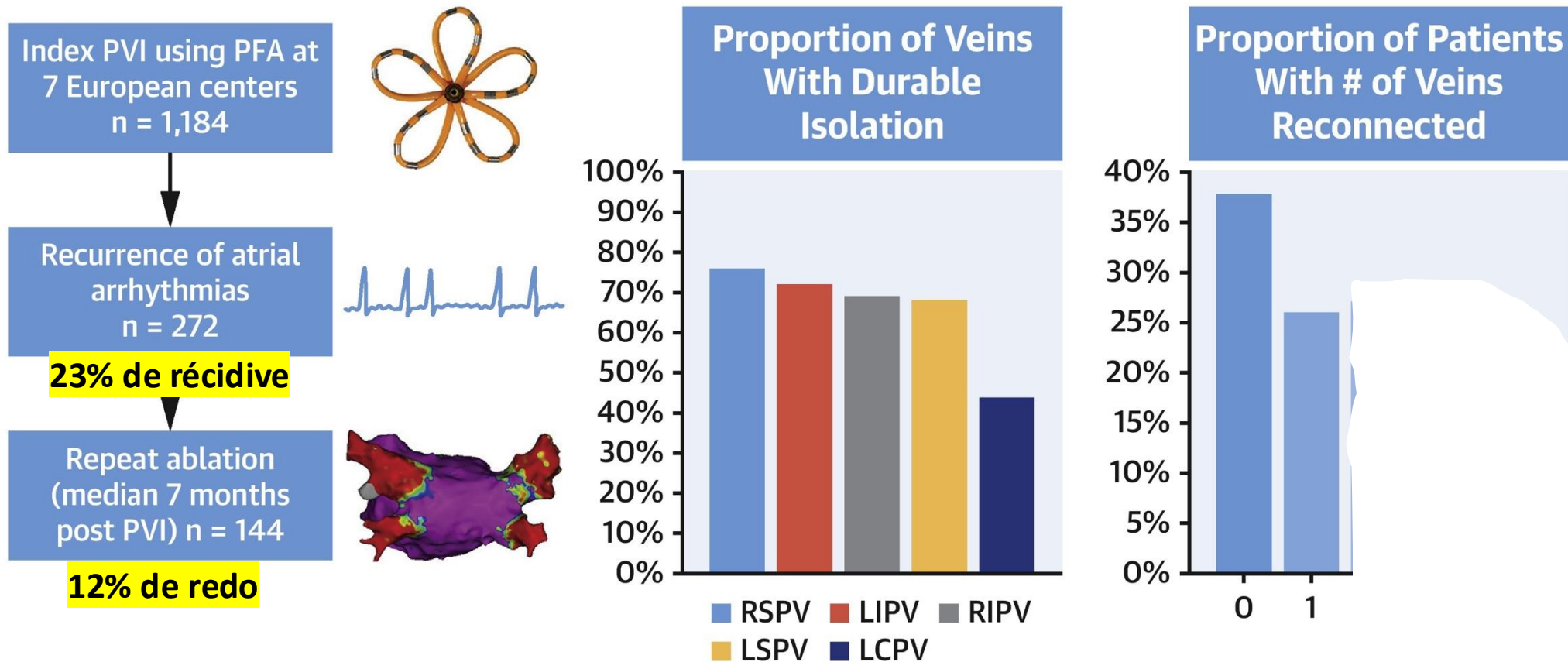
T. Serban et al.

Europace (2023) **25**, 1–10

<https://doi.org/10.1093/europace/euad335>

Durabilité de l'isolation des VP: Pas parfait...

CENTRAL ILLUSTRATION: PVI Durability Using Pulsed-Field Ablation



Kueffer T, et al. J Am Coll Cardiol EP. 2024;10(4):698-708.

Les Etudes Contrôlées Randomisées

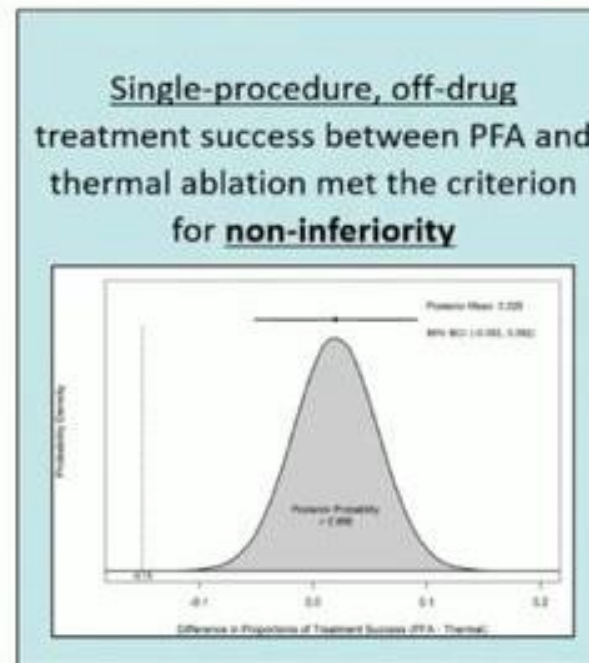
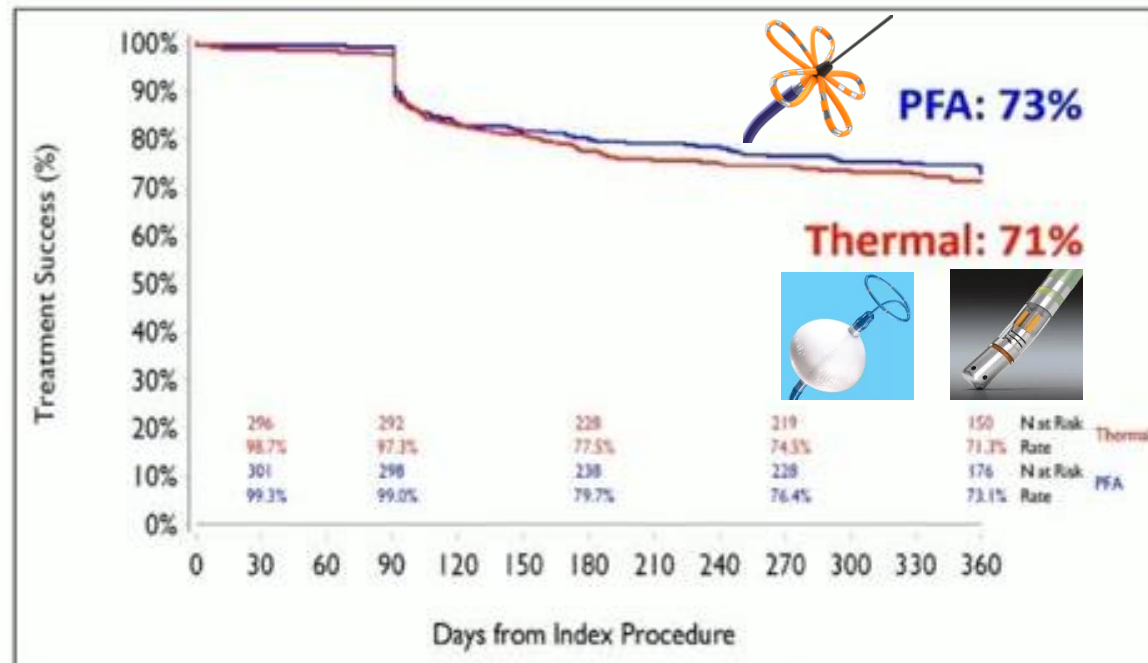
ADVENT: Pulsed Field Ablation vs Thermal Ablation (RF/Cryo) for Paroxysmal AF

2023

Primary Effectiveness Endpoint

The NEW ENGLAND
JOURNAL of MEDICINE

DOI: 10.1056/
NEJMoa2307291



Pr Reddy

➤ Did not meet the criteria for Superiority (of PFA)

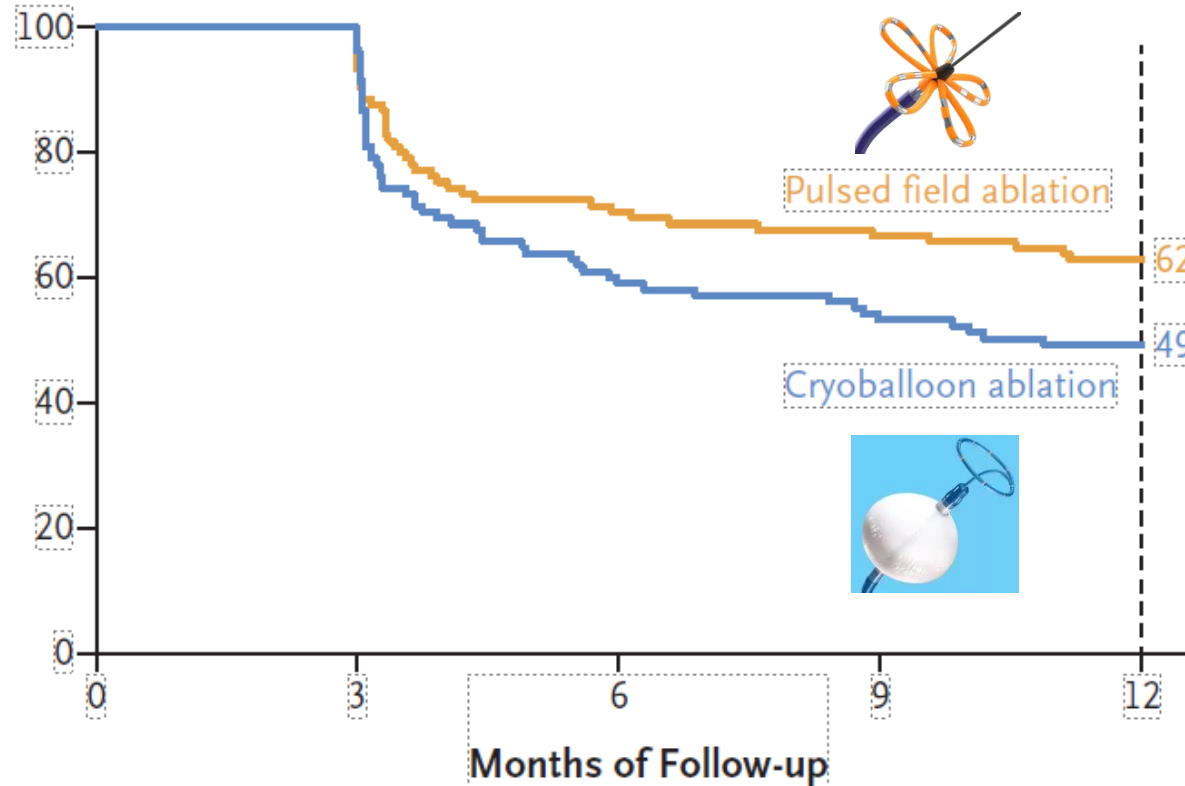
Les Etudes Contrôlées Randomisées: PFA vs Cryo

**SINGLE
SHOT
CHAMPION**

2025

*The new england
journal of medicine*

Percentage of Patients Free
from Recurrence



Juge de paix absolu

Difference in cumulative
incidence,
-13.6 percentage points
(95% CI, -26.9 to -0.3)



Pr Reichlin

No. at Risk (%)

Pulse field ablation

Cryoballoon ablation

105 (100)

101 (96)

98 (93)

62 (59)

74 (70)

54 (51)

70 (67)

50 (48)

66 (63)

50 (48)

Figure 2. Freedom from Recurrence of Atrial Tachyarrhythmia during the Period from 91 to 365 Days.

Les Etudes Contrôlées Randomisées: PFA vs RF

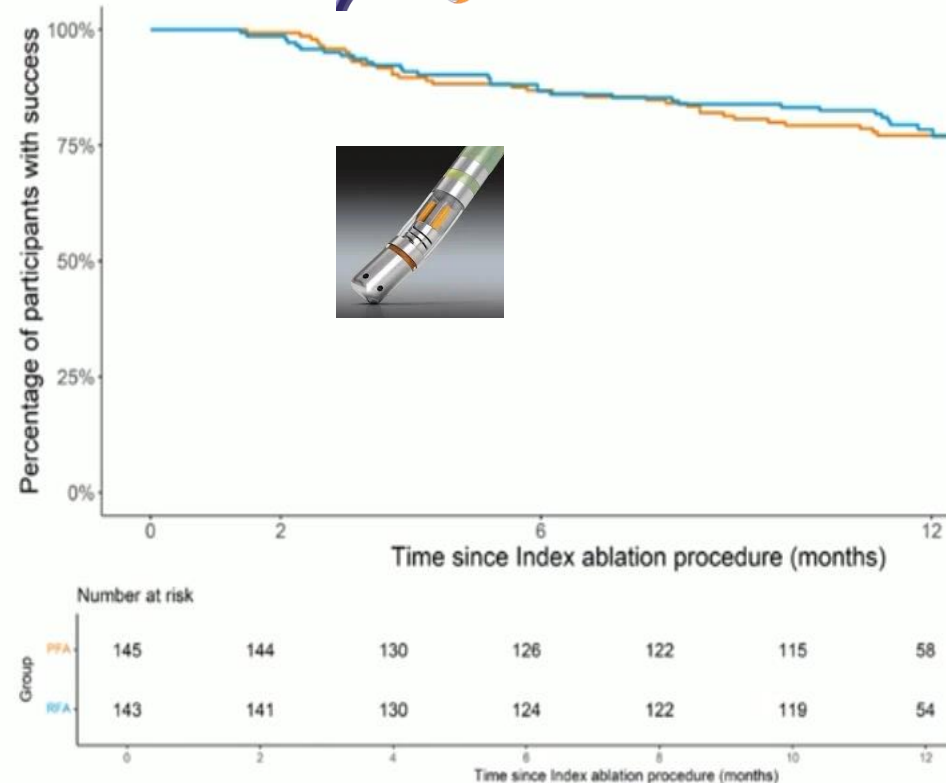
Results: Primary end-point



ESC 2025

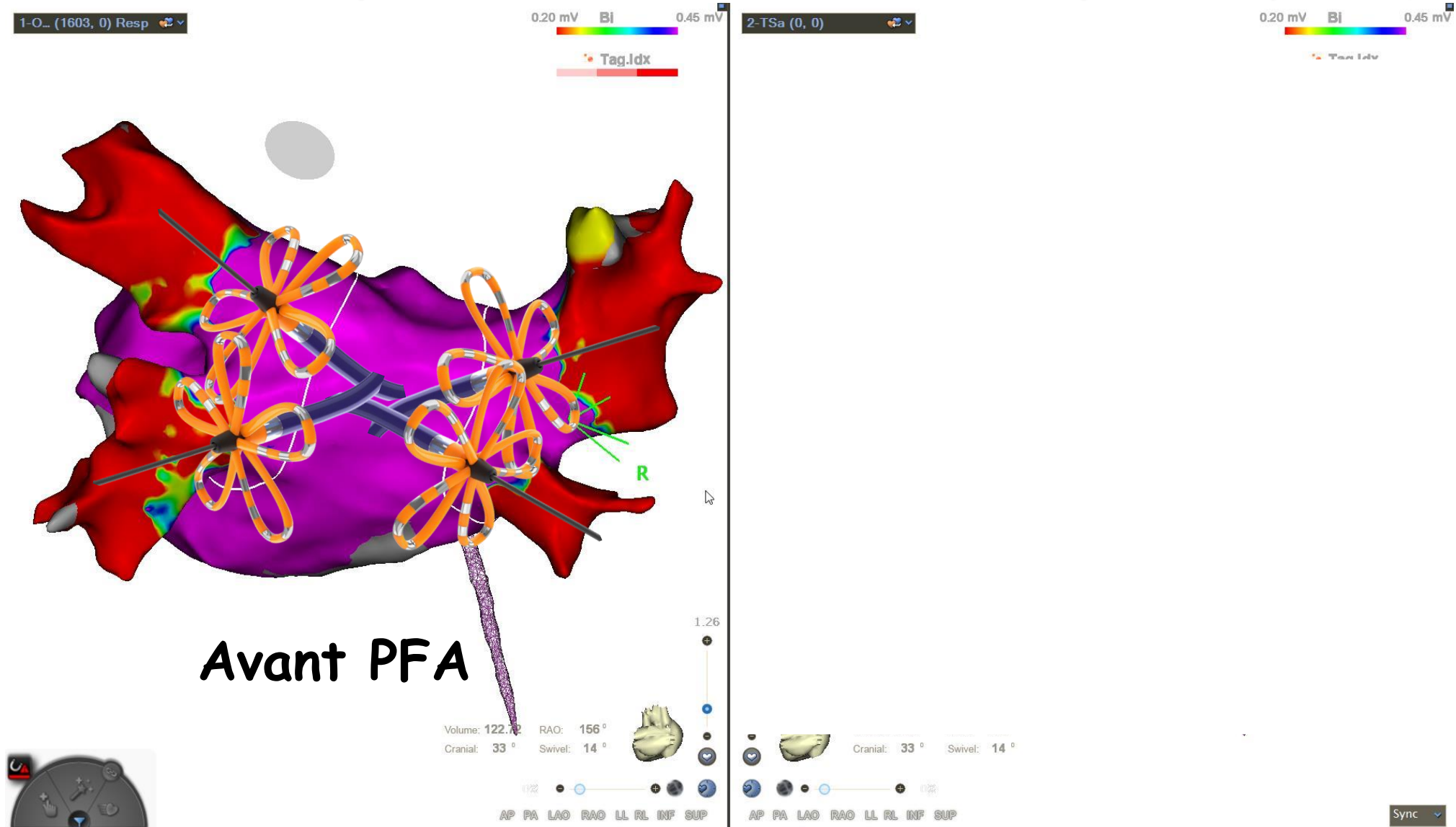
One-year single-procedure clinical success:

- Absence of atrial arrhythmia recurrence on any type of recording (≥ 30 sec) by Kardia, Holters, 12-lead ECGs
- No class I or III AAD resumption
- Absence of redo ablation in the 12 months (including a blanking period of 2 months)



Pr Jaïs

Retour d'expérience terrain: FA paroxystique



Retour d'expérience terrain: FA paroxystique

- Energie puis
- Energie très
- La courbe d
- l'efficience d
- Le protocole
- (renf
- Optimisation
- 17min, temps
- Confirmation

Homo atrium ablator dort bien la nuit après une PFA !



ductible

yo)

et donc

ation des VP

mps OG $\approx$

hétérisme)

Retour d'expérience terrain: FA permanente

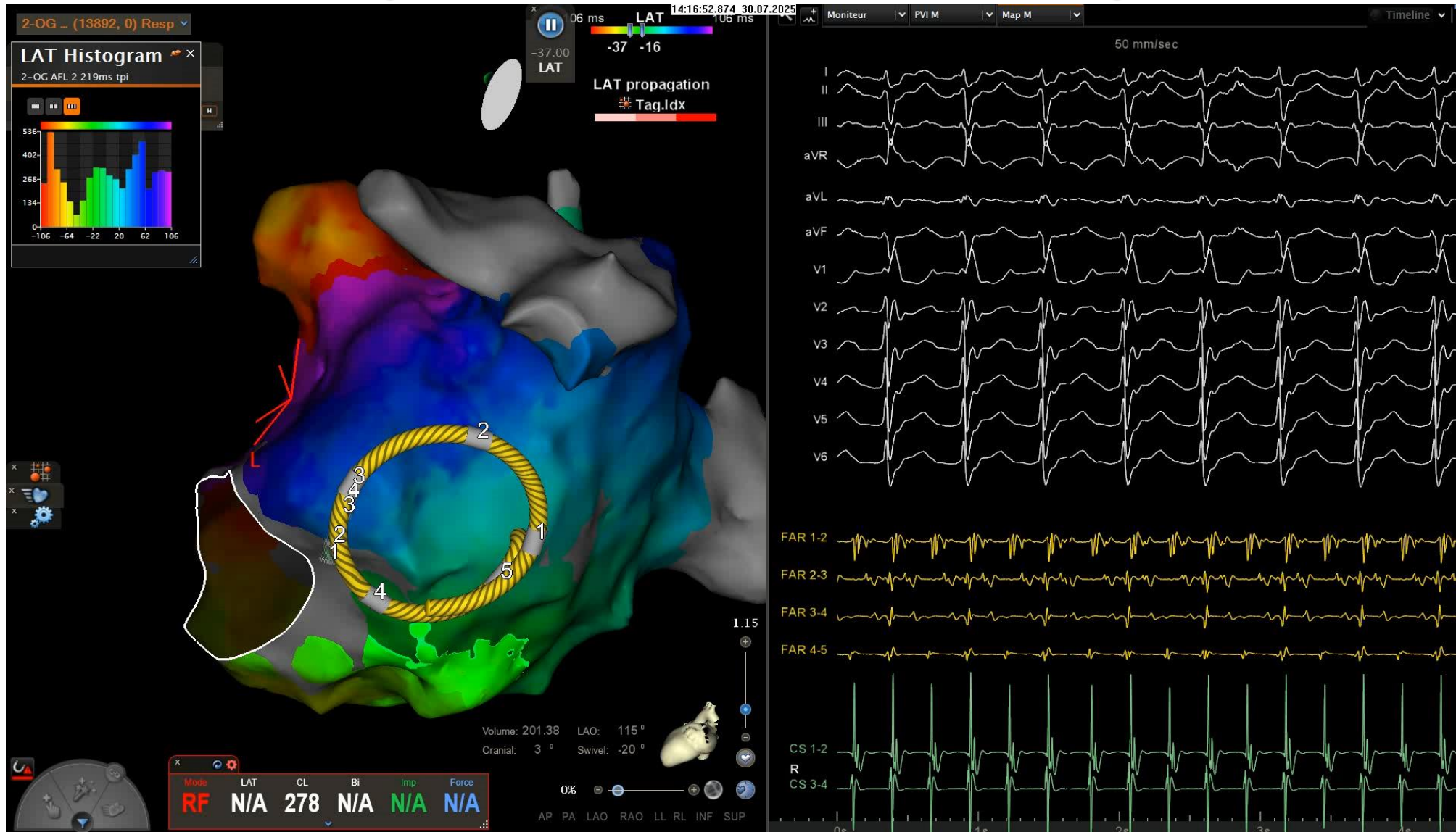
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Retour d'expérience terrain: FA permanente

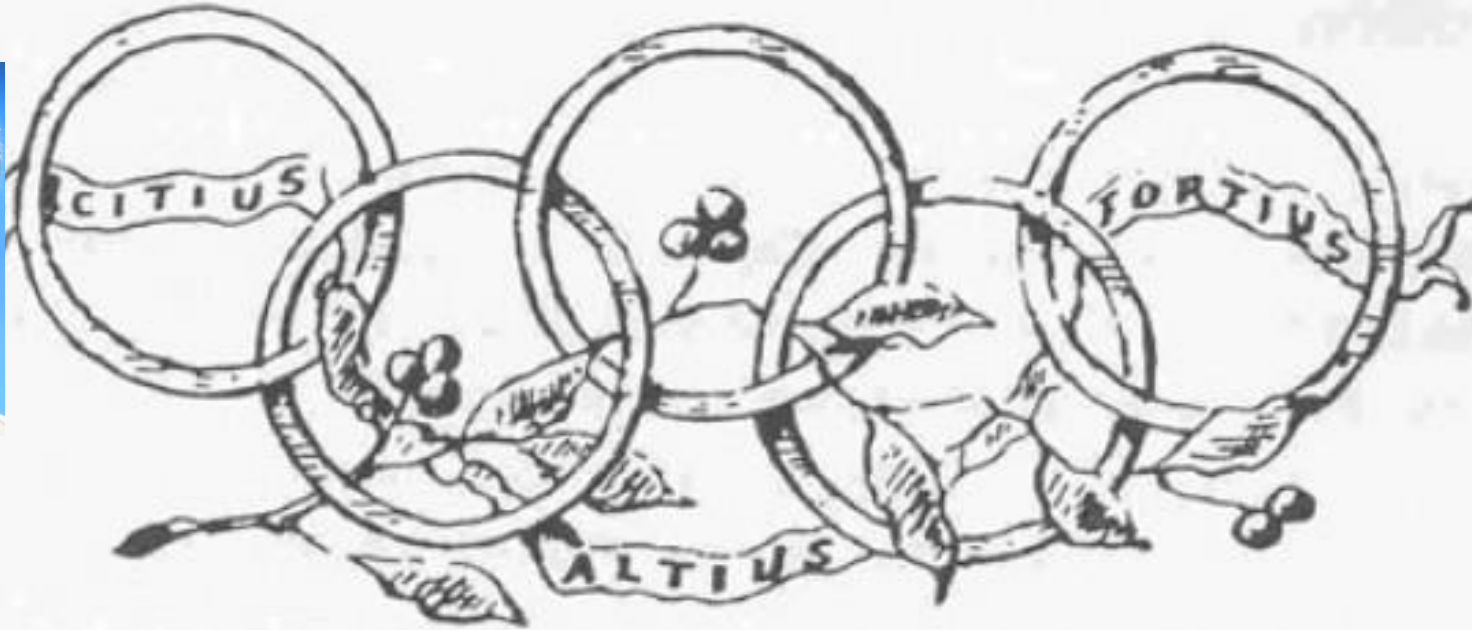


Plus vite - Plus haut - Plus fort

Devise JO



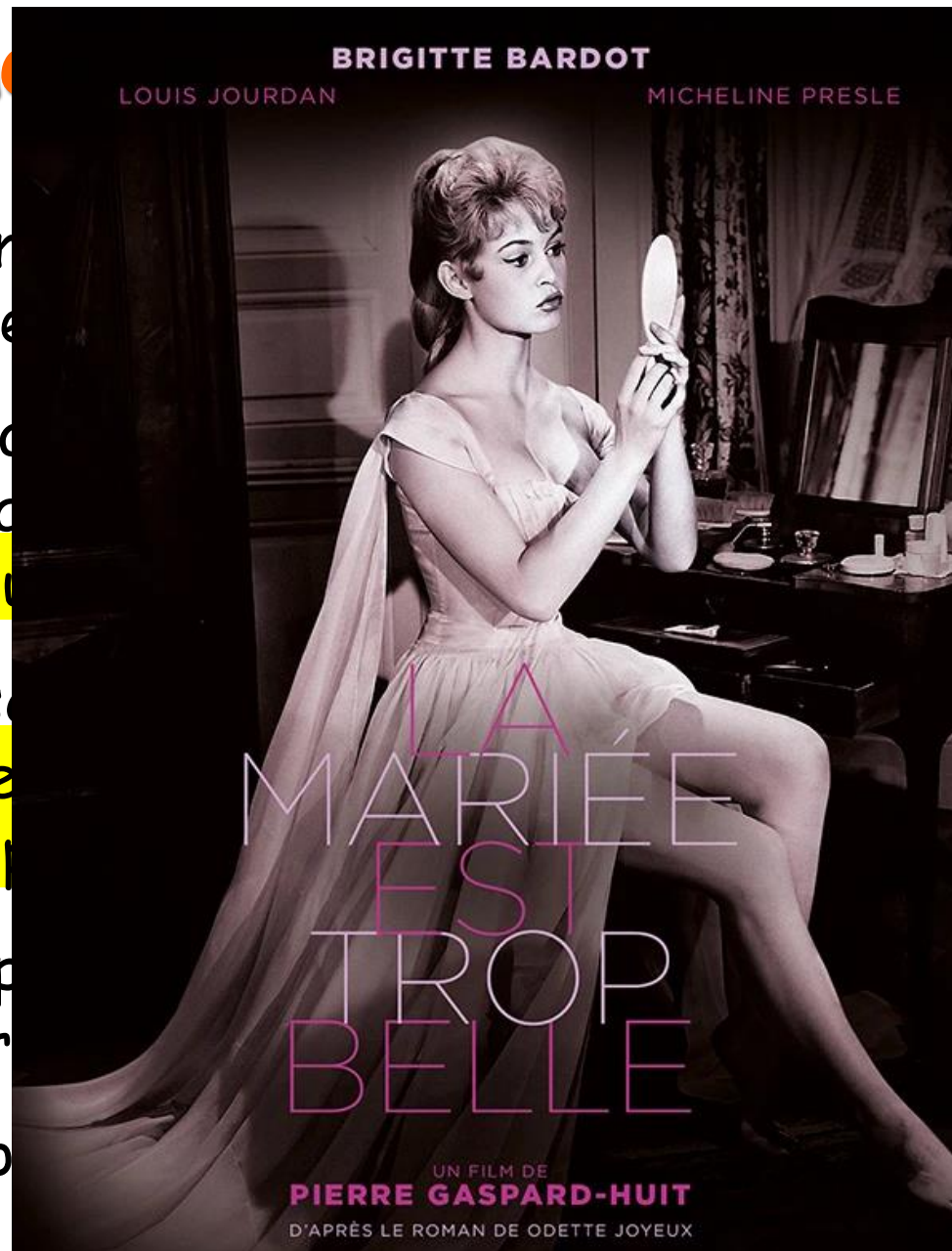
PARIS 2024



**PFA: Plus vite - Plus puissant - Plus reproductible -
Plus facile - Plus tolérable - Plus sécuritaire -
Plus polyvalent - Aussi fort impact clinique**

PFA vs E. Th

- Un véritable Tsunami
Homo ablator exerce
- Mais, on refait le mo
Meilleure lésion-durc
Le combat de la sécu
- Les données de la s
(Résultats à + long te
Impact de l'IA ?, Imp
- De très belles persp
Atrial et Ventriculair
- Essayer, c'est l'adop



st (quasi) plié !

le variant

e Energie:
ermanente?



argement consolidées
de la Carto 3D?,
mes équivalents?)

-Carto 3D à l'étage

Merci

