

L'ablation du Flutter atrial gauche récidivant: stop ou encore ?

- **Dr Alexis Mechulan**

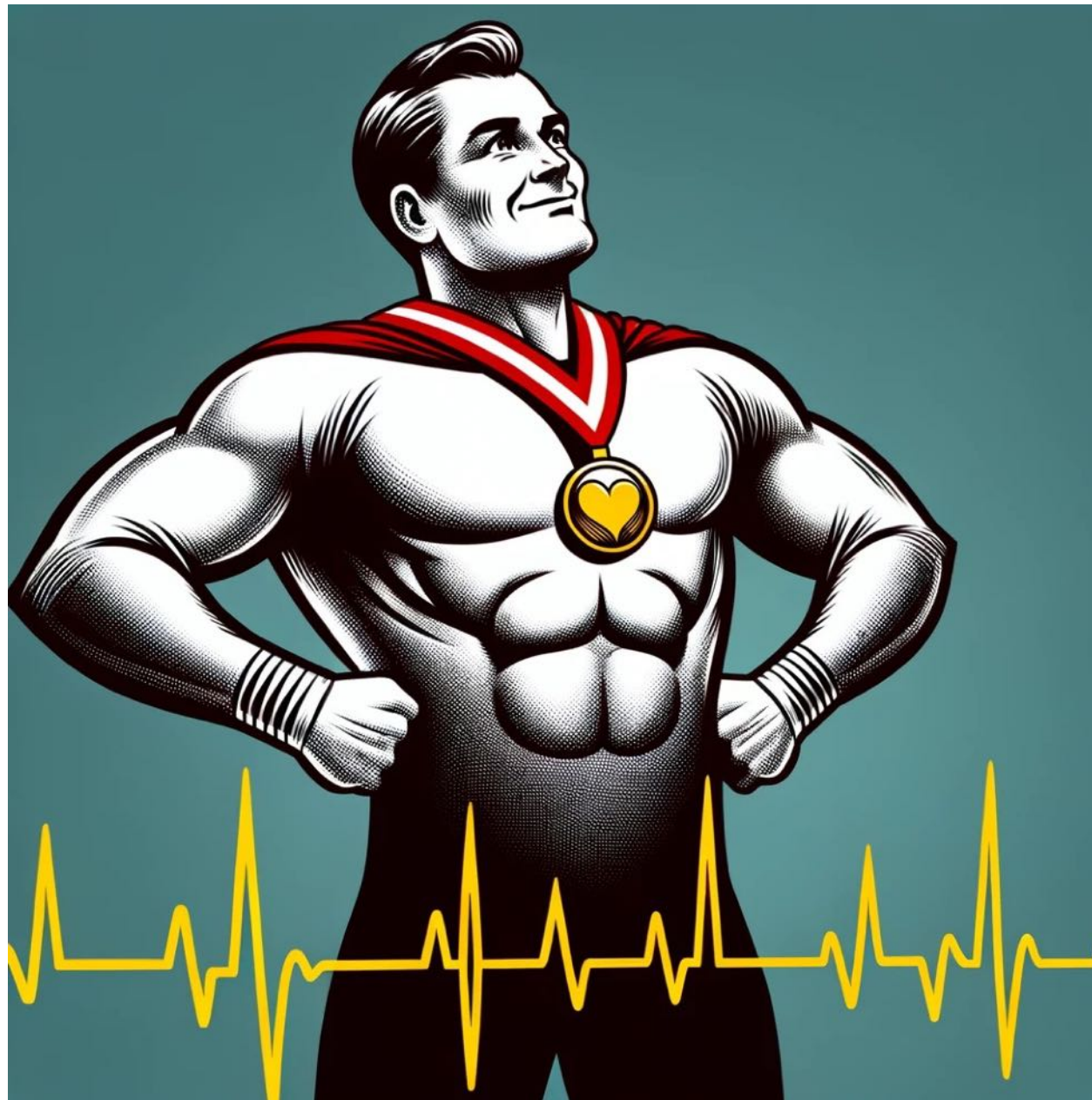
- Rythmologue

- Marseille

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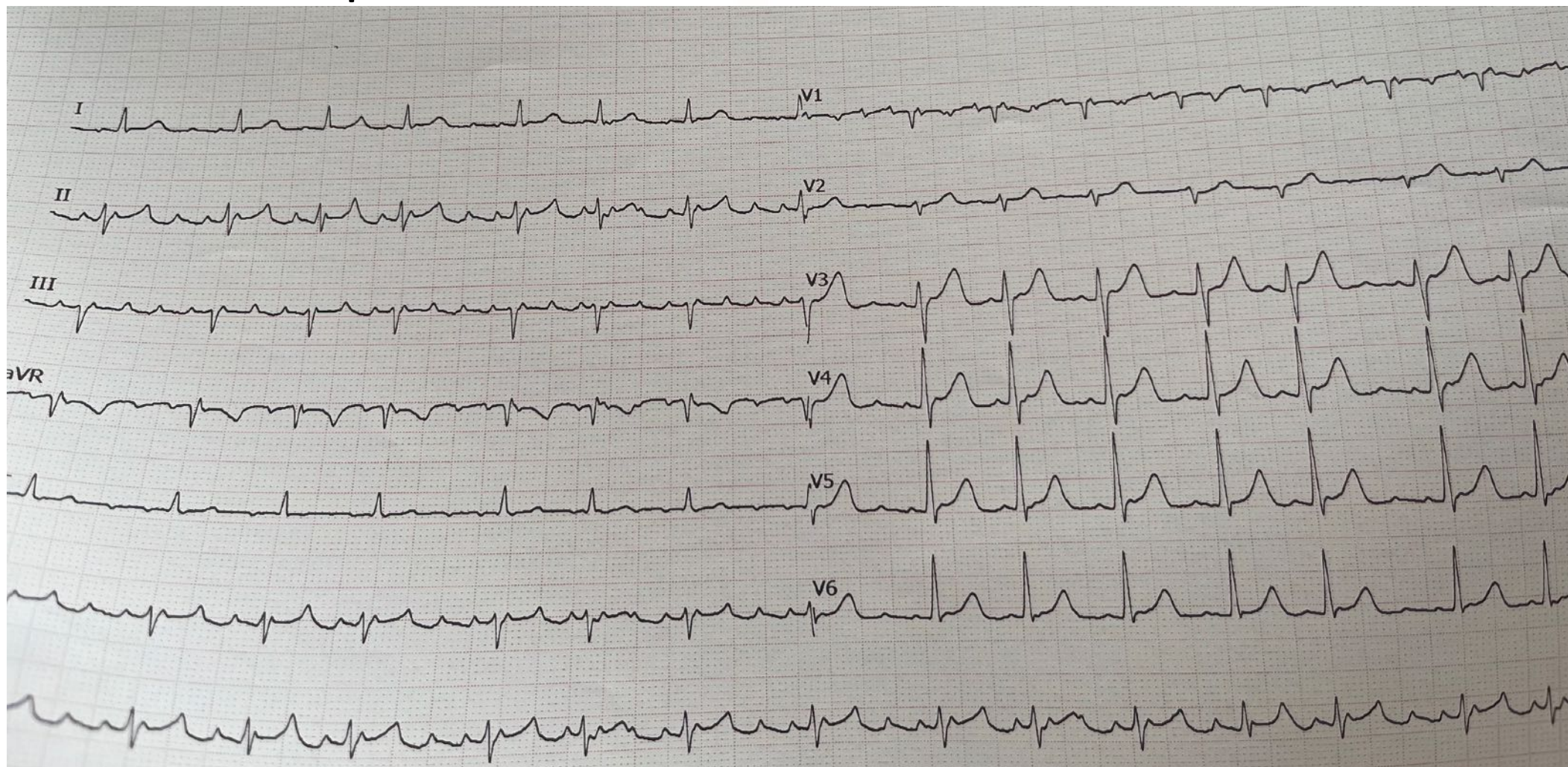
Centre de Recherche Clinique en Rythmologie
Interventionnelle de Clairval

Un cardiologue vous adresse son
meilleur ami pour ablation de
fibrillation atriale persistante

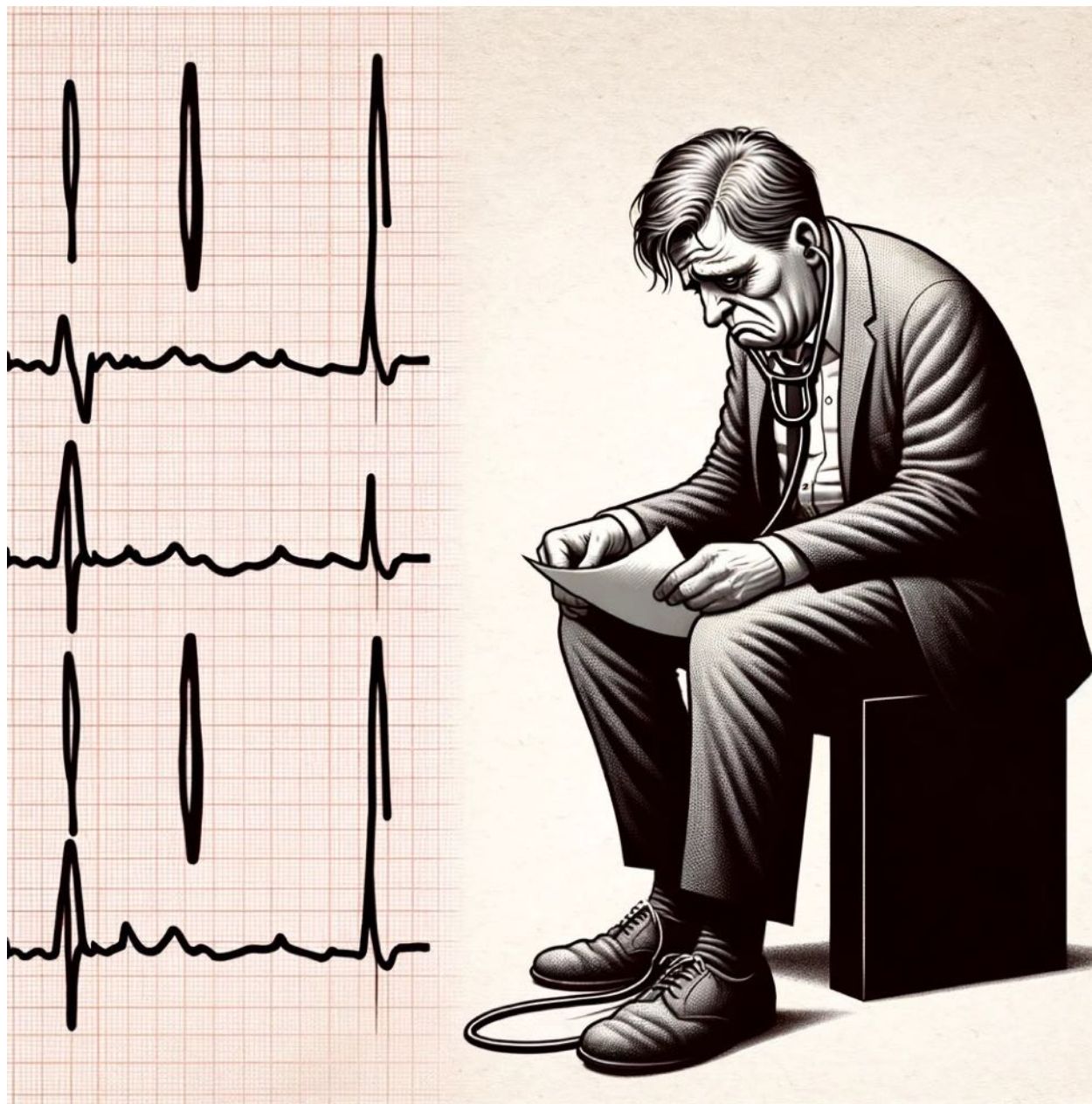




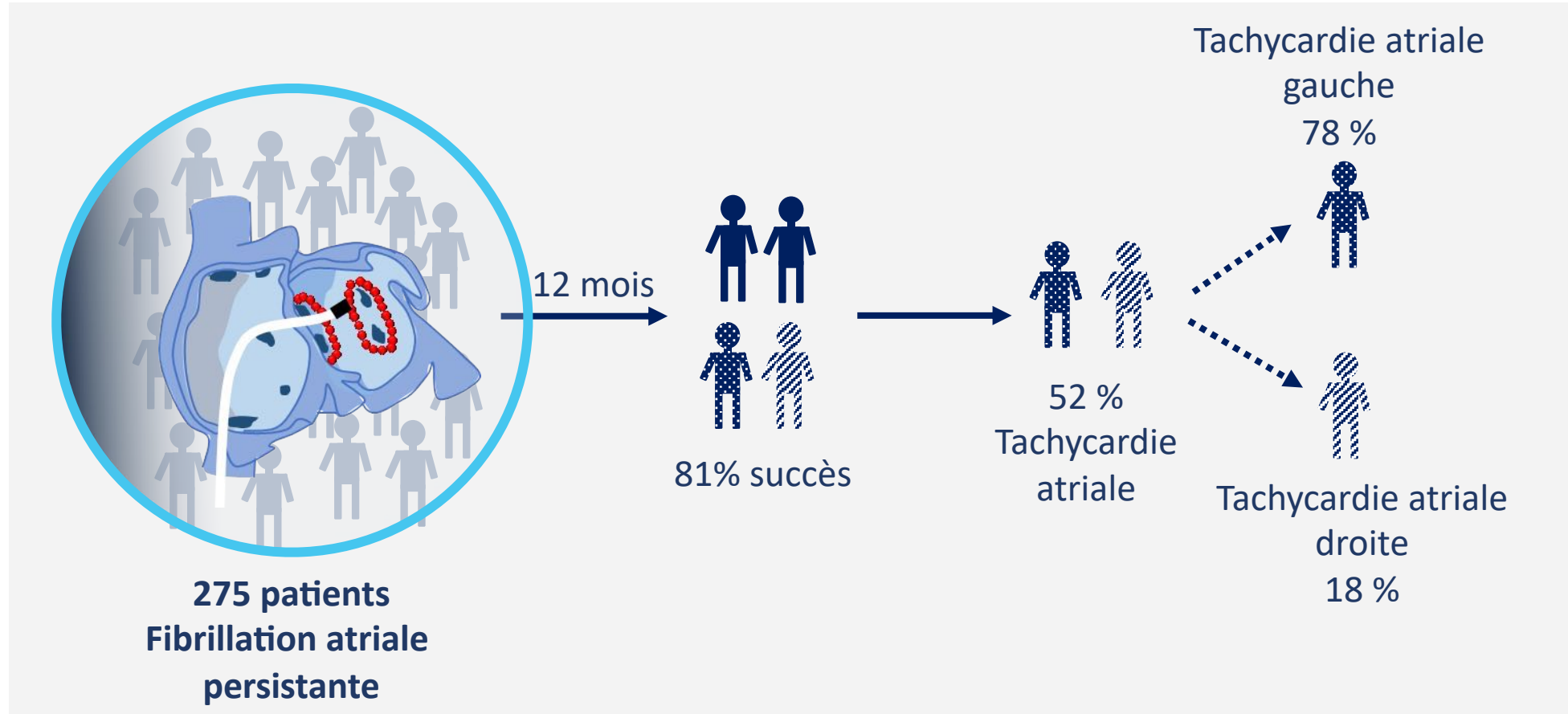
6 mois plus tard vous recevez un SMS...



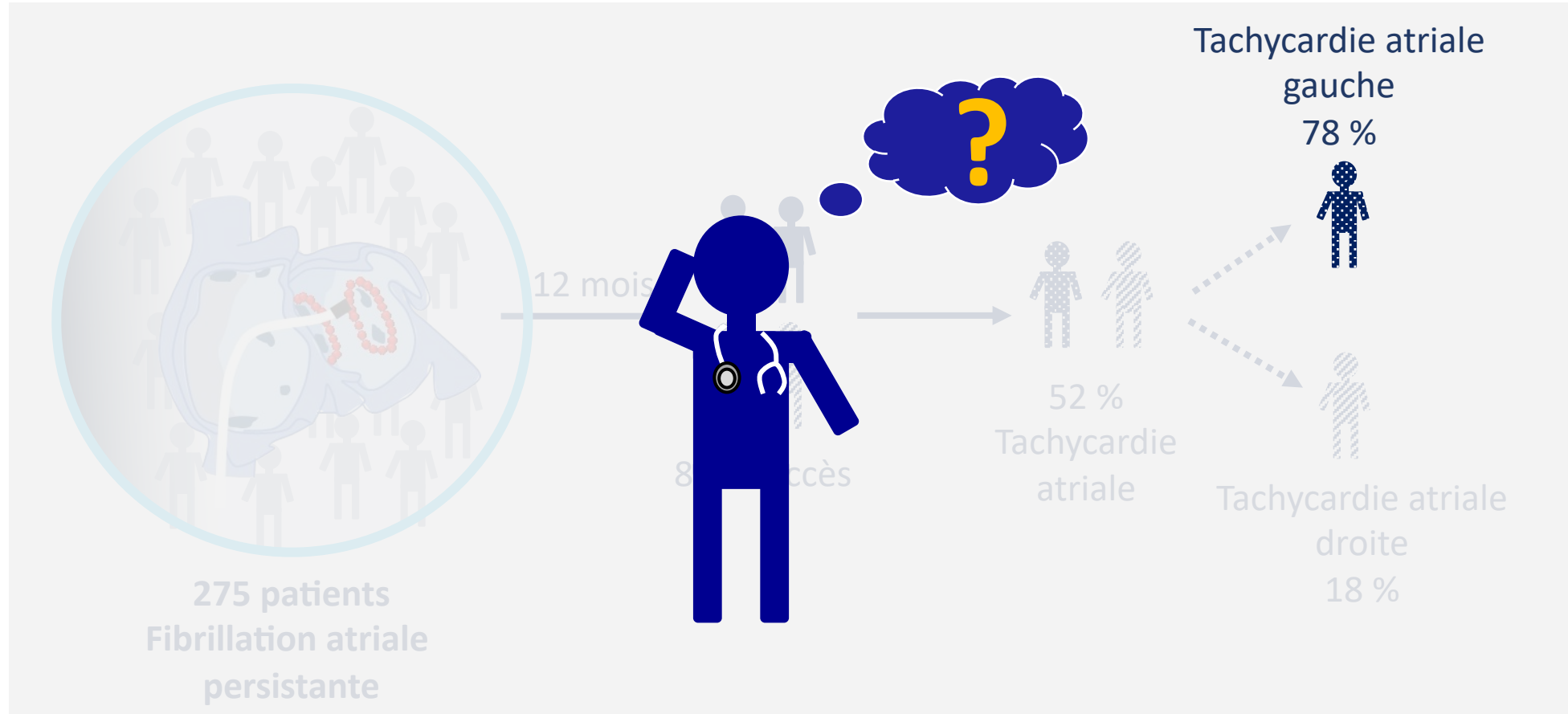




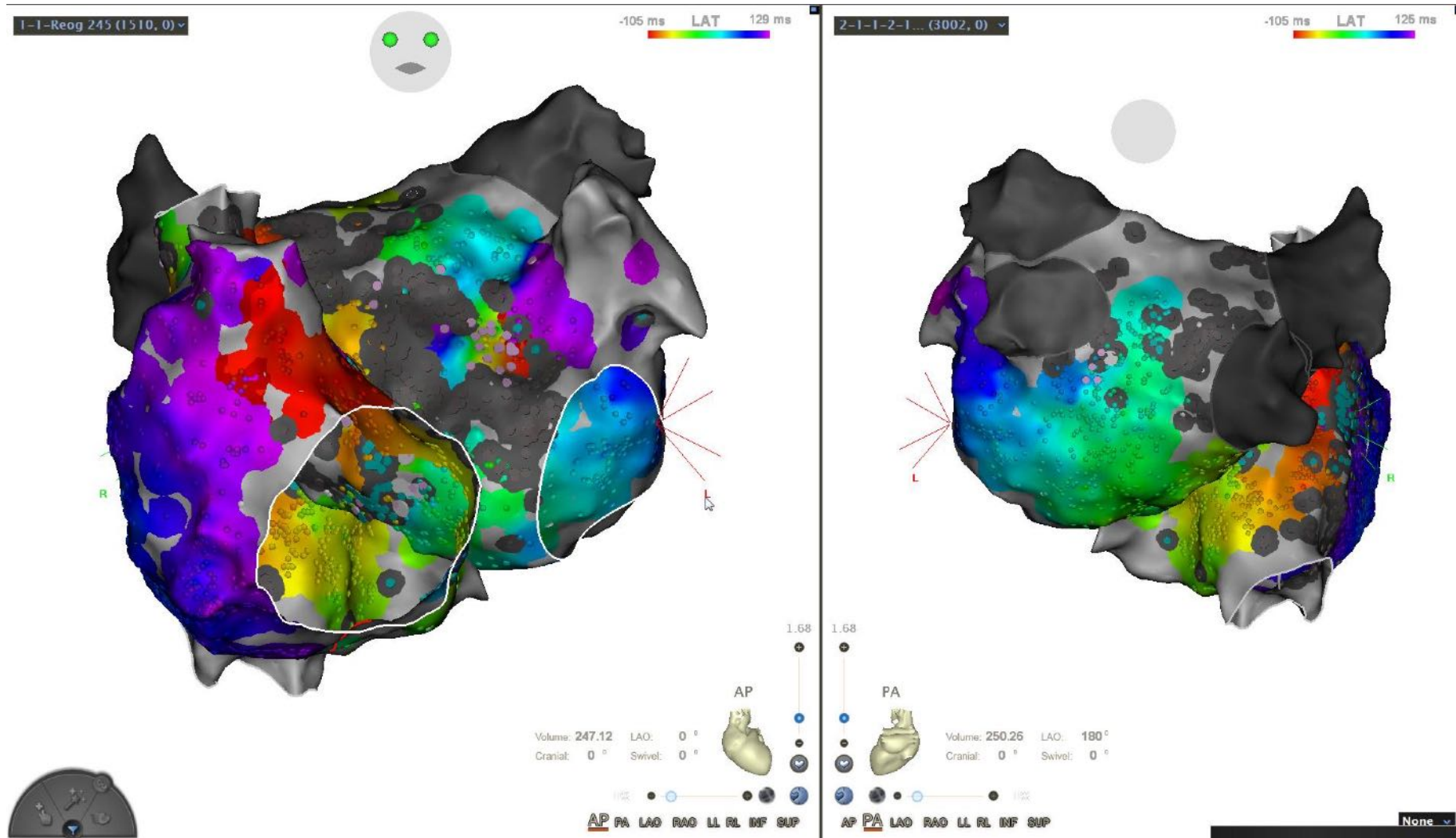
L'ablation du Flutter atrial gauche récidivant: Etude Clairval

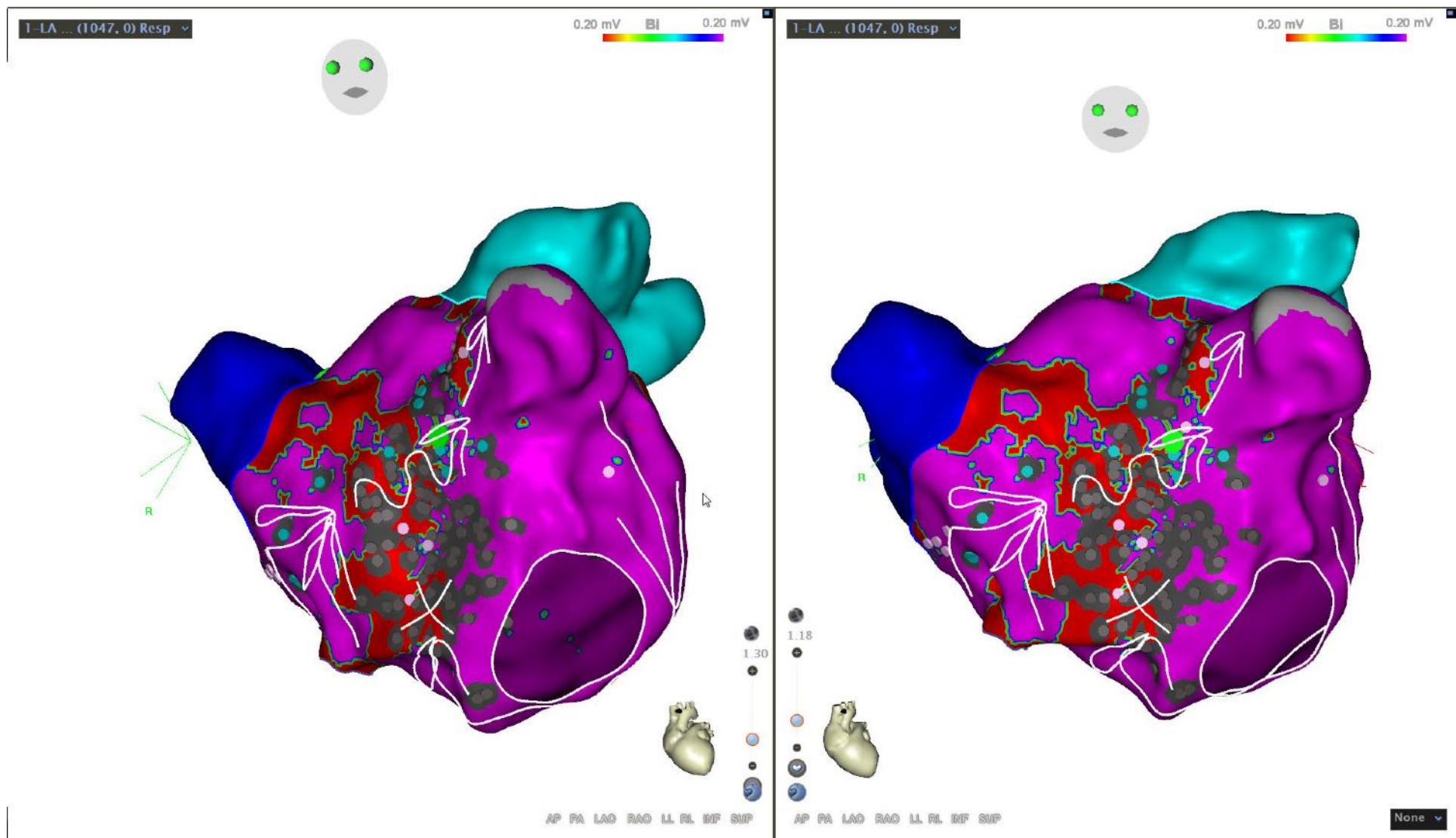


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MAPPING BI-ATRIAL en 2018

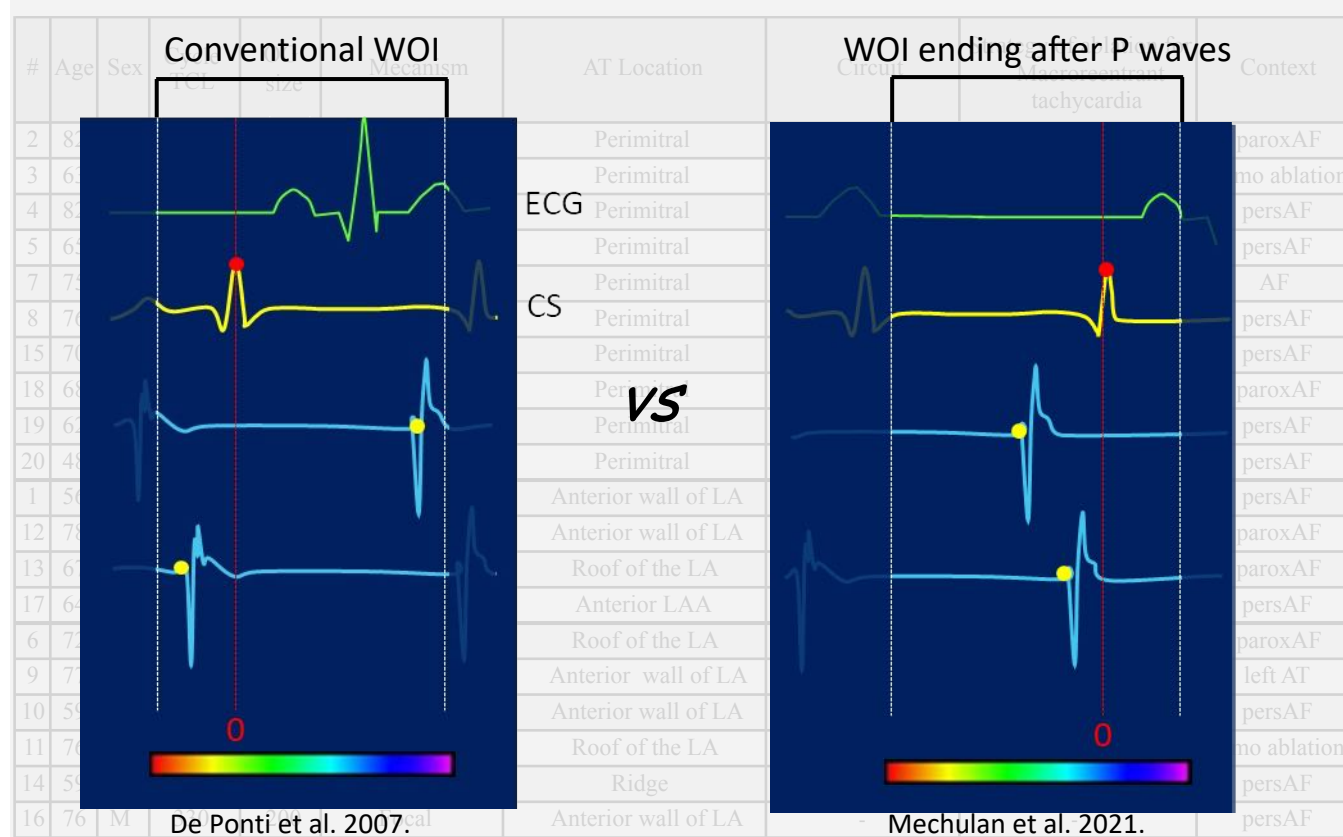




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An improved window of interest for electroanatomical mapping
 Mechulan et al. JICE 2021

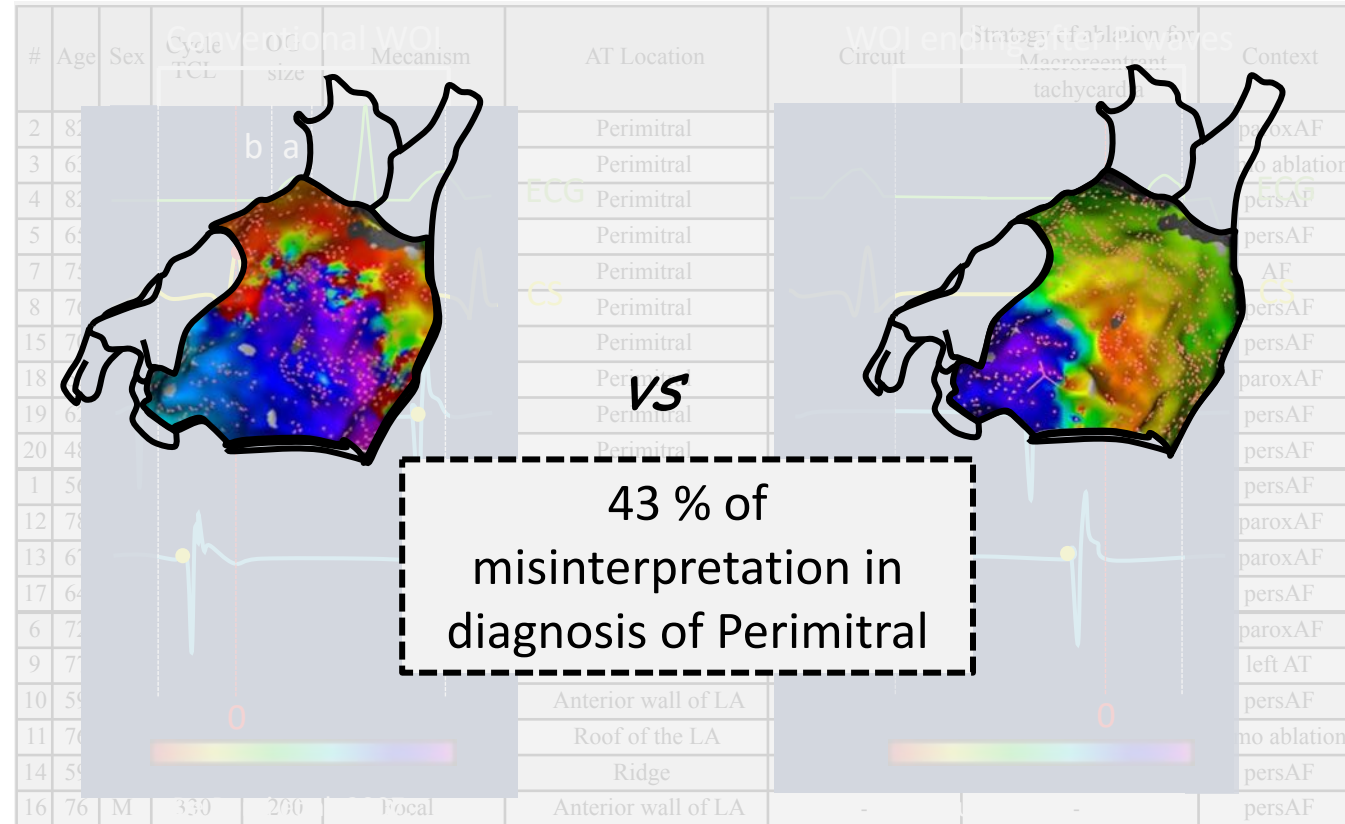
20 consecutive patients with clear AT mechanism of the left atria



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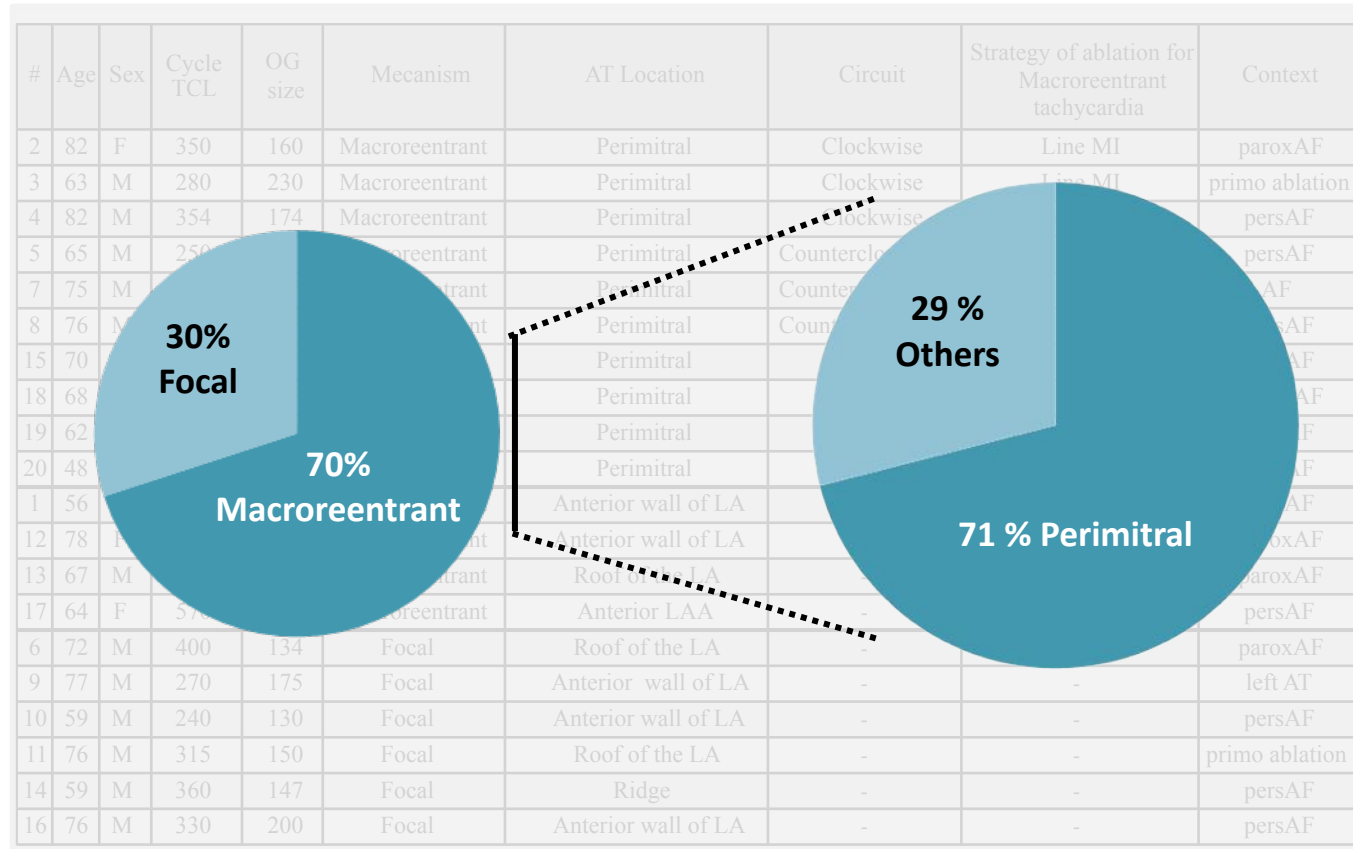


20 consecutive patients with clear AT mechanism of the left atria

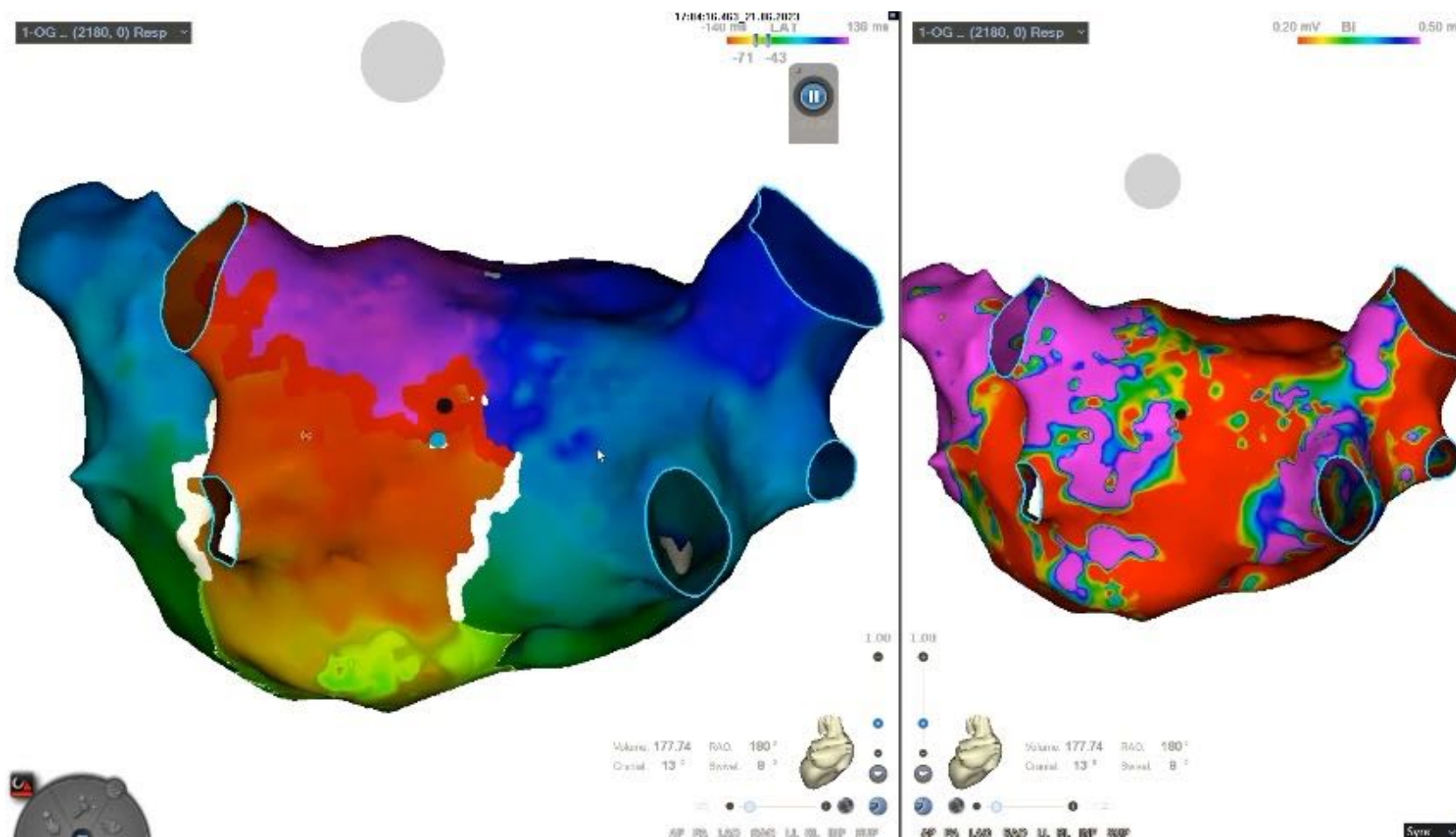
#	Age	Sex	Cycle TCL	OG size	Mecanism	AT Location	Circuit	Strategy of ablation for Macroreentrant tachycardia	Context
2	82	F	350	160	Macroreentrant	Perimitral	Clockwise	Line MI	paroxAF
3	63	M	280	230	Macroreentrant	Perimitral	Clockwise	Line MI	primo ablation
4	82	M	354	174	Macroreentrant	Perimitral	Clockwise	Anterior Line	persAF
5	65	M	250	91	Macroreentrant	Perimitral	Counterclockwise	Line MI	persAF
7	75	M	240	225	Macroreentrant	Perimitral	Counterclockwise	Line MI	AF
8	76	M	290	153	Macroreentrant	Perimitral	Counterclockwise	Line MI	persAF
15	70	M	305	126	Macroreentrant	Perimitral	Clockwise	Line MI	persAF
18	68	M	260	143	Macroreentrant	Perimitral	Clockwise	Line MI	paroxAF
19	62	M	240	141	Macroreentrant	Perimitral	Clockwise	Line MI	persAF
20	48	M	240	172	Macroreentrant	Perimitral	Clockwise	Line MI	persAF
1	56	M	260	112	Macroreentrant	Anterior wall of LA	-	Line from LAA to RPV	persAF
12	78	F	480	150	Macroreentrant	Anterior wall of LA	-	Anterior Line	paroxAF
13	67	M	290	153	Macroreentrant	Roof of the LA	-	Roof RPV to LPV	paroxAF
17	64	F	570	178	Macroreentrant	Anterior LAA	-	Line LAA	persAF
6	72	M	400	134	Focal	Roof of the LA	-	-	paroxAF
9	77	M	270	175	Focal	Anterior wall of LA	-	-	left AT
10	59	M	240	130	Focal	Anterior wall of LA	-	-	persAF
11	76	M	315	150	Focal	Roof of the LA	-	-	primo ablation
14	59	M	360	147	Focal	Ridge	-	-	persAF
16	76	M	330	200	Focal	Anterior wall of LA	-	-	persAF

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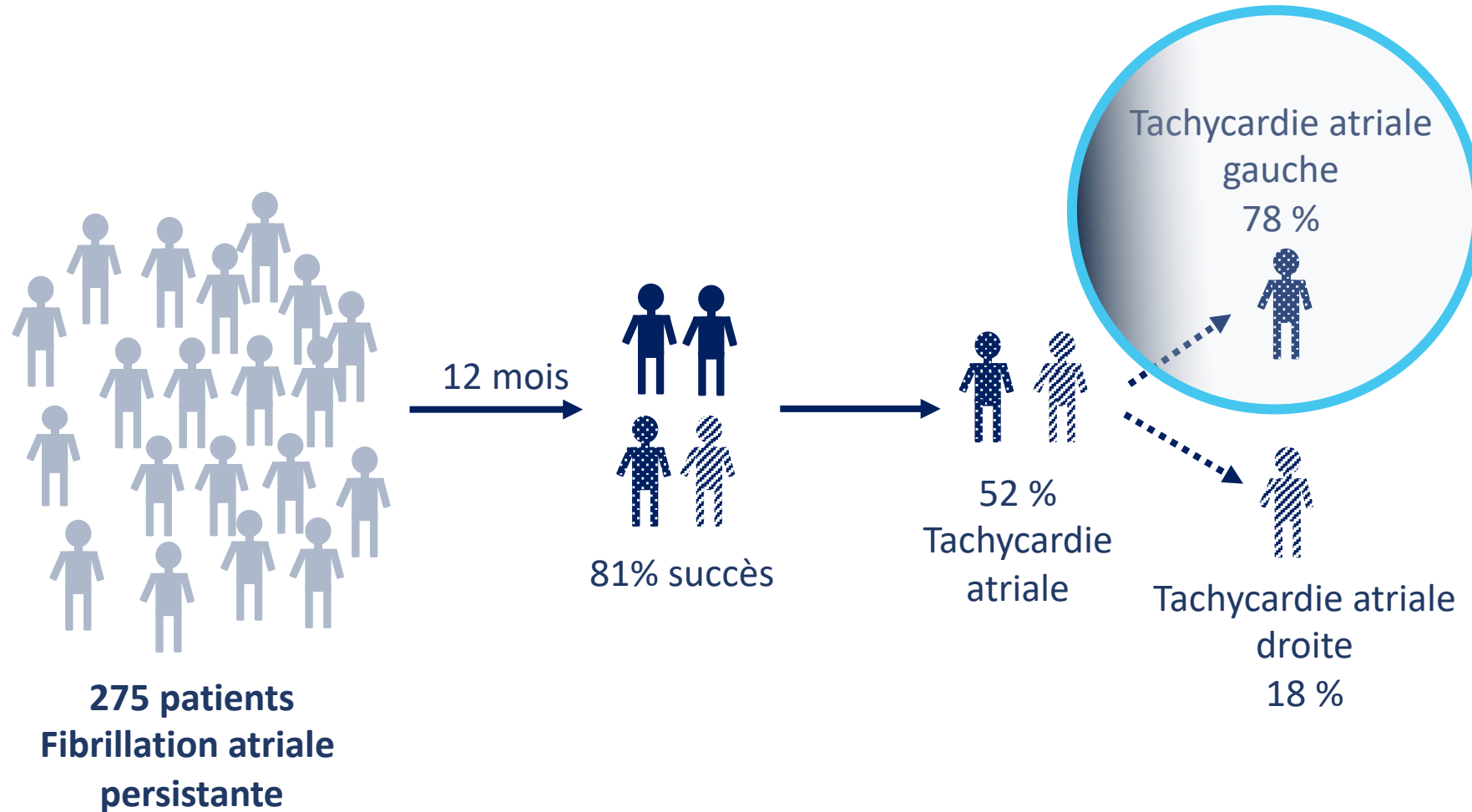
An improved window of interest for electroanatomical mapping
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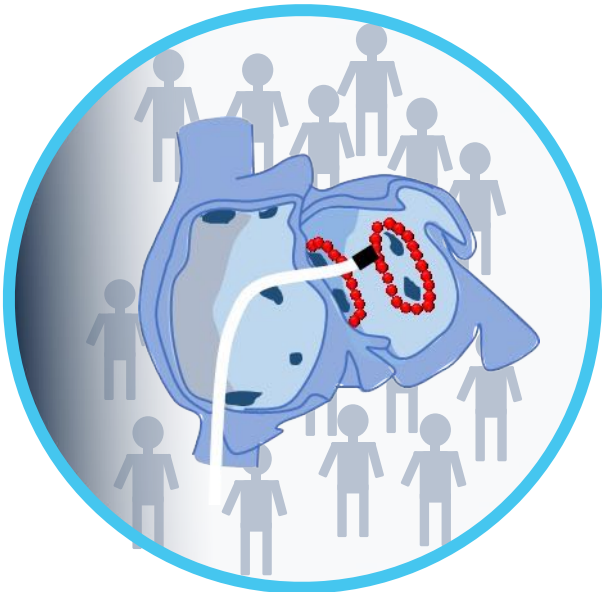
MAPPING ATRIAL en 2023



L'ablation du Flutter atrial gauche récidivant: Clairval



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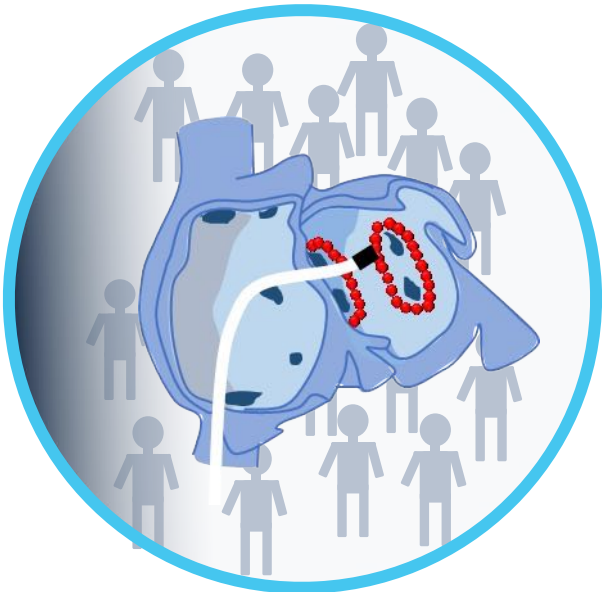
19 patients
Redux

6 mois

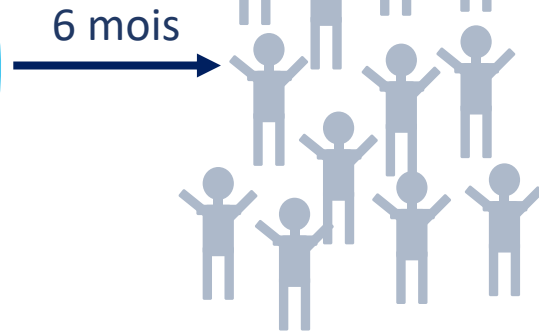


63% de succès

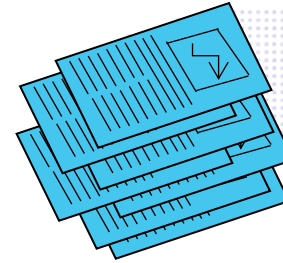
L'ablation du Flutter atrial gauche récidivant: Clairval



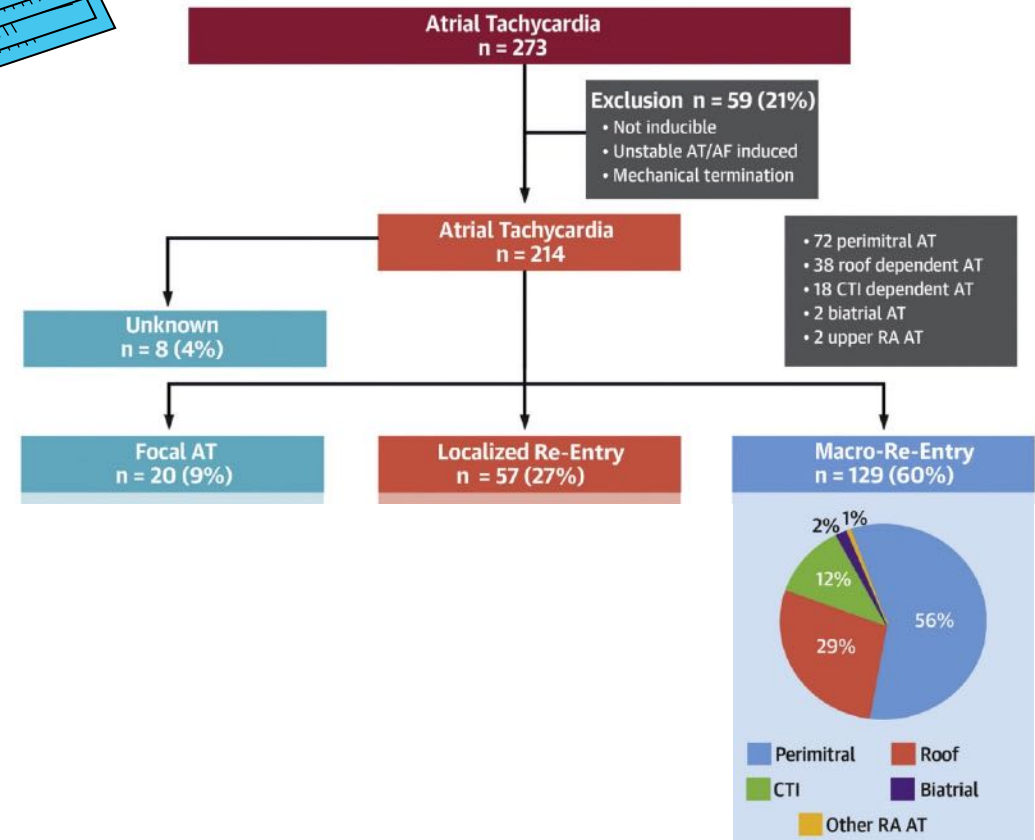
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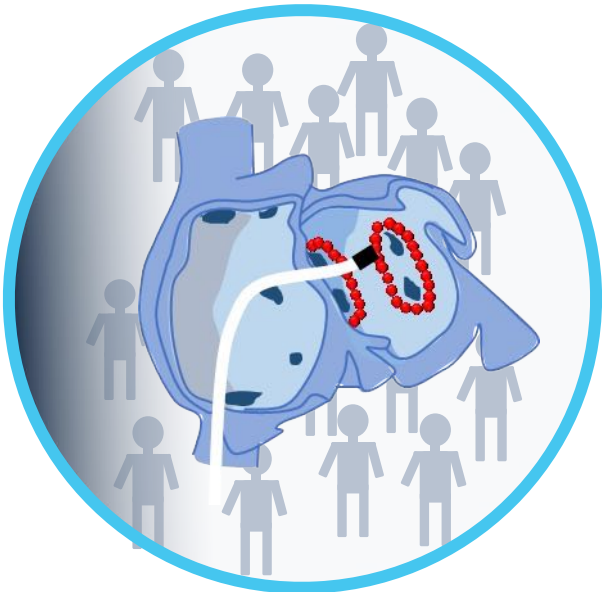
63% de succès



Derval et al, JACC 2020 [132 patients] :
54% de succès [13 month FU]

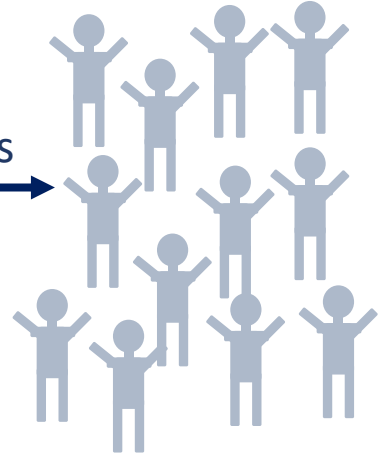


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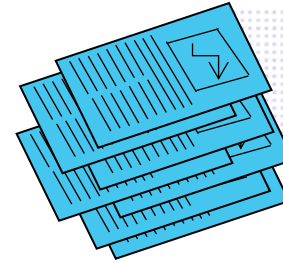


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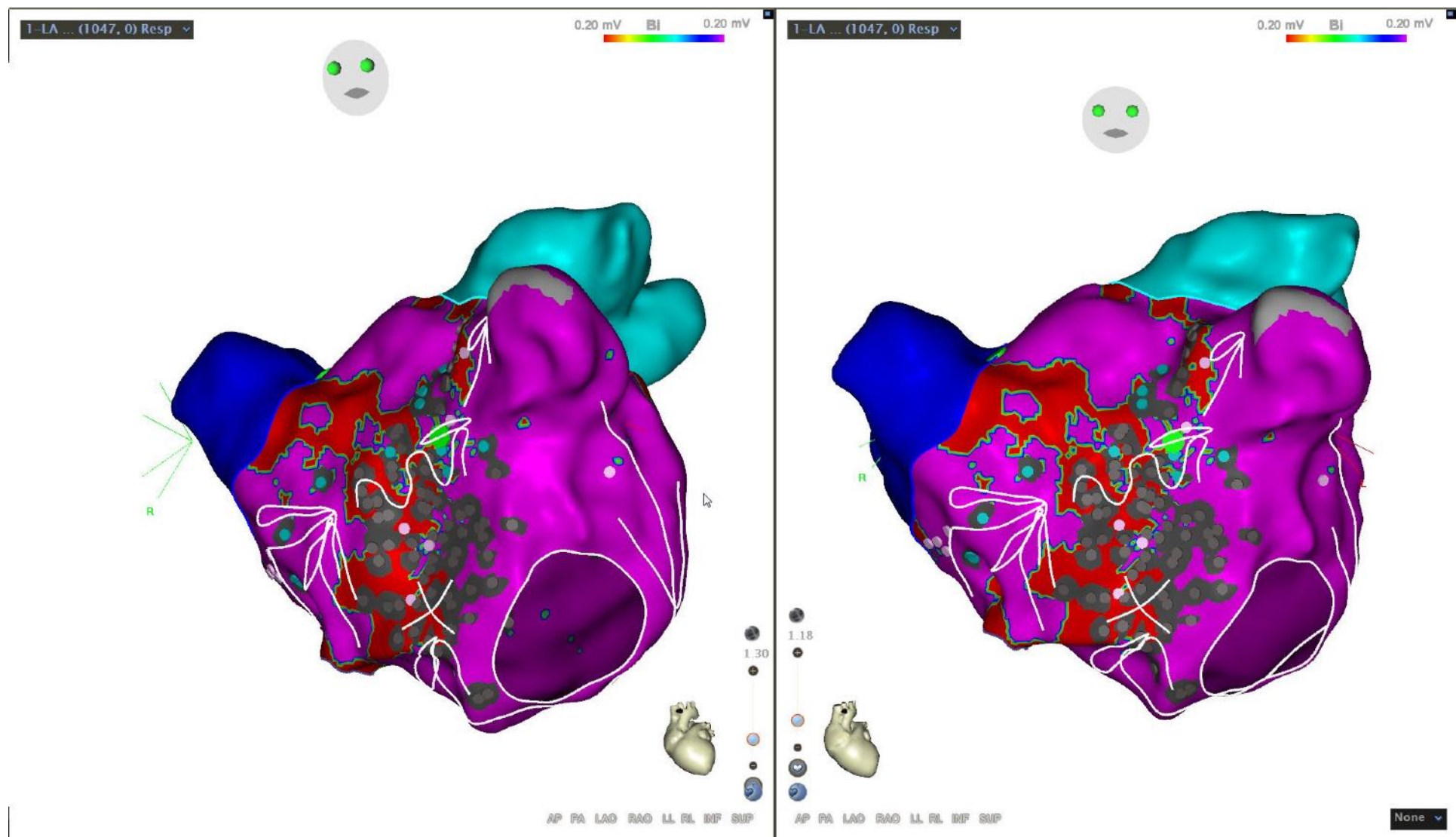


Choi et al, JICE 2021
76% de succès [30 month FU]

Table 2 Acute and long-term success rates by substrate and ablation site

	Acute success % (#/n)	95% CI	Long-term success % (#/n)	95% CI
All patients	90 (82/91)	82–95%	77 (70/91)	67–85%
Substrate				
Number of AT sites				
1	93 (37/40)	80–98%	83 (33/40)	67–93%
2	90 (27/30)	73–98%	77 (23/30)	58–90%
≥3	86 (18/21)	64–97%	67 (14/21)	43–85%
Prior ablation	88 (52/59)	77–95%	75 (44/59)	62–85%
PVI only	81 (17/21)	58–95%	67 (14/21)	43–85%
PVI + additional site	92 (35/38)	79–98%	79 (30/38)	63–90%

Causes de récurrences



Conclusion

- Les flutters atriaux gauche surviennent le plus souvent après une ablation de FA
- Les progrès continus des systèmes de navigation améliorent leur compréhension
- Le taux de succès s'est considérablement amélioré
- Prévenir le patient du risque de récurrence



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