



L'essentiel de l'année en rythmologie : Ablation



Cédric Klein

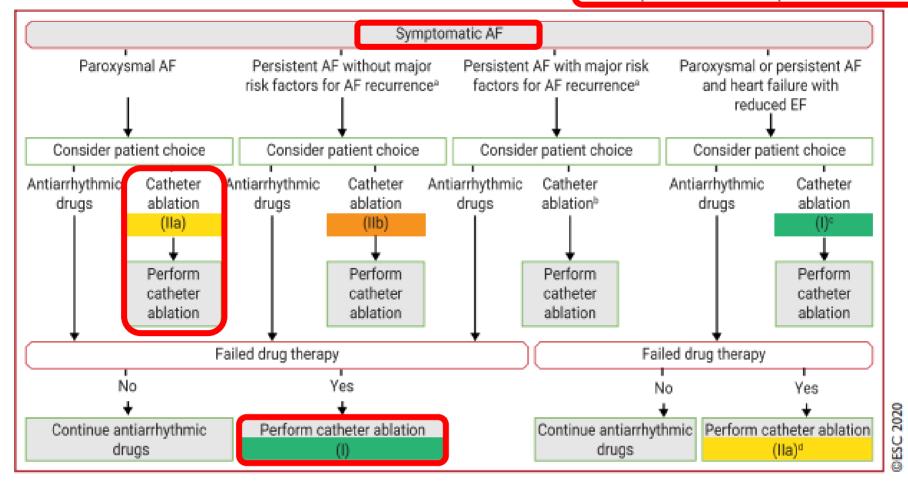


2020 ESC Guidelines for the diagnosis and management of atrial fibrillation developed in collaboration with the European Association of Cardio-Thoracic Surgery (EACTS)





relief,⁶¹⁷ and AF catheter ablation is generally not indicated in asymptomatic patients. Further important evidence regarding the impact of



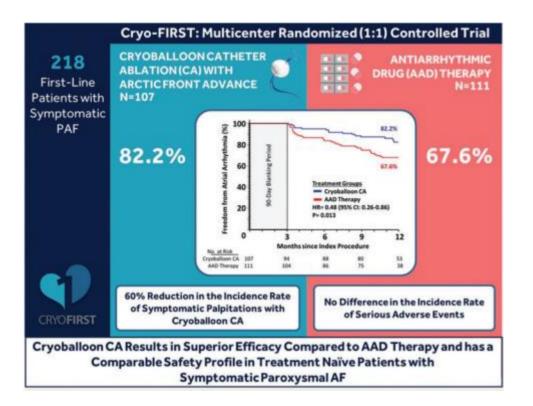


First-line management of paroxysmal atrial fibrillation: is it time for a 'pill in the bin' approach? A discussion on the STOP AF First, EARLY AF, Cryo-FIRST, and EAST-AF NET 4 clinical trials

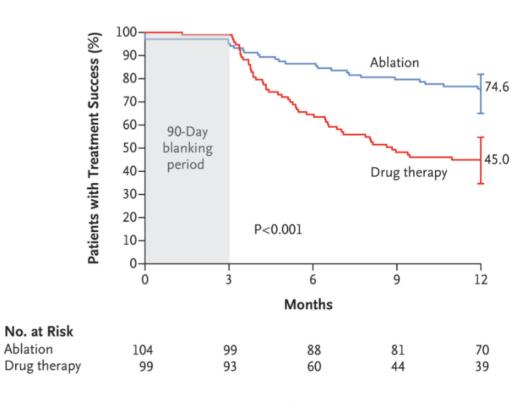
Lisa W M Leung X, Zaki Akhtar, Sreenivasa Rao Kondapally Seshasai, Mark M Gallagher

EP Europace, Volume 24, Issue 4, April 2022, Pages 533-537.

Cryo-FIRST



STOP-AF



Rhythm control in asymptomatic 'early' atrial fibrillation: birth of a new paradigm?

Robert Hatala 🔀

European Heart Journal, Volume 43, Issue 12, 21 March 2022, Pages 1231-1233,

EAST – AFNET 4 trial population

2789 patients with atrial fibrillation diagnosed within a year prior to randomization and cardiovascular conditions approximating a CHA₂DS₂VASc score of ≥ 2

Early Rhythm Control in all patients (n=1305/2633)

Usual Care, including symptom-directed rhythm control therapy (n=1328/2633)

Asymptomatic at baseline (n=395)

Symptomatic at baseline (n=910)

Asymptomatic at baseline (n=406)

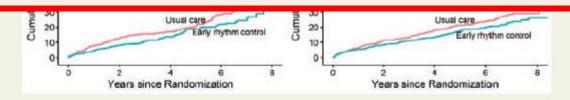
Symptomatic at baseline (n=922)

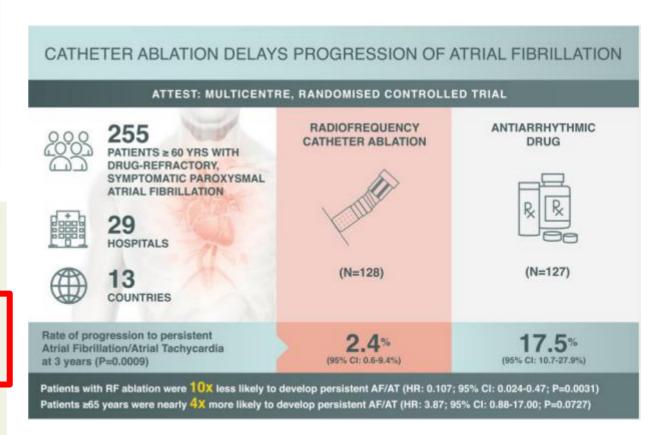
Similar reduction of cardiovascular death, stroke, or hospitalisation for heart failure or acute coronary syndrome in symptomatic and asymptomatic patients

A asymptomatic at baseline

B symptomatic at baseline

Our findings support the systematic, early initiation of rhythm control therapy in asymptomatic patients with atrial fibrillation and concomitant cardiovascular conditions.





10.1093/europace/euaa298







Pulmonary vein isolation using cryoballoon ablation versus RF ablation using ablation index following the CLOSE protocol: A prospective randomized trial

Cathrin Theis MD , Bastian Kaiser MD, Philipp Kaesemann MD, Felix Hui MD, Giancarlo Pirozzolo MD, Raffi Bekeredjian MD, Carola Huber MD

First published: 23 January 2022 | https://doi.org/10.1111/jce.15383

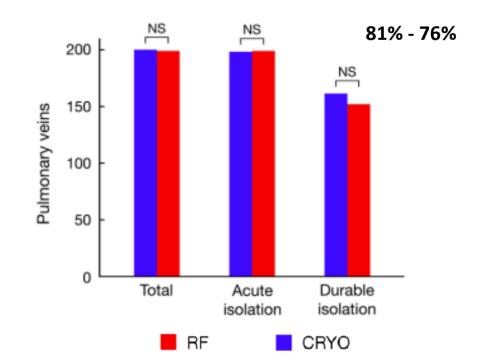
Conclusions: Cryoballoon PVI and PVI using ablation index following the CLOSE protocol are equally efficient in achieving durable PV isolation. In this study, cryoballoon ablation led to significantly more AF recurrence during the blanking period.

Cryoballoon Versus High-Power, Short-Duration Radiofrequency Ablation for Pulmonary Vein Isolation in Patients With Paroxysmal Atrial Fibrillation

In this prospective randomized study comparing the two ablation strategies in patients with PAF, the Cryo-PVI and HPSD-RFCA procedures had a similar efficacy and safety during an average of a 9.8±5.1-month follow-up despite

Radiofrequency Versus Cryoballoon Catheter Ablation for Paroxysmal Atrial Fibrillation: Durability of Pulmonary Vein Isolation and Effect on Atrial Fibrillation Burden

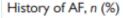
The RACE-AF Randomized Controlled Trial





Cryoballoon vs. radiofrequency catheter ablation: insights from NOrwegian randomized study of PERSistent Atrial Fibrillation (NO-PERSAF study)

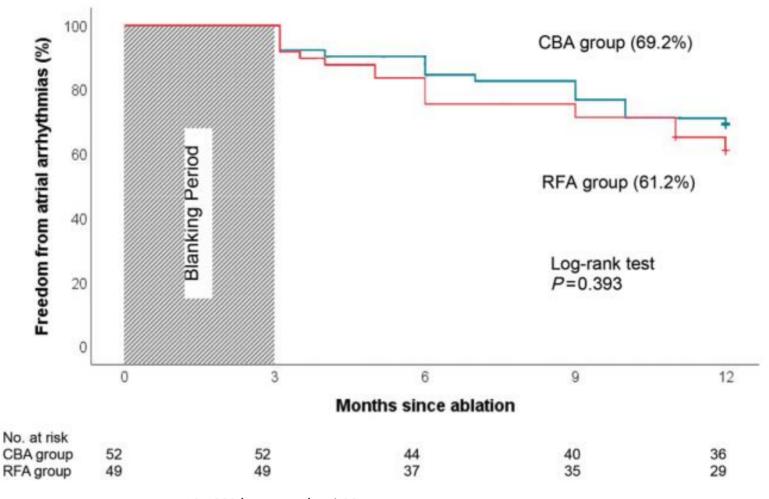




- <1 year
- 1-2 years
- >2 years

Duration of persistent AF before procedure Sinus rhythm before procedure, n (%)

- <6 months
- 6-12 months
- >12 months



10.1093/europace/euab281

Pulsed-Field Ablation for Atrial Fibrillation

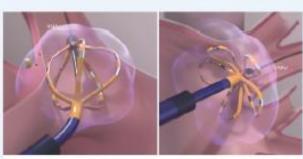
The Future Is Now?*

Nilesh Mathuria, MD

Pulsed Field Ablation of Paroxysmal Atrial Fibrillation

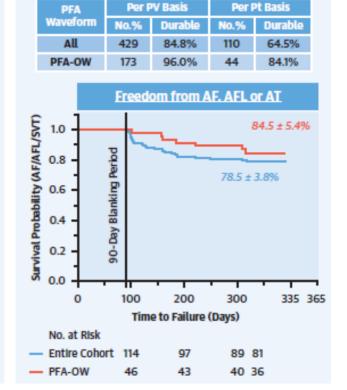
1-Year Outcomes of IMPULSE, PEFCAT, and PEFCAT II

PFA Catheter & Mechanism of Ablation





Safety Esophageal Damage 0% Esophageal Dysmotility 0% Atrioesophageal Fistula 0% Pulmonary Vein Stenosis 0% · Phrenic Nerve Injury 0% Stroke 0% Transient Ischemic Attack 0.9% Pericardial Effusion 0.8% Vascular injury 1.7% Death 0%



Efficacy

Durability of PV Isolation (Invasive Remapping)

Donc pour la FA

- ✓ En première ligne en cas de FA paroxystique
- A discuter si asymptomatique + comorbidités
- Cryo ≈ Radiofréquence (efficacité, complications)
- Cryo dans la FA persistante ?
- Electroporation

...et pour la TV?



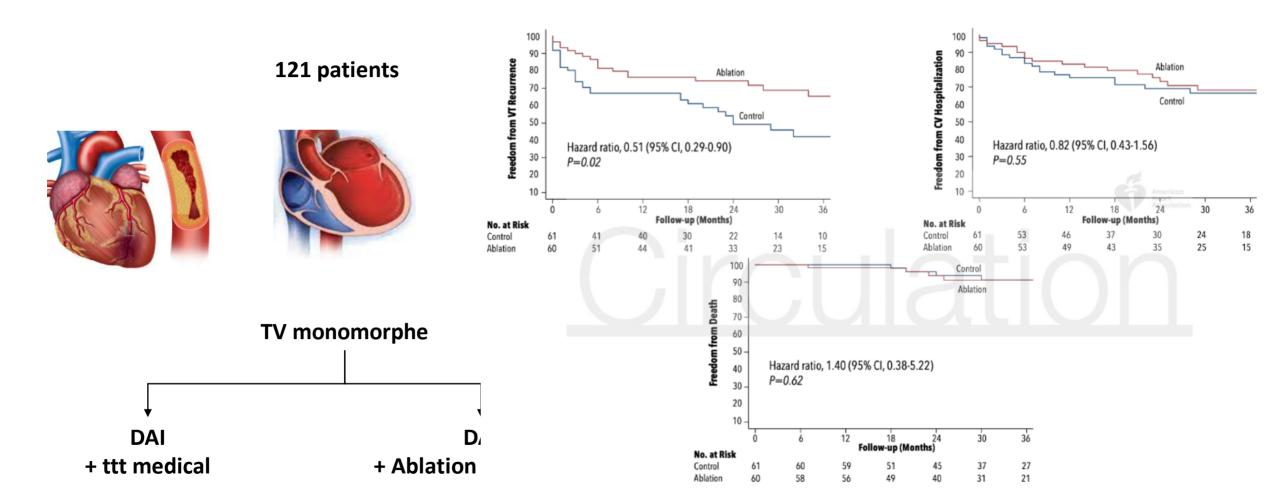
First-Line Catheter Ablation of Monomorphic Ventricular Tachycardia in



Cardiomyopathy Concurrent with Defibrillator Implantation: The PAUSE-

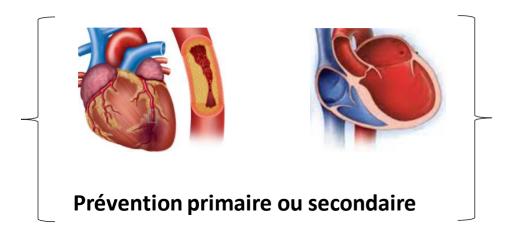
SCD Randomized Trial

10.1161/CIRCULATIONAHA.122.060039



Does Timing of Ventricular Tachycardia Ablation Affect Prognosis in Patients With an Implantable Cardioverter Defibrillator? Results From the Multicenter Randomized PARTITA Trial

10.1161/CIRCULATIONAHA.122.059598



Phase A: observationnelle n=517

Phase B: randomisation après 1^{er} choc

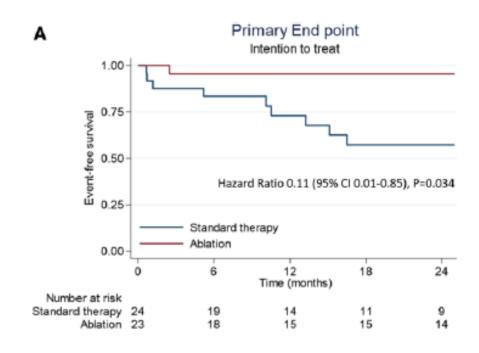
Poursuite ttt médical

n=47

randomization or until the end of the study. In phase B, amiodarone was only allowed as a bridge to ablation after a VT storm.



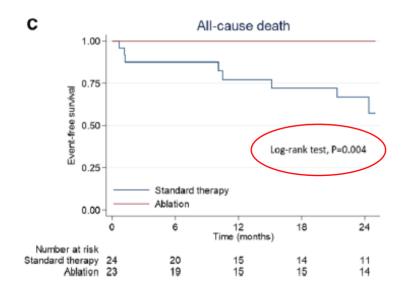
CJP = décès toute cause ou aggravation IC menant à une hospitalisation

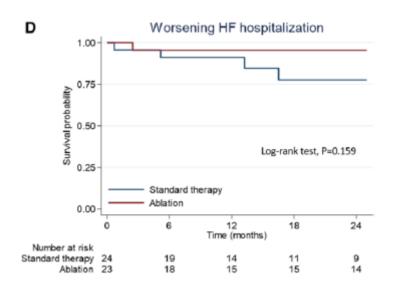


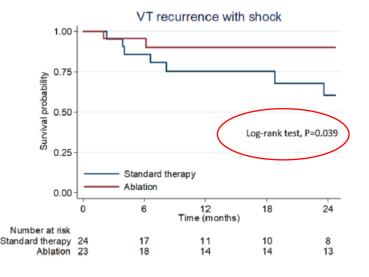
Ablation immédiate

Does Timing of Ventricular Tachycardia Ablation Affect Prognosis in Patients With an Implantable Cardioverter Defibrillator? Results From the Multicenter Randomized PARTITA Trial





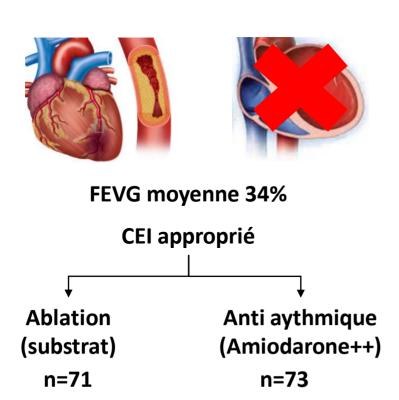




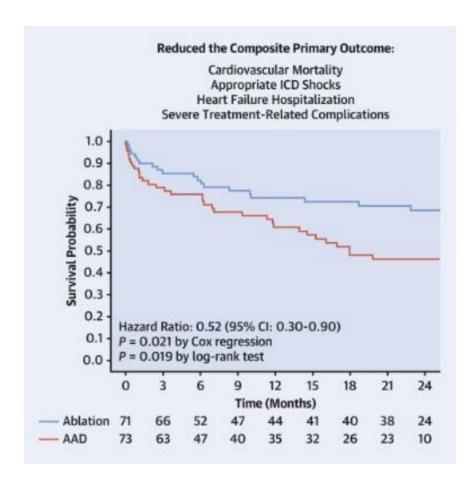
Substrate Ablation vs Antiarrhythmic Drug Therapy for Symptomatic Ventricular Tachycardia Journal of the American College of

Journal of the American College of Cardiology

Volume 79, Issue 15, 19 April 2022, Pages 1441-1453





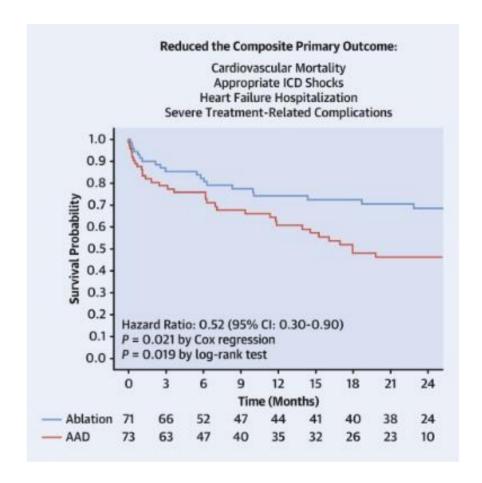


Substrate Ablation vs Antiarrhythmic Drug Therapy for Symptomatic Ventricular Tachycardia Iournal of the American College of

Cardiology Volume 79, Issue 15, 19 April 2022, Pages 1441-1453

Substrate Ablation vs AAD Therapy Reduced Similar Rate of Incessant/Undetected Appropriate ICD VT/Electric storm Therapies Hazard ratio: 0.17 Hazard ratio: 1.02 (95% CI: 0.05-0.58) (95% CI: 0.52-2.01) Reduced Similar Rate of Cardiac Hospitalizations **Total Mortality** Hazard ratio: 0.42 Hazard ratio: 0.69 (95% CI: 0.22-0.82) (95% CI: 0.15-3.08)







stereotactic radiotherapy AND ventricular tachycardia

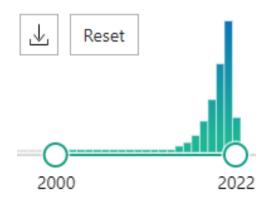
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openheart Cardiac stereotactic ablative radiotherapy for control of refractory ventricular tachycardia: initial UK multicentre experience

CLINICAL VENTRICULAR TACHYCARDIA | VOLUME 18, ISSUE 12, P2137-2145, DECEMBER 01, 2021

Recommendations regarding cardiac stereotactic body radiotherapy for treatment refractory ventricular tachycardia

ARTICLE

Check for updates

https://doi.org/10.1038/s41467-021-25730-0

OPEN

Cardiac radiotherapy induces electrical conduction reprogramming in the absence of transmural fibrosis



Conclusion

- Dans la prise en charge des arythmies ventriculaires
 - Peut être envisagé précocement (place ablation+S-ICD?)
 - Dans tous les cas après un CEI approprié

- Emergence de la radiothérapie
 - Dans l'attente d'essais randomisés vs. ablation



 Nombreux autres sujets (alcoolisation veineuse, zero-fluoro, half saline etc)