

# Atrial Fibrillation: Management

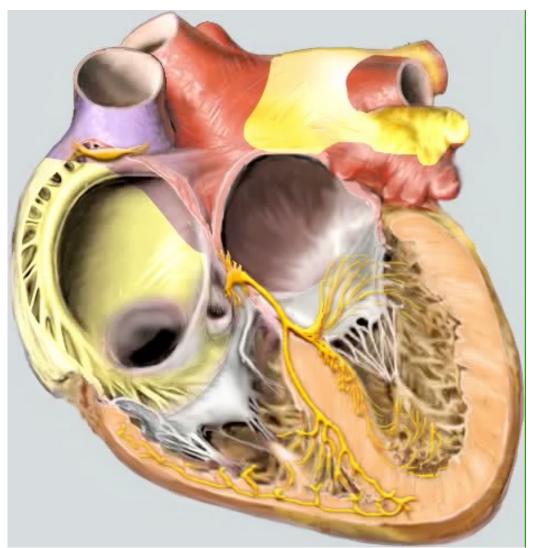
Tuesday 20<sup>th</sup> February 1pm John Whitaker, Consultant Cardiologist and Electrophysiologist

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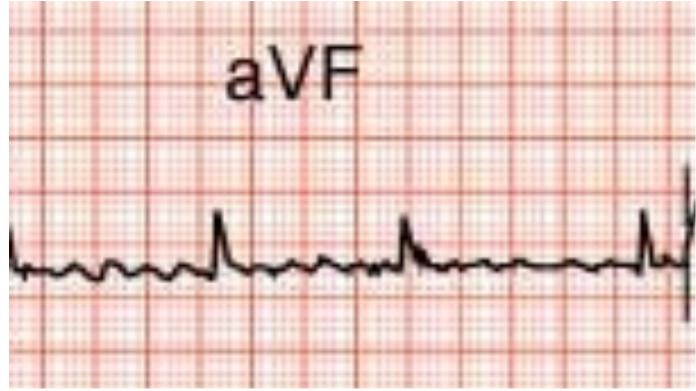
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## Diagnosis





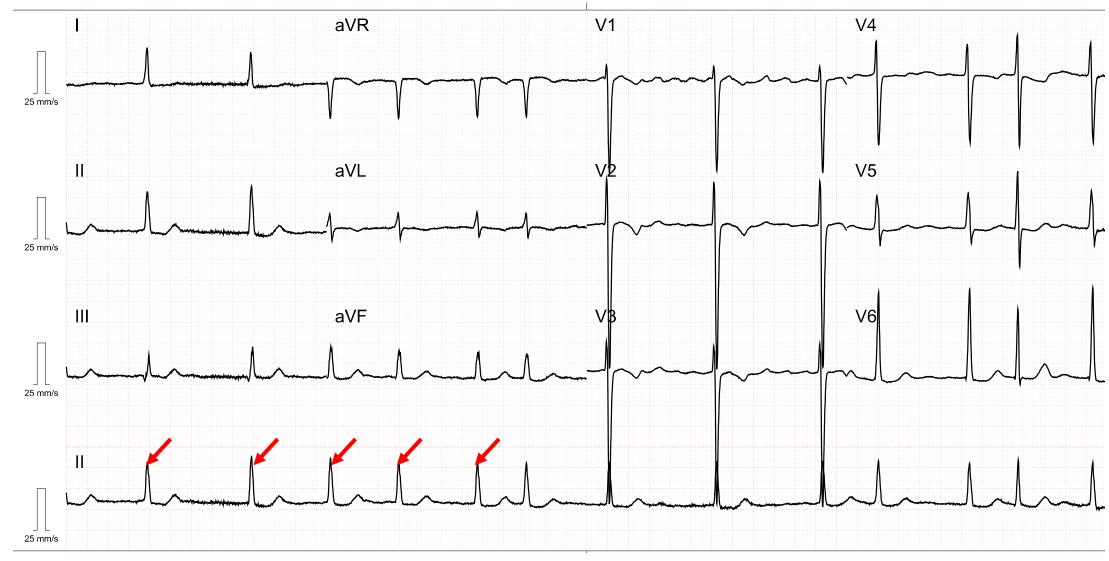
## Absence of *any pattern of organized electrical activation* in the atria







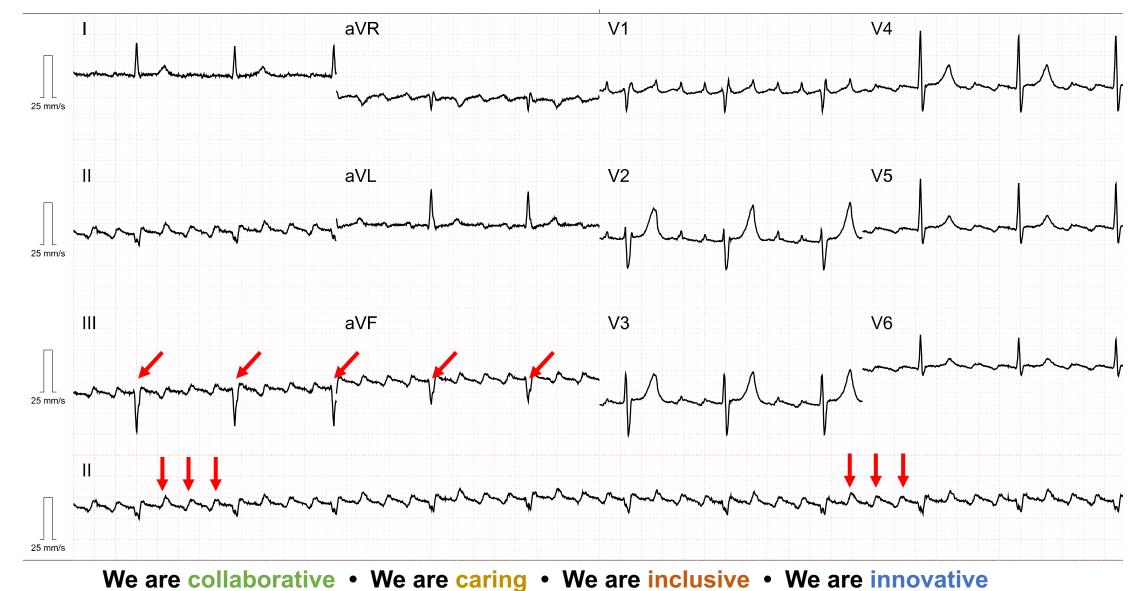
#### **Atrial fibrillation**



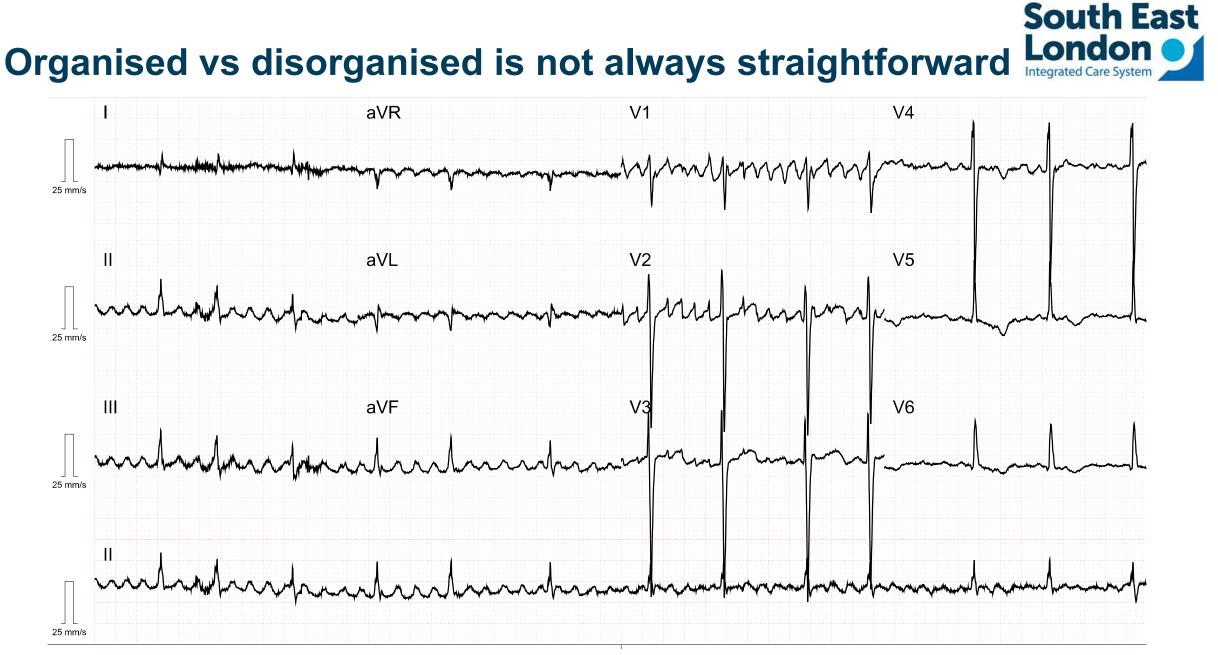




## 'Typical' (CTI dependent) atrial flutter







## The best way to capture AF?

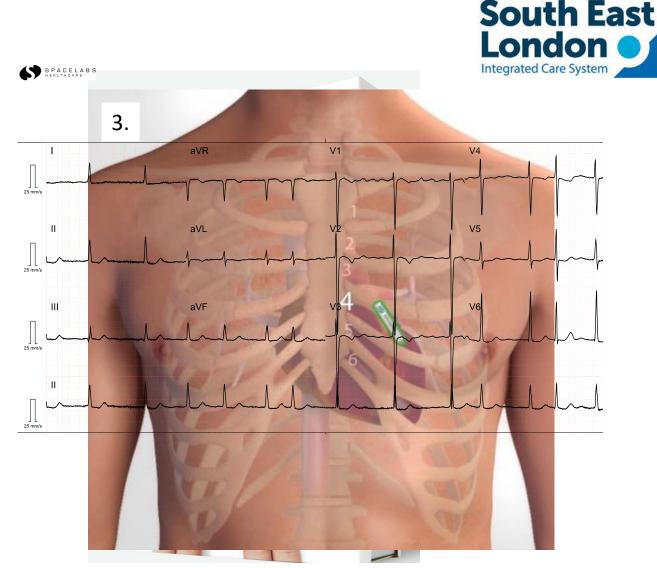
12-lead ECG if persistent arrhythmia

If paroxysmal symptoms of palpitations then *frequency* of symptoms, *duration* of symptoms and *patient* preference and motivation key

Ambulatory wearable monitoring

Patient activated monitors

Implantable monitors



https://www.irhythmtech.com/patients/how-it-works
https://store.alivecor.co.uk/products/kardiamobile
https://www.medtronic.com/uk-en/index.html



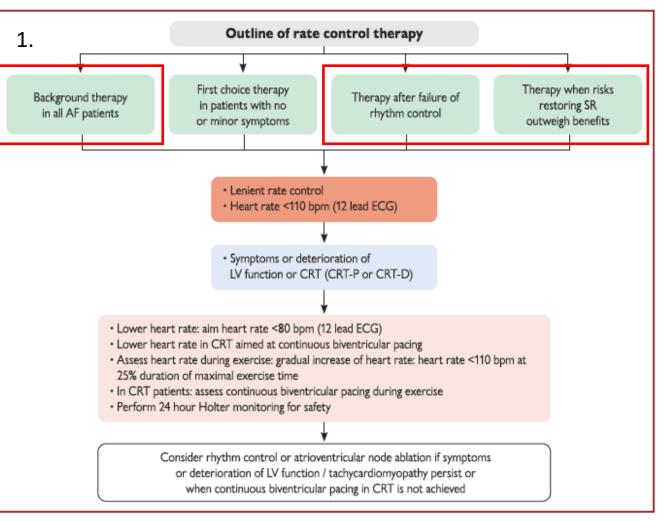
#### **Rate control**

**Beta blockers** 

**Calcium blockers** 

Digoxin

Pacemaker and atrioventricular junction (AVJ) ablation



1. Hindricks and colleagues EHJ, 2020 (ESC AF guidelines)

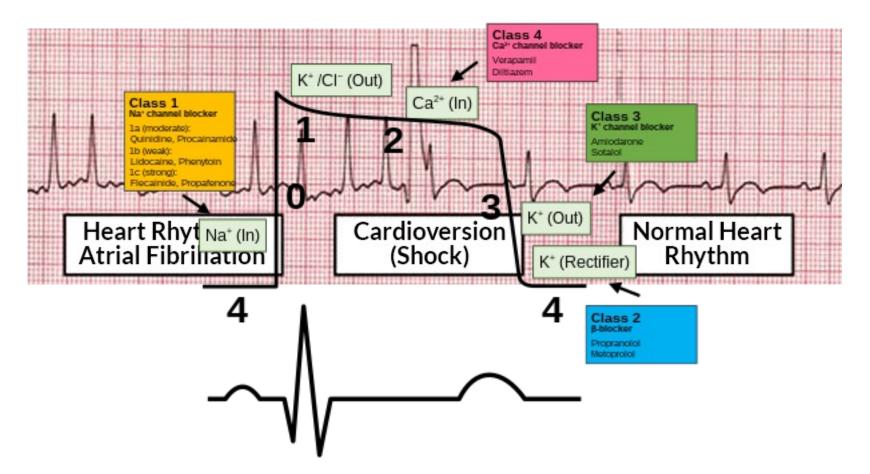


#### **Rhythm control**

**DC cardioversion** 

**Anti-arrhythmic drugs** 

**Catheter ablation** 





### **Catheter ablation**

**Most effective strategy** for maintaining sinus rhythm

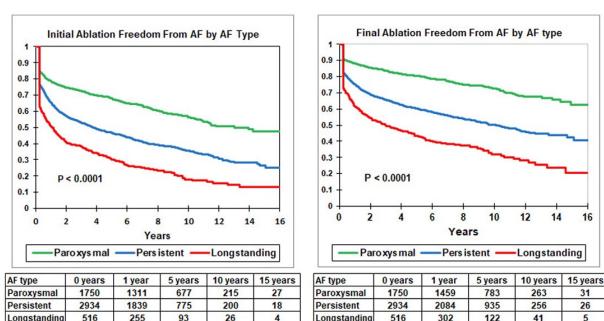
Best outcomes are achieved in **young patients**, with **paroxysmal AF** and **structurally normal hearts** 

Also appropriate for other groups in whom an **aggressive attempt to restore and maintain sinus rhythm is justified** 

Associated with a risk of complications of the order of 5%, of which the majority are vascular (1) but include life changing complications

At 5-years outcomes in PAF 70 – 80% free from AF

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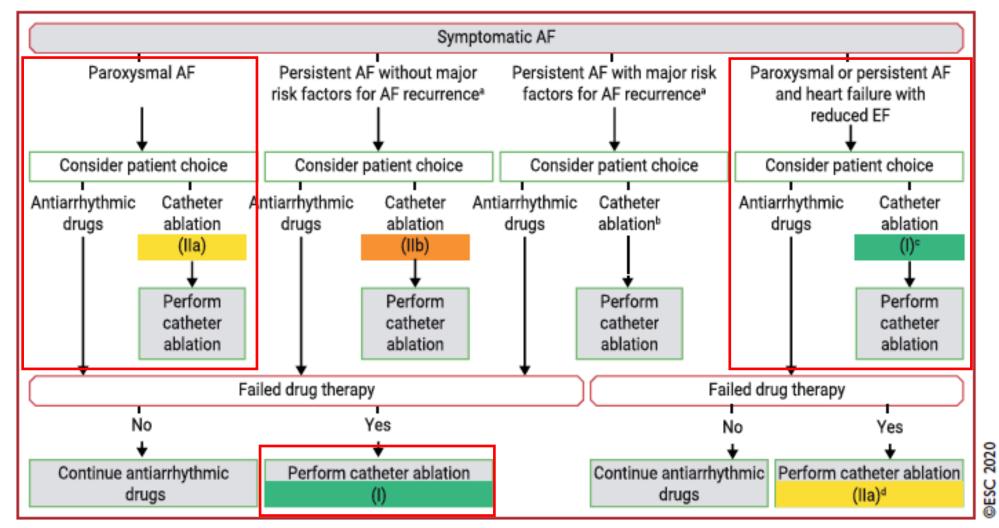


1. Joglar and colleagues, Circ, 2023

2. Winkle and colleagues, HR, 2023

### South East London

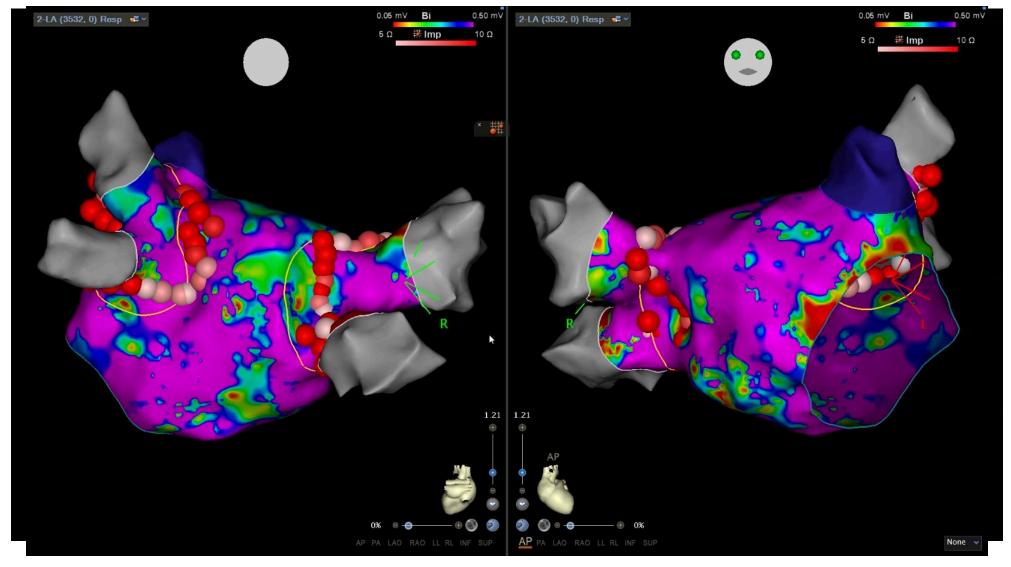
## Indications for catheter ablation of AF



1. Hindricks and colleagues EHJ, 2020 (ESC AF guidelines)



#### **Catheter ablation**





## Summary

- Critical to *document* the arrhythmia
- Rhythm control should be considered when a new diagnosis of AF is made
- Sinus rhythm is most effectively achieved through catheter ablation
- Catheter ablation most effective early in the natural history of AF
- Consider **aggressive attempt to restore sinus rhythm** in patients with **heart failure**

#### Thank you for your attention

