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Cardiothoracic Surgery Series of Review











Main pathophysiological theories

Atrial structural alterations

Pericardial effusion and inflammation

•Gap junction uncoupling

Peri-atrial adipose tissue metabolic activity

Myocardial ischemia

Ion channels modifications



CHADS2: IT IS A Clinical Scoring system to determine the stroke risk in valvular AF. It is composed of congestive heart failure, Hypertension, Age > 75 years, Diabetes mellitus, and previous Stroke. Each item gets a point except previous stroke which takes 2 points. The strongest item is prior stroke. The annual risk of stroke is between 1.9 to 18.2 in scores between 0 and score 6. (CHADS2.Six)





CHADS2 VASC included *female gender, age 65 years and more and vascular disease*. Age 75 years and more get 2 points. Presence of aortic plaque(s) carries the same weight as peripheral vascular disease. *Scores are 0-9. (CHADS2Vasc.9)*

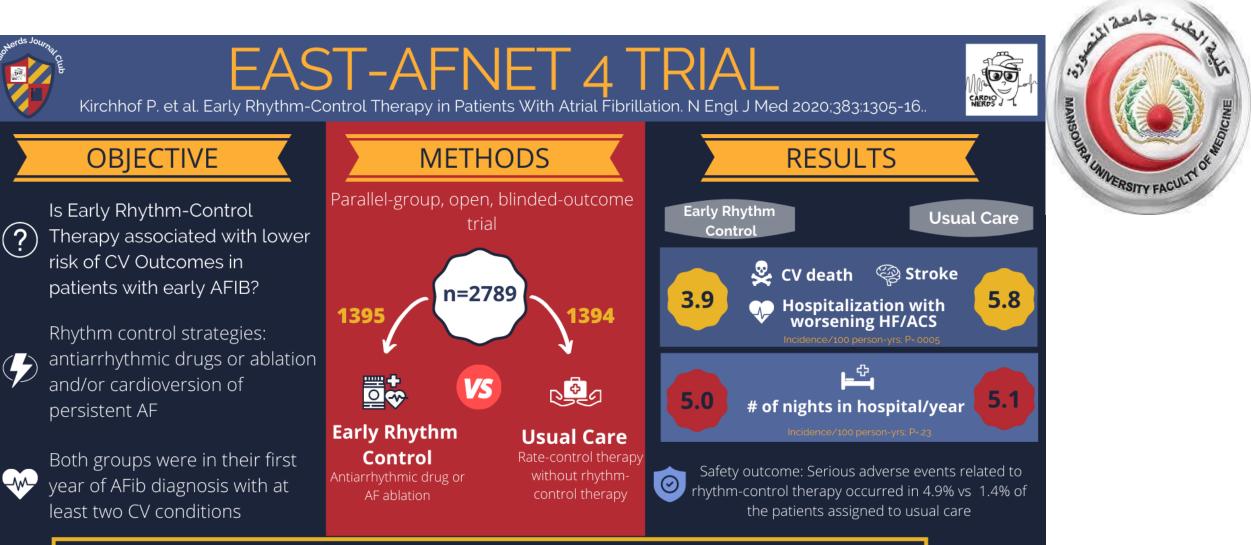




Affirm trial

The Atrial Fibrillation Follow-up Investigation of Rhythm Management (AFFIRM) trial sought to compare total mortality between two treatment strategies for Atrial Fibrillation: maintenance of sinus rhythm, or ventricular response rate control.





Conclusion: Early rhythm control was associated with a lower risk of CV outcomes than usual care among patients with early AF and CV conditions

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The Factors favouring rhythm control are:

- **1. Patient preference**
- 2. Severe symptoms in an active patient.
- **3. Difficult or failed rate control**
- 4. Early or paroxysmal AF
- **5. LV dysfunction.**
- 6. Acute AF
- 7. LA is not hugely dialated.





