

# Are you "Fibbing" again?

Shirley Mohr-Burt APRN



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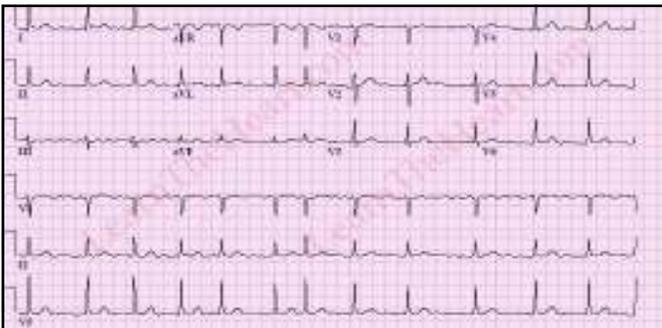
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Atrial Fibrillation—What is it?



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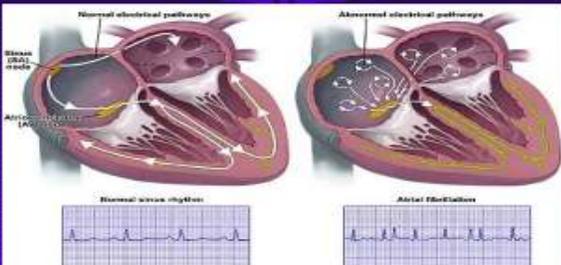
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The hallmark of AF is chaotic atrial impulses leading to irregularly irregular ventricular contraction, usually with incessant tachycardia



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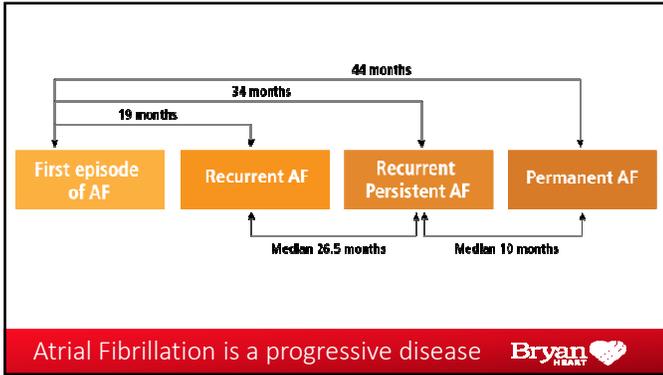
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People with Atrial Fibrillation have

4-5 times greater risk of stroke

AF and stroke risk

**Bryan HEART**

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**CHA<sub>2</sub>DS<sub>2</sub>-VASc**

| CHA <sub>2</sub> DS <sub>2</sub> -VASc criteria  | Score | Total score | Patients (n=7329) | Adjusted stroke rate (%/year)* |
|--|-------|-------------|-------------------|--------------------------------|
| Congestive heart failure/left ventricular dysfunction                                      | 1     | 0           | 1                 | 0.0                            |
| Hypertension   | 1     | 1           | 422               | 1.3                            |
| Age ≥75 yrs  | 2     | 2           | 1230              | 2.2                            |
| Diabetes mellitus  | 1     | 3           | 1730              | 3.2                            |
| Stroke/transient ischaemic attack/thromboembolism  | 2     | 4           | 1718              | 4.0                            |
| Vascular disease (prior myocardial infarction, peripheral artery disease or aortic plaque) | 1     | 5           | 1159              | 6.7                            |
| Age 65-74 yrs  | 1     | 6           | 679               | 9.8                            |
| Sex category (i.e. female gender)  | 1     | 7           | 294               | 9.6                            |
|  |       | 8           | 82                | 6.7                            |
|  |       | 9           | 14                | 15.2                           |

\*Theoretical rates without therapy; assuming that warfarin provides a 64% reduction in stroke risk, based on Hart RG et al. 2007

Lip G et al. Chest 2010;137:363-72; Lip G et al. Stroke 2010; 41:2733-8; Camm J et al. Eur Heart J 2010; 31:2369-429; Hart RG et al. Ann Intern Med 2007;146:857-67.

**Bryan HEART**

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**Prevention of Thromboembolism**

- With AF or atrial flutter for ≥48 h, or unknown duration, anticoagulate with warfarin for at least 3 wk before and 4 wk after cardioversion (Class I)
- With AF or atrial flutter for >48 h or unknown duration, requiring immediate cardioversion, anticoagulate as soon as possible and continue for at least 4 wk (Class I)
- With AF or atrial flutter <48 h and high stroke risk, IV heparin or LMWH, or factor Xa or direct thrombin inhibitor, is recommended before or immediately after cardioversion, followed by long-term anticoagulation (Class I)
- With AF or atrial flutter <48 h and low thromboembolic risk, IV heparin, LMWH, a new oral anticoagulant, or no antithrombotic may be considered for cardioversion (Class IIb)

Rhythm Control




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**Direct-current cardioversion**

- Cardioversion is recommended for AF or atrial flutter with RVR, that does not respond to pharmacological therapies and contributes to ongoing myocardial ischemia, hypotension, or HF (Class I)
- Cardioversion is recommended for AF or atrial flutter and pre-excitation with hemodynamic instability (Class I)

Rhythm Control




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**Pharmacological cardioversion**

- Flecainide, dofetilide, propafenone, and IV ibutilide are useful for cardioversion of AF or atrial flutter, provided contraindications to the selected drug are absent (Class I)
- Amiodarone is reasonable for pharmacological cardioversion of AF (Class IIa)
- Propafenone or flecainide ("pill-in-the-pocket") to terminate AF out of hospital is reasonable once observed to be safe in a monitored setting (Class IIa)

Rhythm Control




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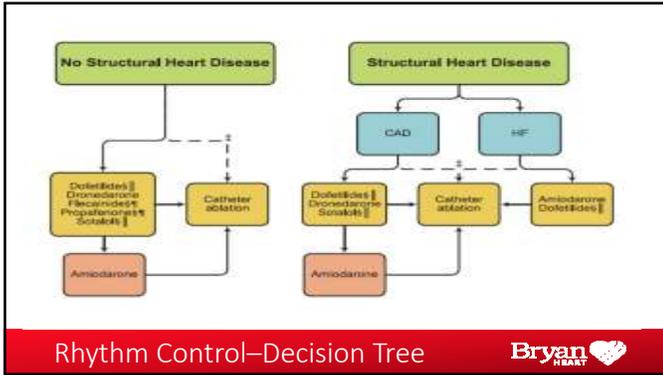
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Rhythm Control–Decision Tree




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### Rate Control

- Control ventricular rate using a beta blocker or non-DHP CCBs for paroxysmal, persistent, or permanent AF (Class I)
- IV beta blocker or non-DHP CCBs is recommended to slow ventricular heart rate in the acute setting in patients without pre-excitation. In hemodynamically unstable patients, electrical cardioversion is indicated (Class I)
- A heart rate control (resting heart rate <80 bpm) strategy is reasonable for symptomatic management of AF (Class IIa)
- IV amiodarone can be useful for rate control in critically ill patients without pre-excitation (Class IIb)

Rate Control




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- Rapid, uncontrolled ventricular rates during AF
- Symptomatic Bradycardic episodes
- Refractory or intolerant of antiarrhythmic therapy

AV Node Ablation




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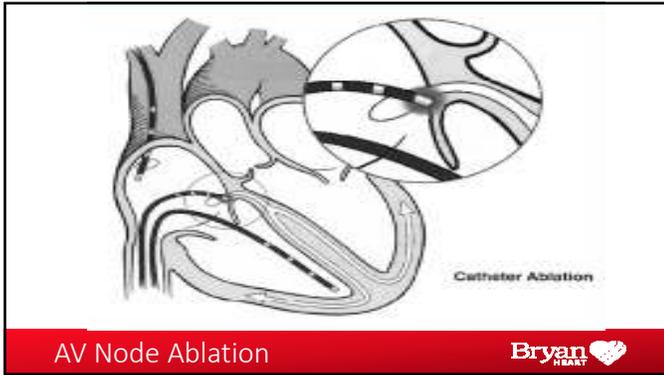
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AV Node Ablation




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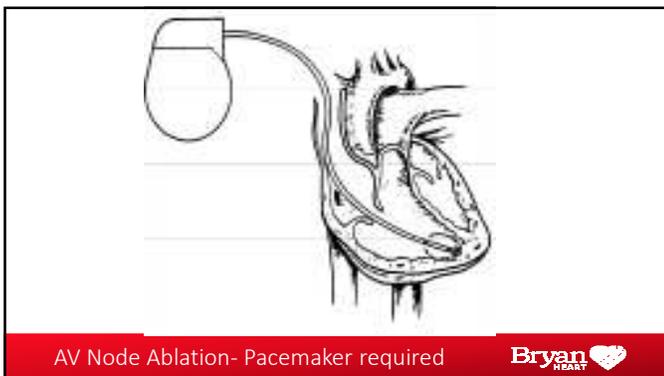
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AV Node Ablation- Pacemaker required




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- Pulmonary vein isolation is a procedure used to stop abnormal electrical signals in your heart that cause heart rhythm problems.
- Pulmonary vein isolation is a type of cardiac ablation. Cardiac ablation works by scarring or destroying tissue in your heart that triggers an abnormal heart rhythm. In some cases, cardiac ablation prevents abnormal electrical signals from traveling through your heart and, thus, stops the heart rhythm problem.
- In pulmonary vein isolation, the procedure creates scar tissue in the part of the left upper chamber of your heart where each of your four pulmonary veins connects. Your pulmonary veins bring oxygen-rich blood from your lungs to your heart. Pulmonary vein isolation can reduce the signs and symptoms of atrial fibrillation, which affects the upper chambers of the heart.

PVI Ablation




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### Why it's done

- Pulmonary vein isolation is used to reduce signs and symptoms and improve quality of life for people living with atrial fibrillation.
- Pulmonary vein isolation usually isn't your first treatment option. Your doctor may recommend that you try to control your atrial fibrillation with other treatments first.

PVI Ablation




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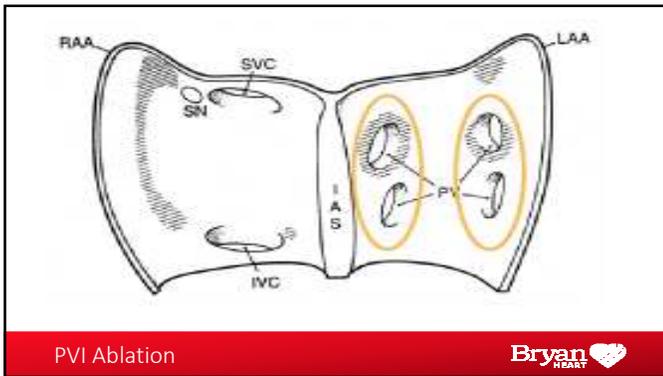
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PVI Ablation




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[www.heart.org](http://www.heart.org)  
[www.uptodate.com](http://www.uptodate.com)

Kearon C, Aki Griffiths, C.L., Vestal, M.L., et al: The Nurse Practitioner. 2017;12(11):8-13.

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Kearon C, Aki EA, Ormelas J, et al. Antithrombotic therapy for VTE disease: CHEST Guideline and Expert Panel Report. Chest. 2016;149(2):315-352.

Pathophysiology of heart disease : a collaborative project of medical students and faculty / editor Lilly, L.S. --Sixth Edition.

References




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