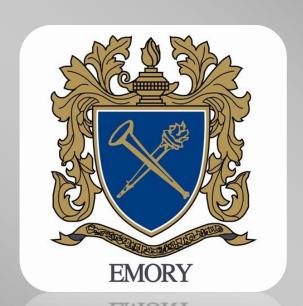
I have atrial fibrillation, What now? 2016

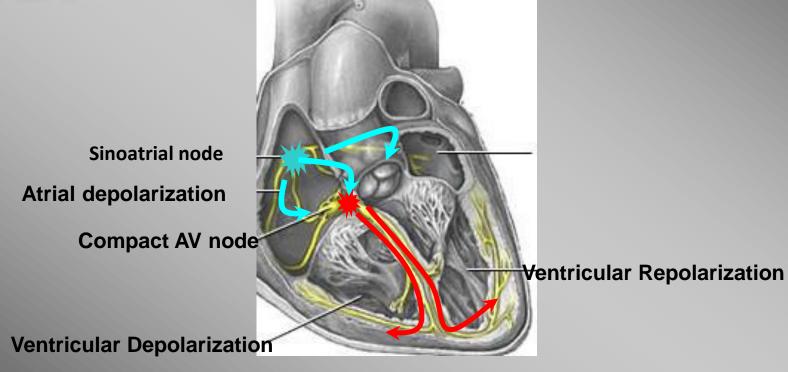


Michael S. Lloyd MD FACC FHRS
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Emory University Hospital
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What exactly is Afib?

QRS





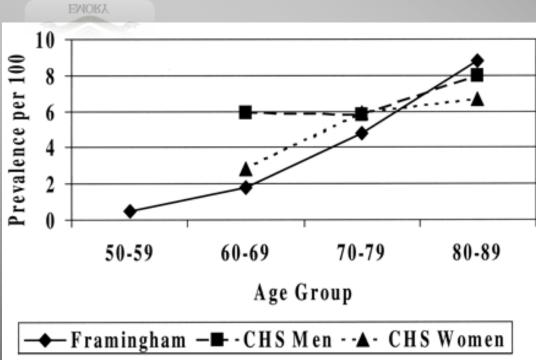
What exactly is Afib?

http://www.blaufuss.org/SVT/index2.html



Why Me?



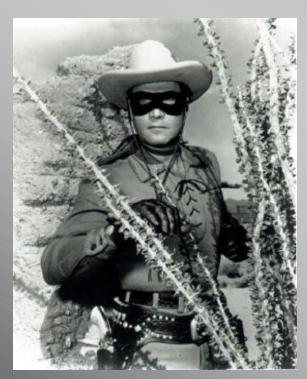


Risk factors for developing AF

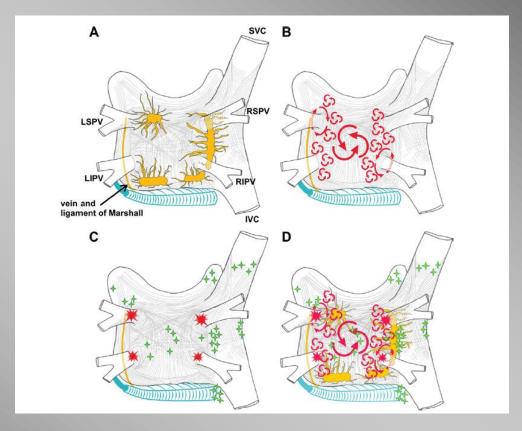
Age over 60
Alcohol
Weight
Family history
Sleep apnea
Diabetes
High Blood Pressure
Valve problems
Lung Disease
**Long distance running
Childhood second hand smoke

THERE ARE MANY TYPES OF ATRIAL FIBRILLATION!



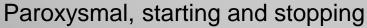


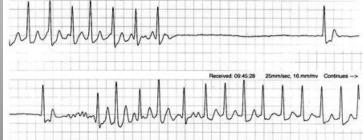
Lone atrial fibrillation, afib with no other known heart problems.



3-P's OF ATRIAL FIBRILLATION!







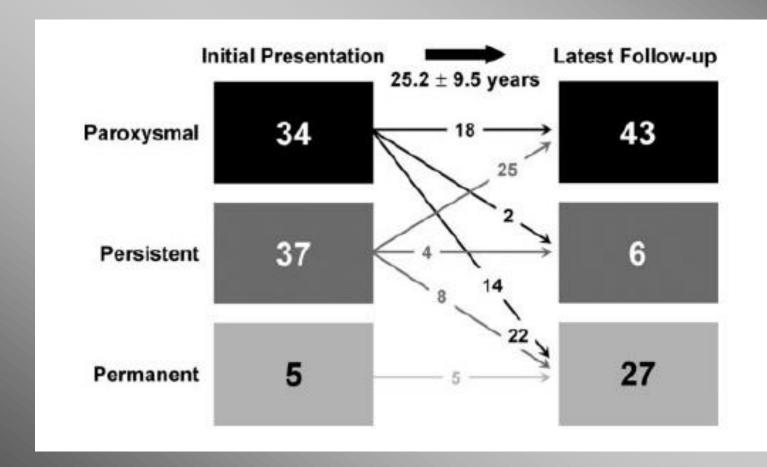
Persistent, requiring intervention



Permanent, staying there



What Does That Mean for My Life?



A Stepwise Approach to Living With Atrial Fibrillation

1. What's my risk for stroke?

2. Do I have symptoms?







B. Do I feel better in normal rhythm?

Rate control (controlling the ventricle's response to the fibrillating atrium)



Rhythm control (trying to keep the atrium in regular rhythm

What can your doctor do?

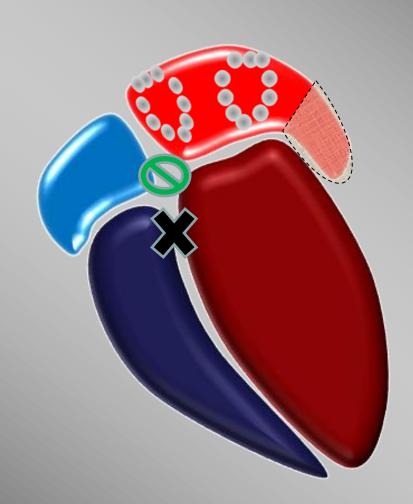


ablation

medications

pacemakers

other devices



Make A Plan With Your MD



Call your doctor if:

You are usually in sinus rhythm, but have AF "attacks" for >12 hours

You have an a very high heart rate at rest >140 bpm

You are having symptoms of Afib after an ablation

You are taking special rhythm medicines and are prescribed another prescription medicine.

Make A Plan With Your MD



Go to the ER if:

You are having signs of stroke, especially if not on blood thinners

You are having emergency symptoms:
severe shortness of breath
severe chest pain
worst headache of your life
profuse bleeding

Make A Plan With Your MD



Ask your doctor about:

The pros and cons of other blood thinners

Left atrial occlusion devices

New ablation techniques

pacemakers and AV node ablation

Figure out your stroke risk

	Condition	Points
С	Congestive heart failure (or LV dysfunction)	I
Н	Hypertension BP>140/90 or treated hypertension on medication ⊕	I
A ₂	Age ≥ 75 years	2
D	Diabetes Mellitus	Ι
S ₂	Prior Stroke or TIA or Thromboembolism	2
V	Vascular disease (e.g. MI, PVD, Aortic plaque)	Ι
Α	Age 65-74 years	I
Sc	Sex category (female gender)	I

>2, blood thinner probably needed

What Can I Do To Live Healthy With Afib?

1. Weight

30 minutes at a time, five times a week



Reduce alcohol, reduce sodium



3. Sleep

Exclude sleep apnea!



4. Education

Know your heart rate and your BP!



Weight and Afib, What's the Big Deal?





Increases chance of diabetes

Increases chance of high blood pressure

Increases chance of sleep apnea

Height in Feet and Inches

Weight and Afib, What's the Big Deal?

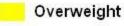
Weight in Pounds

	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
4'	30.5	33.6	36.6	39.7	42.7	45.8	48.8	51.9	54.9	58.0	61.0	64.1	67.1	70.2	73.2	76.3
4'2"	28.1	30.9	33.7	36.6	39.4	42.2	45.0	47.8	50.6	53.4	56.2	59.1	61.9	64.7	67.5	70.3
4' 4"	26.0	28.6	31.2	33.8	36.4	39.0	41.6	44.2	46.8	49.4	52.0	54.6	57.2	59.8	62.4	65.0
4'6"	24.1	26.5	28.9	31.3	33.8	36.2	38.6	41.0	43.4	45.8	48.2	50.6	53.0	55.4	57.9	60.3
4'8"	22.4	24.7	26.9	29.1	31.4	33.6	35.9	38.1	40.4	42.6	44.8	47.1	49.3	51.6	53.8	56.0
4' 10"	20.9	23.0	25.1	27.2	29.3	31.3	33.4	35.5	37.6	39.7	41.8	43.9	46.0	48.1	50.2	52.2
5'	19.5	21.5	23.4	25.4	27.3	29.3	31.2	33.2	35.2	37.1	39.1	41.0	43.0	44.9	46.9	48.8
5'2"			21.9		the second second		5000 No. 100									
5'4"	17.2	18.9	20.6	22.3	24.0	25.7	27.5	29.2	30.9	32.6	34.3	36.0	37.8	39.5	41.2	42.9
5'6"	16.1	17.8	19.4	21.0	22.6	24.2	25.8	27.4	29.0	30.7	32.3	33.9	35.5	37.1	38.7	40.3
5'8"	15.2	16.7	18.2	19.8	21.3	22.8	24.3	25.8	27.4	28.9	30.4	31.9	33.4	35.0	36.5	38.0
5' 10"	14.3	15.8	17.2	18.7	20.1	21.5	23.0	24.4	25.8	27.3	28.7	30.1	31.6	33.0	34.4	35.9
6'			16.3							Control of the Control			Developed the Control			
6'2"	12.8	14.1	15.4	16.7	18.0	19.3	20.5	21.8	23.1	24.4	25.7	27.0	28.2	29.5	30.8	32.1
6'4"	12.2	13.4	14.6	15.8	17.0	18.3	19.5	20.7	21.9	23.1	24.3	25.6	26.8	28.0	29.2	30.4
6'6"	11.6	12.7	13.9	15.0	16.2	17.3	18.5	19.6	20.8	22.0	23.1	24.3	25.4	26.6	27.7	28.9
6'8"	11.0	12.1	13.2	14.3	15.4	16.5	17.6	18.7	19.8	20.9	22.0	23.1	24.2	25.3	26.4	27.5
6'10"	10.5	11.5	12.5	13.6	14.6	15.7	16.7	17.8	18.8	19.9	20.9	22.0	23.0	24.0	25.1	26.1
7'	10.0	11.0	12.0	13.0	13.9	14.9	15.9	16.9	17.9	18.9	19.9	20.9	21.9	22,9	23.9	24.9

http://www.freebmicalculator.net

Underweight





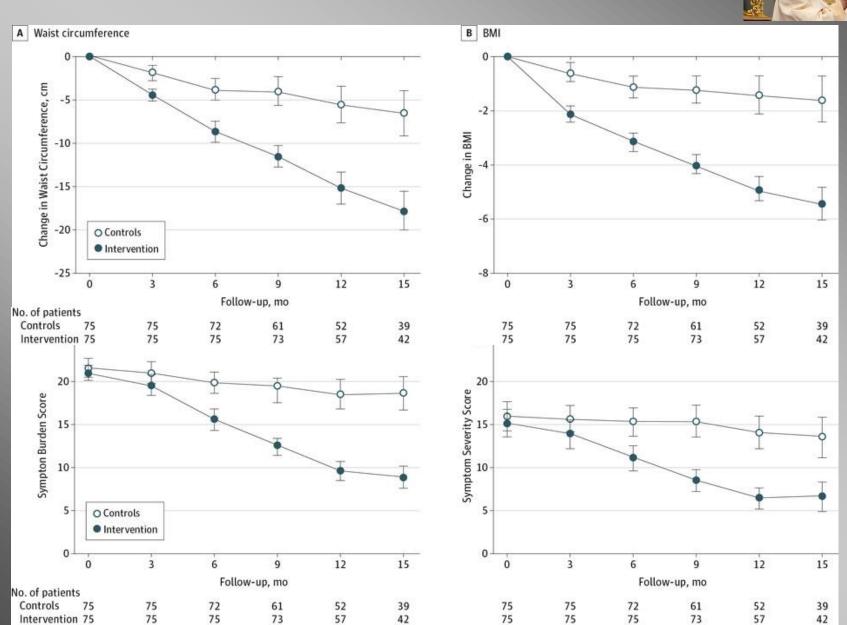


Obesity

BMI Chart

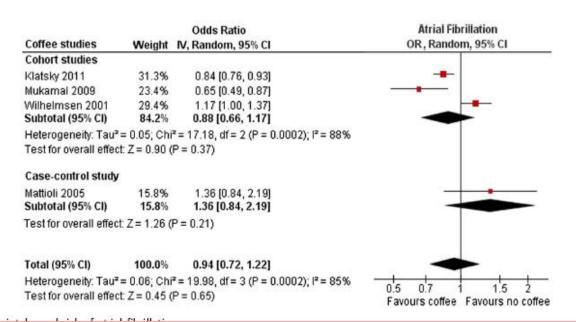
BMI < 18.50	Underweight
BMI < 16.00	Severe Thinness
BMI 16.00 - 16.99	Moderate Thinness
BMI 17.00 - 18.49	Mild Thinness
BMI 18.50 - 24.99	Normal Weight
BMI 18.50 - 22.99	Lower Range
BMI 23.00 - 24.99	Upper Range
BMI 25.00 - 29.99	Overweight / Pre-Obese
BMI 25.00 - 27.49	Lower Range
BMI 27.50 - 29.99	Upper Range
BMI ≥ 30	Obese
BMI 30.00 - 34.99	Obese Class I
BMI 35.00 - 39.99	Obese Class II
BMI ≥ 40.00	Obese Class III

Losing Weight Helps Afib





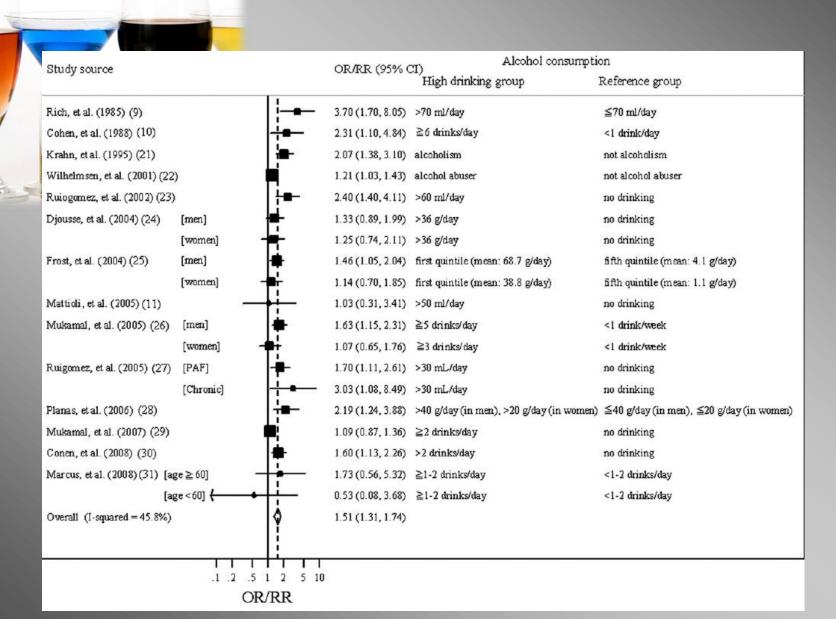
Diet and Afib



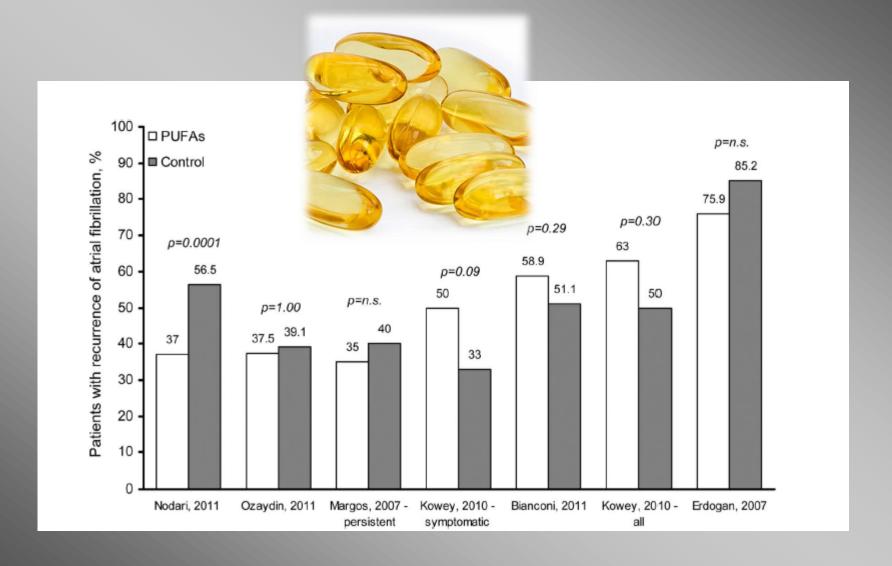
Caffeine does not increase the risk of atrial fibrillation: a systematic review and meta-analysis of observational studies

Daniel Caldeira, ^{1,2} Cristina Martins, ² Luís Brandão Alves, ² Hélder Pereira, ² Joaquim J Ferreira, ^{1,3} João Costa ^{1,4,5}

Diet and Afib

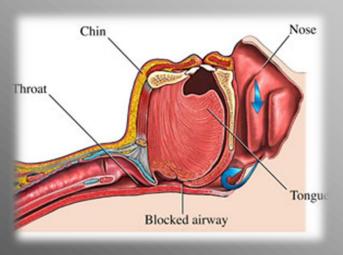


Diet and Afib



Sleep, Snoring and Afib





	Arrhythmlas Included in Each Analysis	Odds Ratio (95% CI)
Primary overall analysis	62	17.5 (5.3-58.4)
Subanalysis by armythmia type		
PAF	15	17.9 (2.2-144.2)
NSVI	47	17.4 (4.0-75.7)
Subanalysis by sleep stage		
NREM	42	14.2 (4.2-48.0)
REM	20	*
Subanalysis by respiratory disturbance subtype		
No respiratory disturbance	18	Reference
Respiratory disturbance without hypoxia (nadir SpO ₂ ≤92%) or arousal	14	24.1 (5.4-106.6)
Respiratory disturbance with hypoxia	20	13.6 (3.7-50.6)
Respiratory disturbance with arousal	10	21.8 (4.5-106.3)

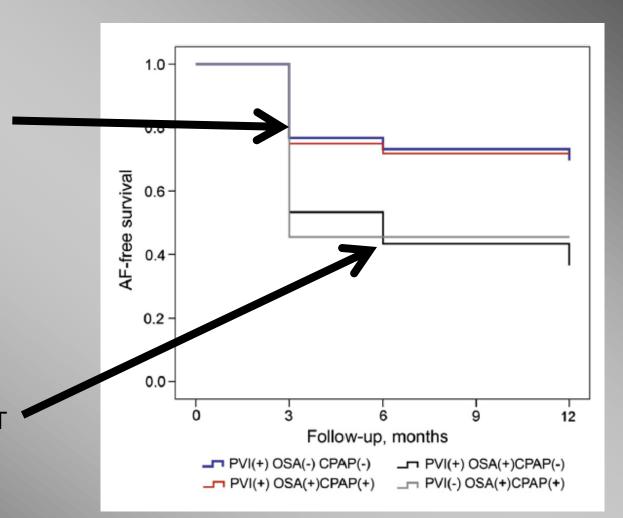
^{*}Unable to be calculated.

CI = confidence interval; other abbreviations as in Tables 1 and 2.

Sleep, Snoring and Afib

People who didn't have sleep apnea and got an Afib ablation

People who DID have sleep apnea and got an Afib ablation, but DIDN'T use cpap



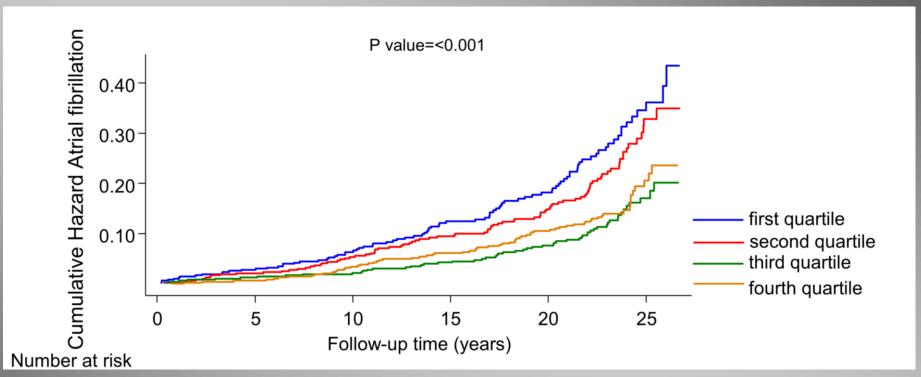
Exercise and Atrial Fibrillation



Study	Athletic population	Age (mean ±SD, years)	Males (%)	AF in athletes (%)	AFI in athletes (%)	Relative risk (95% CI) for athletes
Pelliccia et al. 19	Elite athletes (n = 1777)	24 ± 6	71	0.2 (all male, i.e. 0.3 in males)	0	_
Molina et al.7	Non-elite marathon runners ($n = 183$)	39 ± 9	100	4.9	0	8.8 (1.3-61.3)
	Controls (n = 290)	50 ± 13	100	0.7	0	
Wilhelm et al.23	Non-elite runners (n = 122)	42 ± 7	50	3.3 all male (i.e. 6.6 in males)	0	_
Karjalainen et al.12	Veteran elite orienteers (n = 262)	47 ± 5	100	5.3	0	5.5 (1.3-24.4)
	Controls (n = 373)	49 ± 5	100	0.9	0	
Baldesberger et al.6	Veteran elite cyclists ($n = 62$)	67 ± 7	100	3.2	6.5	14.4 (0.8-261.1)
	Golfers $(n=62)$	66 ± 6	100	0	0	
Grimsmo et al. ²⁴	Veteran cross-country skiers (n = 78)	69 ± 10	100	16.7	0	-

Exercise and Atrial Fibrillation





People who were more active had a lower risk of atrial fibrillation!

(Just don't over-do it.)

Educating Yourself



After 2-3 minutes of quiet sitting: 50bpm-100bpm

With exercise: <150bpm

Educating Yourself

https://www.hrsonline.org/

http://www.emoryhealthcare.org/arr hythmia/ask-experts-videosarrhythmia.html



Wrap-Up



There is more than one type of atrial fibrillation

You can help manage Afib by attention to weight, exercise, sleep, and diet

Get a plan with your doctor

You can have a good quality of life with Afib, but keeping tabs on the pulse and your symptoms is key