

CHA2DS2VASc - what does this mean to me?

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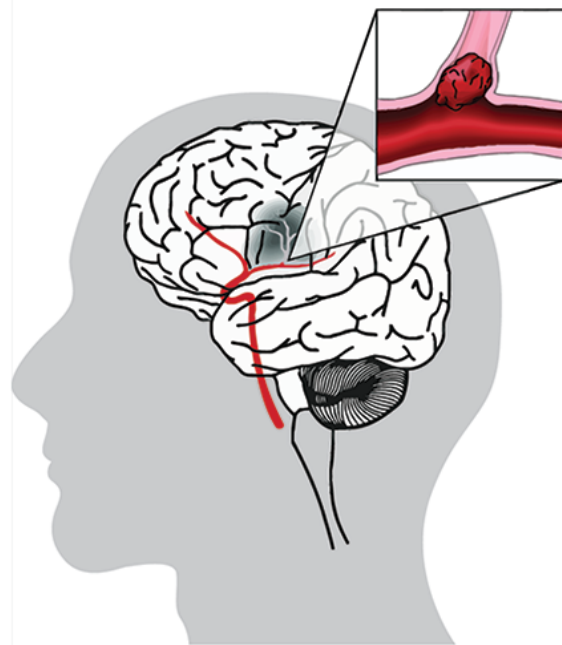
2.30 Hall 8b

STROKE



WHAT IS A STROKE?

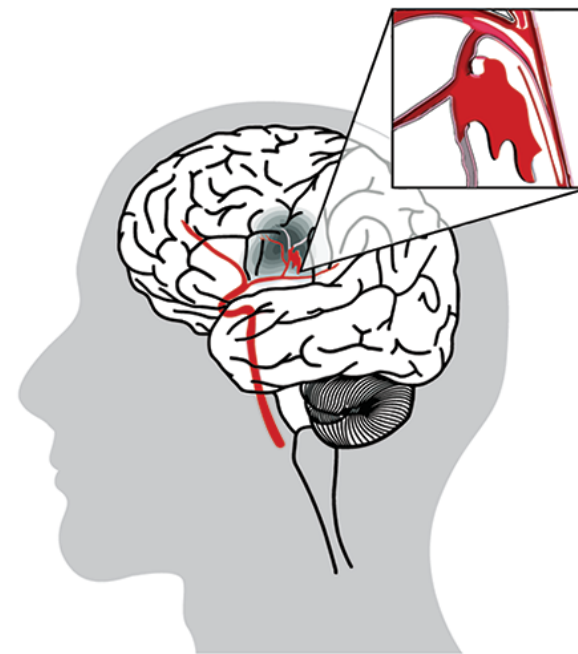
Block



Ischaemic stroke

(embolic and thrombotic)

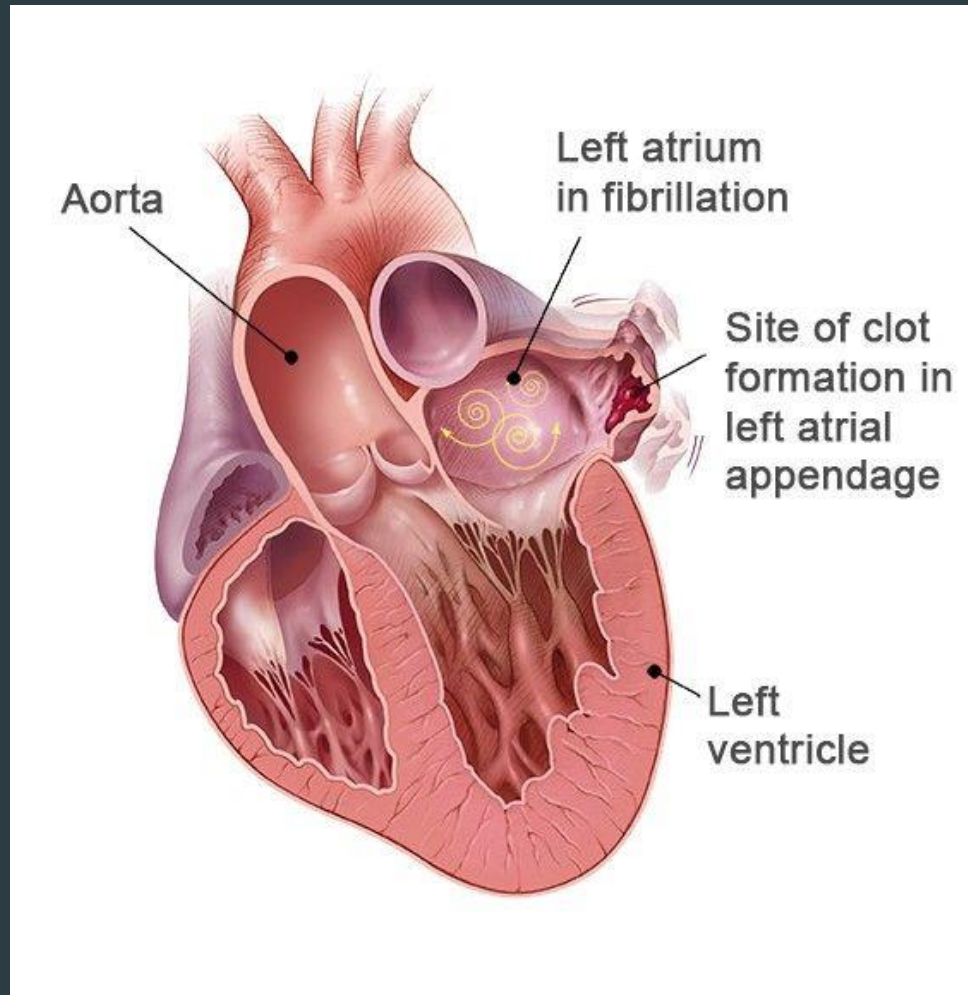
Bleed



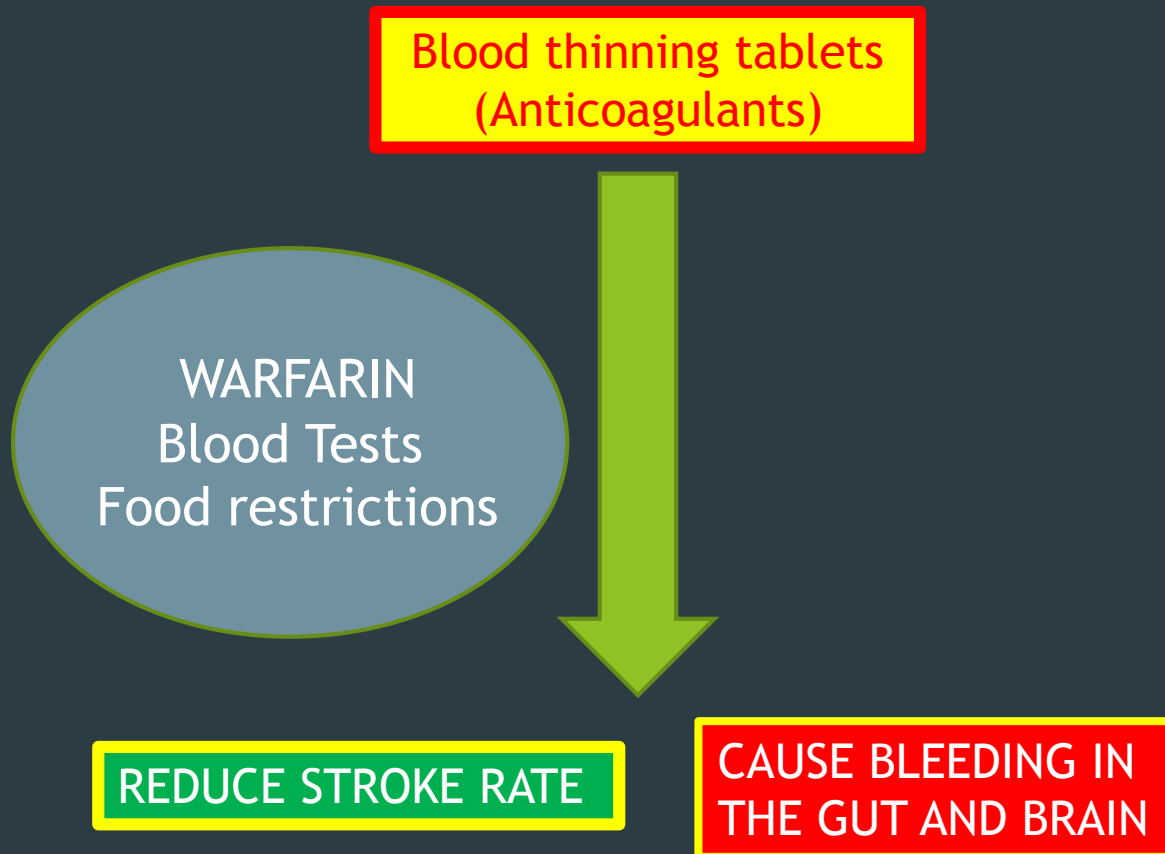
Haemorrhagic stroke

(subarachnoid and intracerebral)

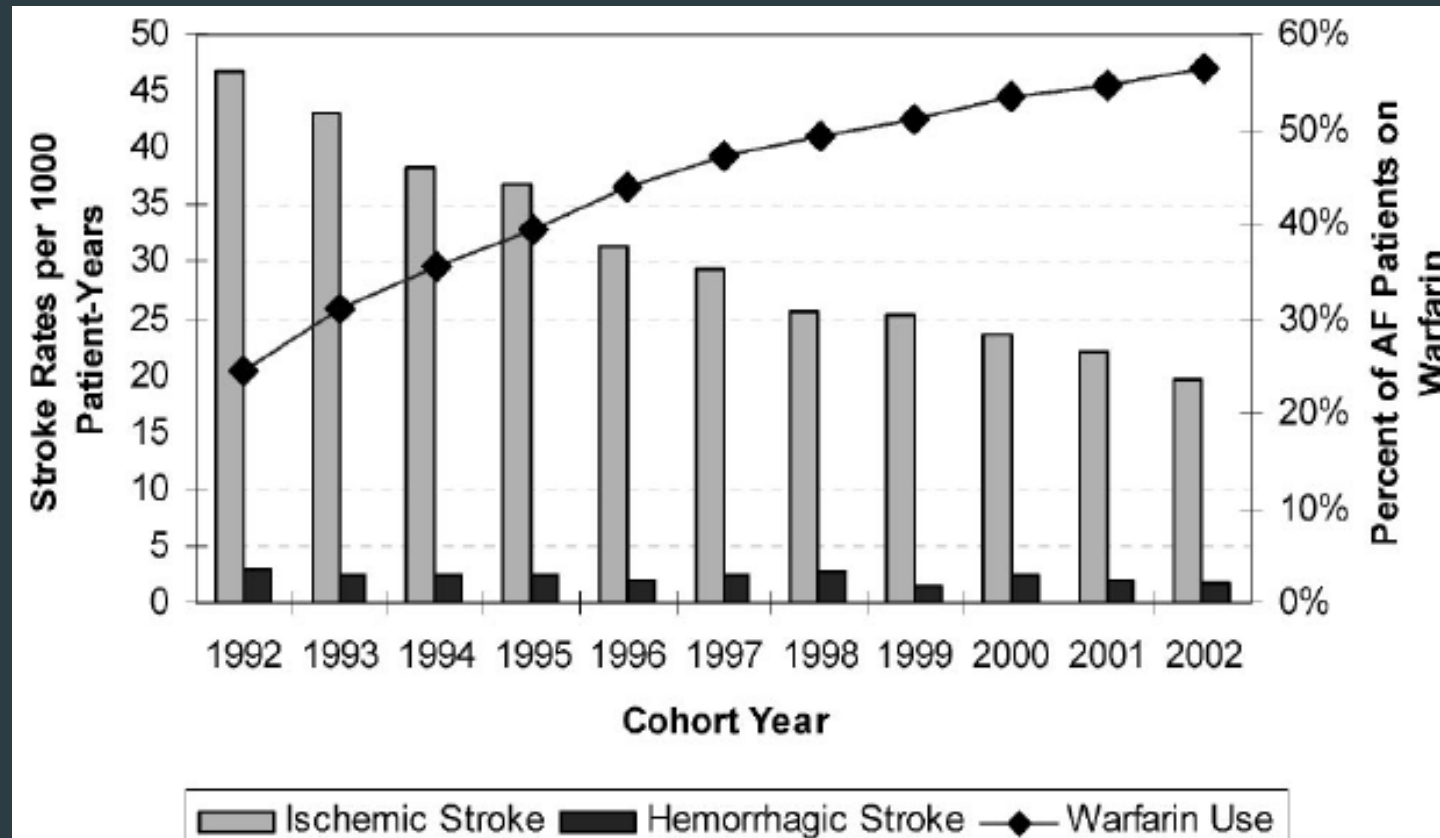
STROKE CAUSED BY ATRIAL FIBRILLATION



HOW DO WE STOP STROKE CAUSED BY ATRIAL FIBRILLATION?



Effects of anticoagulation rates on stroke rates



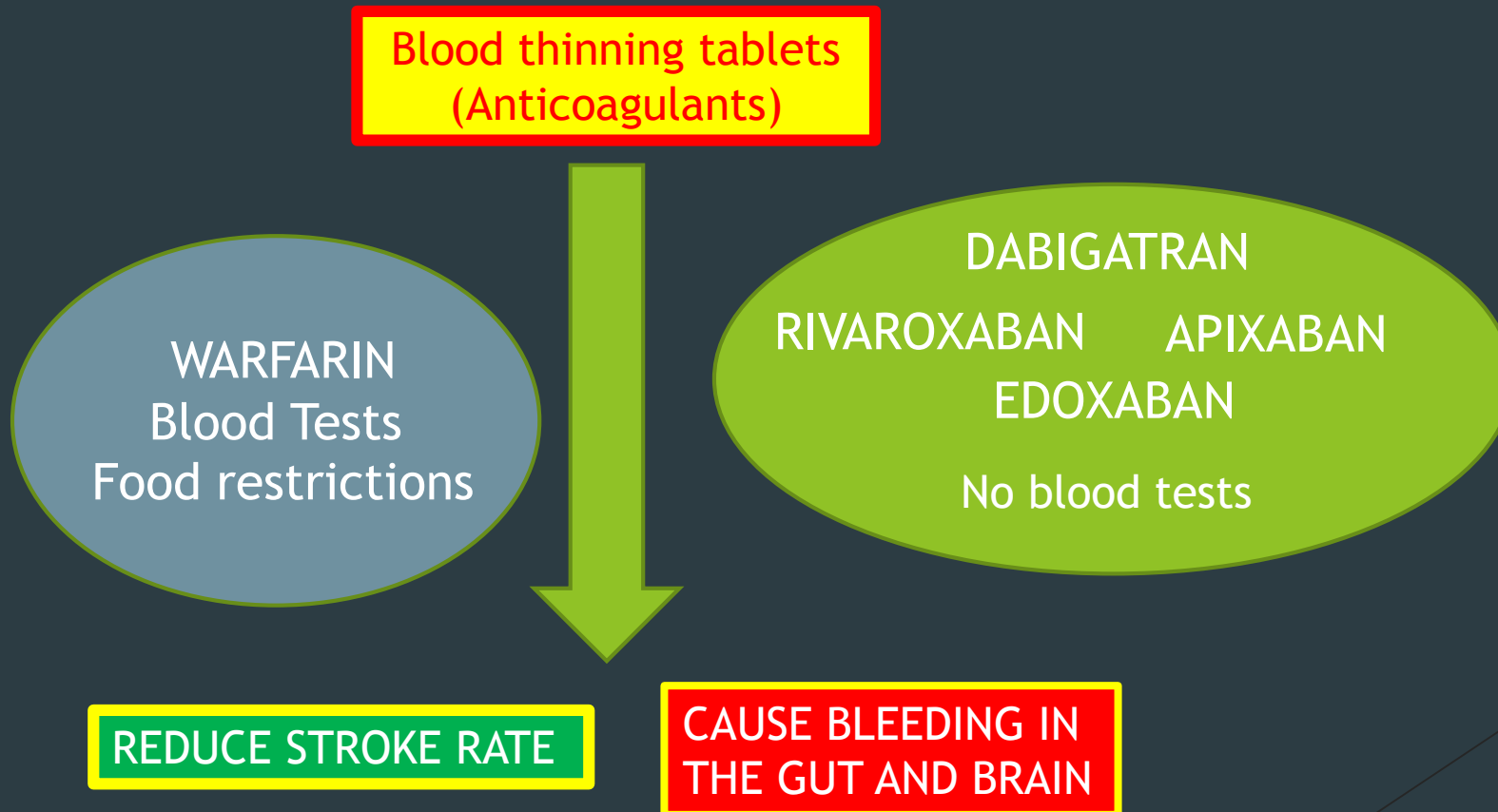
Thromboembolic Risks and Anticoagulation

Congestive heart failure
Hypertension >160systolic
Age >75
Diabetes
Stroke 2

	Thromboembolic risk (95% CI)		Risk reduction
	On OA	Off OA	
0	0.25	0.49	50%
1	0.72	1.52	53%
2	1.27	2.50	49%
3	2.20	5.27	58%
4	2.35	6.02	61%
≥	4.60	6.88	33%

Go et al, JAMA 2003

HOW DO WE STOP STROKE CAUSED BY ATRIAL FIBRILLATION?



Studies proving anticoagulation is best treatment for preventing strokes

- | | | |
|---------------|-----------|-----------|
| ▶ Dabigatran | RE-LY | CHADS=2.1 |
| ▶ Rivaroxaban | ROCKET-AF | CHADS=3.4 |
| ▶ Apixaban | ARISTOTLE | CHADS=2.1 |
| ▶ Edoxaban | ENGAGE-AF | CHADS=2.8 |

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CHA2DS2VASC

- ▶ **C**ongestive Heart Failure
- ▶ **H**ypertension
- ▶ **A**ge more than 70 gets **2** points
- ▶ **D**iabetes
- ▶ **S**troke/TIA **2**
- ▶ **V**ascular Disease
- ▶ **A**ge from 65-74
- ▶ **S**ex **C**ategory - If female

CHADSVASC AND STROKE RISK

Annual Stroke Risk^[10]

CHA ₂ DS ₂ -VASc Score	Stroke Risk %	95% CI
0	0	-
1	1.3	-
2	2.2	-
3	3.2	-
4	4.0	-
5	6.7	-
6	9.8	-
7	9.6	-
8	12.5	-
9	15.2	-

CHA₂DS₂VASC

Annual Stroke Risk^[10]

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Event	Dabigatran, 110 mg	Dabigatran, 150 mg	Warfarin
Life threatening	1.22	1.45	1.80

Variable	Rivaroxaban	Warfarin	P Value*
Critical bleeding†	0.8 no./100	1.2 no./100	0.007
Fatal bleeding	0.2 patient-yr	0.5 patient-yr	0.003

Outcome	Apixaban Group	Warfarin Group	P Value
GUSTO severe bleeding	0.52%/yr	1.13%/yr	<0.001

What happens if I stop my anti-coagulation tablets

Depends on your CHADSVASC score

The higher your CHADSVASC score, the greater the risk

The longer you stop the greater the risk

OTHER BLOOD THINNING TABLET THAT DON'T STOP STROKES IN ATRIAL FIBRILLATION

ASPIRIN

CLOPIDOGREL

TICAGRELOR

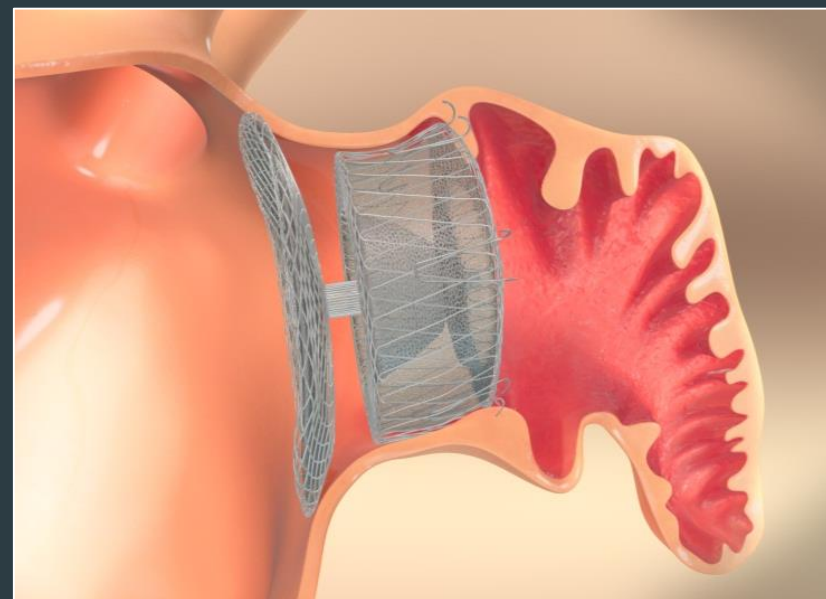
USED TO PROTECT STENTS AND STROKES CAUSED BY OTHER CONDITIONS BUT NOT AF

What if you can't take blood thinning tablets?

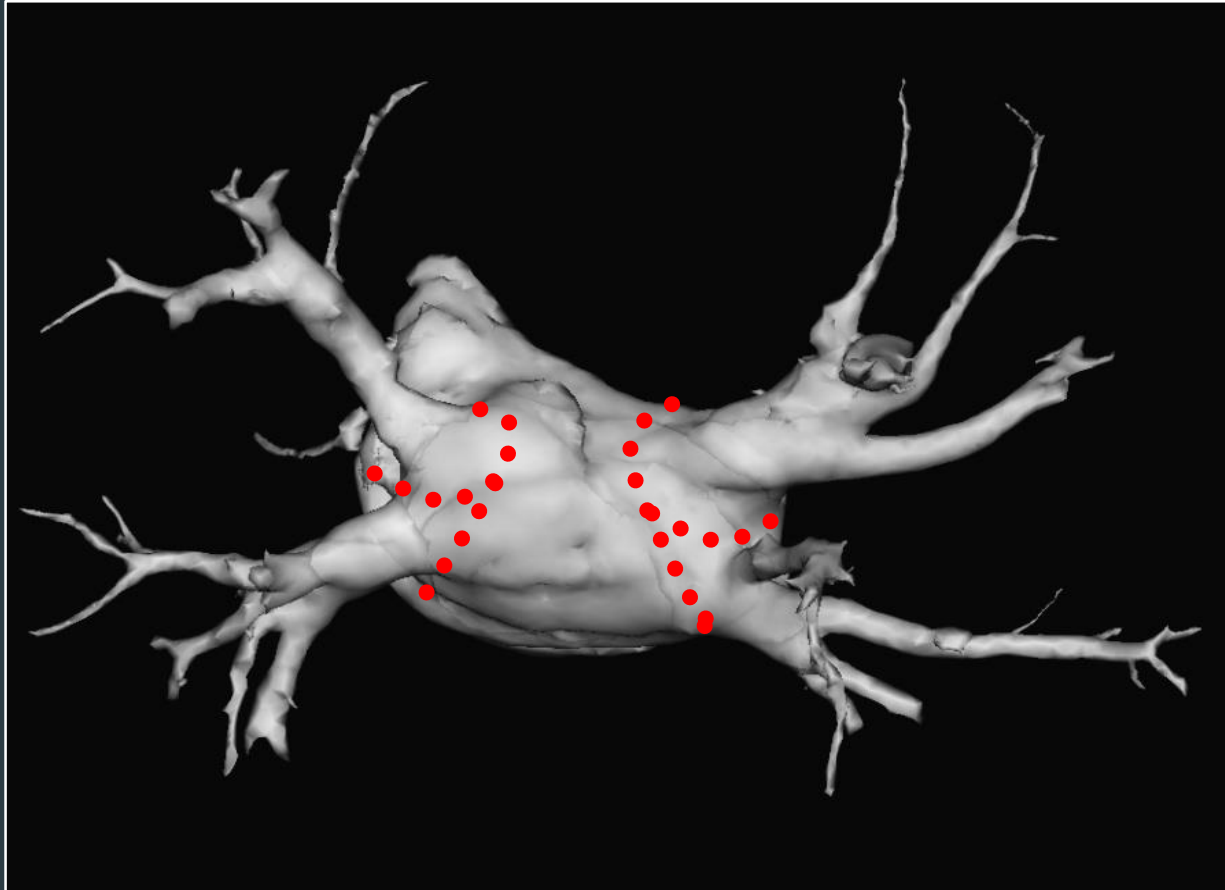
WATCHMAN



AMULET



Does AF ablation prevent strokes?

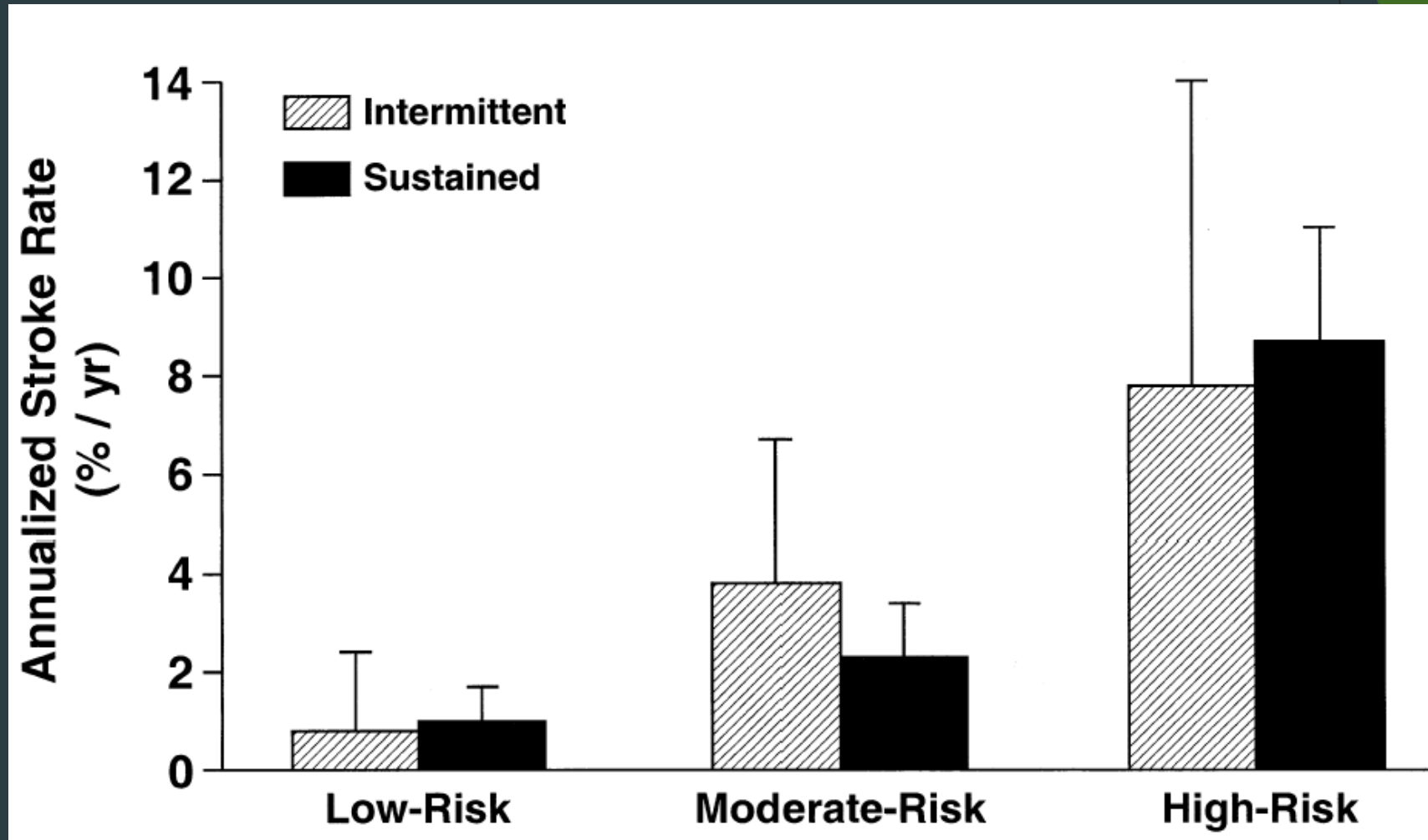


Stroke and Atrial Fibrillation

- ▶ The most important aspect of managing AF is ensuring stroke risk is managed properly.
- ▶ It may need to be reviewed if new conditions arise or problems occur



Stroke rate were similar in paroxysmal and permanent AF treated with aspirin alone



NICE Guidelines
6/2006

