

ECAS-WSA Joint Session 2 In Memory of Professor Massimo Santini

Device-Detected AF: OAC, Nothing, or Call a Friend... More Information??

Carlos A Morillo, MD, FRCPC, FACC, FHRS, FESC

**Professor Department of Cardiac Sciences, Libin Cardiovascular Institute
Division of Cardiology**

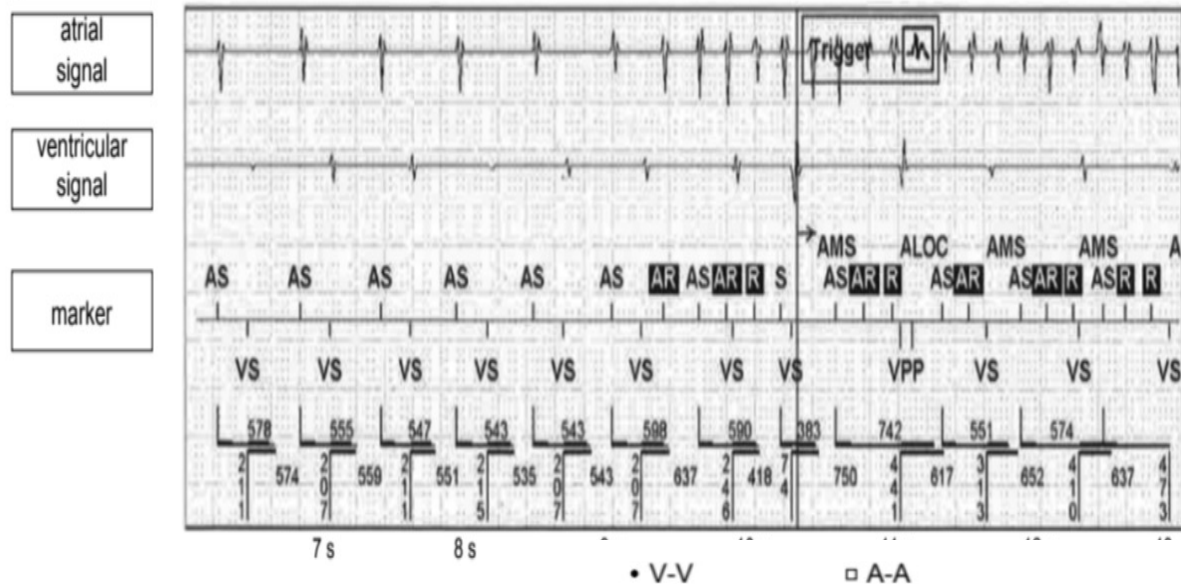
Cumming School of Medicine, Calgary, Alberta

**Senior Visiting Scientist, Molecular & Novel Arrhythmia Therapeutics
Centro Nacional de Investigaciones Cardiovasculares (CNIC) Carlos III
Madrid, Spain**

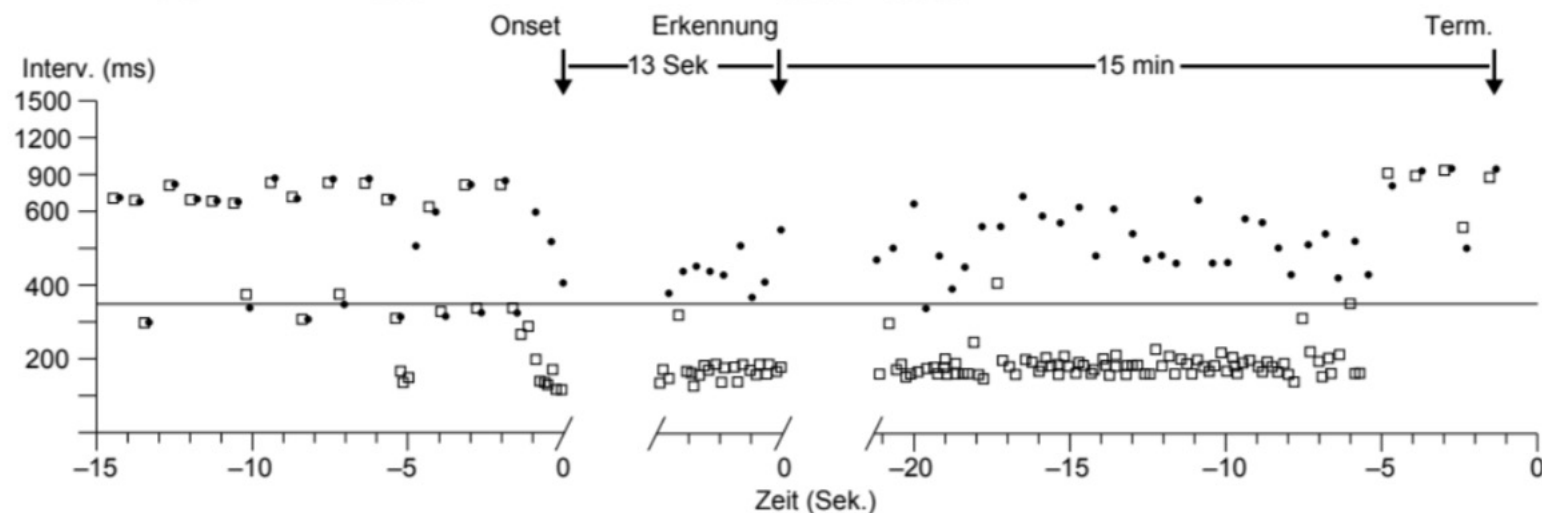
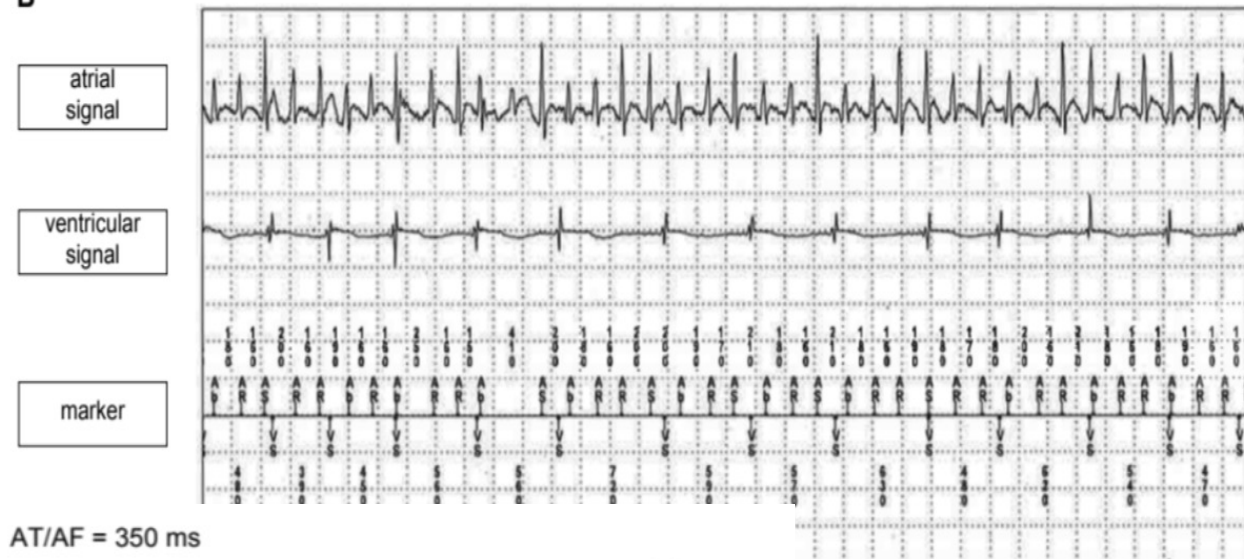


DDAF

A



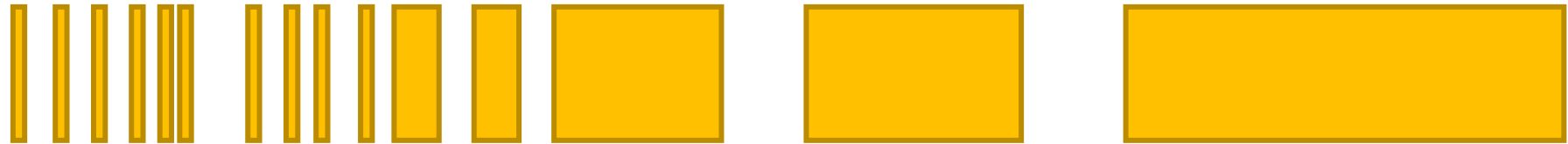
B



BACKGROUND

- Atrial Fibrillation is a **CHRONIC** and **PROGRESSIVE** disease

AF Events



Paroxysmal AF

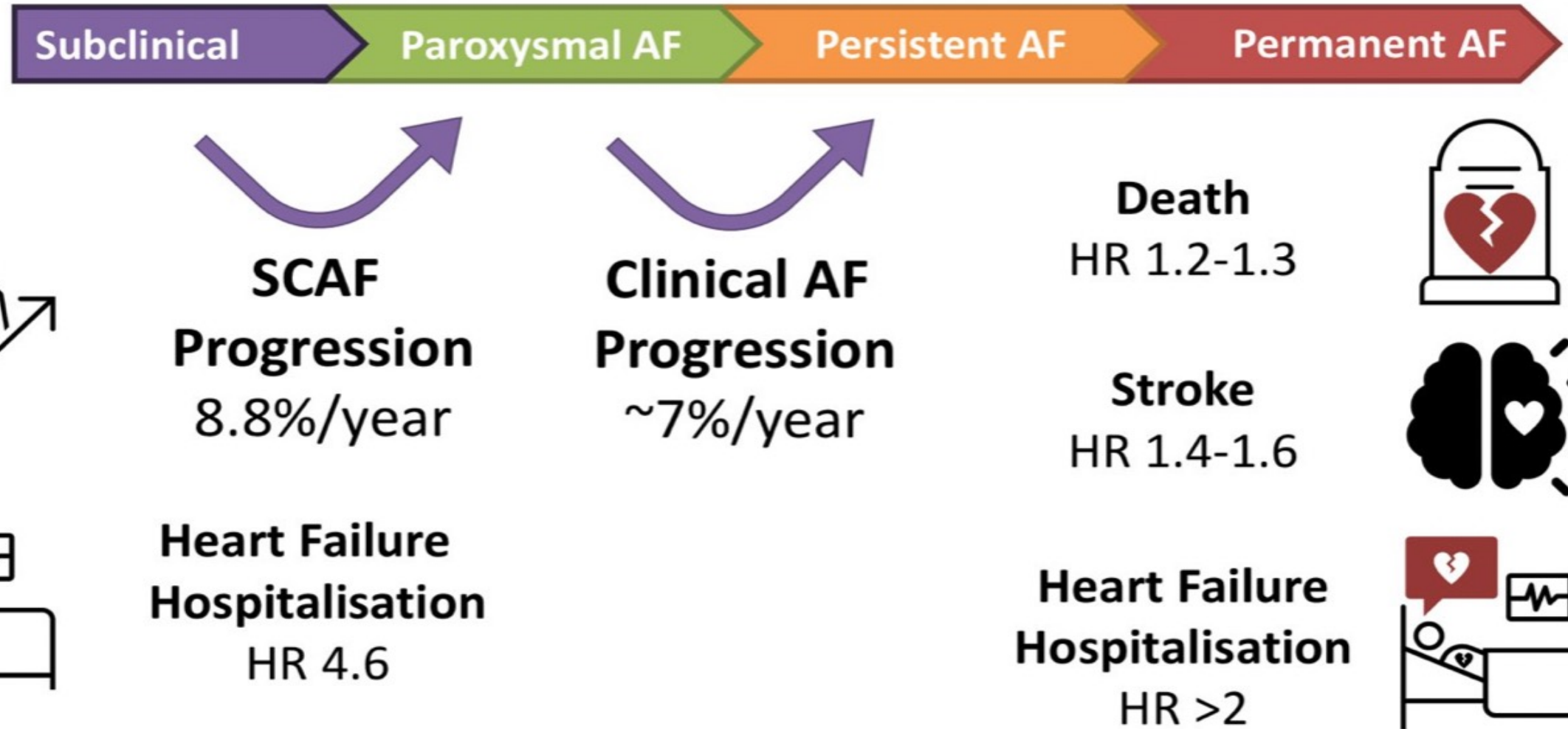
Persistent AF

Permanent AF

Time

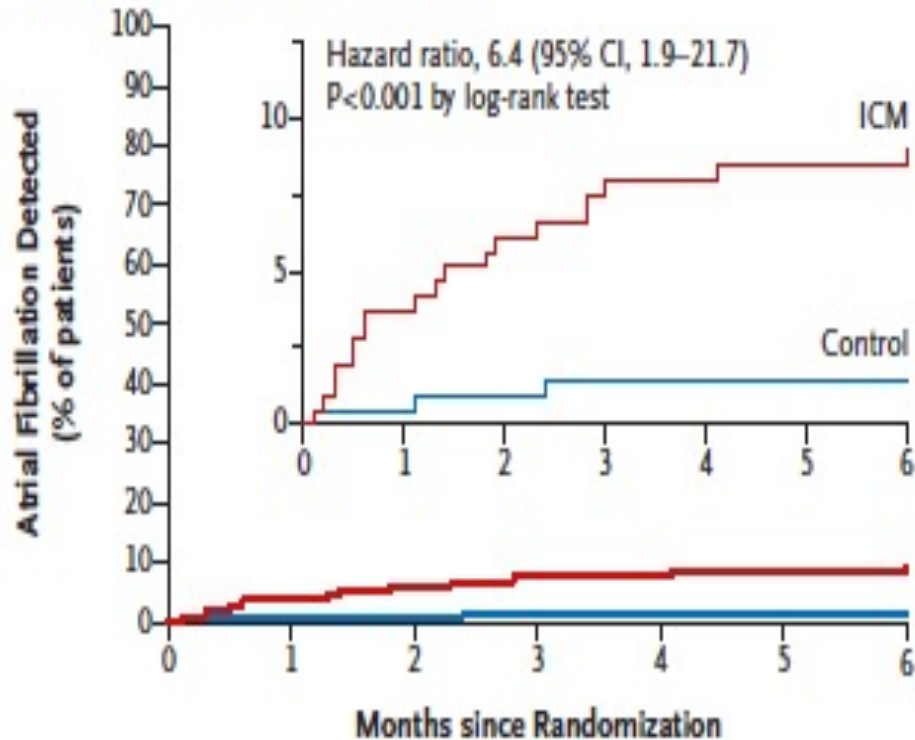


AF is a Chronic Progressive Disease



Detection Rates: Primary & Secondary Endpoints

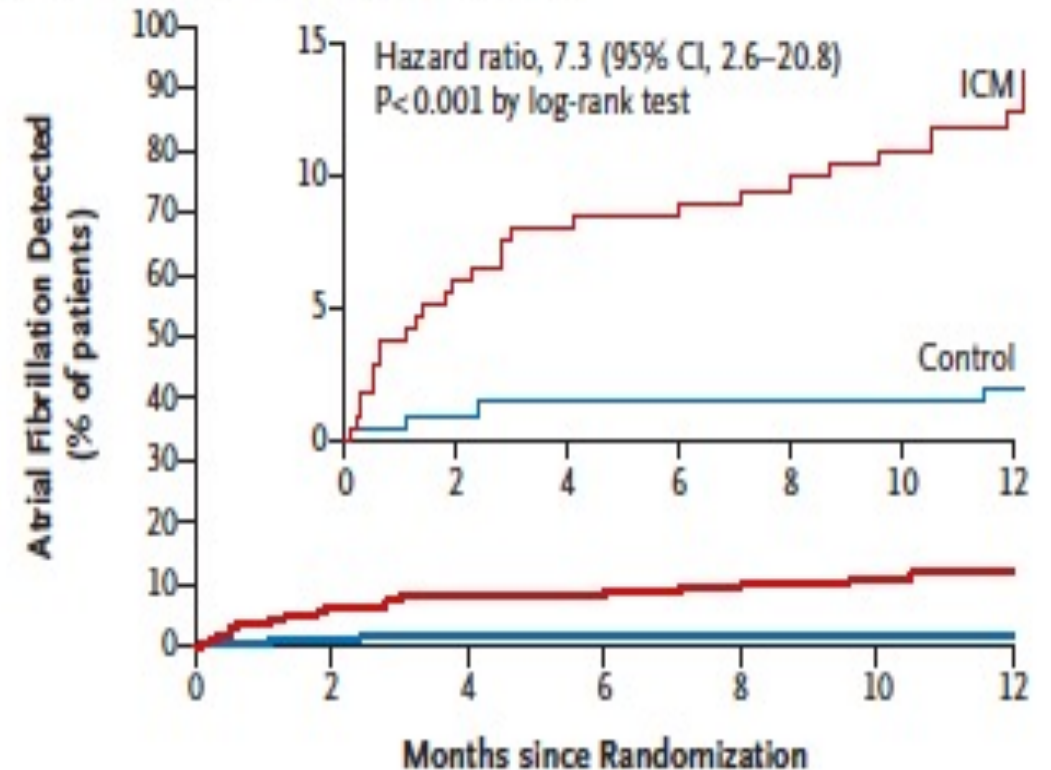
A Detection of Atrial Fibrillation by 6 Months



No. at Risk

Control	220	214	200	198	197	197	194
ICM	221	205	198	195	194	193	191

B Detection of Atrial Fibrillation by 12 Months



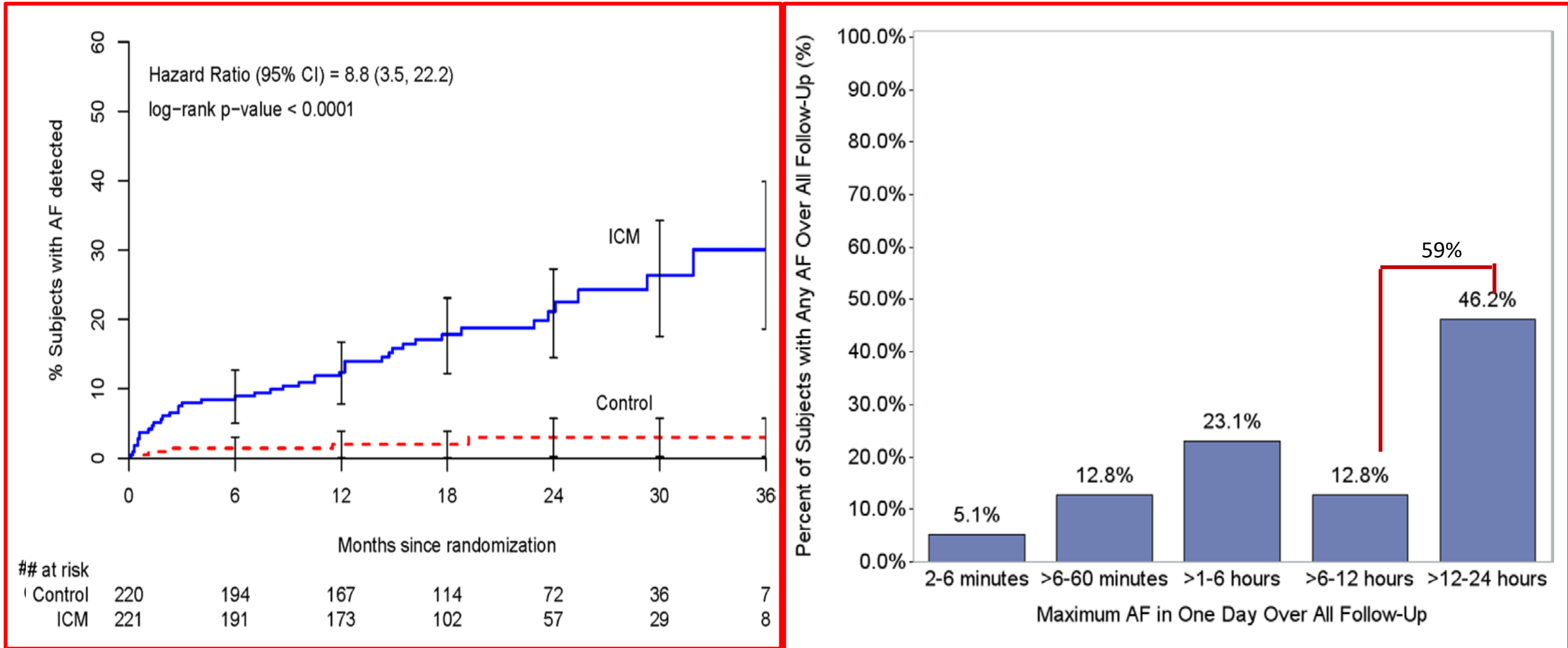
No. at Risk

Control	220	200	197	194	184	184	167
ICM	221	198	194	191	186	182	173

Uncovering Atrial Fibrillation Beyond Short-Term Monitoring in Cryptogenic Stroke Patients

Three-Year Results From the Cryptogenic Stroke and Underlying Atrial Fibrillation Trial

Johannes Brachmann, MD; Carlos A. Morillo, MD; Tommaso Sanna, MD;
 Vincenzo Di Lazzaro, MD; Hans-Christoph Diener, MD, PhD;
 Richard A. Bernstein, MD, PhD; Marilyn Rymer, MD; Paul D. Ziegler, MS;
 Shufeng Liu, MS; Rod S. Passman, MD, MSCE



Predictors for atrial fibrillation detection after cryptogenic stroke

Results from CRYSTAL AF

Thijs VN, Brachmann J, Morillo CA, et al.



Table 3 Multivariable Cox model results for atrial fibrillation detected by 12 or 36 months

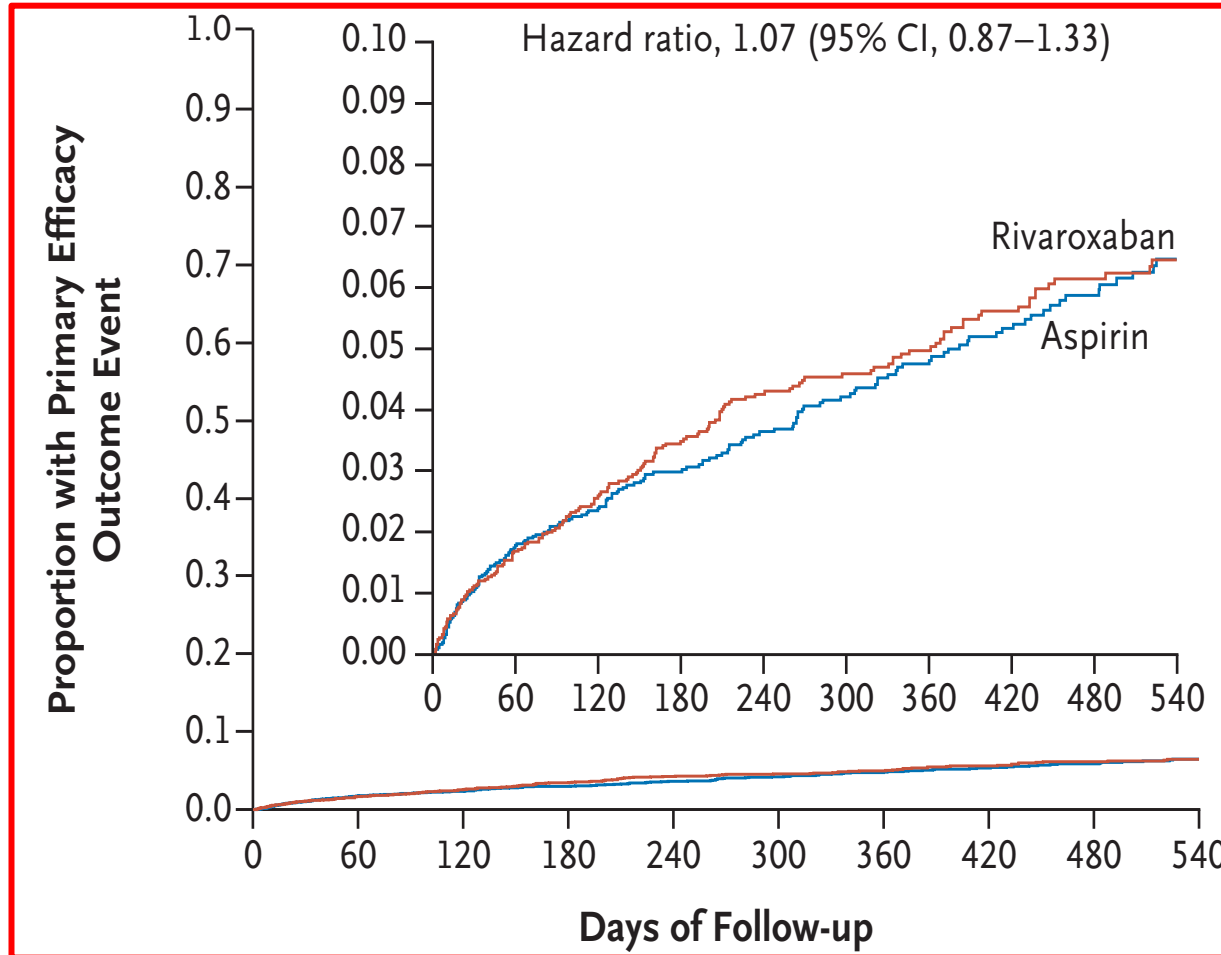
Variable	12 mo		36 mo	
	HR (95% CI)	p Value	HR (95% CI)	p Value
PAC (max in 24 h) (n = 192)				
First quartile (0)	1.00 (reference)	0.0094	1.00 (reference)	0.0029
Second quartile (>0-15.5)	0.57 (0.10-3.09)		0.39 (0.08-1.95)	
Third quartile (>15.5-123.0)	1.61 (0.45-5.71)		1.76 (0.64-4.86)	
Fourth quartile (>123.0)	3.94 (1.30-11.97)		3.47 (1.38-8.70)	
Left atrial diameter (n = 115)				
First quartile (≤3.45 cm)	1.00 (reference)	0.75	1.00 (reference)	0.44
Second quartile (>3.45-3.90 cm)	0.94 (0.19-4.66)		2.10 (0.54-8.13)	
Third quartile (>3.90-4.40 cm)	1.65 (0.41-6.61)		2.89 (0.81-10.39)	
Fourth quartile (>4.40 cm)	1.79 (0.40-7.99)		2.41 (0.58-10.10)	

ILR-detected subclinical AF in patients with cryptogenic stroke or TIA

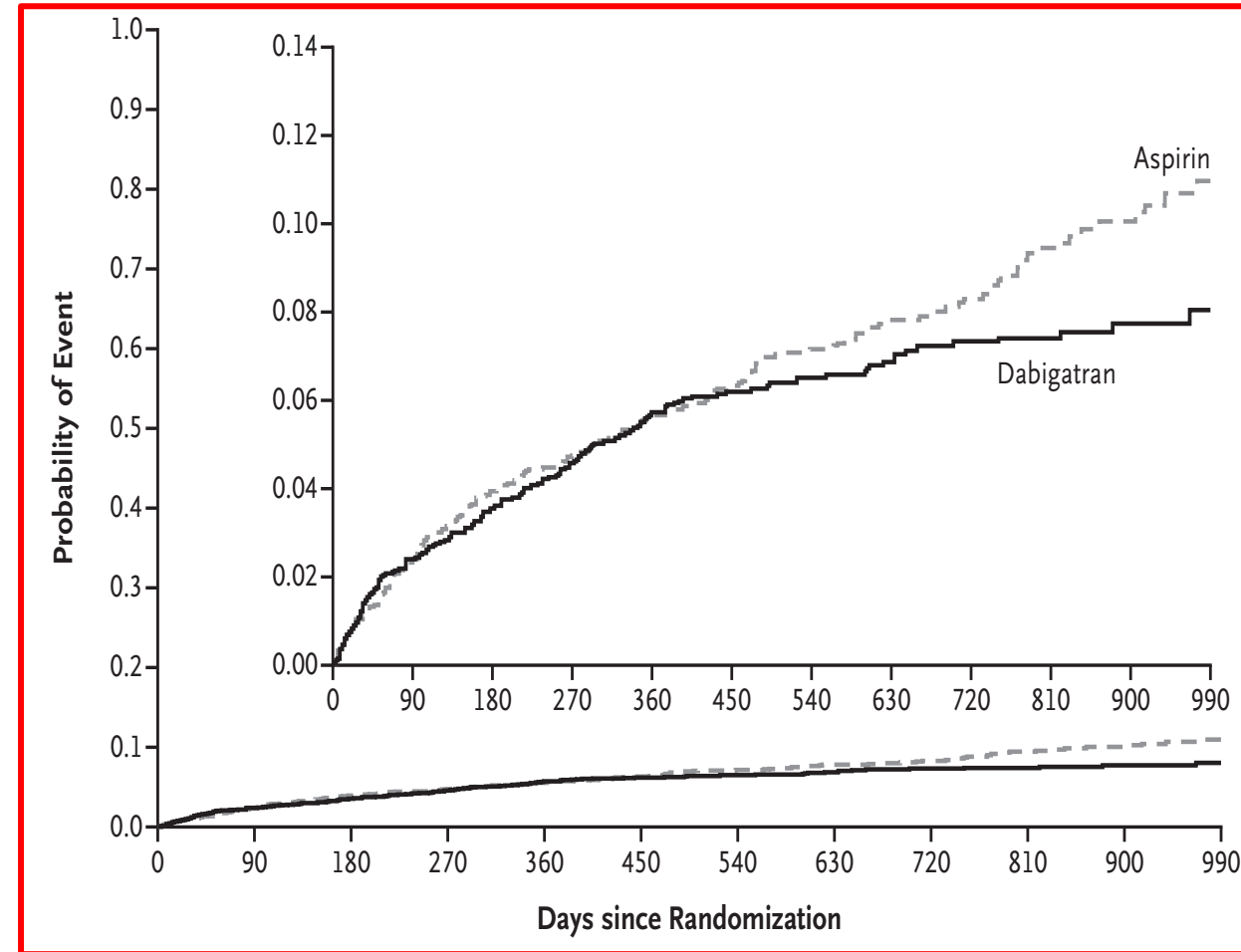
Europace (2019) 21, 1459–1467.

Study	Number of patients included	Mean age (years)	% male	Mean CHA ₂ DS ₂ -VASc score	Duration of follow-up	Definition of AHRE	Patients with AHRE	Time to first AHRE episode
Dion <i>et al.</i> (2010)	24	49 ± 13.6	62.5%	NR	Mean 14.5 months	Ventricular rate >165 b.p.m. for >32 complexes	1/24 (4.2%) with AF <30 s	NR
Cotter <i>et al.</i> (2013)	51	51.5 ± 13.9	54.9%	Median 3 (2–4)	Mean 229 ± 112 days in patients without AHRE	AF >2 min	13/51 (25.5%)	Median 48 days (0–154)
Ritter <i>et al.</i> (2013)	60	Median 63 (48.5–72.0)	56.7%	Median 4 (3–5) without AHRE; median 4 (3–5) with AHRE	Median 397 days (337–504) without AHRE; median 312 days (242–397) with AHRE	AF >2 min	10/60 (16.7%)	Median 64 days (1–556)
Etgen <i>et al.</i> (2013)	22	60.0 without AF; 65.8 with AF	43.8% without AF; 66.7% with AF	NR	12 months	AF ≥6 min	6/22 (27.3%)	Mean 152.8
Rojo-Martinez <i>et al.</i> (2013)	101	67	46.5%	NR	281 ± 212 days	AF >2 min	34/101 (33.7%)	Median 102 days (26–240)
SURPRISE (2014)	85	54.0 without AF; 66.9 with AF	58.0% without AF; 44.4% with AF	Median 3 without AHRE; median 4 with AHRE	569 ± 310 days	AF >2 min	18/85 (20.7%)	109 ± 48 days
CRYSTAL AF (2014)	441 (208 ICM)	61.5 ± 11.3	63.5%	NR	12 months	AF >2 min	8.9% at 6 months; 12.4% at 12 months	Median 41 days (14–84)
CRYSTAL AF (2016)	48 (24 ICM)?	61.6 ± 11.4	?	NR	36 months	AF >2 min	30%	?
Poli <i>et al.</i> (2016)	74	66.4 ± 12.5	47%	Median 5 (4–6)	12 months	AF >2 min	21/74 (28.4%) at 6 months; 25/74 (33.8%) at 12 months	105 ± 135 days
Israel <i>et al.</i> (2017)	123	65.0 ± 9.4	60.2%	4.5 ± 1.3	12.7 ± 5.5 months	AF ≥2 min	29/123 (23.6%)	Average 3.6 months
Reinke <i>et al.</i> (2018)	105	64.4 ± 12.6	56.2%	Median 4 (3–6)	?	AF >2 min	19/105 (18%)	Median 217 days (72.5–338)
Pedersen <i>et al.</i> (2018)	105	Median 65.4 (27.1–80.8)	45.7%	Median 4 (2–7)	Median 381 days (371–390)	AF ≥2 min	7/105 (6.7%)	Median 21 days (5–146)

DOACs AND ESUS



N Engl J Med. 2018 Jun 7;378(23):2191-2201.



N Engl J Med 2019 May 16;380(20):1906-1917.

Apixaban to Prevent Recurrence After Cryptogenic Stroke in Patients With Atrial Cardiopathy The ARCADIA Randomized Clinical Trial

JAMA

QUESTION Is anticoagulation superior to antiplatelet therapy for prevention of recurrent stroke in patients with cryptogenic stroke and evidence of atrial cardiopathy?

CONCLUSION This randomized trial found that in patients with cryptogenic stroke and evidence of atrial cardiopathy without atrial fibrillation, apixaban did not significantly reduce recurrent stroke risk compared with aspirin.

POPULATION

551 Women
464 Men



Adults ≥ 45 years with cryptogenic stroke and evidence of atrial cardiopathy

Mean age: 68 years

LOCATIONS

185
Sites in the US
and Canada



INTERVENTION

1015 Patients randomized

507

Apixaban

Oral dose of apixaban, 5 mg or 2.5 mg, twice daily + aspirin placebo



508

Aspirin

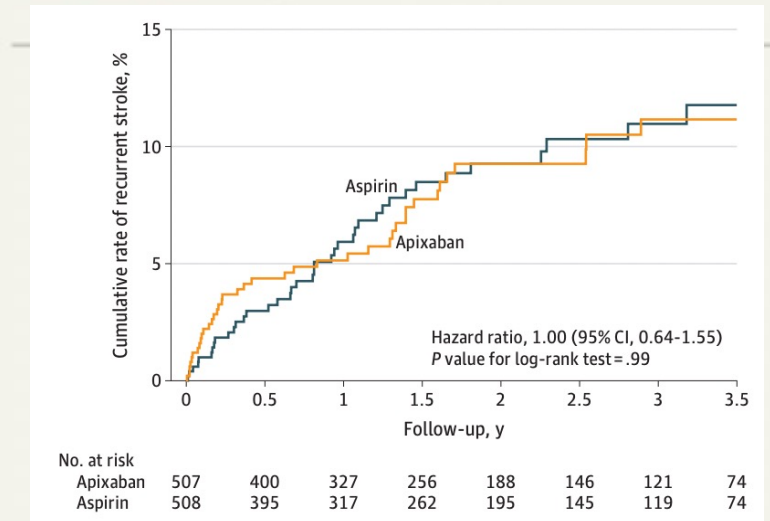
Oral dose of aspirin, 81 mg, once daily + apixaban placebo



PRIMARY OUTCOME

Recurrent stroke of any type

FINDINGS

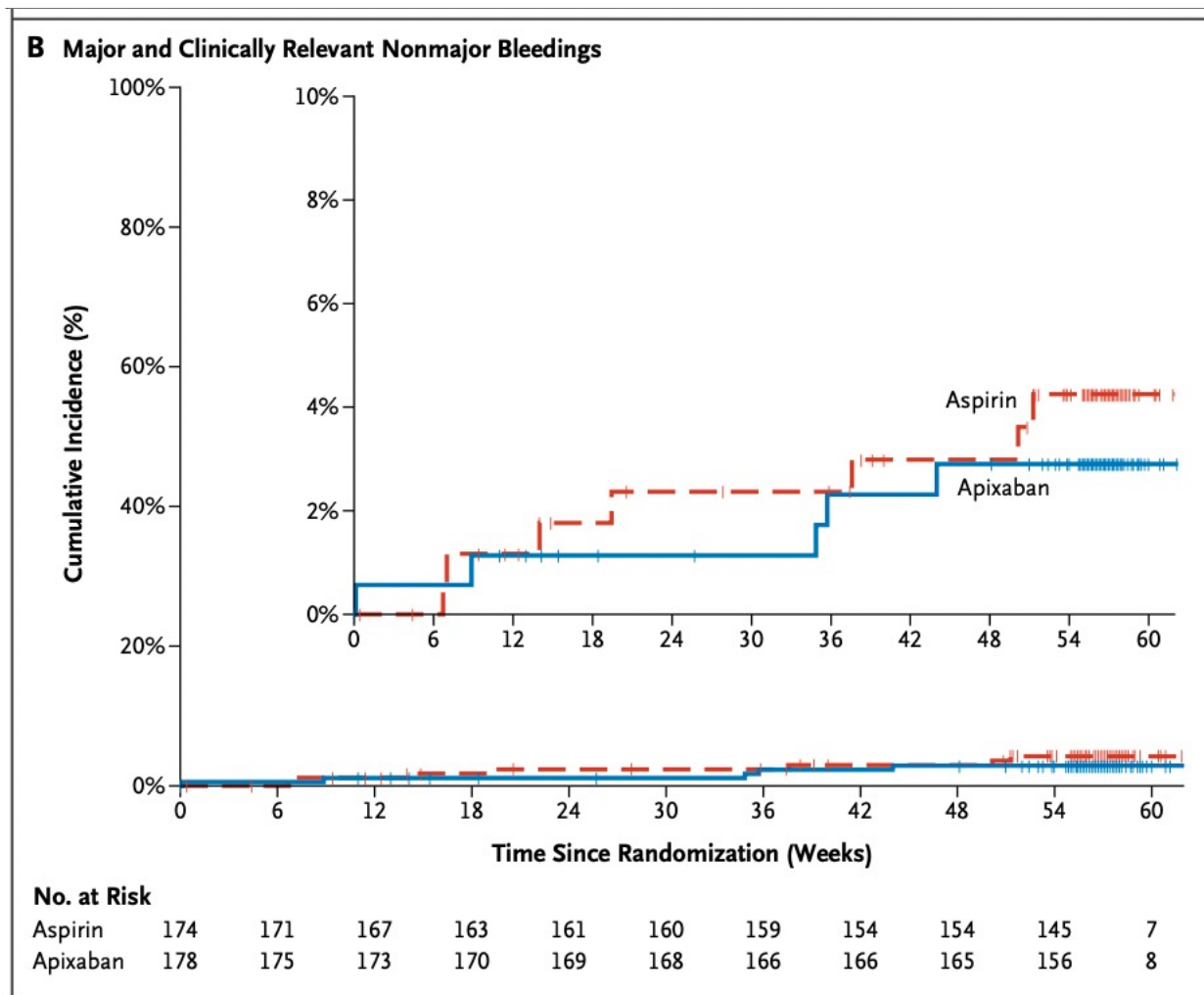
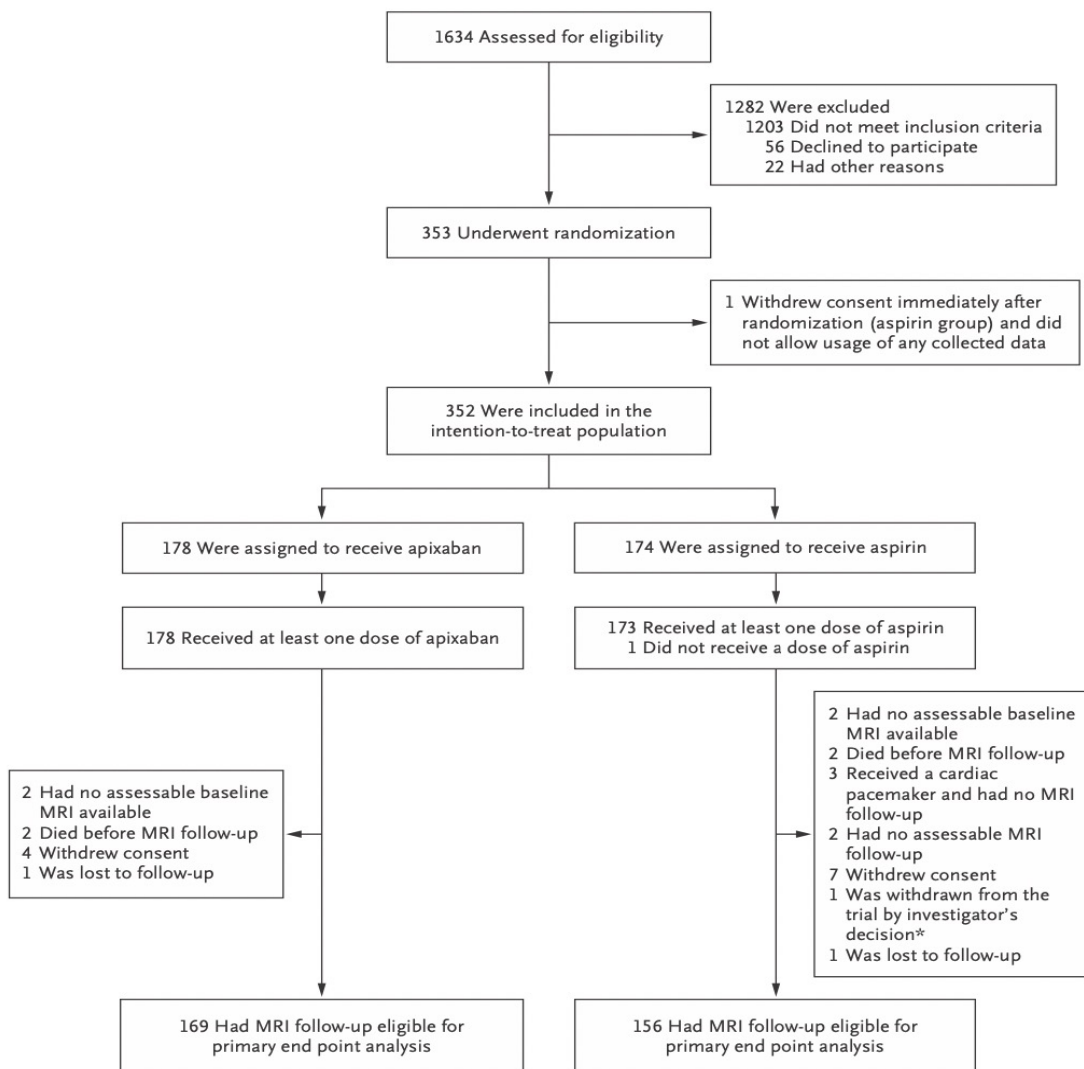


Hazard ratio, 1.00
(95% CI, 0.64 to 1.55)

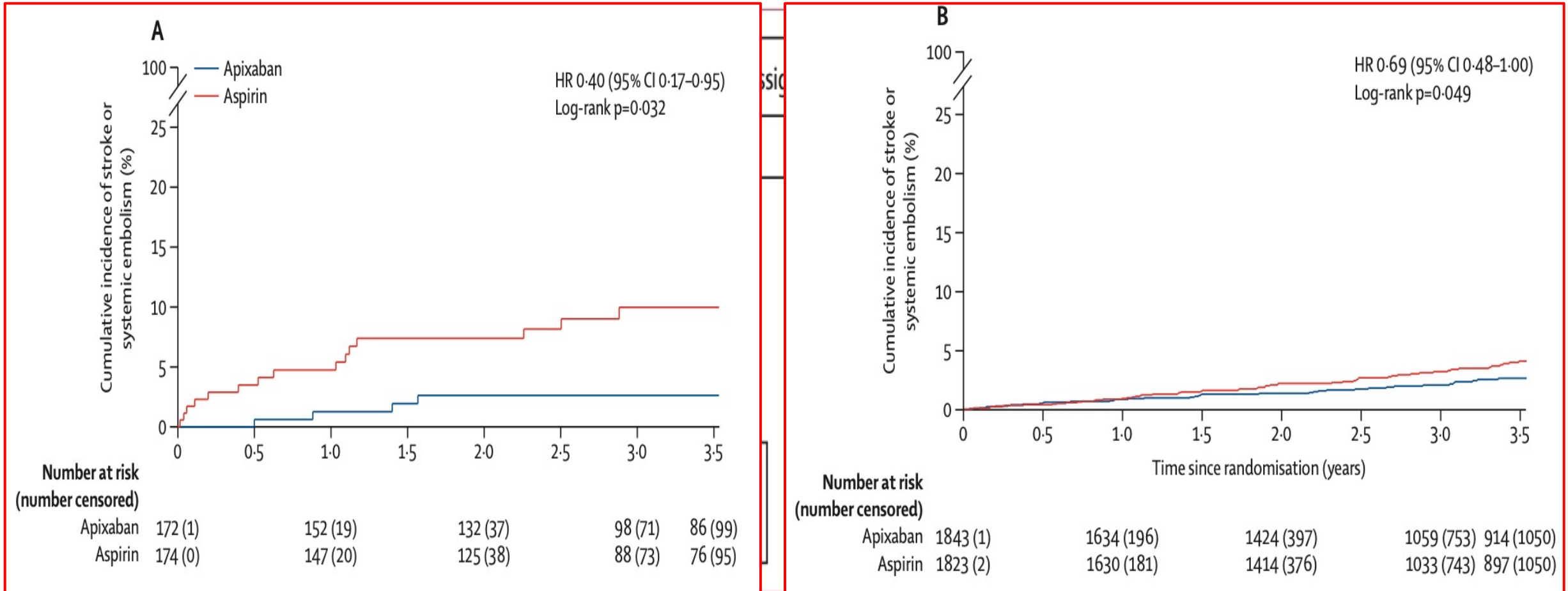
© AMA

Kamel H, Longstreth WT Jr, Tirschwell DL, et al; ARCADIA Investigators. Apixaban to prevent recurrence after cryptogenic stroke in patients with atrial cardiopathy: the ARCADIA randomized clinical trial. *JAMA*. Published online February 7, 2024. doi:10.1001/jama.2023.27188

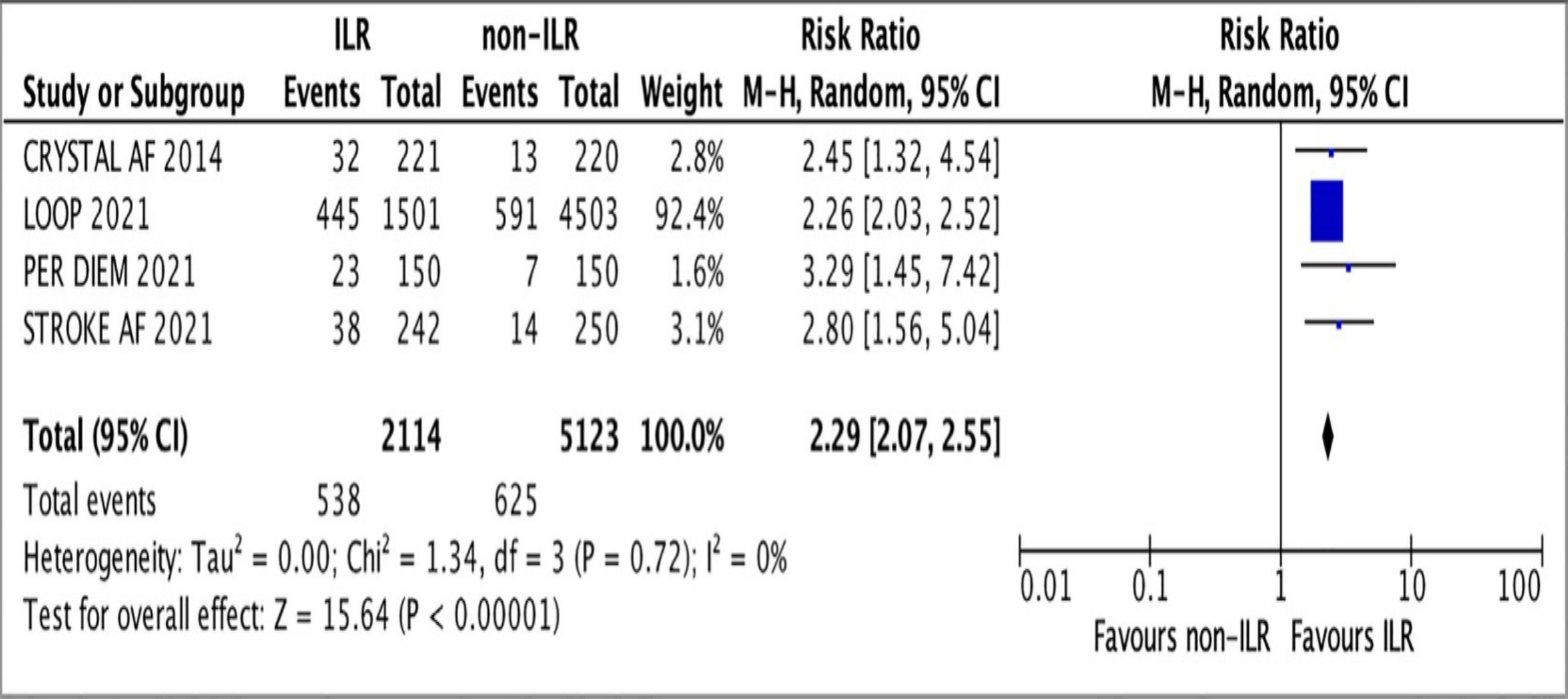
Apixaban versus Aspirin for Embolic Stroke of Undetermined Source (ATTICUS)



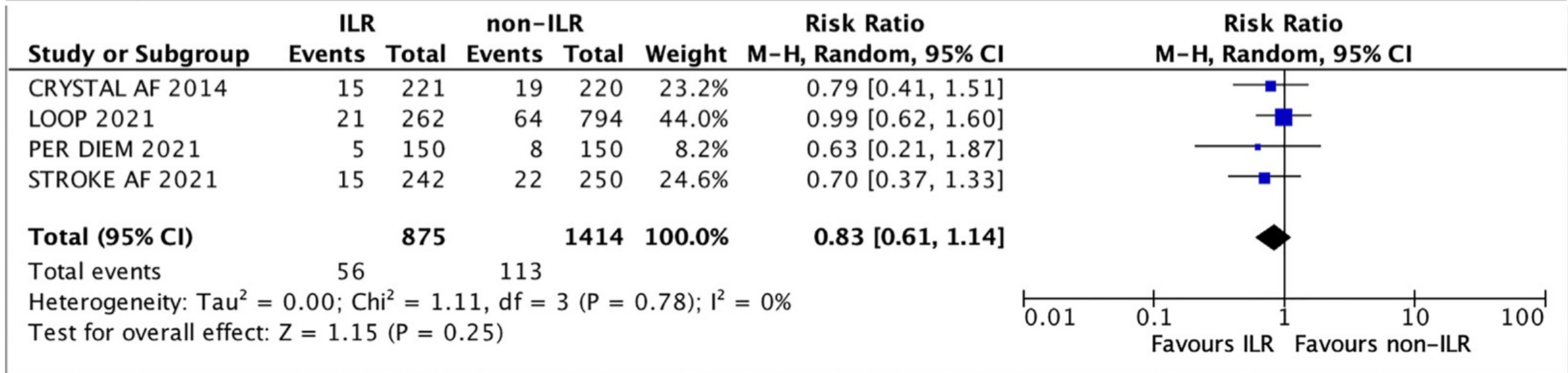
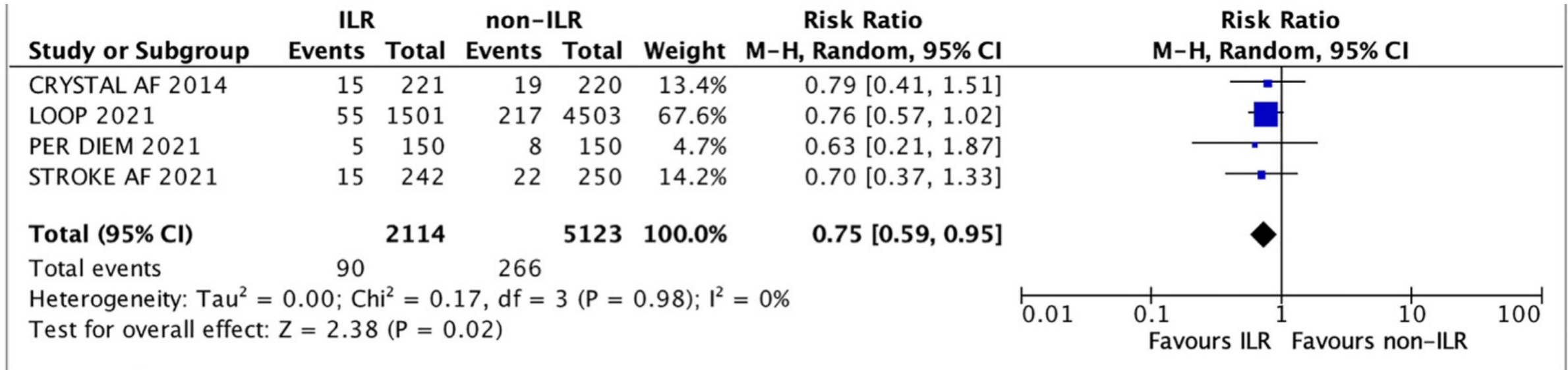
Apixaban versus aspirin for stroke prevention in people with subclinical AF and a history of stroke or TIA: subgroup analysis of the ARTESiA RCT



Effect of implantable loop recorder–based continuous rhythm monitoring on incident atrial fibrillation and stroke: An updated systematic review and meta-analysis of randomized controlled trials



Effect of implantable loop recorder–based continuous rhythm monitoring on incident atrial fibrillation and stroke: An updated systematic review and meta-analysis of randomized controlled trials



DOACs vs Aspirin for Secondary Stroke Prevention in Patients with ESUS: An updated Meta-Analysis of RCTs

DOAC versus Aspirin in patients with ESUS



Key question

Is direct oral anticoagulation (DOAC) therapy a superior strategy compared with aspirin for secondary stroke prevention in patients with embolic stroke of undetermined source (ESUS)?



Study design

Systematic review and meta-analysis of randomized controlled trials (RCTs)



Databases

PubMed

Embase



Statistical analysis



Population

Patients with ESUS



4 RCTs | 13,970 patients



Comparison

Anticoagulation with DOACs



Antiplatelet therapy with aspirin



Main results

Recurrent stroke

RR (95% CI)

0.95 (0.83-1.09)

Recurrent stroke or systemic embolism

1.03 (0.86-1.24)

All-cause mortality

1.11 (0.87-1.42)

Cardiovascular mortality

1.12 (0.75-1.66)

Myocardial infarction

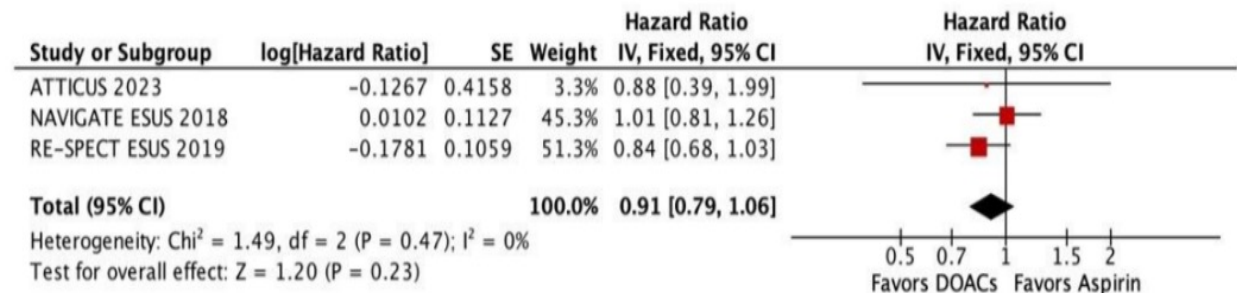
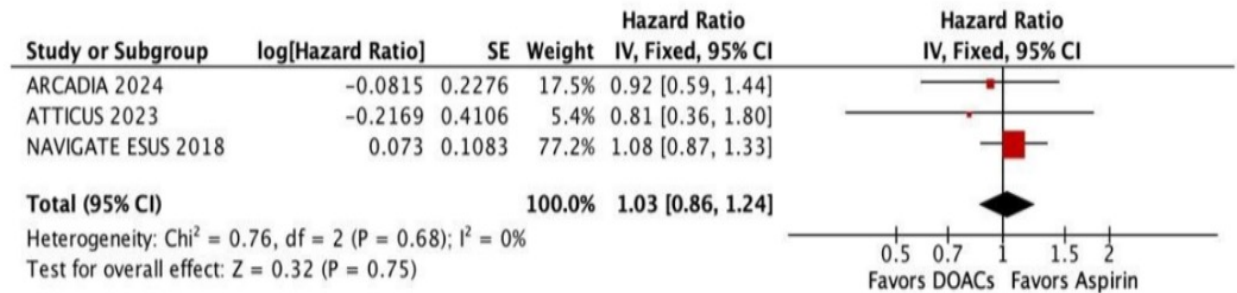
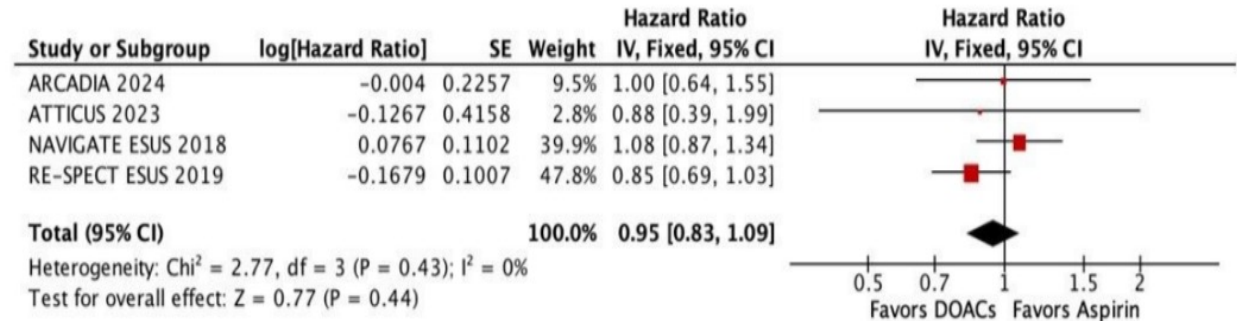
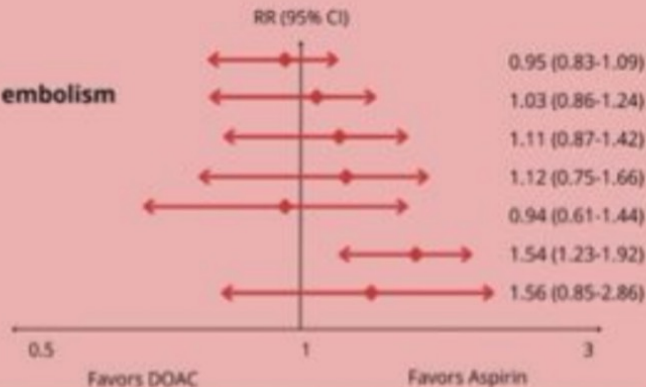
0.94 (0.61-1.44)

CRNMB

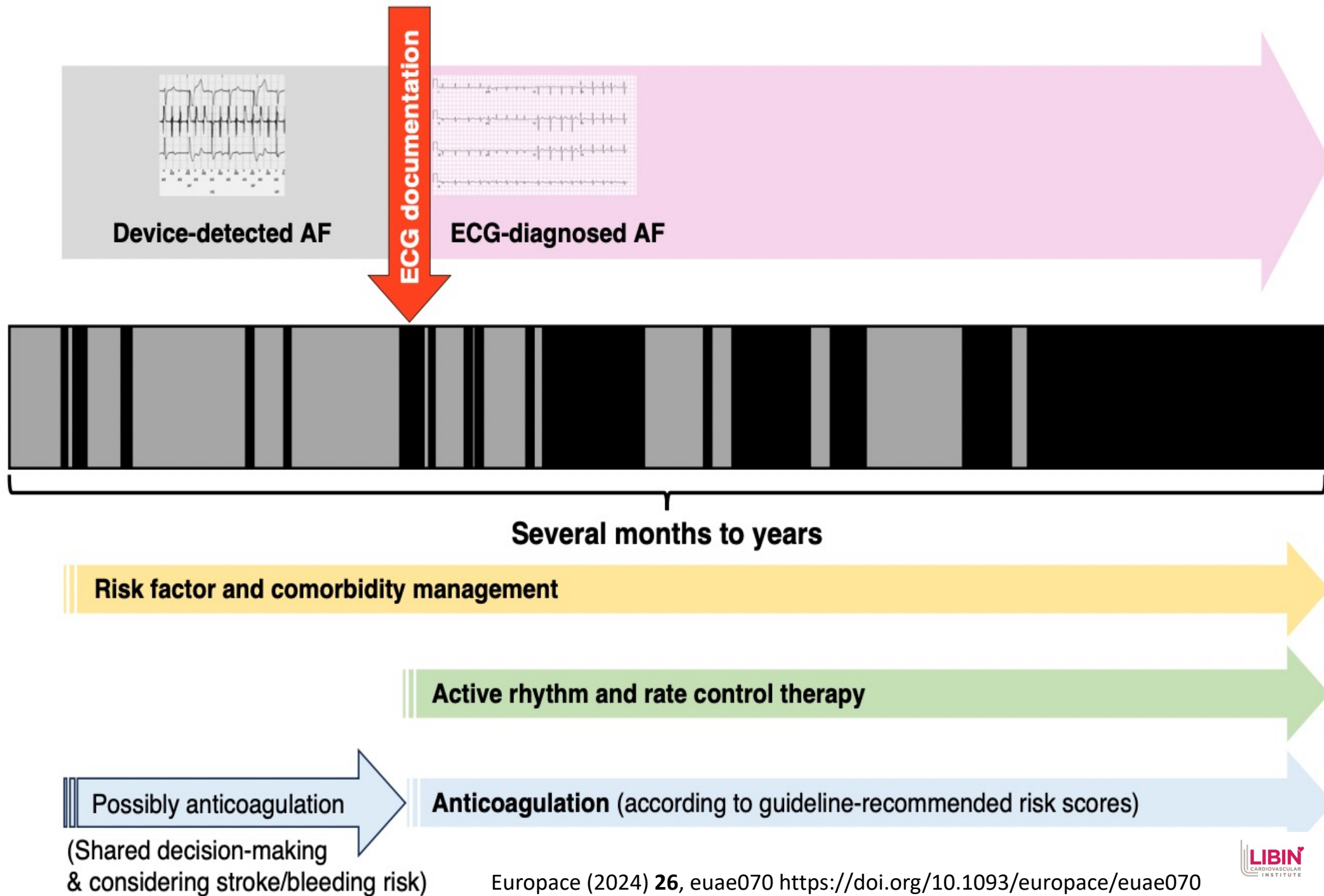
1.54 (1.23-1.92)

Major bleeding

1.56 (0.85-2.86)



**Time in
Sinus rhythm &
Atrial fibrillation**



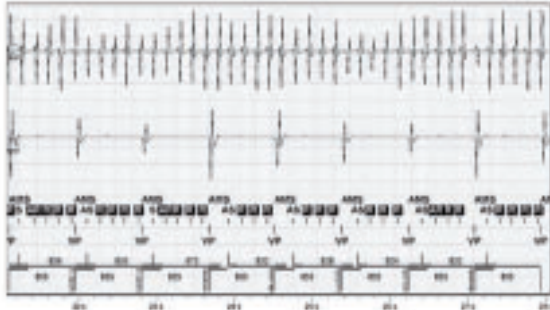
EHRA CONSENSUS DOCUMENT

Table 5 Summary of studies on atrial fibrillation detected by CIEDs and thromboembolic risk

Year	Trial	Number of patients	Duration of follow-up	Atrial rate cut-off	AF burden threshold	Hazard ratio for TE event	TE event rate (below vs. above AF burden threshold)
2003	Ancillary MOST ⁵	312	27 months (median)	>220 bpm	5 min	6.7 ($P=0.020$)	3.2% overall (1.3% vs. 5%)
2005	Italian AT500 Registry ¹⁸	725	22 months (median)	>174 bpm	24 h	3.1 ($P=0.044$)	1.2% annual rate
2009	Botto et al. ¹⁹	568	1 year (mean)	>174 bpm	CHADS ₂ +AF burden	n/a	2.5% overall (0.8% vs. 5%)
2009	TRENDS ²⁰	2486	1.4 years (mean)	>175 bpm	5.5 h	2.2 ($P=0.060$)	1.2% overall (1.1% vs. 2.4%)
2012	Home Monitor CRT ²²	560	370 days (median)	>180 bpm	3.8 h	9.4 ($P=0.006$)	2.0% overall
2012	ASSERT ⁷	2580	2.5 years (mean)	>190 bpm	6 min	2.5 ($P=0.007$)	(0.69% vs. 1.69%)
2014	SOS AF ²³	10016	2 years (median)	>175 bpm	1 h	2.11 ($P=0.008$)	0.39% per year
							Overall

Study (Year)	Design (number)	Monitoring device	Population	Definition of AF	Prevalence of AF
EMBRACE ⁶⁸ (2014)	RCT (286 with monitor vs. 285 with Holter)	Braemar ER910AF event monitor with dry electrode belt; automatic AF detection vs. 24-hr Holter	Cryptogenic Stroke	≥30 s Detected within 90 days	Monitor: 16.1% Holter 3.2
Grond et al. ⁵⁶ (2013)	Cohort (1172)	72-hr Holter; Lifecard CF (Spacelabs)	Ischemic stroke or TIA	>30 s	4.3% after 72 hr 2.6% after 24 hr
Jabaudon et al. ⁶⁹ (2004)	Cohort (149)	7-day; R-test Evolution II, (Novacor)	Stroke or TIA	Not stated	ECG: 2.7% 24-hr Holter: 5% ELR: 5.7% ^b
Tung et al. ⁶⁴ (2014)	Cohort (1171)	14-day continuous ECG monitor (Ziopatch; iRhythm)	Stroke or TIA	>30 s	5%
ASSERT-III ⁶⁷ (2015)	Cohort (100)	30-day event monitor; automatic AF detection (Vitaphone 3100), wireless central monitoring (m-Health Solutions)	Age≥80 years with hypertension and at least one additional AF risk factor)	≥6 min	15%
SCREEN-AF (NCT02392754) ⁷⁰	Ongoing Cohort (1800)	Two 14-day continuous ECG monitors (Ziopatch; iRhythm)	Age≥75 years without prior AF	≥5 min	Ongoing study

DDAF & Stroke Risk

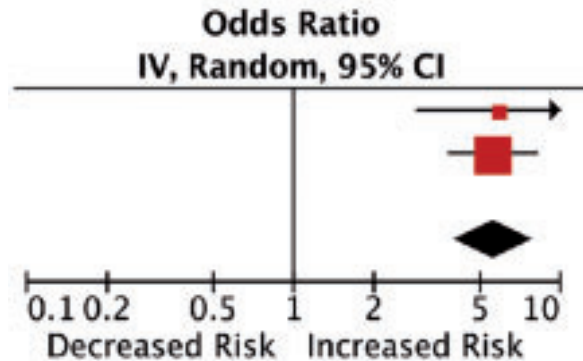


AHRE detected in 13.9% patients annually

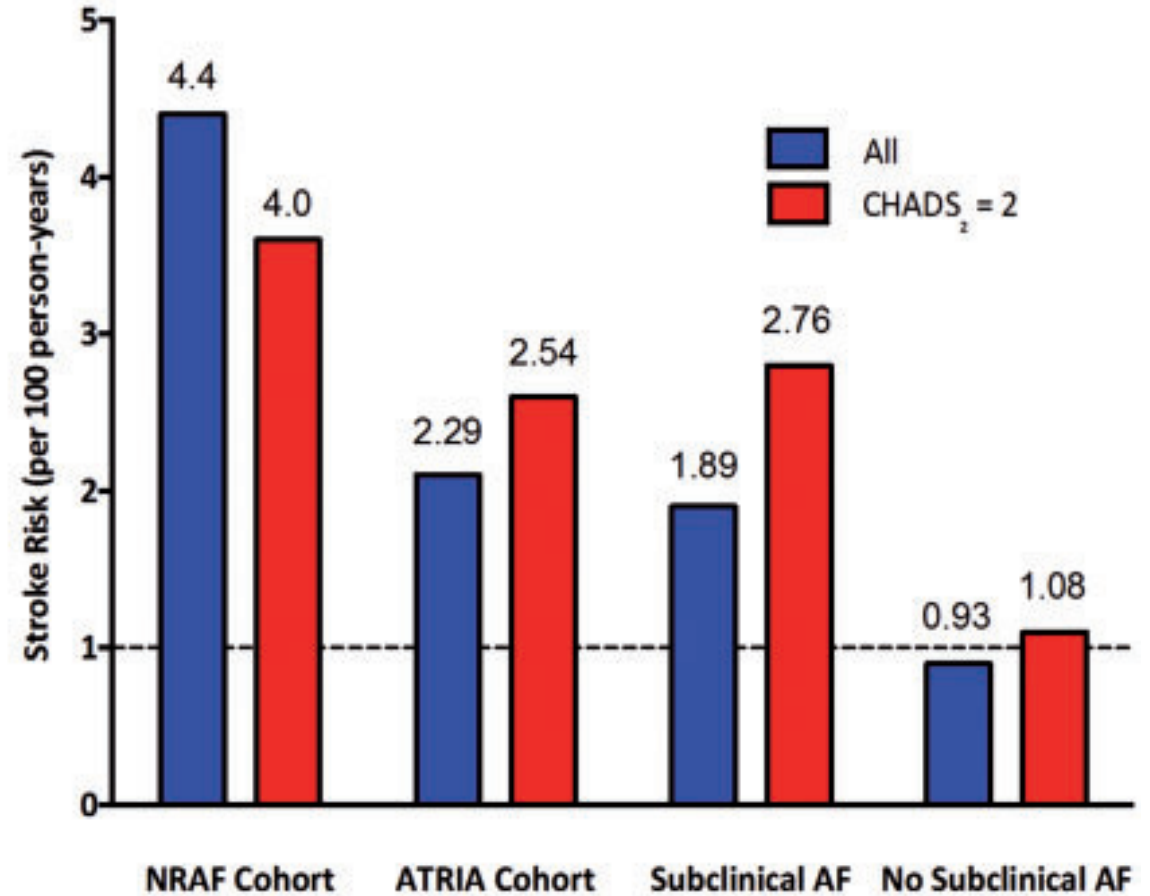
PPV of AHRE
 SJM- 83% >6min - 6 hour
 97% >6 hour
 Medtronic- 95%
 Biotronik- 91%

AHRE duration associated with stroke risk

ASSERT- >6min episode (SJM)
 TRENDS->5.5hr daily burden (Medtronic)
 Home CARE and everest trials-3.8hr daily burden (Biotronik)



Patients with AHRE 5.7 fold more like to have clinical AF



Subclinical AF and stroke risk

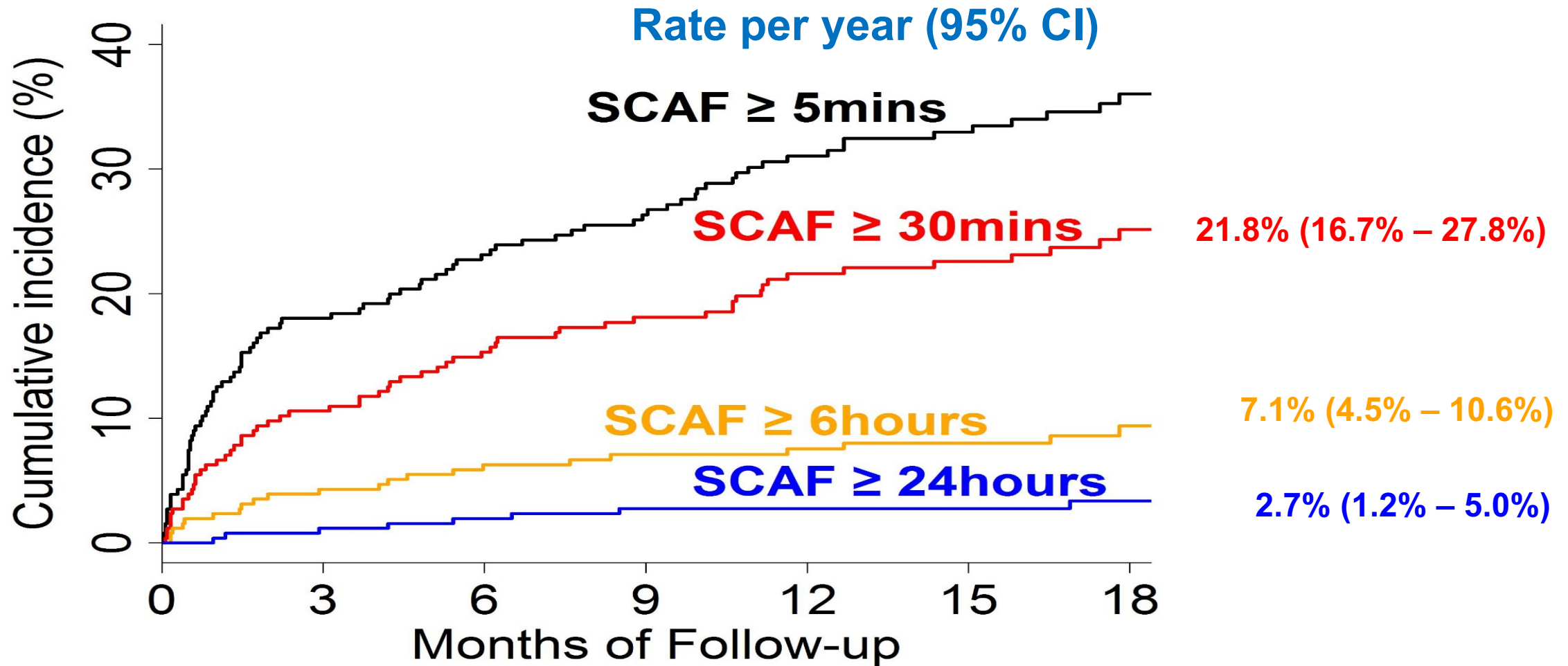
Duration of device-detected subclinical atrial fibrillation and occurrence of stroke in ASSERT

Isabelle C. Van Gelder^{1*}, Jeff S. Healey², Harry J.G.M. Crijns³, Jia Wang², Stefan H. Hohnloser⁴, Michael R. Gold⁵, Alessandro Capucci⁶, Chu-Pak Lau⁷, Carlos A. Morillo², Anne H. Hobbelt¹, Michiel Rienstra¹, and Stuart J. Connolly²

Table 4 Landmark analysis showing ischemic stroke/systemic embolism occurring after 1 year follow-up, according to SCAF durations between enrollment and 1 year follow-up^a

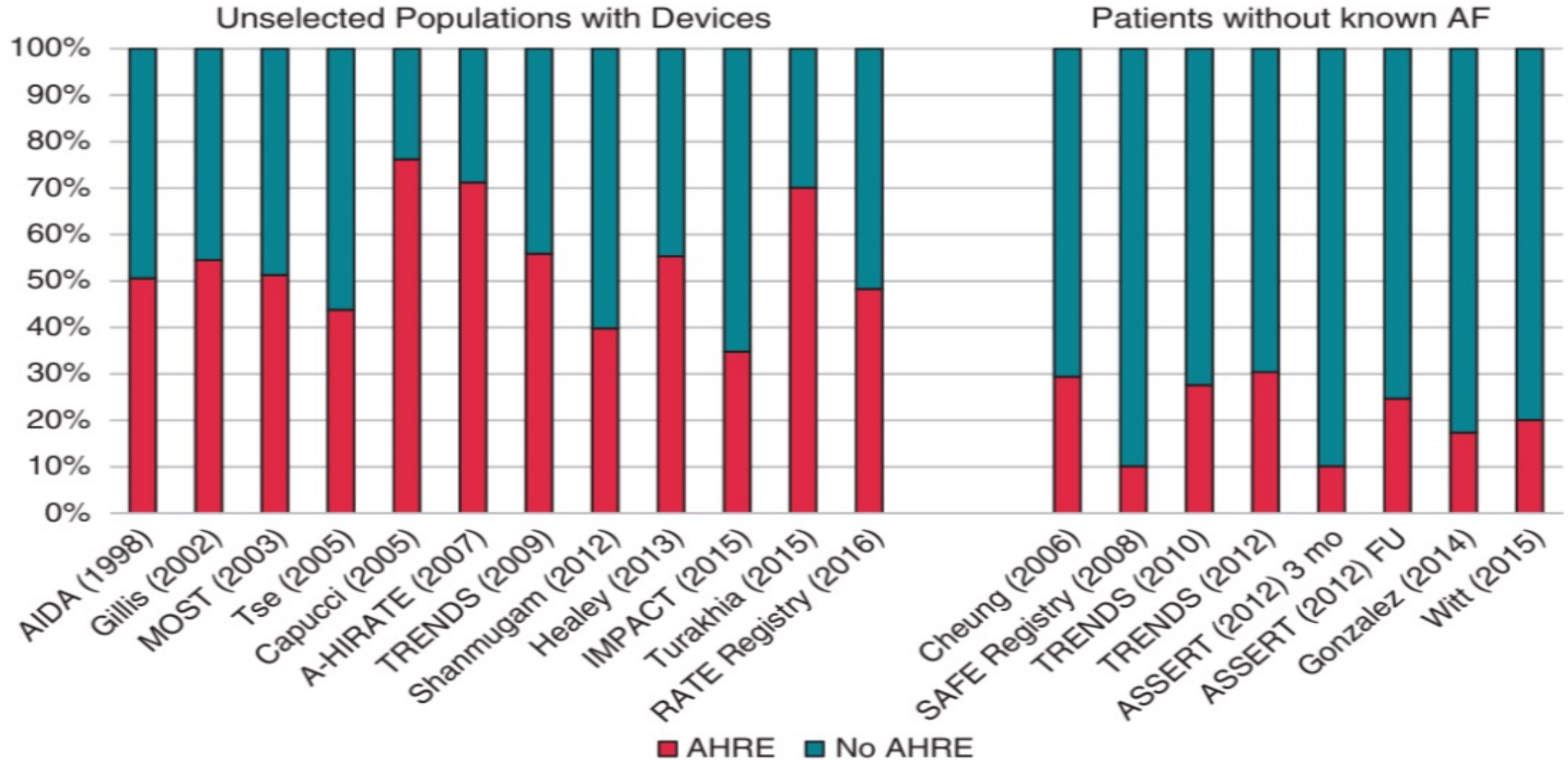
SCAF duration	Number events/patients	Event rate (%/year)	Unadjusted	P-value	Adjusted ^b	P-value
			Hazard ratio (95% CI)		Hazard ratio (95% CI)	
No SCAF	19/1811	0.54	1	–	1	–
>6 min–6 h	7/310	1.14	2.11 (0.89–5.02)	0.091	1.75 (0.69–4.44)	0.242
>6–24 h	2/105	0.95	1.79 (0.42–7.69)	0.433	1.85 (0.43–8.01)	0.413
>24 h	7/129	3.08	5.73 (2.41–13.64)	<0.001	5.37 (2.08–13.87)	<0.001

ASSERT-2 Incidence of SCAF



Circulation. 2017;136:1276–1283. DOI: 10.1161/CIRCULATIONAHA.117.028845

Incidence of ILR-detected subclinical AF in patients at high risk of stroke



The influence of atrial high-rate episodes on stroke and cardiovascular death: an update

PPG-based screening

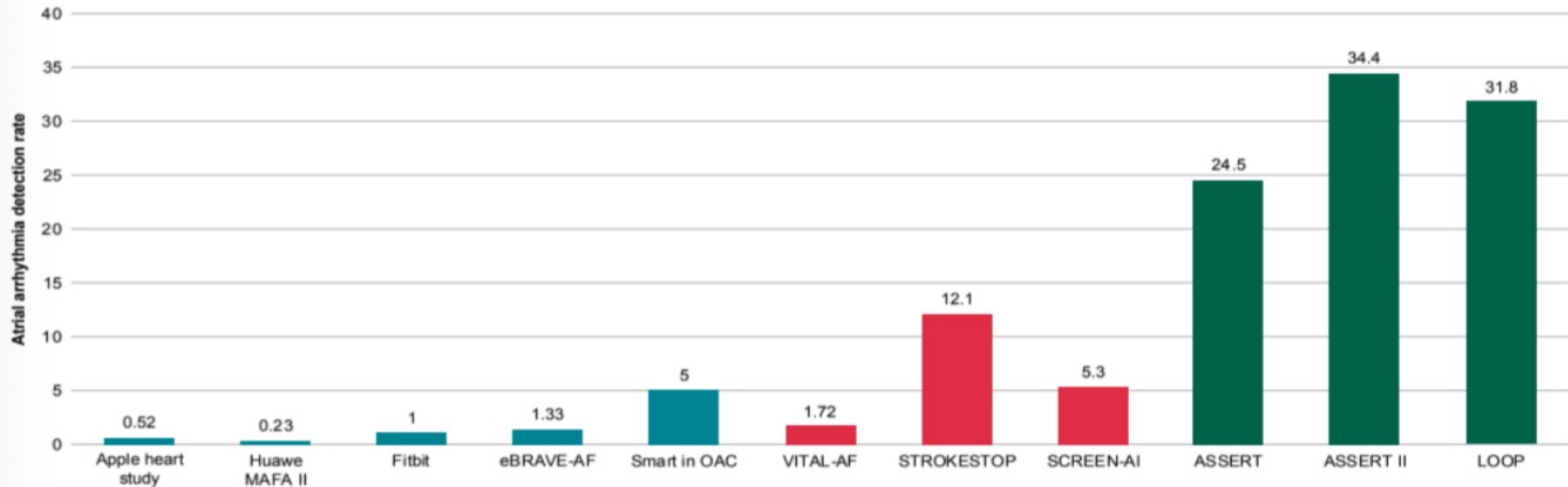
ECG-based screening

Continuous monitoring by CIED

DDDR

ICM

	Apple heart study	Huawei MAFA II	Fitbit	eBRAVE-AF	Smart in OAC	VITAL-AF	STROKESTOP	SCREEN-AI	ASSERT	ASSERT II	LOOP
Part	0.50	0.23	0	1.33	5	1.72	12.1	5.3	24.5	34.4	31.8
Control	–	–	–	0.63	–	1.59	12.8	0.5	–	–	12.2
n part	419297	187912	455699	2860	882	15393	14387	434	2580	256	1501
n control	–	–	–	2691	–	15322	14381	422	–	–	4503
FU	–	14 d	7 d	6 m	8 w	1y	6.9y	6m	2.5y	1.3y	5.4y
Age [y]	≥22	≥18	≥22	50–90 + RF	65–90 + RF	≥65	75–76	≥75	≥65	≥65 + RF	70–90 + RF



Screening for AF: How?

Sensitivity and specificity of various AF screening tools with the 12-lead ECG as the gold standard

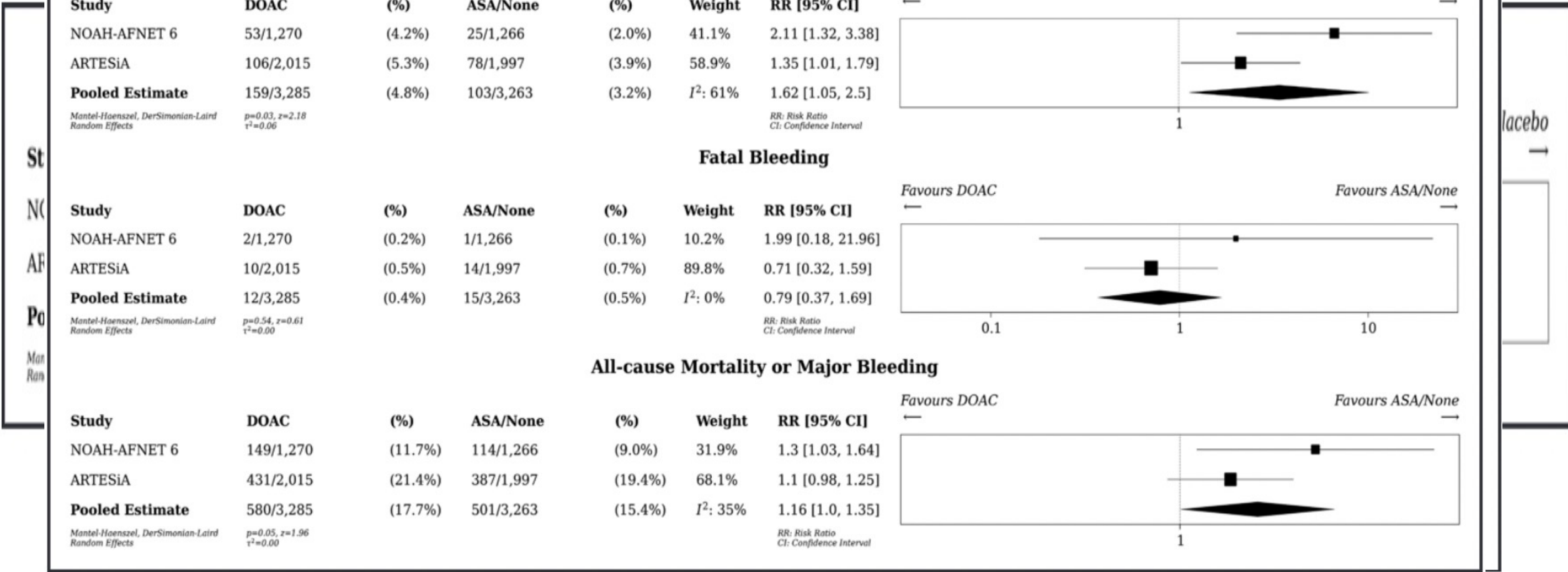
	Sensitivity	Specificity
Pulse taking ²⁰³	87 – 97%	70 – 81%
Automated BP monitors ^{204–207}	93 – 100%	86 – 92%
Single lead ECG ^{208–211}	94 – 98%	76 – 95%
Smartphone apps ^{188,189,191,195,212,213}	91.5 – 98.5%	91.4 – 100%
Watches ^{196,198,213,214}	97 – 99%	83 – 94%

Table. Characteristics of Included Studies

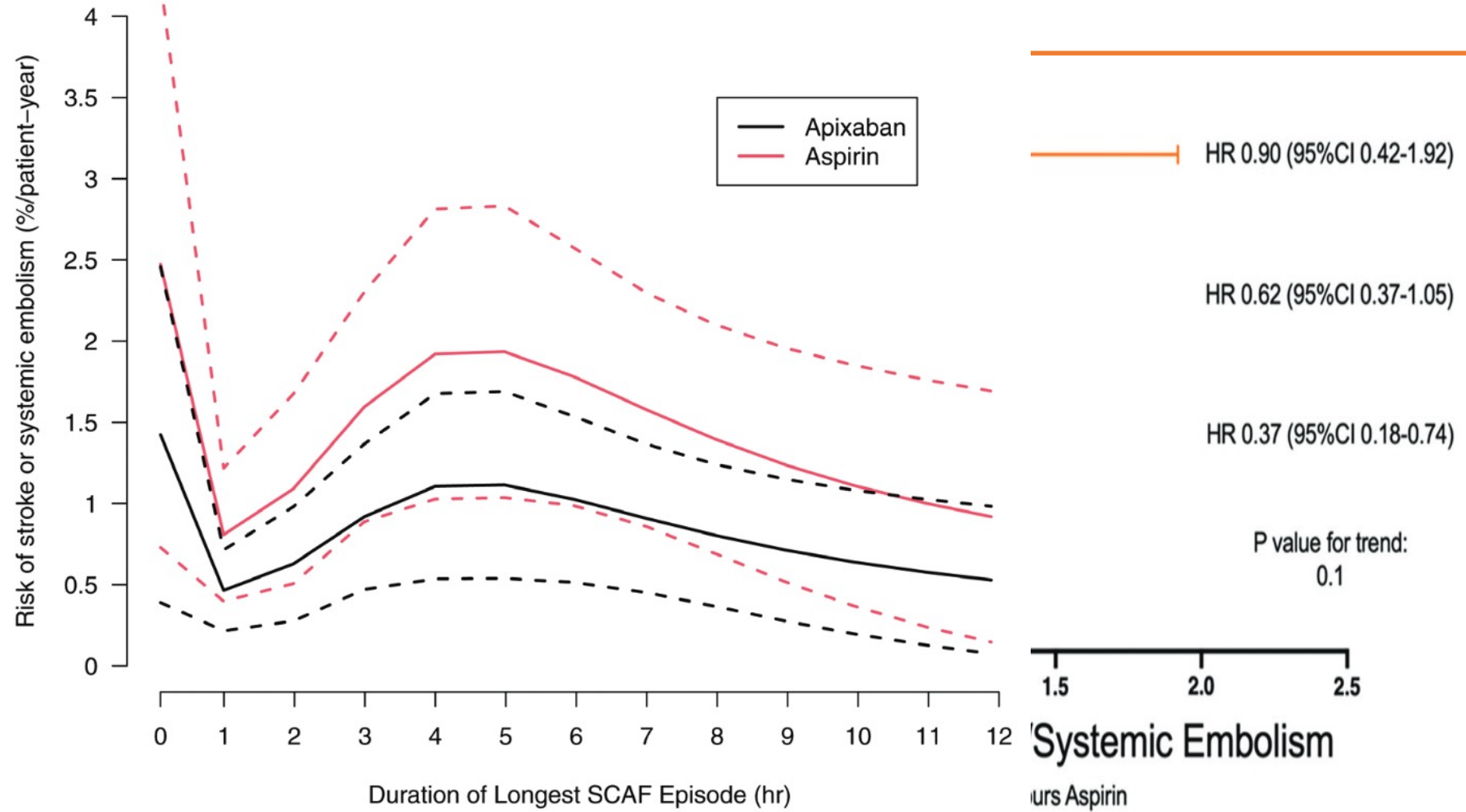
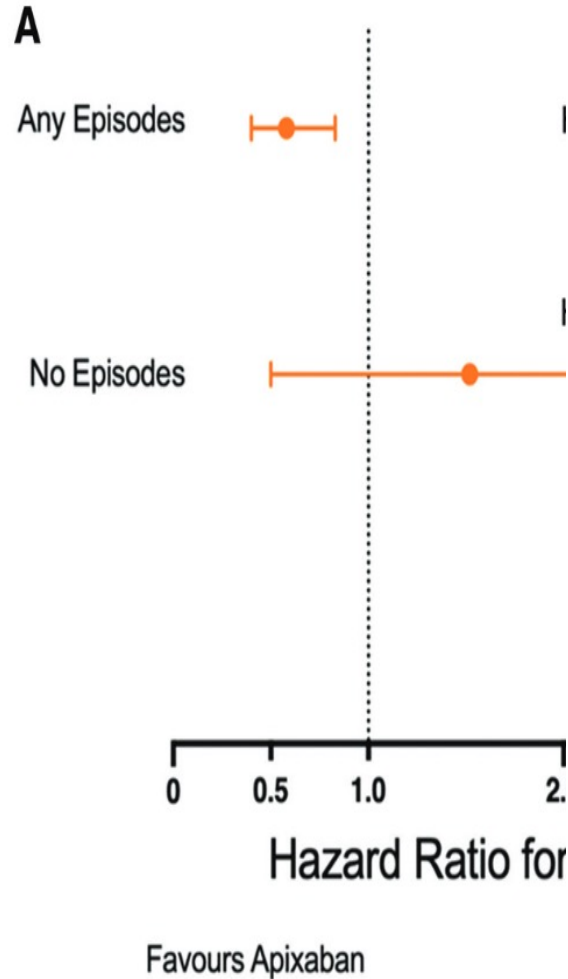
	NOAH-AFNET 6	ARTESiA
N	2536	4012
Intervention	Edoxaban	Apixaban
Comparator	ASA or placebo	ASA
Trial registration (ClinicalTrials.gov identifier)	NCT02618577	NCT01938248
Age, y (mean±SD)	77.5±6.7	76.8±7.6
Female sex	37.4%	36.1%
CHA ₂ DS ₂ -VASc score (median, IQR/mean±SD)	4 (3–5)	3.9±1.1
Hypertension	86.9%	81.5%
Diabetes	26.9%	29.1%
Heart failure	27.4%	28.3%
Previous stroke, systemic embolism, or TIA	10.0%	9.0%
Creatinine clearance (mL/min, mean±SD)	66.0±23.4	71.4±28.7
Received reduced-dose DOAC (study drug)	28.7%	9.4%
Received ASA (study drug)	53.9%	100%

	NOAH-AFNET 6	ARTESiA
Device type		
Pacemaker	81.7%	69.4%
ICD	7.4%	13.8%
CRT-ICD or CRT pacemaker	9.9%	11.6%
ICM	1.0%	5.2%
Duration of device-detected AF before enrollment* (median, IQR)	2.8 h (0.8–9.4)	1.5 h (0.2–5.0)
Median number of device-detected AF episodes before enrollment	2.8	NR
Follow-up	Median 1.8 y	Mean 3.5±1.8 y
Incidence of clinical AF†	8.7% per patient-year	6.3% per patient-year

Direct Oral Anticoagulants for Stroke Prevention in Patients With Device-Detected Atrial Fibrillation: A Study-Level Meta-Analysis of the NOAH-AFNET 6 and ARTESiA Trials



Risk of Stroke or Systemic Embolism According to Baseline Frequency and Duration of Subclinical Atrial Fibrillation: Insights From the ARTESiA Trial



No. with Episode	1028	485	344	255	190	148	141	93	97	91	77	46	0
No. Events	39	17	12	15	8	9	5	8	2	4	1	0	0

What is the efficacy and safety of anticoagulation in patients
with a history of stroke or transient ischemic attack and device-detected atrial fibrillation?

Methods



Systematic review and
meta-analysis



2 RCTs



Patients with a history of
stroke or TIA and
device-detected AF

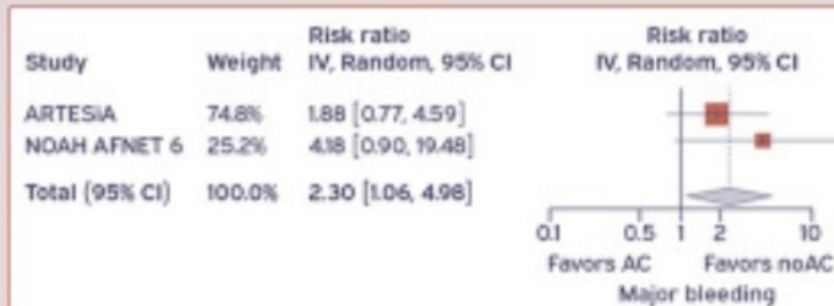
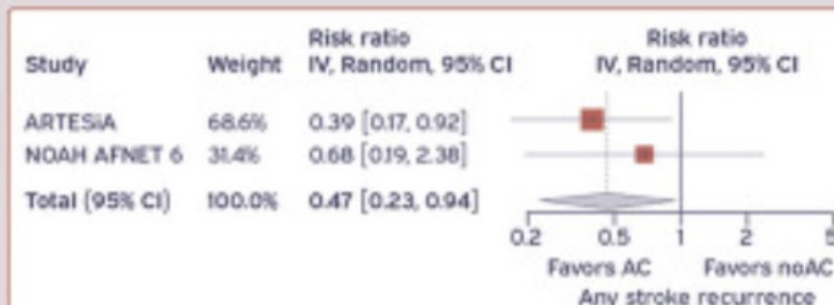


294 patients
receiving AC
vs.



305 patients
receiving no AC

Results



Conclusion

Anticoagulation in patients
with prior stroke or TIA and
device-detected AF reduces
any stroke recurrence but
increases major bleeding risk
without raising hemorrhagic
stroke incidence.

Abbreviations:

RCT: randomized-controlled clinical trials

TIA: transient ischemic attack

AF: atrial fibrillation

AC: anticoagulation

RR: risk ratio

CI: confidence interval

Absolute Risk of Stroke

- Overall 1% per year
 - Above classic decision-model threshold
- May be modified by:
 - CHA₂DS₂-VASc score
 - Episode duration and frequency
 - Other factors

Patient Preferences

- Patients have placed higher emphasis on stroke avoidance and less on bleeding avoidance compared to physicians
- Patients may have unique values and preferences

Treatment Effects of DOAC

(Intention to Treat Populations)

- Reduces stroke by 32% (95% CI 8% to 50%)
- Increases bleeding by 62% (95% CI 5% to 150%)
- No effect on mortality

Event Severity

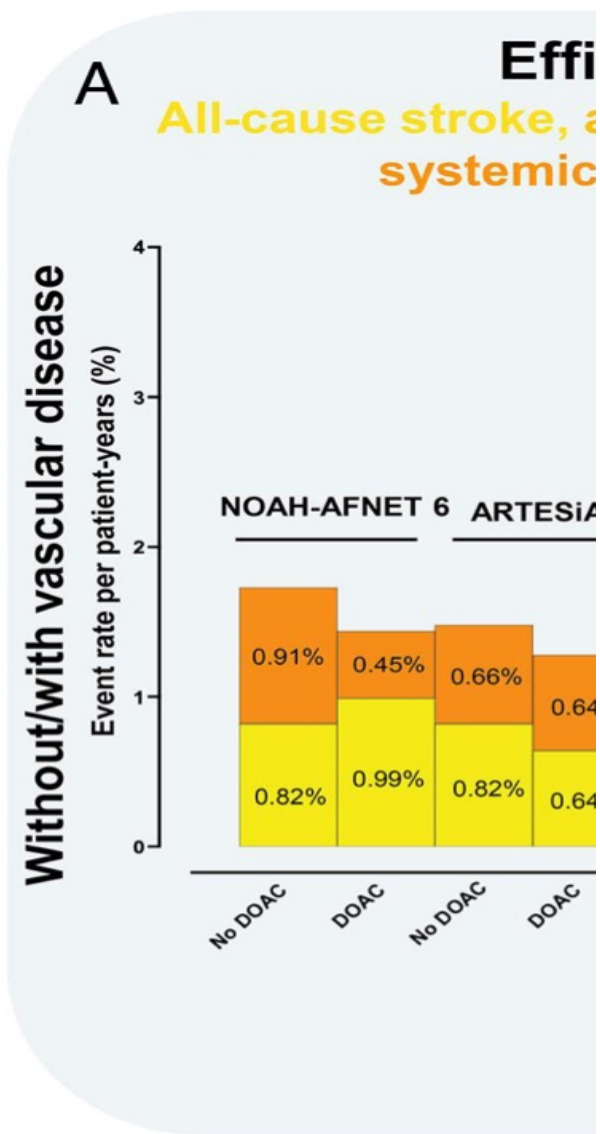
- Roughly half of strokes are fatal or disabling
- Fewer than 15% of bleeds on apixaban are fatal or life-threatening

Atrial Fibrillation Management in 2021: An Updated Comparison of the Current CCS/CHRS, ESC, and AHA/ACC/HRS Guidelines

Anticoagulation in Special Circumstances

Indication	2020 CCS/CHRS	2020 ESC	2019 AHA/ACC/HRS
Device-detected AF	<ul style="list-style-type: none"> OAC reasonable in patients ≥ 65 years or CHADS₂ score ≥ 1 with subclinical AF > 24 hr (Weak Recommendation). 	<ul style="list-style-type: none"> No specific recommendations. 	<ul style="list-style-type: none"> No specific recommendations.
Elderly	<ul style="list-style-type: none"> OAC should be prescribed for most frail elderly patients with AF (Strong Recommendation). 	<ul style="list-style-type: none"> No specific recommendations. 	<ul style="list-style-type: none"> No specific recommendations.

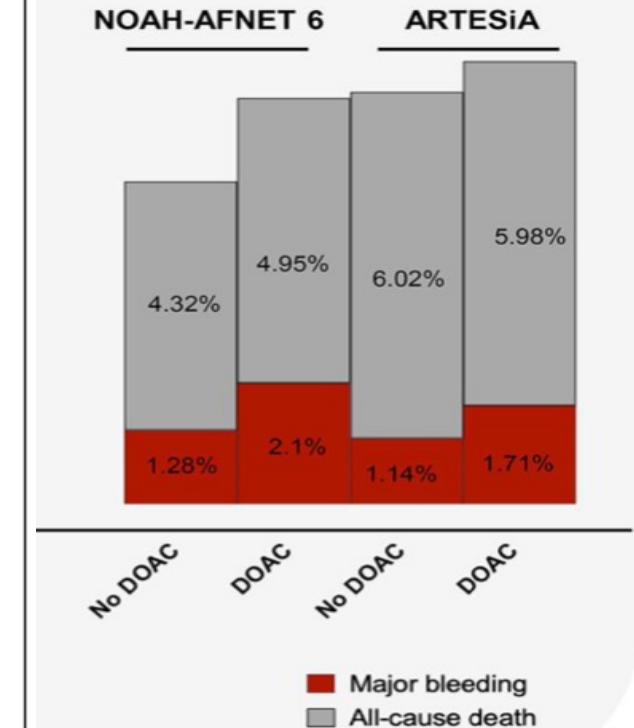
Anticoagulation in patients with low- burden atrial fibrillation: new evidence focussing on device- detected AF



BOX 1 SUMMARY OF THE RECENT EVIDENCE THAT CAN HELP TO ADVISE PATIENTS WITH DEVICE-DETECTED ATRIAL FIBRILLATION (AF) ON THE USE OF ANTICOAGULATION THERAPY

- ⇒ AF burden modulates stroke risk, and lowering AF burden can lower the risk of stroke in patients with AF
- ⇒ The rate of stroke is low without anticoagulation in patients with device-detected AF and clinical stroke risk factors. Based on a combined subanalysis of Non-Vitamin K Antagonist Oral Anticoagulants in Patients with Atrial High Rate Episodes and Apixaban for the Reduction of Thromboembolism in Patients With Device-Detected Subclinical Atrial Fibrillation, patients with device-detected AF without vascular disease are probably best managed without antithrombotic therapy
- ⇒ In patients with device-detected AF and vascular disease, anticoagulation can slightly reduce thromboembolic events with an increased risk of bleeding that may be acceptable in some patients. Shared decision-making, potentially also considering the individual AF burden, seems justified in these patients.

fety ling or Death



Atrial fibrillation burden: a new outcome predictor and therapeutic target

Becher N, et al. EHJ (2024) 45, 2824–2838

Atrial fibrillation burden: a paradigm shift

Current classification of atrial fibrillation



- Device-detected
- Paroxysmal
- Persistent
- Long-standing persistent
- Permanent

Imprecise patterns



Atrial fibrillation burden-based quantitative classification of atrial fibrillation

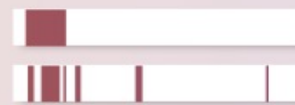


AF burden quantification



Precise

Duration
Frequency
Distribution



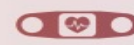
Loop recorder



Smart watches



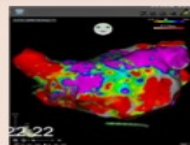
Cardiac implantable electronic devices



ECG patch

Interact with

Atrial substrate and cardiovascular comorbidities



- Atrial cardiomyopathy
- Acute and chronic exposure to stressors
- Age, risk factors, and comorbidities

Refined risk prediction

- Stroke, systemic embolism
- Heart failure
- Hospitalization
- Dementia
- Quality of life



Refined therapy selection

- Rhythm control/ablation
- Antiarrhythmic drugs
- Oral anticoagulation
- Follow-up visits
- Symptom control
- Quality of life



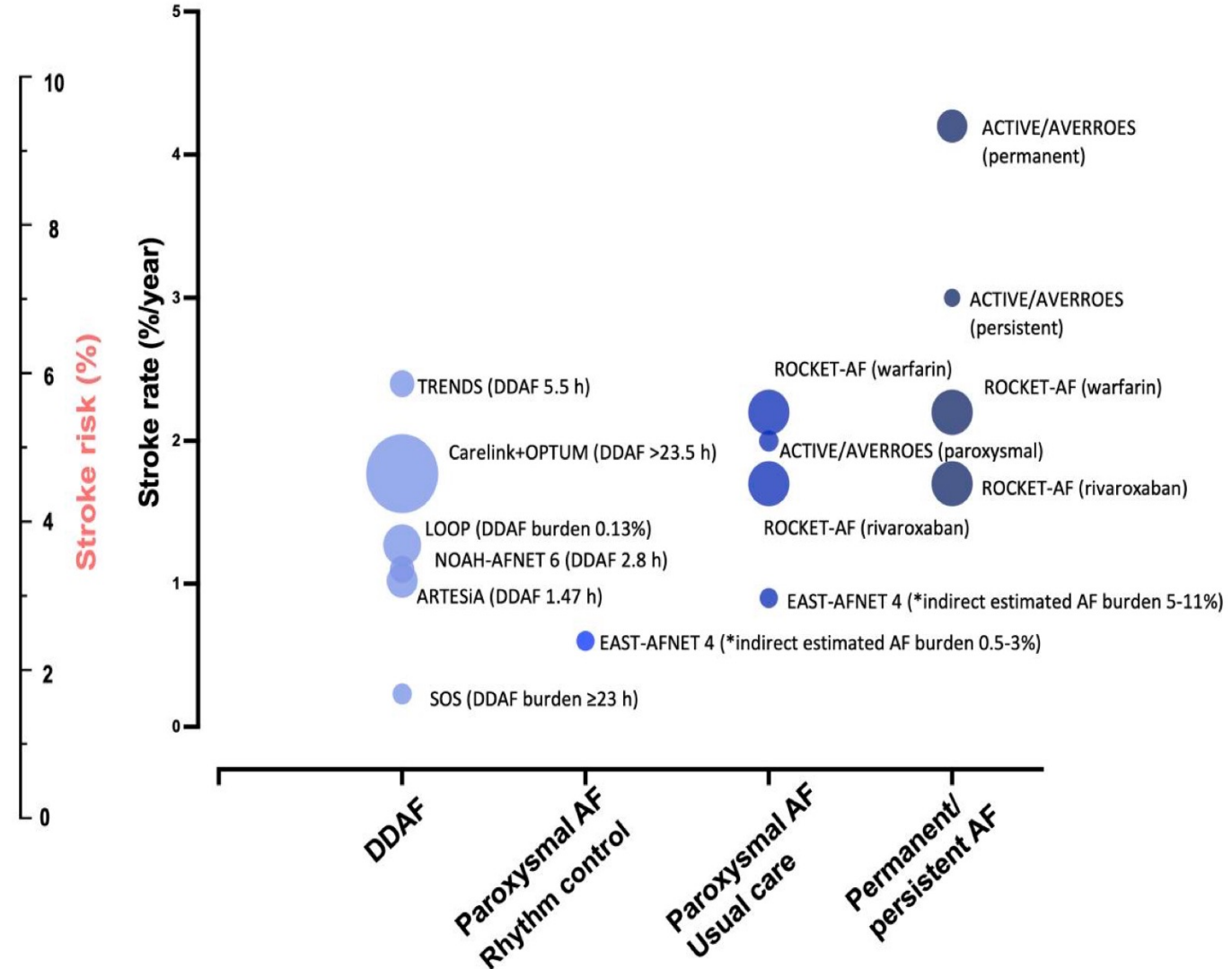
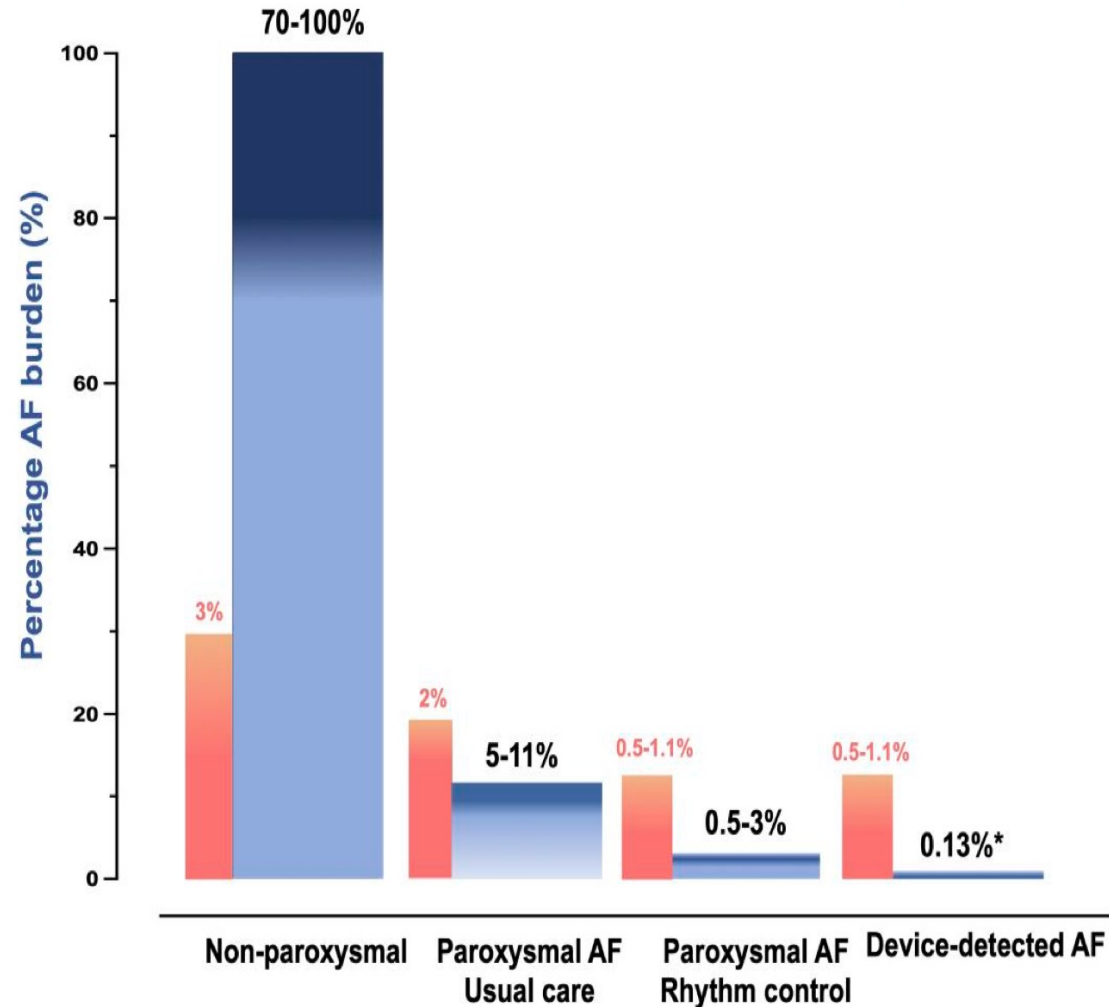
Refined clinical research

- Enrolment criteria
- Quantifiable intermediate outcomes



Atrial fibrillation burden: a new outcome predictor and therapeutic target

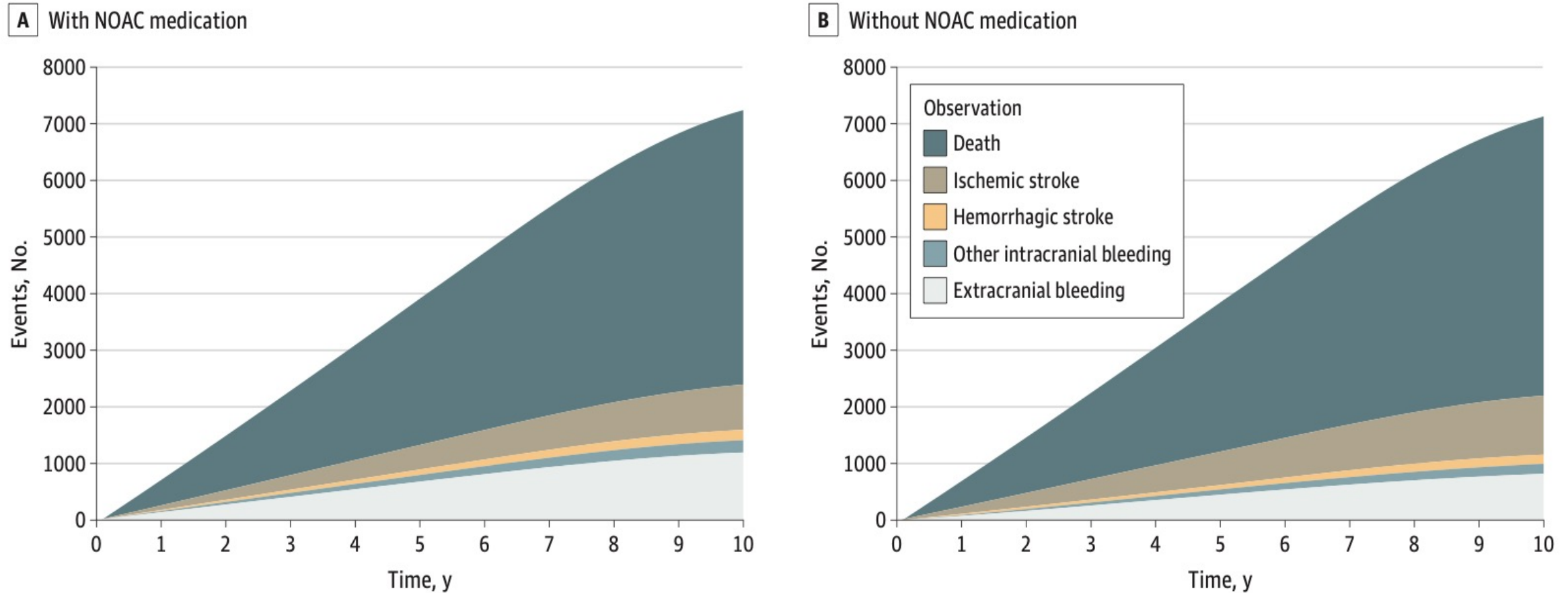
AF burden and stroke risk without anticoagulation



Becher N, et al. European Heart Journal (2024) 45, 2824–2838

Net Benefit of Anticoagulation in Subclinical Device-Detected Atrial Fibrillation

Incidence of Different Outcome Events During the 10-Year Simulation



Net Benefit of Anticoagulation in Subclinical Device-Detected Atrial Fibrillation

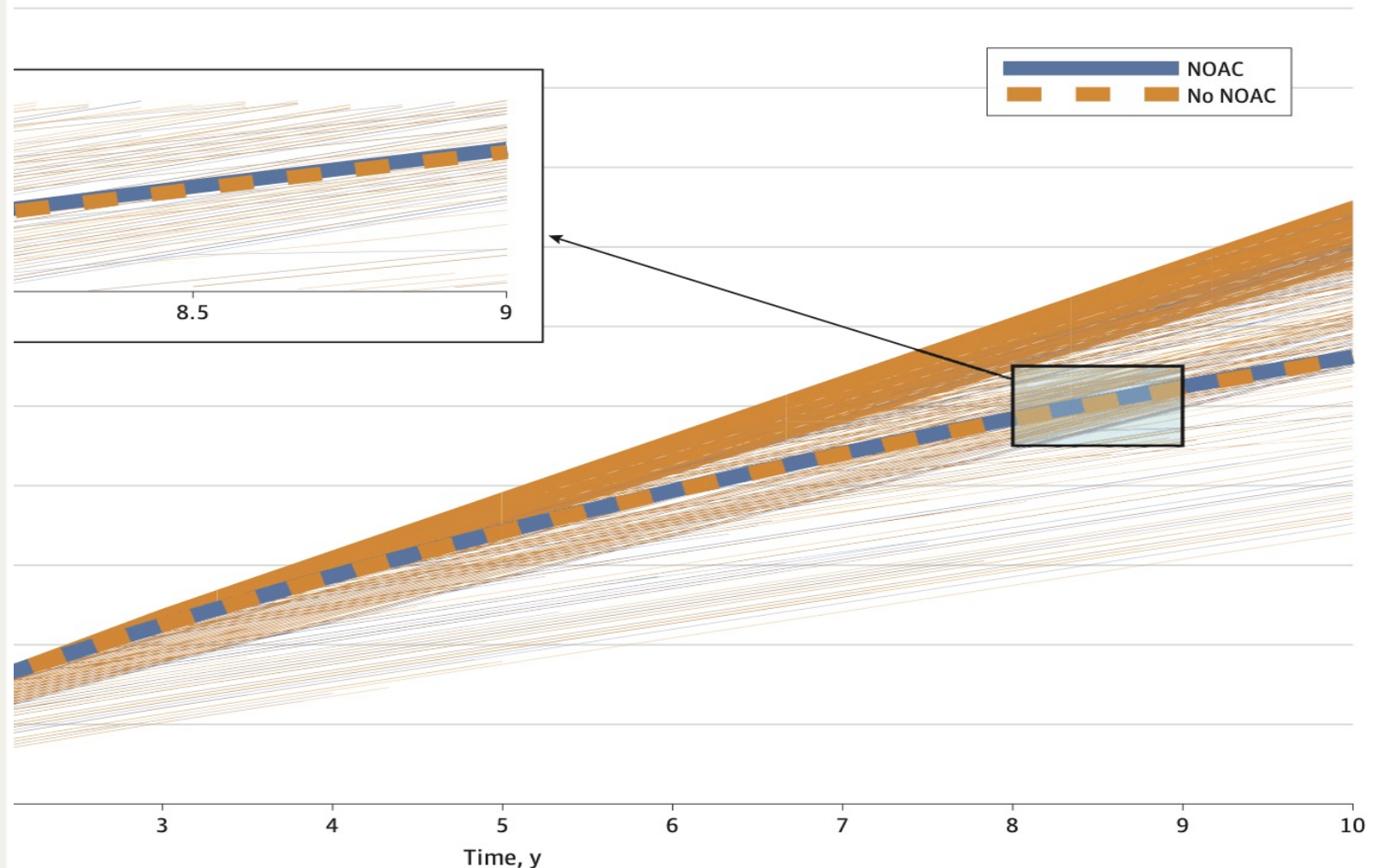
Key Points

Question Does anticoagulation provide a net benefit in patients with device-detected subclinical atrial fibrillation?

Findings In this analytical model study, nonvitamin K antagonist oral anticoagulant (NOAC) therapy in patients with subclinical atrial fibrillation resulted in a net benefit of approximately 1 additional week of quality-adjusted life per patient. When uncertainty in treatment effects was considered, there was only a 66% probability that NOAC treatment would result in more quality-adjusted life than withholding treatment.

Meaning These findings suggest that net benefit of anticoagulation for device-detected subclinical atrial fibrillation is uncertain, and the effect size is not clinically meaningful.

rs

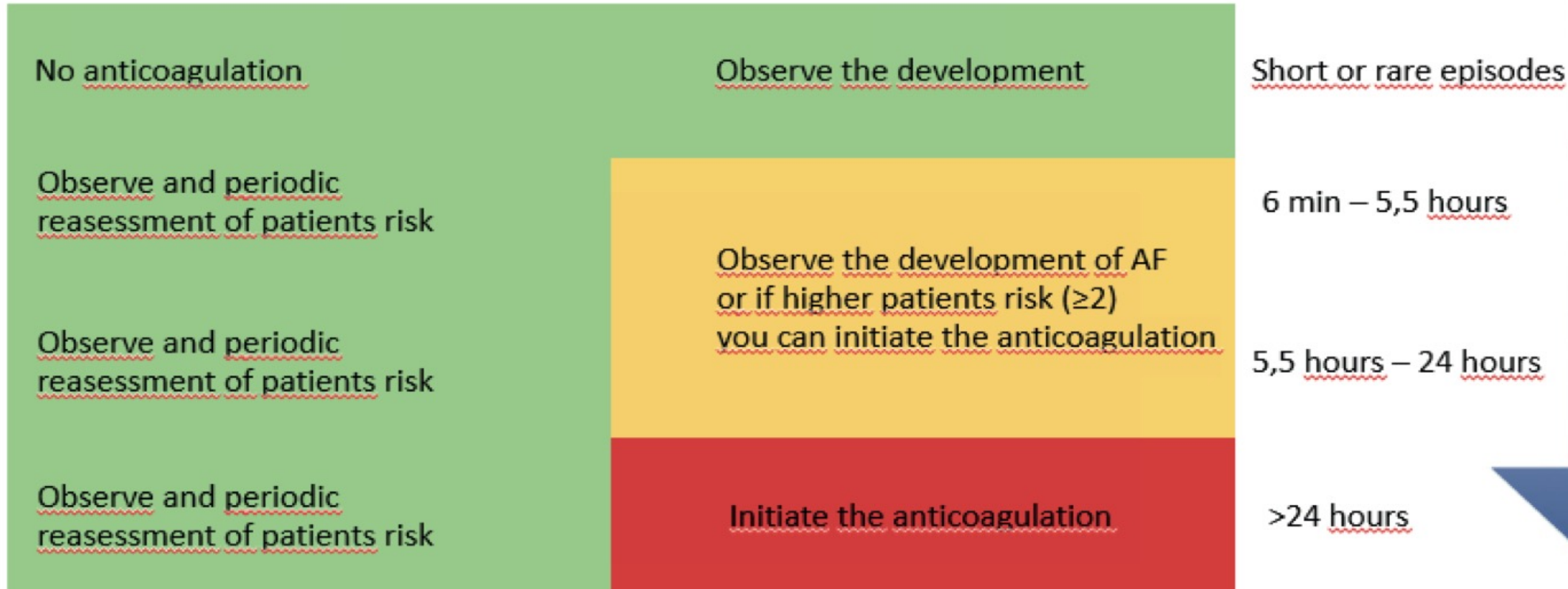


Atrial fibrillation detected by cardiac implantable electronic devices

Risk of thromboembolism by CHA₂DS₂-VA score

0

≥ 1



DDAF BURDEN

Device-Detected AF: OAC, Nothing, or Call a Friend... More Information

- Cryptogenic Stroke / ESUS: No Evidence OAC provides any benefit
- DDAF-PM/ICDs: Depends on several factors CHADASVASC >5? AF Burden. Overall, no net clinical benefit in general.
- DDAF-Wearables/Loop Recorders: More information please!