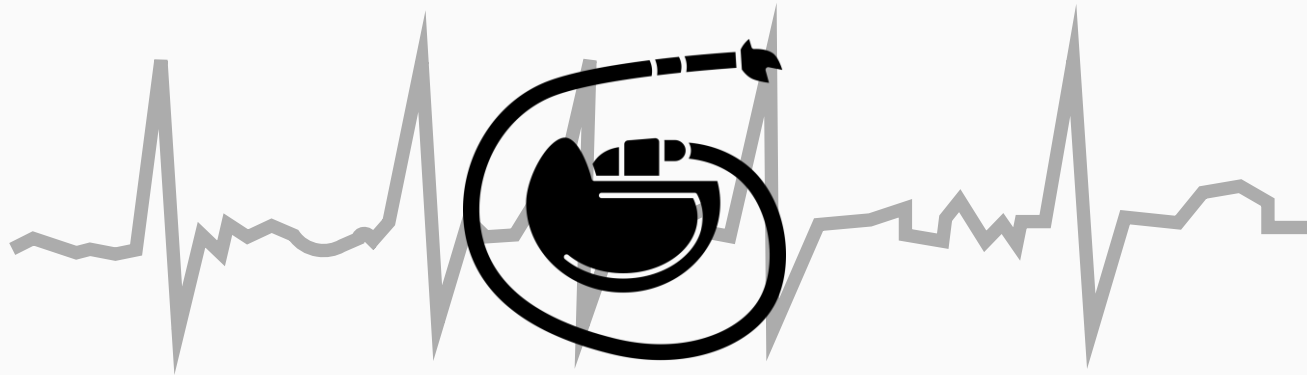


GREAT DEBATES

Device-detected or clinically diagnosed AF:
the same decision for oral anticoagulation-

PRO



William F. McIntyre MD PhD FRCPC

August 31, 2025



WF McIntyre MD PhD FRCPC

Disclosures

Speaking:

iRhythm

Consulting:

Atricure

Peer Reviewed Grants and Salary Support:

Heart and Stroke Foundation of Canada

Population Health Research Institute

Canadian Institutes of Health Research



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



European Society
of Cardiology

European Heart Journal (2024) 00, 1–15
<https://doi.org/10.1093/eurheartj/ehae596>

FASTTRACK – CLINICAL RESEARCH

Arrhythmias

William F. McIntyre¹, MD, PhD; Alexander P. Benz², MD, MSc; Nina Becher³, MD; Christopher B. Granger⁴, MD; Lena Rivard⁵, MD, MSc; A. John Camm⁶, MD; A. Marco Alings⁷, MD, PhD; Stuart J. Connolly⁸, MD, MSc; Paulus Kirchhof⁹, MD;

Anticoagulation in device-detected atrial fibrillation with or without vascular disease: a combined analysis of the NOAH-AFNET 6 and ARTESiA trials

Renate B. Schnabel^{1,2,3}, Juan Benezet-Mazuecos⁴, Nina Becher^{1,2}, William F. McIntyre¹, Alexander Fierenz⁶, Shun Fu Lee⁷, Andreas Goette^{8,9}, Dan Atar¹⁰, Emanuele Bertaglia¹¹, Alexander P. Benz^{5,12}, Gregory Chlouverakis¹³, David H. Birnie¹⁴, Wolfgang Dichtl¹⁵, Carina Blomstrom-Lundqvist^{16,17}, A. John Camm¹⁸, Julia W. Erath¹⁹, Emmanuel Simantirakis²⁰, Valentina Kutyifa²¹, Gregory Y. H. Lip^{22,23}, Philippe Mabo²⁴, Elloi Marijon²⁵, Lena Rivard²⁶, Ulrich Schotten^{3,27}, Marco Alings²⁸, Susanne Sehner²⁶, Tobias Toennis^{1,2}, Cecilia Linde²⁹, Panos Vardas^{20,30}, Christopher B. Granger³¹, Antonia Zapf⁶, Renato D. Lopes³², Jeff S. Healey⁵, and Paulus Kirchhof^{1,2,3,33*}

Outcomes and Management of Triggers of Atrial Fibrillation

JACC State-of-the-Art Review

Julian S. Haimovich¹, MD, PhD; Shinwan Kanyo¹, MD, MSc; Ezimamaka Ajulo¹, MD, PhD; Emelia J. Benjamin¹, MD, ScM; Jeffrey S. Healey¹, MD; Paulus Kirchhof¹, MD, PhD; William F. McIntyre¹, MD, PhD; Michiel Rienstra¹, MD, PhD, MHA; Prashanthan Sander¹, MBBS; Renate B. Schnabel¹, MD, PhD; Patrick T. Ellinor¹, MD, PhD; Shaan Khurshid¹, MD, MPH

Efficacy and safety of direct oral anticoagulants in patients with device-detected atrial fibrillation with and without dose reduction criteria: a pooled analysis of ARTESiA and NOAH-AFNET 6

Authors

WF McIntyre¹, N Becher², AP Benz¹, T Toennis², A Goette³, CB Granger⁴, A Fierenz², A Zapf², R Mian¹, RD Lopes⁴, JS Healey¹, P Kirchhof², ¹Population Health Research Institute - Hamilton - Canada, ²University Heart and Vascular Centre Hamburg (UHZ) - Hamburg - Germany, ³Saint Vincenz Hospital Paderborn - Paderborn - Germany, ⁴Duke Clinical Research Institute - Durham - United States of America,

Great Debates: stroke prevention in specific clinical scenarios

31 August from 08:15 to 09:45 Paris(Hall 4) Great Debates Stroke in Atrial Fibrillation

08:15

Device-detected or clinically diagnosed atrial fibrillation: the same decision for oral anticoagulation therapy - pro

Speaker: William McIntyre (Population Health Research Institute - Hamilton, Canada) X WFMMD

Device-detected or clinically diagnosed atrial fibrillation: the same decision for oral anticoagulation therapy - con

Speaker: Paulus Kirchhof (University Heart and Vascular Centre Hamburg (UHZ) - Hamburg, Germany) X UCCS_HH,



Tarragona, Spain
August 2025

OAC for device-detected AF?

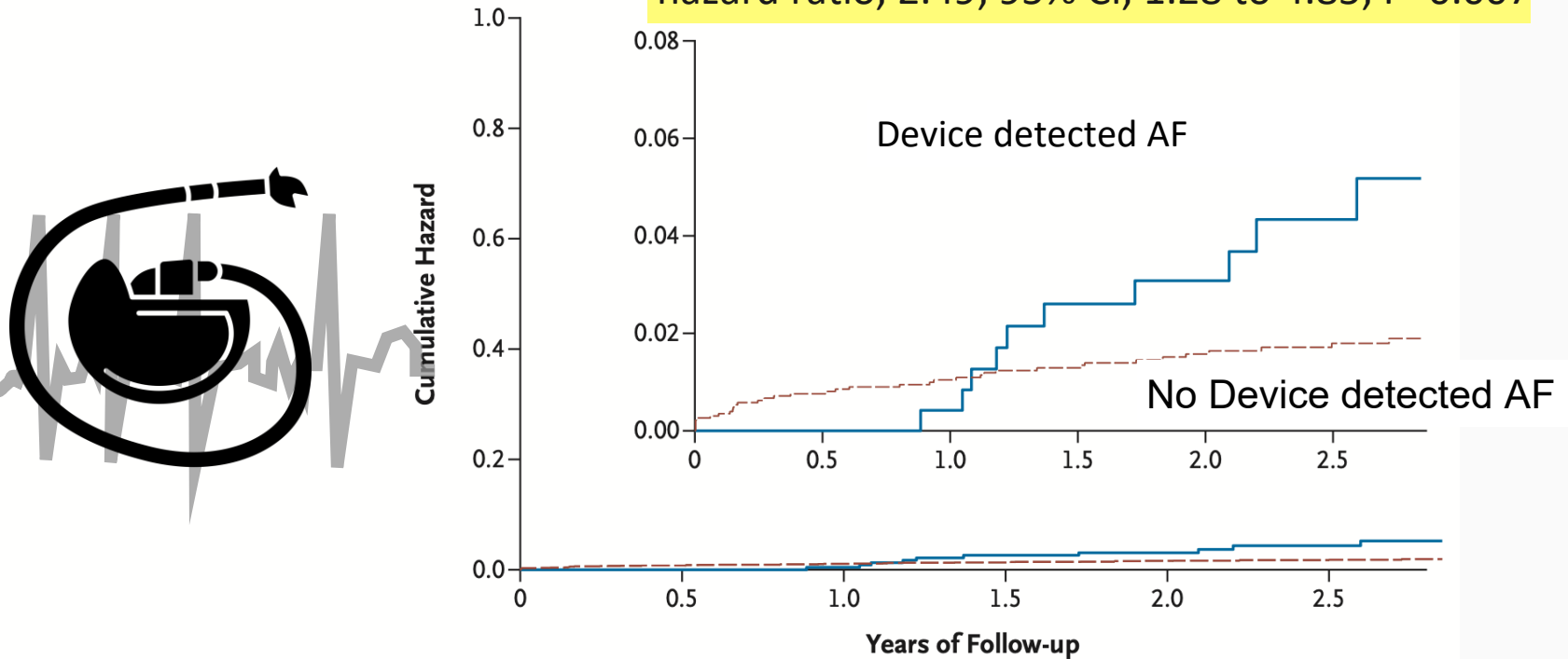
The Issues

1. Are patients with device-detected AF at risk of stroke?
2. Does OAC reduce stroke in these patients?
3. Is the risk of stroke sufficiently high to justify OAC?
4. Is the bleeding risk acceptable?

Device-detected AF increases the risk of stroke

B Risk of Ischemic Stroke or Systemic Embolism

hazard ratio, 2.49; 95% CI, 1.28 to 4.85; P=0.007



No. at Risk

Subclinical atrial tachyarrhythmias present	261	249	238	218	178	122
Subclinical atrial tachyarrhythmias absent	2319	2145	2070	1922	1556	1197

OAC for device-detected AF?

The Issues

1. Are patients with device-detected AF at risk of stroke?

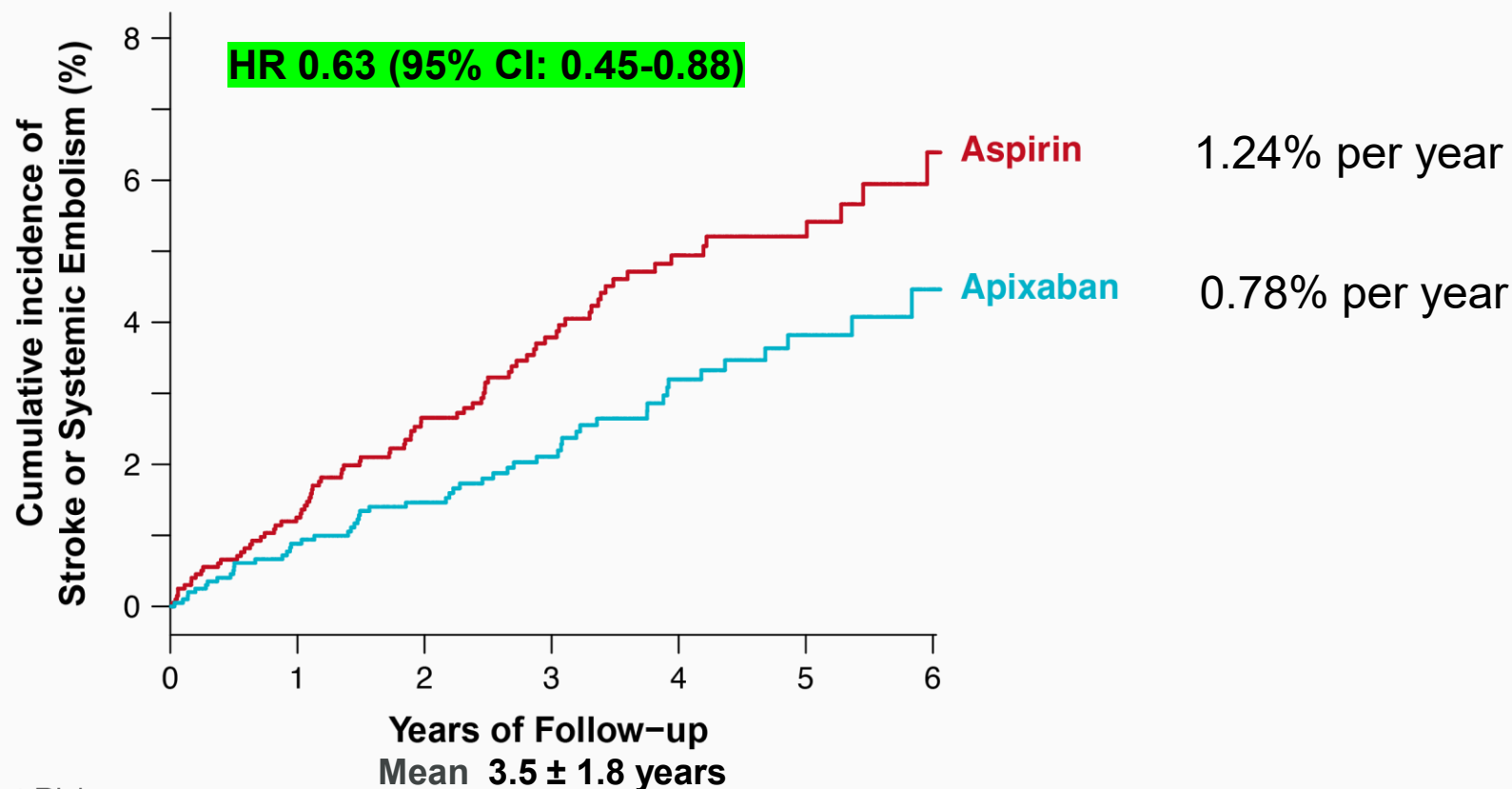
YES

2. Does OAC reduce stroke in these patients?

3. Is the risk of stroke sufficiently high to justify OAC?

4. Is the bleeding risk acceptable?

Apixaban Reduces Stroke in Device-detected AF



No. at Risk

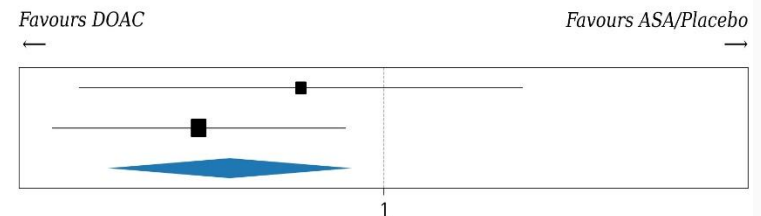
Aspirin	1997	1777	1539	1121	779	468	200
Apixaban	2015	1786	1556	1157	822	474	214



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

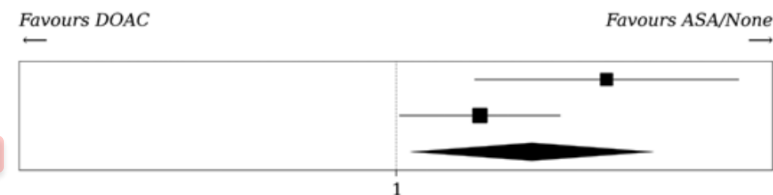
Ischemic Stroke

Study	DOAC	(%)	ASA/Placebo	(%)	Weight	RR [95% CI]
NOAH-AFNET 6	22/1,270	(1.7%)	27/1,266	(2.1%)	30.4%	0.81 [0.47, 1.42]
ARTESiA	45/2,015	(2.2%)	71/1,997	(3.6%)	69.6%	0.63 [0.43, 0.91]
Pooled Estimate	67/3,285	(2.0%)	98/3,263	(3.0%)	$I^2: 0\%$	0.68 [0.5, 0.92]
<small>Mantel-Haenszel, DerSimonian-Laird Random Effects</small>		<small>$p=0.01, z=2.47$ $\tau^2=0.00$</small>		<small>RR: Risk Ratio CI: Confidence Interval</small>		



Major Bleeding

Study	DOAC	(%)	ASA/None	(%)	Weight	RR [95% CI]
NOAH-AFNET 6	53/1,270	(4.2%)	25/1,266	(2.0%)	41.1%	2.11 [1.32, 3.38]
ARTESiA	106/2,015	(5.3%)	78/1,997	(3.9%)	58.9%	1.35 [1.01, 1.79]
Pooled Estimate	159/3,285	(4.8%)	103/3,263	(3.2%)	$I^2: 61\%$	1.62 [1.05, 2.5]
<small>Mantel-Haenszel, DerSimonian-Laird Random Effects</small>		<small>$p=0.03, z=2.18$ $\tau^2=0.06$</small>		<small>RR: Risk Ratio CI: Confidence Interval</small>		



ORIGINAL ARTICLE

Anticoagulation with Edoxaban in Patients with Atrial High-Rate Episodes

P. Kirchhof, T. Toennis, A. Goette, A.J. Camm, H.C. Diener, N. Becher, E. Bertaglia, C. Blomstrom Lundqvist, M. Borlich, A. Brandes, N. Cabanelas, M. Calvert, G. Chlouverakis, G.-A. Dan, J.R. de Groot, W. Dichtl, B. Kravchuk, A. Lubiński, E. Marijon, B. Merkely, L. Mont, A.-K. Ozga, K. Rajappan, A. Sarkozy, D. Scherr, R. Sznajder, V. Velchev, D. Wichterle, S. Sehner, E. Simantirakis, G.Y.H. Lip, P. Vardas, U. Schotten, and A. Zapf, for the NOAH-AFNET 6 Investigators*

The primary efficacy outcome was a composite of:

- *cardiovascular death*
- *stroke*
- *systemic embolism*

In AF Patients, A Minority of Deaths are From DOAC Responsive Conditions

TABLE 2 Descriptive Analysis of Causes of Death as Total Numbers and as Percentage of Total Deaths

Cause of Death	All Patients	DOAC	Warfarin
All-cause death	6,206 (100)	3,579 (100)	2,627 (100)
Vascular death	3,970 (64)	2,297 (64)	1,673 (64)
Cardiac death	2,855 (46)	1,699 (47)	1,156 (44)
Sudden death/dysrhythmia	1,759 (28)	1,044 (29)	715 (27)
Heart failure	922 (15)	547 (15)	375 (14)
Myocardial infarction	174 (3)	108 (3)	66 (3)
Ischemic stroke/SE*	356 (6)	206 (6)	150 (6)
Hemorrhage (all)	350 (6)	148 (4)	202 (8)
Hemorrhagic stroke	202 (3)	77 (2)	125 (5)
Other intracranial hemorrhage	63 (1)	28 (1)	35 (1)
Extracranial hemorrhage	85 (1)	43 (1)	42 (2)
Other vascular death†	409 (7)	244 (7)	165 (6)
Nonvascular death	1,849 (30)	1,103 (31)	746 (28)
Malignancies	706 (11)	441 (12)	265 (10)
Infections	533 (9)	318 (9)	215 (8)
Respiratory	177 (3)	89 (2)	88 (3)
Trauma/accidental	72 (1)	34 (1)	38 (1)
Hepatobiliary/liver failure	17 (0.3)	9 (0.3)	8 (0.3)
All other	344 (6)	212 (6)	132 (5)
Undetermined death	387 (6)	179 (5)	208 (8)

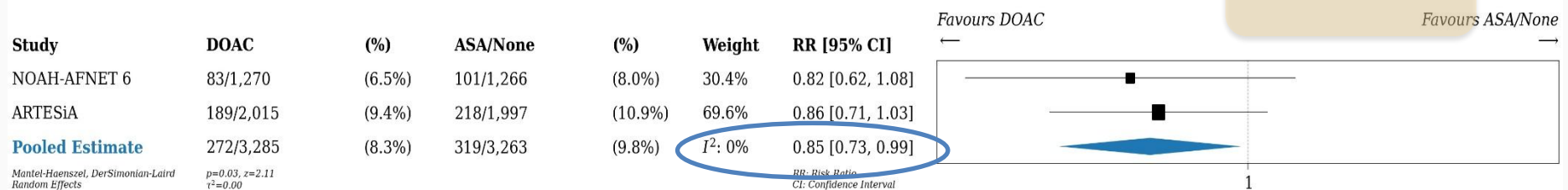
~ 15% of All-cause death
 ~ 23% of Vascular death
 ~ 33% of Cardiac death

Consequence:
 Including Death
 in a trial endpoint
 dilutes the effect of OAC



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

Composite of All-cause Stroke, Peripheral Arterial Embolism, Myocardial Infarction, Pulmonary Embolism or Cardiovascular Death



OAC for device-detected AF?

The Issues

1. Are patients with device-detected AF at risk of stroke?

YES

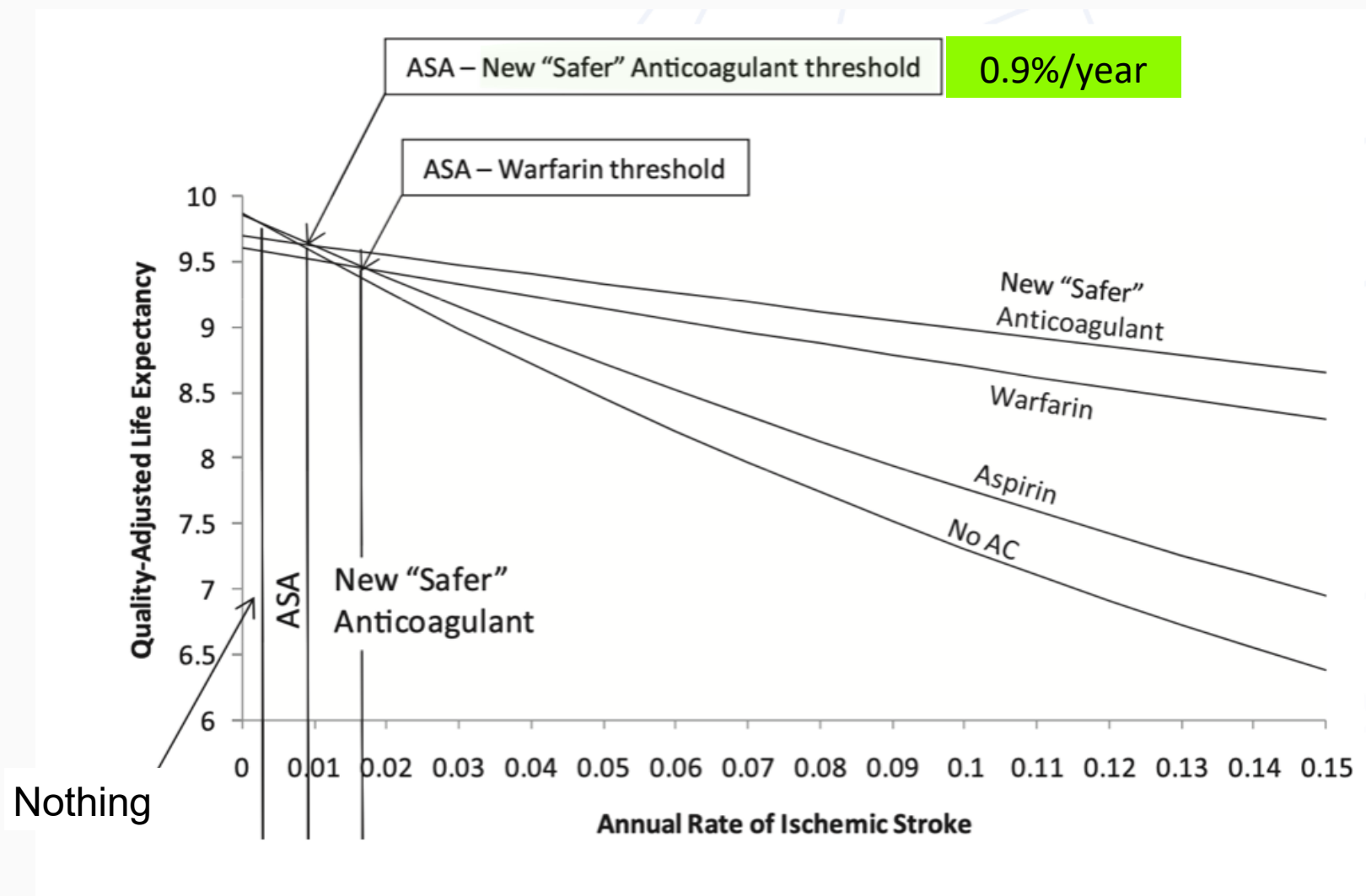
2. Does OAC reduce stroke in these patients?

YES

3. Is the risk of stroke sufficiently high to justify OAC?

4. Is the bleeding risk acceptable?

What annual rate of stroke justifies OAC?



For Clinical AF

Annual Stroke Rates >1%

Warrant Consideration of OAC

Consistent Threshold in Europe and US

Recommendations for Antithrombotic Therapy

Referenced studies that support the recommendations are summarized in the [Online Data Supplement](#).

COR

LOE

RECOMMENDATIONS

1

A

1. For patients with AF and an estimated annual thromboembolic risk of $\geq 2\%$ per year (eg, $\text{CHA}_2\text{DS}_2\text{-VASc}$ score of ≥ 2 in men and ≥ 3 in women), anticoagulation is recommended to prevent stroke and systemic thromboembolism.¹⁻⁷

2a

A

3. For patients with AF and an estimated annual thromboembolic risk of $\geq 1\%$ but $< 2\%$ per year (equivalent to $\text{CHA}_2\text{DS}_2\text{-VASc}$ score of 1 in men and 2 in women), anticoagulation is reasonable to prevent stroke and systemic thromboembolism.^{1,3}

**2023 ACC/AHA/ACCP/HRS Guideline
for the Diagnosis and Management of
Atrial Fibrillation**

For Clinical AF
Annual Stroke Rates >1%
Warrant Consideration of OAC
Consistent Threshold in Europe and US

i.e. $\geq 2\%$ A CHA₂DS₂-VA score of 2 or more is recommended as an indicator of elevated thromboembolic risk for decisions on initiating oral anticoagulation.

I

C

i.e. $\geq 1\%$ A CHA₂DS₂-VA score of 1 should be considered an indicator of elevated thromboembolic risk for decisions on initiating oral anticoagulation.

IIa

C

....following a patient-centred and shared care approach....

2024 ESC Guidelines for the management of atrial fibrillation developed in collaboration with the European Association for Cardio-Thoracic Surgery (EACTS)

The ESC Device-detect AF Recommendation is Not Internally Consistent with the Rest of the Guideline Document

i.e. $\geq 1\%$ A CHA₂DS₂-VA score of 1 should be considered an indicator of elevated thromboembolic risk for decisions on initiating oral anticoagulation.

IIa

C

Direct oral anticoagulant therapy may be considered in patients with asymptomatic device-detected subclinical AF and elevated thromboembolic risk to prevent ischaemic stroke and thromboembolism, excluding patients at high risk of bleeding.^{281,282}

IIb

B

$\geq 1\%$

2024 ESC Guidelines for the management of atrial fibrillation developed in collaboration with the European Association for Cardio-Thoracic Surgery (EACTS)

Stroke Rates in Device-Detected AF Exceed 1%/year

An Identified Important Threshold

Outcome	ARTESiA	Apixaban (N=2015)		Aspirin (N=1997)		Hazard Ratio (95% CI)	P Value
		<i>no. of patients with event</i>	<i>%/patient-yr</i>	<i>no. of patients with event</i>	<i>%/patient-yr</i>		
Stroke or systemic embolism		55	0.78	86	1.24	0.63 (0.45–0.88)	0.007
Stroke		55	0.78	84	1.21	0.64 (0.46–0.90)	
Ischemic or unknown type†		45	0.64	71	1.02	0.62 (0.43–0.91)	
Hemorrhagic		10	0.14	13	0.18	0.76 (0.33–1.73)	

≥1%

Outcome	NOAH-AFNET 6	Edoxaban (N=1270)	Placebo (N=1266)	Adjusted Hazard Ratio (95% CI)
		no. of patients with event/patient-yr (% per patient-yr)		
Primary composite efficacy outcome†		83/2557 (3.2)	101/2495 (4.0)	0.81 (0.60 to 1.08)‡
Ischemic stroke		22/2573 (0.9)	27/2519 (1.1)	0.79 (0.45 to 1.39)
Systemic embolism		14/2579 (0.5)	28/2515 (1.1)	0.51 (0.27 to 0.96)

≥1%

OAC for device-detected AF?

The Issues

1. Are patients with device-detected AF at risk of stroke?

YES

2. Does OAC reduce stroke in these patients?

YES

3. Is the risk of stroke sufficiently high to justify OAC?

YES

4. Is the bleeding risk acceptable?

ARTESiA Showed a Reduction in Fatal/Disabling Stroke at the Expense of Non-fatal Major Bleeds

	Apixaban (N = 2015)	Aspirin (N = 1997)	Hazard Ratio (95% CI)
Total Stroke	55 (0.78)	84 (1.21)	0.64 (0.46-0.90)
Modified Rankin Score 0-2	31 (0.44)	45 (0.65)	0.68 (0.43-1.07)
Modified Rankin Score 3-6	19 (0.27)	37 (0.53)	0.51 (0.29-0.88)
Major bleeding (ISTH)	106 (1.53)	78 (1.12)	1.36 (1.01-1.82)

Major Bleeding Events	Apixaban (N = 2015)	Aspirin (N = 1997)
<i>Clinical course</i>	n (% of major bleeds)	
1 - conservative measures	21 (22.6)	16 (32.7)
2 - supportive care, transfusion	54 (58.1)	22 (44.9)
3 - immediate measures needed to avoid death	9 (9.7)	4 (8.2)
4 - death unavoidable	3 (3.2)	6 (12.2)

Compared to Clinical AF, Device-Detected AF has *Similar Stroke to Bleed Ratio on OAC* *Lower Annual Rates of Bleeding on OAC*

Table 3 Selected outcomes of patients enrolled in trials of antithrombotic therapy in patients with atrial fibrillation—expressed as event rate per 100 patient-years

Clinical AF + risk factors	RE-LY ^{32a}		ROCKET AF ^{34b}	
	Dabigatran 150 mg bid	Warfarin (target INR 2.0-3.0)	Rivaroxaban 20 (15) mg daily ^c	Warfarin (target INR 2.0-3.0)
Ischaemic stroke	0.9	1.2	1.3	1.4
Major bleeding	3.1	3.4	3.6	3.4
Intracranial haemorrhage	0.3	0.7	0.5	0.7
Death	3.6	4.1	4.5	4.9
	ARISTOTLE ³³		ENGAGE AF-TIMI 48 ³⁵	
	Apixaban 5 (2.5) mg bid ^c	Warfarin (target INR 2.0-3.0)	Edoxaban 60 (30) mg daily ^c	Warfarin (target INR 2.0-3.0)
Ischaemic stroke	1.0	1.1	1.3	1.3
Major bleeding	2.1	3.1	2.8	3.4
Intracranial haemorrhage	0.3	0.8	0.4	0.9
Death	3.5	3.9	4.0	4.4
Device-detected AF + risk factors	NOAH-AFNET 6 ^{39a}		ARTESiA ⁴⁰	
	Edoxaban 60 (30) mg daily ^c	Aspirin 100 mg daily/placebo	Apixaban 5 (2.5) mg bid ^c	Aspirin 81 mg daily
Ischaemic stroke	0.8	1.0	0.6	1.0
Major bleeding ^a	2.3	1.2	1.7	0.9
Intracranial haemorrhage ^a	Not reported		0.2	0.3
Death	4.7	4.3	5.1	4.8

Many Patients Value Stroke Prevention Over Bleeding Risk

“Patients at high risk for AF placed more value on the avoidance of stroke and less value on the avoidance of bleeding than did physicians who treat patients with AF.”

“Patients were willing to endure 4.4 major bleeds in order to prevent one stroke.”

Devereaux PJ et al BMJ 2001;323:1–7

SA LaHaye et al Thromb Haemost 2014 111(3):465-73.

OAC for device-detected AF?

The Issues

1. Are patients with device-detected AF at risk of stroke?

YES - Consistent Evidence

2. Does OAC reduce stroke in these patients?

YES - High Quality Evidence from 2 Concordant RCTs

3. Is the risk of stroke sufficiently high to justify OAC?

YES - Baseline risk $>1\%/yr$,
identified as meaningful by patients, guidelines and Markov models

4. Is the bleeding risk acceptable?

YES - OAC stops fatal/disabling strokes at expense of non-fatal bleeds
Patients tend to value stroke prevention over bleeding risk
Same Stroke/Bleed Ratio as clinical AF

If you only want to initiate OAC based on Class I Recommendations *i.e. Annual Stroke Risk $\geq 2\%$*

i.e. $\geq 2\%$ A CHA₂DS₂-VA score of 2 or more is recommended as an indicator of elevated thromboembolic risk for decisions on initiating oral anticoagulation.



ESC 2024 AF GLs

Recommendations for Antithrombotic Therapy

Referenced studies that support the recommendations are summarized in the [Online Data Supplement](#).

COR	LOE	RECOMMENDATIONS
1	A	1. For patients with AF and an estimated annual thromboembolic risk of $\geq 2\%$ per year (eg, CHA ₂ DS ₂ -VASc score of ≥ 2 in men and ≥ 3 in women), anticoagulation is recommended to prevent stroke and systemic thromboembolism. ¹⁻⁷

AHA/ACC 2023 AF GLs

Patients with Device-Detected AF *And an Annual Stroke Risk > ~2%*

1. Prior Stroke: 3.4%/year on Aspirin

Shoamanesh A et al Lancet Neurol 2025

2. CHA₂DS₂-VASc Score > 4: Risk 2.3%/year on Aspirin

Lopes et al JACC 2024

3. Implanted Cardiac Monitors: 2.6%/year on Aspirin

Xing L et al Heart Rhythm 2025 in Press

4. Meet DOAC Dose Reduction Criteria: 2.0%/year on Aspirin/Placebo

McIntyre et al ESC Congress Aug 29 2025

5. Vascular Disease: 1.9%/year on Aspirin/Placebo

Schnabel R et al European Heart Journal 2024

Assessing Net Benefit Cost-effectiveness of Apixaban for Device-Detected AF

Lifetime Cost



	Canada	United Kingdom	Germany		United States	
Costs	Dominant Strategy	Dominant Strategy	\$4937	\$7560	\$9314	\$18424
Incremental Cost			\$2623		\$9110	
Incremental Cost (Discounted)			\$2319		\$8032	
QALYs			4.888	4.995	4.888	4.995
Incremental QALYs			0.107		0.107	
Incremental QALYs (Discounted)			0.086		0.086	
ICER			\$24,514/QALY		\$85,140/QALY	
ICER (Discounted)			\$26,965/QALY		\$93,395/QALY	

- cost-effective

- cost-effective at \$4.35/day
- cost-saving at \$3.59/day

Sandhu et al ESC Congress Aug 31 2025
Simultaneous Publication Europace Lamy et al

Device-Detected AF: The Same OAC Decision As for Clinical AF

1. Baseline risk/benefit of OAC could be acceptable to anyone
 - Worth discussing with every patient (~ Class IIa)
2. Subgroups at high risk ($\geq 2.0\%$ annual) of stroke (~ Class I)
 - Prior Stroke
 - CHA₂DS₂-VASc Score > 4
 - Implantable Cardiac Monitors
 - Meeting Dose Reduction criteria
 - Vascular disease

ESC TV Today - Season 3 - Episode 22

Oral anticoagulation in afib - The smartwatch ECG

Oral Anticoagulation in Atrial Fibrillation: FAQ

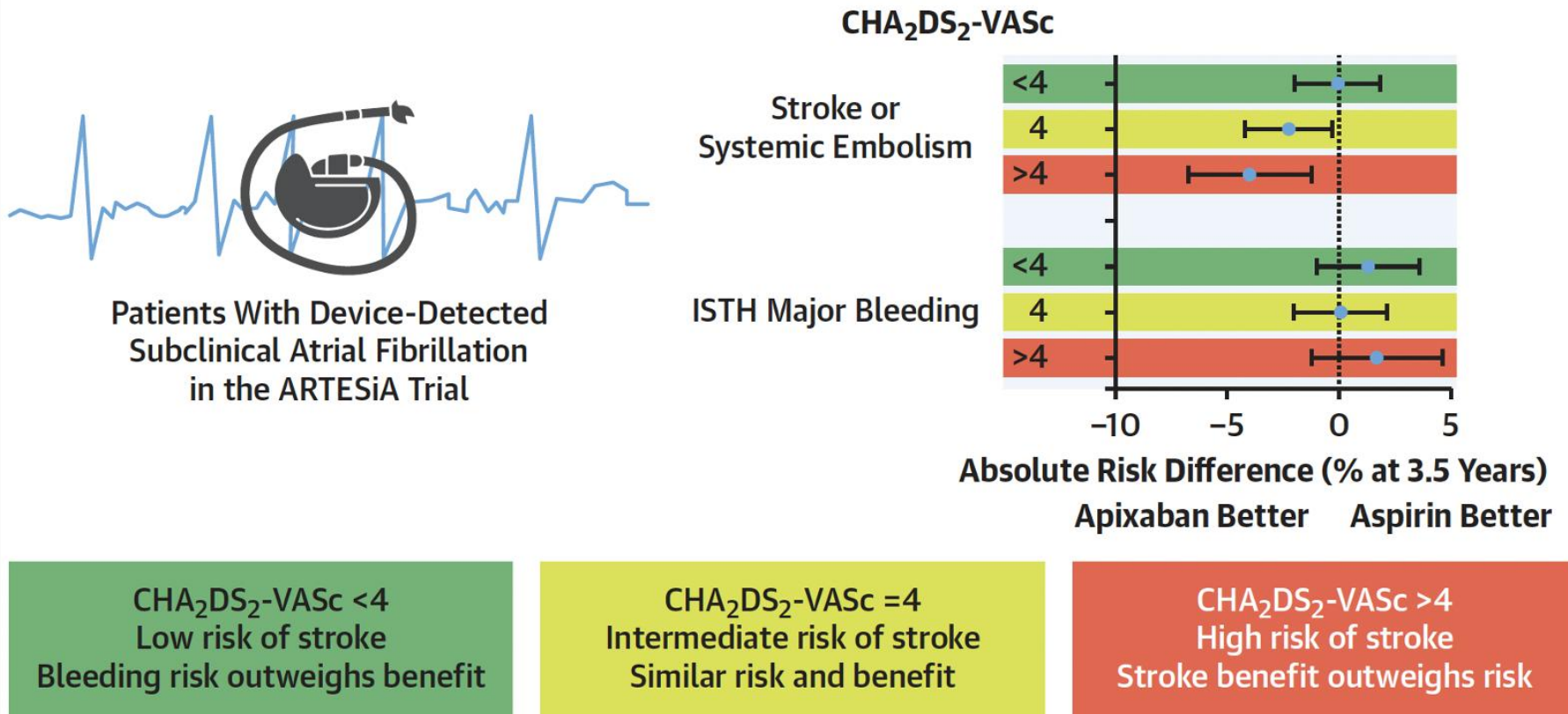


I'm now delighted to be joined by Paulus Kirchhof,



Subgroups of Patients with Device-detected AF With a High Baseline Risk of Stroke

CHA₂DS₂-VASc Score > 4: 2.25%/year on Aspirin

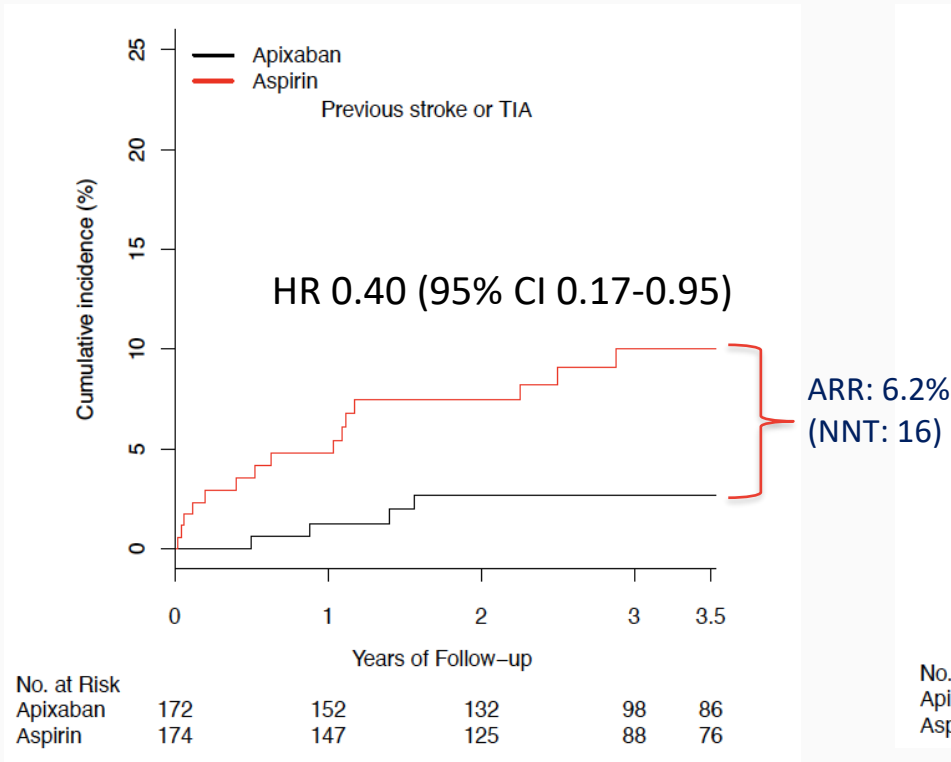


Lopes RD, et al. J Am Coll Cardiol. 2024;84(4):354-364.

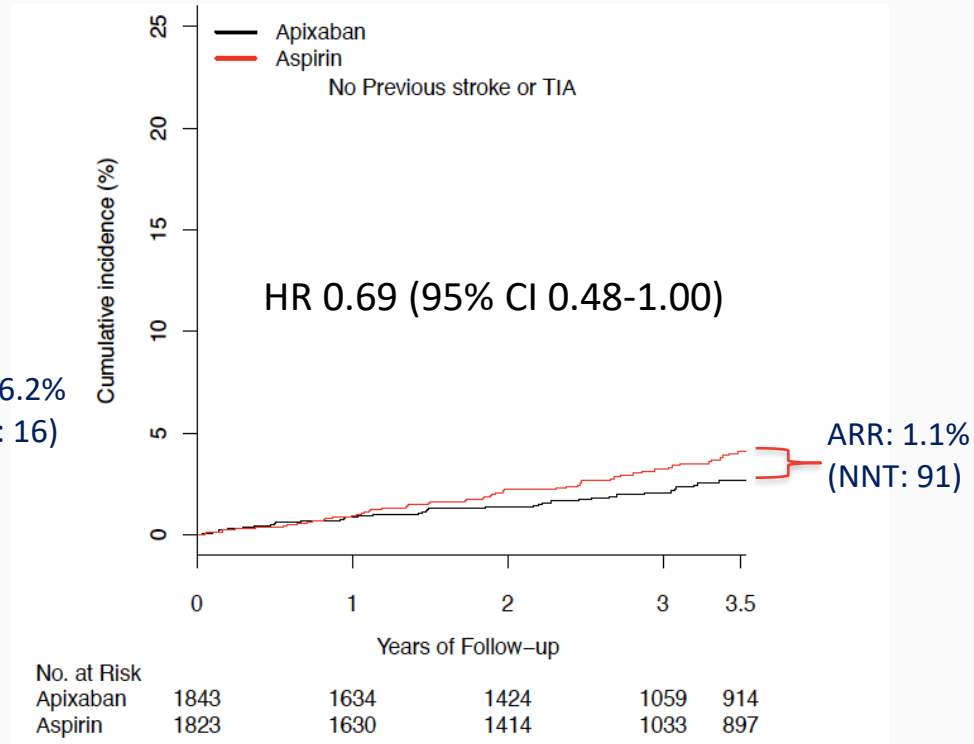
Subgroups of Patients with Device-detected AF With a High Baseline Risk of Stroke

Prior Stroke: 3.4%/year on Aspirin

Patients with Previous stroke or TIA (n=346)



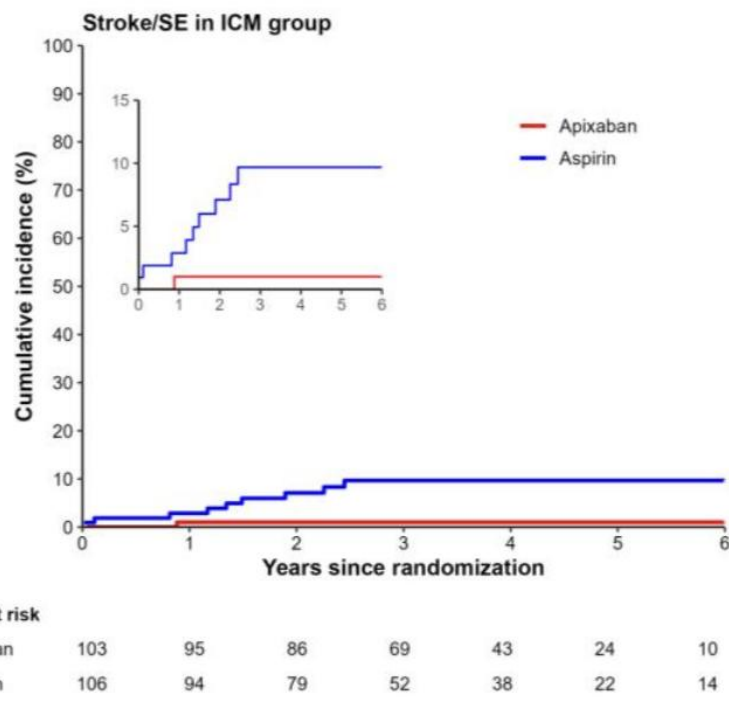
No Previous stroke or TIA (n=3666)



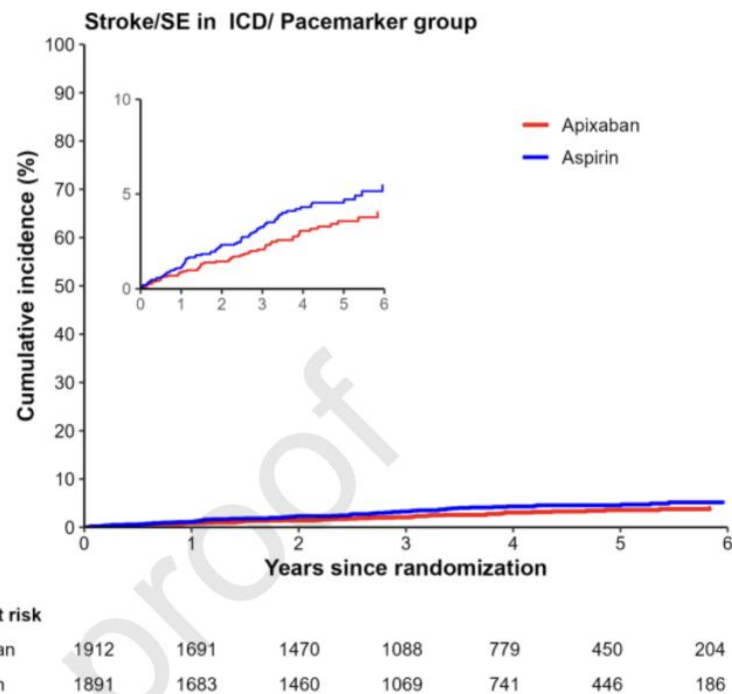
P-interaction for absolute risk =0.03

Subgroups of Patients with Device-detected AF With a High Baseline Risk of Stroke

Implanted Cardiac Monitors: 2.6%/year on Aspirin



25% with prior stroke



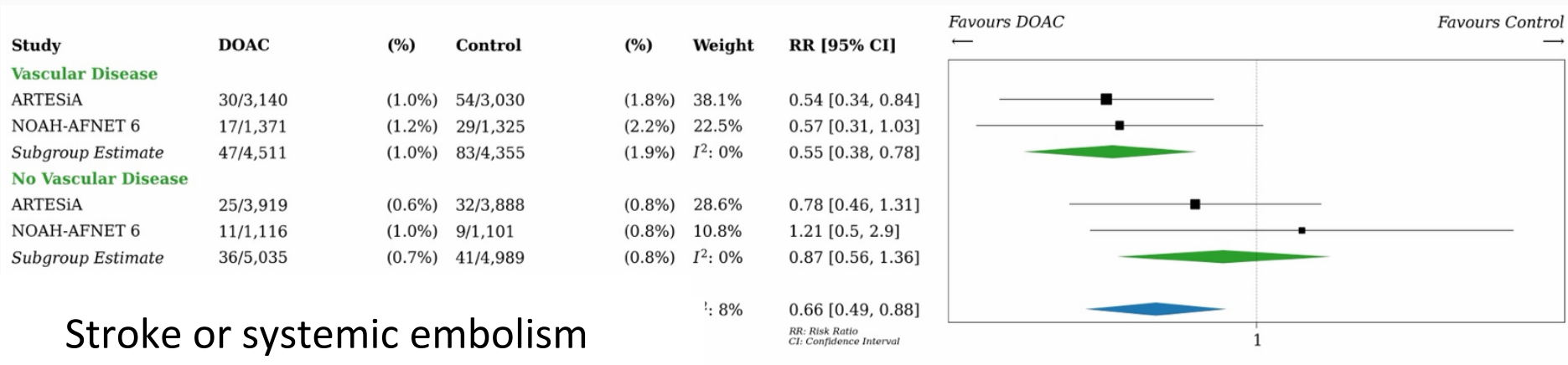
9% with prior stroke

P interaction for absolute risk =0.002

Xing L et al Heart Rhythm 2025 in Press

Subgroups of Patients with Device-detected AF With a High Baseline Risk of Stroke

Vascular Disease: 1.9%/year on Aspirin/Placebo



Incidence Rate Ratio

$p_{\text{interaction}} = 0.13$

Subgroups of Patients with Device-detected AF With a High Baseline Risk of Stroke

Meeting Dose Reduction Criteria: 2.0%/year on Aspirin/Placebo

Composite of All-cause Stroke or Systemic Embolism According to Trial's Own Dose Reduction Criteria



Stroke or systemic embolism

Incidence Rate Ratio

$p_{\text{interaction}}=0.36$



ESC

European Society
of CardiologyEuropean Heart Journal (2024) 00, 1–10
<https://doi.org/10.1093/eurheartj/ehae365>

GREAT DEBATE

Arrhythmias

Great debate: device-detected subclinical atrial fibrillation should be treated like clinical atrial fibrillation

Prashanthan Sanders ^{1*}, Emma Svennberg ², Søren Z. Dietz ³, Harry J. G. M. Crijns ⁴, Pier D. Lambiase ⁵, Giuseppe Boriani ⁶ and Isabelle C. Van Gelder ⁷ **Viewpoint**

April 8, 2024

Toward More Personalized Management of Device-Detected Atrial Fibrillation

James E. Siegler, MD¹; Luciano A. Sposato, MD, MBA²; Shadi Yaghi, MD³

» Author Affiliations

JAMA Neurol. 2024;81(6):573–574. doi:10.1001/jamaneurol.2024.0673



Contents lists available at ScienceDirect

European Journal of Internal Medicine

journal homepage: www.elsevier.com/locate/ejim

Clinical Insights

Detection of subclinical atrial fibrillation with cardiac implanted electronic devices: What decision making on anticoagulation after the NOAH and ARTESiA trials?*

Luciano A. Sposato^{a,b},Journal of
Clinical Medicine

Opinion

Subclinical Atrial Fibrillation: To Anticoagulate or Not?

Sharath Kommu ^{1,2,*} and Param P. Sharma ³

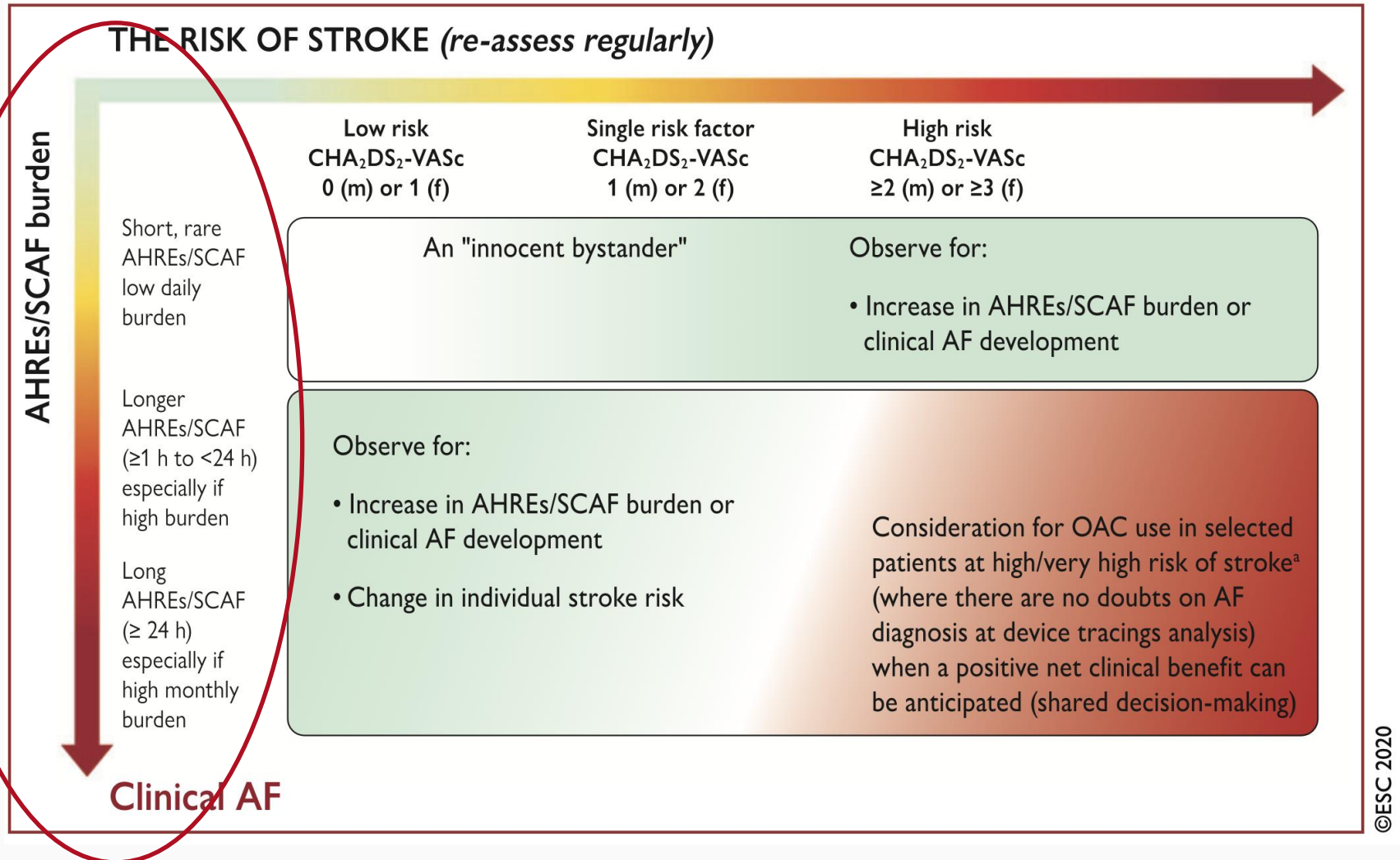
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Should Patients with Subclinical Atrial Fibrillation Receive Anticoagulation?

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AF Duration and CHA₂DS₂-VASc: Roles in risk stratification?





Canadian Institutes
of Health Research

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en santé du Canada

PROTECTED WHEN
COMPLETED

Application Details

Funding Opportunity:

Project Grant: Fall 2024 and Spring 2025 (2024-09-11)

Applicant:

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Participant Type

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New/Early Career Investigator

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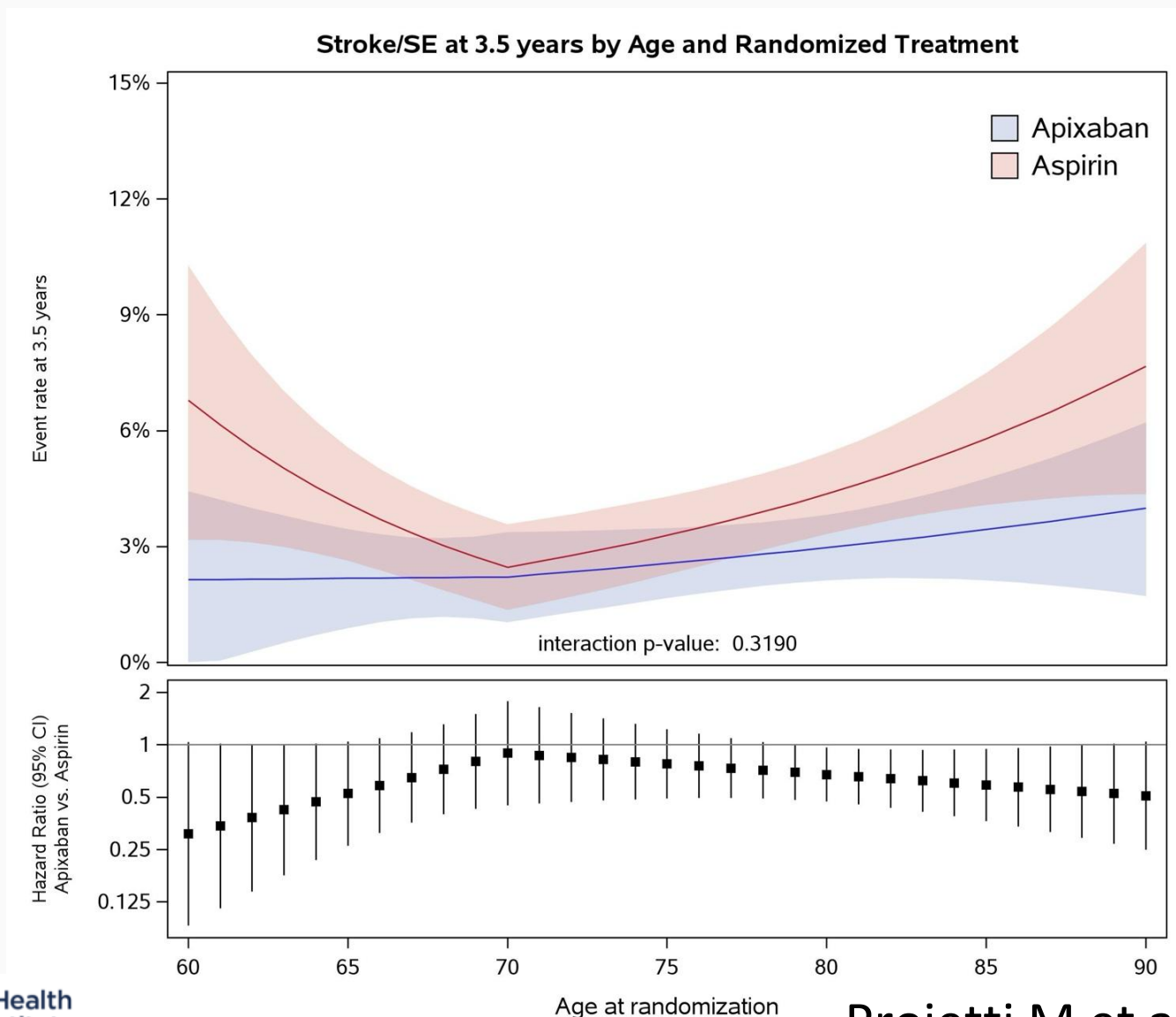
Title:

An Individual Participant Data Meta-Analysis of Two Randomized Controlled Trials Assessing Oral Anticoagulation for Device-detected Atrial Fibrillation: Apixaban for the Reduction of Thrombo-Embolism in Patients With Device-Detected Sub-Clinical Atrial Fibrillation (ARTESiA) and Non-vitamin K antagonist Oral anticoagulants in patients with Atrial High rate episodes (NOAH AFNET 6) (ARTESiA-NOAH IPDMA)

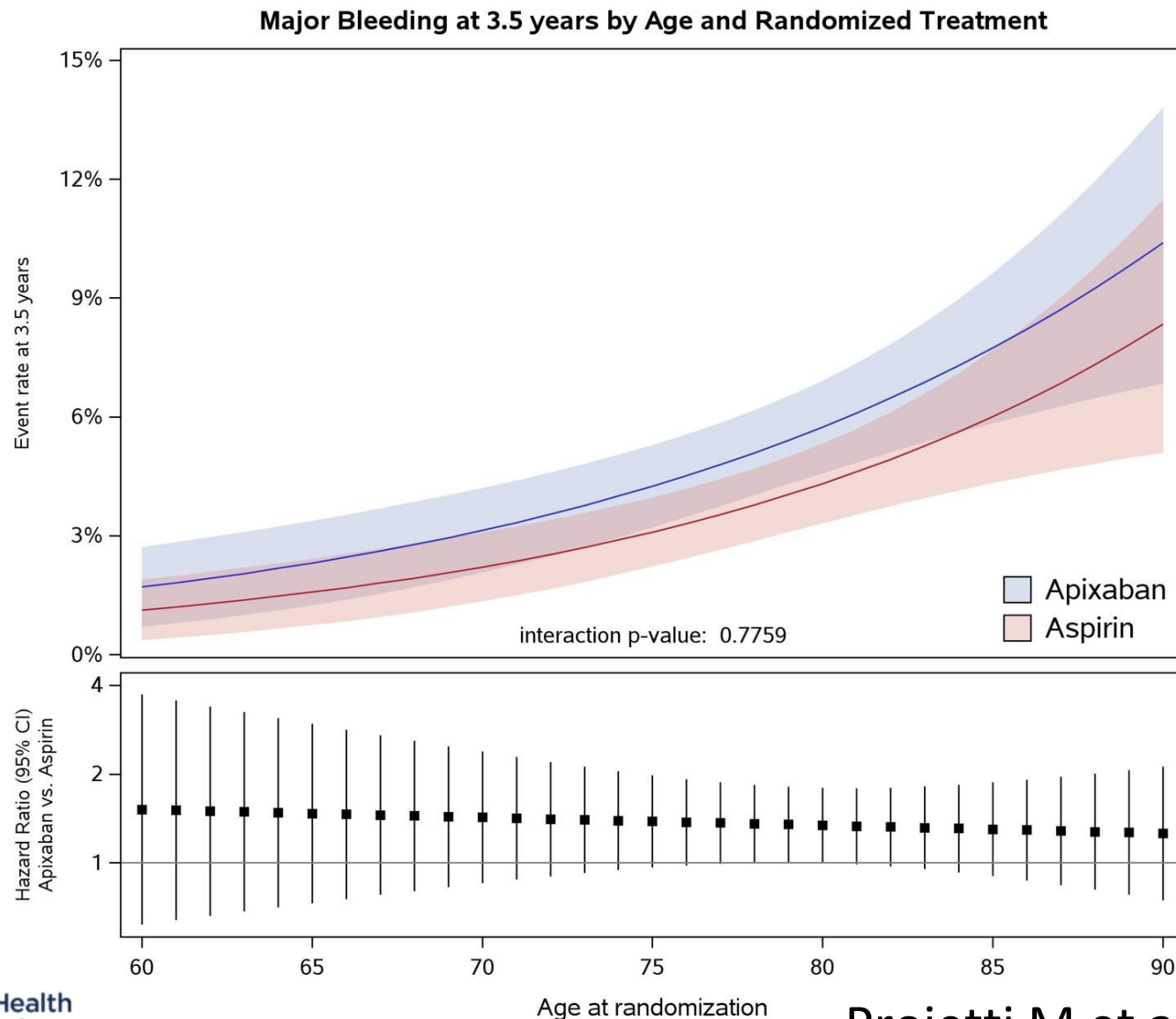


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SCAF-Associated Stroke Risk Increases with Age: The Treatment Effect is Consistent

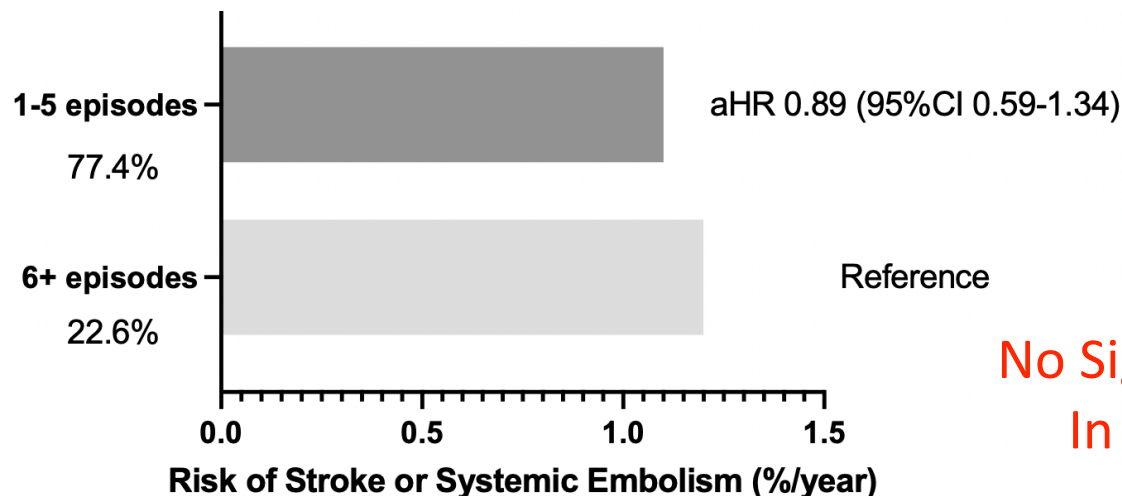
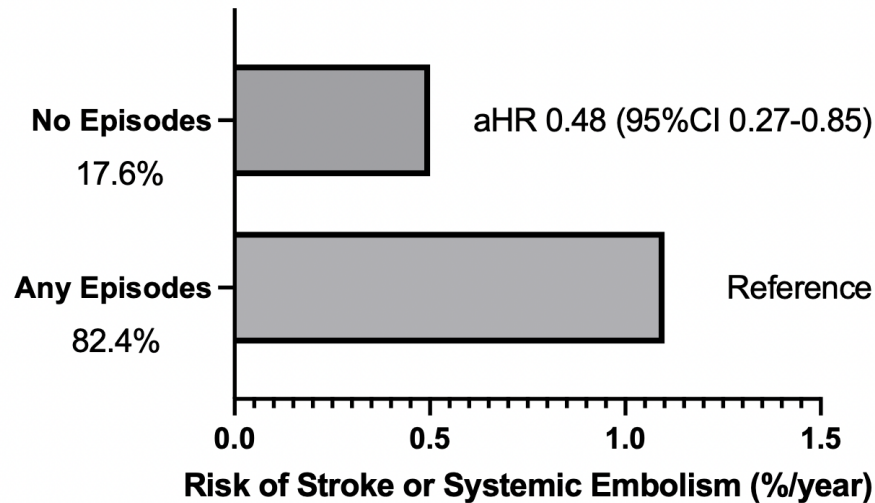


SCAF-Associated Bleed Risk Increases with Age: The Treatment Effect is Consistent



Proietti M et al ESC 2024

Absolute Risk: Subclinical AF Frequency

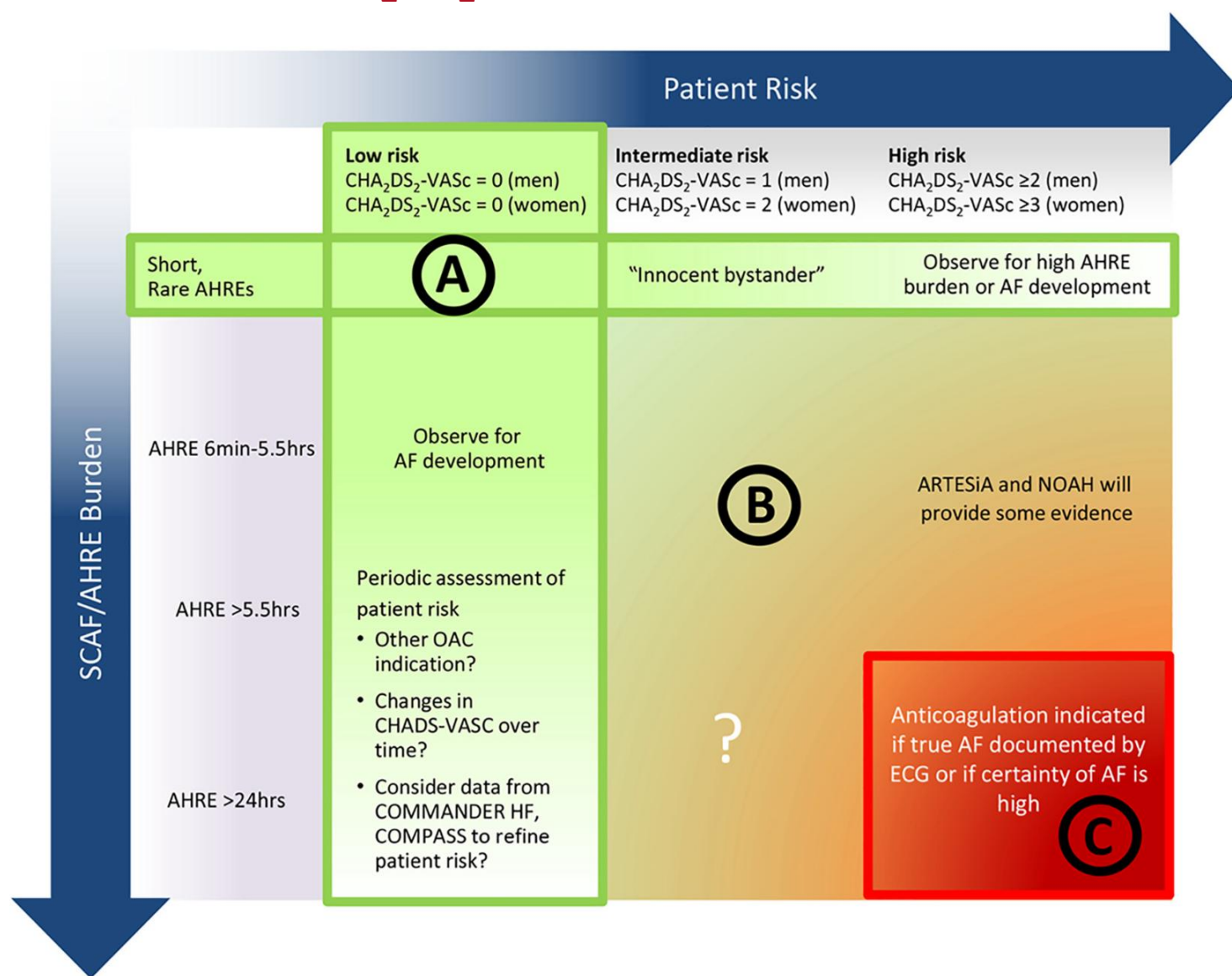


No Significant Difference
In Treatment Effect

Stroke and Bleeding in ARTESiA patients who had SCAF Progression (observational)

	Oral Anticoagulation		Aspirin	
	<u>Open-label</u> <i>Transitioned following progression</i>	<u>Blinded</u> <i>Continued on Blinded Apixaban following progression</i>	<i>Continued on Blinded Aspirin following progression</i>	Relative difference on Aspirin
Stroke/ S ystemic Embolism	14/678 0.84% /pt-year	5/281 0.81%/pt-year	8/252 1.42% /pt-year	+ 71.1%
	Overall 19/959 0.83 %/pt-year			
Major Bleeding	20/678 1.21% /pt-year	11/281 1.82% /pt-year	8/252 1.44% /pt-year	+4.3%
	Overall 31/959 1.38 % /pt-year			

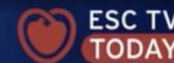
AF Duration and CHA₂DS₂-VASc: Roles in risk stratification?



ESC TV Today - Season 3 - Episode 22

Oral anticoagulation in afib - The smartwatch ECG

Oral Anticoagulation in Atrial Fibrillation: FAQ



I'm now delighted to be joined by Paulus Kirchhof,

Device-Detected AF: The Same OAC Decision As for Clinical AF

1. Baseline risk/benefit of OAC could be acceptable to anyone
 - Worth discussing with every patient (~ Class IIa)
2. Subgroups at high risk ($\geq 2.0\%$ annual) of stroke (~ Class I)
 - Prior Stroke
 - CHA₂DS₂-VASc Score > 4
 - Implantable Cardiac Monitors
 - Meeting Dose Reduction criteria
 - Vascular disease