Apixaban o Warfarin e Aspirina o Placebo dopo sindrome coronarica acuta o angioplastica percutanea nei pazienti con fibrillazione atriale e storia di pregresso ictus ischemico, attacco ischemico transitorio o evento tromboembolico

Analisi post hoc del trial AUGUSTUS

Background

- Recent trials and meta-analyses demonstrated the benefit of a dual pathway strategy with a P2Y12 inhibitor coupled with an oral anticoagulant in patients with atrial fibrillation and acute coronary syndrome and/or recent percutaneous coronary intervention.
- In the AUGUSTUS trial apixaban resulted in less bleeding and fewer hospitalizations than vitamin K antagonist (VKA), and aspirin resulted in more bleeding than placebo.
- Patients with history of stroke, transient ischemic attack (TIA) or thromboembolism (TE) may be at increased risk for both ischemic and bleeding risk.

Apixaban or Warfarin and Aspirin or Placebo After Acute Coronary Syndrome or Percutaneous Coronary Intervention in Patients With Atrial Fibrillation and Prior Stroke A Post Hoc Analysis From the AUGUSTUS Trial

M. Cecilia Bahit, MD; Amit N. Vora, MD, MPH; Zhuokai Li, PhD; Daniel M. Wojdyla, MS; Laine Thomas, PhD; Shaun G. Goodman, MD, MSc; Ronald Aronson, MD; J. Dedrick Jordan, MD, PhD; Brad J. Kolls, MD, PhD; Keith E. Dombrowski, MD; Dragos Vinereanu, MD, PhD; Sigrun Halvorsen, MD, PhD; Otavio Berwanger, MD, PhD; Stephan Windecker, MD; Roxana Mehran, MD; Christopher B. Granger, MD; John H. Alexander, MD, MHS; Renato D. Lopes, MD, MHS, PhD

Aim

 To determine the efficacy and safety of apixaban or VKA and aspirin or placebo according to prior stroke, transient ischemic attack, or thromboembolism.

Methods

- In this prospective, multicenter, 2-by-2 factorial, randomized clinical trial, post hoc parallel analyses were performed to compare randomized treatment regimens according to presence or absence of prior stroke/TIA/TE using Cox proportional hazards models.
- Patients with AF, recent ACS or PCI, and planned use of P2Y12 inhibitors for 6 months or longer were included; 33 patients with missing data about prior stroke/TIA/TE were excluded.

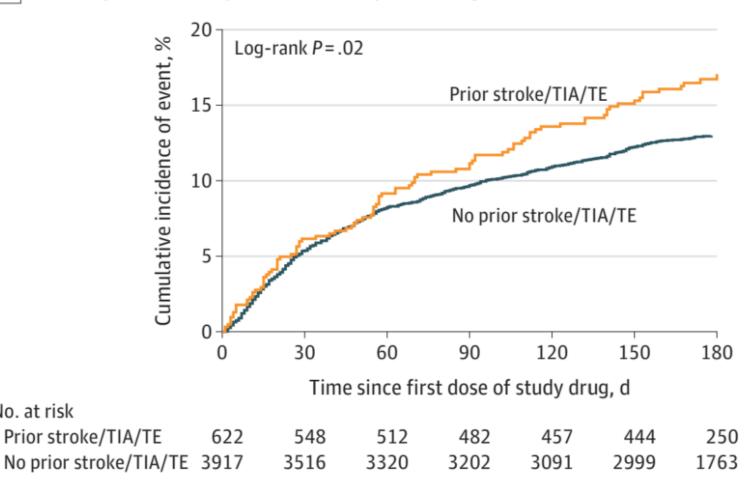
Patients baseline characteristics

	No./total No. (%)			
	Overall (n = 4581)	Prior stroke/TIA/TE (n = 633)	No prior stroke/TIA/TE (n = 3948)	P value
Age, median (IQR), y	71 (64-77)	72 (66-78)	70 (64-77)	<.001
Female sex	1329/4581 (29.0)	183/633 (28.9)	1146/3948 (29.0)	.95
Male sex	3252/4581 (71.0)	450/633 (71.1)	2802/3948 (71.0)	
Race and ethnicity ^a				.17
American Indian and Alaska Native	16/4524 (0.4)	3/624 (0.5)	13/3900 (0.3)	
Asian	140/4524 (3.1)	20/624 (3.2)	120/3900 (3.1)	
Black	59/4524 (1.3)	14/624 (2.2)	45/3900 (1.2)	
White	4152/4524 (91.8)	570/624 (91.3)	3582/3900 (91.8)	
Other	157/4524 (3.5)	17/624 (2.7)	140/3900 (3.6)	
Serum creatinine, mg/dL				.61
<1.5	4128/4504 (91.7)	565/620 (91.1)	3563/3884 (91.7)	
≥1.5	376/4504 (8.3)	55/620 (8.9)	321/3884 (8.3)	
CHA ₂ DS ₂ -VASc score, mean (SD)	3.9 (1.6)	5.9 (1.4)	3.6 (1.3)	<.001
HAS-BLED score, mean (SD)	2.9 (0.9)	3.7 (1.0)	2.7 (0.9)	<.001
Prior bleeding	50/4561 (1.1)	16/632 (2.5)	34/3929 (0.9)	<.001
Hypertension leading to medication use	4073/4581 (88.9)	576/633 (91.0)	3497/3948 (88.6)	.07
Heart failure	1973/4581 (43.1)	301/633 (47.6)	1672/3948 (42.4)	.01
Diabetes	1678/4581 (36.6)	264/633 (41.7)	1414/3948 (35.8)	.004
Concomitant P2Y12 inhibitor at randomization				.09
Clopidogrel	4142/4469 (92.7)	557/615 (90.6)	3585/3854 (93.0)	
Prasugrel	49/4469 (1.1)	8/615 (1.3)	41/3854 (1.1)	
Ticagrelor	278/4469 (6.2)	50/615 (8.1)	228/3854 (5.9)	
Previous use of oral anticoagulant	2247/4581 (49.1)	344/633 (54.3)	1903/3948 (48.2)	.004
Qualifying index event				.38
ACS and PCI	1705/4564 (37.4)	222/629 (35.3)	1483/3935 (37.7)	
Medically managed ACS	1095/4564 (24.0)	163/629 (25.9)	932/3935 (23.7)	
Elective PCI	1764/4564 (38.7)	244/629 (38.8)	1520/3935 (38.6)	
No. of days from ACS or PCI to randomization, mean (SD)	6.6 (4.2)	7.0 (4.2)	6.6 (4.2)	.006
Reduced-dose apixaban (2.5 mg) in patients randomized to receive apixaban	227/2274 (10.0)	37/324 (11.4)	190/1950 (9.7)	.35

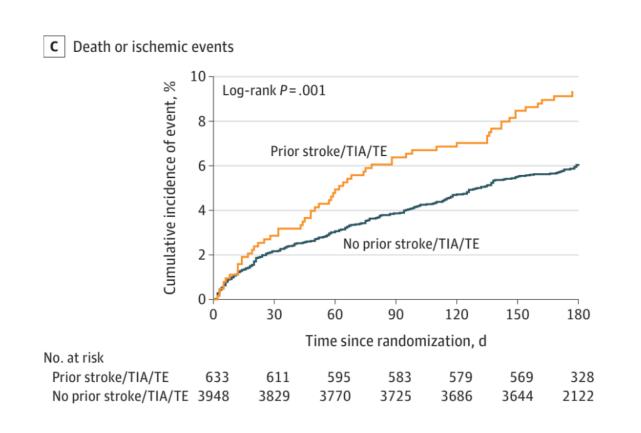
Kaplan-Meier curves for bleeding events

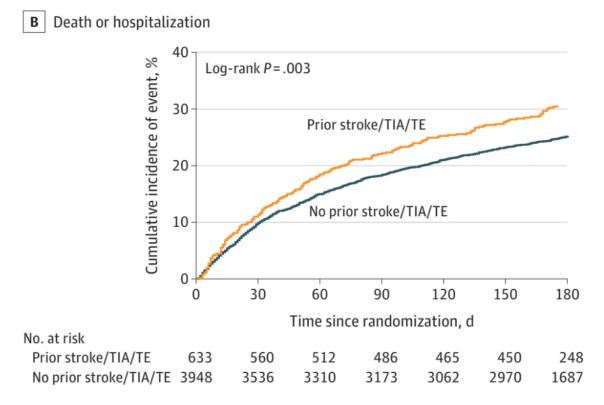
ISTH major or clinically relevant nonmajor bleeding

No. at risk

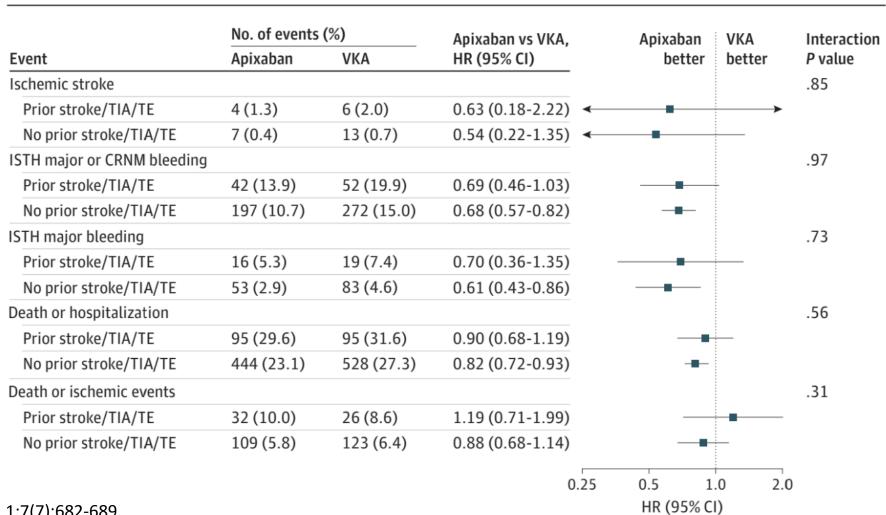


Kaplan-Meier curves for death, hospitalization and ischemic events

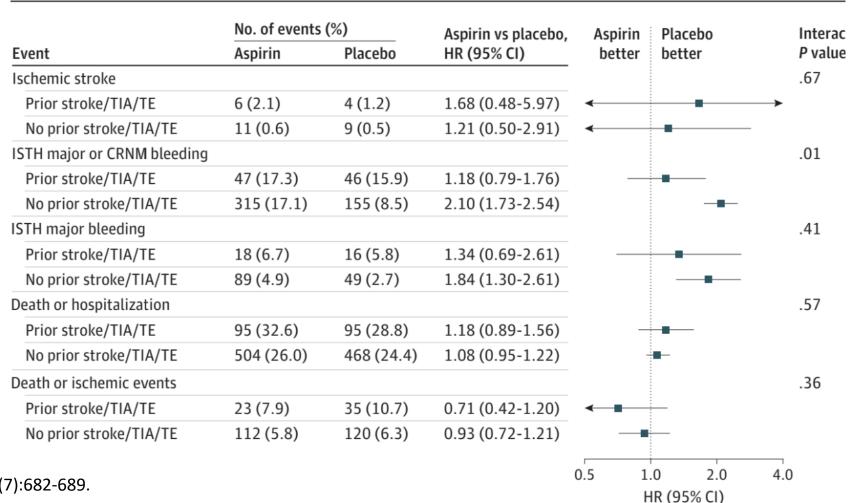




Treatment effect of apixaban vs VKA



Treatment effect of aspirin vs placebo



Only aggregate of stroke/TIA/TE, not individual components.

Limitations

Ethnic and racial minority groups were underrepresented.

Post hoc analysis.

The safety and efficacy of apixaban compared with VKA was consistent with the AUGUSTUS findings, irrespective of prior stroke/TIA/TE.

Conclusions

Aspirin increased major or CRNM bleeding, particularly in patients without prior stroke/TIA/TE.

Although aspirin may have some benefit in patients with prior stroke, our findings support the use of apixaban and a P2Y12 inhibitor without aspirin for the majority of patients with AF and ACS and/or PCI, regardless of prior stroke/TIA/TE status.