

Sfatare i miti sul trattamento anticoagulante nel paziente anziano

I doac sono tutti uguali?

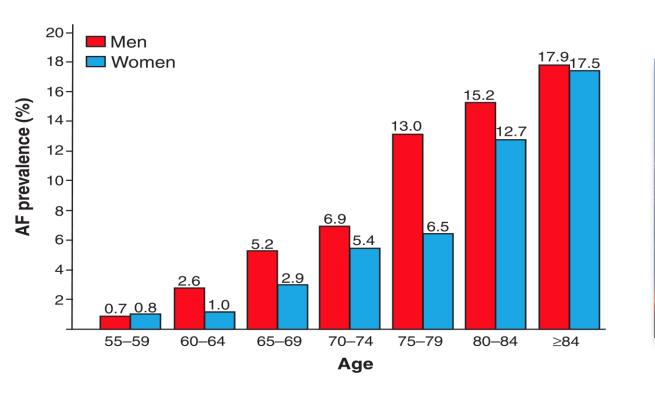
Giovambattista Desideri UO Geriatria e Lungodegenza Dipartimento MESVA Università degli Studi di L'Aquila

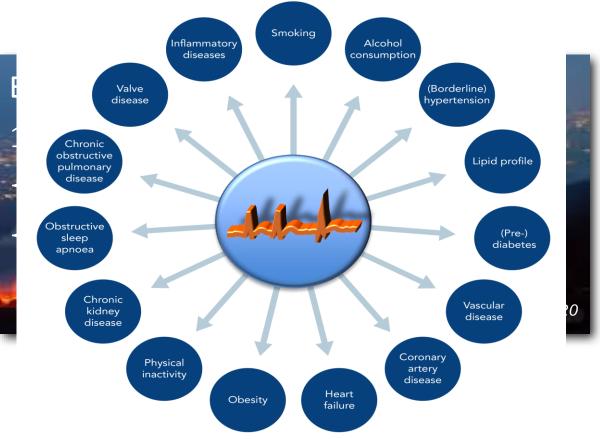




Atrial Fibrillation Demographics by Age

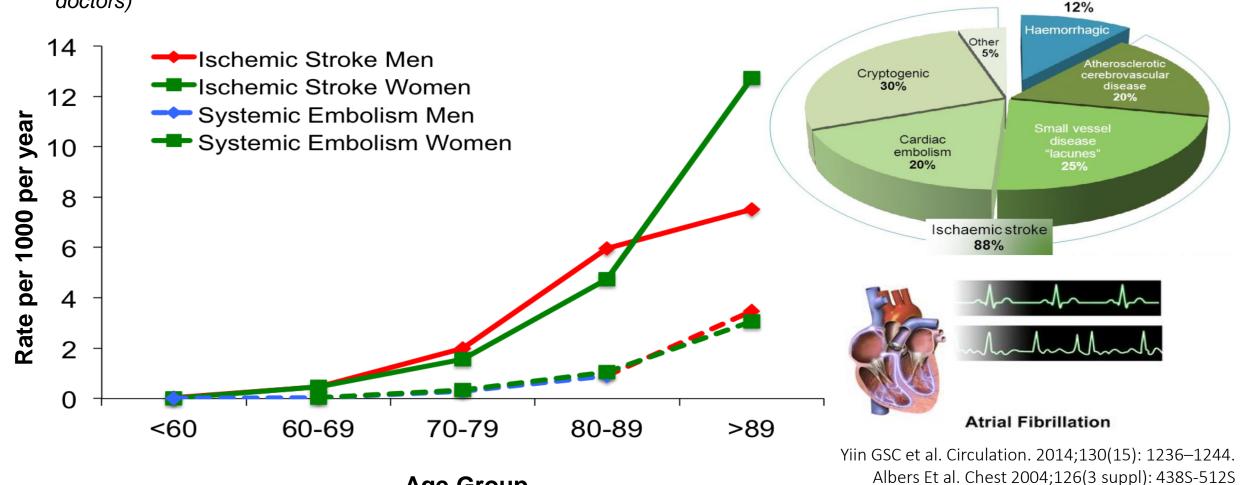
Comorbidities in Atrial Fibrillation





Age-Specific Incidence, Outcome, Cost and Projected Future Burden of AF-Related Embolic Vascular Events: A Population-Based Study

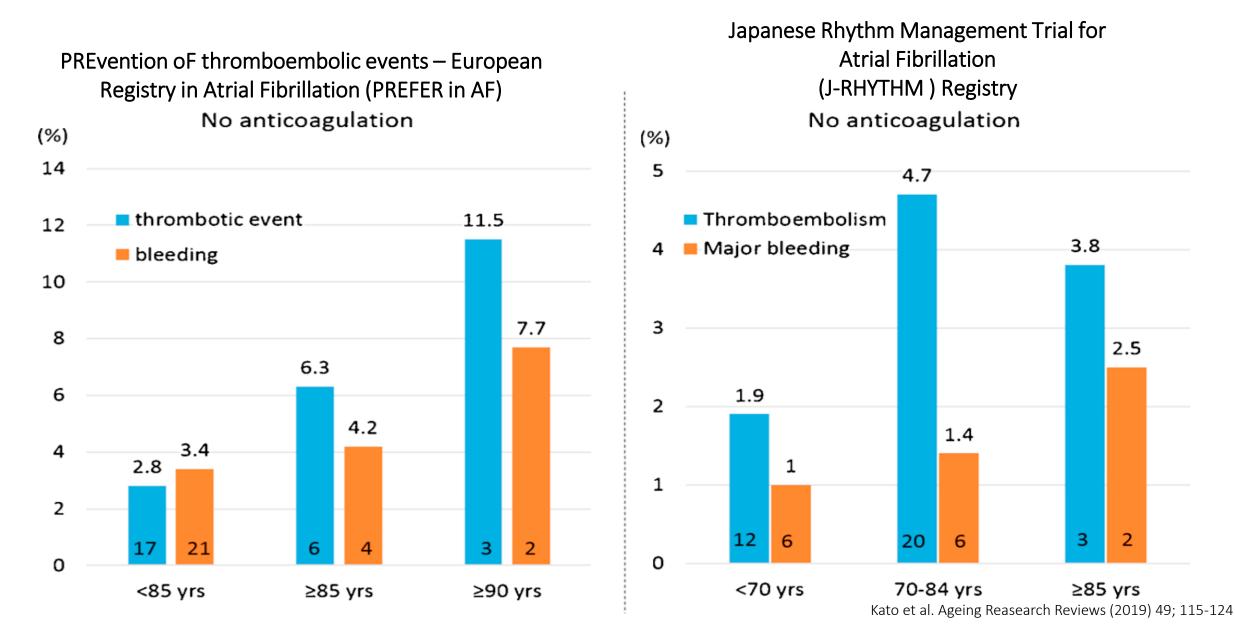
Age- and sex-specific rates per 100,000 population per year for all incident AF-related ischaemic stroke and systemic embolism: the Oxford Vascular Study (2002-2012; N=92728; 9 general practices - about 100 family doctors)



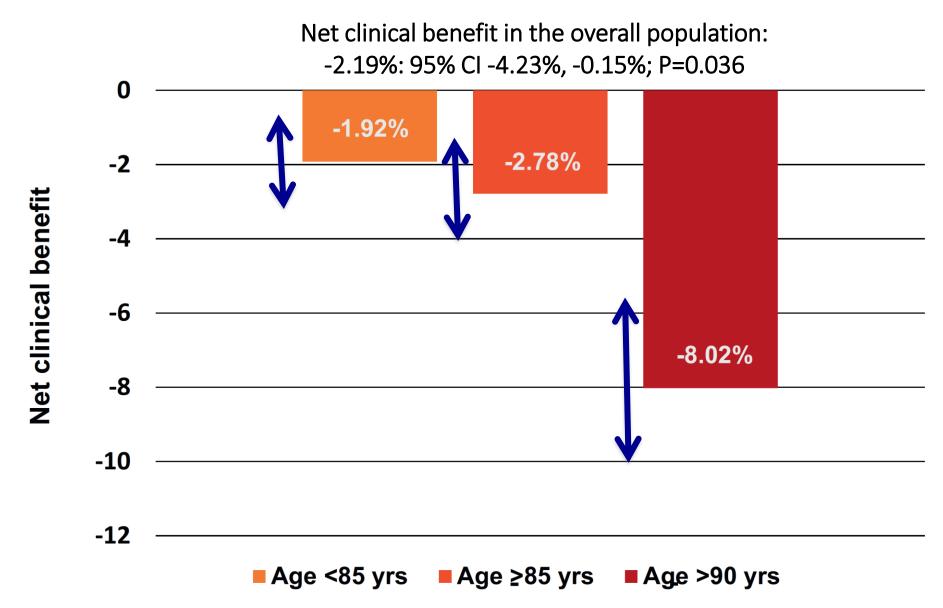
Thom et al. American Heart Association. Circulation 2006;113:385-e151

Age Group

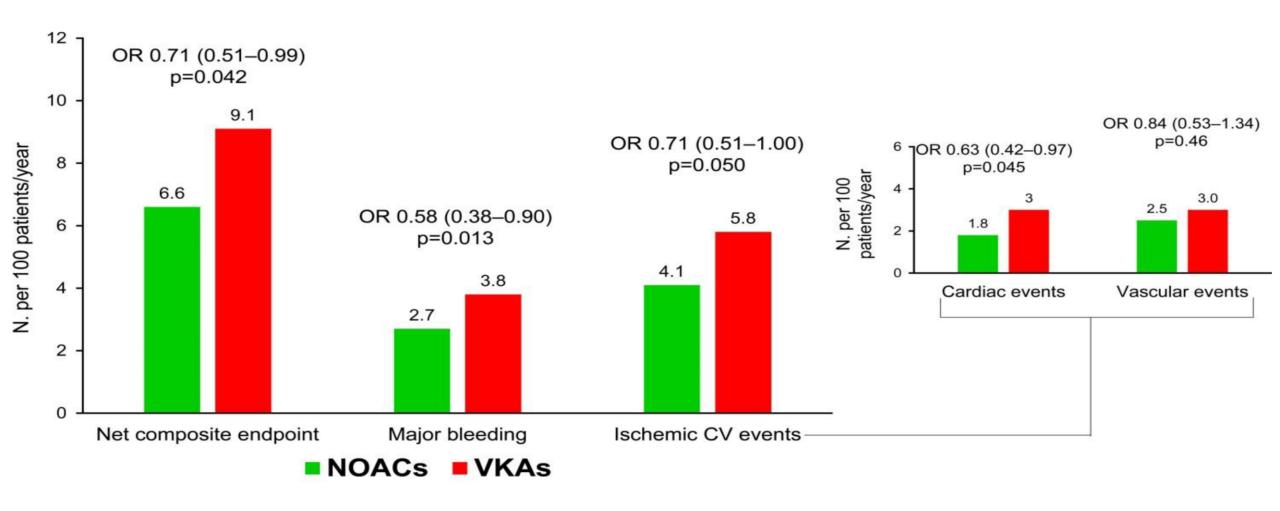
The ischemic and bleeding risks both increase with increasing age regardless of anticoagulant use



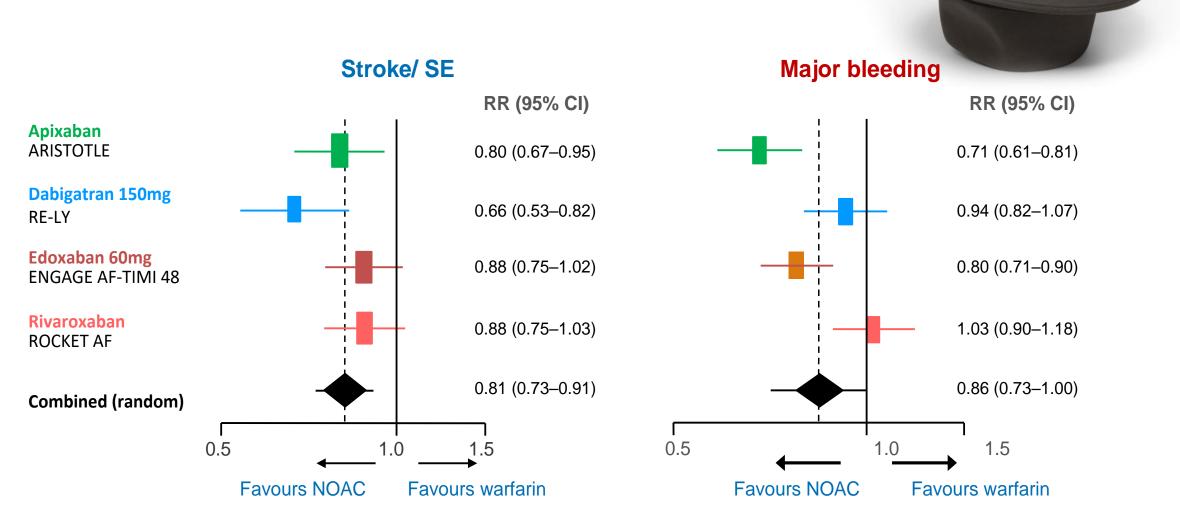
Net clinical benefit, adjusted for the mortality risk, of OAC vs no OAC according to different age strata: a sub-analysis from the PREFER in AF



Net Clinical Benefit of Non-Vitamin K Antagonist Versus Vitamin K Antagonist Anticoagulants in Elderly Patients With Atrial Fibrillation: PREFER in AF PROLONGATION



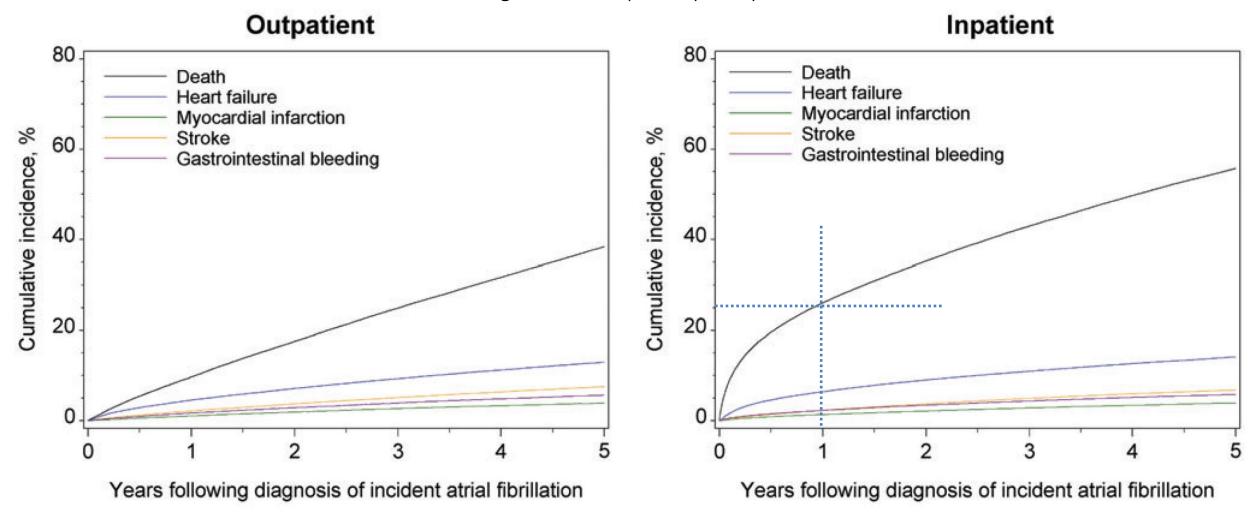
Comparison of the efficacy and safety of new oral anticoagulants with warfarin in patients with atrial fibrillation: a meta-analysis of RCT



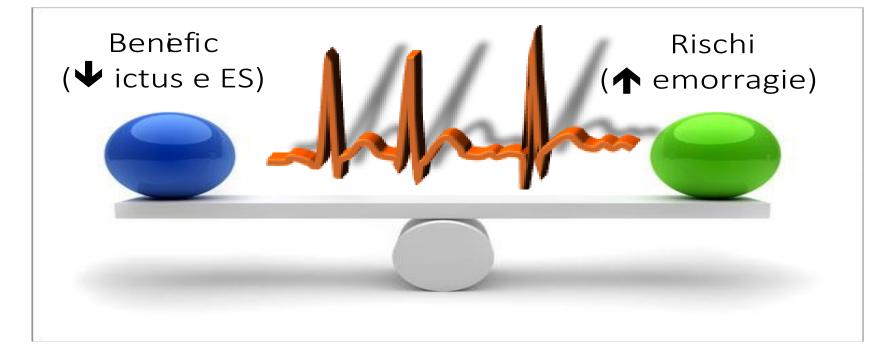
Clinical course of atrial fibrillation in older adults: the importance of cardiovascular events beyond stroke

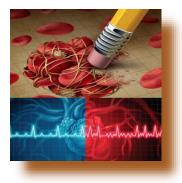
Retrospective study including 186461 Medicare beneficiaries >=65 years (mean age 79.5 years) with AF; outcomes mortality and hospitalization

Observed cumulative incidence of events in the 5 years after the diagnosis of incident atrial fibrillation by setting of diagnosis in the primary study cohort.









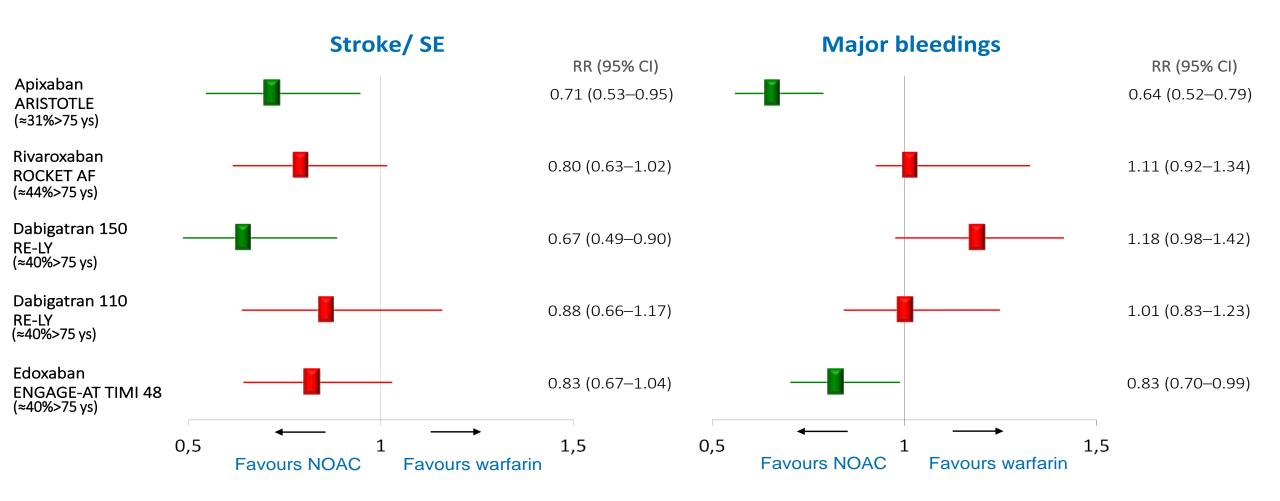


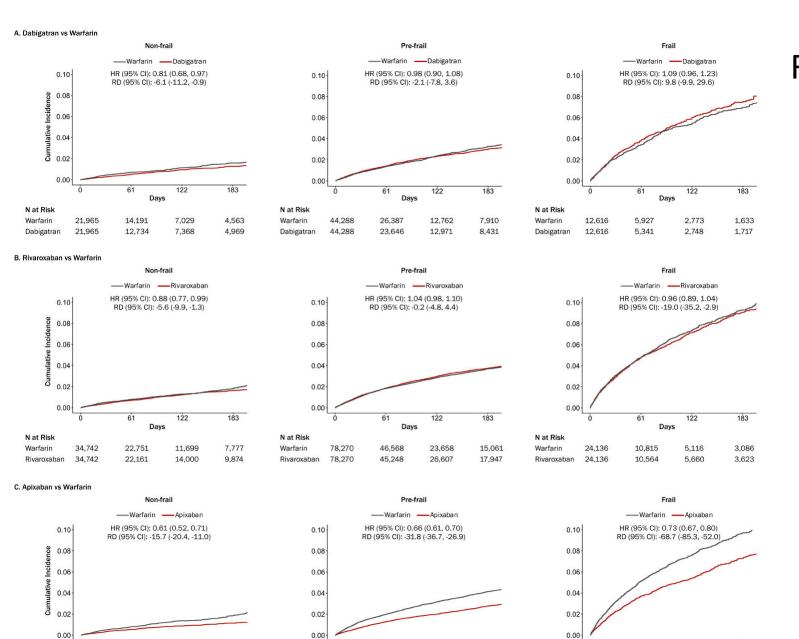






Efficacy and **safety** outcomes in patients ≥ 75 years from subanalysis of Phase III RCTs on DOACs





Days

19,028

21,468

12,103

14,570

Apixaban

20,625

36,898

36,565

5,916

7,290

Apixabar

62,661

Warfarin

Apixaban

16,421

10,284

Frailty and Clinical Outcomes of Direct Oral Anticoagulants versus Warfarin In a Cohort Study of Older Adults with Atrial Fibrillation

Frailty and Cumulative Incidence Plots of a Composite Endpoint of **Death, Ischemic Stroke, or Major Bleeding** in Older Adults with Atrial Fibrillation Newly Treated with Direct Oral Anticoagulants vs Warfarin.

122

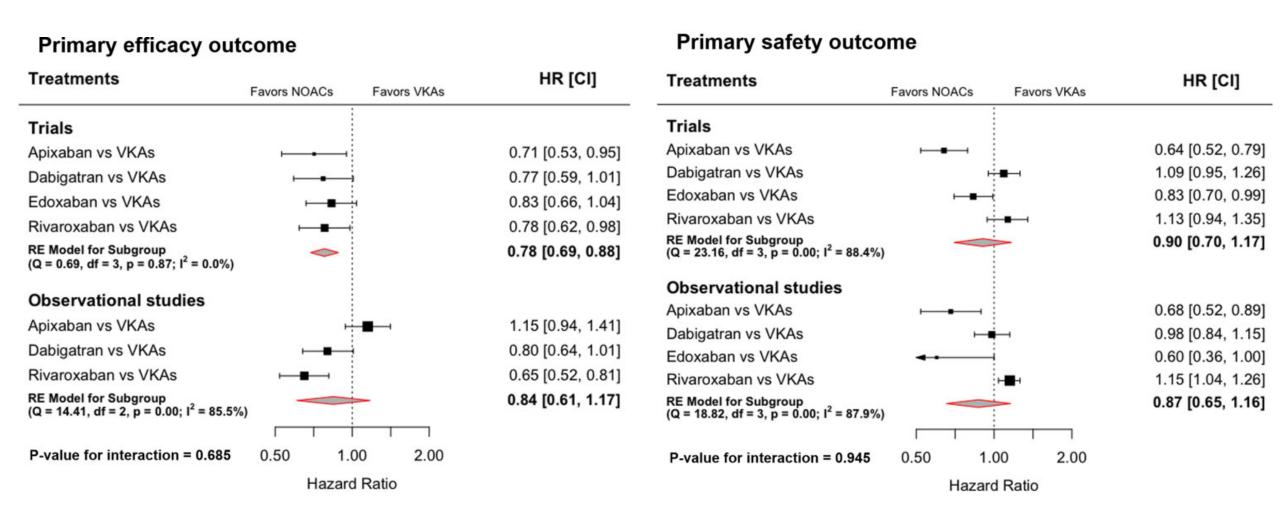
4,387

5,067

2,653

Days

9,063 9,342 Safety and efficacy of non-vitamin K antagonist oral anticoagulants in elderly patients with atrial fibrillation: systematic review and meta-analysis of 22 studies and 440 281 patients

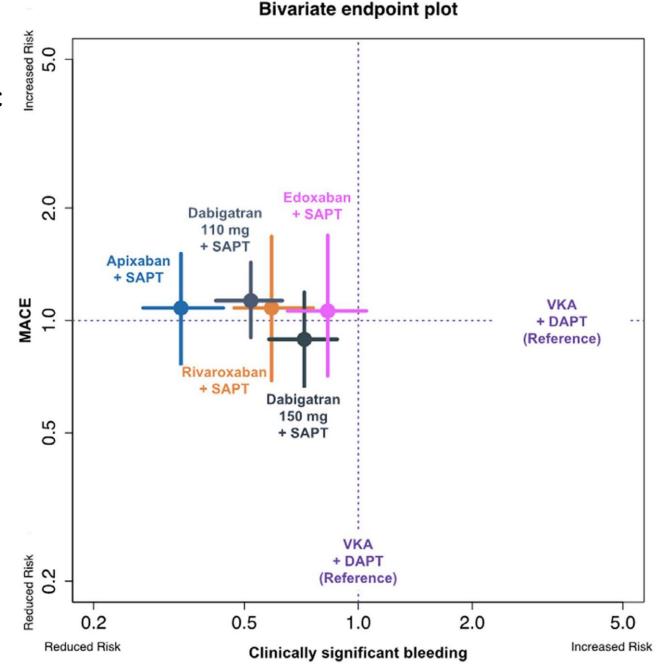


Safety and Efficacy of Double Antithrombotic Therapy With Non–VKA Oral Anticoagulants in Patients With AF Undergoing PCI: A Systematic Review and Meta-Analysis

PIONEER AF PCI RE-DUAL PCI AUGUSTUS ENTRUST AF-PCI

10969 pts – mean age 69.0 to 70.8 yrs

NOAC+ clopidogrel Vs VKA+ASA+clopidogrel







Prevention

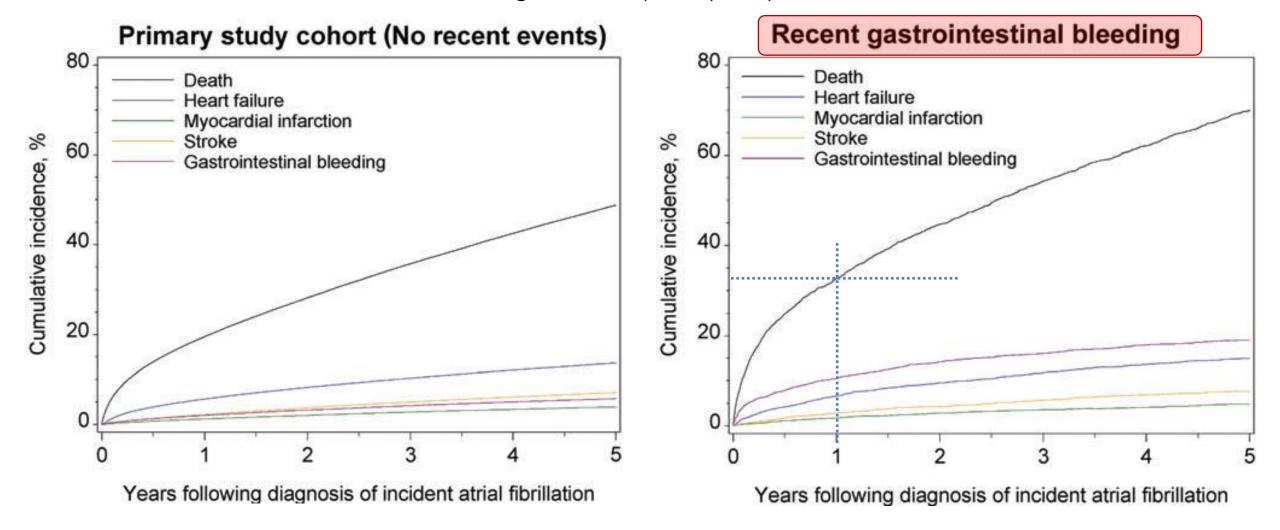
Choosing a particular oral anticoagulant and dose for stroke prevention in individual patients with non-valvular atrial fibrillation: part 2

	Age > 75 years		
First choice	 Apixaban 5 mg twice daily [2.5 mg if ≥2 of the following: age ≥80 years, body weight ≤60 kg, or creatinine ≥1.5 mg/dL (133 mmol/L)] 		
Second Choice	 Dabigatran 110 mg twice daily Rivaroxaban 20 mg once daily Edoxaban 60 mg once daily 		

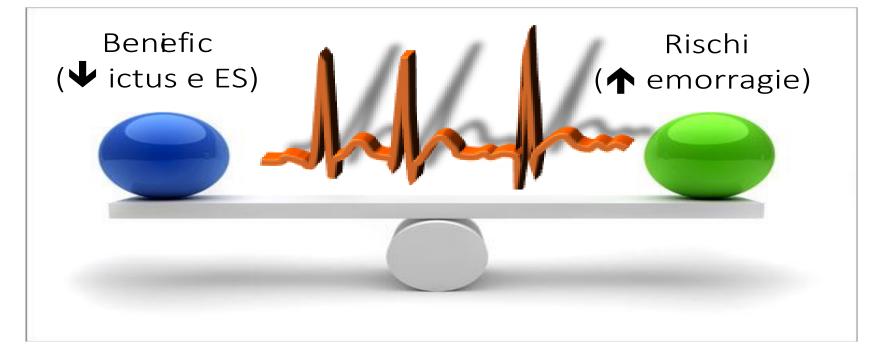
Clinical course of atrial fibrillation in older adults: the importance of cardiovascular events beyond stroke

Retrospective study including 186461 Medicare beneficiaries >=65 years (mean age 79.5 years) with AF; outcomes mortality and hospitalization

Observed cumulative incidence of events in the 5 years after the diagnosis of incident atrial fibrillation by setting of diagnosis in the primary study cohort.

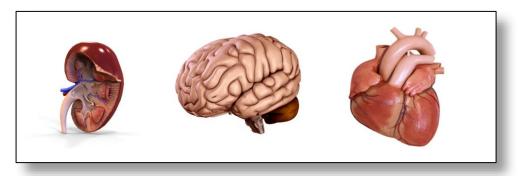








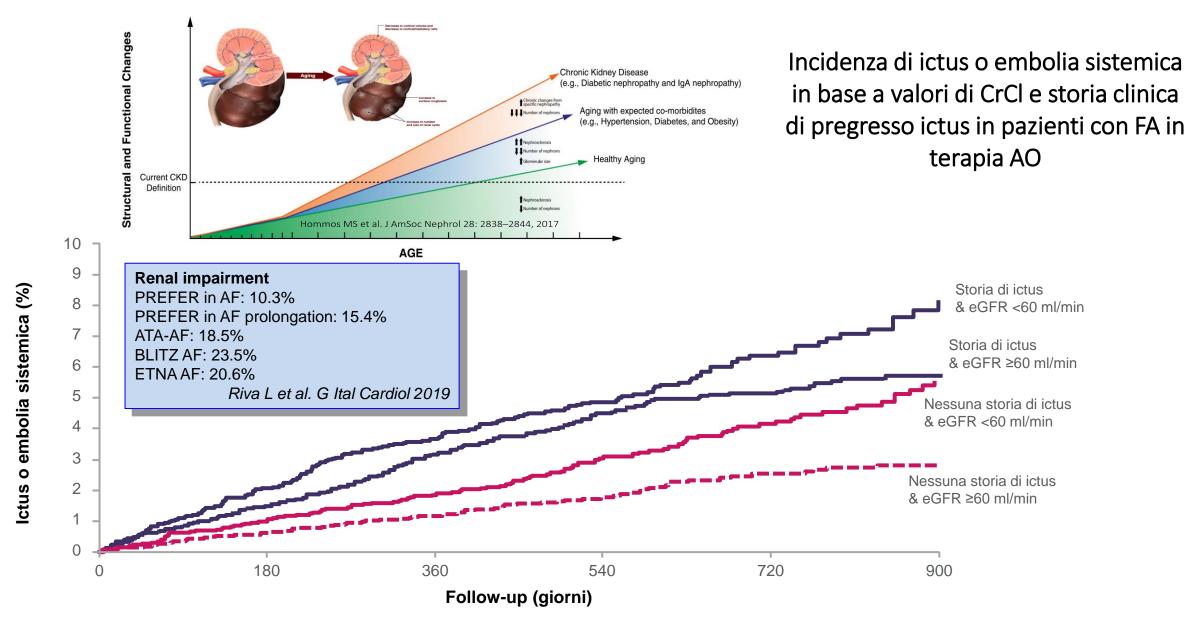




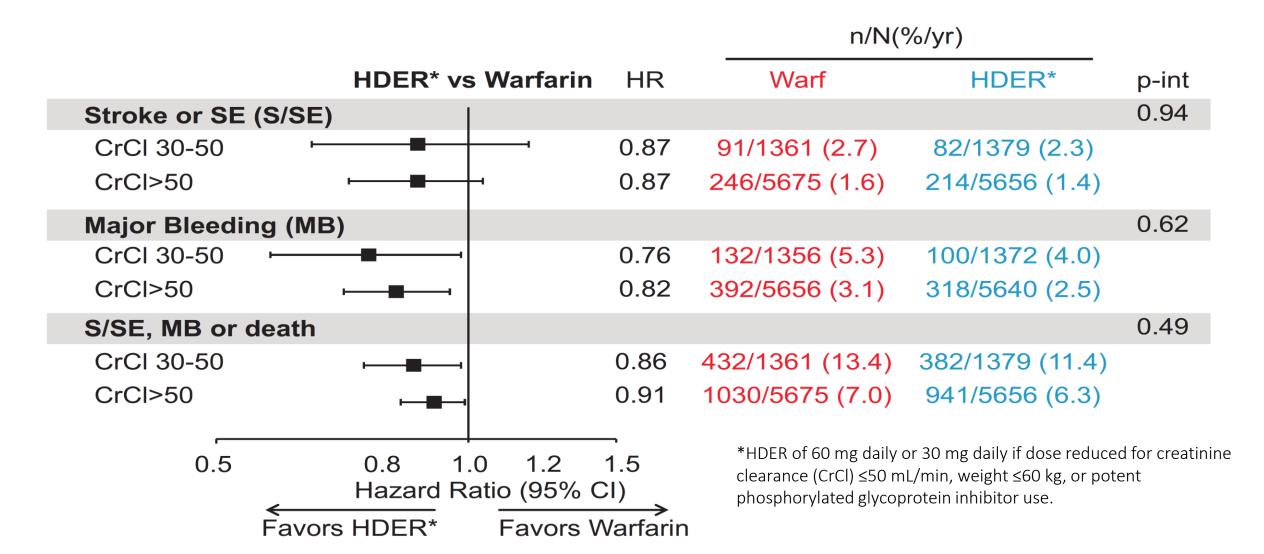




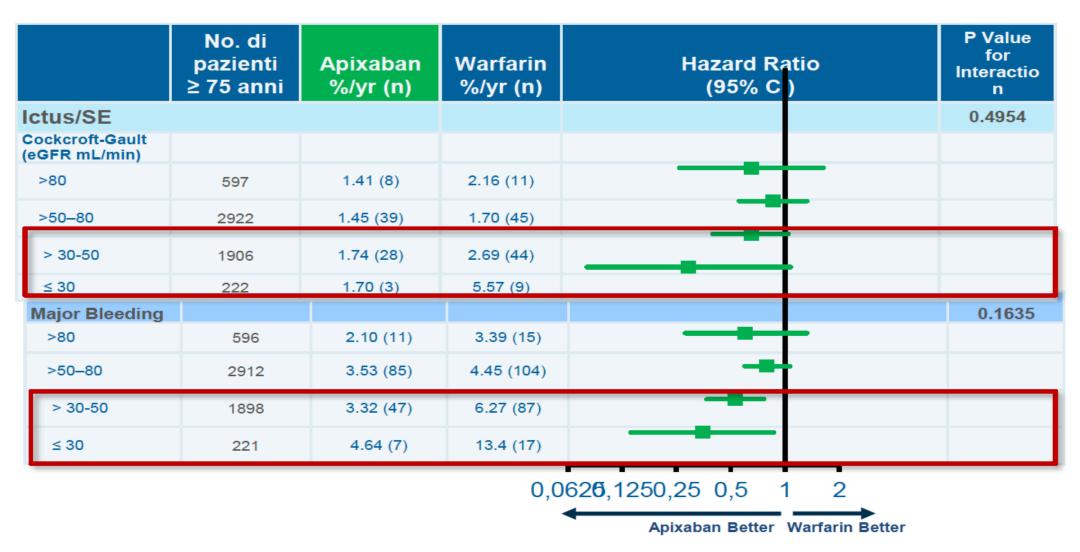
Insufficienza renale cronica e fibrillazione atriale



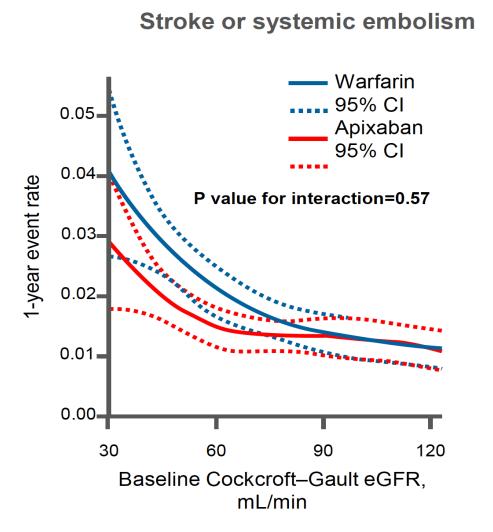
Primary efficacy, safety, and net clinical outcome end points by prespecified CrCl subgroups in the ENGAGE AF-TIMI 48 Trial

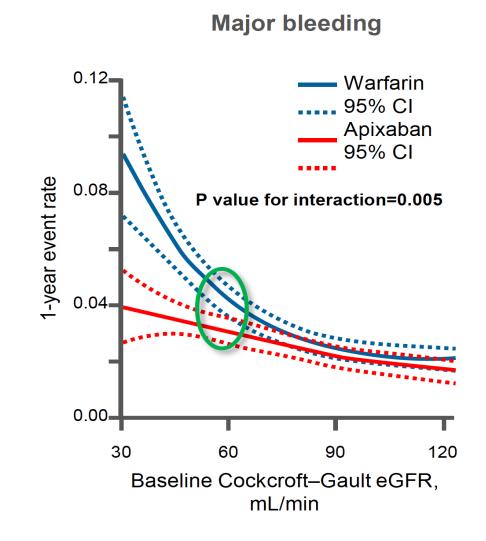


Efficacy and safety of apixaban compared with warfarin for stroke prevention in atrial fibrillation according to age and renal function: observations from the ARISTOTLE trial

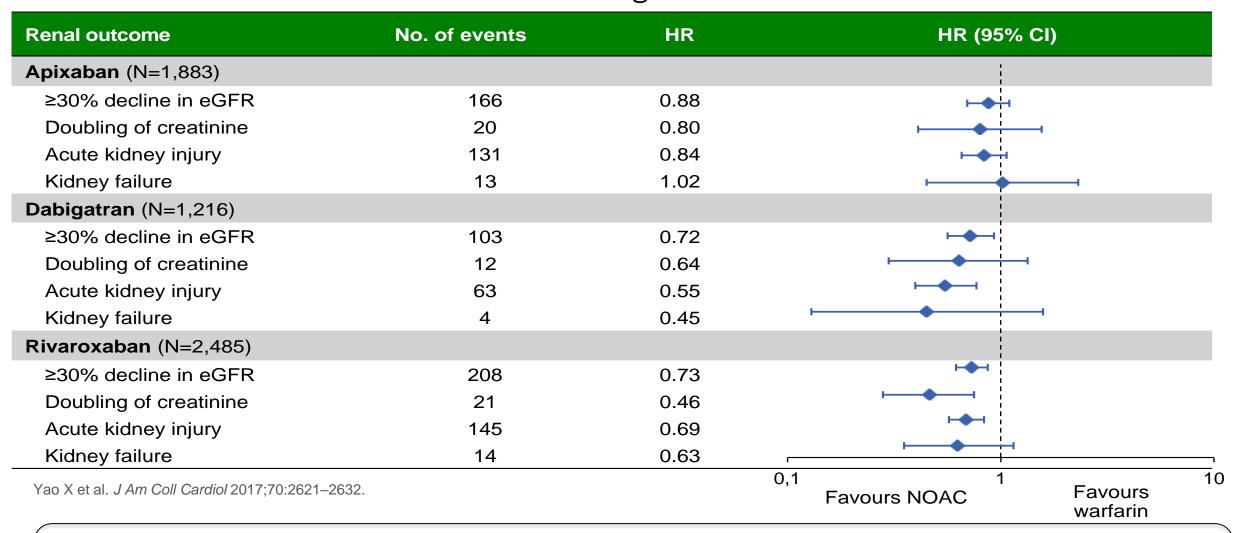


Efficacy of apixaban when compared with warfarin in relation to renal function in patients with AF: insights from the ARISTOTLE trial





Real-world Evidence Confirms that Renal Function is Maintained in Patients Receiving NOAC



Over time, NOACs (particularly dabigatran and rivaroxaban) may be associated with lower risks of adverse renal outcomes than warfarin in patients with AF

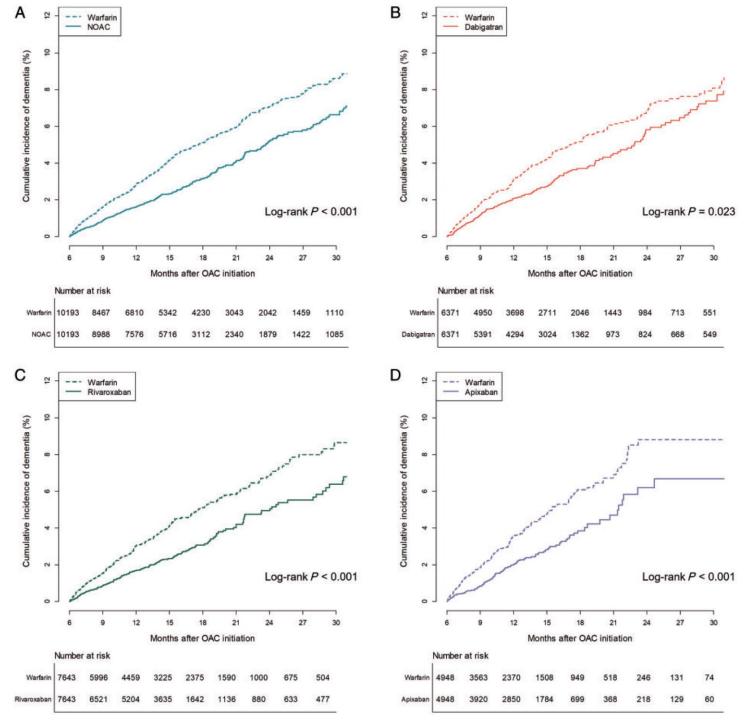
2019 focused update of AHA/ACC/HRS AF Guidelines



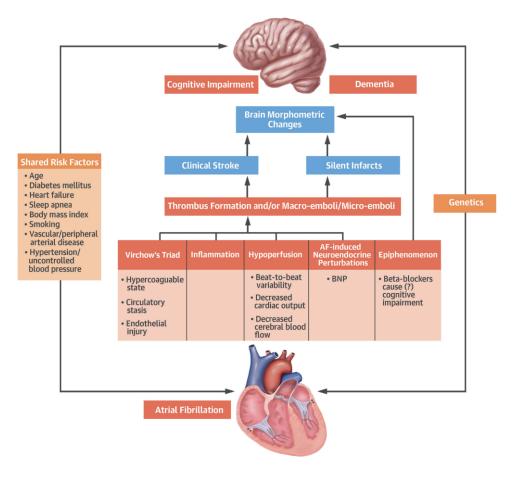




January CT et al. *Circulation* 2019; doi.org/10.1016/j.jacc.2019.01.011.



Cumulative incidences of dementia for atrial fibrillation patients undergoing NOAC or warfarin treatment

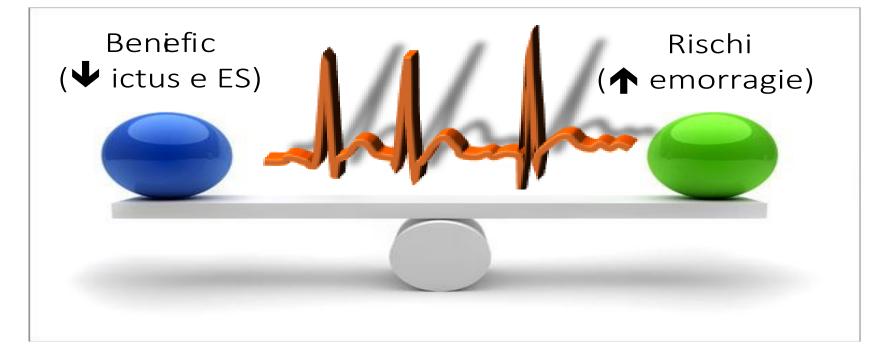


Anticoagulant Use for Atrial Fibrillation Among Persons With Advanced Dementia at the End of Life

	No. (%)			
Characteristic	Anticoagulation in the last 6 mo of life (n = 5033)	No anticoagulation in the last 6 mo of life (n = 10 184)	Adjusted OR (95% CI)	
>1 y in nursing home	2154 (42.8)	2399 (23.6)	2.68 (2.48-2.89)	*
CHA ₂ DS ₂ VASC score ^b				
<4	681 (13.5)	1661 (16.3)	1 [Reference]	
5-6	1914 (38.0)	4242 (41.7)	1.10 (0.99-1.23)	
>7	2438 (48.4)	4281 (42.0)	1.38 (1.23-1.54)	*
ATRIA score ^c				
<3	796 (15.8)	2205 (21.7)	1 [Reference]	
4-6	1690 (33.6)	3584 (35.2)	1.19 (1.07-1.32)	
>7	2547 (50.6)	4395 (43.2)	1.25 (1.13-1.39)	*
Other clinical factors				
Rejection of care	454 (9.0)	844 (8.3)	1.03 (0.91-1.17)	
Falls	1690 (33.6)	3214 (31.6)	1.04 (0.96-1.12)	
Weight loss	1856 (37.0)	3363 (33.5)	1.09 (1.01-1.18)	*
Pressure ulcer	2052 (40.8)	3228 (31.7)	1.37 (1.27-1.48)	*
Difficulty swallowing	1136 (22.6)	2008 (19.8)	1.12 (1.02-1.22)	*
Restraint use	189 (3.8)	433 (4.3)	0.79 (0.66-0.95)	
Hospice use	1296 (25.8)	3375 (33.1)	0.76 (0.70-0.83)	*

Among 15.217 nursing home residents with AF and advanced dementia (mean age, 87.5±6.76 years, 68.2% women), 5033 (33.1%) received an anticoagulant in the last 6 months of life.









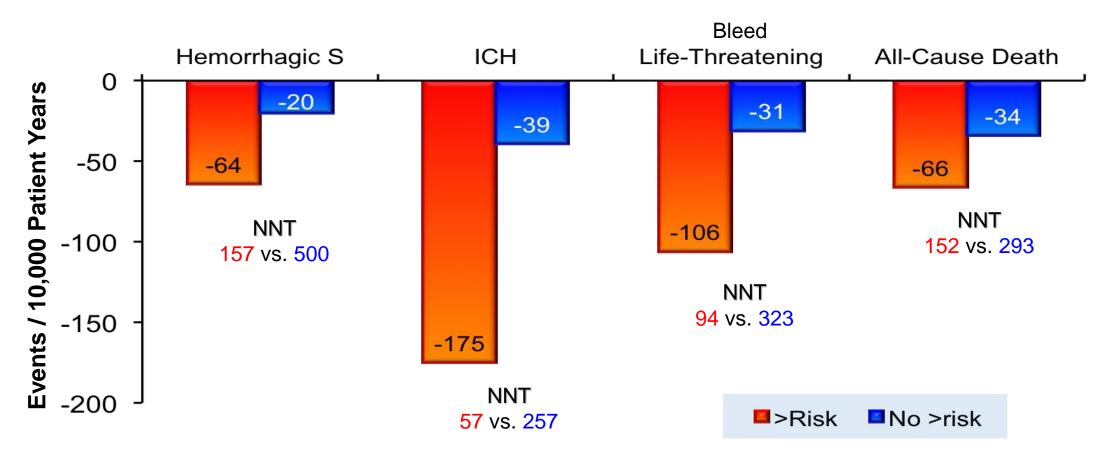




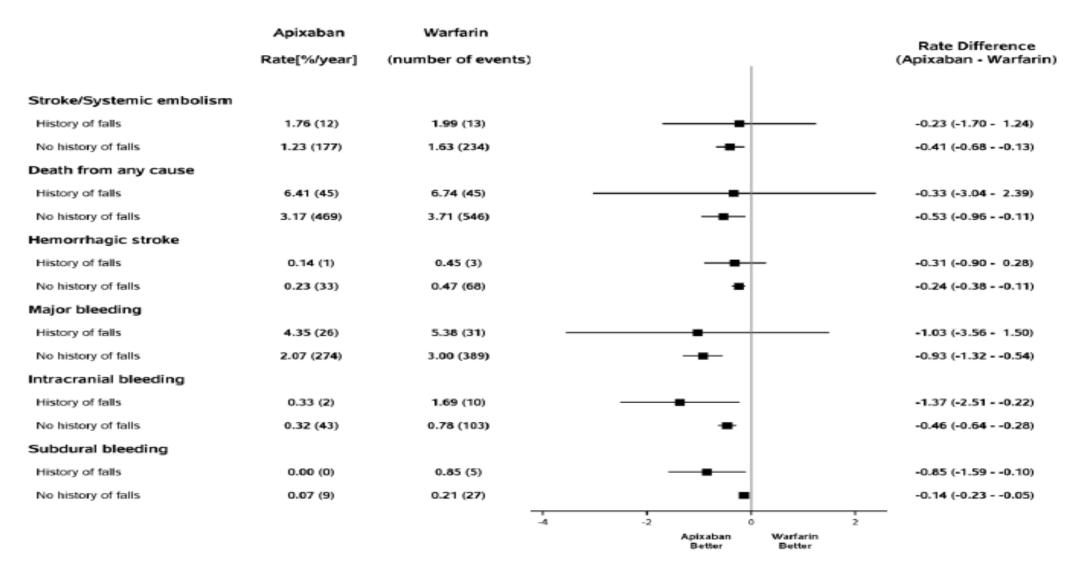


Absolute Risk Reduction of HDER Compared With Warfarin in Patients at Increased Fall Risk Fall Risk Versus Not at Increased Fall Risk ENGAGE AF—TIMI 48 Analysis

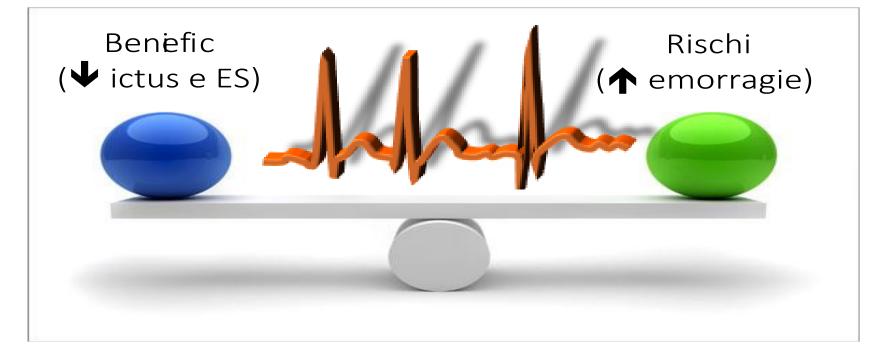
Absolute Risk Reduction of HD Edoxaban Regimen Compared With Warfarin in Patients at Increased Versus Not at Increased Fall Risk



Clinical Outcomes and <u>History of Fall</u> in Patients with AF Treated with Oral Anticoagulation. Insights from the ARISTOTLE Trial

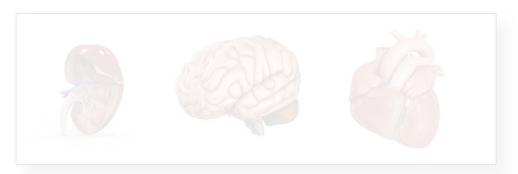








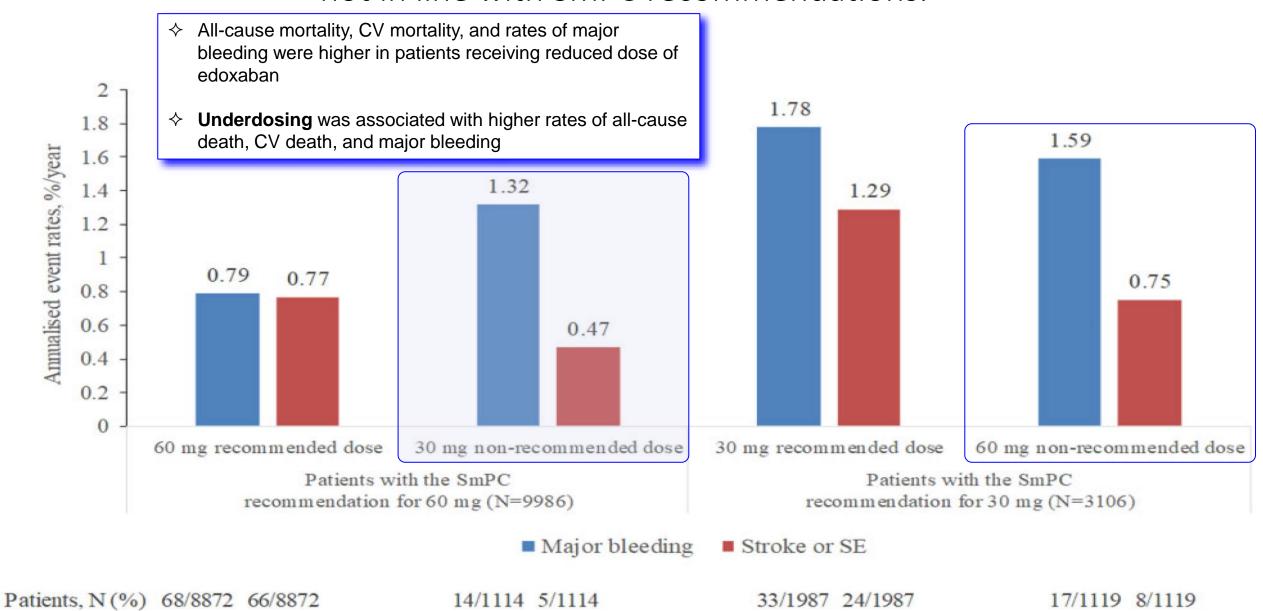








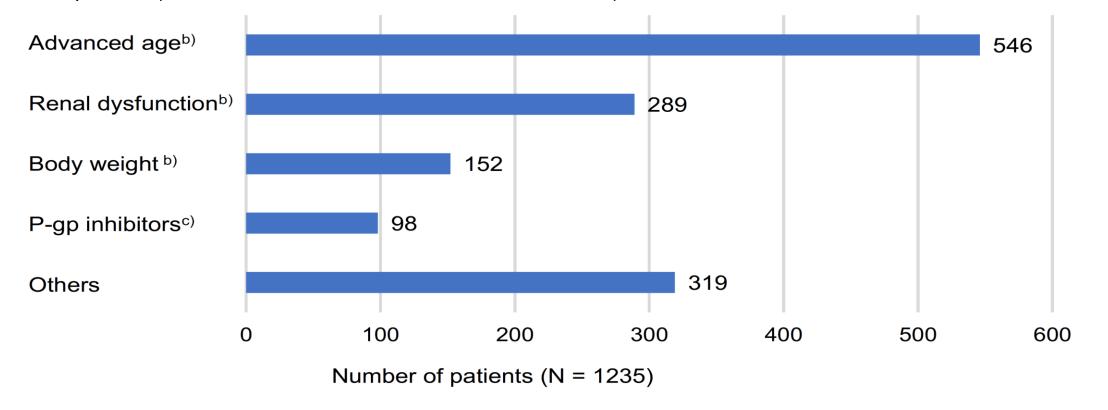
Major bleeding and stroke/SEE in ETNA-AF-Europe patients dosed in line and not in line with SmPC recommendations.



De Groot JR et al. Eur Heart J Cardiovasc Pharmacother, 2020

Reasons for non-recommended lower dosing (30mg) in patients with no adjustment factors: ETNA AF - JAPAN

The lower dose of 30 mg edoxaban was administered to approximately 70% of patients (11.4% received a nonrecommended lower dose).



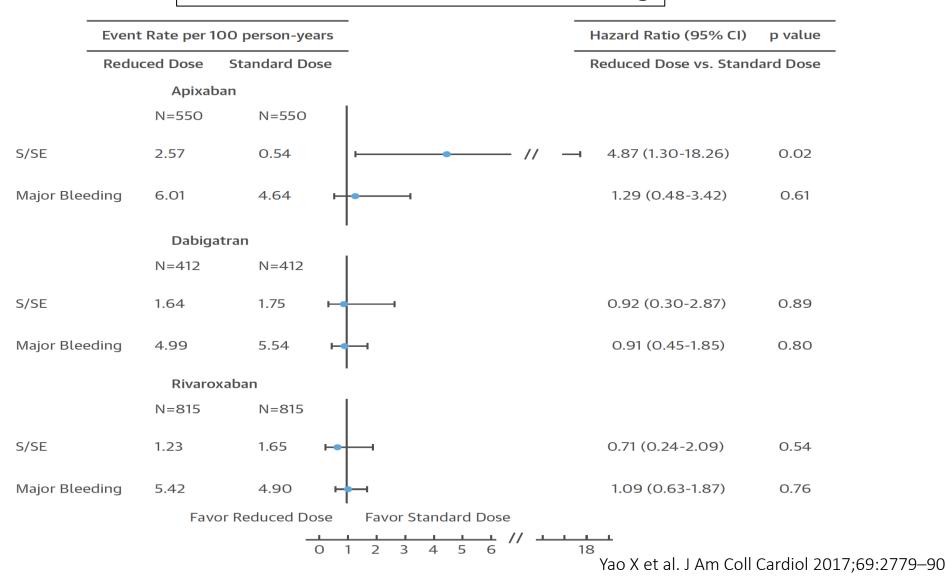
a) 230 patients without records for these factors were excluded from 11107 patients in the safety analysis set.

b) Item does not meet criteria for decreasing the dose of edoxaban as described in the package insert.

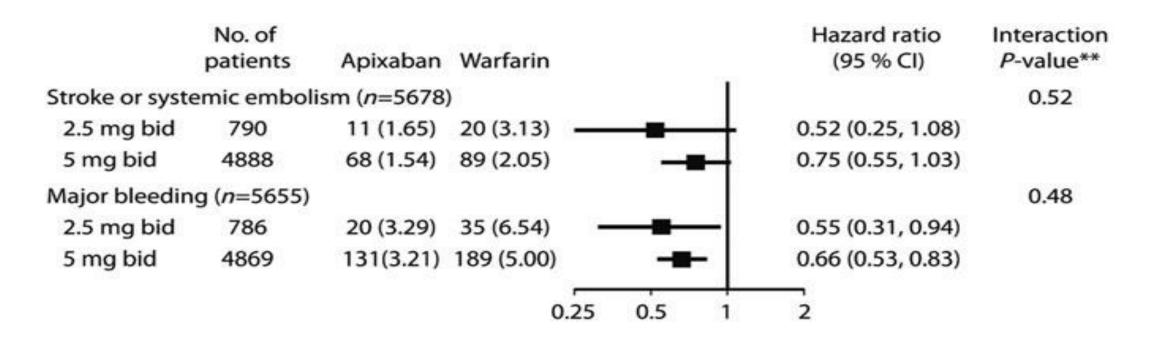
c) P-gp inhibitors other than quinidine, verapamil, erythromycin, or cyclosporine.

Non-Vitamin K Antagonist Oral Anticoagulant Dosing in Patients With AF and Renal Dysfunction

Outcomes Associated With Underdosing



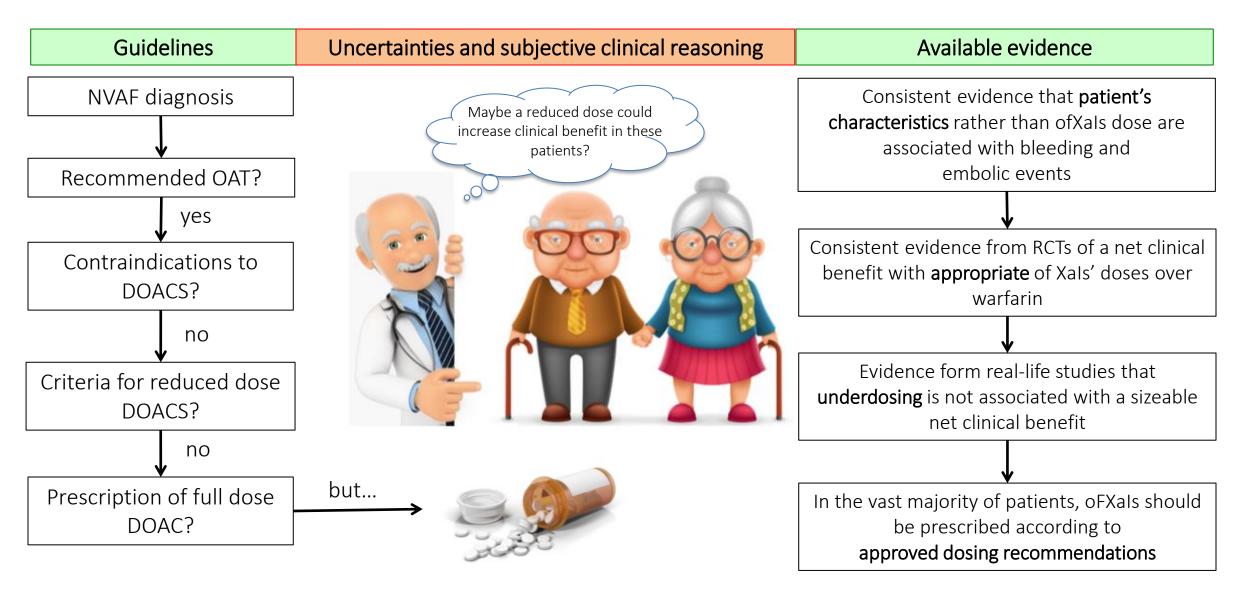
Efficacy and safety of apixaban compared with warfarin for stroke prevention in atrial fibrillation according to age and renal function: observations from the ARISTOTLE trial



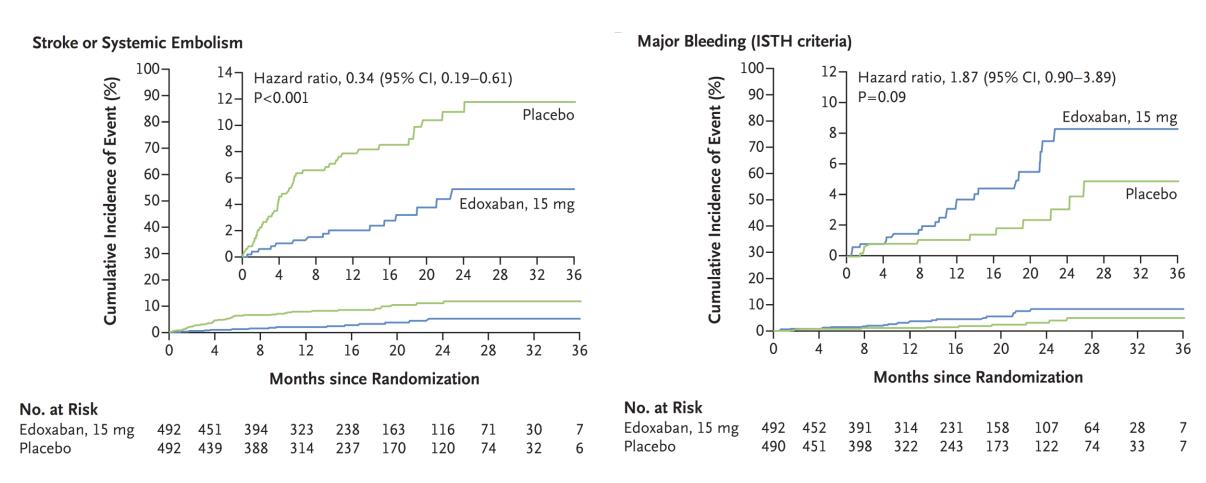
A reduced dose of 2.5 mg twice daily or placebo were administered to a total of 831 patients; 790 of these patients were ≥75 years.

** Interaction among treatment, age and dose based on randomized or treated population

Off-label use of reduced dose direct oral factor Xa-inhibitors in subjects with atrial fibrillation: A review of clinical evidence

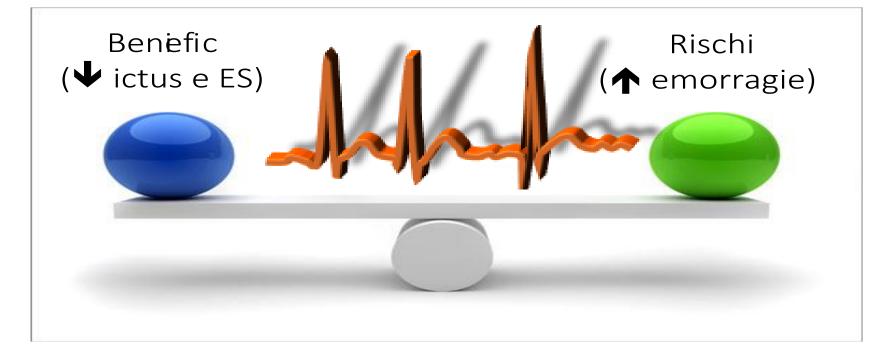


(Very) Low-Dose Edoxaban in Very Elderly Patients with Atrial Fibrillation ELDERCARE-AF



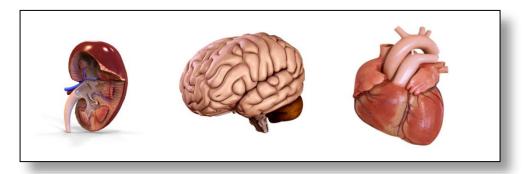
A low creatinine clearance (15 to 30 ml per minute), a history of bleeding from a critical area or organ or gastrointestinal bleeding, low body weight (≤45 kg), continuous use of NSAIDs or current use of an antiplatelet drug.









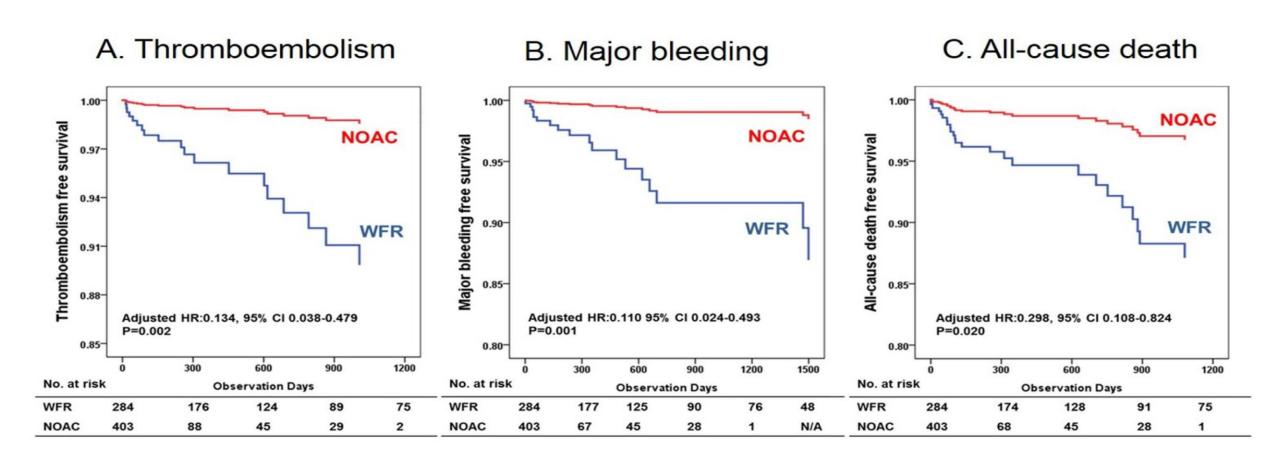








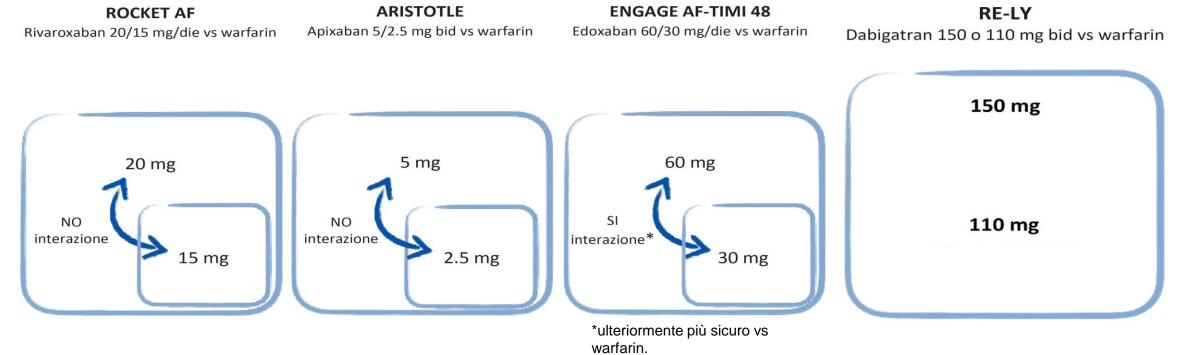
Effectiveness and safety of non-vitamin K antagonist oral anticoagulants in **octogenarian** patients with non-valvular AF



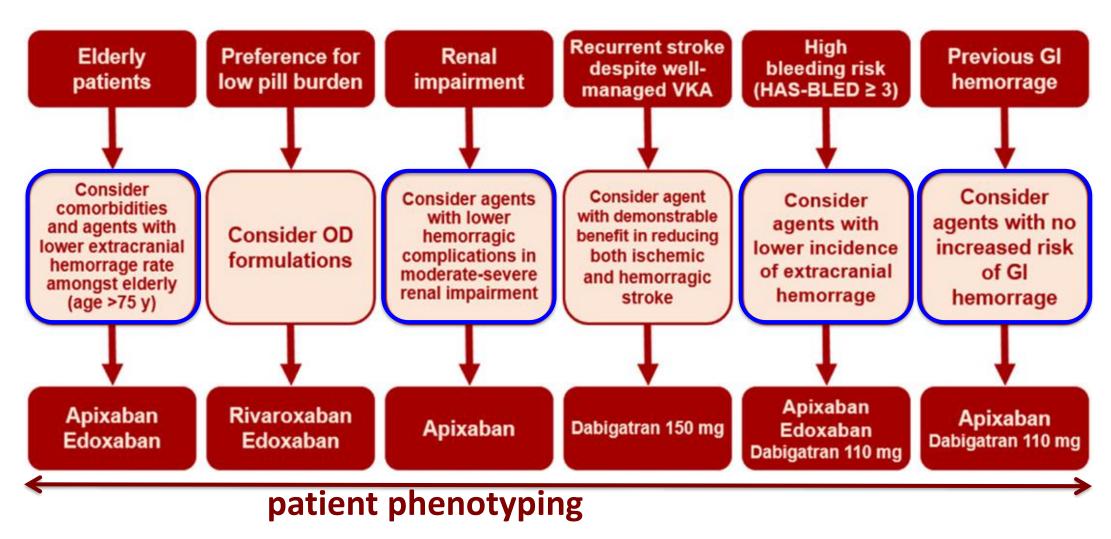
Risultati clinici con rivaroxaban, apixaban, edoxaban e dabigatran vs warfarin negli studi registrativi ed interazione tra dose piena e ridotta



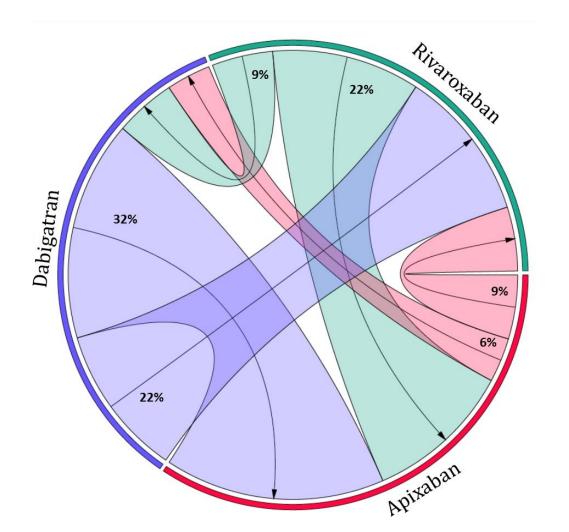
Sicurezza



Therapeutic decisional flow-chart for AF patients candidate to OAT, according to specific characteristics



Italian Medicines Agency (AIFA) monitoring registries - 683,172 patients Patients with at least one switch up to 24 months



- The total number of patients with at least one switch up to 24 months was 15,799 (3.3%)
- More than half of switches came from dabigatran
- Switches from rivaroxaban amounted to about 31%,
- Globally apixaban resulted the NOAC with the smallest switch percentage and the highest number of patients with a previous NOAC treatment

All patients treated with apixaban (red), dabigatran (purple) or rivaroxaban (turquoise) and with at least one switch in the reference period

CLINICAL INVESTIGATIONS

New Oral Anticoagulants in Elderly Adults: Evidence from a Meta-Analysis of Randomized Trials

Partha Sardar, MD,* Saurav Chatterjee, MD,† Shobhana Chaudhari, MD,* and Gregory Y. H. Lip, MD[‡]

...An individualized approach matching the particular NOAC to the participant profile, taking into consideration the risk of bleeding and other comorbidities, should be taken <u>rather than a</u> generalized "one drug fits all" approach in elderly adults.

