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IX CONGRESSO NAZIONALE FCOCARDIOCHIRURGIA 2017

28 - 29 <mark>MARZO 2017</mark> MILANO, <mark>27 - 28 - 29 MARZO 2017</mark> MILANO, <mark>27 - 28 - 29 MARZO 20</mark>17 MILANO LANO, 27 - 28 - 29 MARZO 2017 MILA<u>NO, 27 - 28 - 29 MARZO 2017 MILANO, 27 - 28 - 29 MARZO 2</u>0







I NAO: DAI GRANDI TRIAL ALLA REAL LIFE

G Corrado, MD, FANMCO, FESC Unità Operativa di Cardiologia Ospedale Valduce – Como (IT)





H. Valduce 1879



IX CONGRESSO NAZIONALE IX CONGRESSO NAZIONALE IX CONGRESSO NAZIONALE IX CONGRESSO NAZIONALE IX CONGRESSO

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CONFLITTI DI INTERESSE: NESSUNO

G Corrado, MD, FANMCO, FESC Unità Operativa di Cardiologia Ospedale Valduce – Como (IT)







FA: PREVALENZA



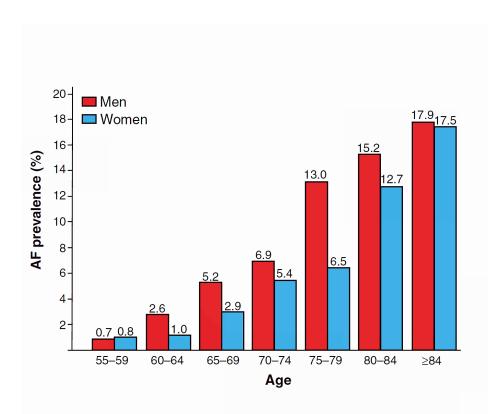


Fig. 1 Prevalence of atrial fibrillation according to age in the Rotterdam study. (adapted from Heeringa et al. [1]).

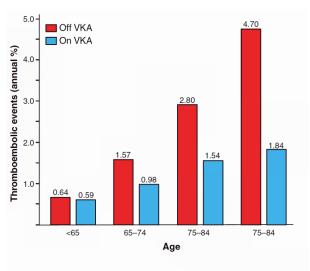


Fig. 2 Rates (annual rate/100) of thromboembolic events per age (adapted from Singer et al. [7]).

Review

Journal of INTERNAL MEDICINE
 doi: 10.1111/j.1365-2796.2011.02464.x

Stroke prevention in elderly patients with atrial fibrillation: challenges for anticoagulation

P. R. Sinnaeve¹, M. Brueckmann², A. Clemens², J. Oldgren³, J. Eikelboom⁴ & J. S. Healey⁴

From the ¹Department of Cardiova scular Medicine, University Hospitals Leuven, Leuven, Belgium, ²Boehringer Ingelheim, Global Clinical Development and Medical Affairs, Ingelheim am Rhein, Germany, ¹Uppsala Clinical Research Centre and Department of Medical Sciences, Uppsala Oniversity, Uppsala, Sueden, and ²Population Health Research Institute, Hamilton, Canada



IMPATTO CLINICO

Table 3 Cardiovascular morbidity and mortality associated with atrial fibrillation

Event	Association with AF
Death	Increased mortality, especially cardiovascular mortality due to sudden death, heart failure or stroke.
Stroke	20–30% of all strokes are due to AF. A growing number of patients with stroke are diagnosed with 'silent', paroxysmal AF.
Hospitalizations	10-40% of AF patients are hospitalized every year.
Quality of life	Quality of life is impaired in AF patients independent of other cardiovascular conditions.
Left ventricular dysfunction and heart failure	Left ventricular dysfunction is found in 20–30% of all AF patients. AF causes or aggravates LV dysfunction in many AF patients, while others have completely preserved LV function despite long-standing AF.
Cognitive decline and vascular dementia	Cognitive decline and vascular dementia can develop even in anticoagulated AF patients. Brain white matter lesions are more common in AF patients than in patients without AF.

AF = atrial fibrillation; LV = left ventricular.



European Heart Journal (2016) 37, 2893–2962 doi:10.1093/eurheartj/ehw210 **ESC GUIDELINES**

2016 ESC Guidelines for the management of atrial fibrillation developed in collaboration with EACTS

The Task Force for the management of atrial fibrillation of the European Society of Cardiology (ESC)

Developed with the special contribution of the European Heart Rhythm Association (EHRA) of the ESC

Endorsed by the European Stroke Organisation (ESO)

Authors/Task Force Members: Paulus Kirchhof* (Chairperson) (UK/Germany), Stefano Benussi* (Co-Chairperson) (Switzerland), Dipak Kotecha (UK), Anders Ahlsson (Sweden), Dan Atar (Norway), Barbara Casadei (UK), Manuel Castella (Spain), Hans-Christoph Diener (Germany), Hein Heidbuchel (Belgium), Jeroen Hendriks (The Netherlands), Gerhard Hindricks (Germany), Antonis S. Manolis (Greece), Jonas Oldgren (Sweden), Bogdan Alexandru Popescu (Romania), Ulrich Schotten (The Netherlands), Bart Van Putte (The Netherlands), and Panagiotis Vardas (Greece)

Document Reviewers: Stefan Agewall (CPG Review Co-ordinator) (Norway), John Camm (CPG Review Co-ordinator) (UK), Gonzalo Baron Esquivias (Spain), Werner Budts (Belgium), Scipione Carerj (Italy), Filip Casselman (Belgium), Antonio Coca (Spain), Raffaele De Caterina (Italy), Spiridon Deftereos (Greece), Dobromir Dobrev (Germany), José M. Ferro (Portugal), Gerasimos Filippatos (Greece), Donna Fitzsimons (UK),



FA: COSTI

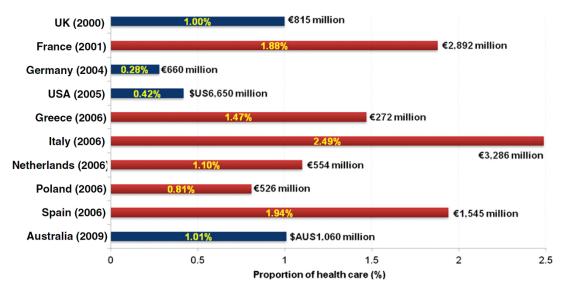
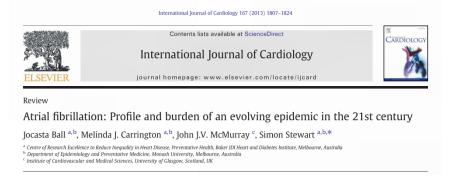


Fig. 6. Estimated health care costs of AF in a range of countries as a proportion of health care spending (= direct costs only; = direct and indirect costs) [86–90,93].







FISIOPATOLOGIA DELLA TROMBOSI AS IN FA

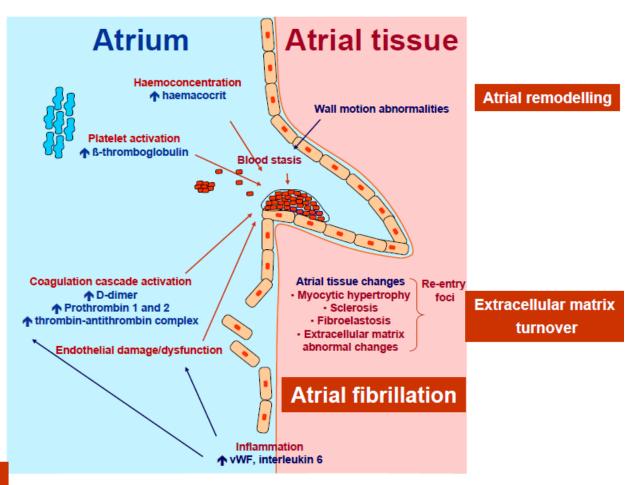
Blood stasis Thrombus

Coagulation

Inflammation

activation

Growth factors







ITER DELLA FA

- Diagnosticare la fibrillazione atriale
- Stratificare il rischio tromboembolico
- Applicare le linee guida al mondo reale











The Risk of Systemic Thromboembolism in Patients With AF

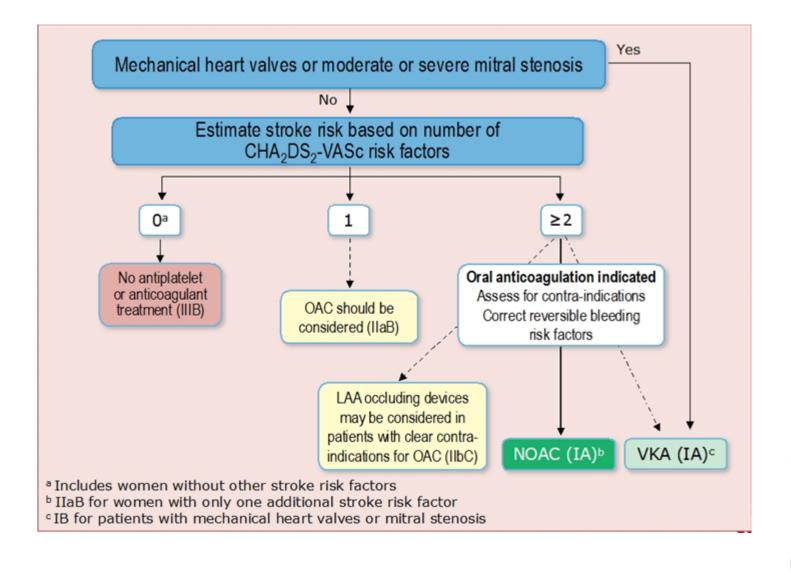
<u>IS NOT</u>

Homogenous





STROKE PREVENTION IN FA





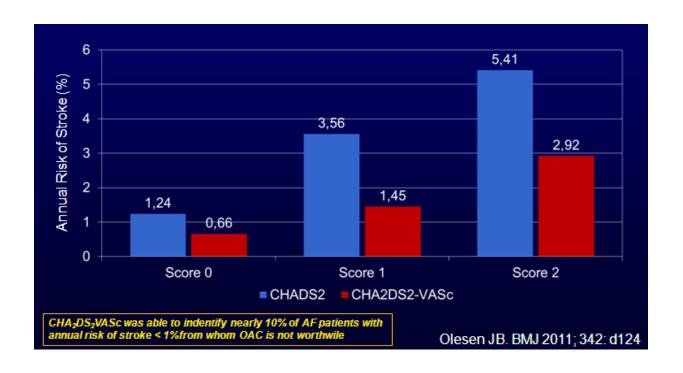
CHA₂DS₂-VASc



CHA ₂ DS ₂ -VASc risk factor	Points
Congestive heart failure Signs/symptoms of heart failure or objective evidence of reduced left- ventricular ejection fraction	1
Hypertension Resting blood pressure > 140/90 mmHg on at least two occasions or current antihypertensive treatment	1
Age 75 years or older	2
Diabetes mellitus Fasting glucose >125 mg/dL (7 mmol/L) or treatment with oral hypoglycaemic agent and/or insulin	1
Previous stroke, transient ischaemic attack, or thromboembolism	2
Vascular disease Previous myocardial infarction, peripheral artery disease, or aortic plaque	1
Age 65-74 years	1
Sex category (female)	1







BMJ

RESEARCH

Validation of risk stratification schemes for predicting stroke and thromboembolism in patients with atrial fibrillation: nationwide cohort study

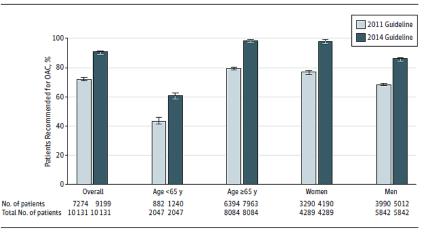
Jonas Bjerring Olesen, research fellow, 'Gregory Y H Lip, professor,' Morten Lock Hansen, research fellow,' Peter Ris Hansen, research director, 'Janne Schurmann Tolstrup, research director, 'Jesper Lindhardsen, research fellow,' Christian Selmer, research fellow,' Ole Ahlehoff, research fellow,' Anne-Marie Schjerning Olsen, research fellow,' Gunnar Hilmar Gislason, research director,' Christian Topy-Pedersen, professor'

Conclusions The risk associated with a specific risk stratification score depended on the risk factors composing the score. CHA₂DS₂-VASc performed better than CHADS₂ in predicting patients at high risk, and those categorised as low risk by CHA₂DS₂-VASc were truly at low risk for thromboembolism.





Figure. Change in the Percentage of Patients Recommended for Oral Anticoagulation (OAC) Under New vs Old Atrial Fibrillation Treatment Guidelines



The figure displays the proportion of patients in the entire Outcomes Registry for Better Informed Treatment of Atrial Fibrillation study population who were recommended for OAC under the 2011 and 2014 guidelines. ^{1,2} Error bars indicate 95% Cls of the proportions.

jamainternalmedicine.com

JAMA Internal Medicine Published online March 2, 2015

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In summary, the implication of using the recently updated guideline is to encourage oral anticoagulation for more patients at intermediate to low risk of stroke. Lacking evidence that this approach leads to overall improved outcomes for patients, we must be aware that the likely consequence is increased bleeding risk and uncertain benefit.

Letters

RESEARCH LETTER

Effect of the 2014 Atrial Fibrillation Guideline Revisions on the Proportion of Patients Recommended for Oral Anticoagulation

In 2014, the American Heart Association, American College of Cardiology, and Heart Rhythm Society published a revised guideline for atrial fibrillation (AF) treatment recommending

<--

Invited Commentary

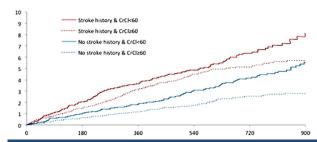
use of a refined stroke risk score and revised threshold for oral anticoagulation (OAC) initiation. We assessed the

potential effect of this new guideline by comparing the proportion of patients with AF recommended for OAC under the 2011 and 2014 guidelines, 1,2

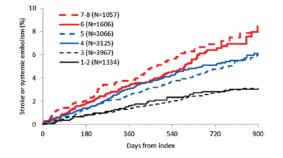




Risk Factor	Score
Renal Impairment	2
CHF/LV Dysfunction	1
A. Hypertension	1
Age >75	1
Diabetes Mellitus	1
Stroke/TIA	2



Adjusted cumulative incidence of stroke or non-central nervous system embolism according to prior stroke or transient ischemic attack and baseline creatinine clearance after adjustment for covariates.





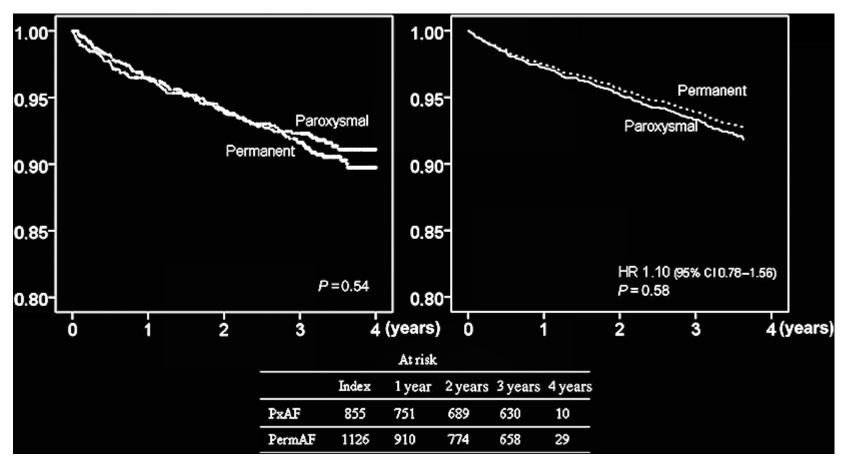
Cumulative incidence of stroke or non–central nervous system systemic embolism according to R2CHADS2 scores (R2CHADS2 indicates CHADS2 [risk stratification system that awards 1 point each for the presence of congestive heart failure, hypertension, age ≥75 years, and diabetes and 2 points for prior stroke or transient ischemic attack] + 2 points if creatinine clearance <60 mL/min).

Renal Dysfunction as a Predictor of Stroke and Systemic Embolism in Patients With Nonvalvular Atrial Fibrillation Validation of the R₂CHADS₂ Index in the ROCKET AF (Rivaroxaban Once-daily, oral, direct factor Xa inhibition Compared with vitamin K antagonism for prevention of stroke and Embolism Trial in Atrial Fibrillation) and ATRIA (Anticoagulation and Risk factors In Atrial fibrillation) Study Cohorts

Heart Association

Piccini JP et al. Circulation 2013;127:224-232

TIPI DI FA E RISCHIO EMBOLICO



Survival free from ischaemic stroke in paraoxysmal atrial fibrillation (AF) and permanent AF. Unadjusted incidence to the left, multivariably adjusted to the right





CHA₂DS₂-VASc



Recommendations	Class	Level
Oral anticoagulation therapy to prevent thromboembolism is recommended for all male AF patients with a CHA ₂ DS ₂ -VASc score of 2 or more.	I	A
Oral anticoagulation therapy to prevent thromboembolism is recommended in all female AF patients with a CHA ₂ DS ₂ -VASc score of 3 or more.	3 I	A
Oral anticoagulation therapy to prevent thromboembolism should be considered in male AF patients with a CHA_2DS_2 -VASc score of 1, considering individual characteristics and patient preferences.	IIa	В
Oral anticoagulation therapy to prevent thromboembolism should be considered in female AF patients with a CHA_2DS_2 -VASc score of 2, considering individual characteristics and patient preferences.	IIa	В
Vitamin K antagonist therapy (INR 2.0–3.0 or higher) is recommended for stroke prevention in AF patients with moderate-to-severe mitral stenosis or mechanical heart valves.	I	В
When oral anticoagulation is initiated in a patient with AF who is eligibl for a NOAC (apixaban, dabigatran, edoxaban, or rivaroxaban), a NOAC is recommended in preference to a Vitamin K antagonist.		A



CHA₂DS₂-VASc

Guideline and GARFIELD-AF risk groups

Based on CHA₂DS₂-VASc score – including 1 point for female gender

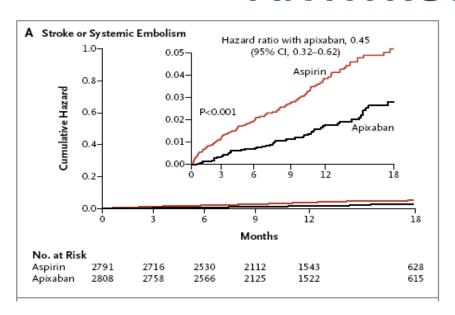
RISK GOUPS	CHA ₂ DS ₂ -VASc score		
And Guideline Recommendations	Men	Women	
Do not anticoagulate (ESC)	0	1	
Consider anticoagulation (ESC 2012)	1	-	
Consider anticoagulation (ESC 2016)	1	2	
Consider/not recommend anticoagulation (ESC 2016)	-	2	
Recommend anticoagulation (ESC 2012)	≥2	≥2	
Recommend anticoagulation (ESC 2016)	≥2	≥3	

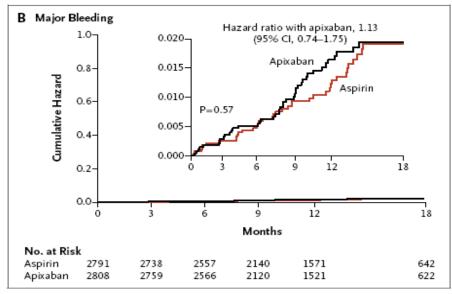






QUALE TRATTAMENTO ANTITROMBOTICO?





The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Apixaban in Patients with Atrial Fibrillation

Stuart J. Connolly, M.D., John Eikelboom, M.B., B.S., Campbell Joyner, M.D., Hans-Christoph Diener, M.D., Ph.D., Robert Hart, M.D., Sergey Golitsyn, M.D., Ph.D., Greg Flaker, M.D., Alvaro Avezum, M.D., Ph.D., Stefan H. Hohnloser, M.D., Rafael Diaz, M.D., Mario Talajic, M.D., Jun Zhu, M.D., Prem Pais, M.B., B.S., M.D., Andrzej Budaj, M.D., Ph.D., Alexander Parkhomenko, M.D., Ph.D., Petr Jansky, M.D., Patrick Commerford, M.B., Ch.B., Ru San Tan, M.B., B.S., Kui-Hian Sim, M.B., B.S., Basil S. Lewis, M.D., Walter Van Miegherm, M.D., Gregory Y.H. Lip, M.D., Jae Hyung Kim, M.D., Ph.D., Fernando Lanas-Zanetti, M.D., Antonio Gonzalez-Hermosillo, M.D., Antonio L. Dans, M.D., M.D., Martin O'Donnell, M.B., Ph.D., John Lawrence, M.D., Gayle Lewis, Rizwan Afzal, M.Sc., and Salim Yusuf, M.B., B.S., D.Phil., for the AVERROES Steering Committee and Investigators*





WARFARIN: EFFETTI

Stroke prevention in AF: VKAs vs antiplatelet therapy — Reduction of risk of thromboembolism in AF

Study, year

AFASAK I, 1989; 1990

AFASAK II, 1998

BAFTA study, 2007

Chinese ATAFS, 2006

EAFT, 1993

PATAF, 1999

SPAF II, 1994

Age ≤75 years

Age >75 years

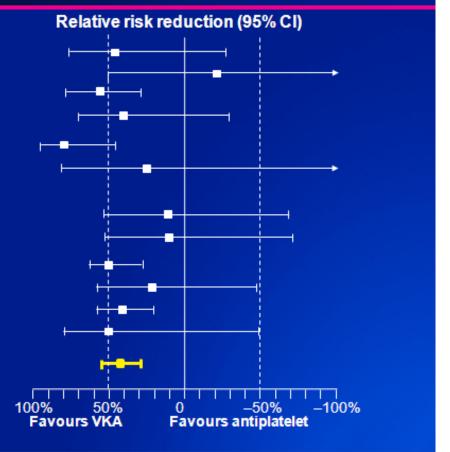
ASAtrials (n=9)

SIFA, 1997

ACTIVE-W, 2006

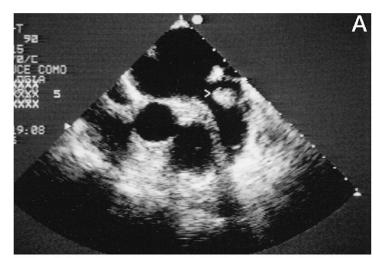
NASPEAF, 2004

All antiplatelet trials (n=12)









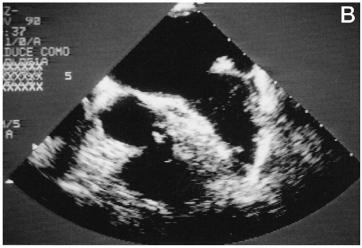


FIGURE 1. TEEs (horizontal plane) of the left atrium and left atrial appendage (patient No. 4 of the table). Panel A shows the left atrium and appendage in a 60-year-old woman affected by mitral stenosis and aortic regurgitation. The duration of atrial fibrillation was unknown. Note the pedunculated thrombus (white arrow) at the mouth of left atrial appendage. Panel B shows the same patient after 4 weeks of warfarin. The thrombus had completely resolved. Scant spontaneous echocontrast can be seen in left atrial appendage.

PERCHE' LA TAO FUNZIONA NELLA FA

Atrial Thrombi Resolution After Prolonged Anticoagulation in Patients With Atrial Fibrillation*

A Transesophageal Echocardiographic Study

Giovanni Corrado, MD; Giorgio Tadeo, MD; Sandro Beretta, MD; Luca Mario Tagliagambe, MD; Giovanni Foglia Manzillo, MD; Manuela Spata, MD; and Mauro Santarone, MD

Background: Cardioversion of atrial fibrillation in nonanticoagulated patients may be associated with clinical thromboembolism. Prolonged anticoagulation with warfarin before cardioversion of atrial fibrillation produces a marked reduction of cardioversion-related thromboembolism. The benefit of anticoagulant therapy is generally believed to be due to atrial thrombi organization. Patients and methods: Transesophageal echocardiography (TEE) is highly accurate for diagnosis of atrial thrombi and gives the possibility to serially evaluate the effects of anticoagulant therapy. One hundred twenty-three patients with atrial fibrillation lasting longer than 2 days underwent TEE before cardioversion. An atrial thrombus was identified in 11 patients (9%), and was always confined to the left atrial appendage. TEE was repeated after a median of 4 weeks of oral warfarin. Atrial thrombus had completely resolved in 9 of 11 patients (81.8%; 95% CI, 48.2 to 97.7%); in two patients, clot was still present. No patient had clinical thromboembolism between the two TEE studies.

Conclusions: In the population of our study, a prolonged course of warfarin therapy was associated with resolution of atrial thrombi in the majority of patients. According to these data, the mechanism of thromboembolism reduction with 4 weeks of anticoagulation before cardioversion in patients with atrial fibrillation seems to be related mainly to thrombus lysis rather than organization. Due to the possibility of thrombus persistence even after prolonged anticoagulation, follow-up with TEE before cardioversion is necessary to document thrombus resolution.

(CHEST 1999; 115:140-143)

Key words: anticoagulation; echocardiography; fibrillation

Abbreviations: AF = atrial fibrillation; TEE = transesophageal echocardiography; TTE = transthoracic echocardiography





ANTI VIT K. NON SEMPRE...

FAVORISCONO LA LISI ENDOGENA, PREVENGONO LA SOVRAPPOSIZIONE TROMBOTICA









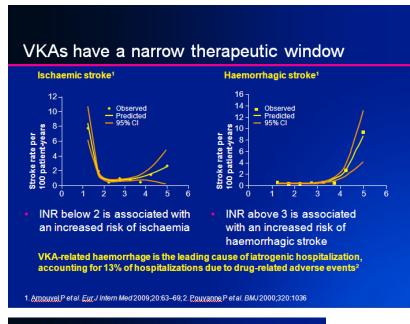
WARFARIN: LIMITI

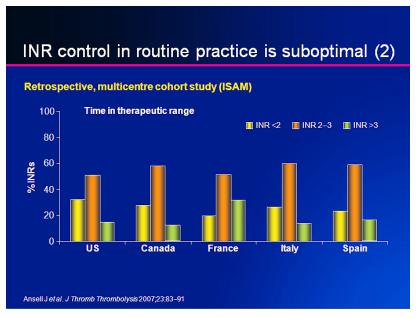
The limitations of VKA therapy

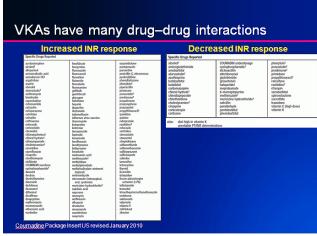
- Significant inter- and intra-patient variability in dose-response,¹ due to:
 - Co-morbid conditions
 - Genetic polymorphisms
 - Numerous interactions with food and concomitant drugs
 - Unpredictable pharmacology
- Narrow therapeutic window¹
 - Regular coagulation monitoring and dose adjustments required
 - Failure to stay within the therapeutic range increases the risk of stroke or adverse bleeding events²
- Underuse²⁻⁴
 - Fear of haemorrhage; intracranial haemorrhage is the most devastating bleeding event⁵
 - Particularly in elderly patients because of high perceived risk of bleeding versus possible benefits⁵
- 1. Ansell J et al. Chest 2008; 133:160S-198S; 2. Nieuwlaat R et al. Am Heart J 2007; 153:1006-1012;
- 3. Ogilvie IM et al. Am J Med 2010;123:638-645; 4. Nieuwlaat R et al. Eur Heart J 2005;26:2422-2434;
- 5. Waldo Aet al. J Am Coll Cardiol 2005;46:1729-1736



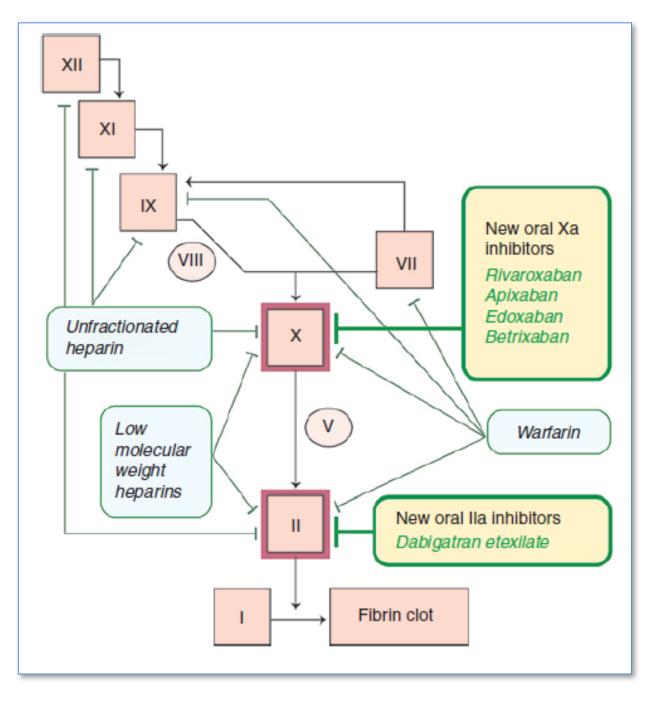
WARFARIN: LIMITI











ACs



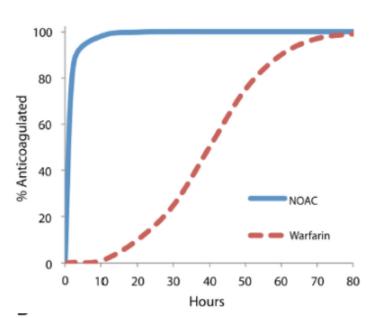
Mantha, S., Cabral, K. and Ansell, J. (2013), New Avenues for Anticoagulation in Atrial Fibrillation. Clinical Pharmacology & Therapeutics, 93: 68–77. doi: 10.1038/clpt.2012.197



NOACs: Pharmacodynamic/Kinetic properties

- Faster onset and offset of action than VKAs
- More predictable pharmacodynamic/kinetic properties than VKAs

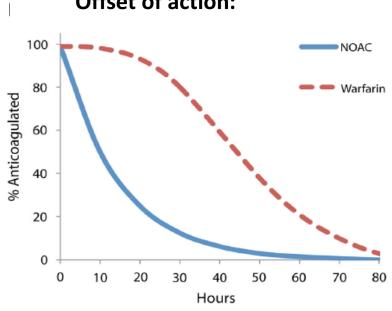
Onset of action:



Anticoagulant activity reached:

DOACs: hours (single dose) VKAs: days (multiple doses)

Offset of action:



Anticoagulant activity restored:

DOACs: within 24-48 hours after withdrawal VKAs: days





Oral anticoagulants for stroke prevention in atrial fibrillation: current status, special situations, and unmet needs

Pod Fresh W.A. Verbrage.

	RE-LY ⁵	ROCKET-AF	ARISTOTLE ⁷	ENGAGE-AF®
Drug	Dabigatran	Rivaroxaban	Apixaban	Edoxaban
Drug target	Factor IIa	Factor Xa	Factor Xa	Factor Xa
Renal clearance	~80%	~35%	~25%	~50%
Drug dosing	150 mg twice a day; 110 mg twice a day	20 mg once a day (15 mg for creatinine clearance <50 mL/min)	5 mg twice a day (2-5 mg when two of three following criteria are met: age ≥80 years, weight ≤60 kg, creatinine ≥1-5 mg/dL [133 µmol/L])	60 mg once a day (30 mg for creatinine clearance 30-50 mL/min, weight ±60 kg, or strong P-glycoprotein inhibitor
Drug metabolism	P-glycoprotein	P-glycoprotein and CYP3A4	P-glycoprotein and CYP3A4	P-glycoprotein
Mean CHADS score	2-1	3.5	2·1	2.8
Design	Open label (dabigatran vs warfarin)	Blinded	Blinded	Blinded

NOACs

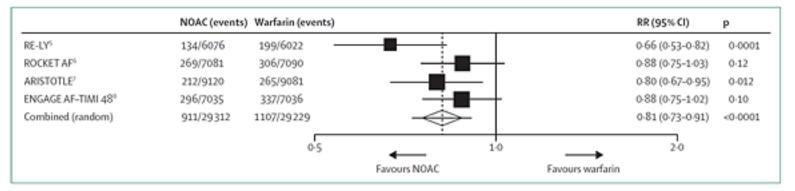


Figure 1: Stroke or systemic embolism in the four trials comparing non-vitamin K antagonist oral anticoagulants (NOACs) to warfarin in patients with atrial fibrillation RR=risk ratio. Reproduced from reference 12, by permission of Elsevier.



Quando preferire i NOACs?

- TTR basso
- Interazioni tra farmaci
- Storia di sanguinamento intracranico
- Problemi logistici
- Nuovi pazienti

Perchè preferire i NOACs?

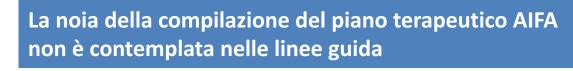
- Rapida insorgenza d'azione
- Effetto dose risposta prevedibile
- Emivita relativamente breve



Quando mantenere anti Vit-K?

- Buon livello dei controlli (TTR)
- Insuff. renale severa
- Protesi valvolari meccaniche (Eichelboom JW et al, N Eng J Med, 2013)
- Pregresso sanguinamento GI
- Scarsa aderenza ai NOAc
- Costi







COSTO-EFFICACIA

Amanda R. et al. Cost-effectiveness of apixaban, dabigatran, rivaroxaban, and warfarin for stroke prevention in atrial fibrillation. *Stroke* 2013;44.1676-1681

Table. Projected Costs, QALYs, and ICERs for Patients With Nonvalvular Atrial Fibrillation Receiving Anticoagulation Therapy

		Base Case			abilistic Sensitivity Analy	ysis
	Total Cost	QALY	ICER	Total Cost (SD)	QALY (SD)	ICER
Warfarin	\$77813	7.97	*	\$77 772 (\$2223)	7.97 (0.04)	*
Rivaroxaban, 20 mg	\$78738	8.26	\$3190/QALY	\$78719 (\$1852)	8.26 (0.06)	\$3266/QALY
Dabigatran, 150 mg	\$82719	8.41	\$11150/QALY	\$82 705 (\$1959)	8.41 (0.07)	\$11 211/QALY
Apixaban, 5 mg	\$85326	8.47	\$15026/QALY	\$85 337 (\$1512)	8.47 (0.06)	\$15 130/QALY

ICER indicates incremental cost-effectiveness ratio; QALY, quality-adjusted life-year; and SD, standard deviation.

Conclusions—In patients with nonvalvular atrial fibrillation and an increased risk of stroke prophylaxis, apixaban 5 mg, dabigatran 150 mg, and rivaroxaban 20 mg were all cost-effective alternatives to warfarin





^{*}Warfarin is the reference therapy for the ICER calculation.

PRESCRIZIONE NOACs: UN PERCORSO A OSTACOLI



Registri Farmaci sottoposti a Monitoraggio





Le immagini che seguono potrebbero urtare la vostra sensibilità

Per visualizzare la lista aggiornata dei Registri pubblicati nella nuova piattaforma si prega di consultare le pagine dedicate ai <u>Registri Farmaci sottoposti a Monitoraggio</u> nel portale istiluzionale dell'AIFA



RICHIESTA DI INFORMAZIONI FACILMENTE REPERIBILI E SECONDO LINEE GUIDA

Sto facendo un Píano Terapeutico per sostituire il warfarin con un nuovo anticoagulante orale. Sai come si fa a calcolare il TTR?

Non mí díre che vuoi essere il primo a non inventarselo!!!





SUL WEB ESISTONO PROGRAMMI MIGLIORI...

Inserire i criteri di eleggibilità CHA2DS2- VASc SCORE e HAS – BLED SCORE

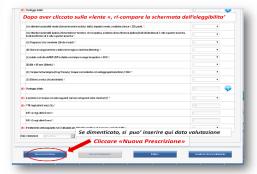
Inserimento Paziente con i dati anagrafici



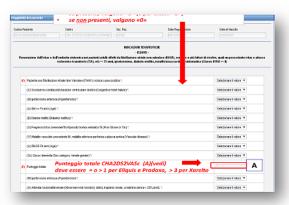




Nuova prescrizione









PIANO TERAPEUTICO NAO



La mia personalissima opinione......



IL MONDO REALE

	Ann	o 2011		Д	nno 2012		А	nno 2013		Anno 20	14 (Gen - Ot	tobre)
Fascia età	Femmine	Maschi	Totale	Femmine	Maschi	Totale	Femmine	Maschi	Totale	Femmine	Maschi	Totale
								- Sim				
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								THE STATE OF				
75 - 84 anni	3	1	4	6	4	10	59	54	113	88	74	162
85 - ed oltre	0	0	0	2	1	3	25	13	38	31	19	50
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TOTALE	16	13	29	31	24	55	141	142	283	180	197	377

... FANCULO

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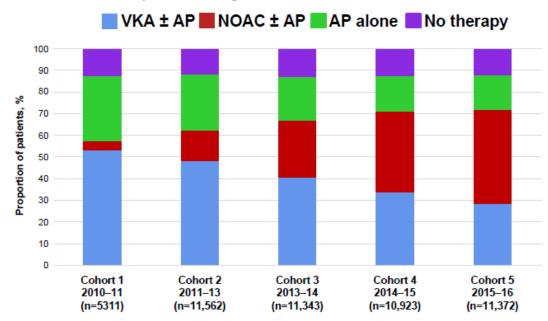
PRESCRIZIONE NOACS IN PROVINCIA DI COMO



REGISTRO GARFIELD (TRI)

Background – Published GARFIELD-AF data show an increase in the prescribing of anticoagulant therapy over time

Relative to NOACs, prescribing of VKAs has diminished since 2010



Camm et al. Heart 2016 (cohort 1-4); cohort 5 unpublished data

VKA, Vitamin K antagonist; NOAC, Non-VKA oral anticoagulant; AP, Antiplatelet



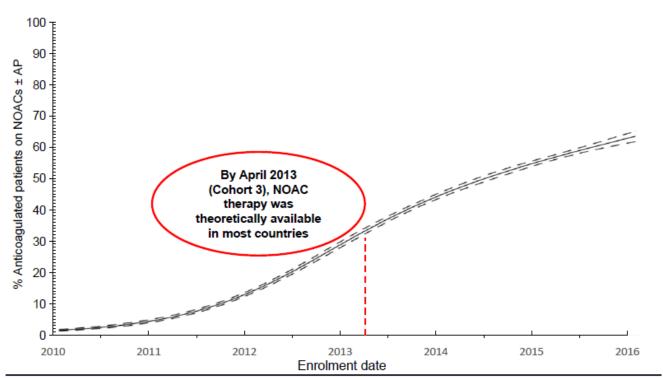




REGISTRO GARFIELD (TRI)

Background – Between March 2010 and July 2016, NOAC prescribing has risen from a median of 4% to 64% among anticoagulated patients

Analysis based on 37,127 patients from cohorts 1-5 who received anticoagulant (AC) ± antiplatelet (AP)





BASSE DOSI NEGLI STUDI

EU approval	Rivaroxaban ¹	Apixaban ²	Dabigatran ³	Edoxaban ⁴
Standard dose	20 mg od	5 mg bid	150 mg bid	60 mg od
Low dose	15 mg od	2.5 mg bid	110 mg bid	30 mg od
Criteria for low-dose use	◆ CrCl 15–49 ml/min	At least 2 of: ◆ Age ≥80 years ◆ Body weight ≤60 kg ◆ Serum creatinine ≥1.5 mg/dl	 Age ≥80 years Concomitant verapamil use Age 75–80 years* Moderate renal impairment* Gastritis, oesophagitis or GI reflux* Increased risk of bleeding* 	 ◆ CrCl 15–50 ml/min ◆ Body weight ≤60 kg ◆ Concomitant cyclosporine, dronedarone, erythromycin or ketoconazole use

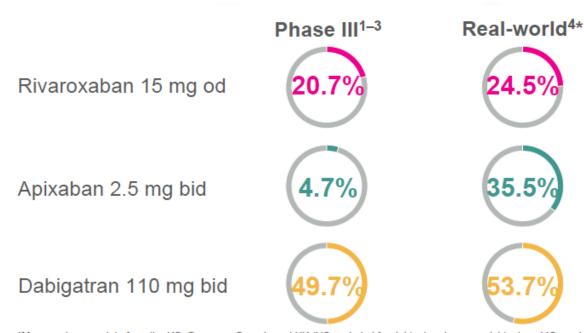
^{*}Low-dose dabigatran could be considered based on individual assessment of the thromboembolic risk and the risk of bleeding



^{1.} Rivaroxaban SmPC; 2. Apixaban SmPC; 3. Dabigatran SmPC; 4. Edoxaban SmPC

BASSE DOSI NEL MONDO REALE

Low-Dose Usage in the Real World Versus Clinical Trials



^{*}Mean and range: data from the US, Germany, Canada and UK (US excluded for dabigatran because dabigatran 110 mg dose not approved)



^{1.} Fox KAA et al, Eur Heart J 2011;32:2387-2394; 2. Granger GB et al, N Engl J Med 2011;365:981-992;

^{3.}Connolly SJ et al, N Engl J Med 2009;361:1139-1151; 4. IMS MIDAS. Q4 2015; 5. Lip GYH et al, Thromb Haemost 2014;111:933-994

COME NON ESSERE D'ACCORDO?

• È molto meglio essere giovani, belli, ricchi e in buona salute, piuttosto che essere vecchi, brutti, poveri e malati

M. Catalano. "Quelli della notte" di Renzo Arbore. Ed RAI

I farmaci non funzionano nei pazienti che non li assumono

Orsterberg L and Blaschke T, N Engl J Med 2005;353:487-97





... O CHE NON LI ASSUMONO CORRETTAMENTE

Eur J Echocardiography (2004) 5, 257-261





CLINICAL/ORIGINAL PAPERS

Prevalence of atrial thrombi in patients with atrial fibrillation/flutter and subtherapeutic anticoagulation prior to cardioversion

G. Corrado^{a, *}, S. Beretta^b, L. Sormani^a, G. Tadeo^a, G. Foglia-Manzillo^a, L.M. Tagliagambe^a, M. Santarone^a

^aUnità Operativa di Cardiologia, Ospedale Valduce, Como, Italy ^bUnità Operativa di Neurologia, AO Ospedale Civile di Vimercate, Italy

Received 13 March 2003; received in revised from 17 June 2003; accepted 26 June 2003

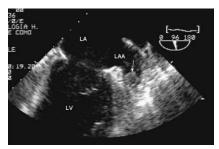
KEYWORDS

Anticoagulation; Echocardiography; Fibrillation. Abstract Aims Thromboembolism may complicate electrical cardioversion (ECV) of atrial fibrillation/flutter (AF). The use of 3 weeks of warfarin before ECV results in a substantial reduction of thromboembolic complications. Nevertheless, in patients scheduled for ECV subtherapeutic INR levels are common. We sought to assess the prevalence and the predictors of atrial thrombi in patients affected with sustained AF in whom subtherapeutic INR values were detected in the 3 weeks preceding scheduled ECV.

Methods and results Forty-one patients with persistent AF and ≥ 3 weeks warfarin anticoagulation who exhibited subtherapeutic INR values in the last 3 weeks underwent a transoesophageal echocardiogram (TOE) before a scheduled ECV. A left atrial appendage (LAA) thrombus was diagnosed on TOE in four patients (9.8%). Patients with thrombus had lower INR values (1.45 \pm 0.09 vs 1.72 \pm 0.20; p=0.0068), lower LAA emptying velocities (13.75 \pm 4.5 vs 25.86 \pm 12.4 cm/s; p=0.0313) and higher prevalence of atrial smoke (100 vs 37.8%, p=0.031).

Conclusions Subtherapeutic levels of anticoagulation before elective ECV of AF may expose patients to post-ECV thromboembolic sequelae, especially in patients with lowest INR values. Current recommendations of a full course of therapeutic anticoagulation before ECV of persistent AF should be firmly observed.

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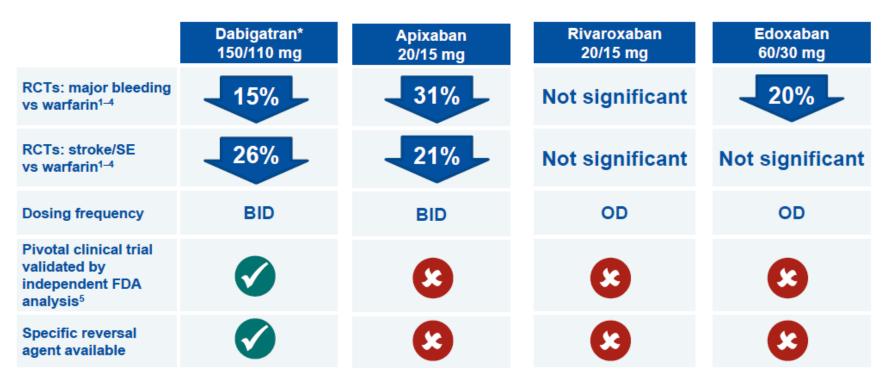
Orsterberg L and Blaschke T, N Engl J Med 2005;353:487-97

	No LAA thrombi		LAA throm	<i>p</i> Value	
	tilloili	וט			value
Number of patients	37	(90.2%)	4	(9.8%)	
Age (years)	64.35	(± 10.28)	66.25	(± 0.96)	NS
Male gender	23	(62%)	2	(50%)	NS
Hypertension	20	(54%)	2	(50%)	NS
Digitalis use	13	(35%)		(75%)	NS
Structural	20	(54%)	3	(75%)	NS
heart disease					
Atrial	32	(86%)	4	(100%)	NS
fibrillation					
Atrial flutter	5	(14%)		0	NS
INR minimum value	1.72	(±0.20)	1.45	(± 0.09)	0.0068
LVEF (%)	54.91	(± 10)	55.5	(± 16.4)	NS
LVFS (%)	33.95	(± 9.7)	35	(±8.8)	NS
LA diameter (mm)	43.57	(±8.2)	42.75	(±10.4)	NS
LAA emptying velocity (cm/s)	25.86	(±12.4)	13.75	(±4.5)	0.0313
velocity (cm/s)	28.42	(±14.9)	13.75	(±10.4)	0.0326
LA/LAA echo- contrast	14/37	(38%)	4/4	(100%)	0.030

LA, left atrium; LAA, left atrial appendage; LVEF, left ventricle ejection fraction; LVFS, left ventricle fractional shortening.



IL MONDO REALE



No head-to-head RCT comparison. *Efficacy and safety outcomes if the two approved doses for stroke prevention in AF are used according to the EU label. RCT, randomized controlled trial

- 1. Lip et al. Thromb Haemost 2014; 2. Patel et al. N Engl J Med 2011; 3. Granger et al. N Engl J Med 2011; 4. Giugliano et al. N Engl J Med 2013;
- 5. Graham et al. Circulation 2016



CLINICAL RESEARCH

Thombosis and antithrombotic therapy

Ischaemic and haemorrhagic stroke associated with non-vitamin K antagonist oral anticoagulants and warfarin use in patients with atrial fibrillation: a nationwide cohort study

Laila Staerk¹*, Emil Loldrup Fosbøl^{2,3}, Gregory Y.H. Lip⁴, Morten Lamberts^{1,2}, Anders Nissen Bonde¹, Christian Torp-Pedersen⁵, Brice Ozenne⁶, Thomas Alexander Gerds⁶, Gunnar Hilmar Gislason^{1,3,7,8}, and Jonas Bjerring Olesen^{1,9}

Dipartment of Cardiology, Caperhagen University Hospital Herice and Gentula, Part 635, Klötgardenj 38, 2900 Helinrap, Demantir "Dipartment of Cardiology, Caperhagen University Hospital Replication, 200 Caperhagen Schematic, 190 Caperhagen Schematic, 19

IL MONDO REALE

Background	Non-vitamin K antagonist (VKA) oral anticoagulants (NOACs) are widely used as stroke prophylaxis in non-valvular atrial fibrillation (AF), but comparative data are sparse.
Purpose	To compare dabigatran, rivaroxaban, and apixaban vs. VKA and the risk of stroke/thromboembolism (TE) and intra- cranial bleeding in AF.
Methods	Using Danish nationwide registries (2011–15), anticoagulant-naïve AF patients were identified when initiating VKA or an NOAC. Outcomes were stroke/TE and intracranial bleeding. Multiple outcome-specific Cox regression was performed to calculate average treatment effects as standardized differences in 1-year absolute risks.
Results	Overall, 43 299 AF patients initiated VKA (42%), dabigatran (29%), rivaroxaban (13%), and apixaban (16%). Mean CHA ₂ DS ₂ -VASc (SD) score was: VKA 2.9 (1.6), dabigatran 2.7 (1.6), rivaroxaban 3.0 (1.6), and apixaban 3.1 (1.6). Within patient-specific follow-up limited to the first 2 years, 1054 stroke/TE occurred and 261 intracranial bleedings. Standardized absolute risk (95% CI) of stroke/TE at 1 year after initiation of VKA was 2.01% (1.80% to 2.21%). In relation to VKA, the absolute risk differences were for dabigatran 0.11% (-0.16% to 0.42%), rivaroxaban 0.05% (-0.33% to 0.48%), and apixaban 0.45% (-0.001% to 0.93%). For the intracranial bleeding outcome, the standardized absolute risk at 1 year was for VKA 0.60% (0.49% to 0.72%); the corresponding absolute risk differences were for dabigatran -0.34% (-0.47% to -0.21%), rivaroxaban -0.13% (-0.33% to 0.08%), and apixaban -0.20% (-0.38% to -0.01%).
Conclusions	Among anticoagulant-naïve AF patients, treatment with NOACs was not associated with significantly lower risk of stroke/TE compared with VKA, but intracranial bleeding risk was significantly lower with dabigatran and apixaban.
Keywords	Atrial fibrillation • Stroke • NOACs • Dabigatran • Rivaroxaban • Apixaban

IL MONDO REALE

ORIGINAL RESEARCH



Effectiveness and Safety of Dabigatran, Rivaroxaban, and Apixaban Versus Warfarin in Nonvalvular Atrial Fibrillation

Xiaoxi Yao, PhD; Neena S. Abraham, MD, MSCE; Lindsey R. Sangaralingham, MPH; M. Fernanda Bellolio, MD, MS; Robert D. McBane, MD; Nilay D. Shah, PhD; Peter A. Noseworthy, MD

Background—The introduction of non–vitamin K antagonist oral anticoagulants has been a major advance for stroke prevention in atrial fibrillation; however, outcomes achieved in clinical trials may not translate to routine practice. We aimed to evaluate the effectiveness and safety of dabigatran, rivaroxaban, and apixaban by comparing each agent with warfarin.

Methods and Results—Using a large US insurance database, we identified privately insured and Medicare Advantage patients with nonvalvular atrial fibrillation who were users of apixaban, dabigatran, rivaroxaban, or warfarin between October 1, 2010, and June 30, 2015. We created 3 matched cohorts using 1:1 propensity score matching: apixaban versus warfarin (n=15 390), dabigatran versus warfarin (n=28 614), and rivaroxaban versus warfarin (n=32 350). Using Cox proportional hazards regression, we found that for stroke or systemic embolism, apixaban was associated with lower risk (hazard ratio [HR] 0.67, 95% CI 0.46–0.98, P=0.04), but dabigatran and rivaroxaban were associated with a similar risk (dabigatran: HR 0.98, 95% CI 0.76–1.26, P=0.98; rivaroxaban: HR 0.93, 95% CI 0.72–1.19, P=0.56). For major bleeding, apixaban and dabigatran were associated with lower risk (apixaban: HR 0.45, 95% CI 0.34–0.59, P<0.001; dabigatran: HR 0.79, 95% CI 0.67–0.94, P<0.01), and rivaroxaban was associated with a similar risk (HR 1.04, 95% CI 0.90–1.20], P=0.60). All non–vitamin K antagonist oral anticoagulants were associated with a lower risk of intracranial bleeding.

Conclusions—In patients with nonvalvular atrial fibrillation, apixaban was associated with lower risks of both stroke and major bleeding, dabigatran was associated with similar risk of stroke but lower risk of major bleeding, and rivaroxaban was associated with similar risks of both stroke and major bleeding in comparison to warfarin. (*J Am Heart Assoc.* 2016;5:e003725 doi: 10.1161/JAHA.116.003725)

Key Words: atrial fibrillation • bleeding • non-vitamin K antagonist oral anticoagulants • stroke • warfarin



IL MONDO REALE

PHARMACOEPIDEMIOLOGY AND DRUG SAFETY 2016

Published online in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/pds.4034

ORIGINAL REPORT

Rivaroxaban versus warfarin and dabigatran in atrial fibrillation: comparative effectiveness and safety in Danish routine care[†]

Anders Gorst-Rasmussen^{1,2*}, Gregory Y. H. Lip^{2,3} and Torben Bjerregaard Larsen^{2,4}

ABSTRACT

Purpose To evaluate effectiveness and safety of rivaroxaban versus warfarin or dabigatran etexilate in a prospective cohort of routine care non-valvular atrial fibrillation (AF) patients during February 2012 to August 2014.

Methods We identified in nationwide health registries a cohort of AF patients who were new-users of rivaroxaban 15 mg (R15) or 20 mg (R20); dabigatran 110 mg (D110) or 150 mg (D150); or warfarin. Propensity-adjusted Cox regression was used to compare outcome rates in four settings: 'R15 vs. warfarin'; 'R15 vs. D110'; 'R20 vs. warfarin'; and 'R20 vs. D150'.

Results Rivaroxaban users (R15: n=776; R20: n=1629) were older and with more comorbidities than warfarin (n=11045) and dabigatran users (D110: n=3588; D150: n=5320). Rivaroxaban 15-mg users had the overall highest crude mortality rate. After propensity adjustment, rivaroxaban had lower stroke rates vs. warfarin (R15: hazard ratio [HR] 0.46, 95% confidence interval [CI]: 0.26-0.82; R20 HR: 0.72, 95%CI: 0.51-1.01), and similar stroke rates vs. dabigatran. The bleeding rate was similar to warfarin and moderately higher vs. dabigatran (R15 vs. D110 HR: 1.28, 95%CI: 0.82-2.01; R20 vs. D150 HR: 1.81, 95%CI: 1.25-2.62). The mortality rate was higher vs. dabigatran (R15 vs. D110 HR: 1.43, 95%CI: 1.13-1.81; R20 vs. D150 HR: 1.52, 95%CI: 1.06-2.19).

Conclusions Rivaroxaban was associated with similar or lower stroke rates, but higher bleeding and mortality rates. Channeling of rivaroxaban towards elderly and less healthy patients may have generated residual confounding. In particular, our findings cannot stand alone when deciding which oral anticoagulant to prescribe. Copyright © 2016 John Wiley & Sons, Ltd.

KEY WORDS—rivaroxaban; oral anticoagulation; atrial fibrillation; stroke; bleeding; pharmacoepidemiology

Received 21 August 2015; Revised 21 March 2016; Accepted 23 April 2016

KEY POINTS

- Head-to-head comparisons of new oral anticoagulants in atrial fibrillation are limited
- Using Danish nationwide health registries and propensity score methods, we compared outcome rates with rivaroxaban to outcome rates with dabigatran and warfarin
- We found similar or lower stroke rates with rivaroxaban, but higher a mortality
- Findings should be interpreted cautiously, as they may be driven by selective prescribing



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Department of Cardiology, Atrial Fibrillation Study group, Aalborg University Hospital, Aalborg, Denmark



FASTIRA ESC Clinical Regist

Atrial fibrillation

XANTUS: a real-world, prospective, observational study of patients treated with rivaroxaban for stroke prevention in atrial fibrillation

A. John Camm¹*, Pierre Amarenco², Sylvia Haas², Susanne Hess⁴, Paulus Kirchhof^{5,6}, Silvia Kuhis², Martin van Eickels⁴, and Alexander G.G. Turpie⁸, on behalf of the XANTUS Investigators

Conformation and Cell Sciences Neuroth Institute, S. Goognit, University of London, Commer Tenness, SWVT/IRE London, UK/Chippetrement of Neurology and Open Sciences (Institute of London, UK/Chippetrement of Neurology and Service). Genomer, "Solicel Institute Michael Address, Bayer Health Goorn Pannassystation, Berlin, Genomer, "Control Conformation, Genomer, "Control Conformation, Control Conformation, Control Conformation, Control Conformation, Control Conformation, Control Conformation, Control Conformation, Conf

Received 27 July 2015; revised 11 August 2015; accepted 20 August 2015; online publish-cheos/of-print 1 September 20 See page 1154 for the editorial comment on this article (doi:10.1093/eurhesartijehv532)

IL MONDO REALE

Aims

Although non-vitamin K antagonist oral anticoagulants are recommended for stroke prevention in patients with non-valvular atrial fibrillation (NVAF) based on clinical trial results, there is a need for safety and efficacy data from unselected patients in everyday clinical practice. XANTUS investigated the safety and efficacy of the Factor Xa inhibitor rivaroxaban in routine clinical use in the NVAF setting.

Methods and results

Consecutive consenting patients with NVAF newly started on rivaroxaban were eligible and were followed up at \sim 3-month intervals for 1 year, or for at least 30 days after permanent discontinuation. All adverse events (AEs) were recorded as AEs or serious AEs; major outcomes (including major bleeding, symptomatic thromboembolic events [stroke, systemic embolism, transient ischaemic attack, and myocardial infarction], and all-cause death) were centrally adjudicated. There were 6784 patients treated with rivaroxaban at 311 centres in Europe, Israel, and Canada. Mean patient age was 71.5 years (range 19–99), 41% were female, and 9.4% had documented severe or moderate renal impairment (creatinine clearance <50 mL/min). The mean CHADS2 and CHA2DS2-VASc scores were 2.0 and 3.4, respectively; 859 (12.7%) patients had a CHA2DS2-VASc score of 0 or 1. The mean treatment duration was 329 days. Treatment-emergent major bleeding occurred in 128 patients (2.1 events per 100 patient-years), 118 (1.9 events per 100 patient-years) died, and 43 (0.7 events per 100 patient-years) suffered a stroke.

Conclusion

XANTUS is the first international, prospective, observational study to describe the use of rivaroxaban in a broad NVAF patient population. Rates of stroke and major bleeding were low in patients receiving rivaroxaban in routine clinical practice.

Trial registration Clinicaltrials.gov: NCT01606995.

number

Keywords

Anticoagulants • Atrial fibrillation • Real world • Rivaroxaban • Stroke • Thromboembolism



EFFETTI DELLA TERAPIA ANTICOAGULANTE SULLA TROMBOSI AS/AuS

Supplementary Table I. Published studies on LA/LAA thrombus on echocardiography and resolution with anticoagulation							
Study	Anticoagulant	Findings					
Akdeniz et al ⁵³ (observational)	Warfarin (target INR 2.0-3.0)	• Thrombus was observed in 32 (15.4%) of 208 patients after 4-6 wk of warfarin therapy • Of the 11 patients who underwent a control TEE, 7 (63.6%) exhibited thrombus resolution					
Collins et al ¹⁵ (observational)	Warfarin (target INR 2.0-2.8)	Thrombus resolution in 86% of patients with AF after 4 wk of warfarin therapy					
Seidl et al ¹⁷ (single-center observational)	Warfarin (target INR 2.0-3.0)	 Thrombus was observed in the left atrium of 55 (7.7%) of the 719 patients in the TEE-guided group All 55 patients had their INR increased to 3-3.5 for 4 wk, and resolution of the LA thrombus was detected on TEE in 55% of patients 					
Corrado et al ⁴ (observational)	Warfarin (target INR ≥2)	 Low resolution rate explained partially by the inclusion of patients with valvular AF (nearly one-third of study population) Resolution of atrial thrombi after 4 wk of warfarin therapy in 9 (81.8%) of 11 patients (95% CI 48.2-97.7%) 					
Jaber et al ¹⁶ (observational)	Warfarin (mean INR 2.2) or heparin	• 174 patients with thrombi in LAC and LAA. 161 patients received anticoagulant therapy for 47 ± 18 d					
Fukuda et al ⁵⁴ (observational)	Warfarin (target INR ≥2)	 80% success in resolving LAC and LAA thrombi as demonstrated by follow-up TEE. Better success in resolving LAA thrombi (82.5%) vs LAC thrombi (53.3%) 148 patients on warfarin therapy for >3 wk with subtherapeutic anticoagulation (INR 1.9 ± 0.7) LA thrombus was observed on TEE in 13 (8.8%) patients with nonvalvular AF 					
Nagarakanti et al ⁵ (RE-LY, post hoc analysis)	Dabigatran 110 mg bid (D110); dabigatran 150 mg bid (D150); warfarin	 LA thrombus was observed in 3 (3.6%) of 83 patients with sufficient anticoagulation (>3 wk) 165 patients on D110 therapy, 162 patients on D150 therapy, and 88 patients on warfarin therapy were assessed using TEE 1.8% of D110 patients, 1.2% of D150 patients, and 1.1% of warfarin patients were positive for LA thrombi 					
Vidal et al ²² (case study)	Dabigatran 150 mg bid	Thrombus resolution not reported 59-year-old White woman had LAA thrombus detected by TEE Unable to achieve therapeutic INR with warfarin therapy so switched to dabigatran					
Hammerstingl et al ²⁴ (case study)	Rivaroxaban 15 mg od	 Resolution of thrombus achieved after 7 wk of dabigatran treatment 64-year-old man with LAA thrombus detected by TEE 4 wk of treatment with rivoroxaban was associated with decrease in thrombus size 					
Takasugi et al ²⁵ (case study)	Rivaroxaban 10 mg od	 Complete thrombus resolution was identified after 6 wk of therapy 3 patients (2 males, 1 female) had presence of LAA thrombi detected by TEE Treatment with rivaroxaban led to resolution of thrombus within 8-33 d 2 patients had resolution after 8 d of therapy, with the other patient showing a 					
Kawakami et al ²⁶ (case study)	Apixaban 5 mg bid	reduction in thrombus size after 21 d and resolution after 33 d of therapy 72-year-old man with LAA thrombus identified by TEE					
Dobashi et al ²⁷ (case study)	Apixaban 2.5 mg bid	 16 d of apixaban treatment led to complete thrombus resolution 86-year-old man with LA thrombus detected through TEE 11 wk of apixaban treatment resulted in almost complete thrombus resolution 					
Abbreviations: bid, twice daily; od,	once daily; LAC, left atrial cavity.						

Rationale and design of a study exploring the efficacy of once-daily oral rivaroxaban (X-TRA) on the outcome of left atrial/left atrial appendage thrombus in nonvalvular atrial fibrillation or atrial flutter and a retrospective observational registry providing baseline data (CLOT-AF)

Gregory Y. H. Lip, M.D.* Christoph Hammerstingl, M.D.* Prancisco Marin, M.D.* Ricardo Cappato, M.D.* Isabelle Ling Meng, M.D. Ph.D.* Bold Kirsch, M.S.* Eolo Morandi, M.D.* Martin van Eickels, M.D.* and Ariel Cohen, M.D. Ph.D.* End Kirsch M.D.* End M.D.* End





Left atrial thrombus resolution in atrial fibrillation or flutter: Results of a prospective study with rivaroxaban (X-TRA) and a retrospective observational registry providing baseline data (CLOT-AF) CrossMark

Gregory V. H. Lip, MD, ** Christoph Hammerstingl, MD, * Francisco Marin, MD, * Riccardo Cappato, MD, * Isabelle Ling Meng, MD, * Bodo Kirsch, MSc. * Martin van Elckels, MD, * and Ariel Cohen, MD*, on behalf of the X-TRA study and CLOT-AF registry investigators * Birminghom, United Kingdom, Anhorg, Denmark; Boun, Germany, Marcia, Spaline Rozzamo, Indiy, Berlin, Germany; Marcia, Spaline Rozzamo, Indiy, Berlin, Germany; and Paris, France

Background: Data on left arial/left entrial appendage (IA/AA) frombus resolution ofter non-viranin K ortagonist (VKA) and anticographen terement or as score. The primary accesses the primary was to explore the use of rivarousbon the resolution of IA/IAA frombus in patients with nonvolvular airial fibrillation (IAF) or airial flutter, with the CLOTAF registry providing retraceporetive data after standard-deface therapy in this setting.

Methods X.TRA was a prospective, single-orm, openicbell, multicontex study that investigated rivarranchon treatment for 6 weeks for IA/IAA thrombus resolution in patients with nonenholds AF or start fill little and IA/IAA thrombus certifiend at boseline on a tomosphageal echocardingorm (IEE). COIAF retrispectively collected thrembuserieded prieter utvacare data after standard-close anticogulant treatment for 3 to 12 weeks in patients with nonvatrular AF or artial flutter who had IA/IAA thrombus IEE recorded in their medical file.

Results in XTRA, patients were predominantly (95.0%) from Eastern European countries. The odjudicated thrombus resolution rate was 41.5% (22.2%) modified intertain-breat [mill] pointers, 95% CI 28.1%-55.9%] board or certail TEL consuments. Resulved or reduced thrombus wave ident in 0.04.1% (22.0%) and IT patients, 95% CI 4.0.0%-73.6%) optients. In CLOTA-f, the reported thrombus resolution rate was 0.2.5% (60/96 mill pointers), position of the consumer intertaint in the consum

Conclusion XTRA is the first prospective, multicenter study examining LA/LAA thrombus resolution with a non-VKA oral anticogulant in VKA-native potients or in patients with suboptimal VKA therapy. Rivaroxaban could be a potential option for the treatment of LA/LAA thrombi. (Am Heart J2 161-178-182-64.)

APIXABAN AND LA/LAA THR. RESOLUTION

Table II. Resolution rates of LA/LAA thrombi									
			Thrombus resolu						
	Evaluation set	Total n	n thrombus resolved	%	95% CI				
Prospective X-TRA study									
Complete thrombus resolution (assessed by blinded adjudicators)*	mlTT	53	22	41.5	28.1-55.9				
Complete thrombus resolution (assessed by blinded adjudicators), worst-case	lΠ	60	22	36.7	24.6-50.1				
scenario considering subjects without EÓT TEE as nonresolved									
Resolved or reduced thrombus (assessed by blinded adjudicators) [†]	mlTT	53	32	60.4	46.0-73.6				
Retrospective CLOT-AF registry									
Complete thrombus resolution	mlTT	96	60	62.5	52.0-72.2				
Complete thrombus resolution by region									
Eastern Europe	mlTT	46	26	56.5	41.1-71.1				
Western Europe	mlTT	50	34	68.0	53.3-80.5				
Complete thrombus resolution, worst-case scenario considering subjects	IΠ	156	60	38.5	30.8-46.6				
without EOT TEE as nonresolved									
Complete thrombus resolution, best-case scenario considering subjects	IΠ	156	120	76.9	69.5-83.3				
without EOT TEE as resolved									

^{*}This includes 2 patients who had 2 thrombi each. Both thrombi were resolved in each case.

[†] In 12 patients (22.6%), thrombi were larger, and in another 9 patients (17.0%), thrombi were found unchanged (blinded central assessment); no patients had a new thrombus.



CONCLUSIONI

- I NOACs rappresentano un reale vantaggio clinico nei pazienti con FA non valvolare
- La stratificazione del rischio TE va effettuata secondo lo score CHA2DS2-VASc
- Il loro utilizzo vs. anti vitK è cost-effective
- I dosaggi da utilizzare devono essere conformi alle raccomandazioni desunte dagli studi
- La necessità in Italia di un piano terapeutico costituisce a mio avviso un inutile appesantimento burocratico e un freno irragionevole all'impiego più estensivo di questi farmaci.
- Non vi sono a mio avviso dati certi circa la superiorità di un NOAC verso un altro. Le linee guida attuali consentono l'uso di tutte le molecole disponibili.





IX CONGRESSO NAZIONALE IX CONGRESSO

IX CONGRESSO NAZIONALE FCOCARDIOCHIRURGIA 2017

28 - 29 <mark>MARZO 2017 MILANO, 27 - 28 - 29 MARZO 2017 MILANO, 27 - 28 - 29 MARZO 20</mark>17 MILANO LANO, 27 - 28 - 29 MARZO 2017 MILA<u>NO, 27 - 28 - 29 MARZO 2017 MILANO, 27 - 28 - 29 MARZO 2</u>0







GRAZIE PER LA VOSTRA ATTENZIONE

G Corrado, MD, FANMCO, FESC Unità Operativa di Cardiologia Ospedale Valduce – Como (IT)





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