

I Nuovi farmaci per la TAO: *novità terapeutiche nel controllo del rischio cardiovascolare*

APPROCCI INTERDISCIPLINARI IN REUMATOLOGIA
2ª edizione
MANIFESTAZIONI CARDIOVASCOLARI
E METABOLICHE IN REUMATOLOGIA



TORINO, 4-5 aprile 2014

Piercarla Schinco

**SSCVD Mal. Trombotiche/Emorragiche
Ospedale Molinette
Torino**



ASO SAN GIOVANNI BATTISTA DI TORINO

UNIVERSITÀ
DEGLI STUDI
DI TORINO
ALMA UNIVERSITAS
TAURINENSIS



LIMITATIONS OF CURRENT ANTICOAGULANTS

WARFARIN

Drawbacks:

- Only oral
- Not for acute treatment
- Narrow therapeutic window
- Unpredictable response
- Requires frequent monitoring

HEPARINS (UF + LMWH)

Drawbacks:

- Only injectable
- *Only for UF*: requires monitoring
- Not convenient for long-term use
- HIT

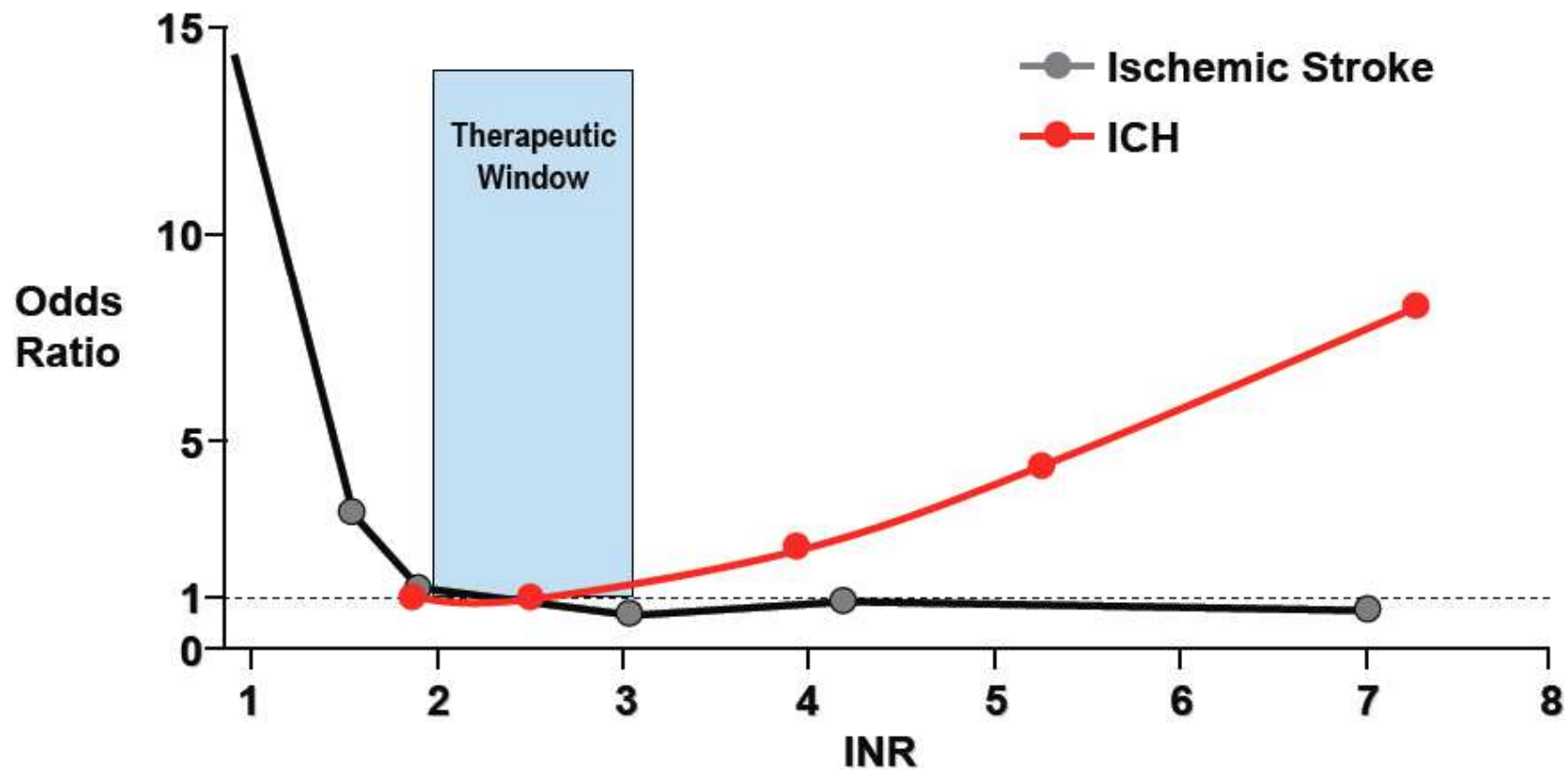
***NEW ANTICOAGULANTS NEEDED
SPECIFICALLY ORAL***

Warfarin is One of the Most Common Drugs Associated With Adverse Events

- One of the 5 most common drug classes implicated in AEs
- One of the 5 most common drugs implicated in hospitalizations due to AEs
- Insulin and warfarin are implicated in 1 in every 7 estimated AEs treated in EDs
- In patients ≥ 65 yrs insulin, warfarin and digoxin are implicated in 1 in every 3 estimated AEs treated in EDs
- Insulin or warfarin is implicated in more than 25% of all estimated hospitalizations due to AEs

Warfarin Has a Narrow Therapeutic Window

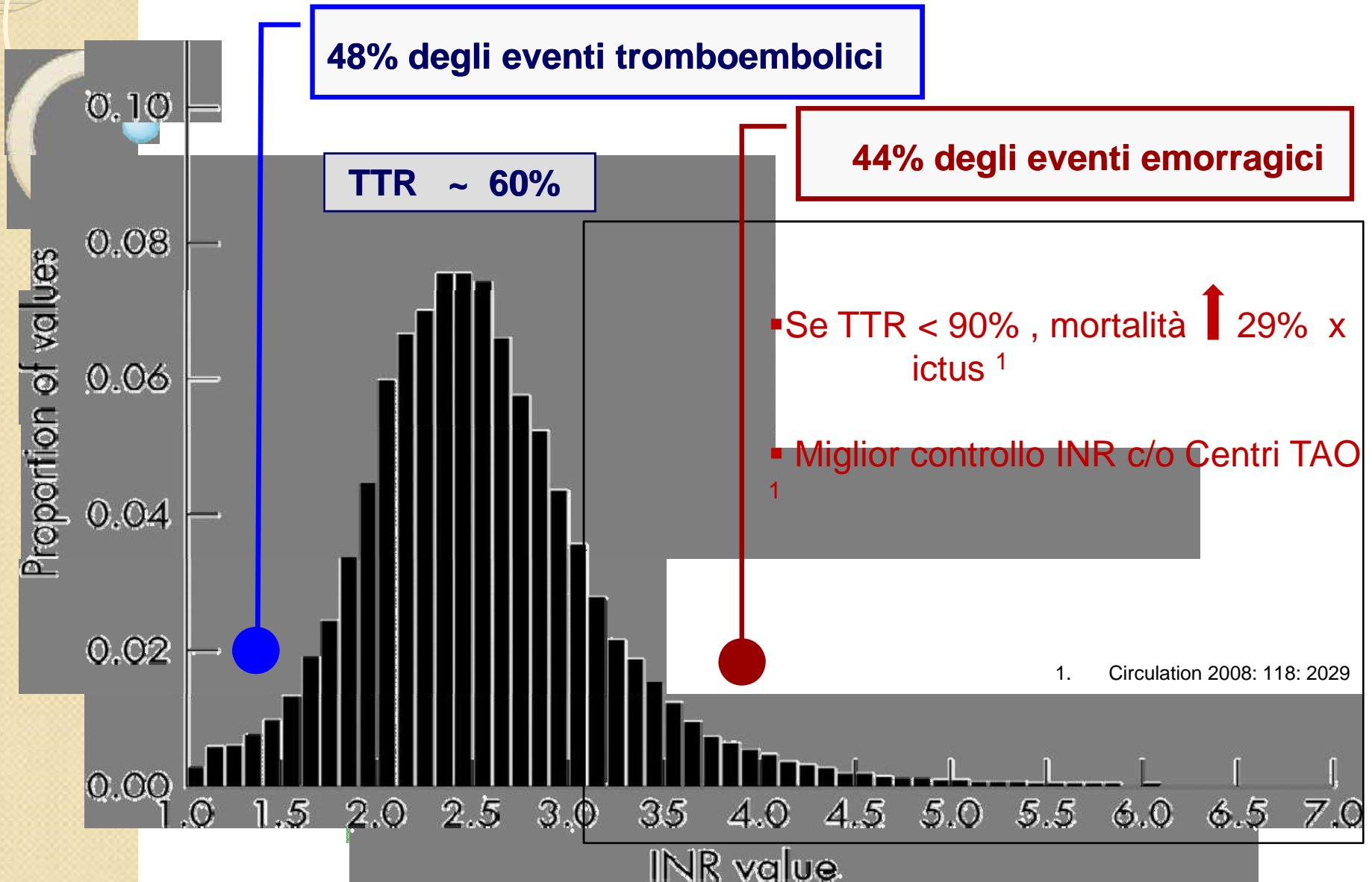
Relationship Between Clinical Events and INR Intensity in Patients with Atrial Fibrillation



1. Hylek EM et al. *Ann Intern Med.* 1994;120:897.
2. Hylek EM et al. *N Engl J Med.* 1996;335:540.

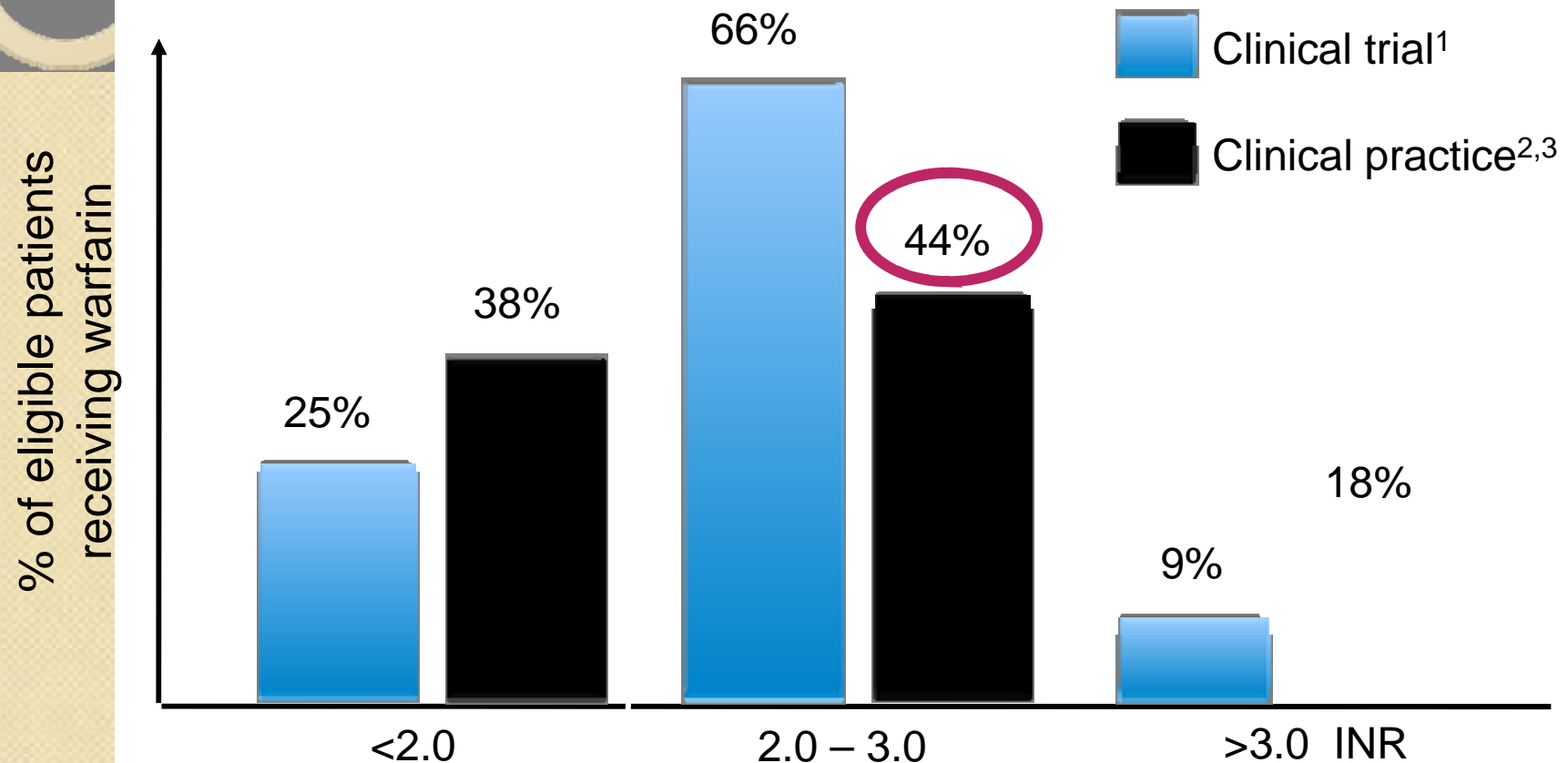
Frequency of adverse events in patients with poor anticoagulation: a meta-analysis

TEMPO in RANGE TERAPEUTICO



INR control: clinical trials v. clinical practice

INR* control in clinical trial versus clinical practice (TTR**)

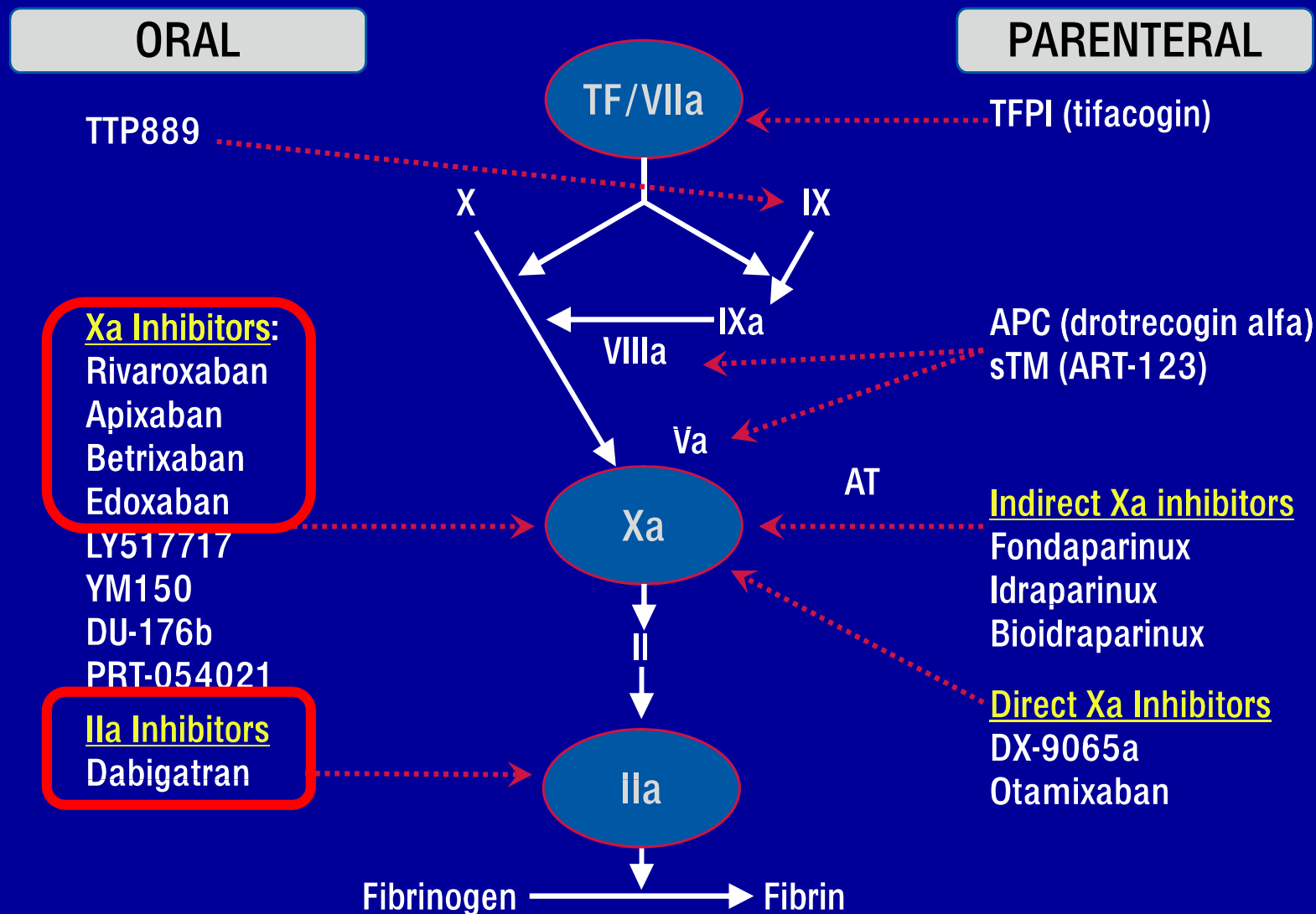


*INR = International normalized ratio

** TTR = Time in Therapeutic Range (INR2.0-3.0)

1. Kalra L, et al. BMJ 2000;320:1236-1239 * Pooled data: up to 83% to 71% in individualized trials; 2. Samsa GP, et al. Arch Int Med 2000
3. Matchar DB, et al. Am J Med 2002; 113:42-51.

Targets of New Anticoagulant Agents



The RE-LY Study

The NEW ENGLAND JOURNAL *of* MEDICINE

ESTABLISHED IN 1812

SEPTEMBER 17, 2009

VOL. 361 NO. 12

Dabigatran versus Warfarin in Patients with Atrial Fibrillation

Stuart J. Connolly, M.D., Michael D. Ezekowitz, M.B., Ch.B., D.Phil., Salim Yusuf, F.R.C.P.C., D.Phil., John Eikelboom, M.D., Jonas Oldgren, M.D., Ph.D., Amit Parekh, M.D., Janice Pogue, M.Sc., Paul A. Reilly, Ph.D., Ellison Themeles, B.A., Jeanne Varrone, M.D., Susan Wang, Ph.D., Marco Alings, M.D., Ph.D., Denis Xavier, M.D., Jun Zhu, M.D., Rafael Diaz, M.D., Basil S. Lewis, M.D., Harald Darius, M.D., Hans-Christoph Diener, M.D., Ph.D., Campbell D. Joyner, M.D., Lars Wallentin, M.D., Ph.D., and the RE-LY Steering Committee and Investigators*

CONCLUSIONS

Prevention of stroke and systemic embolism

Dabigatran etexilate **110 mg** BID
non-inferior to well-controlled warfarin

RR 0.91 (95% CI: 0.74–1.11)

$p < 0.001$ (non-inferiority) $p = 0.34$ (superiority)

Dabigatran etexilate **150 mg** BID
superior to well-controlled warfarin

RR 0.66 (95% CI: 0.53–0.82)

$p < 0.001$ (non-inferiority) $p < 0.001$ (superiority)



CONCLUSIONS

Major Bleedings

Dabigatran etexilate **110 mg** BID
superior to well-controlled warfarin

RR 0.80 (95% CI: 0.69–0.93)

p=0.003 (superiority)



Dabigatran etexilate **150 mg** BID
non-inferior to well-controlled warfarin

RR 0.93 (95% CI: 0.81–1.07)

p=0.31 (superiority)

CONCLUSIONS

Reduction of Intra-cranial Bleedings

Dabigatran etexilate **110 mg** BID
superior to well-controlled warfarin

RR 0.31 (95% CI: 0.20–0.47)

p<0.001 (superiority)



Dabigatran etexilate **150 mg** BID
superior to well-controlled warfarin

RR 0.40 (95% CI: 0.27–0.60)

p<0.001 (superiority)



Conclusions

Both doses of dabigatran provide different and complementary advantages over warfarin

- **150 mg BID has superior efficacy with similar bleeding**
- **110 mg BID has significantly less bleedings with similar efficacy**
- **Significant reduction in total bleeds, life threatening bleeds and intracranial bleeds**

The ROCKET-AF Study

The NEW ENGLAND JOURNAL *of* MEDICINE

ESTABLISHED IN 1812

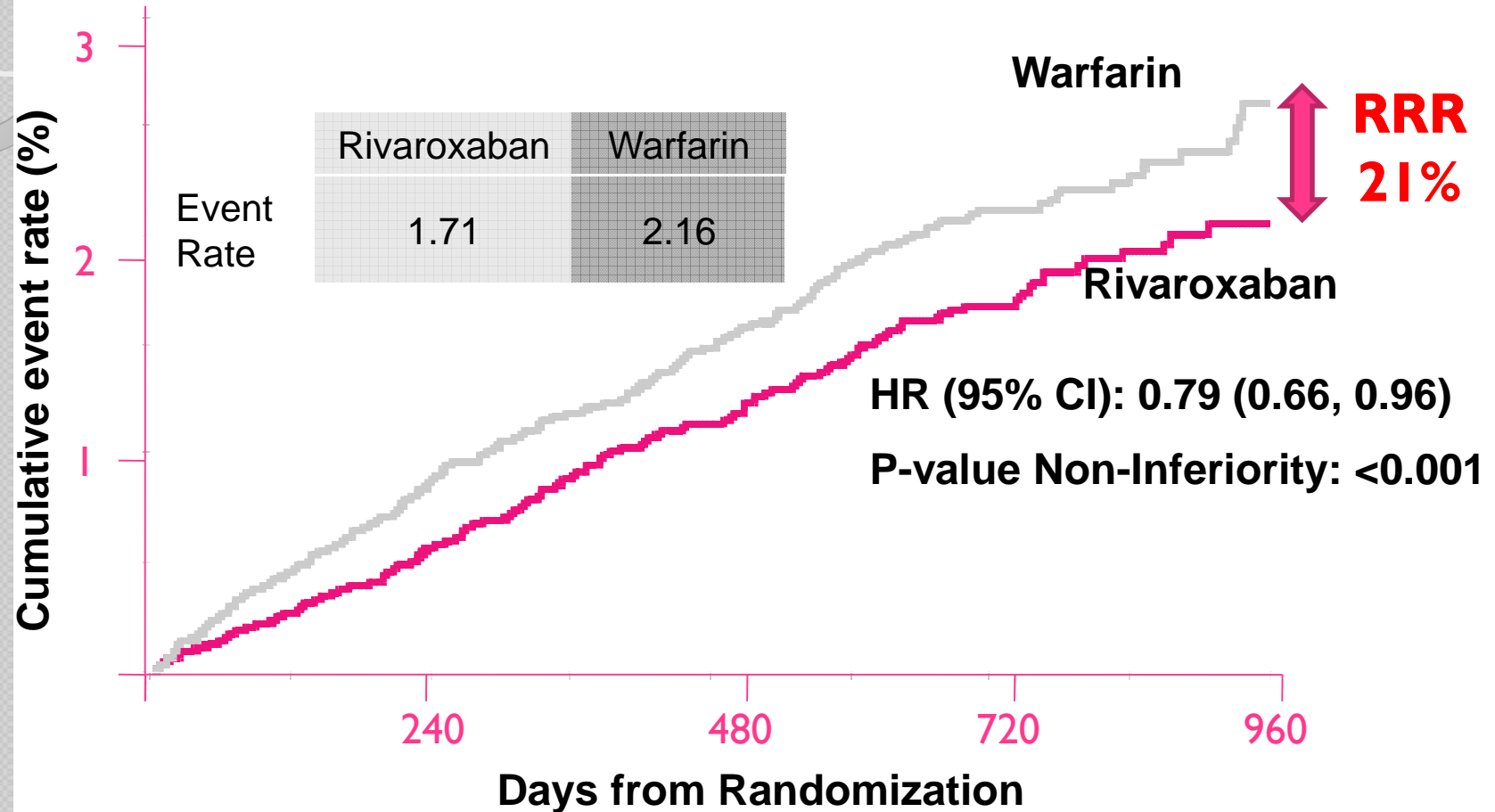
SEPTEMBER 8, 2011

VOL. 365 NO. 10

Rivaroxaban versus Warfarin in Nonvalvular Atrial Fibrillation

Manesh R. Patel, M.D., Kenneth W. Mahaffey, M.D., Jyotsna Garg, M.S., Guohua Pan, Ph.D., Daniel E. Singer, M.D.,
Werner Hacke, M.D., Ph.D., Günter Breithardt, M.D., Jonathan L. Halperin, M.D., Graeme J. Hankey, M.D.,
Jonathan P. Piccini, M.D., Richard C. Becker, M.D., Christopher C. Nessel, M.D., John F. Paolini, M.D., Ph.D.,
Scott D. Berkowitz, M.D., Keith A.A. Fox, M.B., Ch.B., Robert M. Califf, M.D.,
and the ROCKET AF Steering Committee, for the ROCKET AF Investigators*

Prevention of Stroke and Systemic Embolism



Event Rates are per 100 patient-years
Based on Protocol Compliant on Treatment Population

Primary Safety Outcomes

	Rivaroxaban	Warfarin		
	Event Rate or N (Rate)	Event Rate or N (Rate)	HR (95% CI)	P- value
Major	3.60	3.45	1.04 (0.90, 1.20)	0.576
≥2 g/dL Hgb drop	2.77	2.26	1.22 (1.03, 1.44)	0.019
Transfusion (> 2 units)	1.65	1.32	1.25 (1.01, 1.55)	0.044
Critical organ bleeding	0.82	1.18	0.69 (0.53, 0.91)	0.007
Bleeding causing death	0.24	0.48	0.50 (0.31, 0.79)	0.003
Intracranial Hemorrhage	55 (0.49)	84 (0.74)	0.67 (0.47, 0.94)	0.019
Intraparenchymal	37 (0.33)	56 (0.49)	0.67 (0.44, 1.02)	0.060
Intraventricular	2 (0.02)	4 (0.04)		
Subdural	14 (0.13)	27 (0.27)	0.53 (0.28, 1.00)	0.051
Subarachnoid	4 (0.04)	1 (0.01)		

Event Rates are per 100 patient-years
Based on Safety on Treatment Population

Summary

Efficacy:

- Rivaroxaban was **non-inferior to warfarin** for prevention of stroke and non-CNS embolism.
- Rivaroxaban was **superior to warfarin** while patients were taking study drug.
- By intention-to-treat, rivaroxaban was non-inferior to warfarin but did not achieve superiority.

Safety:

- **Similar rates of bleeding** and adverse events.
- **Less ICH and fatal bleeding with rivaroxaban.**

Conclusion:

- **Rivaroxaban is a proven alternative to warfarin for moderate or high risk patients with AF.**

The ARISTOTLE Study

The NEW ENGLAND JOURNAL *of* MEDICINE

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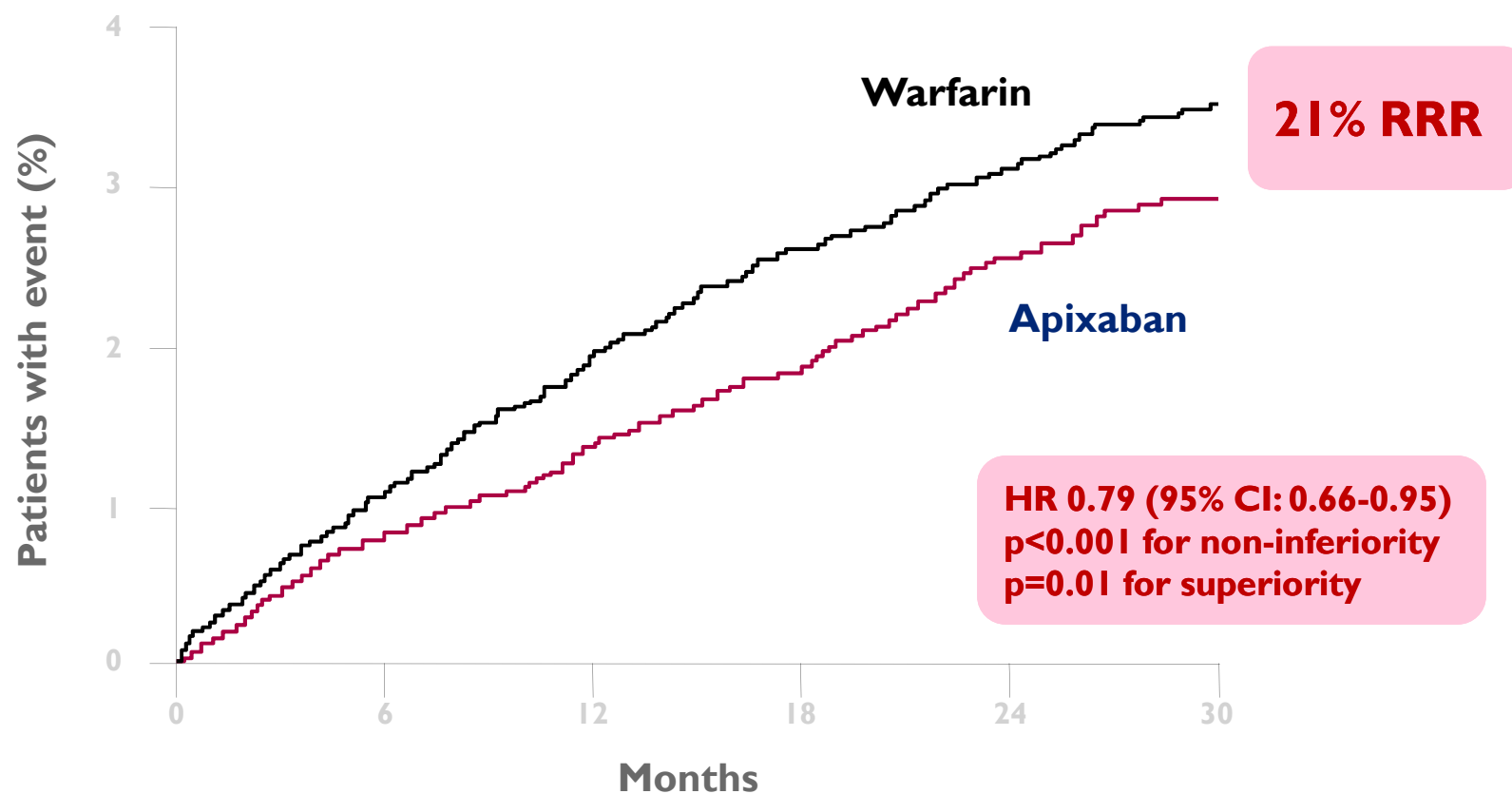
SEPTEMBER 15, 2011

VOL. 365 NO. 11

Apixaban versus Warfarin in Patients with Atrial Fibrillation

Christopher B. Granger, M.D., John H. Alexander, M.D., M.H.S., John J.V. McMurray, M.D., Renato D. Lopes, M.D., Ph.D., Elaine M. Hylek, M.D., M.P.H., Michael Hanna, M.D., Hussein R. Al-Khalidi, Ph.D., Jack Ansell, M.D., Dan Atar, M.D., Alvaro Avezum, M.D., Ph.D., M. Cecilia Bahit, M.D., Rafael Diaz, M.D., J. Donald Easton, M.D., Justin A. Ezekowitz, M.B., B.Ch., Greg Flaker, M.D., David Garcia, M.D., Margarida Geraldes, Ph.D., Bernard J. Gersh, M.D., Sergey Golitsyn, M.D., Ph.D., Shinya Goto, M.D., Antonio G. Hermosillo, M.D., Stefan H. Hohnloser, M.D., John Horowitz, M.D., Puneet Mohan, M.D., Ph.D., Petr Jansky, M.D., Basil S. Lewis, M.D., Jose Luis Lopez-Sendon, M.D., Prem Pais, M.D., Alexander Parkhomenko, M.D., Freek W.A. Verheugt, M.D., Ph.D., Jun Zhu, M.D., and Lars Wallentin, M.D., Ph.D., for the ARISTOTLE Committees and Investigators*

ARISTOTLE: Apixaban **superior to warfarin** in preventing stroke or systemic embolism

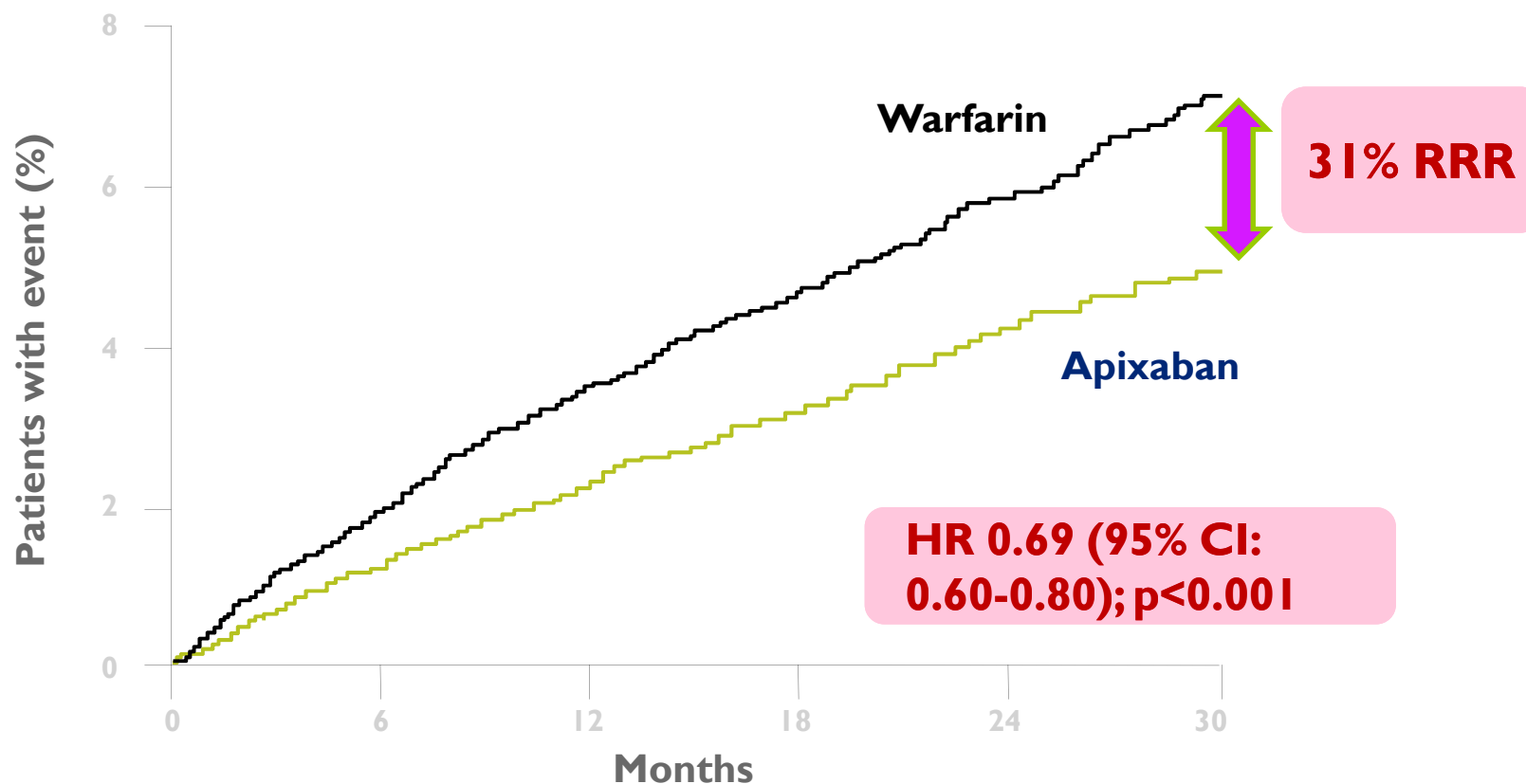


No. at risk

Apixaban	9,120	8,726	8,440	6,051	3,464	1,754
Warfarin	9,081	8,620	8,301	5,972	3,405	1,768

Adapted from Granger et al. *N Engl J Med* 2011;365:981-92.

ARISTOTLE: Apixaban significantly reduced the risk of major bleeding* vs. warfarin



No. at Risk

Apixaban	9088	8103	7564	5365	3048	1515
Warfarin	9052	7910	7335	5196	2956	1491

* Major bleeding was defined according to ISTH criteria

Adapted from Granger et al. *N Engl J Med* 2011;365:981-92.

ARISTOTLE: Apixaban significantly reduced the rate of bleeding irrespective of the bleeding definition used

Outcome	Apixaban (N=9,088) Event Rate (%/yr)	Warfarin (N=9,052) Event Rate (%/yr)	HR (95% CI)	P value
Primary safety outcome: ISTH major bleeding	2.13	3.09	0.69 (0.60, 0.80)	<0.001
Intracranial	0.33	0.80	0.42 (0.30, 0.58)	<0.001
Other location	1.79	2.27	0.79 (0.68, 0.93)	0.004
Gastrointestinal	0.76	0.86	0.89 (0.70, 1.15)	0.37
Major or clinically relevant non-major bleeding	4.07	6.01	0.68 (0.61, 0.75)	<0.001
GUSTO severe bleeding	0.52	1.13	0.46 (0.35, 0.60)	<0.001
TIMI major bleeding	0.96	1.69	0.57 (0.46, 0.70)	<0.001
Any bleeding	18.1	25.8	0.71 (0.68, 0.75)	<0.001

Granger et al. *N Engl J Med* 2011;365:981-92.

ARISTOTLE: Conclusions

- In patients with AF and at least one additional risk factor for stroke, the use of **apixaban, as compared with warfarin, significantly reduced the risk of:**
 - **Stroke or systemic embolism by 21% (p=0.01)**
 - **Major bleeding by 31% (p<0.001)**
 - **Death by 11% (p=0.047)**
- The results were **consistent in subgroups** according to geographic region, status with respect to previous warfarin exposure, age, sex, and risk factors for stroke, as well as in other predefined subgroups
- Apixaban had an acceptable side-effect profile and a lower rate of study drug discontinuation than in the warfarin group

Executive Summary : Antithrombotic Therapy and Prevention of Thrombosis, 9th ed: American College of Chest Physicians Evidence-Based Clinical Practice Guidelines

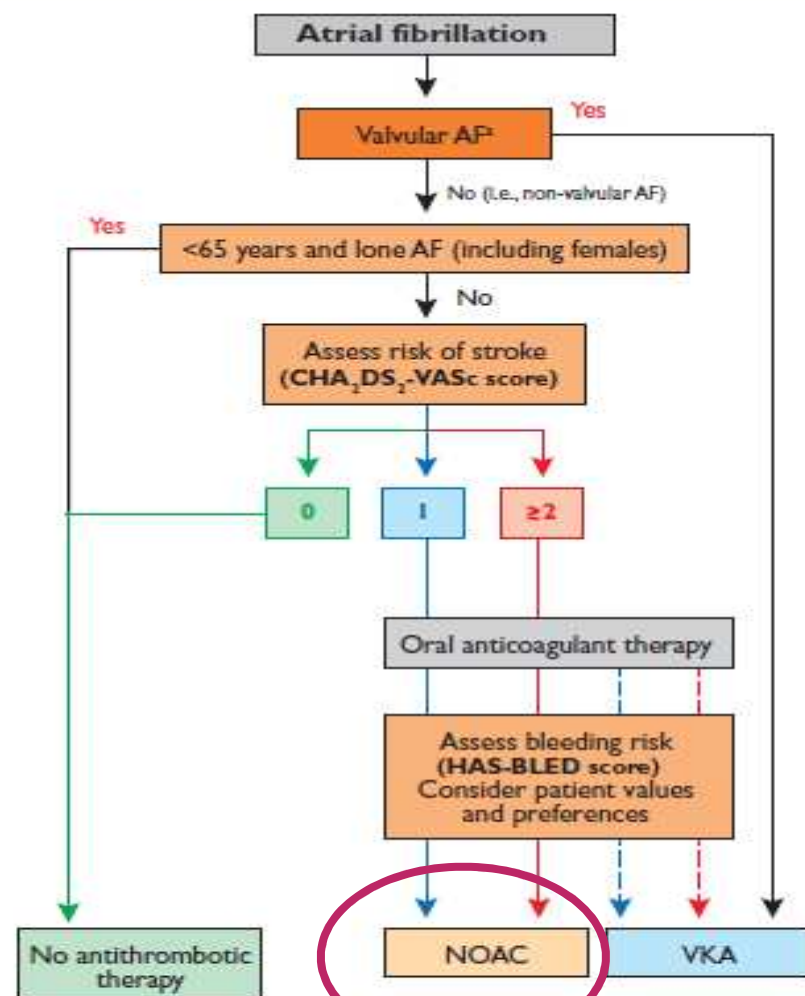
Gordon H. Guyatt, Elie A. Akl, Mark Crowther, David D. Gutterman, Holger J. Schünemann and for the American College of Chest Physicians Antithrombotic Therapy and Prevention of Thrombosis Panel

Chest 2012;141:7S-47S
DOI 10.1378/chest.1412S3

2.1.10. For patients with AF, including those with paroxysmal AF, who are at high risk of stroke (eg, CHADS₂ score = 2), we recommend oral anticoagulation rather than no therapy (Grade 1A),

2.1.11. For patients with AF, including those with paroxysmal AF, for recommendations in favor of oral anticoagulation (including 2.1.9, 2.1.10, and excluding 2.2, 3.1, 3.2, 3.3), we suggest dabigatran 150 mg twice daily rather than adjusted-dose VKA therapy (target INR range, 2.0-3.0) (Grade 2B).

Remarks: Dabigatran is excreted primarily by the kidney. It has not been studied and is contraindicated in patients with severe renal impairment (estimated creatinine clearance of 30 mL/min or less). Clinicians should be aware that there is no antidote for dabigatran.



Antiplatelet therapy with aspirin plus clopidogrel, or—less effectively—aspirin only, should be considered in patients who refuse any OAC, or cannot tolerate anticoagulants for reasons unrelated to bleeding. If there are contraindications to OAC or antiplatelet therapy, left atrial appendage occlusion, closure or excision may be considered.

Colour: CHA₂DS₂-VASc; green = 0, blue = 1, red ≥2.

Line: solid = best option; dashed = alternative option.

AF = atrial fibrillation; CHA₂DS₂-VASc = see text; HAS-BLED = see text;

NOAC = novel oral anticoagulant; OAC = oral anticoagulant;

VKA = vitamin K antagonist.

*Includes rheumatic valvular disease and prosthetic valves.

Figure 1 Choice of anticoagulant.

*2012 focused update of the ESC Guidelines
for the management of atrial fibrillation*

RE-LY® – ROCKET-AF® – ARISTOTLE®

Efficacia dei nuovi anticoagulanti orali: tutti non inferiori rispetto a warfarin

Efficacy and Safety of the Novel Oral Anticoagulants in Atrial Fibrillation

A Systematic Review and Meta-Analysis of the Literature

Francesco Dentali, MD; Nicoletta Riva, MD; Mark Crowther, MD; Alexander G.G. Turpie, MD;
Gregory Y.H. Lip, MD; Walter Ageno, MD

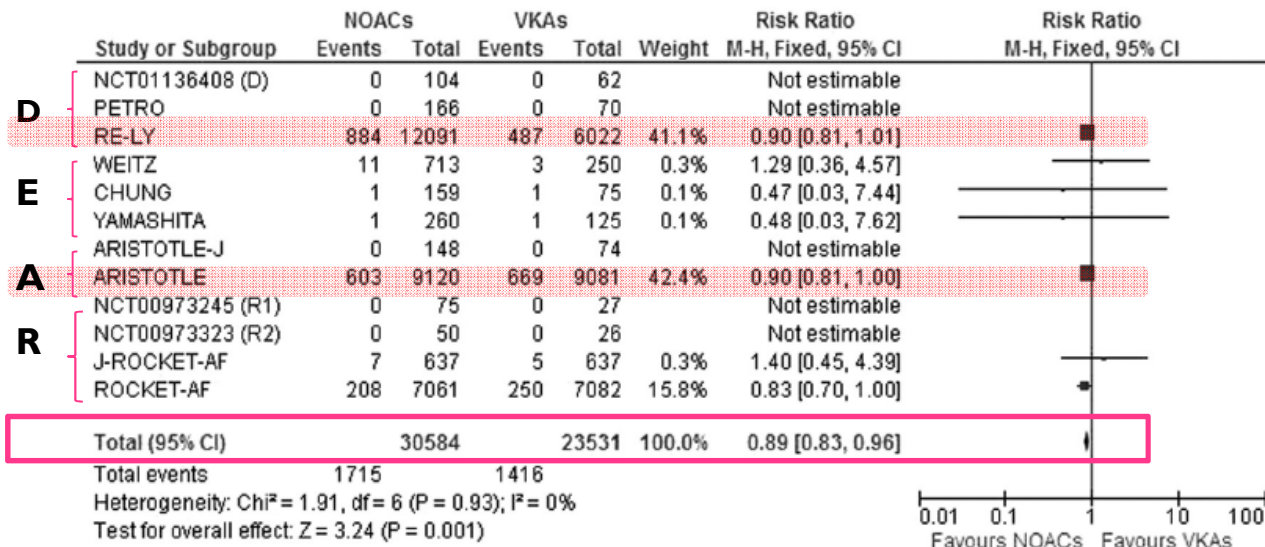
Background—Novel oral anticoagulants (NOACs) have been proposed as alternatives to vitamin K antagonists for the prevention of stroke and systemic embolism in patients with atrial fibrillation. Individually, NOACs were at least noninferior to vitamin K antagonists, but a clear superiority in overall and vascular mortality was not consistently proven.

Methods and Results—We performed a meta-analysis of phase II and phase III randomized, controlled trials comparing NOACs with vitamin K antagonists in patients with atrial fibrillation. The MEDLINE and EMBASE databases, supplemented with conference abstract books and www.clinicaltrials.gov, were searched up to the first week of July 2012 with no language restriction. Two reviewers performed independent article review and study quality assessment. Data on overall and cardiovascular mortality, stroke or systemic embolism, ischemic stroke, major and intracranial bleeding, and myocardial infarction were collected. NOACs were pooled to perform a comparison with vitamin K antagonists, calculating pooled relative risks (RRs) and associated 95% confidence intervals (CIs). We retrieved 12 studies (3 administering dabigatran, 4 administering rivaroxaban, 2 administering apixaban, and 3 administering edoxaban) enrolling a total of 54 875 patients. NOACs significantly reduced total mortality (5.61% versus 6.02%; RR, 0.89; 95% CI, 0.83–0.96), cardiovascular mortality (3.45% versus 3.65%; RR, 0.89; 95% CI, 0.82–0.98), and stroke/systemic embolism (2.40% versus 3.13%; RR, 0.77; 95% CI, 0.70–0.86). There was a trend toward reduced major bleeding (RR, 0.86; 95% CI, 0.72–1.02) with a significant reduction of intracranial hemorrhage (RR, 0.46; 95% CI, 0.39–0.56). No difference in myocardial infarction was observed.

Conclusions—NOACs are associated with an overall clinical benefit compared with vitamin K antagonists. Additional research is required to confirm these findings outside the context of randomized trials. (*Circulation*. 2012;126:2381-2391.)

Key Words: anticoagulants ■ atrial fibrillation ■ meta-analysis ■ mortality ■ stroke

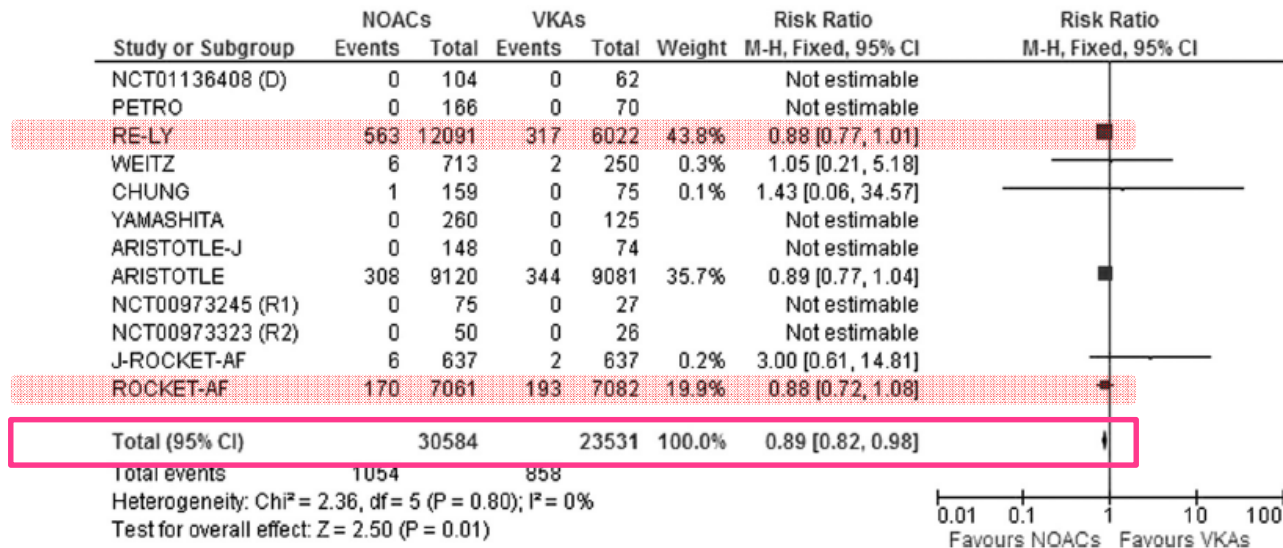
A Total mortality



NNT 244

**apixaban
dabigatran
rivaroxaban**

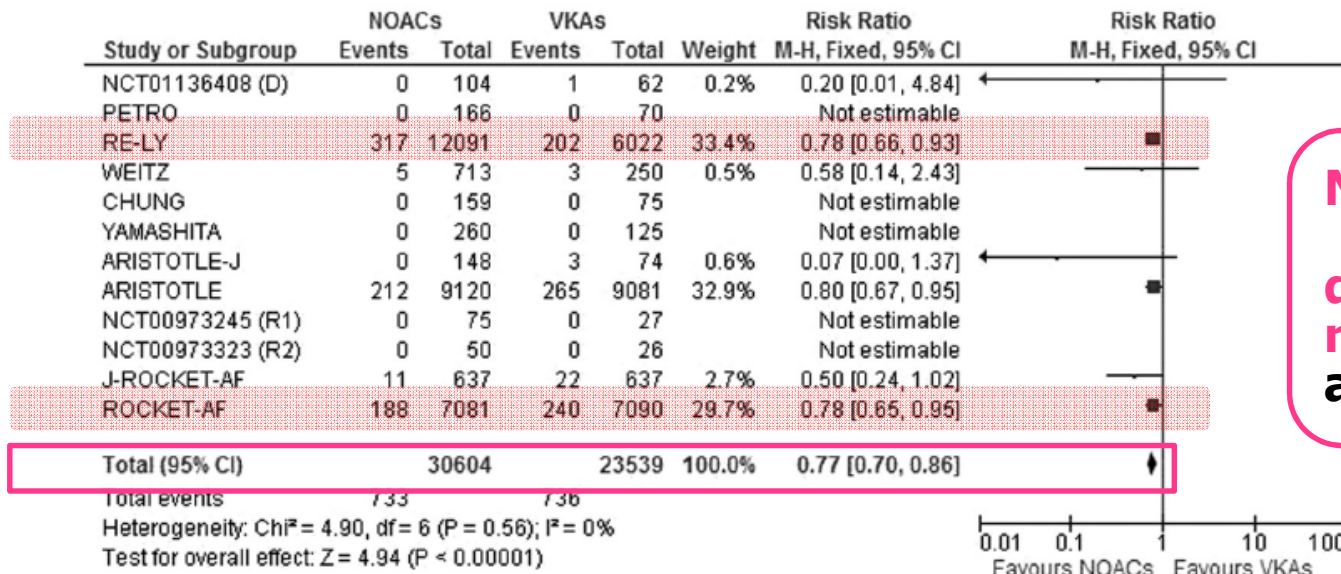
B Cardiovascular mortality



NNT 500

**dabigatran
rivaroxaban
apixaban**

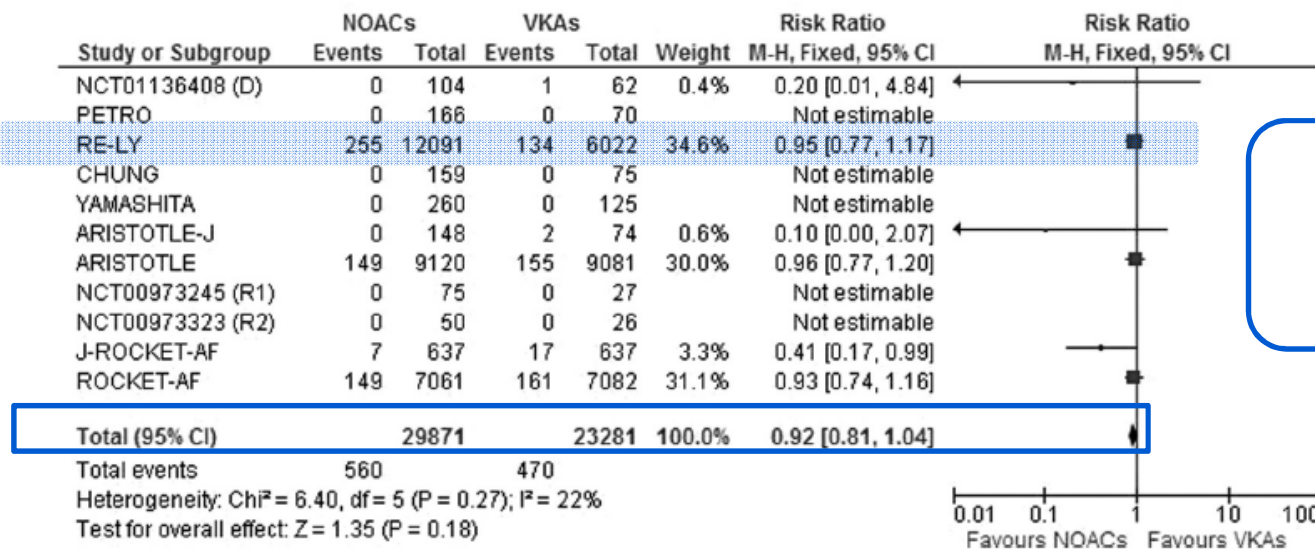
A Stroke or Systemic Embolism



NNT 173

**dabigatran
rivaroxaban
apixaban**

B Ischemic stroke



n.s.

RE-LY® – ROCKET-AF® – ARISTOTLE®

Efficacia dei nuovi anticoagulanti orali: tutti non inferiori rispetto a warfarin

Meta-Analysis of Efficacy and Safety of New Oral Anticoagulants (Dabigatran, Rivaroxaban, Apixaban) Versus Warfarin in Patients With Atrial Fibrillation

Corey S. Miller, BA^{a,c}, Sonia M. Grandi, MSc^a, Avi Shimony, MD^{a,b,d}, Kristian B. Filion, PhD^a, and
Mark J. Eisenberg, MD, MPH^{a,b,c,*}

Characteristic	Trial					
	ARISTOTLE		RE-LY		ROCKET AF	
	Apixaban (n = 9,120)	Warfarin (n = 9,081)	Dabigatran (n = 6,076)	Warfarin (n = 6,022)	Rivaroxaban (n = 7,131)	Warfarin (n = 7,133)
Dose (mg)	5 twice daily*	Target INR of 2.0–3.0	150 twice daily	Target INR of 2.0–3.0	20/day [†]	Target INR of 2.0–3.0
Drug discontinuation rate	25.3%	27.5%	21.2%	16.6%	23.7%	22.2%
Median length of follow-up (days)	657		730		707	
Mean time in therapeutic range	NA	62%	NA	64%	NA	55%
Age (years), mean ± SD or median (IQR)	70 (63–76)	70 (63–76)	71.5 ± 8.8	71.6 ± 8.6	73 (65–78)	73 (65–78)
Women	35.5%	35.0%	36.8%	36.7%	39.7%	39.7%
AF type						
Persistent or permanent	84.9%	84.4%	67.4%	66.2%	81.1%	80.8%
Paroxysmal	15.1%	15.5%	32.6%	33.8%	17.5%	17.8%
New	NA	NA	NA	NA	1.4%	1.4%
CHADS ₂ score, mean ± SD	2.1 ± 1.1	2.1 ± 1.1	2.2 ± 1.2	2.1 ± 1.1	3.5 ± 0.94	3.5 ± 0.95
0 or 1	34.0%	34.0%	32.2%	30.9%	~0%	~0%
2	35.8%	35.8%	35.2%	37.0%	13.0%	13.1%
3–6	30.2%	30.2%	32.6%	32.1%	87.0%	86.9%
Previous VKA use [‡]	57.1%	57.2%	50.2%	48.6%	62.3%	62.5%
Previous stroke or transient ischemic attack [§]	19.2%	19.7%	20.3%	19.8%	54.9%	54.6%
Heart failure	35.5%	35.4%	31.8%	31.9%	62.6%	62.3%
Diabetes mellitus	25.0%	24.9%	23.1%	23.4%	40.4%	39.5%
Hypertension	87.3%	87.6%	78.9%	78.9%	90.3%	90.8%

* Subjects who, at baseline, were ≥80 years of age, had body weights ≤60 kg, or had serum creatinine levels ≥1.5 mg/dl (133 μmol/L) received apixaban 2.5 mg twice daily.

[†] Subjects with creatinine clearance of 30 to 40 ml/min at baseline received rivaroxaban 15 mg/day.

[‡] Defined as patients who used VKAs for ≥61 and 30 days in RE-LY and ARISTOTLE, respectively. Unspecified for ROCKET AF.

[§] For ROCKET AF and ARISTOTLE, these data include patients who had systemic embolisms.

^{||} For ROCKET AF and ARISTOTLE, these data include patients with left ventricular ejection fractions <35% and <40%, respectively.



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Sicurezza dei nuovi anticoagulanti orali

A Major bleeding

Study or Subgroup	NOACs		VKAs		Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% CI
	Events	Total	Events	Total			
NCT01136408 (D)	1	104	1	62	0.1%	0.60 [0.04, 9.36]	
PETRO	0	166	0	70		Not estimable	
RE-LY	741	12091	421	6022	38.8%	0.88 [0.78, 0.98]	
WEITZ	6	713	1	250	0.1%	2.10 [0.25, 17.39]	
CHUNG	0	159	2	75	0.2%	0.10 [0.00, 1.95]	
YAMASHITA	2	260	0	125	0.0%	2.41 [0.12, 49.90]	
ARISTOTLE-J	0	143	1	75	0.1%	0.18 [0.01, 4.27]	

NNT 137

ARISTOTLE

NCT00973245 (R)

NCT00973323 (R)

J-ROCKET-AF

ROCKET-AF

Total (95% CI)

Total events

Heterogeneity: Chi

Test for overall effect

Myocardial Infarction

MI occurred in 394 of 30 584 patients (1.29%) treated with NOACs and in 304 of 23 531 patients (1.29%) treated with VKAs (Figure 4). There was no difference in the risk of developing MI between NOACs and VKAs (RR, 0.99; 95% CI, 0.85–1.15; $I^2=55\%$).

B Intracranial

Study or Subgroup	NOACs		VKAs		Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
	Events	Total	Events	Total			
NCT01136408 (D)	0	104	0	62		Not estimable	
PETRO	0	166	0	70		Not estimable	
RE-LY	64	12091	90	6022	35.4%	0.35 [0.26, 0.49]	
WEITZ	3	713	0	250	0.2%	2.46 [0.13, 47.47]	
CHUNG	0	159	0	75		Not estimable	
YAMASHITA	1	260	0	125	0.2%	1.45 [0.06, 35.30]	
ARISTOTLE-J	0	143	1	75	0.6%	0.18 [0.01, 4.27]	
ARISTOTLE	52	9088	122	9052	36.0%	0.42 [0.31, 0.59]	
NCT00973245 (R1)	0	75	0	27		Not estimable	
NCT00973323 (R2)	0	50	0	26		Not estimable	
J-ROCKET-AF	5	639	10	639	2.9%	0.50 [0.17, 1.45]	
ROCKET-AF	55	7111	84	7125	24.7%	0.66 [0.47, 0.92]	

NNT 141

**dabigatran
apixaban
rivaroxaban**

Total (95% CI)

Total events

Heterogeneity: Chi² = 9.15, df = 6 (P = 0.17); I^2 = 34%

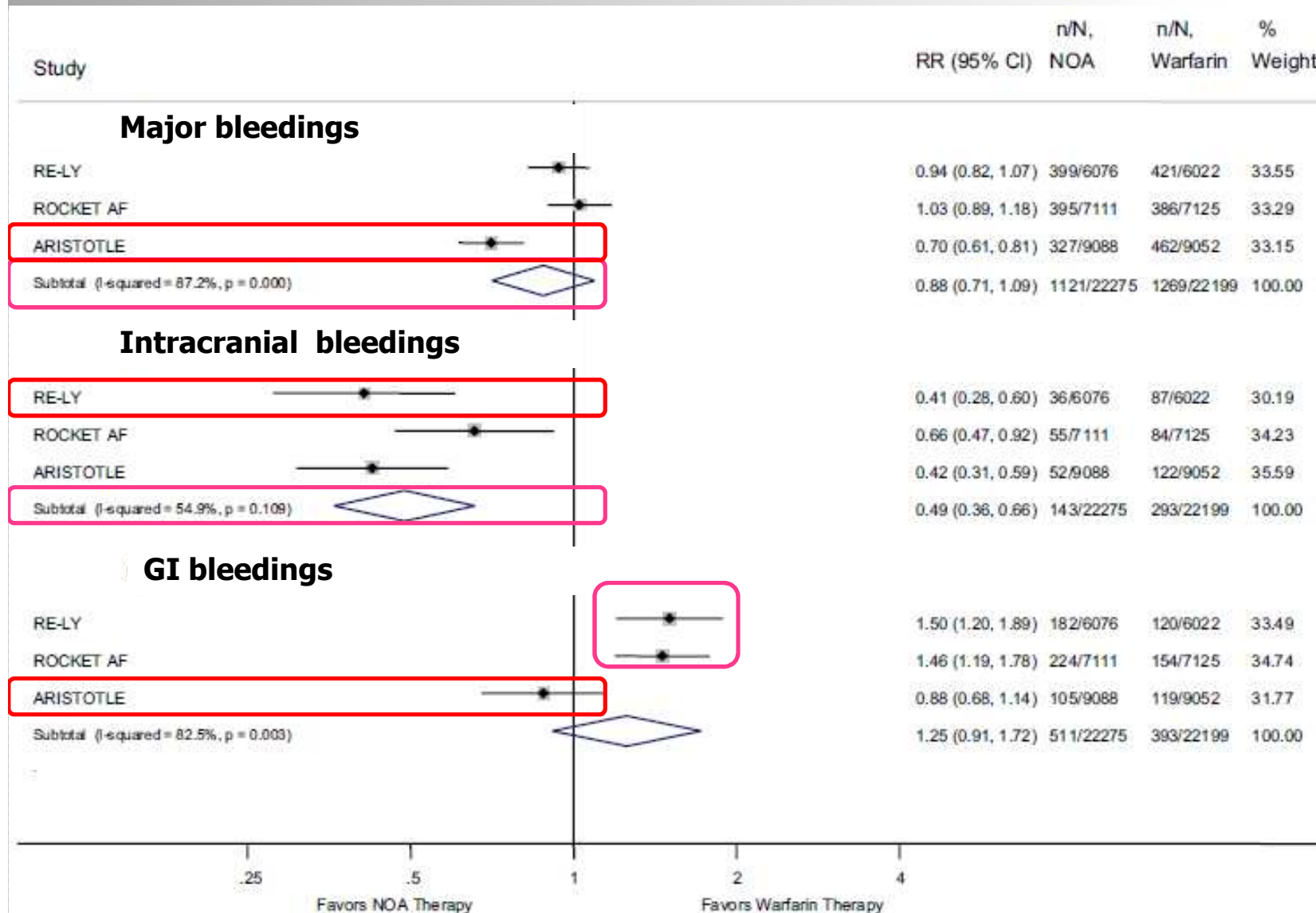
Test for overall effect: Z = 8.22 (P < 0.00001)

0.01 0.1 1 10 100
Favours NOACs Favours VKAs

Efficacy and Safety of the Novel Oral Anticoagulants in Atrial Fibrillation : A Systematic Review and Meta-Analysis of the Literature
Francesco Dentali, Nicoletta Riva, Mark Crowther, Alexander G.G. Turpie, Gregory Y.H. Lip and Walter Ageno

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Sicurezza dei nuovi anticoagulanti orali



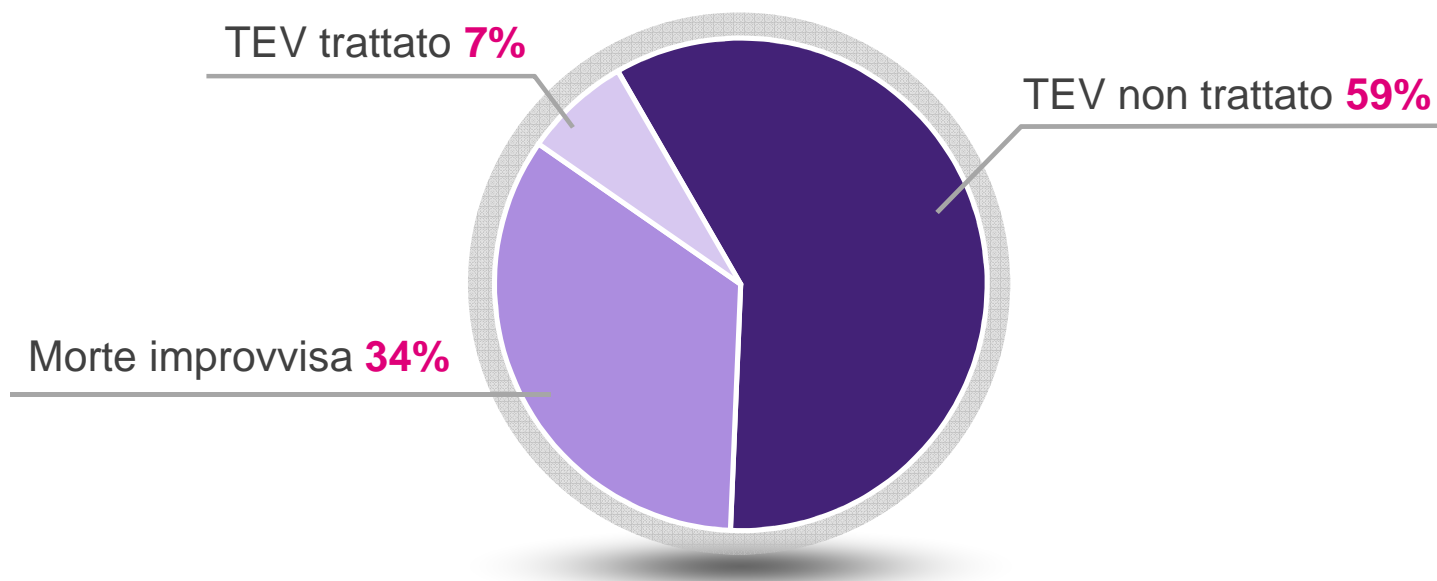
Meta-Analysis of Efficacy and Safety of New Oral Anticoagulants
(*Dabigatran, Rivaroxaban, Apixaban*) Versus Warfarin in Patients
With Atrial Fibrillation

Corey S. Miller, BA^{a,c}, Sonia M. Grandi, MSc^a, Avi Shimony, MD^{a,b,d}, Kristian B. Filton, PhD^a, and
Mark J. Eisenberg, MD, MPH^{a,b,c,*}

Valutazione dell'impatto del TEV in Europa

Studio VITAE (VTE Impact Assessment Group in Europe)

Mortalità in Germania, Italia, Francia, Regno Unito, Spagna e Svezia



- **Incidenza TVP** (primo episodio e TVP ricorrente) = **1.5 su 1000** persone/anno, di cui 65/100.000 acquisita in comunità e 83/100.000 acquisita in ambito ospedaliero.
- **Incidenza EP** = **1 su 1000** persone/anno, di cui 28/100.000 acquisita in comunità e 67/100.000 in ambito ospedaliero.

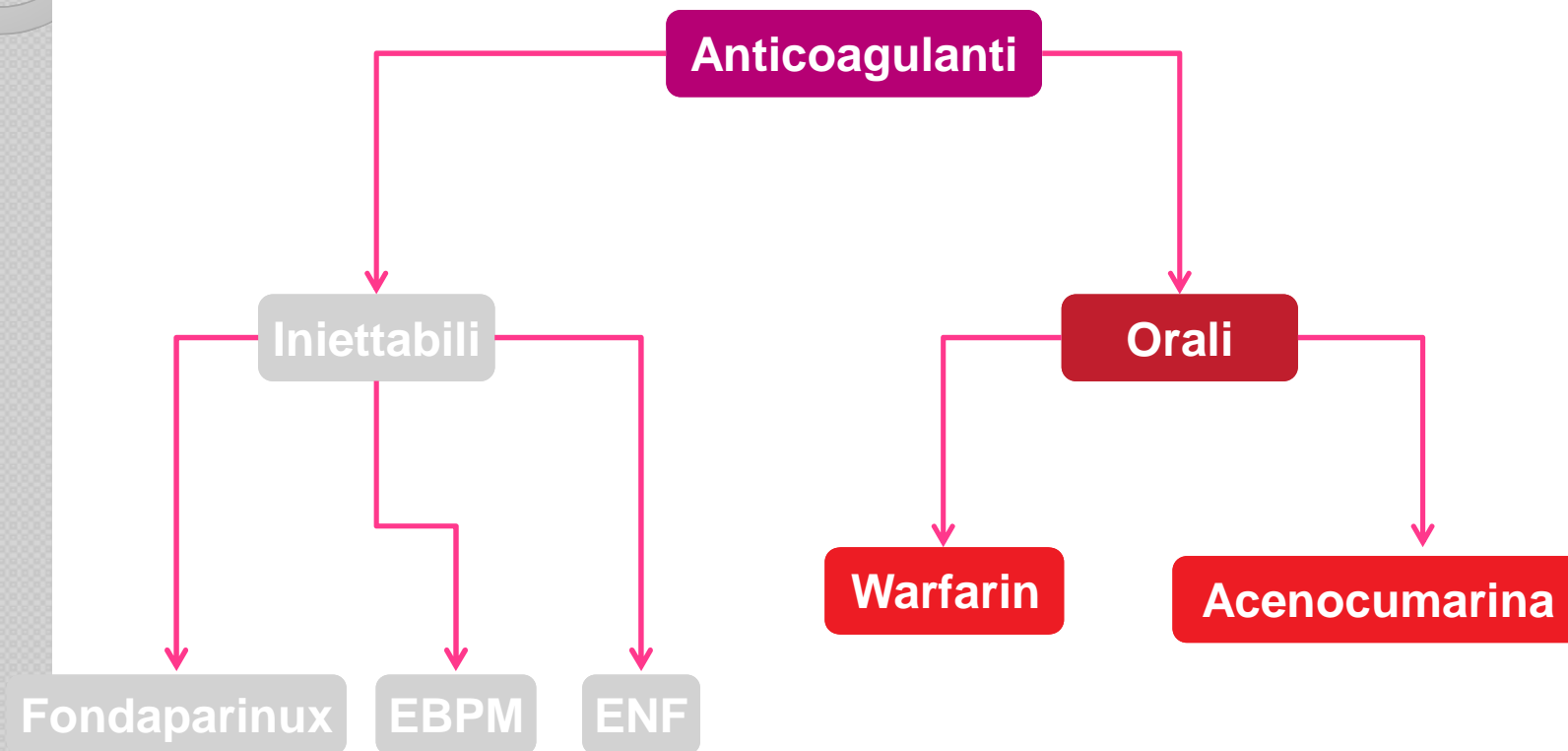
Fasi della patologia e opzioni terapeutiche attuali

- Tipologie e intensità dei trattamenti anticoagulanti convenzionali



*Con rivalutazione del rapporto rischio/beneficio individuale a intervalli periodici.

Trattamento medico “tradizionale” della TVP



***Il nuovo standard terapeutico
per il trattamento della TVP***

Il “single drug approach”

Rivaroxaban EINSTEIN fase III: disegni di studio

eINSTEIN^{DVT}

DVT acuta sintomatica confermata, senza PE sintomatica

eINSTEIN^{PE}

PE acuta sintomatica confermata, con o senza DVT sintomatica

EINSTEIN DVT¹ and EINSTEIN PE^{2*} (studi di non-inferiorità, randomizzato, in aperto)

Periodo di trattamento di 3, 6 o 12 mesi

N=3.449

R

N=4.845

Giorno 1

Giorno 21

Rivaroxaban

15 mg bid

Rivaroxaban

20 mg od

Enoxaparin 1,0 mg/kg bid per almeno 5 giorni, seguito da VKA \leq 48 ore, INR target 2,0–3,0

Osservazione di 30 giorni dopo la fine del trattamento

eINSTEIN^{ext}

DVT o PE sintomatiche confermate che completano 6 o 12 mesi di rivaroxaban o VKA

Estensione dell'EINSTEIN¹ (studio di superiorità, randomizzato, in doppio cieco)

Periodo di trattamento di 6 o 12 mesi

N=1.197

R

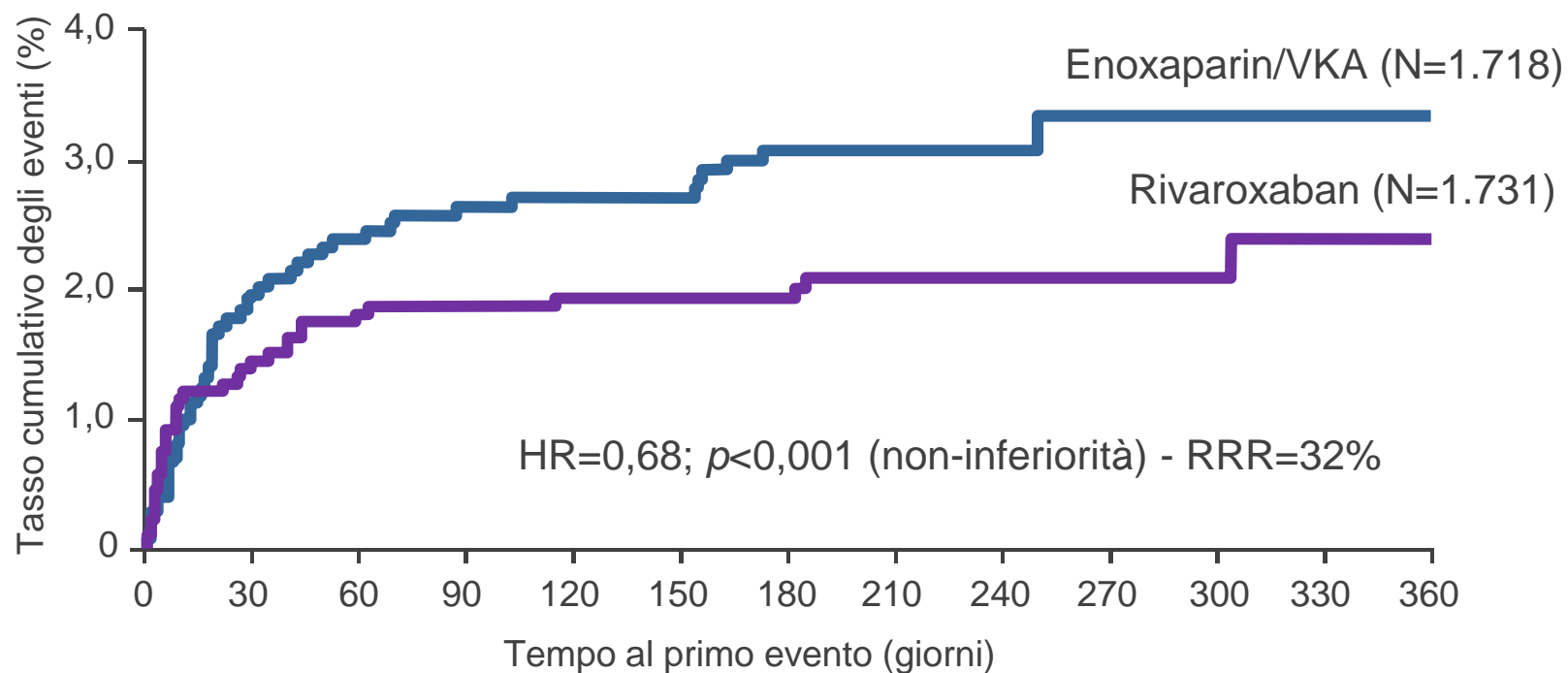
Giorno 1

Rivaroxaban 20 mg od

Placebo

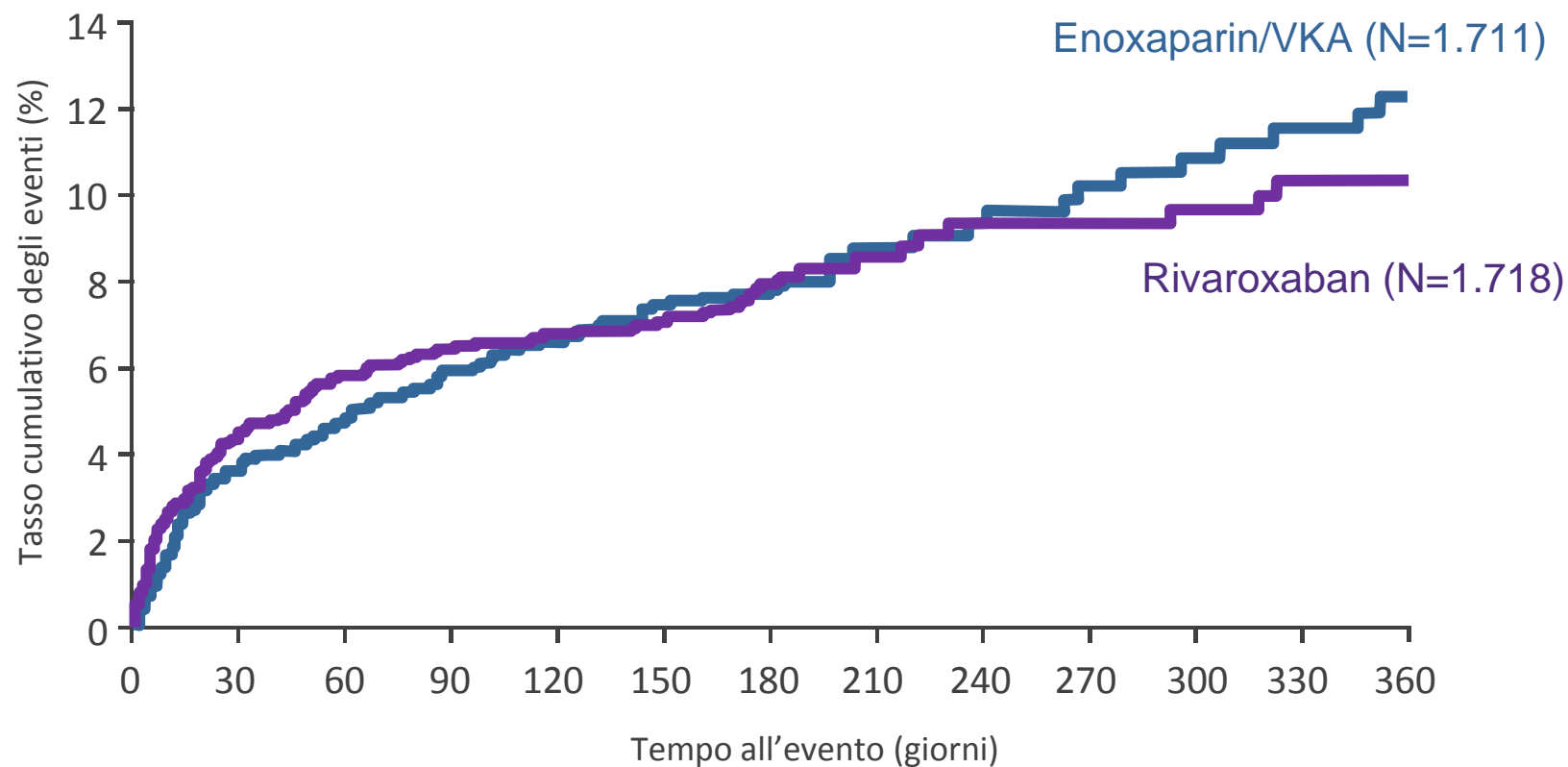
Osservazione di 30 giorni dopo la fine del trattamento

End-Point Primario di Efficacia



End-point primario a 21 giorni, 1,2% rivaroxaban vs 1,7% terapia standard

End point primario di Sicurezza





EINSTEIN DVT: conclusioni

- ◆ Nei pazienti che avevano DVT acuta sintomatica prossimale, senza PE sintomatica, rivaroxaban ha mostrato:
 - **Non-inferiorità vs LMWH/VKA per l'efficacia** (HR=0,68; 95% CI 0,44–1,04; $p<0,001$), sfiorata la superiorità
 - **Risultati simili per l'outcome principale di sicurezza** tra i due gruppi (HR=0,97; 95% CI 0,76–1,22; $p=0,77$)
 - Efficacia confermata e risultati di sicurezza sovrapponibili indipendentemente dall'età, dal peso corporeo, dal sesso, dalla clearance della creatinina e dalla presenza di cancro
 - Nessuna evidenza di tossicità epatica
- ◆ **Rivaroxaban orale, 15 mg bid per 3 settimane seguito da rivaroxaban 20 mg od, fornisce ai medici ed ai pazienti un approccio semplice e con un unico farmaco per il trattamento acuto della DVT e migliora potenzialmente il profilo di rischio-beneficio del trattamento anticoagulante.**



Agenzia Italiana del Farmaco

AIFA

26/09/2012

AIFA CONCEPT PAPER

I nuovi anticoagulanti orali nella prevenzione di ictus e tromboembolismo sistemico in pazienti con fibrillazione atriale non valvolare.

Questo documento illustra i criteri di selezione al trattamento anticoagulante/antitrombotico dei pazienti con fibrillazione atriale non valvolare (FANV) nella prevenzione di ictus e tromboembolismo sistemico. Il documento si basa principalmente sulle più recenti evidenze scientifiche e sulle recenti Linee guida fornite dalla comunità scientifica internazionale con particolare riferimento a quelle della Società Europea di Cardiologia, essendo queste ultime più pertinenti alla realtà Italiana.



In conclusione, tenendo conto di tutte le considerazioni sopra, nonostante gli evidenti vantaggi dei NOACs ci sono diverse priorità in base alle quali decidere quali gruppi trattare per primi con i nuovi anticoagulanti, cominciando ovviamente, dai pazienti nuovi che stanno appena iniziando il trattamento; quelli non ben gestiti con warfarin; quelli con valori labili di INR; quelli ai quali warfarin è stato sconsigliato a causa dei rischi di emorragia intracranica (come per esempio le categorie particolari come gli ipertesi).

26/09/2012

