



Società Italiana per l'Ipertensione Arteriosa
Lega Italiana contro l'Ipertensione Arteriosa

CONGRESSO INTERREGIONALE SIIA

PIEMONTE - LIGURIA - VALLE D'AOSTA

Aula Magna Dogliotti - Presidio Molinette

TORINO

10 OTTOBRE 2020

COMITATO SCIENTIFICO

Aldo Pende (Genova)

Claudio Pascale (Torino)

Antonio Ferrero (Torino)

Franco Rabbia (Torino)

**LA TRIPLICE TERAPIA
ANTITROMBOTICA NELLA
FANV CON CARDIOPATIA
ISCHEMICA:
UNA DIFFICILE SCELTA**

Claudio Pascale



Società Italiana per l'ipertensione Arteriosa
Legge Italiana contro l'ipertensione Arteriosa

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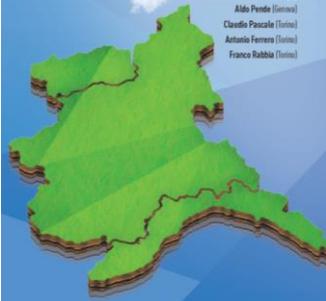
COMITATO SCIENTIFICO

Aldo Pando (Torino)

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Antonio Ferrero (Torino)

Franco Rabba (Torino)



*Il sottoscritto Claudio PASCALE
in qualità di relatore all'evento*

CONGRESSO INTERREGIONALE SIIA
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TORINO
10 OTTOBRE 2020

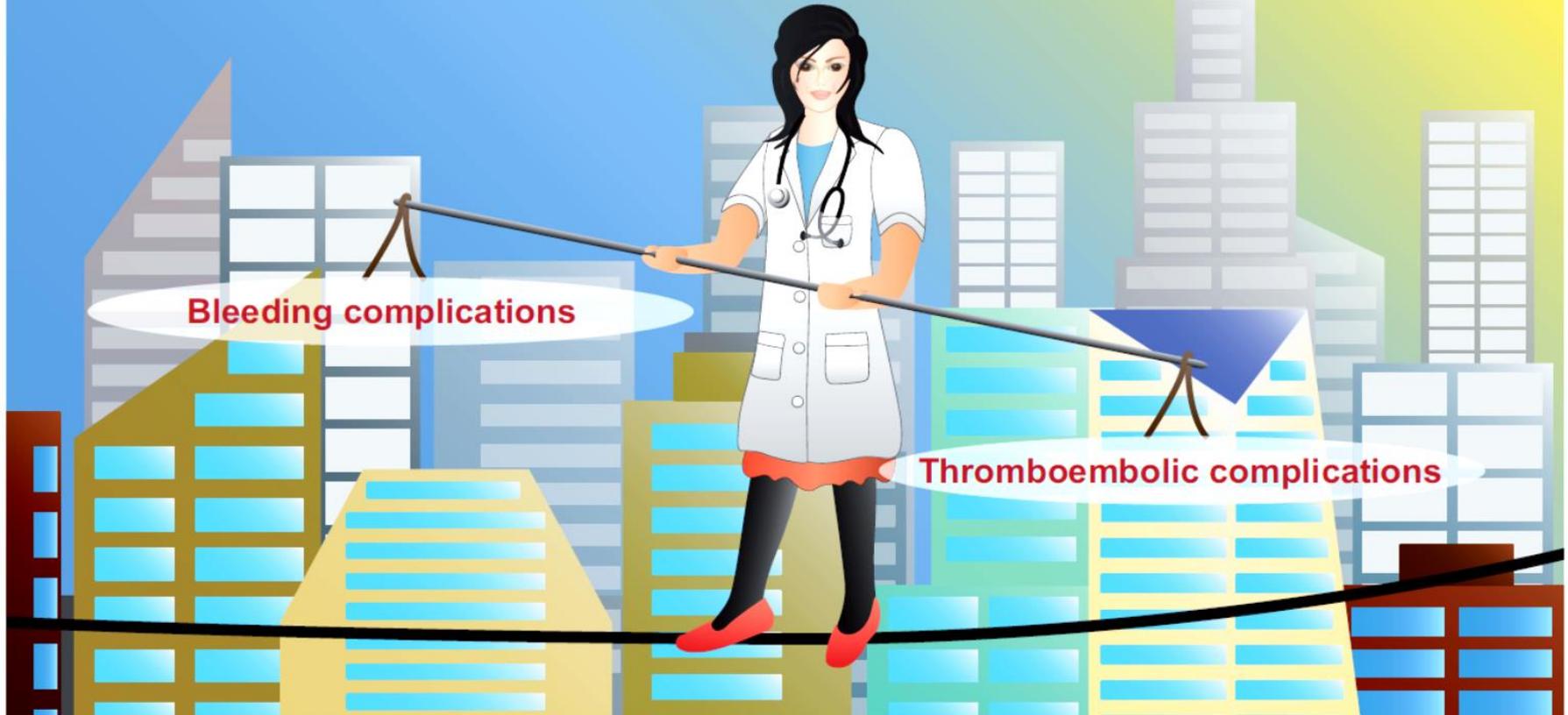
dichiara

*che negli ultimi due anni non ha avuto rapporti diretti di finanziamento
con soggetti portatori di interessi commerciali in campo sanitario*

10 ottobre 2020

During and after PCI, management of patients with AF must balance the risk of bleeding with the risk of thrombosis

Atrial Fibrillation, with ACS, and PCI: Walking a Tightrope





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 Association of Cardio-Thoracic Surgery (EACTS)



ESC
European Society of Cardiology
European Heart Journal (2018) 00, 1–64
doi:10.1093/eurheartj/ehy136

SPECIAL ARTICLE

The 2018 European Heart Rhythm Association Practical Guide on the use of non-vitamin K antagonist oral anticoagulants in patients with atrial fibrillation

Jan Steffel
Matthias Halperin
Holger R. Hohnsfelder
Ronan C. O'Connell



ESC
European Society of Cardiology
European Heart Journal (2018) 00, 1–96
doi:10.1093/eurheartj/ehy394

ESC/EACTS GUIDELINES

2018 ESC review on revascularization in patients with acute coronary syndrome

The Task Force on Revascularization in Acute Coronary Syndromes of the European Society of Cardiology (ESC)

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



ESC
European Society of Cardiology
Europace (2019) 21, 192–193
doi:10.1093/europace/euy174

EHRA CONSENSUS DOCUMENT

2018 Joint European consensus document on the management of atrial fibrillation in patients with coronary artery disease

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

Circulation

WHITE PAPER

Antithrombotic Therapy in Patients With Atrial Fibrillation Undergoing Percutaneous Coronary Intervention (EAPCI), a North American Consensus Document

Circulation

ACC/AHA/HRS GUIDELINE

2019 AHA/ACC/HRS Focus Update on the Management of Patients With Atrial Fibrillation: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines

A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines



ESC
European Society of Cardiology
European Heart Journal (2020) 00, 1–126
doi:10.1093/eurheartj/ehaa612

ESC GUIDELINES

2020 ESC Guidelines for the diagnosis and management of atrial fibrillation developed in collaboration with the European Association of Cardio-Thoracic Surgery (EACTS)

The Task Force for the diagnosis and 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

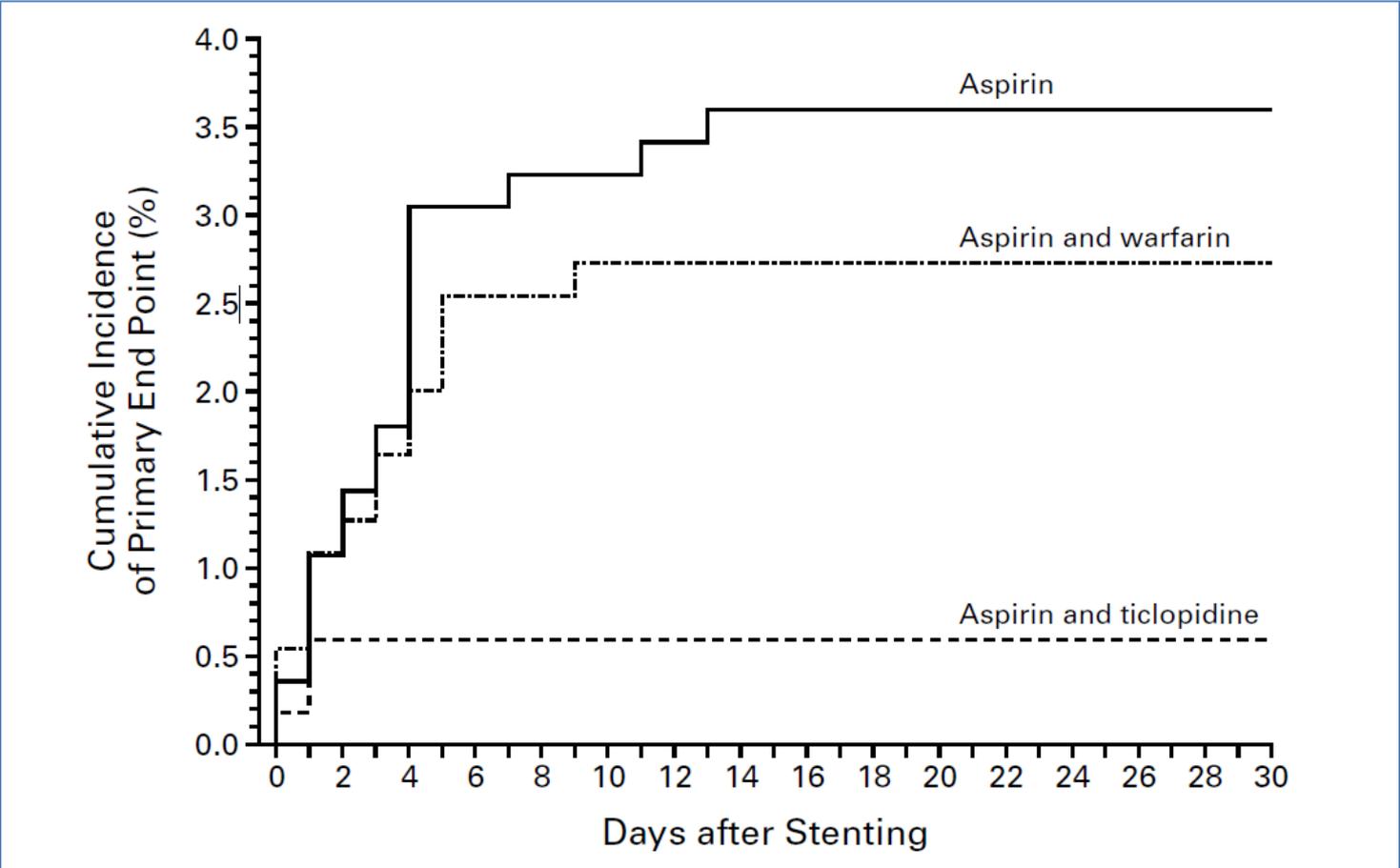
AGENDA



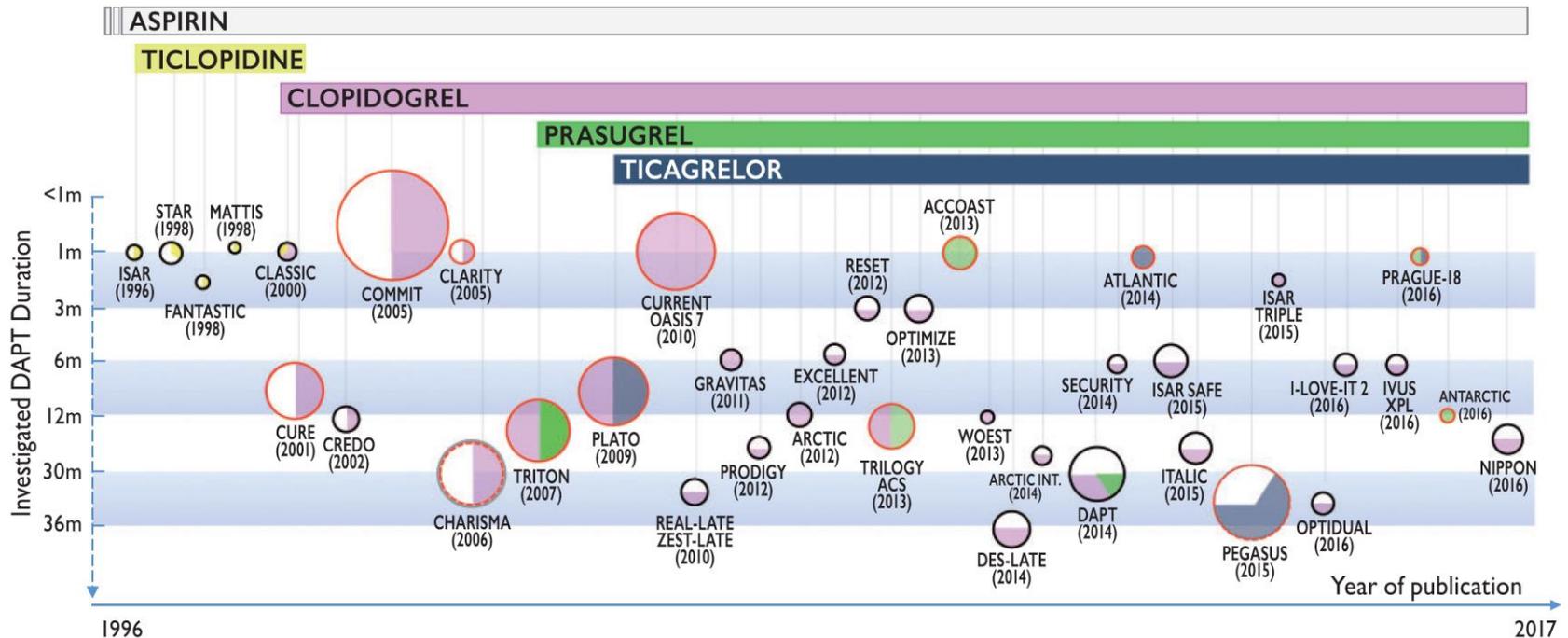
1. Importanza e significato della duplice terapia antiaggregante nelle sindromi coronariche acute e/o PCI
2. Duplice terapia antiaggregante nei pazienti in terapia anticoagulante orale: TRIPLICE TERAPIA ANTITROMBOTICA
3. NOACs, triplice e duplice terapia
4. Evoluzione delle raccomandazioni delle linee guida

**Importanza e significato della duplice
terapia antiaggregante (DAPT)
nelle sindromi coronariche acute**

Combination therapy with 2 antiplatelet agents reduces stent thrombosis more than aspirin alone or aspirin plus warfarin - *The STARS Study*

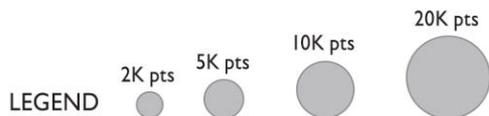


35 trial clinici randomizzati, con più di 225.000 pazienti inclusi, hanno stabilito la superiorità della DAPT sulla terapia anticoagulante per i pazienti sottoposti a PCI



Size of the circles denotes sample size

Perimeter of the circles denotes type of investigated population



- Mixed clinical presentation at the time of stent implantation
- Acute coronary syndrome at presentation
- DAPT initiated in patients with prior myocardial infarction
- DAPT for primary prevention

Durata della DAPT

- Sia gli eventi ischemici che quelli emorragici influenzano la probabilità di patologie acute cv e mortalità nei pazienti coronaropatici durante e dopo la rivascularizzazione miocardica
- Il rischio di trombosi tardiva si è ridotto con l'uso di stent di ultima generazione
- Il rischio di sanguinamento dipende dalla durata della DAPT
- Il prolungare la DAPT oltre l'anno dopo PCI o IMA non sembra giustificato, se non in casi particolari, dal piccolo beneficio osservato nella riduzione della trombosi tardiva dello stent rispetto all'elevato rischio emorragico
- Recenti studi hanno addirittura proposto una DAPT più breve: 1-3 mesi di ASA + inibitore recettori P2Y₁₂, poi solo quest'ultimo

Fattori che influenzano la durata ottimale della DAPT dopo PCI e/o ACS

	Shorter time of DAPT	Longer time of DAPT
Patient-related factors 	<ul style="list-style-type: none"> Patients with stable CAD Patients with a history of bleeding Patients with high risk of bleeding 	<ul style="list-style-type: none"> Patients with ACS Patients with diabetes mellitus Patients with renal dysfunction Patients with CHF Patients with previous ST Patients with PAD
Anatomy-related factors 	<ul style="list-style-type: none"> Short lesion Single-vessel disease 	<ul style="list-style-type: none"> Long lesion Small vessel Bifurcation lesion Complex anatomy Left-main coronary artery
Stent-related factors 	<ul style="list-style-type: none"> Second-generation DES 	<ul style="list-style-type: none"> First-generation DES Long stent Multiple stents

**Doppia terapia antiaggregante per
sindrome coronarica acuta e/o PCI in
pazienti con indicazione ad
anticoagulazione orale:**

TRIPLA TERAPIA ANTITROMBOTICA

Doppia terapia antiaggregante per pazienti in anticoagulazione orale (triplice terapia)

Perché è utile

- Circa il 6–8% dei pz sottoposti a PCI hanno indicazione alla terapia anticoagulante a lungo termine per varie patologie quali FA, protesi valvolari meccaniche cardiache, tromboembolismo venoso
- Secondo le conoscenze attuali, in fase acuta la **DAPT è necessaria per prevenire la trombosi dello stent** ma non è sufficiente a prevenire lo stroke
- Viceversa, **la terapia anticoagulante orale è essenziale per la prevenzione dello stroke**, ma in fase acuta/subacuta non è idonea a prevenire nuovi eventi coronarici

Doppia terapia antiaggregante per pazienti in anticoagulazione orale (triplice terapia)

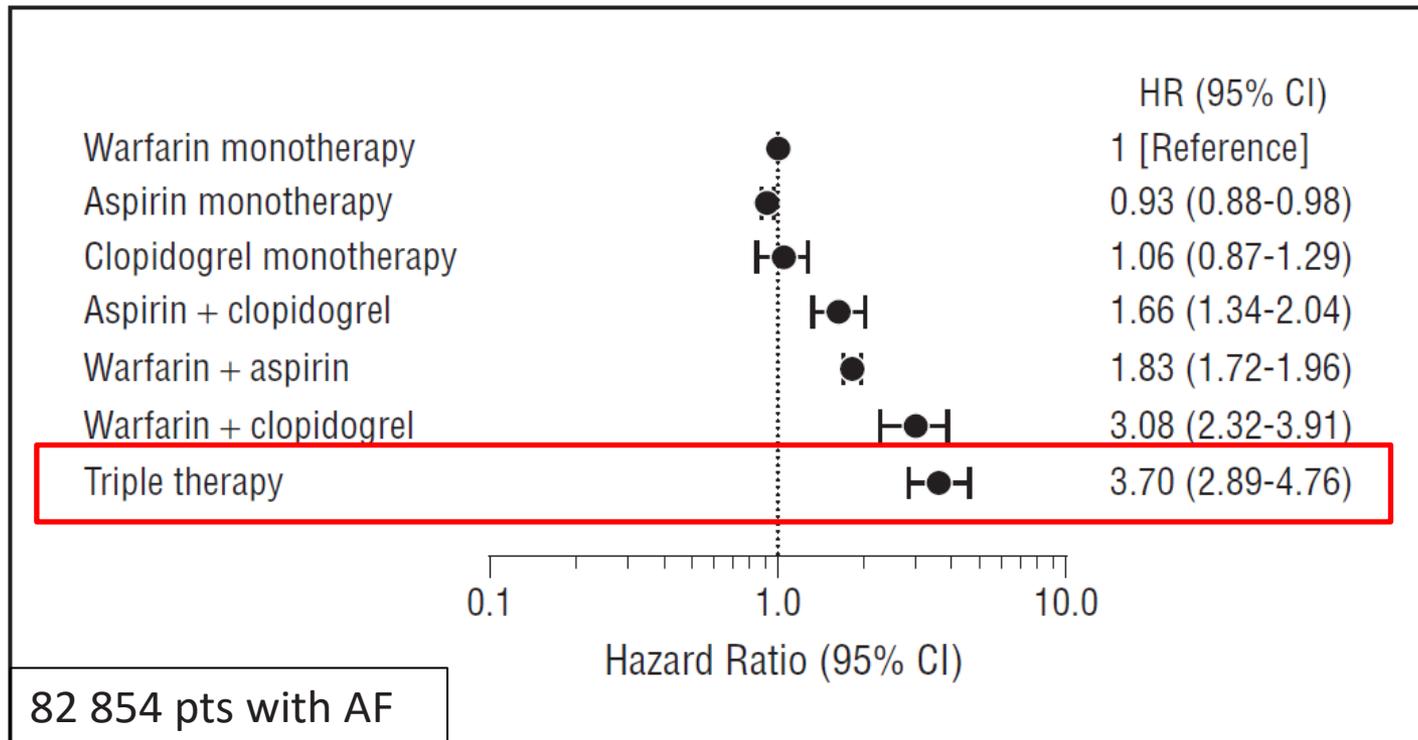
Quali rischi comporta

- Paragonata alla sola terapia anticoagulante orale, l'aggiunta della DAPT a questa **aumenta le complicanze emorragiche di circa 3 volte**
- Pertanto questi pz vanno considerati ad alto rischio di sanguinamento
- Le indicazioni alla terapia anticoagulante orale vanno attentamente rivalutate
- La triplice terapia va continuata solo fino a quando viene valutata assolutamente indispensabile

LESS IS MORE

Risk of Bleeding With Single, Dual, or Triple Therapy With Warfarin, Aspirin, and Clopidogrel in Patients With Atrial Fibrillation

Morten L. Hansen, MD, PhD; Rikke Sørensen, MD; Mette T. Clausen, MSc Pharm;
 Marie Louise Fog-Petersen, MSc Pharm; Jakob Raunsø, MD; Niels Gadsbøll, MD, DMSc; Gunnar H. Gislason, MD, PhD;
 Fredrik Folke, MD; Søren S. Andersen, MD; Tina K. Schramm, MD; Steen Z. Abildstrøm, MD, PhD;
 Henrik E. Poulsen, MD, DMSc; Lars Køber, MD, DMSc; Christian Torp-Pedersen, MD, DMSc





ESC

European Society
of Cardiology

Europace (2019) **21**, 192–193
doi:10.1093/europace/euy174

EHRA CONSENSUS DOCUMENT

2018 Joint European consensus document on the management of antithrombotic therapy in atrial fibrillation patients presenting with acute coronary syndrome and/or undergoing percutaneous cardiovascular interventions: a joint consensus document of the European Heart Rhythm Association (EHRA), European Society of Cardiology Working Group on Thrombosis, European Association of Percutaneous Cardiovascular Interventions (EAPCI), and European Association of Acute Cardiac Care (ACCA) endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS), Latin America Heart Rhythm Society (LAHRS), and Cardiac Arrhythmia Society of Southern Africa (CASSA)

- O** Oral anticoagulant with VKA (TTR>70%) or NOAC
- A** Aspirin
- C** Clopidogrel

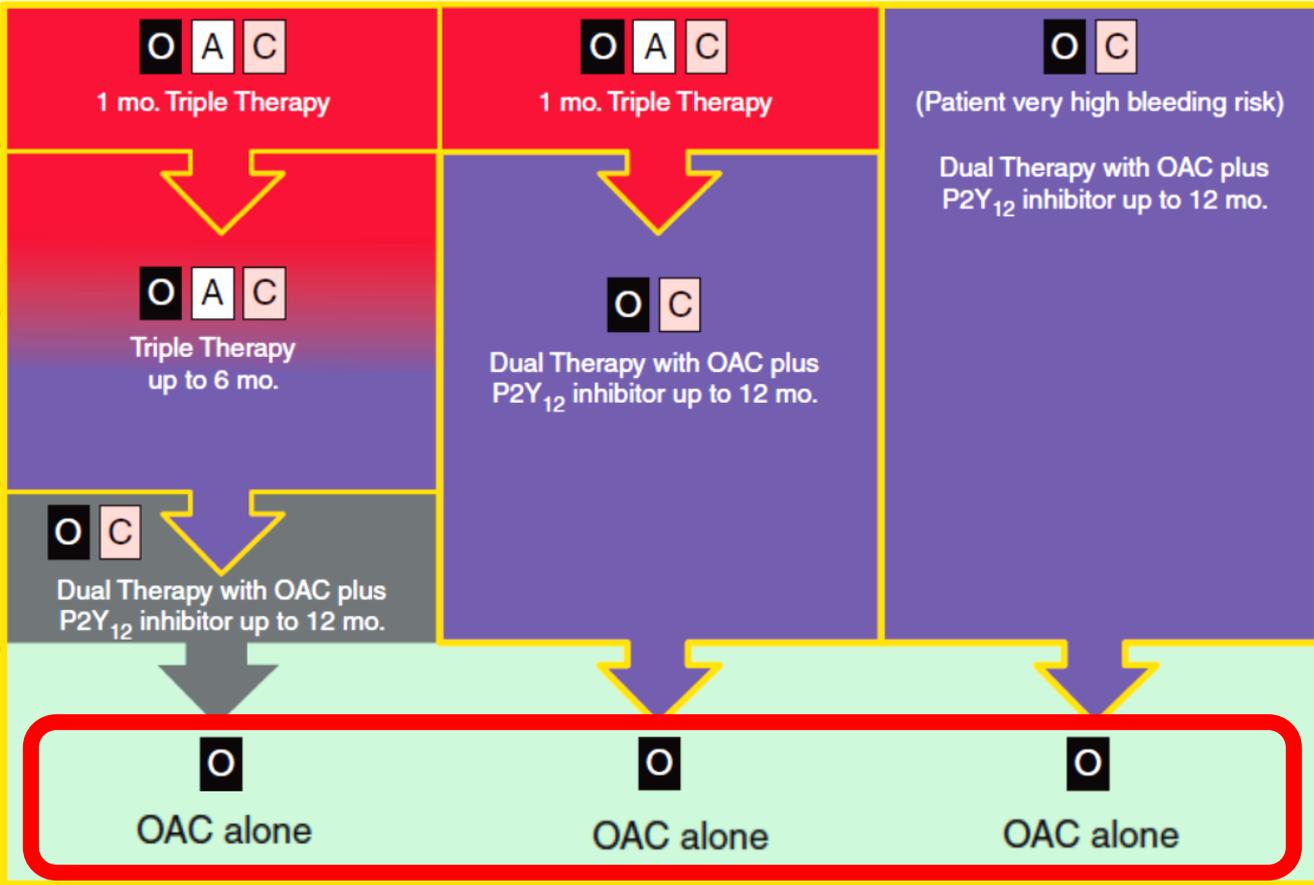
AF Patients presenting with Elective PCI or ACS undergoing PCI

Concerns about thrombotic risk² prevailing

Concerns about high bleeding risk³ prevailing

Time from treatment initiation

1mo.
3mo.
6mo.
12mo.
Beyond 12mo.



Sospensione della terapia antiaggregante

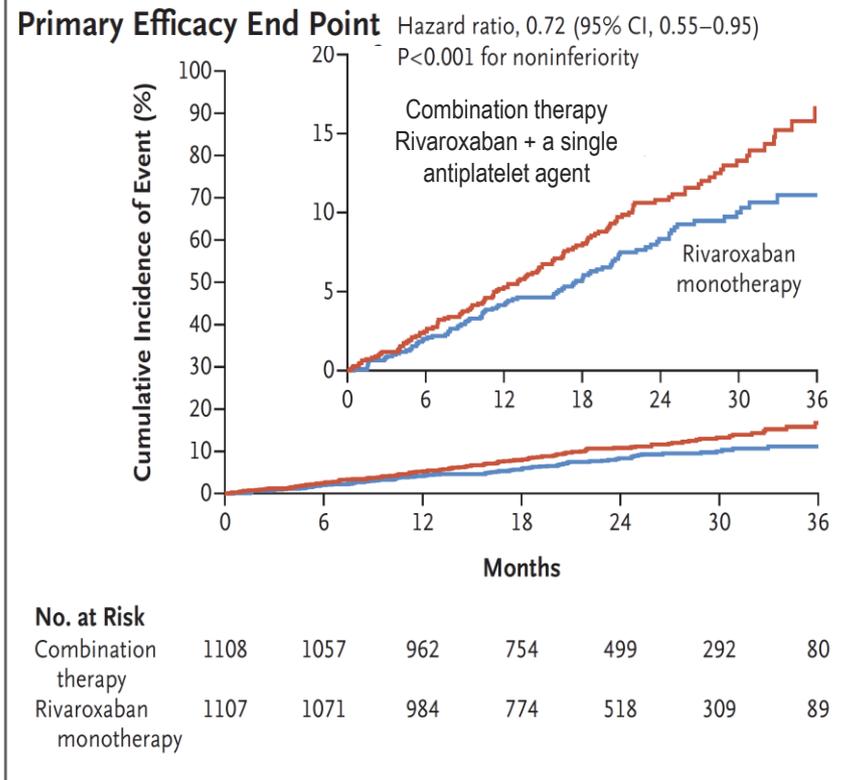
- I dati al riguardo non sono univoci
- Nei pz stabili e liberi da eventi, viene in genere consigliata la sospensione dei farmaci antiaggreganti a 1 anno dopo la procedura di stent
- Studi dimostrano che dopo tale periodo la terapia anticoagulante da sola è superiore all'aspirina, e che la TAO + aspirina non dà maggiore protezione ma è associata con un maggiore rischio emorragico

Antithrombotic Therapy for Atrial Fibrillation with Stable Coronary Disease

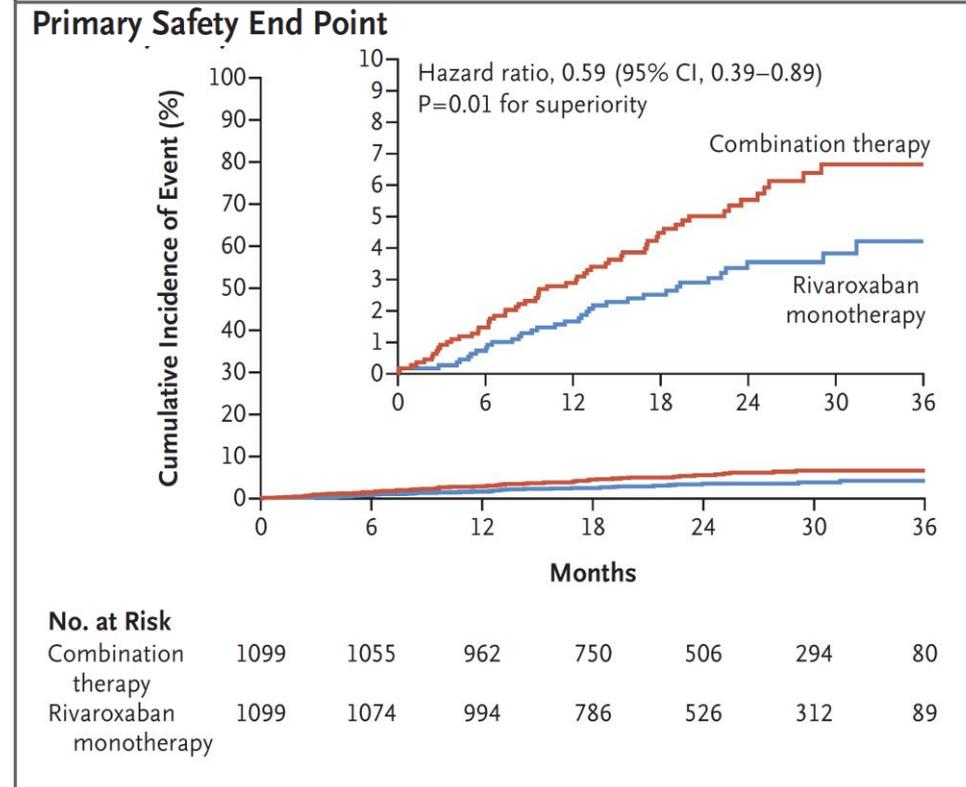
AFIRE Investigators

NEJM September 19, 2019; 381:1103-1113

Stroke, systemic embolism, MI, unstable angina requiring revascularization, or death from any cause



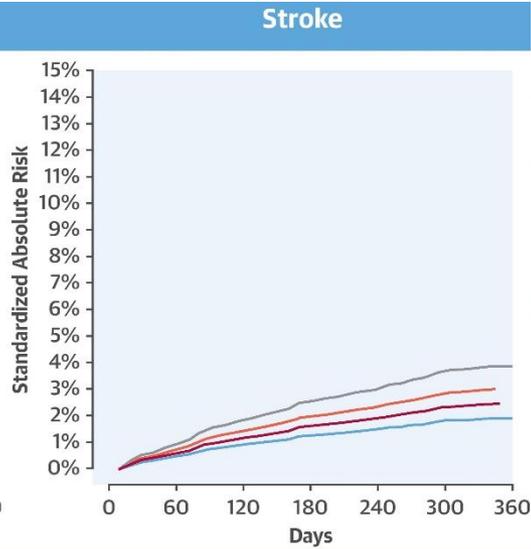
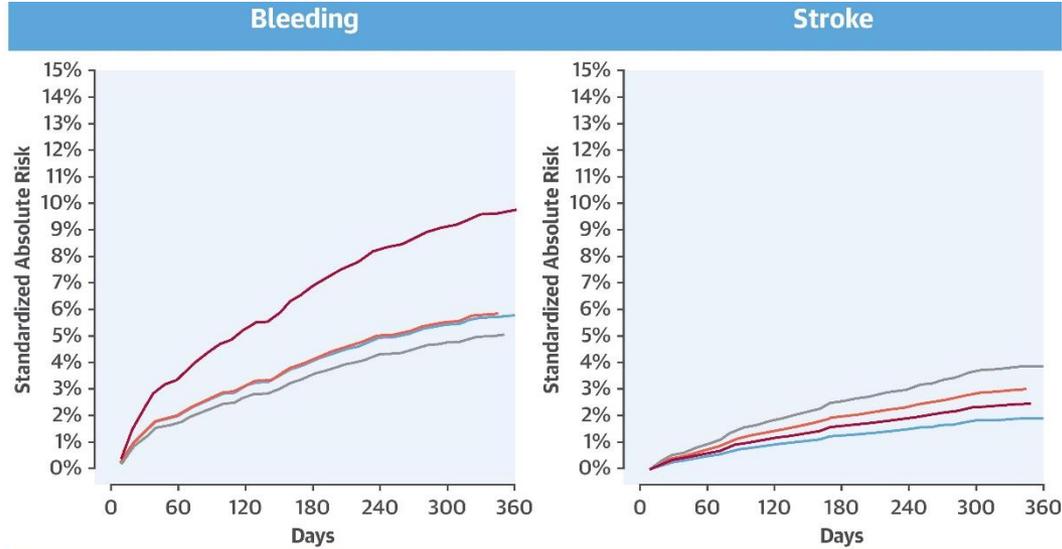
Major bleeding



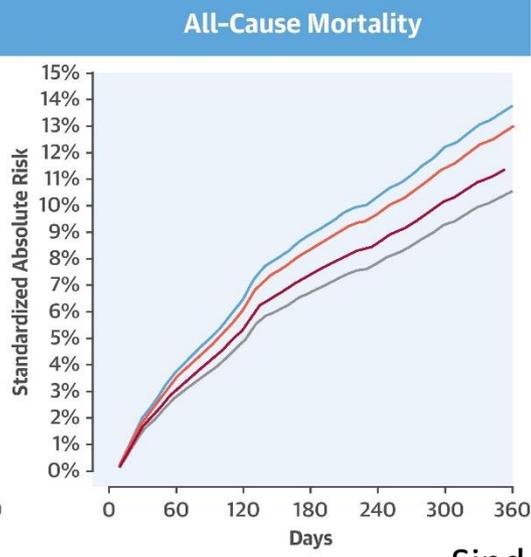
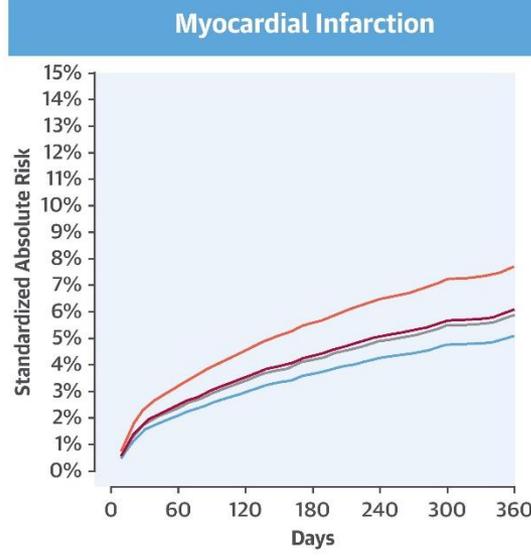
RESULTS. The trial was stopped early because of increased mortality in the combination therapy group. Rivaroxaban monotherapy was noninferior for efficacy to combination therapy and superior for safety in pts with atrial fibrillation and stable coronary artery disease.

**Impiego dei NOACs
nella tripla e/o nella
doppia terapia**

Registro Naz. Danese - Rischio di sanguinamento, stroke ischemico, MI e morte associati a terapia con DOACs vs antagonisti della vitamina K (VKA) in combinazione con ASA o clopidogrel (SAPT) o entrambi (DAPT) in pz con FA dopo MI e/o PCI

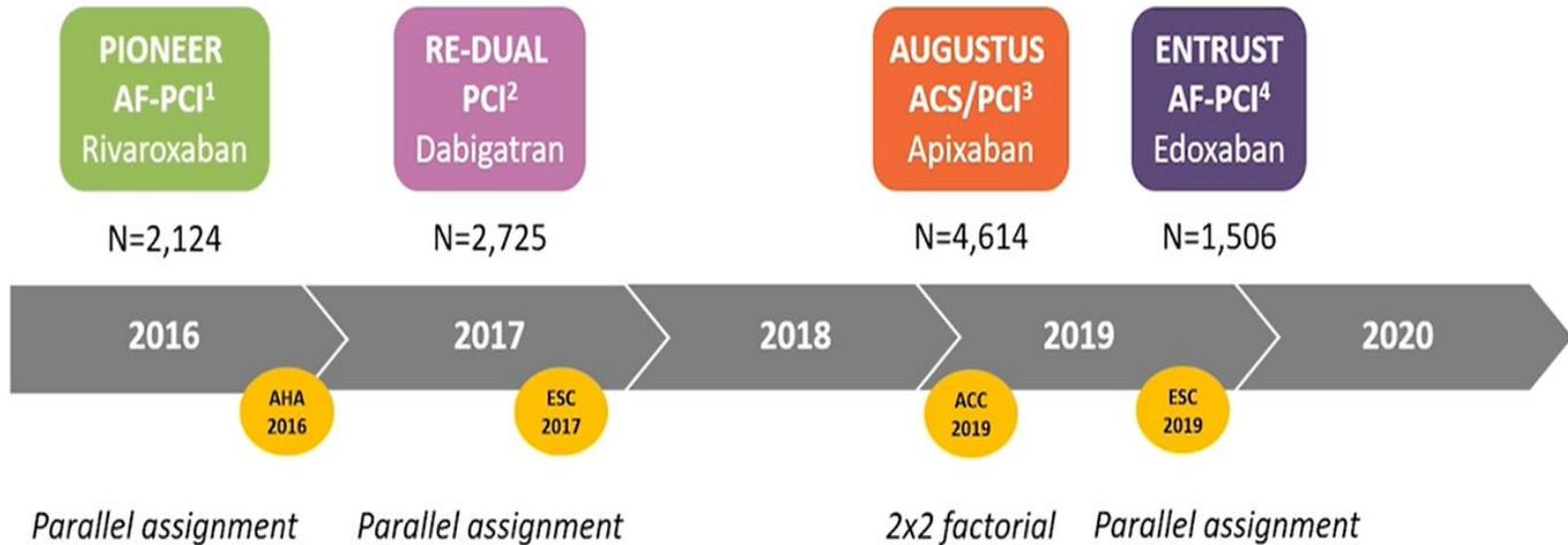


- Direct Oral Anticoagulant (DOAC) + Single Antiplatelet Therapy (SAPT)
- Vitamin K Antagonist (VKA) + SAPT
- DOAC + DAPT
- VKA + DAPT



I risultati di questo studio dimostrano la maggiore sicurezza ed efficacia della terapia con DOACs rispetto a VKAs in una popolazione real-world di pazienti con FA dopo MI o PCI

NOACs nella FA + ACS/PCI



All 4 trials are powered for safety (bleeding) and underpowered for efficacy (ischaemic endpoints)

The NEW ENGLAND JOURNAL *of* MEDICINE

ESTABLISHED IN 1812

DECEMBER 22, 2016

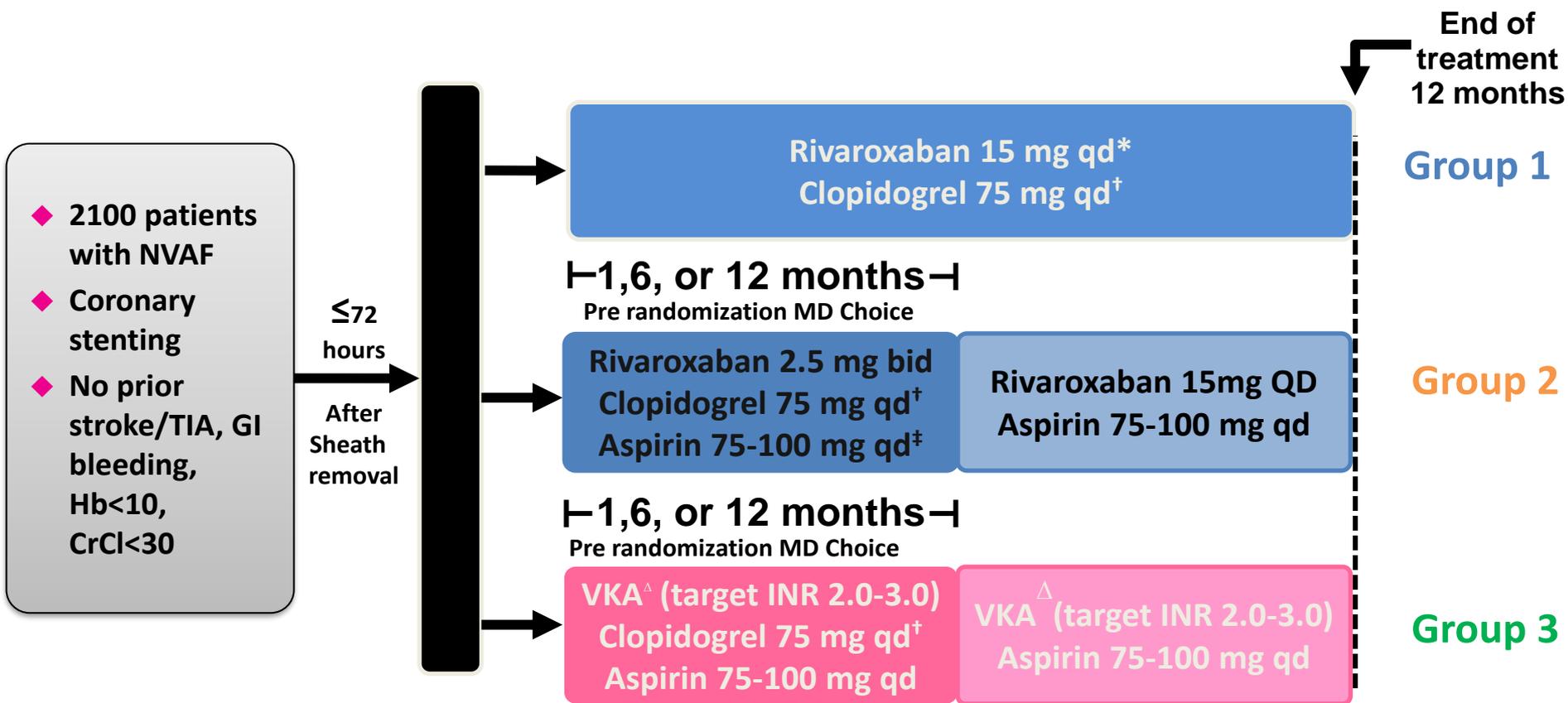
VOL. 375 NO. 25

Prevention of Bleeding in Patients with Atrial Fibrillation Undergoing PCI

C. Michael Gibson, M.D., Roxana Mehran, M.D., Christoph Bode, M.D., Jonathan Halperin, M.D.,
Freek W. Verheugt, M.D., Peter Wildgoose, Ph.D., Mary Birmingham, Pharm.D., Juliana Janus, Ph.D.,
Paul Burton, M.D., Ph.D., Martin van Eickels, M.D., Serge Korjian, M.D., Yazan Daaboul, M.D., Gregory Y.H. Lip, M.D.,
Marc Cohen, M.D., Steen Husted, M.D., Eric D. Peterson, M.D., M.P.H., and Keith A. Fox, M.B., Ch.B.



Patients With Atrial Fibrillation Undergoing Coronary Stent Placement: PIONEER AF-PCI



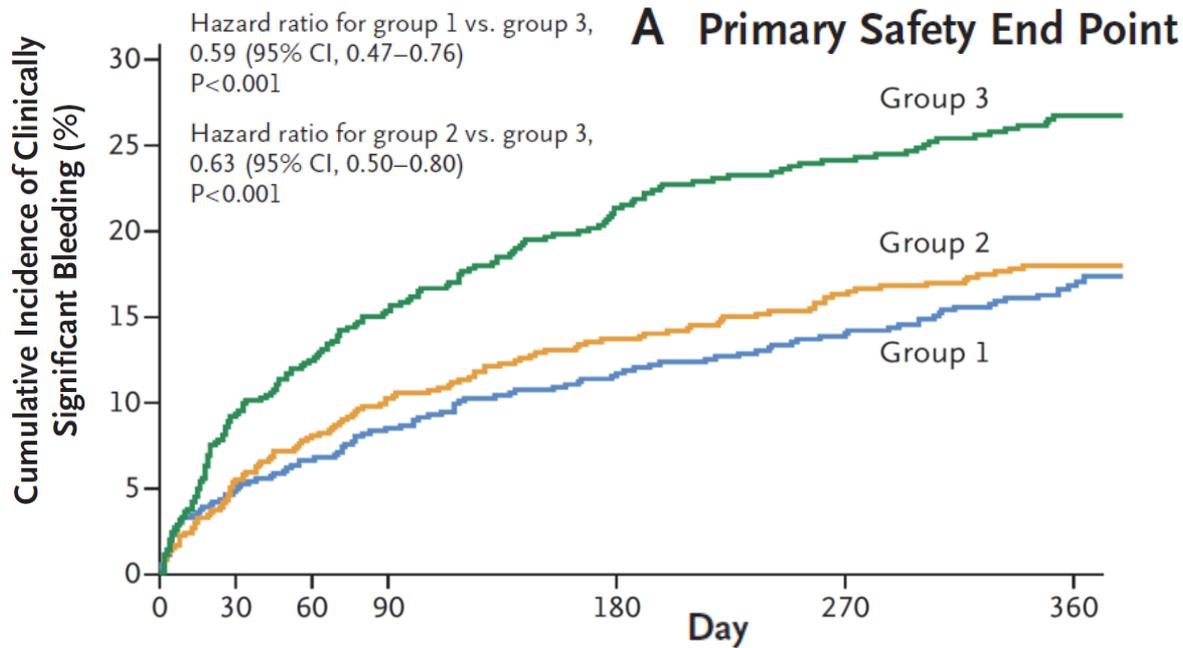
- Primary endpoint: TIMI major + minor + bleeding requiring medical attention
- Secondary endpoint: CV death, MI, and stroke (Ischemic, Hemorrhagic, or Uncertain Origin)

Rivaroxaban dosed at 10 mg once daily in patients with CrCl of 30 to <50 mL/min.

[†]Alternative P2Y₁₂ inhibitors: 10 mg once-daily prasugrel or 90 mg twice-daily ticagrelor.

[‡]Low-dose aspirin (75-100 mg/d). ^Δ Open label VKA

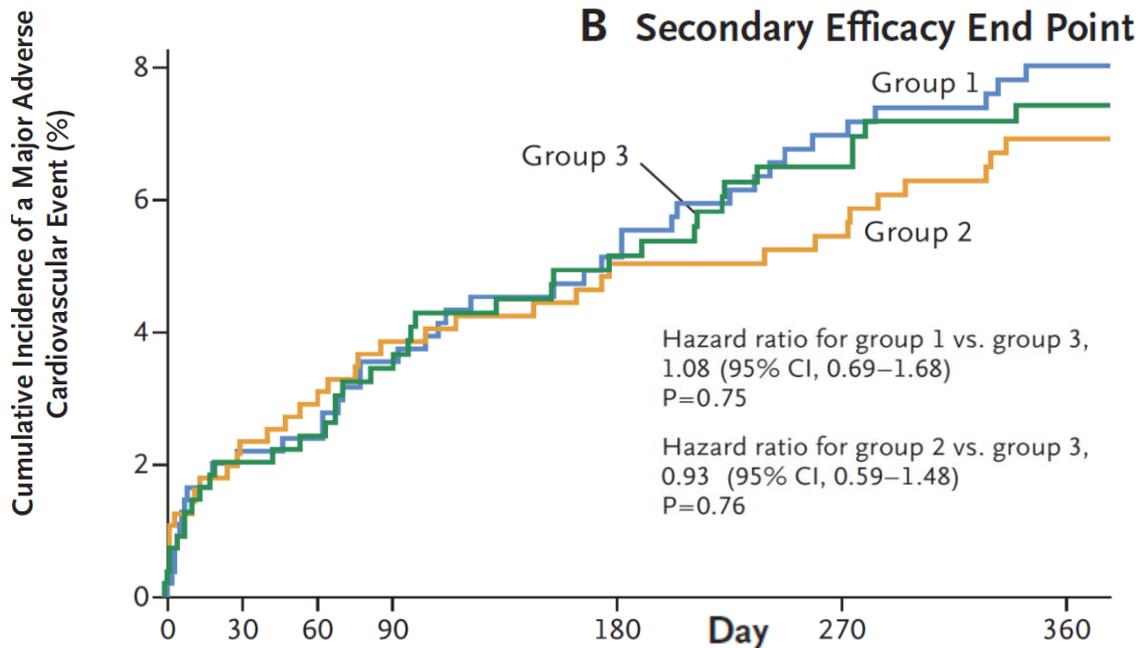
Gibson et al. NEJM 2016;375:2423-34



Group 1
rivaroxaban (15 mg once daily) plus a P2Y₁₂ inhibitor for 12 months

Group 2
rivaroxaban (2.5 mg twice daily) plus DAPT for 1, 6, or 12 months

Group 3
Triple therapy with a vitamin K antagonist (once daily) plus DAPT for 1, 6, or 12 months



The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

OCTOBER 19, 2017

VOL. 377 NO. 16

Dual Antithrombotic Therapy with Dabigatran after PCI in Atrial Fibrillation

Christopher P. Cannon, M.D., Deepak L. Bhatt, M.D., M.P.H., Jonas Oldgren, M.D., Ph.D., Gregory Y.H. Lip, M.D., Stephen G. Ellis, M.D., Takeshi Kimura, M.D., Michael Maeng, M.D., Ph.D., Bela Merkely, M.D., Uwe Zeymer, M.D., Savion Gropper, M.D., Ph.D., Matias Nordaby, M.D., Eva Kleine, M.Sc., Ruth Harper, Ph.D., Jenny Manassie, B.Med.Sc., James L. Januzzi, M.D., Jurrien M. ten Berg, M.D., Ph.D., P. Gabriel Steg, M.D., and Stefan H. Hohnloser, M.D., for the RE-DUAL PCI Steering Committee and Investigators*



RE-DUAL PCI™

Study in NVAF patients undergoing PCI

2725 patients with AF who had undergone PCI assigned to **triple therapy** with **warfarin plus a P2Y₁₂ inhibitor** (clopidogrel or ticagrelor) and **aspirin** (for 1 to 3 months) (triple-therapy group) or **dual therapy** with **dabigatran** (110 mg or 150 mg twice daily) **plus a P2Y₁₂ inhibitor** (clopidogrel or ticagrelor) and no aspirin (110-mg and 150-mg dual-therapy groups).

Evaluation of Dual Therapy With Dabigatran vs. Triple Therapy With Warfarin in Patients With AF That Undergo a PCI With Stenting



Study in NVAF patients undergoing PCI

Worldwide event-driven trial with 2840 patients per arm (Total = 8520 patients)

Paroxysmal, persistent or permanent NVAF (PCI with stenting [BMS or DES] elective or ACS)

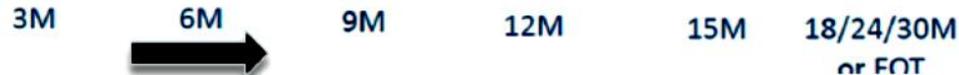


Randomisation can occur up to 120 hours post PCI, however within 72 hours is preferable. Study drug should be administered 6 hours after sheath removal, preferably within 72 hours post PCI, however up to 120 hours post PCI is allowed

Dabigatran 150mg BID + P2Y12 inhibitor¹

Dabigatran 110mg BID¹ + P2Y12 inhibitor²

Warfarin (INR 2.0-3.0) + P2Y12 inhibitor + ASA*



Major Bleeding Event or Clinically Relevant Non Major Bleeding Event (International Society of Thrombosis and Haemostasis grading)

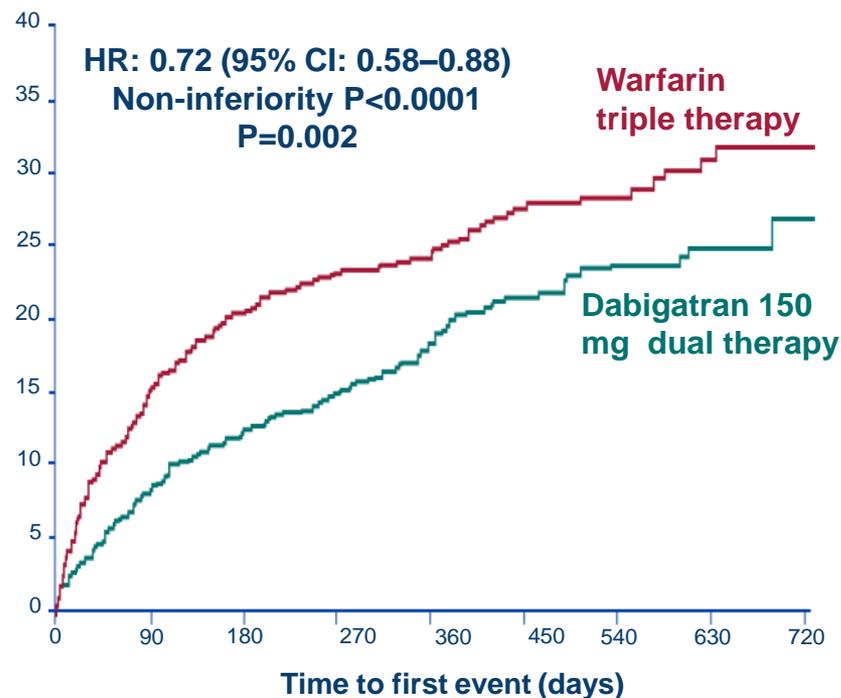
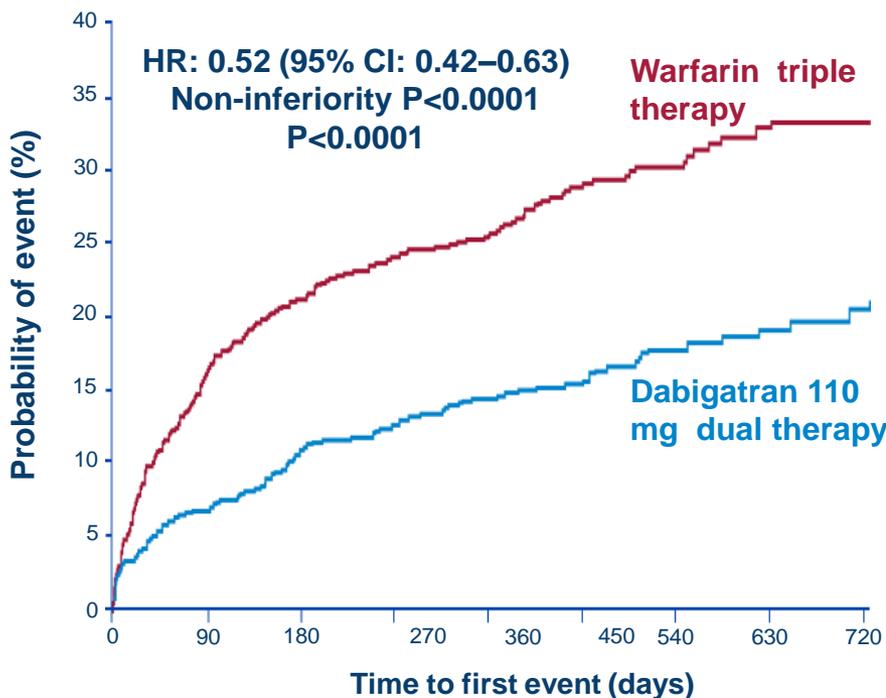
¹ Clopidogrel or ticagrelor can be discontinued or switched to ASA (≤100mg QD) from month 12, at investigator discretion

² ASA will be discontinued in patients randomized to receive warfarin at 1 month (BMS) and 3 months (DES)

* Patients aged ≥80 years outside of the US will only be randomized to dabigatran etexilate 110mg bid or warfarin



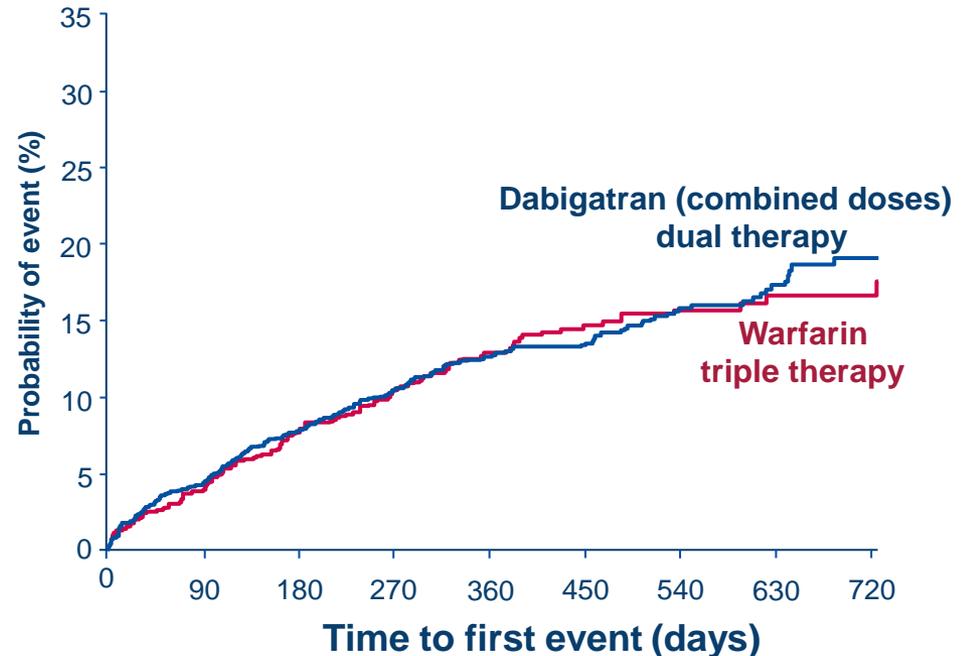
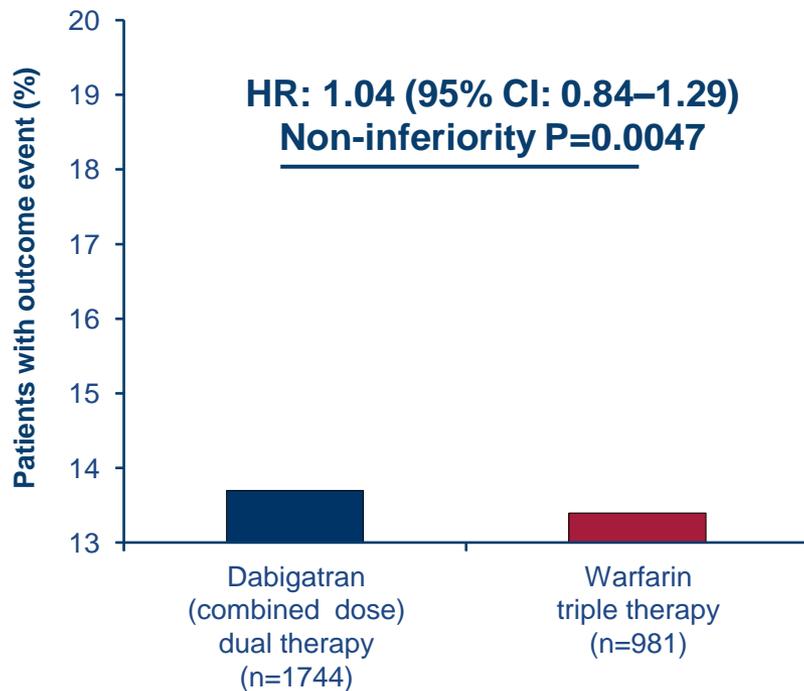
Primary Endpoint: Time to first ISTH major or clinically relevant non-major bleeding event



Full analysis set presented. HRs and Wald CIs from Cox proportional-hazard model. For the dabigatran 110 mg vs warfarin comparison, the model is stratified by age, non-elderly vs elderly (<70 or ≥70 in Japan and <80 or ≥80 years old elsewhere). For the dabigatran 150 mg vs warfarin comparison, an unstratified model is used, elderly patients outside the USA are excluded. Non-inferiority P value is one sided (alpha=0.025). Wald two-sided P value from (stratified) Cox proportional-hazard model (alpha=0.05)



Time to death or thromboembolic event or unplanned revascularization



Non-inferiority P value is one sided (alpha=0.025). Results presented are Step 3 of hierarchical testing procedure, testing non-inferiority of dabigatran dual therapy (combined doses) to warfarin triple therapy in death or thromboembolic event and unplanned revascularization

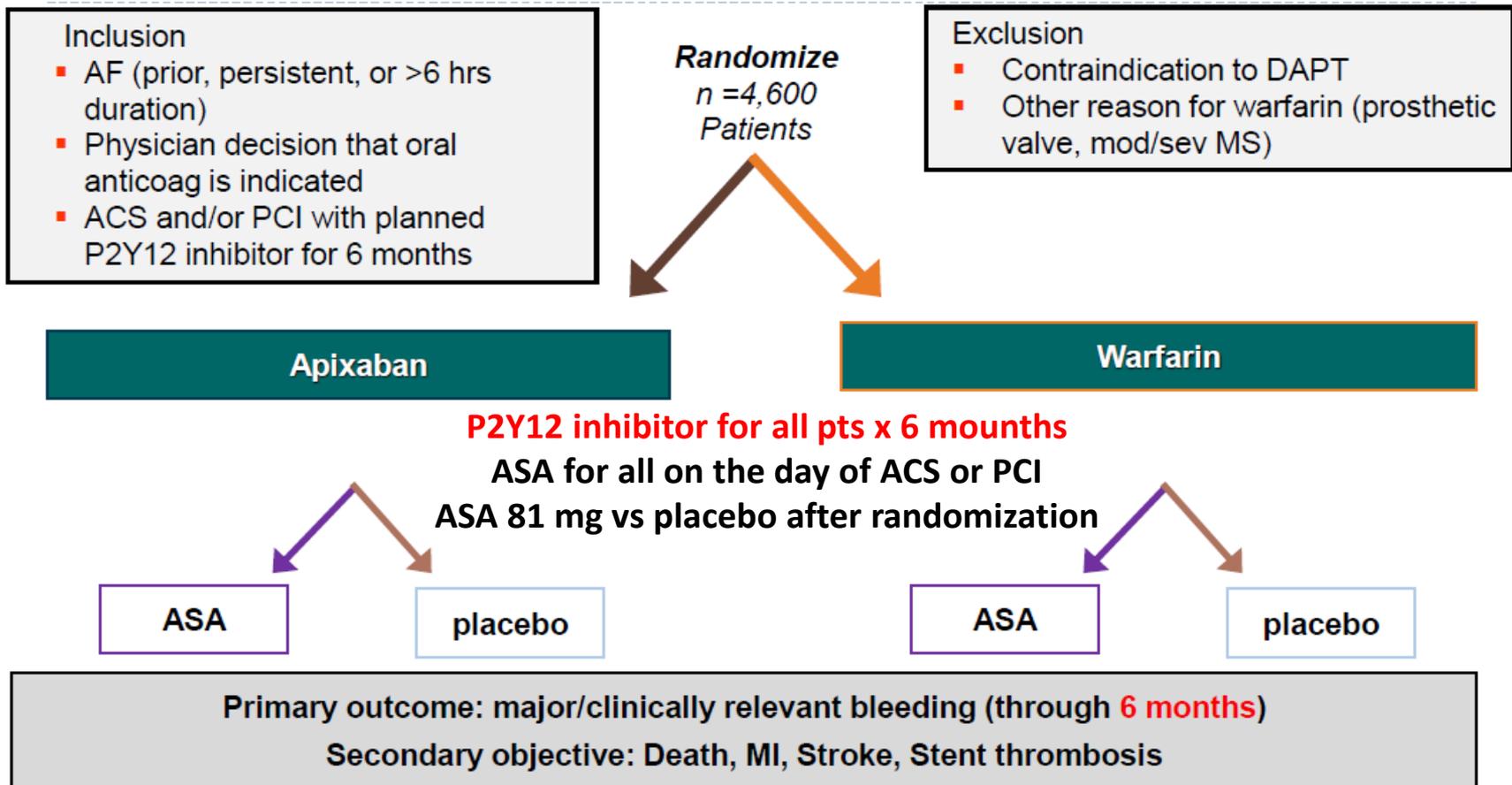
ORIGINAL ARTICLE

Antithrombotic Therapy after Acute Coronary Syndrome or PCI in Atrial Fibrillation

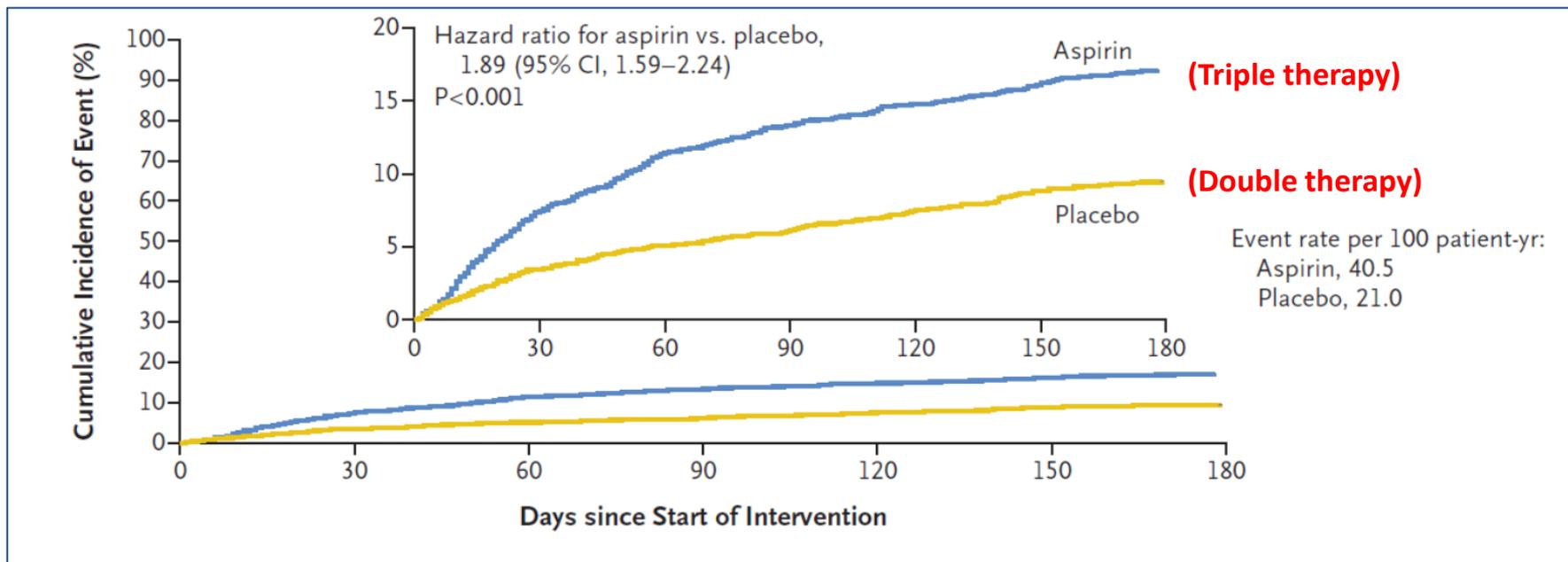
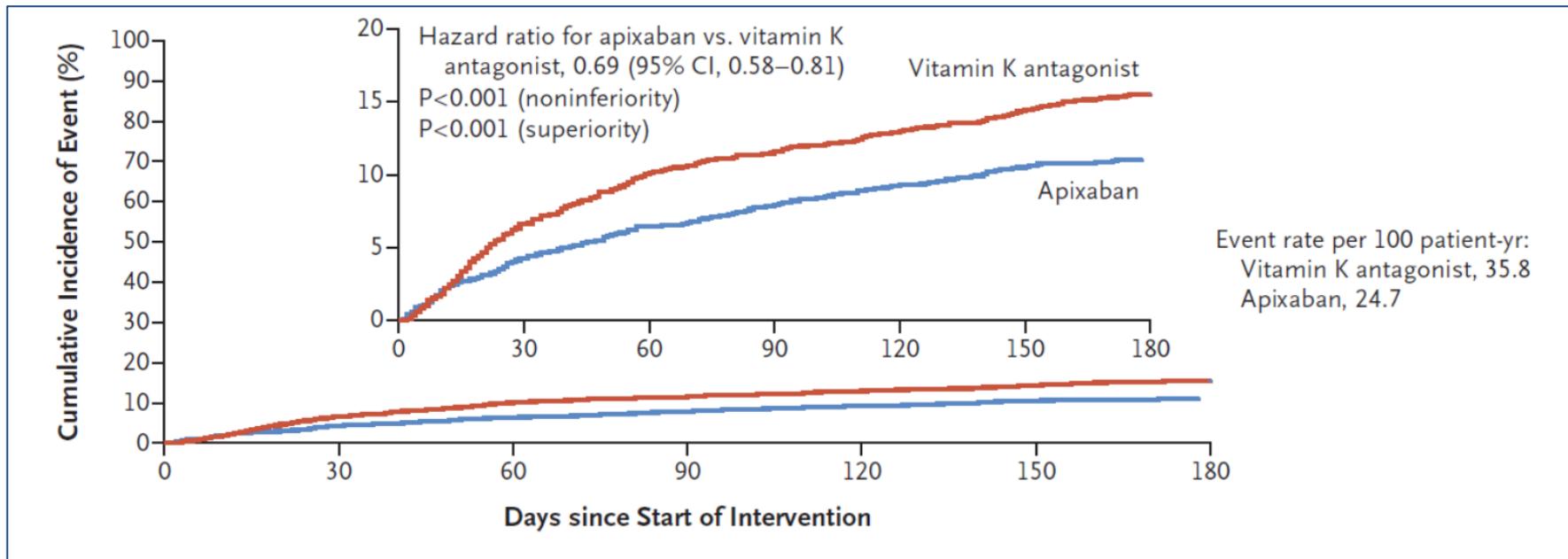
Renato D. Lopes, M.D., Ph.D., Gretchen Heizer, M.S., Ronald Aronson, M.D., Amit N. Vora, M.D., M.P.H., Tyler Massaro, Ph.D., Roxana Mehran, M.D., Shaun G. Goodman, M.D., Stephan Windecker, M.D., Harald Darius, M.D., Jia Li, Ph.D., Oleg Averkov, M.D., Ph.D., M. Cecilia Bahit, M.D., Otavio Berwanger, M.D., Ph.D., Andrzej Budaj, M.D., Ph.D., Ziad Hijazi, M.D., Ph.D., Alexander Parkhomenko, M.D., Ph.D., Peter Sinnaeve, M.D., Ph.D., Robert F. Storey, M.D., Holger Thiele, M.D., Dragos Vinereanu, M.D., Ph.D., Christopher B. Granger, M.D., and John H. Alexander, M.D., M.H.S., for the AUGUSTUS Investigators*

17 March 2019

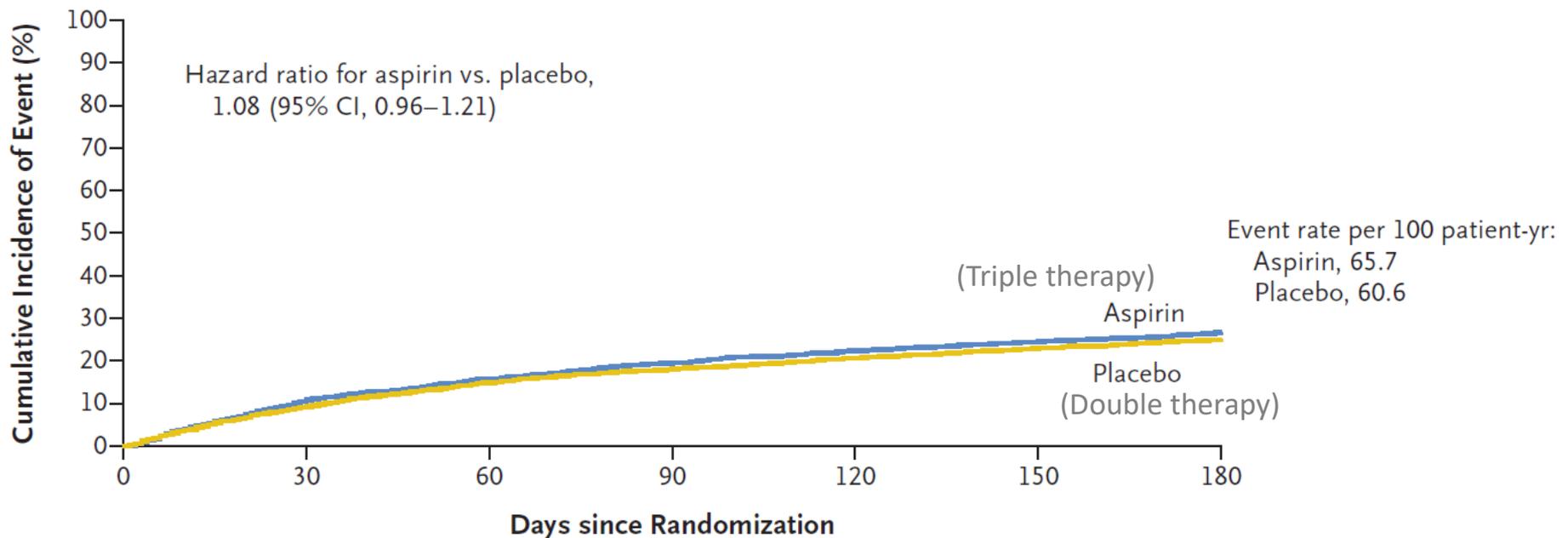
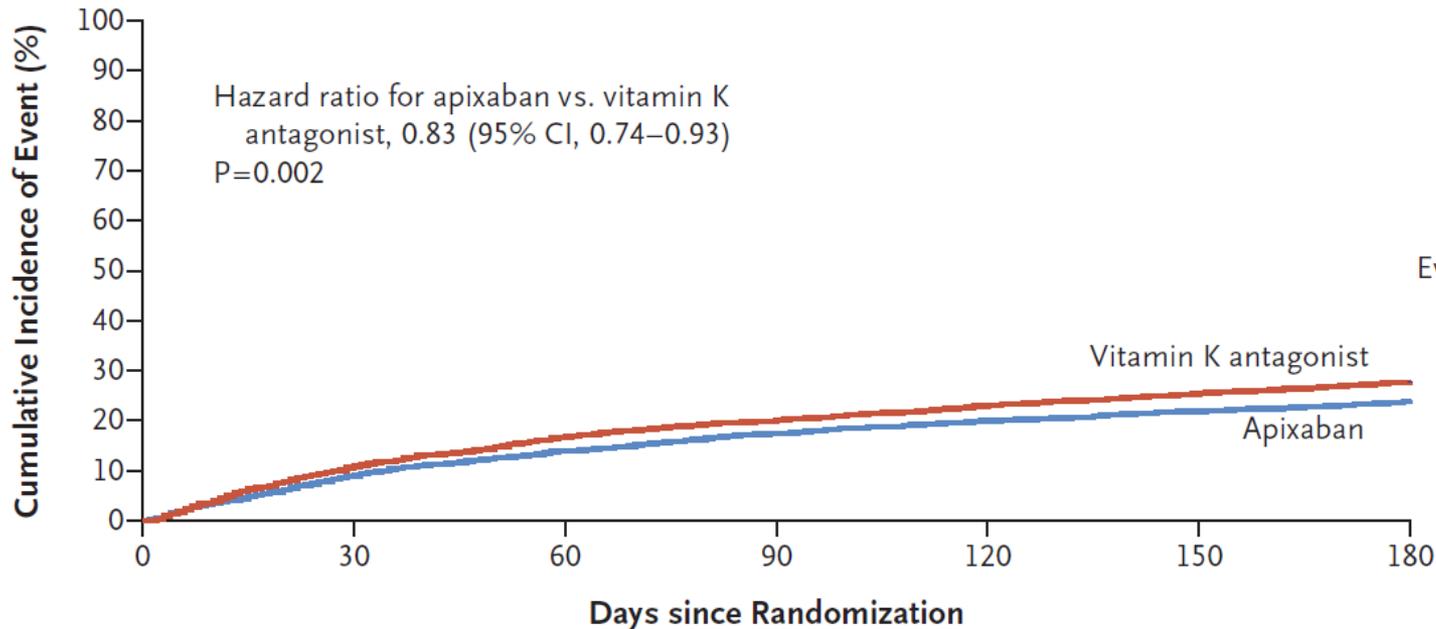
Apixaban Versus Warfarin in Patients with AF and ACS or PCI: The AUGUSTUS Trial



Primary outcome - major or clinically relevant nonmajor bleeding



Secondary outcome – death or hospitalization



Edoxaban-based versus vitamin K antagonist-based antithrombotic regimen after successful coronary stenting in patients with atrial fibrillation (ENTRUST-AF PCI): a randomised, open-label, phase 3b trial

Pascal Vranckx, Marco Valgimigli, Lars Eckardt, Jan Tijssen, Thorsten Lewalter, Giuseppe Gargiulo, Valerii Batushkin, Gianluca Campo, Zoreslava Lysak, Igor Vakaliuk, Krzysztof Milewski, Petra Laeis, Paul-Egbert Reimitz, Rüdiger Smolnik, Wolfgang Zierhut, Andreas Goette

The Lancet Published online September 3, 2019

Patients with AF requiring oral anticoagulation, had a successful PCI for stable coronary artery disease or acute coronary syndrome.

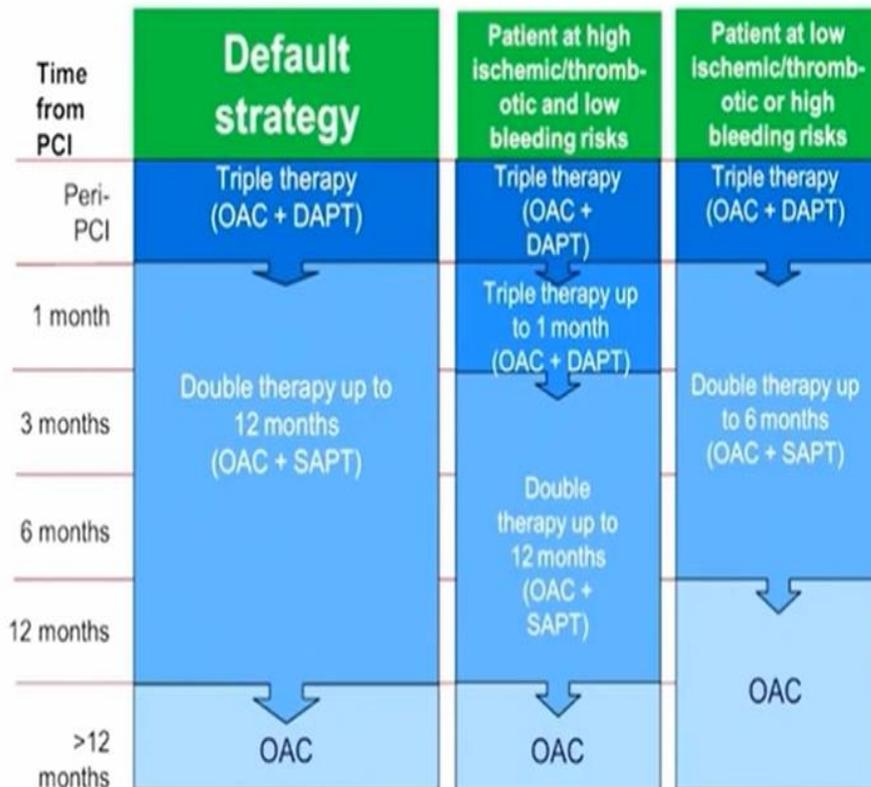
Participants were randomly assigned (1:1) from 4 h to 5 days after PCI to either **edoxaban (60 or 30 mg once daily) plus a P2Y12 inhibitor for 12 months** or **a vitamin K antagonist (VKA) in combination with a P2Y12 inhibitor and aspirin (100 mg once daily, for 1–12 months)**.

	Edoxaban regimen	VKA regimen	Hazard ratio (two-sided 95% CI)	p value
Primary outcome of major or CRNM bleeding (ISTH)				
Intention-to-treat analysis				
Number of patients	751	755
Number of patients with event	128 (17%)	152 (20%)
Annualised event rate	20.7	25.6	0.83 (0.65–1.05)	Non-inferiority p=0.0010; superiority p=0.1154
On-treatment analysis				
Number of patients	746	740
Number of patients with event	124 (17%)	142 (19%)
Annualised event rate	20.7	25.5	0.84 (0.66–1.06)	Non-inferiority p=0.0016; superiority p=0.1434

Interpretation In patients with atrial fibrillation who had PCI, the edoxaban-based regimen was non-inferior for bleeding compared with the VKA-based regimen, without significant differences in ischaemic events.

Differenze tra Raccomandazioni Americane 2018 ed Europee 2018

North American Expert Consensus¹



OAC: NOAC is preferred over VKA (if no contraindications)

SAPT: P2Y12 inhibitor is preferred over ASA

Clopidogrel is the P2Y12 inhibitor of choice; ticagrelor may be considered in patients at high ischemic/thrombotic and low bleeding risks; avoid prasugrel

Consider SAPT in addition to OAC after >12 months only in selected patients at high ischemic/thrombotic and low bleeding risks

O Oral anticoagulation with VKA (TTR >70%) or NOAC; **A** ASA; **C** clopidogrel; GRACE, Global Registry of Acute Cardiac Events; LAD, left anterior descending; SAPT, single antiplatelet therapy; TTR, time in therapeutic range. 1. Angiolillo et al. *Circulation* 2018;138:527; 2. Lip et al. *Europace* 2018;21:192

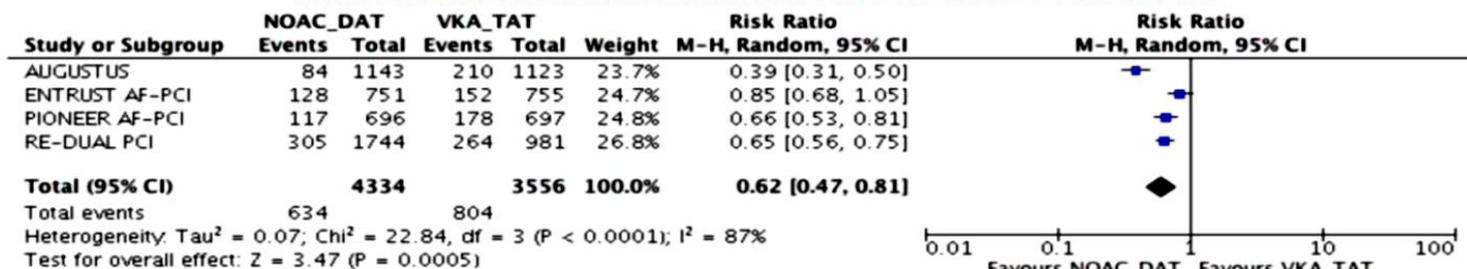
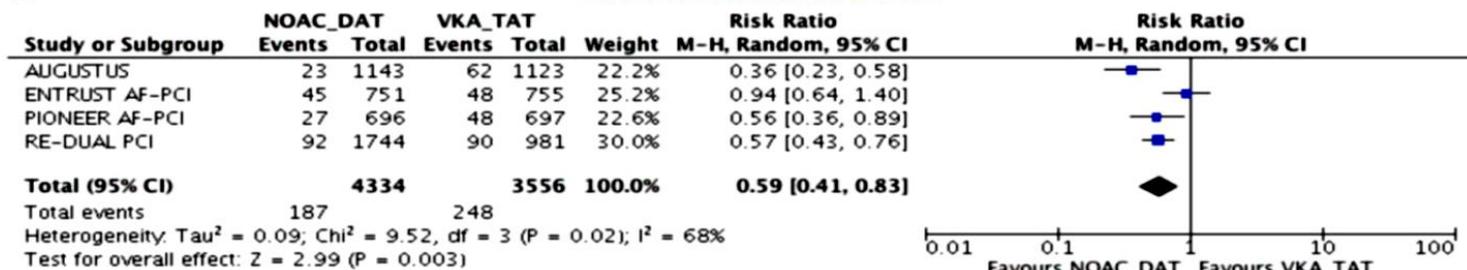
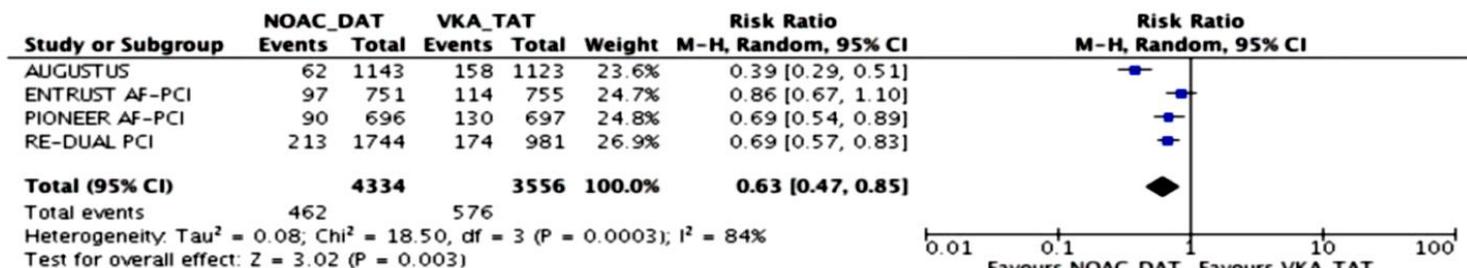
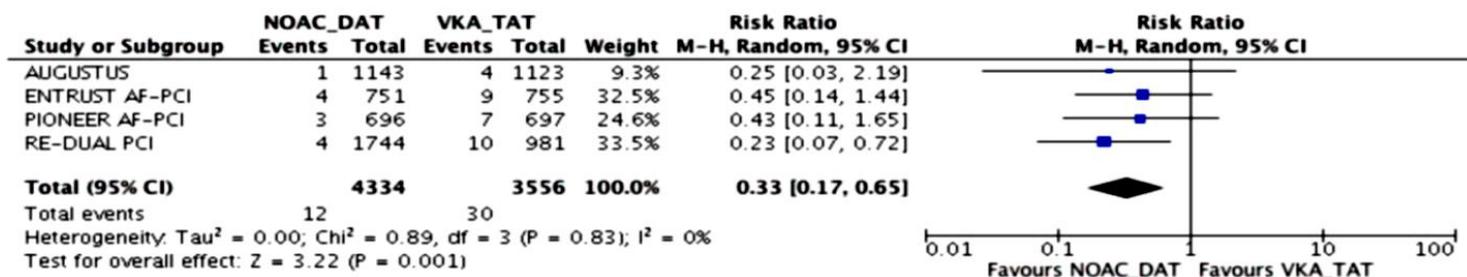
Safety and efficacy outcomes of double vs. triple antithrombotic therapy in patients with atrial fibrillation following percutaneous coronary intervention: a systematic review and meta-analysis of non-vitamin K antagonist oral anticoagulant-based randomized clinical trials

Giuseppe Gargiulo ^{1,2†}, **Andreas Goette**^{3,4,5†}, **Jan Tijssen**^{6,7}, **Lars Eckardt**^{5,8}, **Thorsten Lewalter**^{5,9}, **Pascal Vranckx**^{10‡}, and **Marco Valgimigli** ^{1‡}

4 included randomized clinical trials:

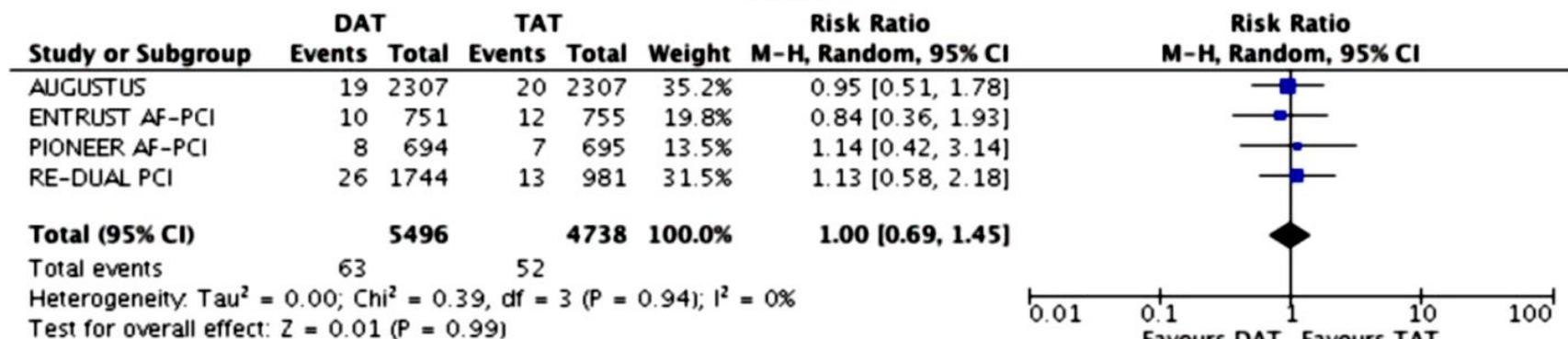
- PIONEER AF-PCI
- RE-DUAL PCI
- AUGUSTUS
- ENTRUST AF-PCI

10 234 patients (DAT = 5496 vs. TAT = 4738)

A**ISTH MAJOR OR CLINICALLY RELEVANT NONMAJOR BLEEDING****B****ISTH MAJOR BLEEDING****C****CLINICALLY RELEVANT NONMAJOR BLEEDING****D****INTRACRANIAL HAEMORRHAGE**

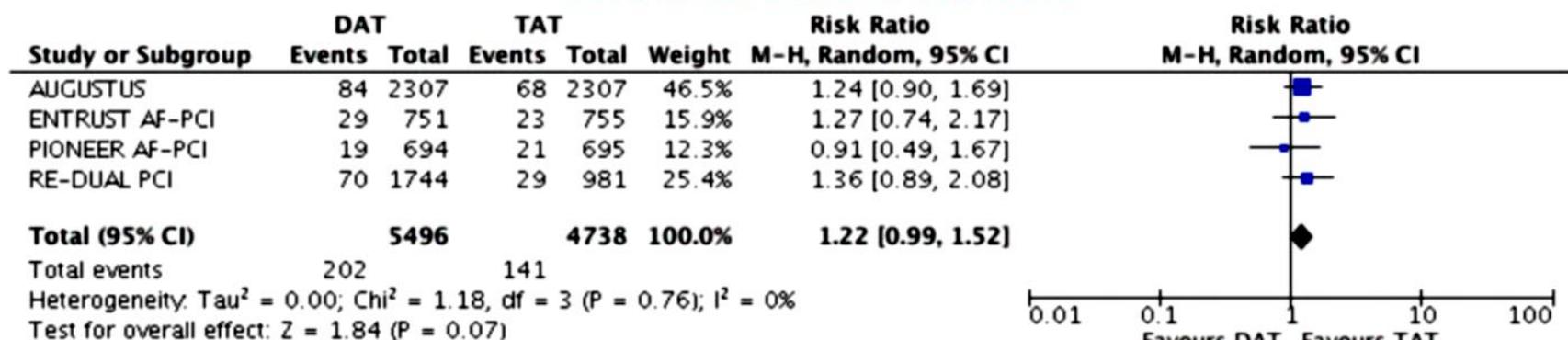
A

STROKE



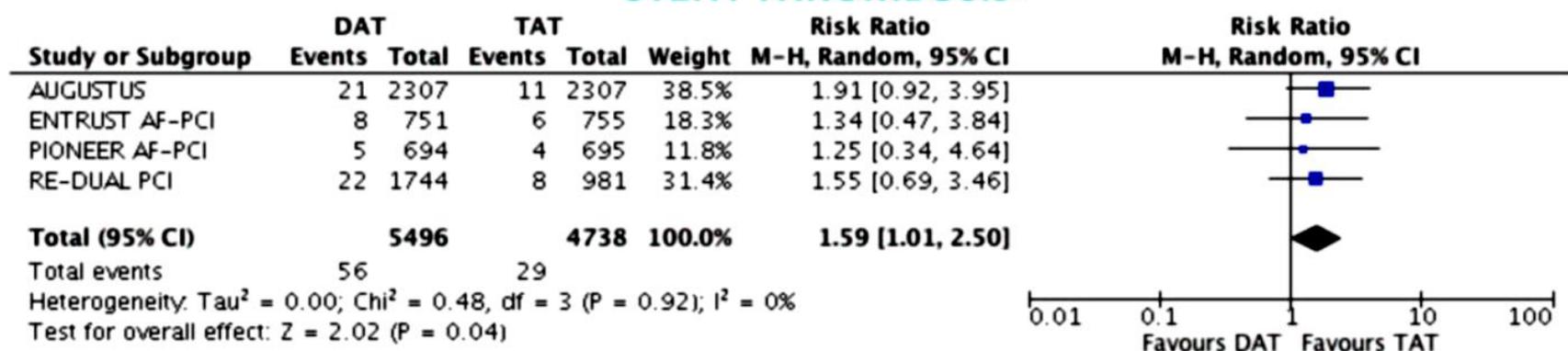
B

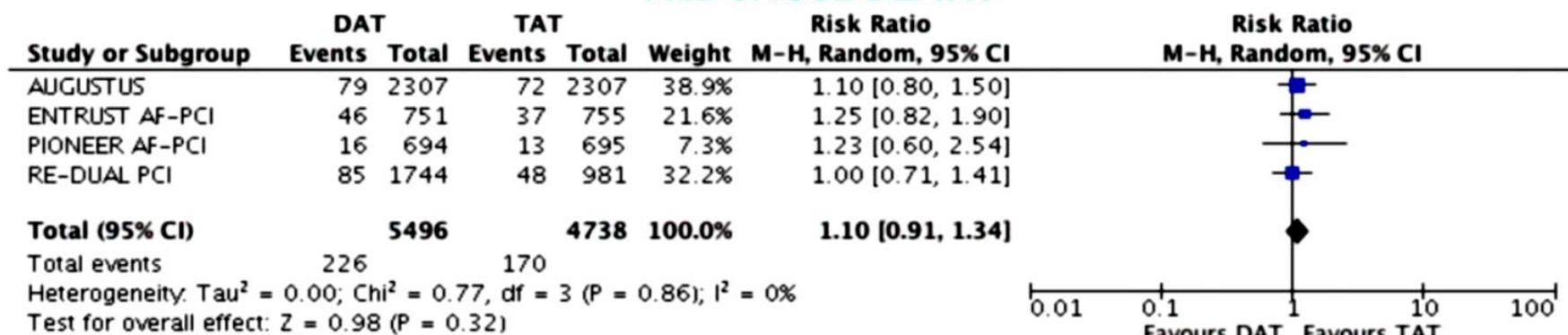
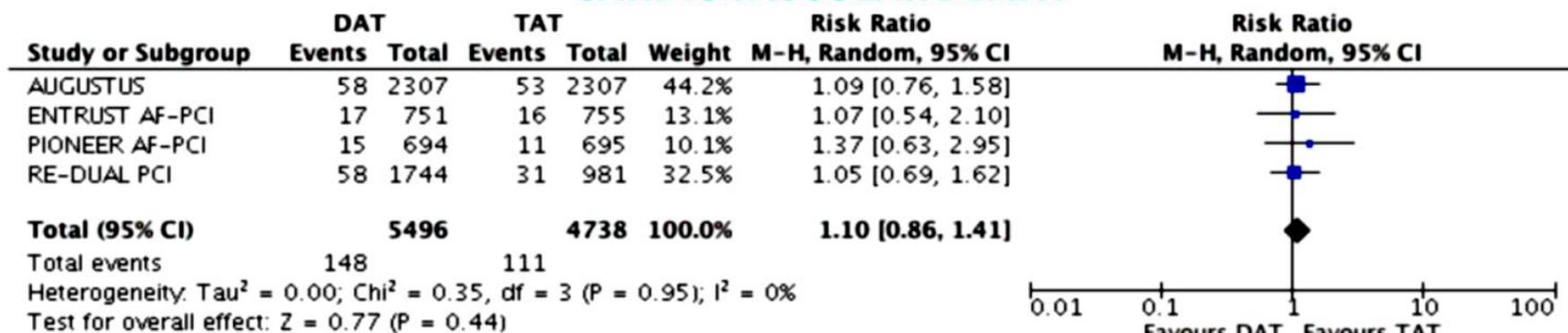
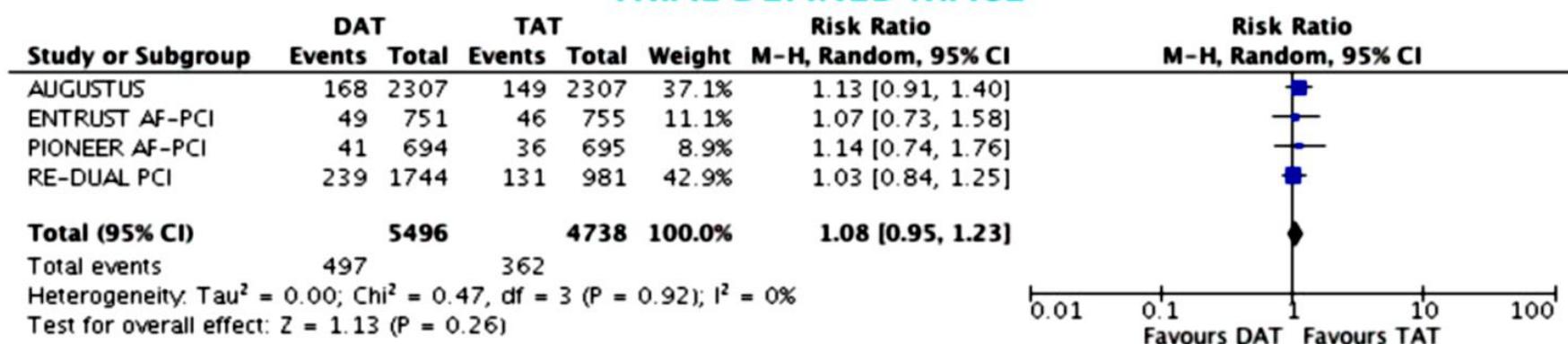
MYOCARDIAL INFARCTION



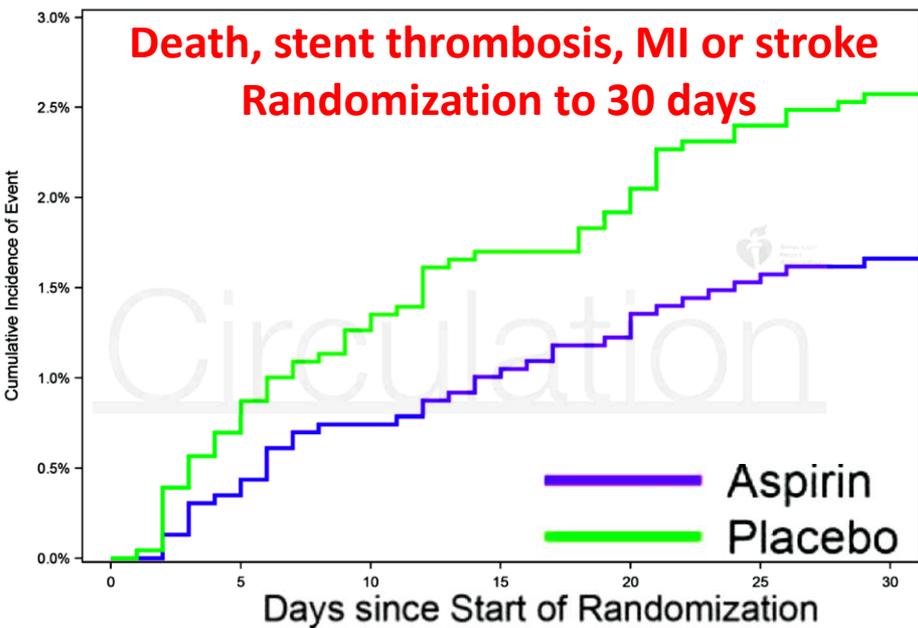
C

STENT THROMBOSIS

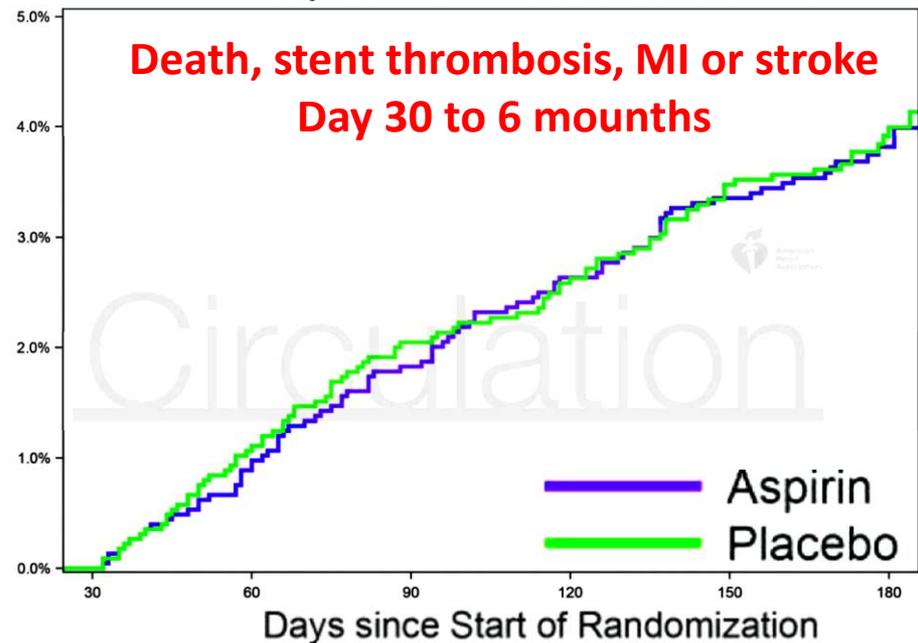
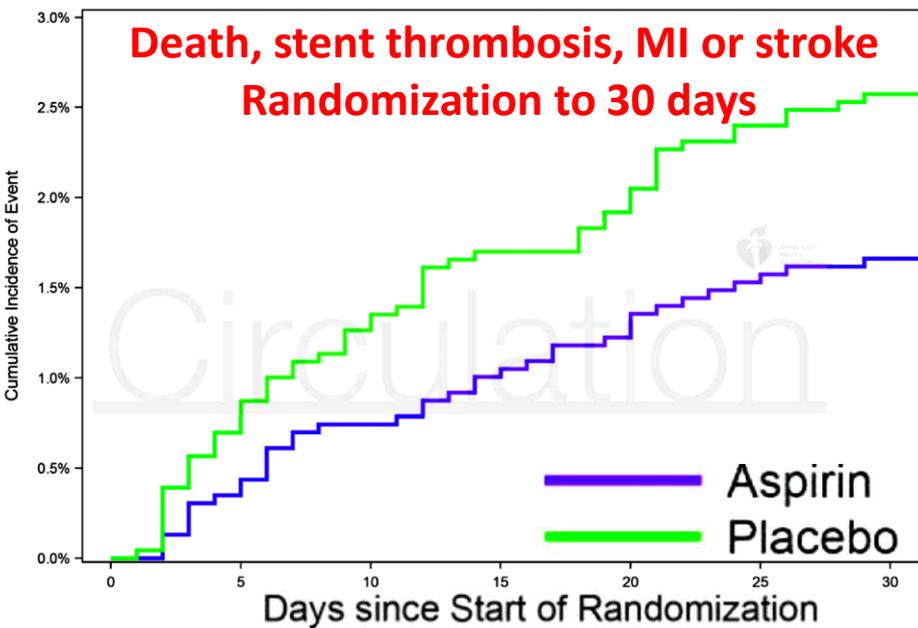


A**ALL-CAUSE DEATH****B****CARDIOVASCULAR DEATH****C****TRIAL-DEFINED MACE**

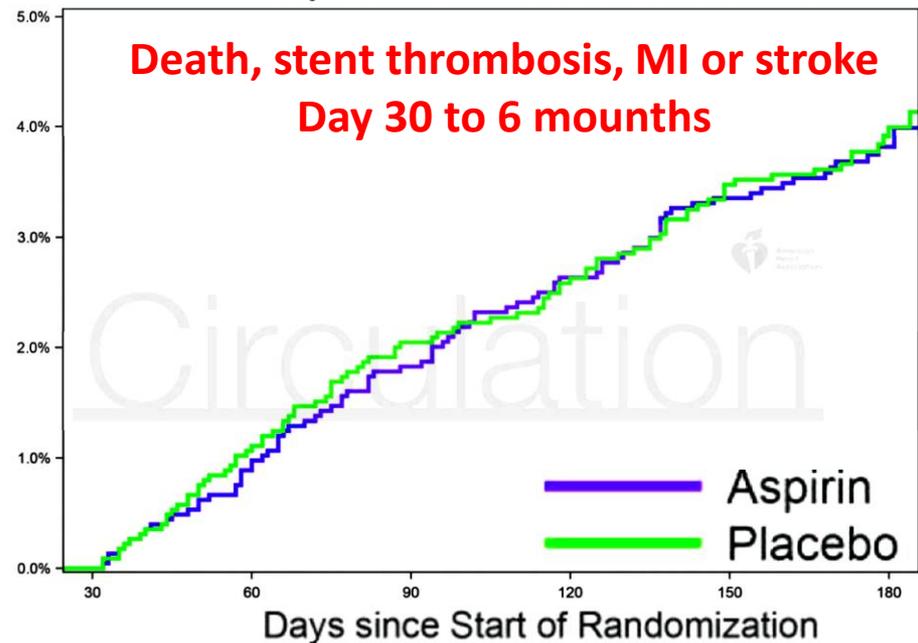
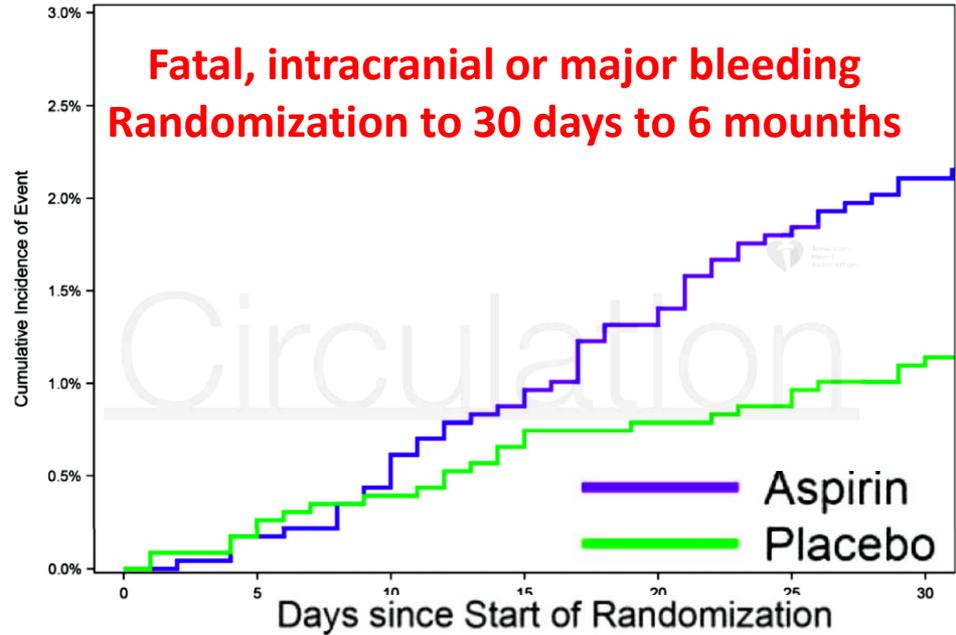
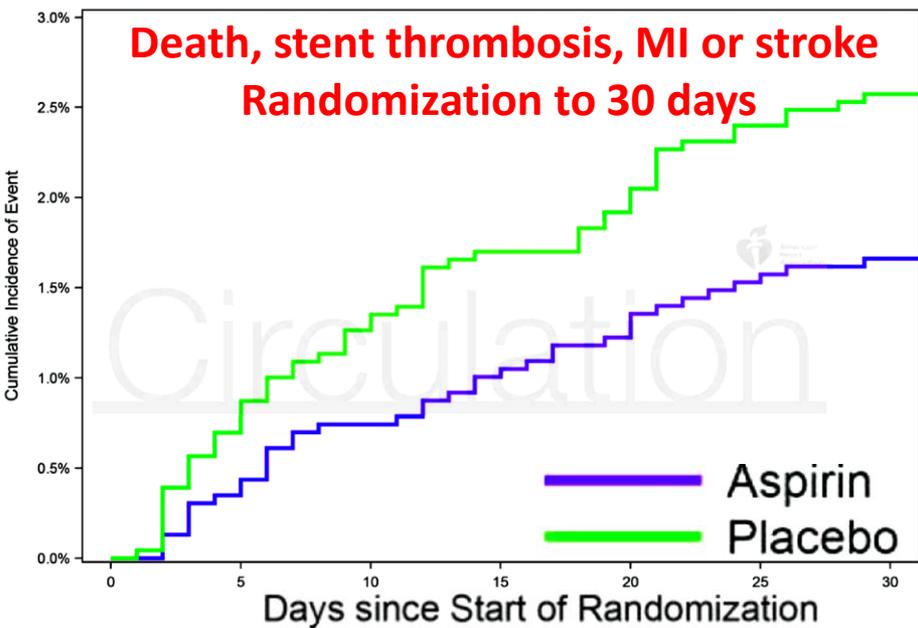
Alexander JH et al The risk/benefit tradeoff of antithrombotic therapy in patients with AF early and late after an ACS or PCI: insights from Augustus_ CIRC 2020;141:1618-27



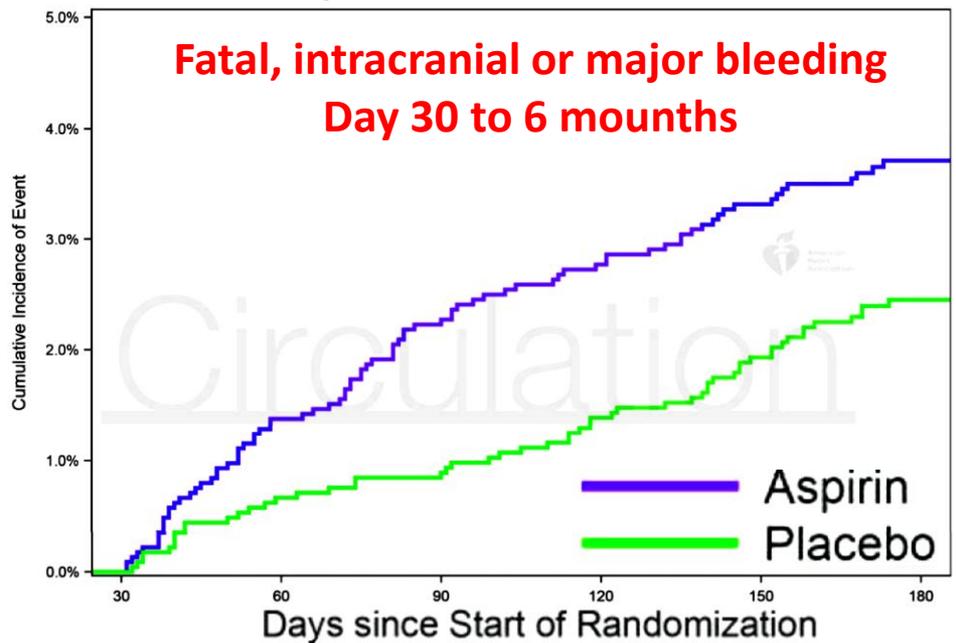
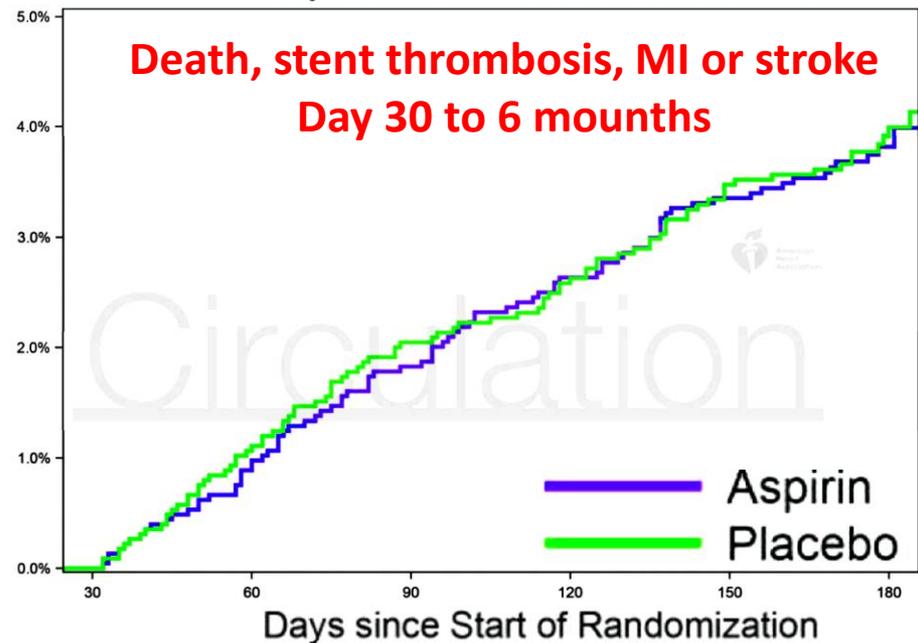
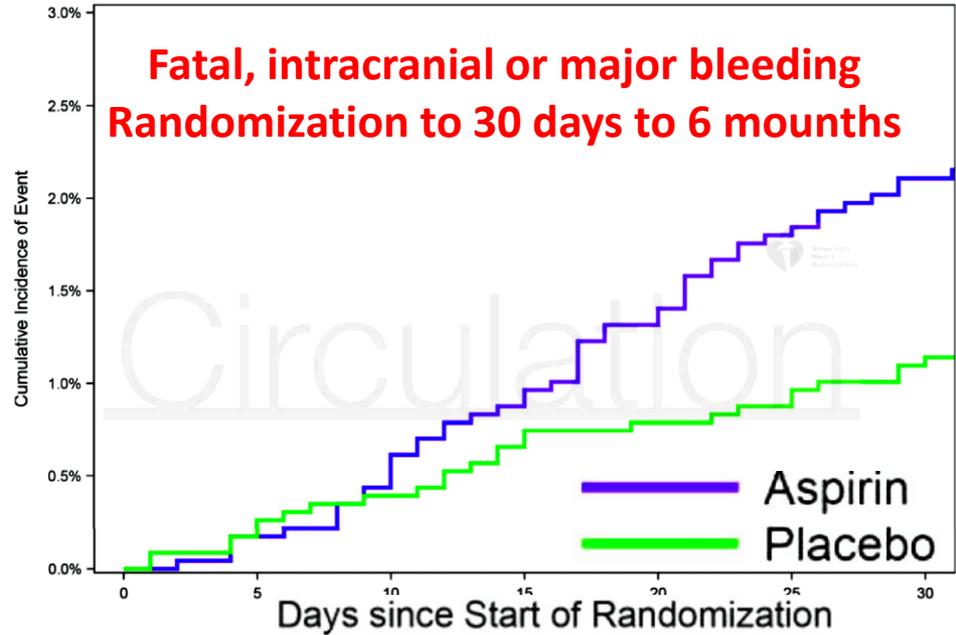
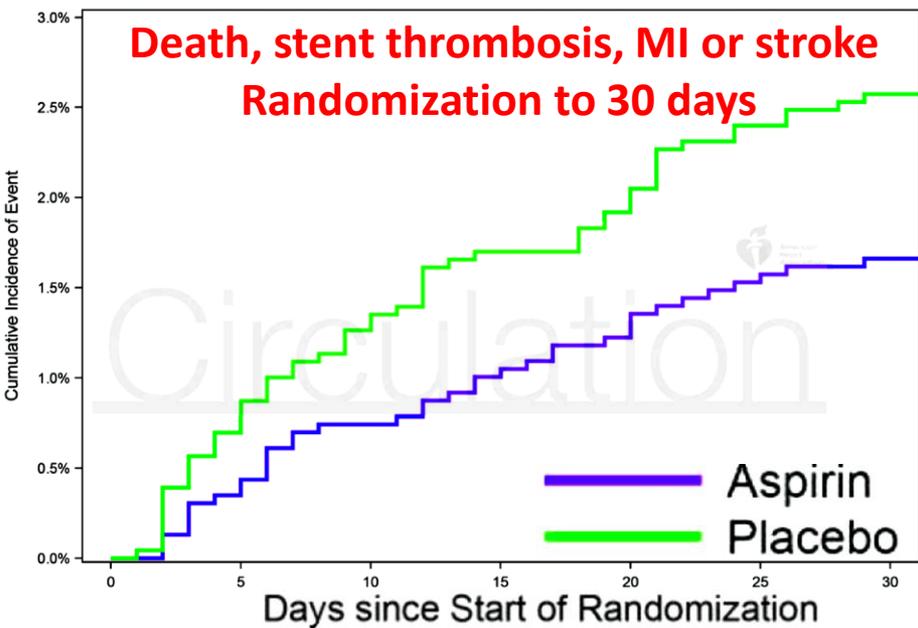
Alexander JH et al The risk/benefit tradeoff of antithrombotic therapy in patients with AF early and late after an ACS or PCI: insights from Augustus_ CIRC 2020;141:1618-27



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Alexander JH et al The risk/benefit tradeoff of antithrombotic therapy in patients with AF early and late after an ACS or PCI: insights from Augustus_ CIRC 2020;141:1618-27

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of Cardiology



8:54 / 8:54



<https://escardio--community.force.com/ESCMvProfile>

2020 ESC Guidelines for the diagnosis and management of atrial fibrillation developed in collaboration with the European Association of Cardio-Thoracic Surgery (EACTS)

The Task Force for the diagnosis and 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

Post-procedural management of AF patients with acute coronary syndrome and/or percutaneous coronary intervention

Time from treatment initiation



Default Strategy

up to 1 week
(in hospital)

Triple therapy: (N)OAC + DAPT (aspirin + P2Y₁₂ receptor inhibitor)

1 month

3 months

6 months

Double Therapy
(N)OAC + SAPT

12 months

(N)OAC alone

Post-procedural management of AF patients with acute coronary syndrome and/or percutaneous coronary intervention

Time from treatment initiation



Default Strategy

High Ischaemic Risk

up to 1 week
(in hospital)

Triple therapy: (N)OAC + DAPT (aspirin + P2Y₁₂ receptor inhibitor)

1 month

Triple Therapy

3 months

Double Therapy
(N)OAC + SAPT

Double Therapy
(N)OAC + SAPT

6 months

12 months

(N)OAC alone

Post-procedural management of AF patients with acute coronary syndrome and/or percutaneous coronary intervention

Time from treatment initiation



Default Strategy

High Ischaemic Risk

High Bleeding Risk

up to 1 week
(in hospital)

Triple therapy: (N)OAC + DAPT (aspirin + P2Y₁₂ receptor inhibitor)

1 month

Triple Therapy

Double Therapy
(N)OAC + SAPT

3 months

Double Therapy
(N)OAC + SAPT

Double Therapy
(N)OAC + SAPT

6 months

(N)OAC alone

12 months

(N)OAC alone

Conclusioni

- ✓ Non sono infrequenti pazienti con indicazione a terapia anticoagulante orale e che richiedano una duplice terapia antiaggregante per PCI in elezione o ACS, per ridurre occlusione dello stent e reinfarti
- ✓ L'impiego dei NOACs è preferibile al warfarin per il favorevole profilo di sicurezza ed efficacia
- ✓ Sono stati pubblicati vari lavori che impiegano solo una duplice terapia antitrombotica - NOACs + inibitore recettori piastrinici P2Y₁₂ (clopidogrel) - subito dopo la procedura o l'evento ischemico cardiaco
- ✓ Le recentissime LG ESC sulla FA hanno cambiato le indicazioni, riducendo il tempo di triplice terapia a 1 settimana e in certi casi fino al massimo di 1 mese, per continuare poi con la duplice terapia fino a 1 anno
- ✓ Oltre l'anno nella maggioranza dei casi è indicato l'uso del solo anticoagulante orale





Post-procedural management of AF patients with acute coronary syndrome and/or percutaneous coronary intervention

THROMBOTIC RISK FACTORS

- Diabetes mellitus requiring therapy
- Prior ACS/recurrent myocardial infarction
- Multivessel CAD
- Concomitant PAD
- Premature CAD (occurring at age of <45 y) or accelerated CAD (new lesion within 2 years)
- CKD (eGFR <60 mL/min)
- Clinical presentation (ACS)
- Multivessel stenting
- Complex revascularisation (left main stenting, bifurcation lesion stenting, chronic total occlusion intervention, last patent vessel stenting)
- Prior stent thrombosis on antiplatelet treatment
- Procedural factors (stent expansion, residual dissection, stent length, etc.)

BLEEDING RISK FACTORS

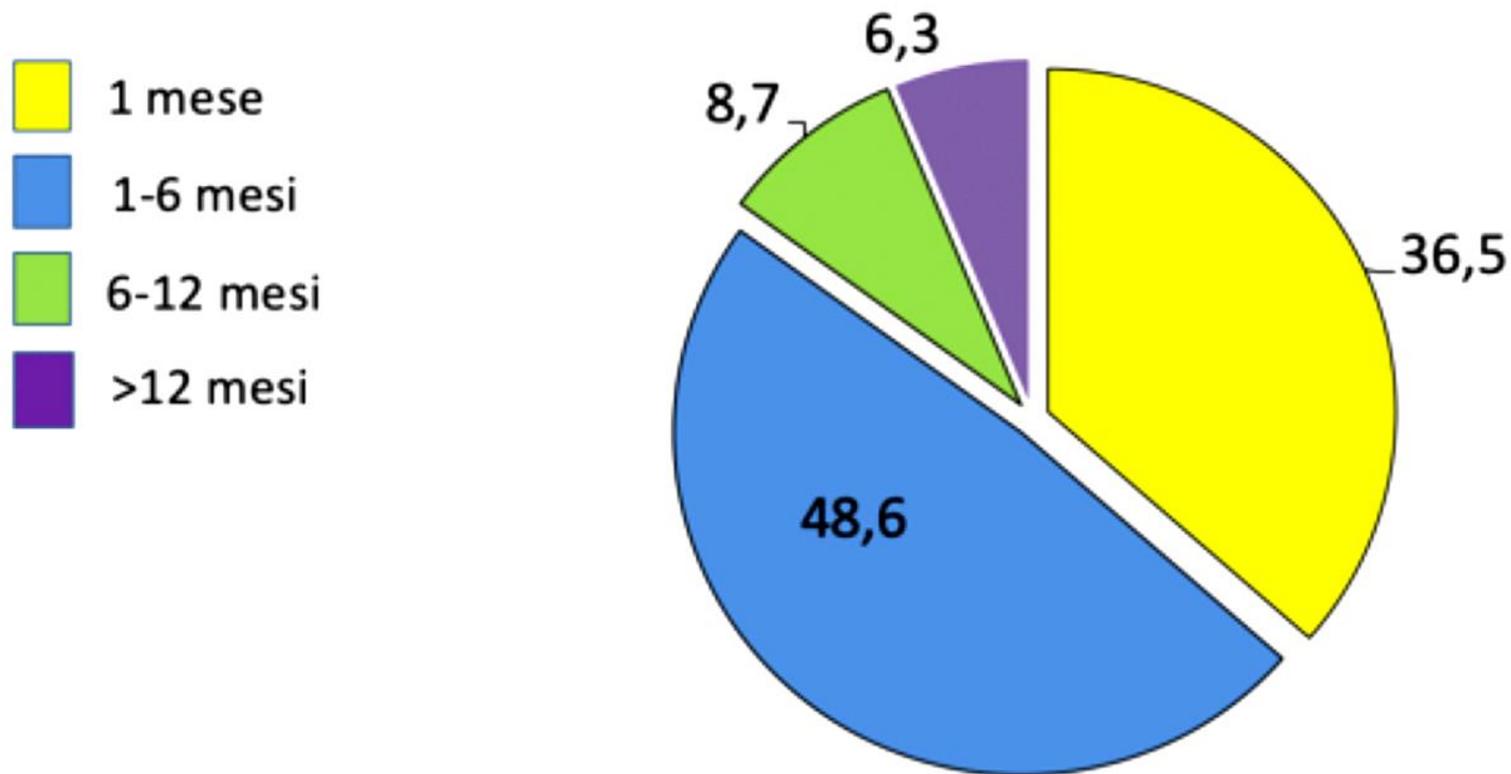
- Hypertension
- Abnormal renal or liver function
- Stroke or ICH history
- Bleeding history or bleeding diathesis (e.g., anaemia with haemoglobin <110 g/L)
- Labile INR (if on VKA)
- Elderly (>65 years)
- Drugs (concomitant OAC and antiplatelet therapy, NSAIDs), excessive alcohol consumption

STRATEGIES TO REDUCE BLEEDING ASSOCIATED WITH PCI

- Radial artery access
- PPIs in patients taking DAPT who are at increased risk of bleeding (e.g., the elderly, dyspepsia, gastro-oesophageal reflux disease, Helicobacter pylori infection, chronic alcohol use)
- Non-administration of unfractionated heparin in patients on VKA with INR >2.5
- Pre-treatment with aspirin only, add a P2Y₁₂ inhibitor when coronary anatomy is known or if STEMI
- GP IIb/IIIa inhibitors only for bailout or periprocedural complications
- Shorter duration of combined antithrombotic therapy

MATADOR-PCI

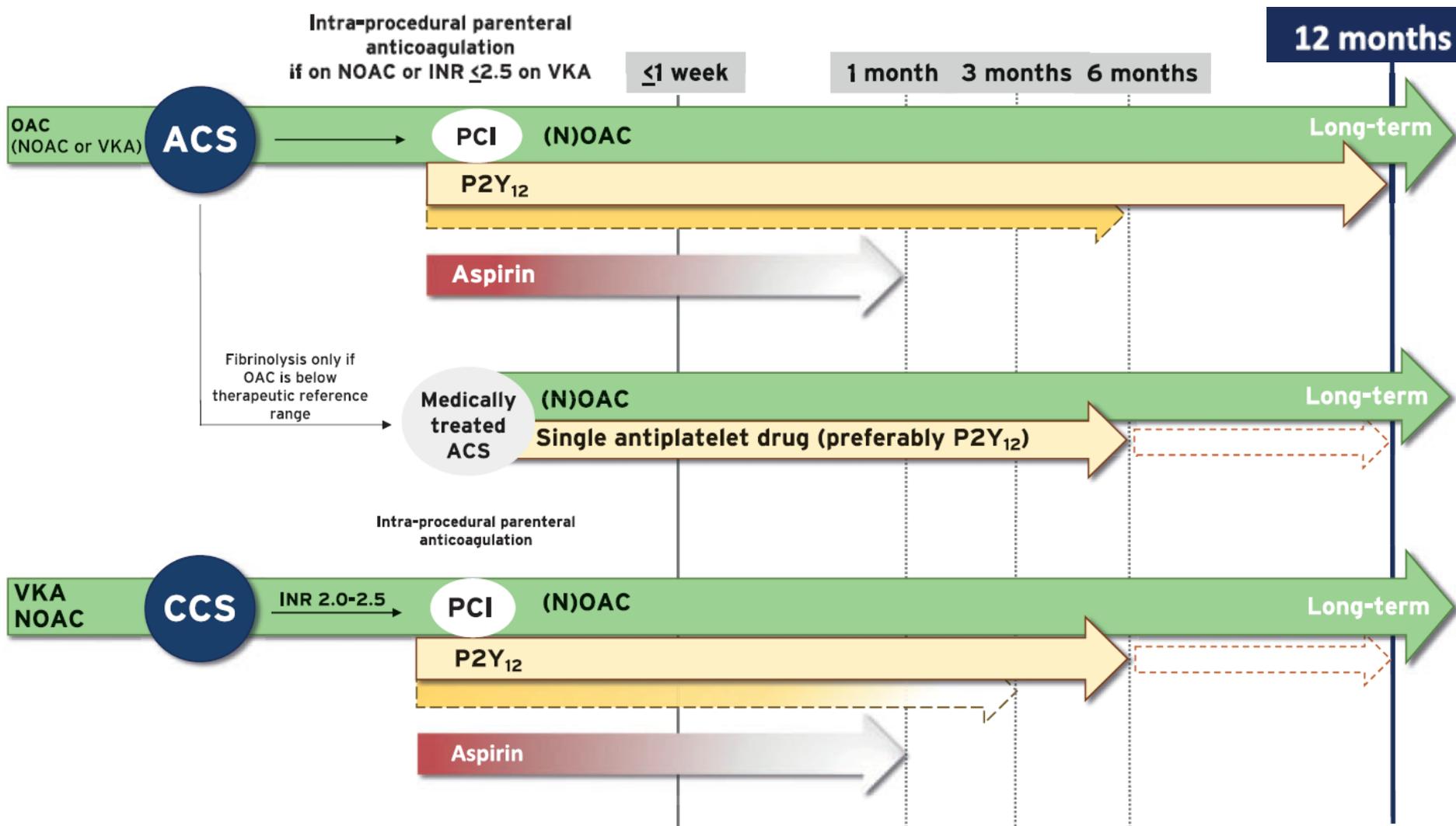
Studio prospettico osservazionale di ANMCO/Fondazione per il Tuo Cuore-ONLUS sulle strategie antitrombotiche attualmente impiegate nei pz affetti con FA e SCA trattati con PCI + stent



De Luca L et al. Data from the Nationwide MATADOR-PCI Registry.

Eur Heart J Cardiovasc Pharmacother 2020 Jul 11;pvaa088. doi: 10.1093/ehjcvp/pvaa088

Post-procedural management of AF patients with acute coronary syndrome and/or percutaneous coronary intervention

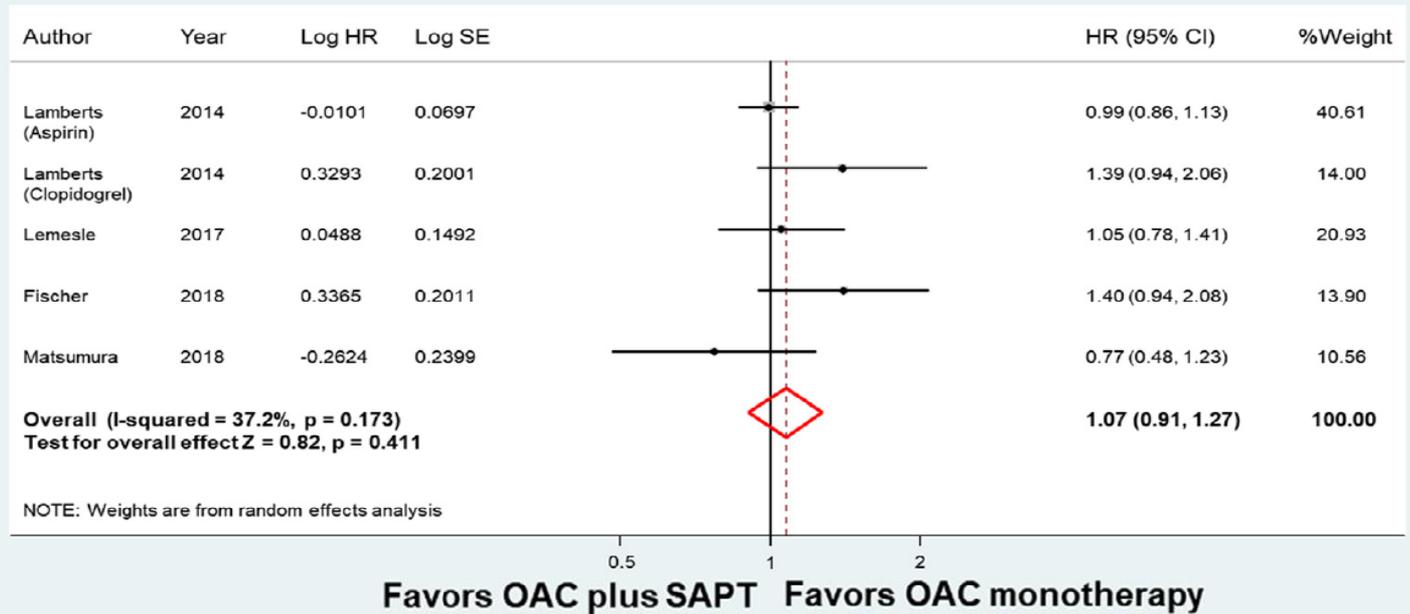


**Meta-Analysis of Oral Anticoagulant Monotherapy as
an Antithrombotic Strategy in Patients With Stable
Coronary Artery Disease and Nonvalvular Atrial
Fibrillation**

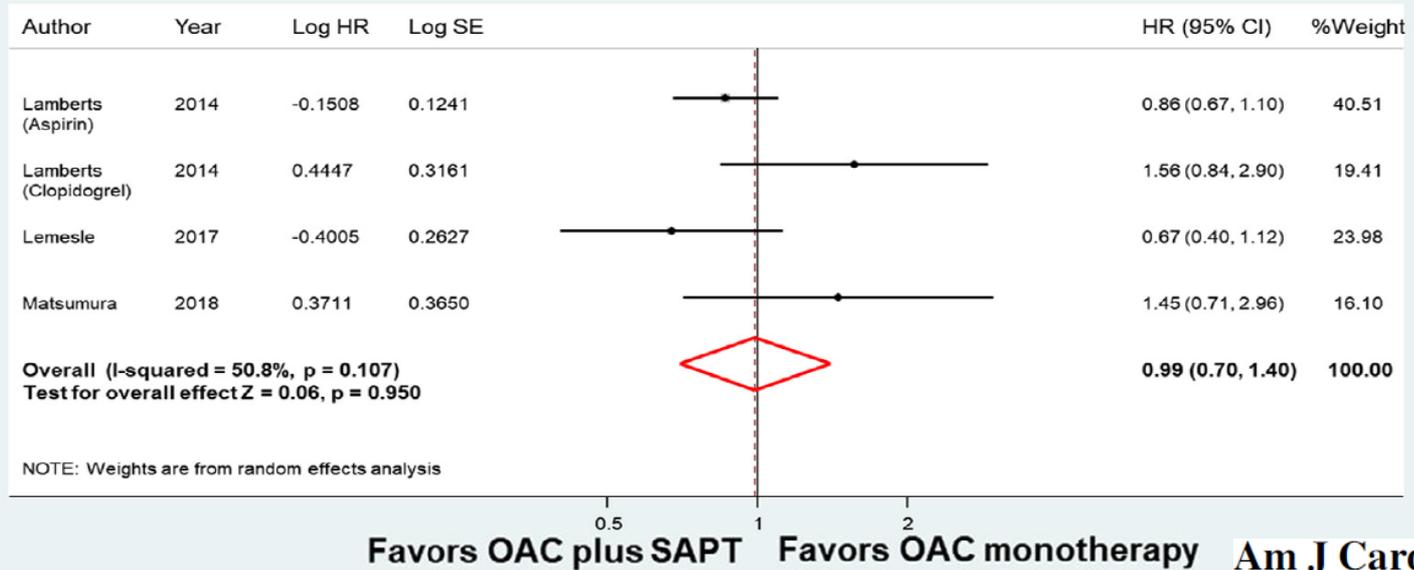
So-Ryoung Lee, MD^{a,1}, Tae-Min Rhee^{a,1}, Do-Yoon Kang, MD^b, Eue-Keun Choi, MD, PhD^a,
Seil Oh, MD, PhD^{a,2,*}, and Gregory Y.H. Lip, MD^{c,d,2,**}

Am J Cardiol 2019;124:879–885

(A) All-cause death



(B) Stroke



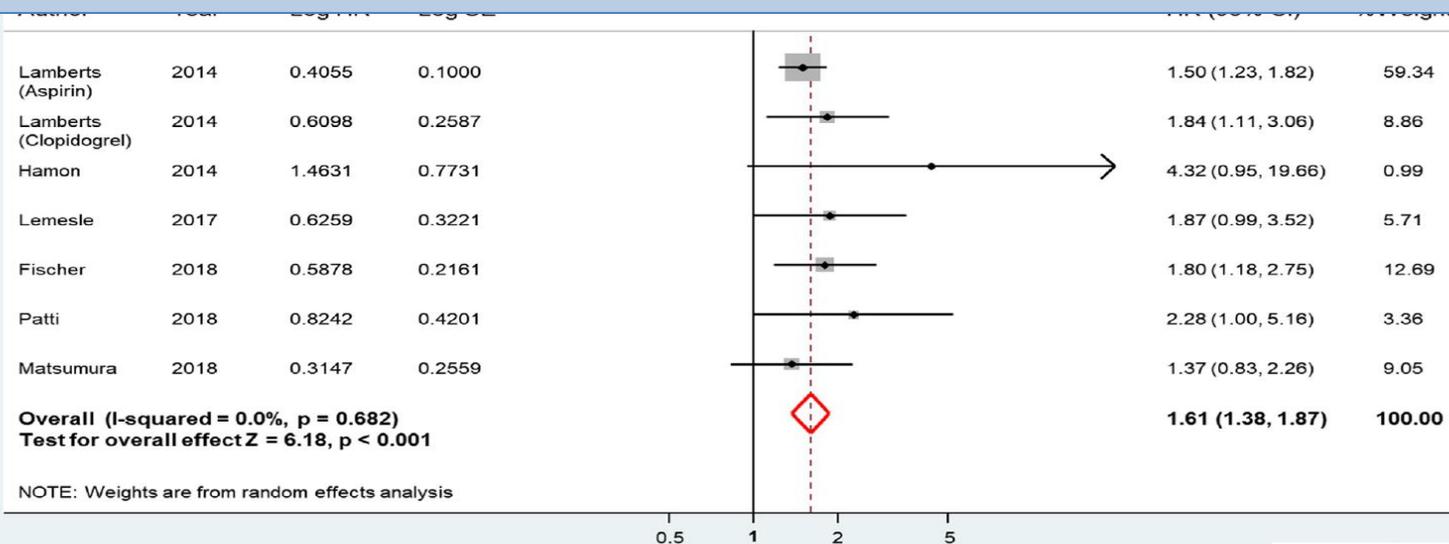
(A) Major adverse cardiovascular events

Author	Year	Log HR	Log SE	HR (95% CI)	%Weight
Lamberts	2014	0.1133	0.0904	1.12 (0.94, 1.34)	31.81

Messaggio di questa metanalisi

In pz con FA e CAD stabile a oltre 1 anno dall'evento acuto e/o PCI:

- OAC in monoterapia ha simile efficacia rispetto a OAC + 1 farmaco antiaggregante nella riduzione degli eventi cv mortali e non
- OAC in monoterapia è associata a più basso rischio di emorragie



Favors OAC plus SAPT Favors OAC monotherapy