



# Nuevas evidencias en antiagregación en cardiopatía isquémica



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European Heart Journal Advance Access published January 13, 2015



European Heart Journal  
doi:10.1093/eurheartj/ehu505

**CLINICAL RESEARCH**

Acute Coronary Syndrome

# **Cardiovascular risk in post-myocardial infarction patients: nationwide real world data demonstrate the importance of a long-term perspective**

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Received 18 July 2014; revised 4 December 2014; accepted 16 December 2014



108 315 patients admitted to hospital for MI between  
July 1 2006 and June 30 2011

11 061 (10.2%) – death within 7 days of discharge  
(‘Death from index MI’)

97 254 patients survived index MI  
(‘MI population’)



# EN EL 1º AÑO

108 315 patients admitted to hospital for MI between July 1 2006 and June 30 2011

11 061 (10.2%) – death within 7 days of discharge  
(‘Death from index MI’)

97 254 patients survived index MI  
(‘MI population’)

During the first 365 days after index MI:

- 1098 (1.1%) – death within 30 days
- 6583 (6.8%) – death within 150 days
- 11 983 (12.3%) – death within 365 days
  - 7923 (66.1%) – CV death
- 9729 (10.0%) – recurrent MI
- 2353 (2.4%) – stroke



76 687 patients survived for 12 months  
without a subsequent MI or stroke  
(‘Post-MI survivor population’)



# A PARTIR DEL 1º AÑO

76 687 patients survived for 12 months  
without a subsequent MI or stroke  
(‘Post-MI survivor population’)

8321(10.9%) patients experienced an event  
during the next 12 months:

- 5455 (7.1%) – death
  - 3104 (56.9%) – CV death
- 2760 (3.6%) – recurrent MI
- 1083 (1.4%) – stroke

13 567(17.7%) patients experienced an event  
during the next 24 months:

- 9979 (13.0%) – death
  - 5343(53.5%) – CV death
- 4319 (5.6%) – recurrent MI
- 1755 (2.3%) – stroke

# APOLO: 5 estudios individuales en 4 países que reunieron >150.000 pacientes



	USA	UK	Sweden	France	
Countries					
Databases	<b>Medicare</b>	<b>HealthCore</b>	<b>CPRD MINAP HES</b>	<b>National registries</b>	
Details	<ul style="list-style-type: none"> <li>Demographics and health insurance claims</li> <li>Linked to death registry</li> <li>Age <math>\geq 65</math> years</li> <li>n=53,909<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>Demographics and health insurance claims</li> <li>Commercially insured</li> <li>50–64 years<sup>2</sup></li> <li>n=13,492<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>Three linked datasets</li> <li>Longitudinal data</li> <li>Primary and secondary care</li> <li>Disease and death registry</li> <li>n=7238<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>Nationwide</li> <li>Longitudinal data</li> <li>Hospital discharge data linked to prescribed data register and death registry</li> <li>n=77,976<sup>1</sup></li> <li>n=76,687<sup>3*</sup></li> </ul>	<ul style="list-style-type: none"> <li>Sample of national healthcare insurance data</li> <li>Hospital discharge data linked to death registry</li> <li>n=1757<sup>1</sup></li> <li>n=1764<sup>4*</sup></li> </ul>
Acronyms			<b>CALIBER</b>	<b>HELICON</b>	<b>HORUS</b>

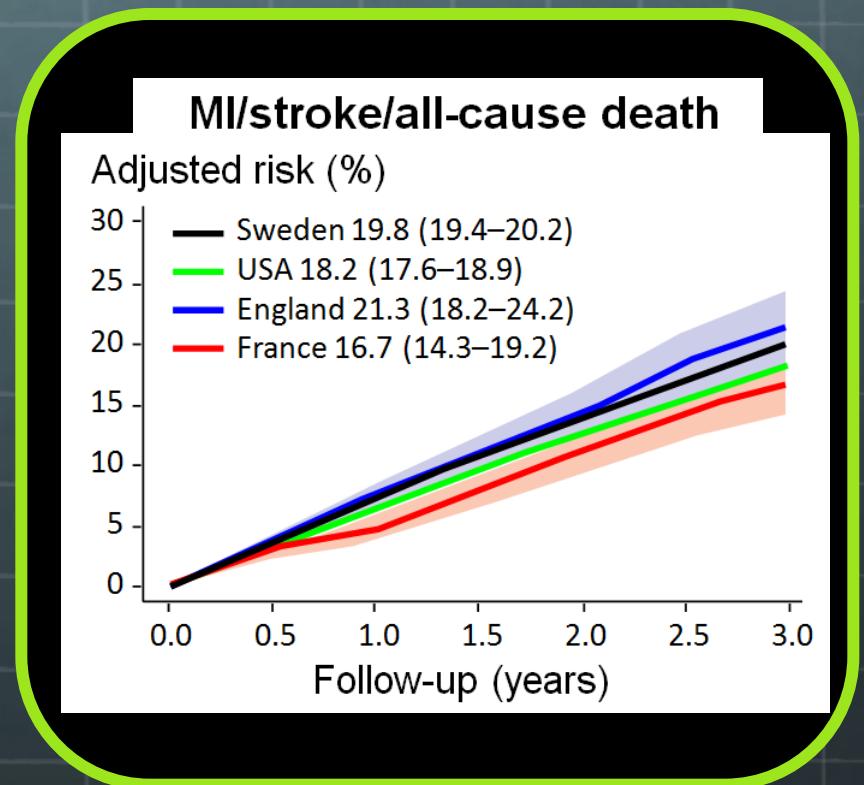
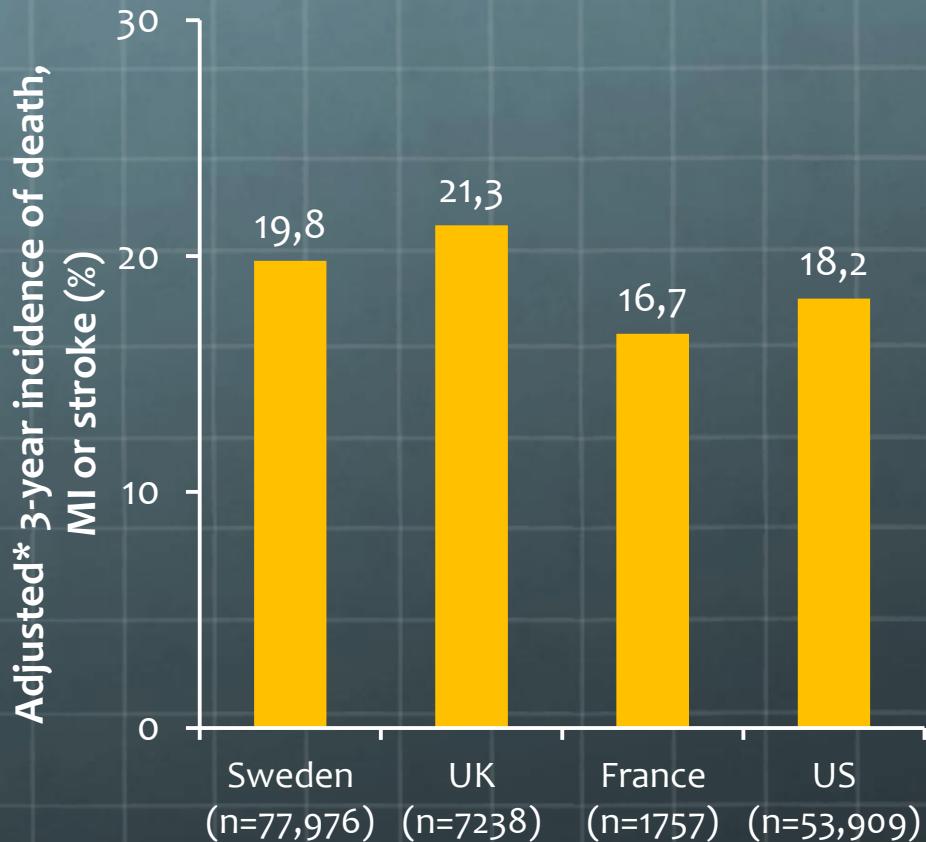
<sup>1</sup>Rapsomaniki E, et al. ESC Late Breaking Registry abstract 2014: In press; <sup>2</sup> DeVore S, et al. ISPOR poster 2014;

<sup>3</sup>Jernberg T, et al. ESC poster 2014: In press; <sup>4</sup>Blin P, et al. ESC poster 2014: In press.

\*This differs from the N in the 4-country analysis (Rapsomaniki E, et al) due to harmonisation of the data

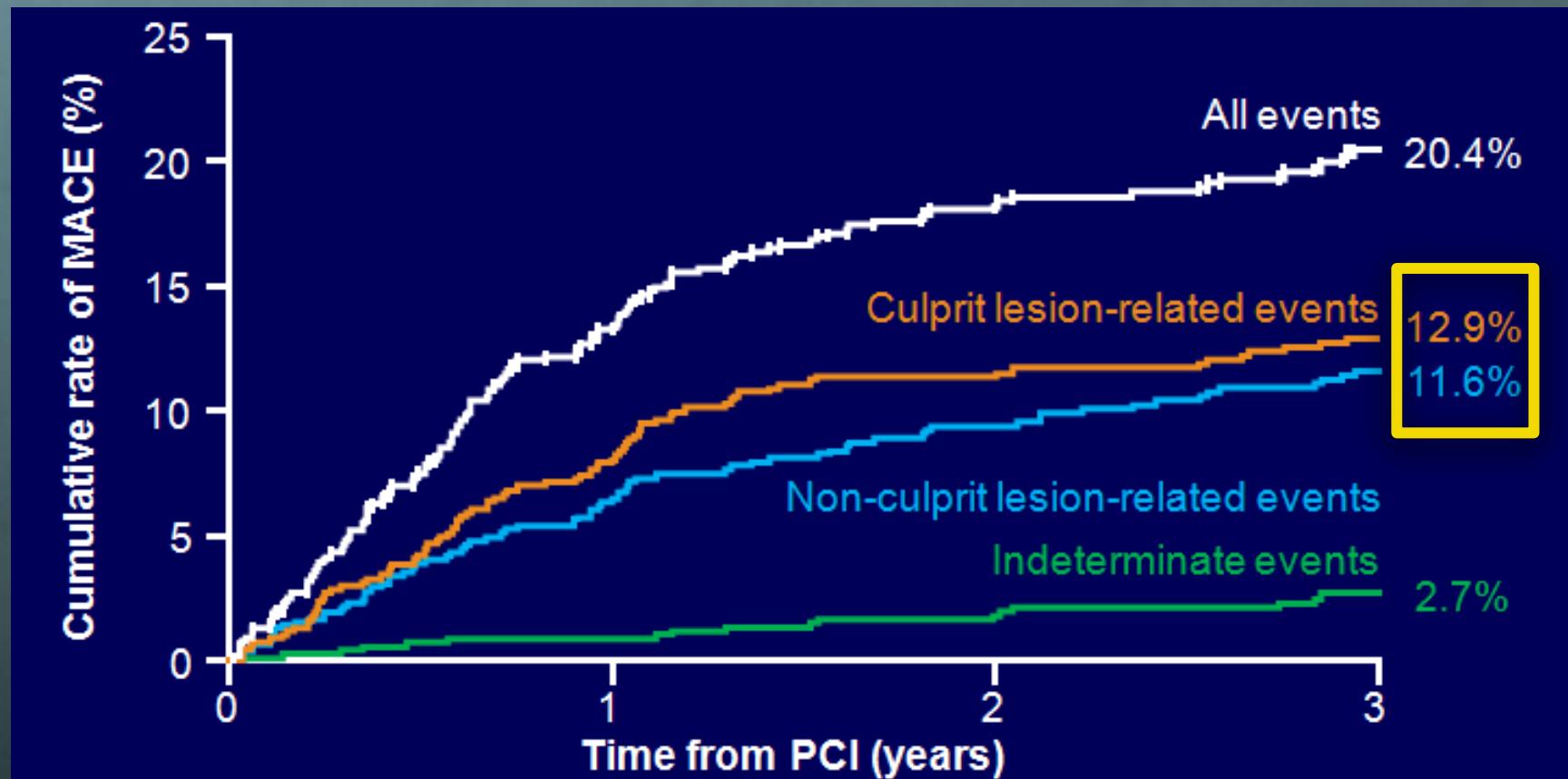


Uno de cada cinco de los pacientes libres de eventos en el primer año tras un infarto, sufrirán en los siguientes tres años un ictus, muerte o infarto



\*Adjusted for differences in study populations; MI, myocardial infarction. Shaded areas / figures in brackets [95%CI]  
Rapsomaniki E, et al. ESC Late Breaking Registry presentation 2014: In press.

# Los eventos recurrentes en los pacientes con SCA pueden ser consecuencia de nuevas placas ATC o de las lesiones culpables iniciales

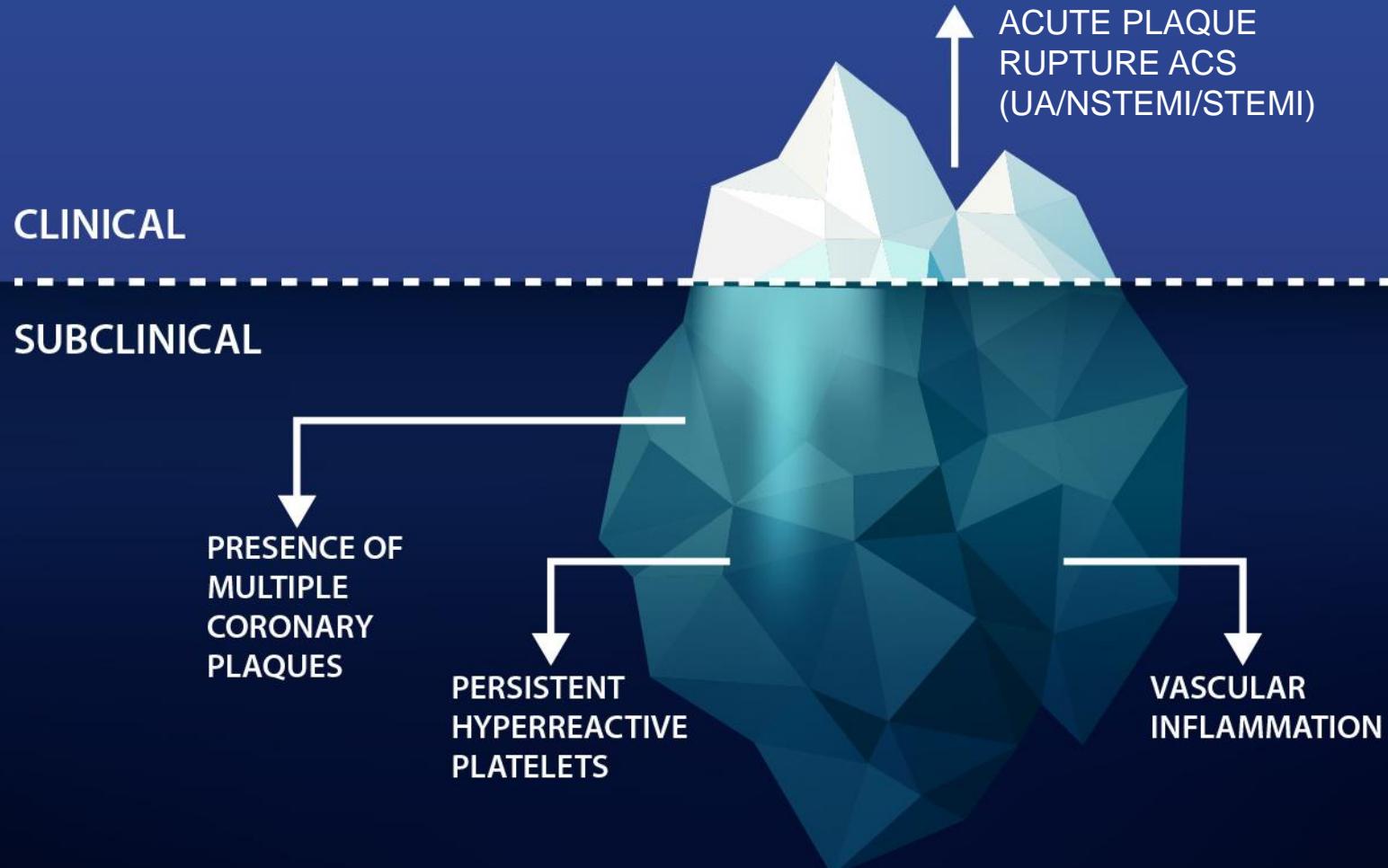


- PROSPECT study: Prospective study of the natural history of atherosclerosis over 3 years in patients with ACS who underwent PCI (n=697)

ACS, acute coronary syndromes; MACE, major adverse cardiac events; PCI, percutaneous coronary intervention; PROSPECT, Providing Regional Observations to Study Predictors of Events in the Coronary Tree.  
Stone GW, et al. *N Engl J Med* 2011;364:226–235.



# El SCA es la punta del “icerberg aterotrombótico”





CLINICAL

ACUTE PLAQUE  
RUPTURE ACS  
(UA/NSTEMI/STEMI)

ATROSCLEROSI  
S

SCA

ATROSCLEROSI  
S

## CARDIOPATÍA ISQUÉMICA

ICP

PRESENCE OF  
MULTIPLE  
CORONARY  
PLAQUES

ICP

PERSISTENT  
HYPERREACTIVE  
PLATELETS

ICP

VASCULAR  
INFLAMMATION

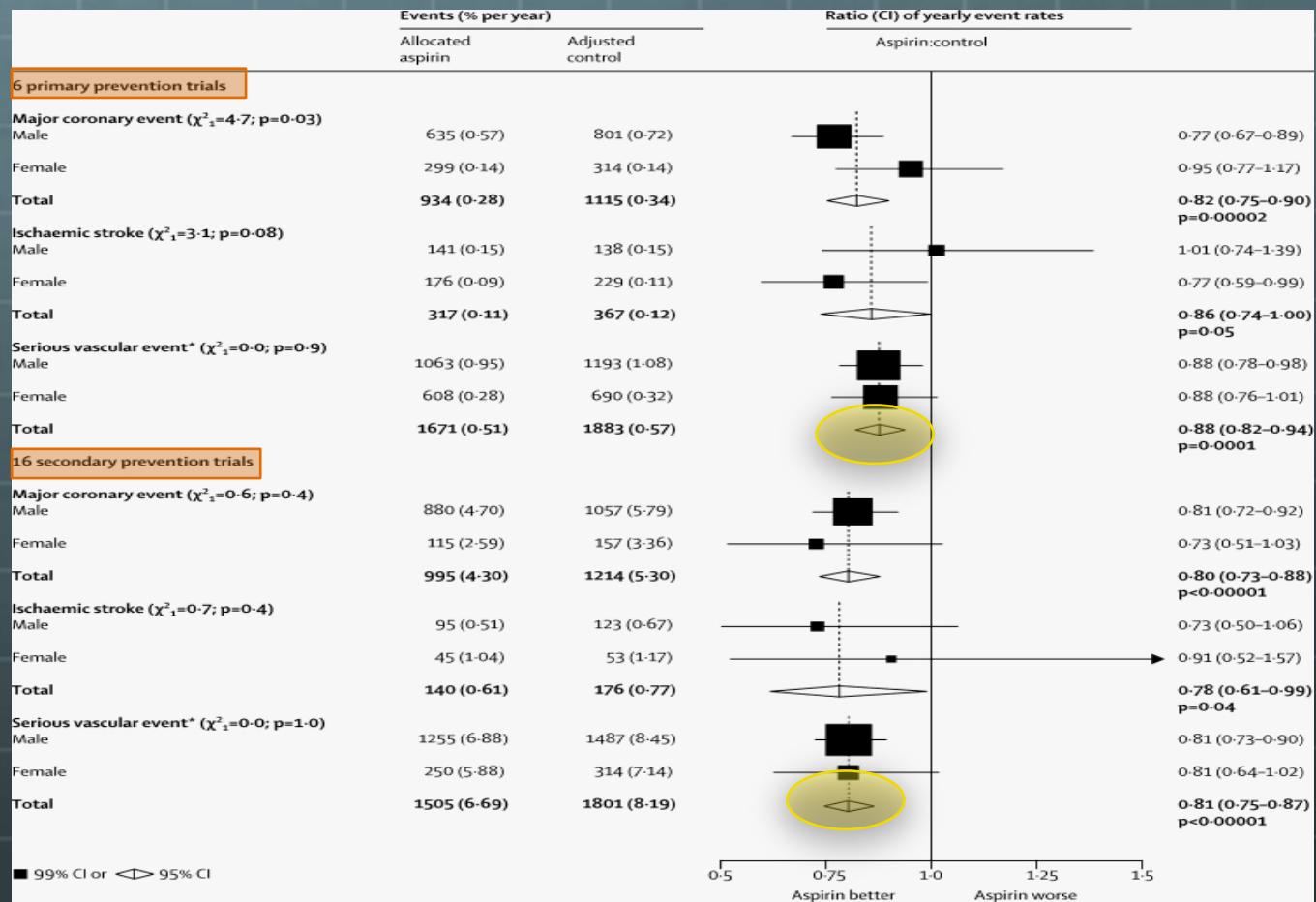
...



# RIESGO RESIDUAL



AAS

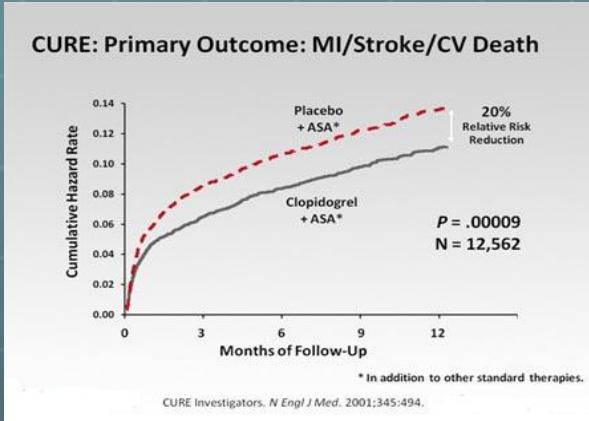


Antithrombotic Trialists' (ATT) Collaboration. Aspirin in the primary and secondary prevention of vascular disease: collaborative meta-analysis of individual participant data from randomised trials. Lancet 2009;373:1849-60.

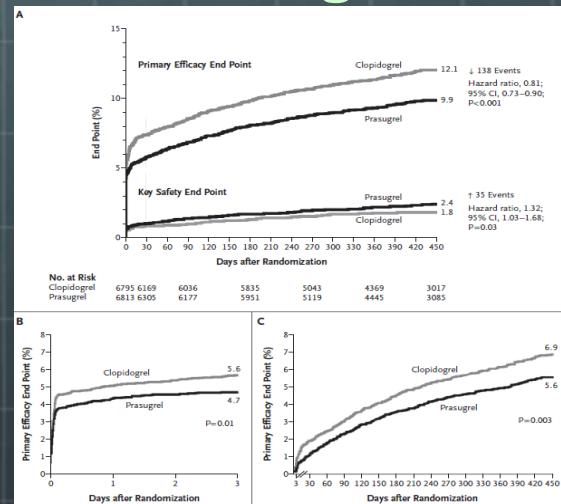
# En el primer año tras un SCA...



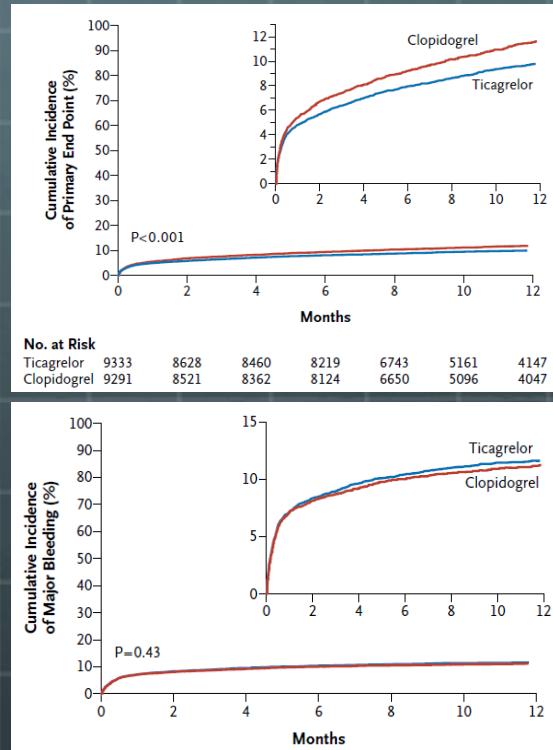
## CURE Clopidogrel



## TRITON TIMI 38 Prasugrel

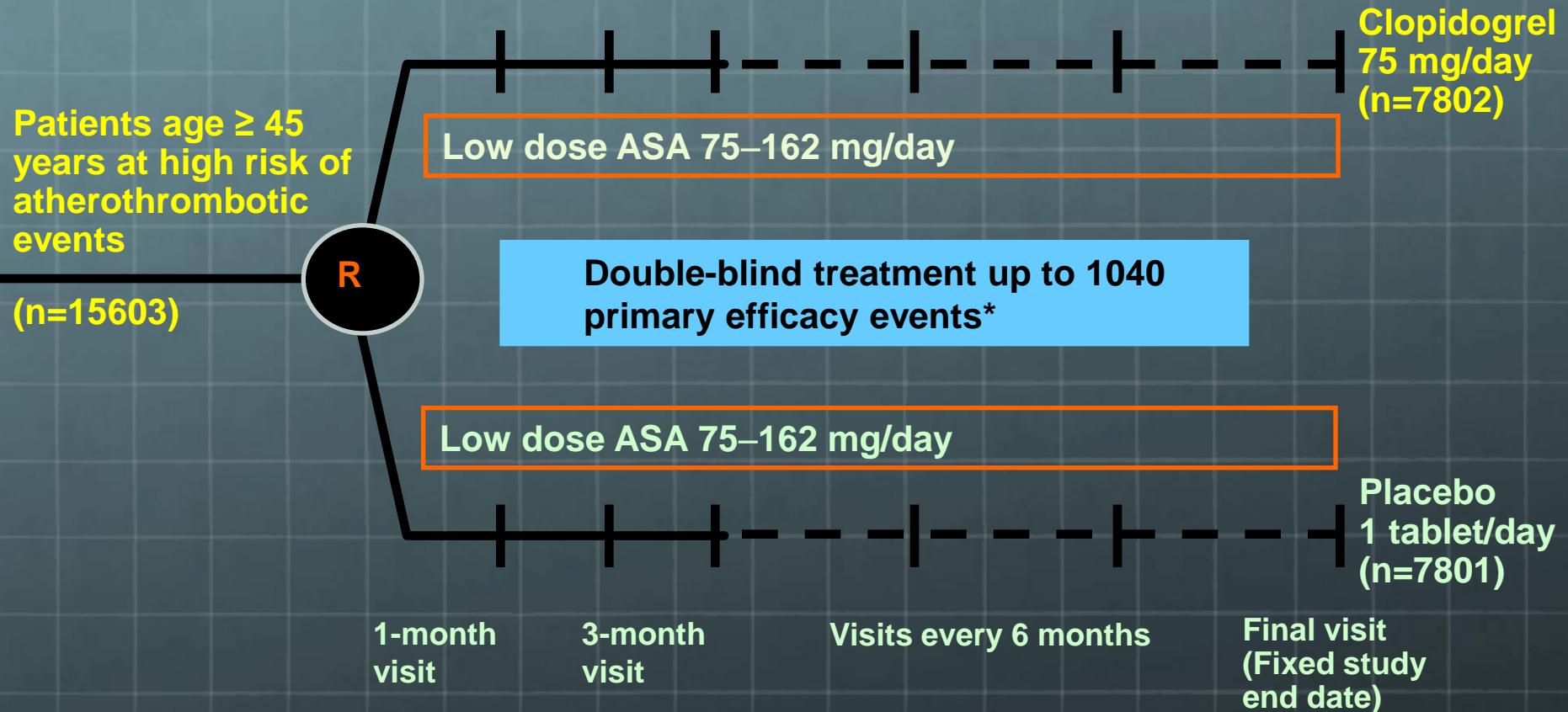


## PLATO Ticagrelor



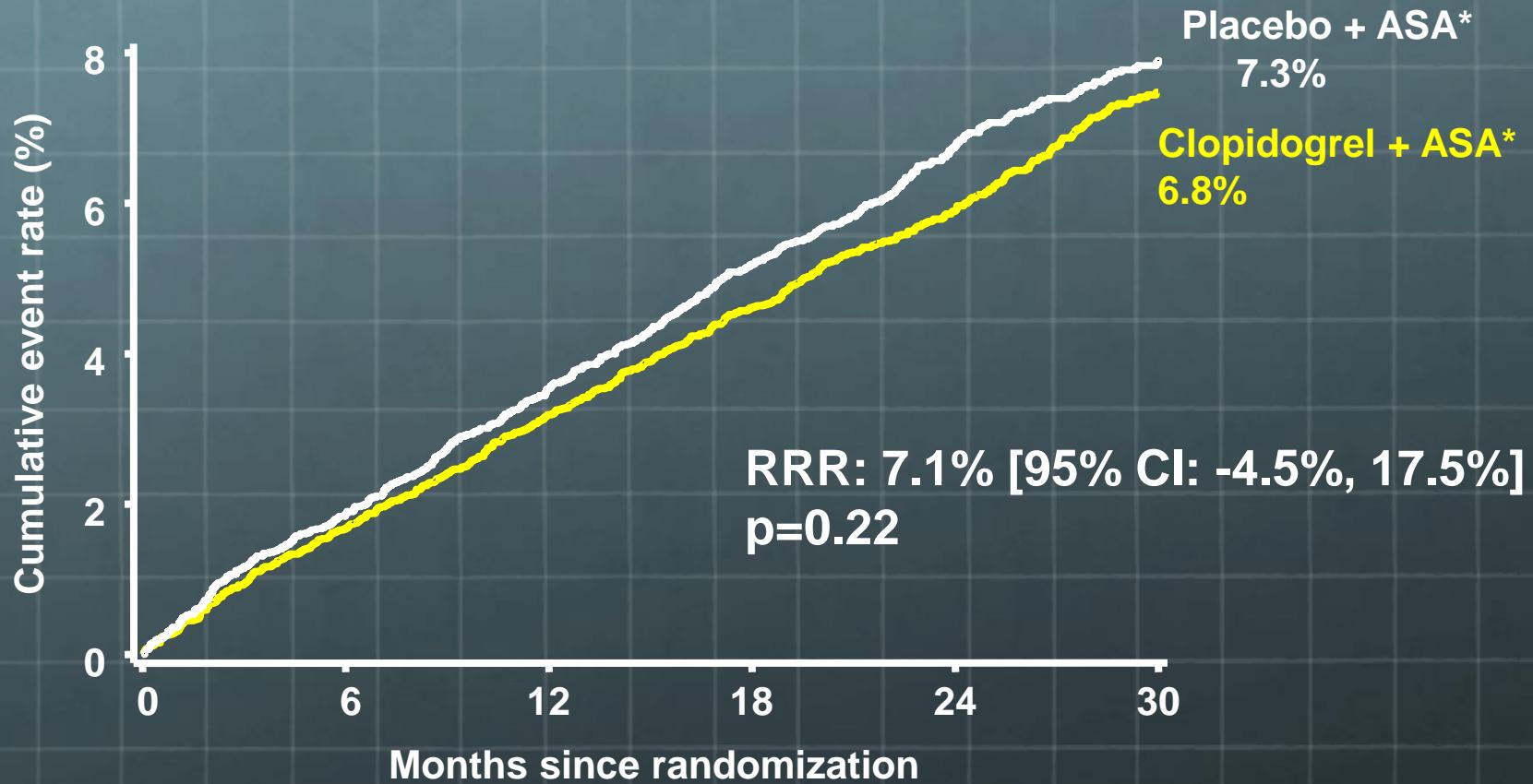


# CHARISMA



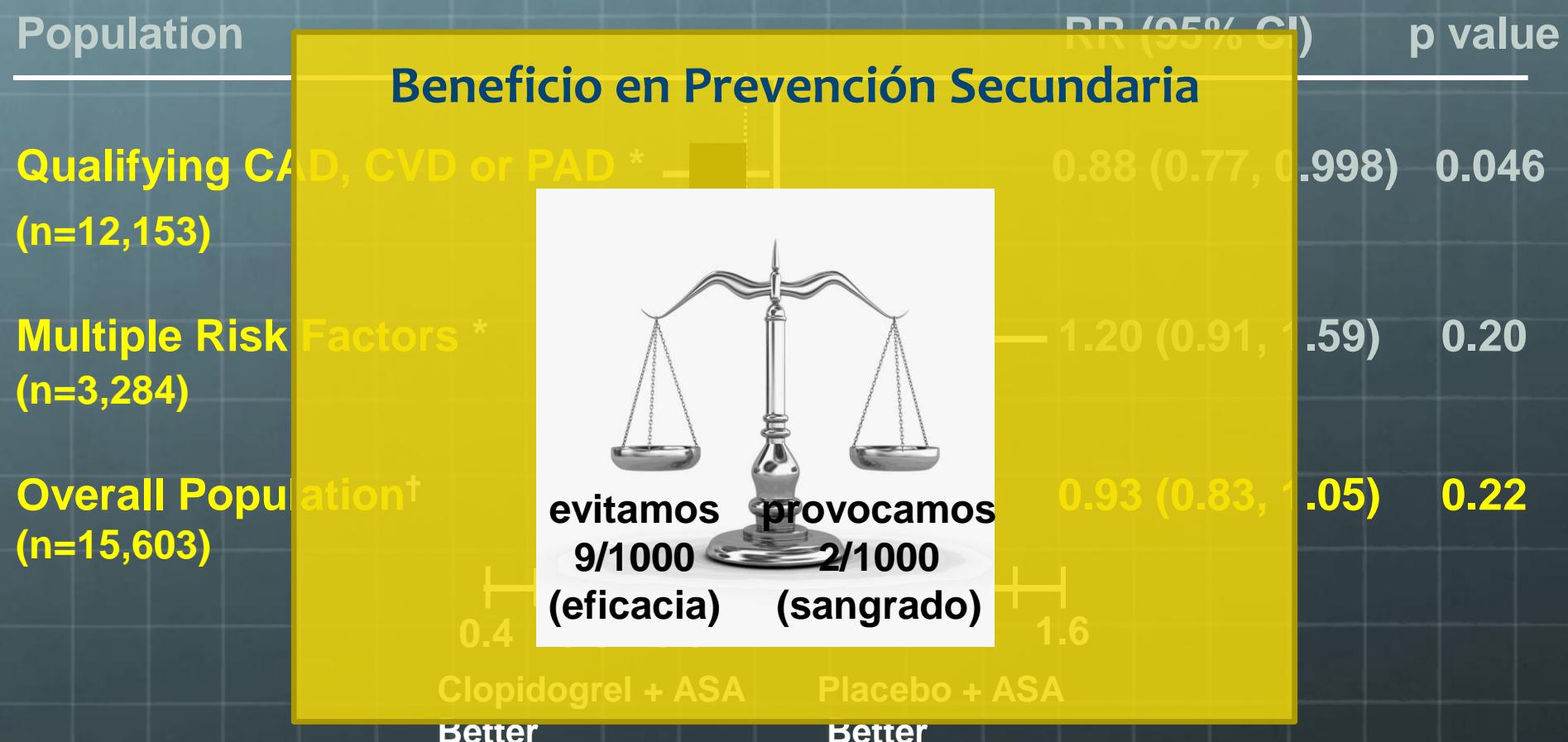
\* MI (fatal or non-fatal), stroke (fatal or non-fatal), or cardiovascular death; event-driven trial Bhatt DL et al. Am Heart J 2004; 148: 263–268.

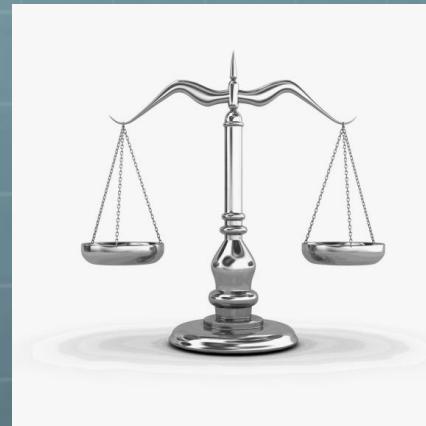
# Población general: Ictus/IAM/Muerte



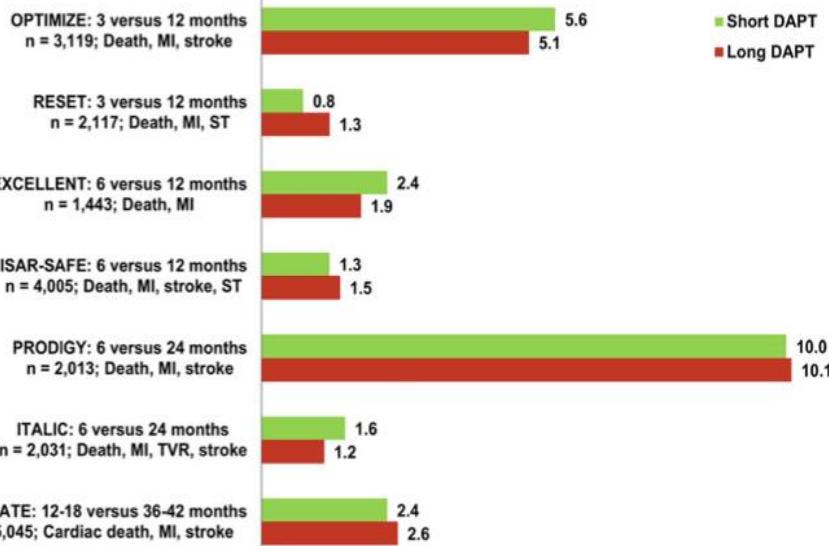


# Por subgrupos: Primary Efficacy Results

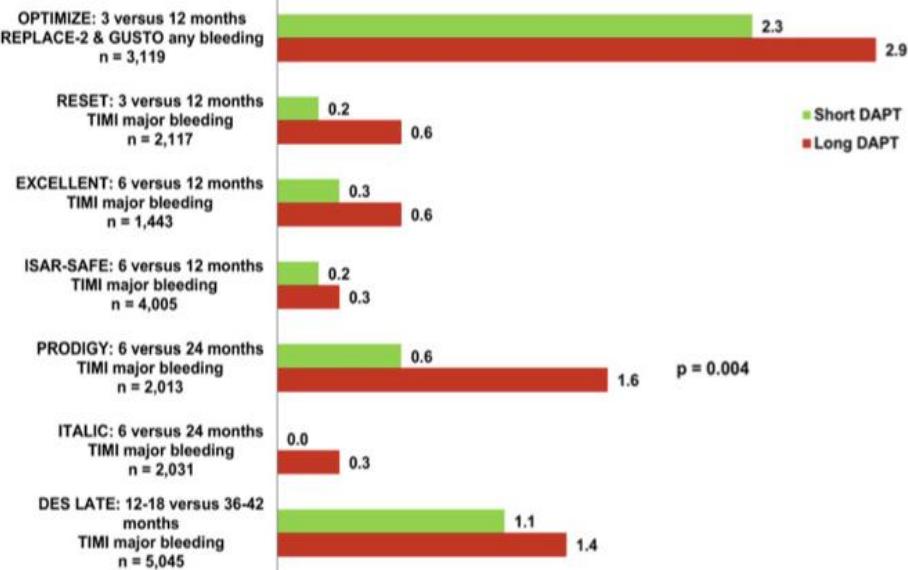




### MACCE and DAPT Duration



### Bleeding and DAPT Duration



**Duration of dual antiplatelet therapy after coronary artery stenting: where is the sweet spot between ischaemia and bleeding?**

Ronald K. Binder and Thomas F. Lüscher\*

European Heart Journal Advance Access published April 2, 2015



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

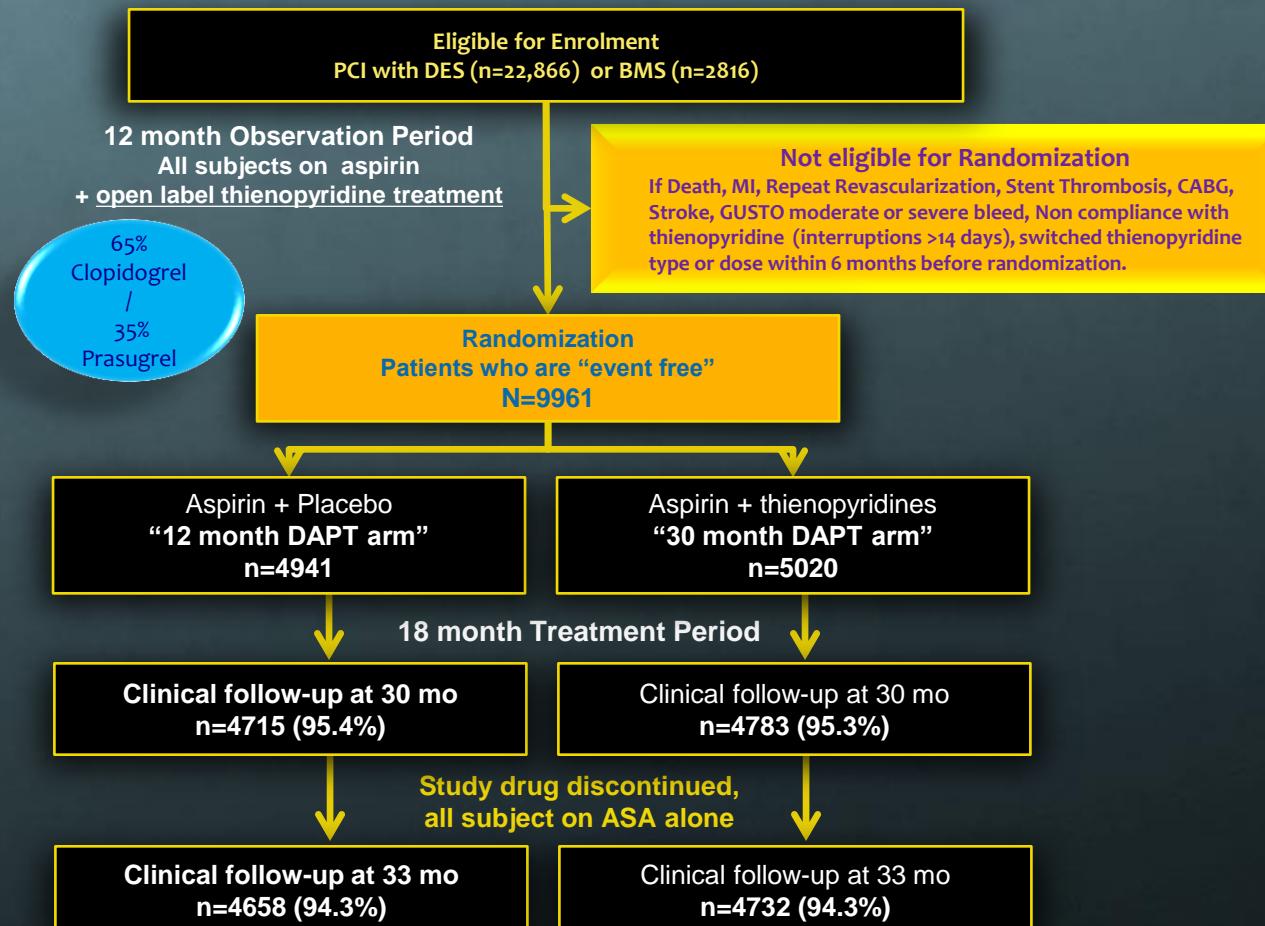
# Twelve or 30 Months of Dual Antiplatelet Therapy after Drug-Eluting Stents

Laura Mauri, M.D., Dean J. Kereiakes, M.D., Robert W. Yeh, M.D.,  
Priscilla Driscoll-Shempp, M.B.A., Donald E. Cutlip, M.D., P. Gabriel Steg, M.D.,  
Sharon-Lise T. Normand, Ph.D., Eugene Braunwald, M.D., Stephen D. Wiviott, M.D.,  
David J. Cohen, M.D., David R. Holmes, Jr., M.D., Mitchell W. Krucoff, M.D.,  
James Hermiller, M.D., Harold L. Dauerman, M.D., Daniel I. Simon, M.D.,  
David E. Kandzari, M.D., Kirk N. Garratt, M.D., David P. Lee, M.D.,  
Thomas K. Pow, M.D., Peter Ver Lee, M.D., Michael J. Rinaldi, M.D.,  
and Joseph M. Massaro, Ph.D., for the DAPT Study Investigators\*



# Estudio DAPT

## 12 vs. 30 months of DAPT-Thienopyridines in patients with a PCI

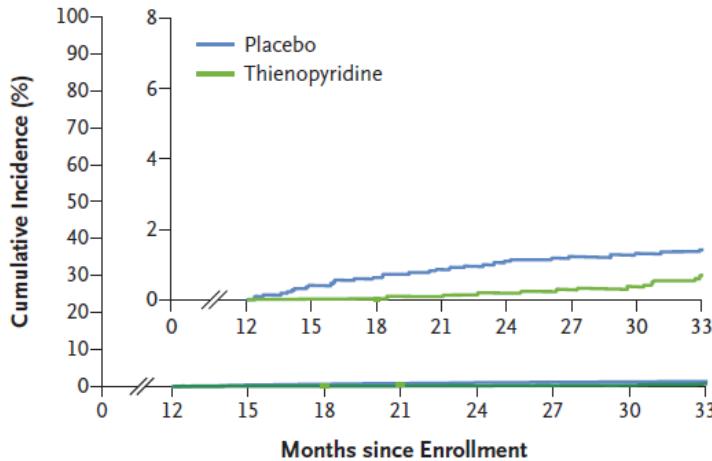


# Resultados DAPT

## Stent Thrombosis

12–30 mo Thienopyridine vs. placebo, 0.4% vs. 1.4%; hazard ratio, 0.29; P<0.001

12–33 mo Thienopyridine vs. placebo, 0.7% vs. 1.4%; hazard ratio, 0.45; P<0.001



No. at Risk	
Thienopyridine	5020
Placebo	4941

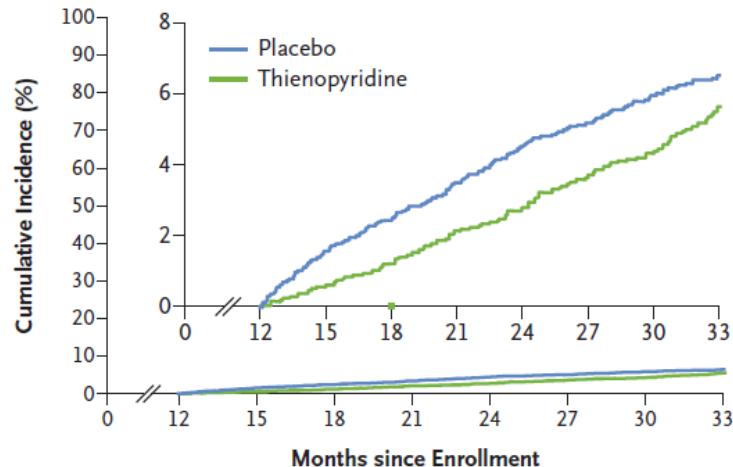
  

		4870	4828	4765	4686	4642	3110
Thienopyridine		4845	4775	4721	4651	4603	3105

## Major Adverse Cardiovascular and Cerebrovascular Events

12–30 mo Thienopyridine vs. placebo, 4.3% vs. 5.9%; hazard ratio, 0.71; P<0.001

12–33 mo Thienopyridine vs. placebo, 5.6% vs. 6.5%; hazard ratio, 0.82; P=0.02



No. at Risk	
Thienopyridine	5020
Placebo	4941

4917	4840	4778	4702	4611	4554	3029
4799	4715	4635	4542	4476	4412	2997

Table 3. Bleeding End Point during Month 12 to Month 30.\*

Bleeding Complications	Continued Thienopyridine (N=4710)	Placebo (N=4649)	Difference	Two-Sided P Value for Difference
				percentage points (95% CI)
GUSTO severe or moderate†	119 (2.5)	73 (1.6)	1.0 (0.4 to 1.5)	0.001
Severe	38 (0.8)	26 (0.6)	0.2 (-0.1 to 0.6)	0.15
Moderate	81 (1.7)	48 (1.0)	0.7 (0.2 to 1.2)	0.004
BARC type 2, 3, or 5	263 (5.6)	137 (2.9)	2.6 (1.8 to 3.5)	<0.001
Type 2	145 (3.1)	72 (1.5)	1.5 (0.9 to 2.1)	<0.001
Type 3	122 (2.6)	68 (1.5)	1.1 (0.6 to 1.7)	<0.001
Type 5	7 (0.1)	4 (0.1)	0.1 (-0.1 to 0.2)	0.38

# Resultados DAPT

**Table 2.** Stent Thrombosis and Major Adverse Cardiovascular and Cerebrovascular Events.\*

Outcome	Continued Thienopyridine (N=5020)	Placebo (N=4941)	Hazard Ratio, Thienopyridine vs. Placebo (95% CI)†	P Value†
no. of patients (%)				
Stent thrombosis‡	19 (0.4)	65 (1.4)	0.29 (0.17–0.48)	<0.001
Definite	15 (0.3)	58 (1.2)	0.26 (0.14–0.45)	<0.001
Probable	5 (0.1)	7 (0.1)	0.71 (0.22–2.23)	0.55
Major adverse cardiovascular and cerebrovascular events§	211 (4.3)	285 (5.9)	0.71 (0.59–0.85)	<0.001
Death	98 (2.0)	74 (1.5)	1.36 (1.00–1.85)	0.05
Cardiac	45 (0.9)	47 (1.0)	1.00 (0.66–1.52)	0.98
Vascular	5 (0.1)	5 (0.1)	0.98 (0.28–3.39)	0.98
Noncardiovascular	48 (1.0)	22 (0.5)	2.23 (1.32–3.78)	0.002
Myocardial infarction	99 (2.1)	198 (4.1)	0.47 (0.37–0.61)	<0.001
Stroke	37 (0.8)	43 (0.9)	0.80 (0.51–1.25)	0.32
Ischemic	24 (0.5)	34 (0.7)	0.68 (0.40–1.17)	0.16
Hemorrhagic	13 (0.3)	9 (0.2)	1.20 (0.50–2.91)	0.68
Type uncertain	0	1 (<0.1)	—	0.32



JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY  
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PUBLISHED BY ELSEVIER INC.

VOL. 65, NO. 13, 2015  
ISSN 0735-1097/\$36.00  
<http://dx.doi.org/10.1016/j.jacc.2015.01.059>

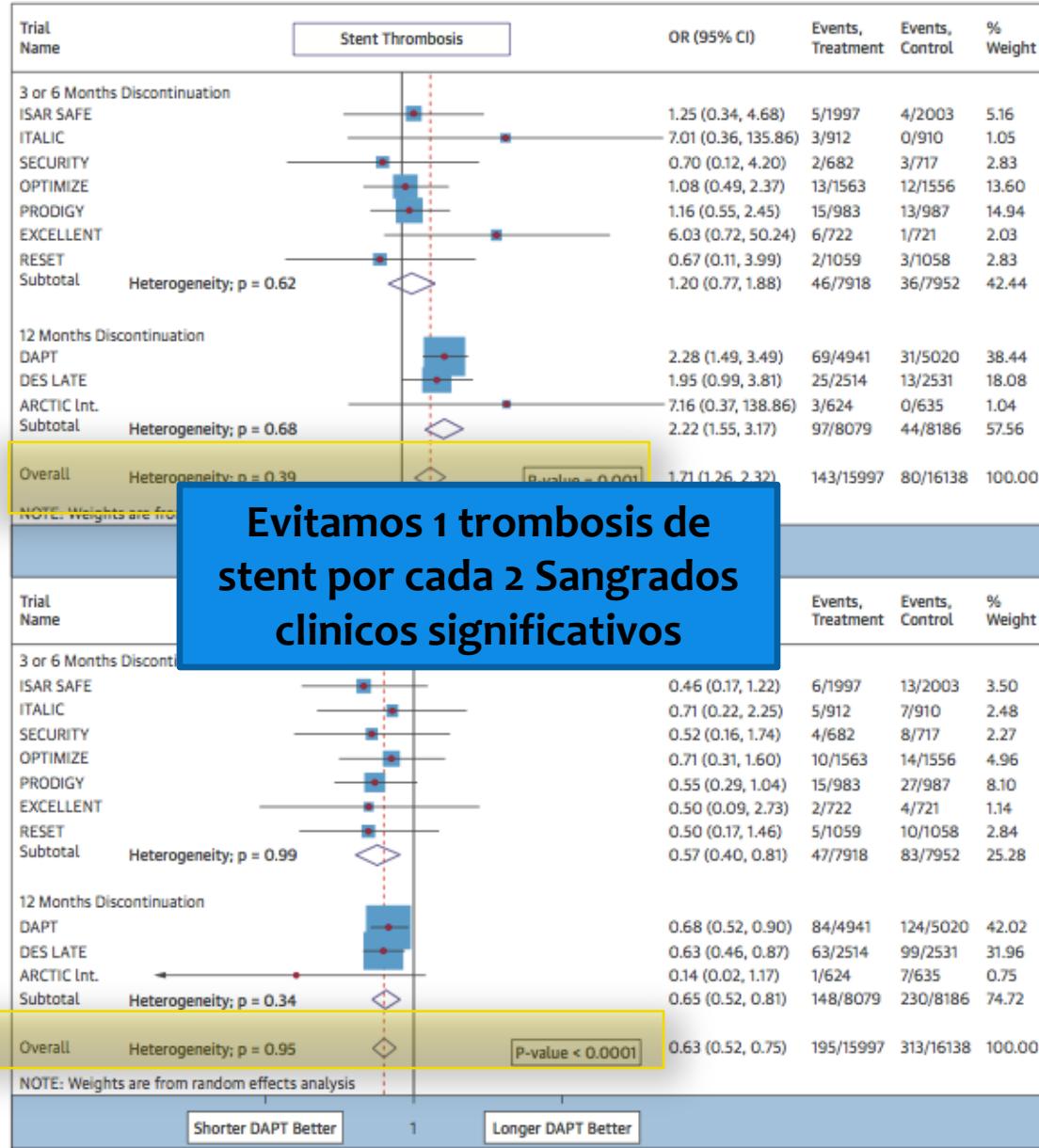
# Duration of Dual Antiplatelet Therapy After Drug-Eluting Stent Implantation

## A Systematic Review and Meta-Analysis of Randomized Controlled Trials



Gennaro Giustino, MD,\* Usman Baber, MD,\* Samantha Sartori, PhD,\* Roxana Mehran, MD,\* Ioannis Mastoris, MD,\* Annapoorna S. Kini, MD,\* Samin K. Sharma, MD,\* Stuart J. Pocock, PhD,† George D. Dangas, MD, PhD\*

**FIGURE 2** Stent Thrombosis and Clinically Significant Bleeding in Randomized Clinical Trials



Study (Ref. #)	ACS (%)
3- or 6-month DAPT discontinuation (ISAR-SAFE (16))	40
ITALIC (17)	24
SECURITY (18)	38.5
OPTIMIZE (15)	32.5
PRODIGY (20)	75
EXCELLENT (19)	52
RESET (14)	54
12-month DAPT discontinuation (DAPT (7))	43
DES-LATE (22)	61
ARCTIC-Interruption (21)	—



≈ 45 % SCA



## STENT THROMBOSIS

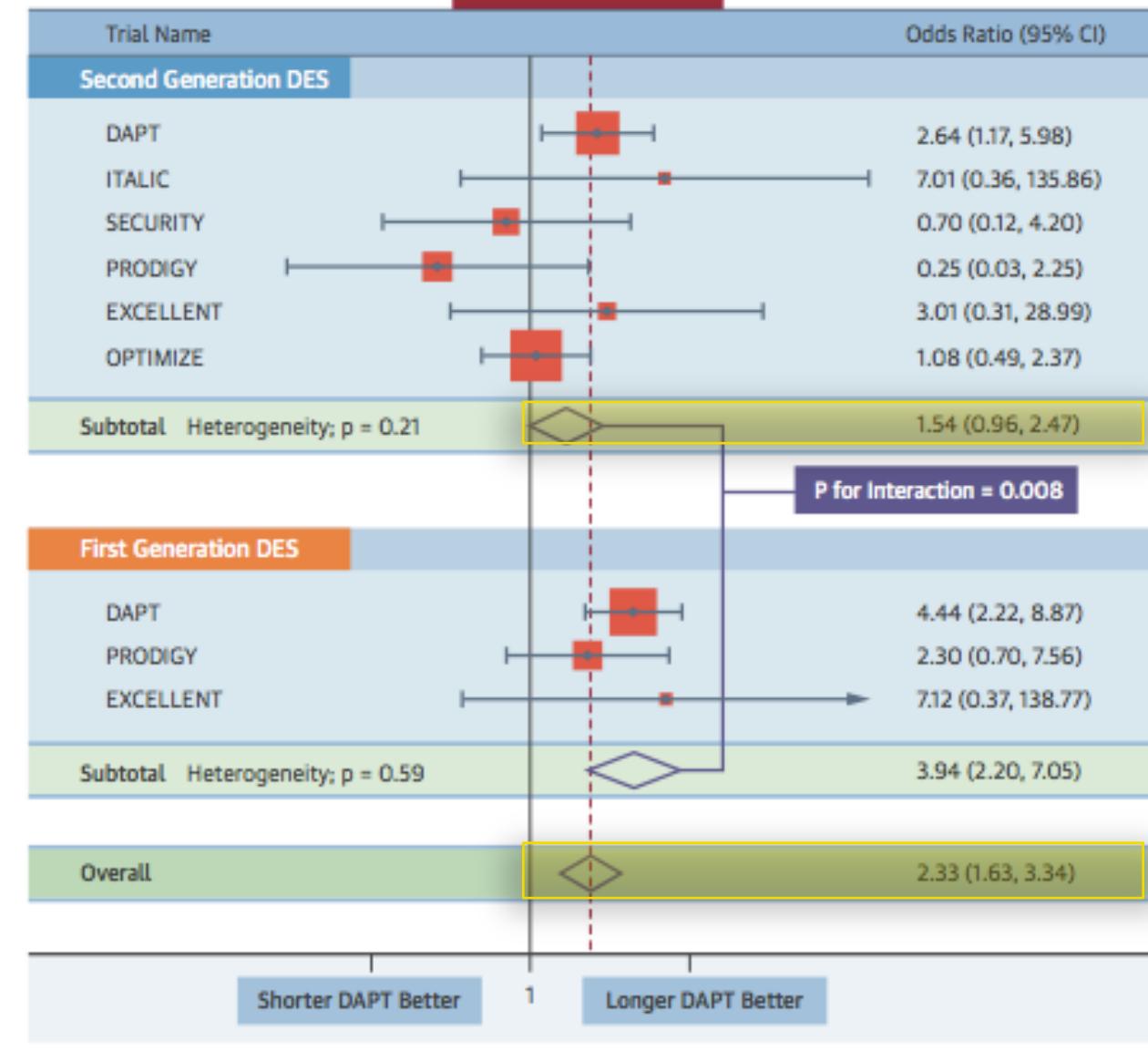
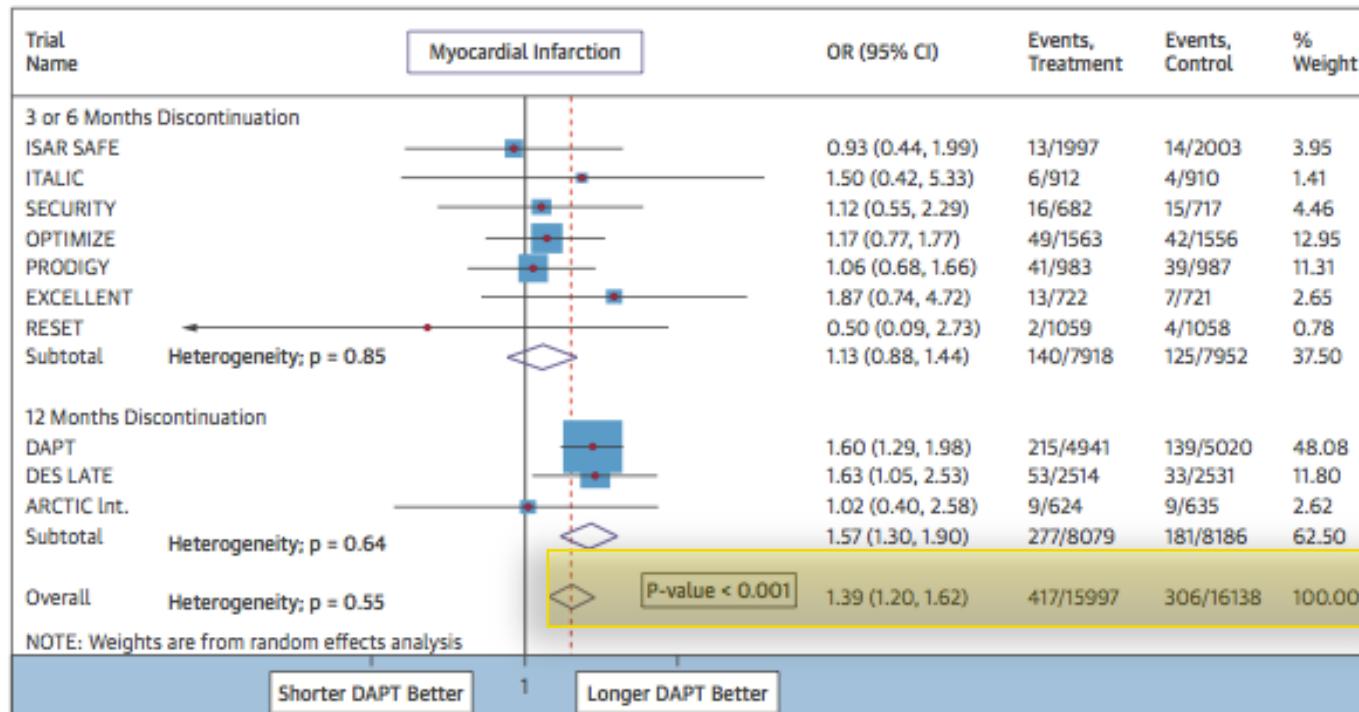


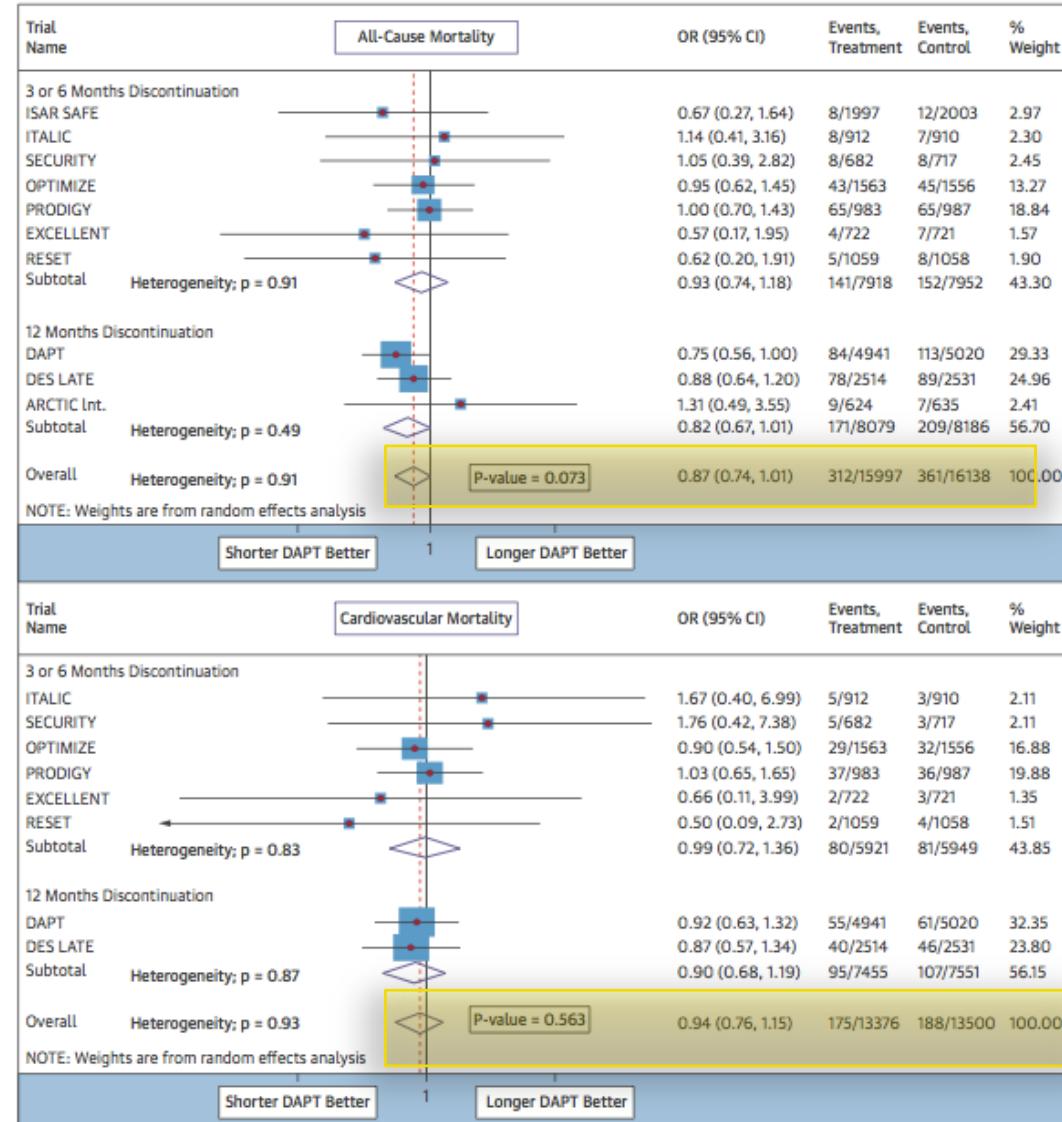


FIGURE 3 Myocardial Infarction and Stroke in Randomized Clinical Trials





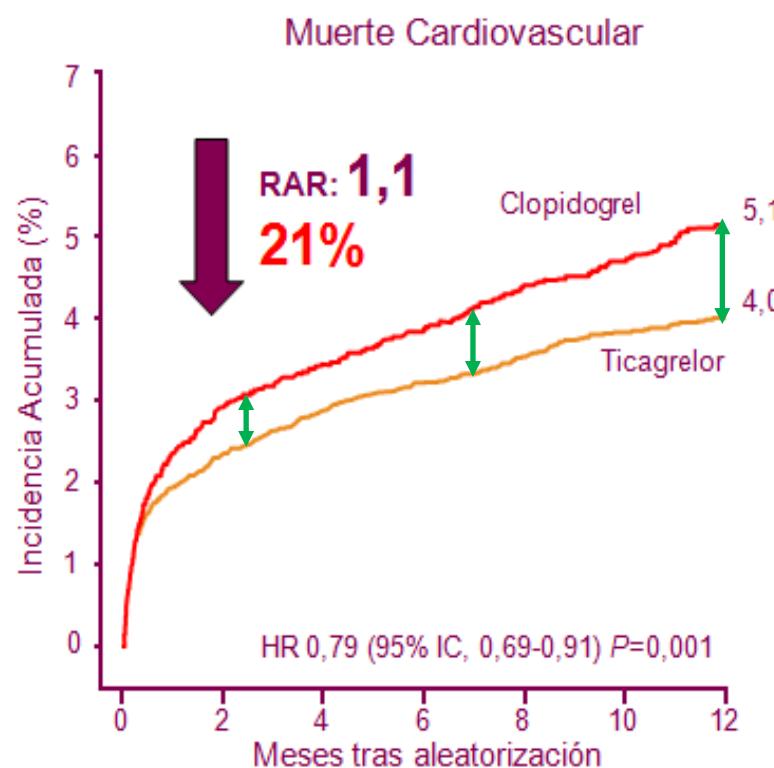
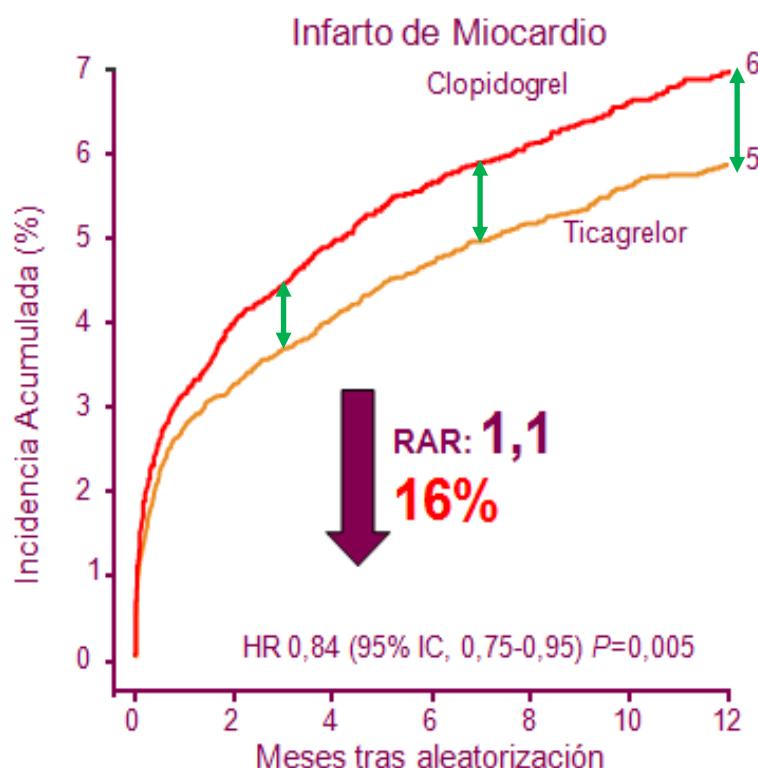
**FIGURE 4** All-Cause and Cardiovascular Mortality in Randomized Clinical Trials





## Ticagrelor versus Clopidogrel in Patients with Acute Coronary Syndromes

Lars Wallentin, M.D., Ph.D., Richard C. Becker, M.D., Andrzej Budaj, M.D., Ph.D., Christopher P. Cannon, M.D., Håkan Emanuelsson, M.D., Ph.D., Claes Held, M.D., Ph.D., Jay Horwitz, M.D., Steen Husted, M.D., D.Sc., Stefan James, M.D., Ph.D., Hugo Katus, M.D., Kenneth W. Mahaffey, M.D., Benjamin M. Scirica, M.D., M.P.H., Allan Skene, Ph.D., Philippe Gabriel Steg, M.D., Robert F. Storey, M.D., D.M., and Robert A. Harrington, M.D., for the PLATO Investigators\*



### No. en riesgo

Ticagrelor	9333	8678	8520	8279	6796	5210	4191
Clopidogrel	9291	8560	8405	8177	6703	5136	4109

9333	8294	8822	8626	7119	5482	4419
9291	8865	8780	8589	7079	5441	4364



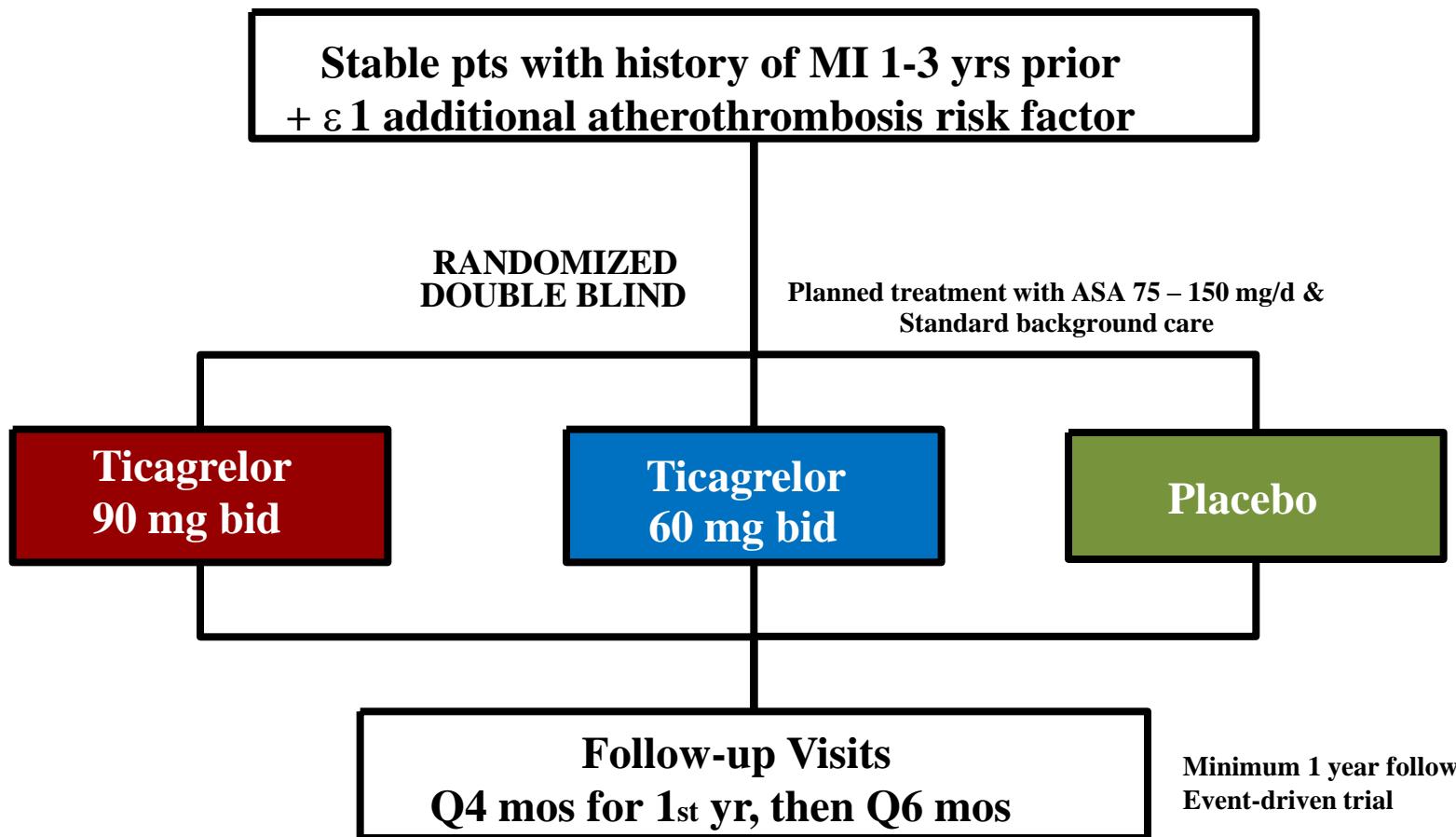
The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

## Long-Term Use of Ticagrelor in Patients with Prior Myocardial Infarction

Marc P. Bonaca, M.D., M.P.H., Deepak L. Bhatt, M.D., M.P.H.,  
Marc Cohen, M.D., Philippe Gabriel Steg, M.D., Robert F. Storey, M.D.,  
Eva C. Jensen, M.D., Ph.D., Giulia Magnani, M.D., Sameer Bansilal, M.D.,  
M. Polly Fish, B.A., Kyungah Im, Ph.D., Olof Bengtsson, Ph.Lic.,  
Ton Oude Ophuis, M.D., Ph.D., Andrzej Budaj, M.D., Ph.D., Pierre Theroux, M.D.,  
Mikhail Ruda, M.D., Christian Hamm, M.D., Shinya Goto, M.D.,  
Jindrich Spinar, M.D., José Carlos Nicolau, M.D., Ph.D., Robert G. Kiss, M.D., Ph.D.,  
Sabina A. Murphy, M.P.H., Stephen D. Wiviott, M.D., Peter Held, M.D., Ph.D.,  
Eugene Braunwald, M.D., and Marc S. Sabatine, M.D., M.P.H.,  
for the PEGASUS-TIMI 54 Steering Committee and Investigators\*

# Trial Design



# Key Inclusion & Exclusion Criteria

## KEY INCLUSION

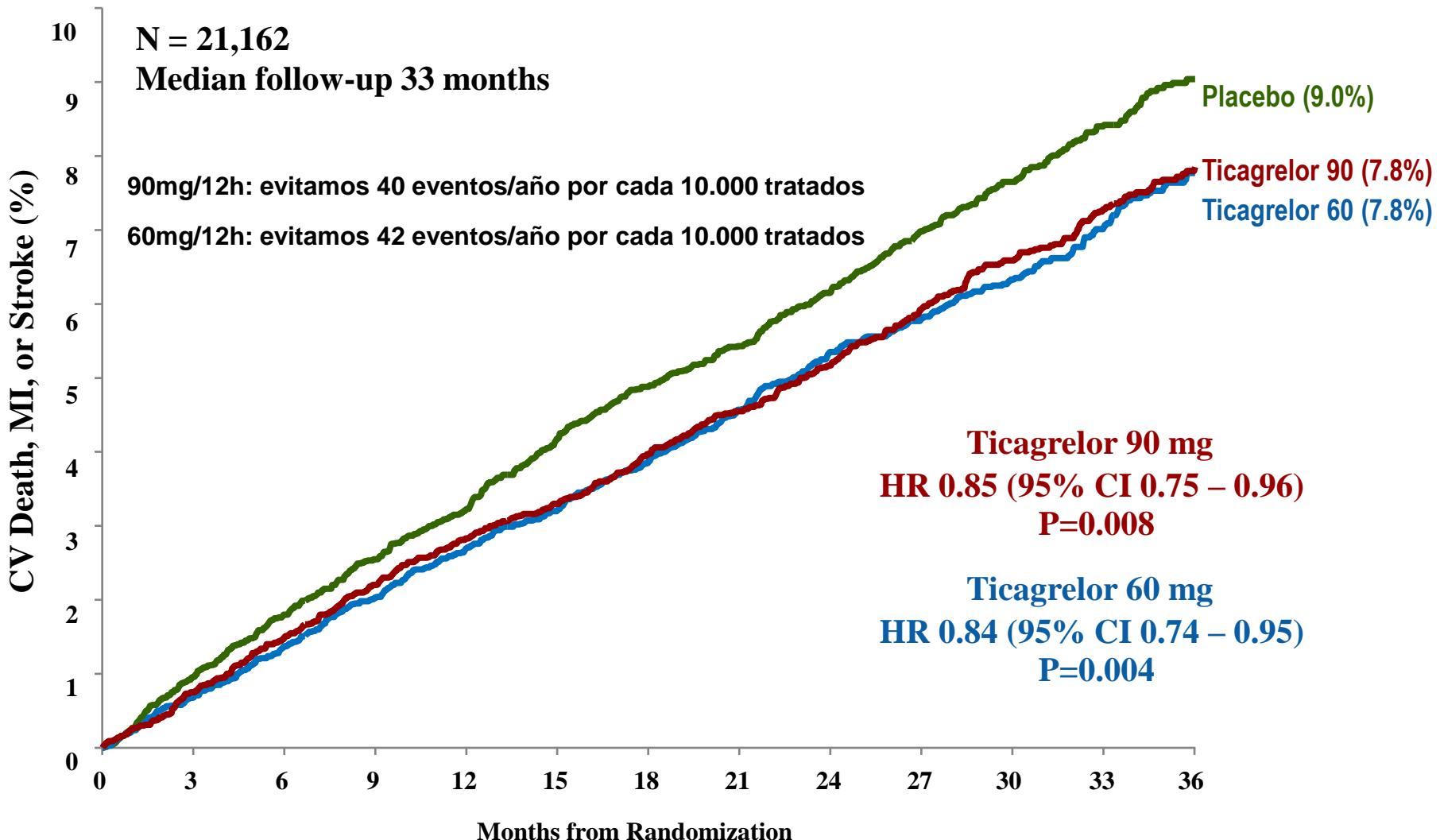
- Age  $\geq 50$  years
- At least 1 of the following:
  - Age  $\geq 65$  years
  - Diabetes requiring medication
  - 2<sup>nd</sup> prior MI ( $>1$  year ago)
  - Multivessel CAD
  - CrCl  $<60$  mL/min
- Tolerating ASA and able to be dosed at 75-150 mg/d

## KEY EXCLUSION

- Planned use of P2Y<sub>12</sub> antagonist, dipyridamole, cilostazol, or anticoag
- Bleeding disorder
- History of ischemic stroke, ICH, CNS tumor or vascular abnormality
- Recent GI bleed or major surgery
- At risk for bradycardia
- Dialysis or severe liver disease

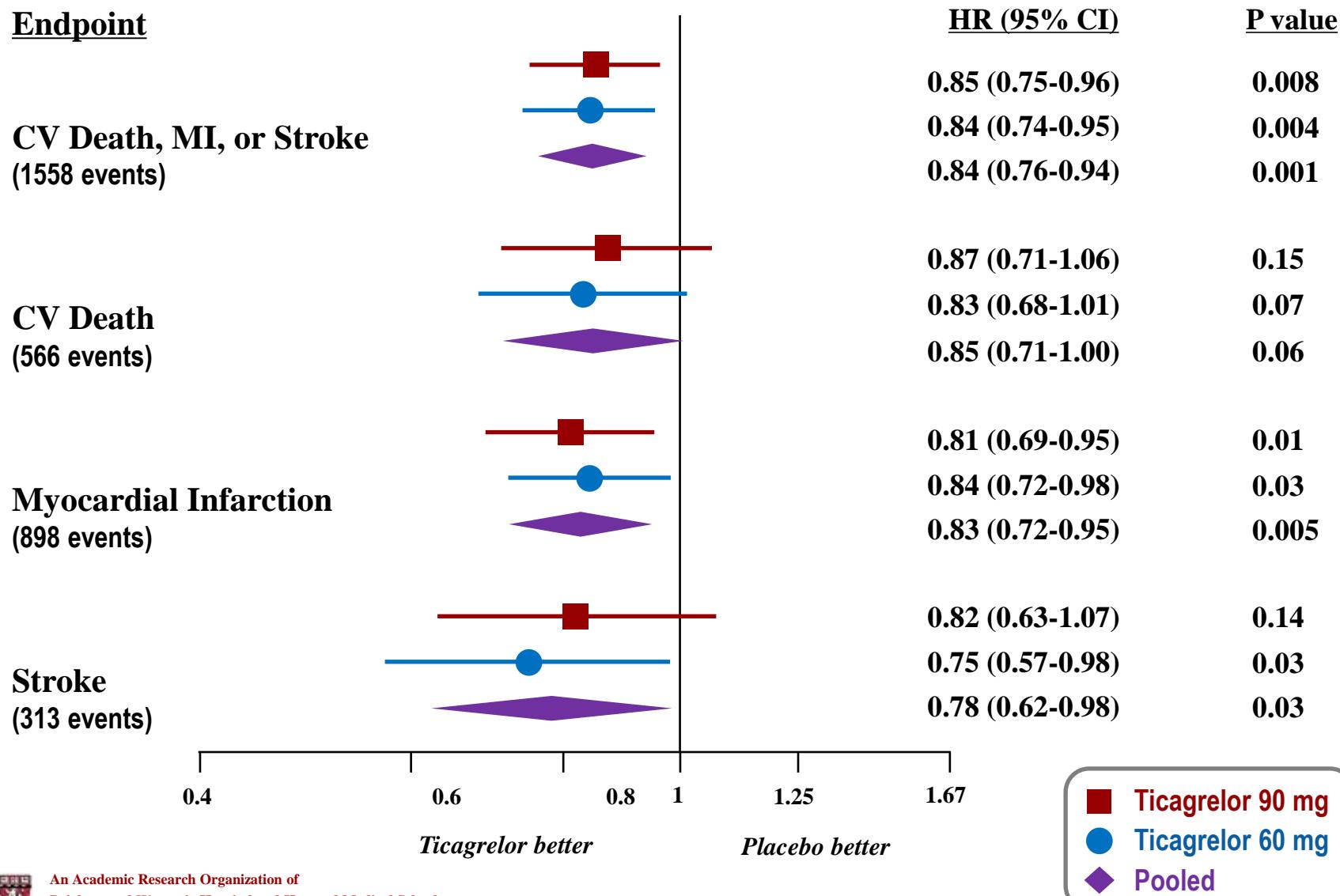


# Primary Endpoint



# Components of Primary Endpoint

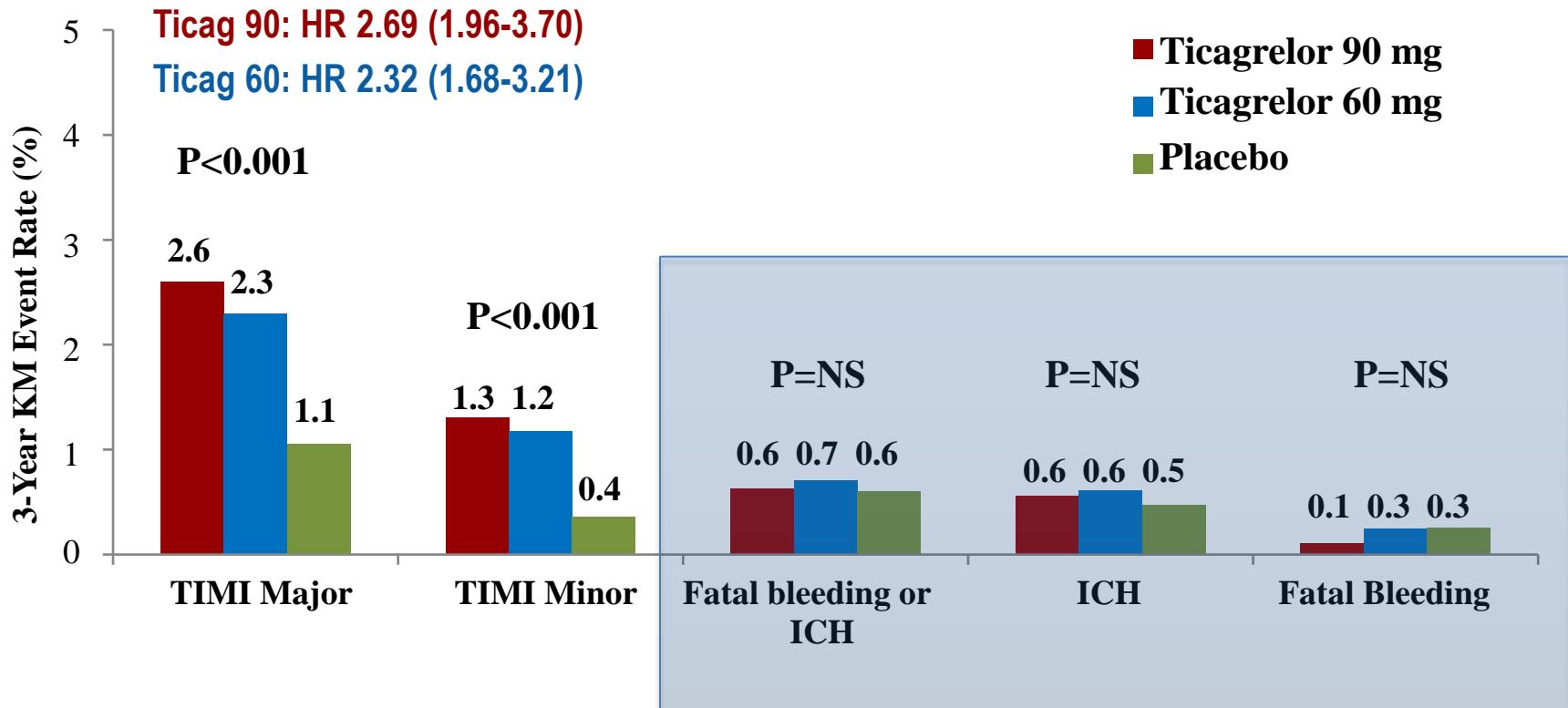
## Endpoint



# Bleeding

90mg/12h: Sangrado mayor TIMI : 41 eventos/año por cada 10.000 tratados

60mg/12h: Sangrado mayor TIMI : 31 eventos/año por cada 10.000 tratados

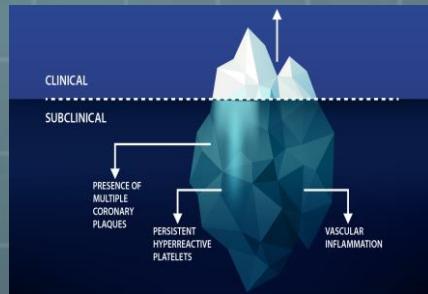


# Conclusiones

- Añadir Ticagrelor a bajas dosis de AAS en pacientes estables con historia de IM reduce el riesgo de muerte CDV, ictus o infarto
- Ticagrelor aumenta el riesgo de sangrado mayor TIMI, pero no de sangrado fatal ni intracraneal
- Las dos dosis tienen una eficacia similar, pero el sangrado y otros efectos secundarios son menores con la dosis de 60 mg/12h



# RIESGO RESIDUAL

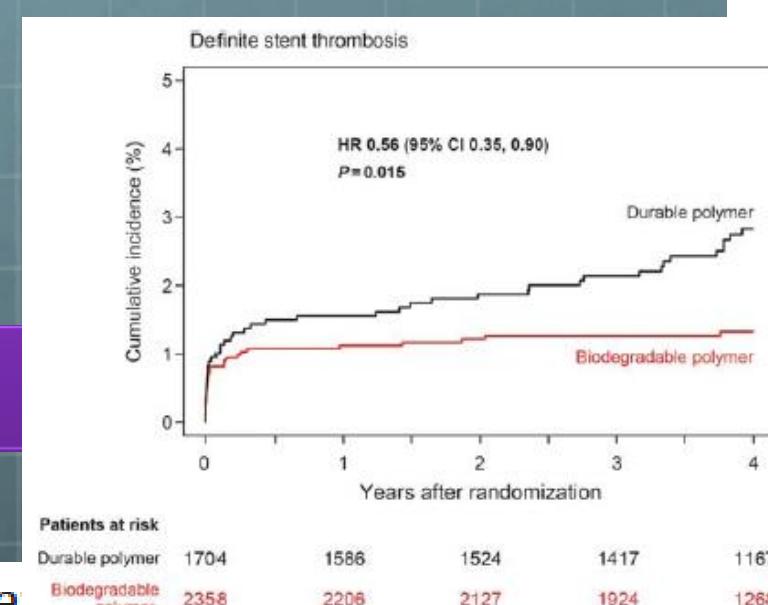


# SINDROME CORONARIO AGUDO



STENT

Continued thienopyridine therapy with a lower cumulative incidence of myocardial infarction than was placebo (2.1% vs. 4.1%; hazard ratio, 0.47 [95% CI, 0.37 to 0.61];  $P<0.001$ ) (Fig. S1 in the Supplementary Appendix); myocardial infarction that was not related to stent thrombosis (1.8% vs. 2.9%; hazard ratio, 0.59;  $P<0.001$ ) accounted for 55% of the treatment benefit. The two groups had similar rates of death





● El riesgo --- beneficio de la duración de la DAPT debe individualizarse según riesgo isquémico y hemorrágico





# Duration of dual antiplatelet therapy after coronary artery stenting: where is the sweet spot between ischaemia and bleeding?

Ronald K. Binder and Thomas F. Lüscher\*

European Heart Journal Advance Access published April 2, 2015

Ischemic Risk

	Low	Moderate	High
Low	6 months	12 months	$\geq 30$ months
Moderate	3 – 6 months	6 - 12 months	12 months
High	$\leq 3$ months	3 - 6 months	6 - 12 months

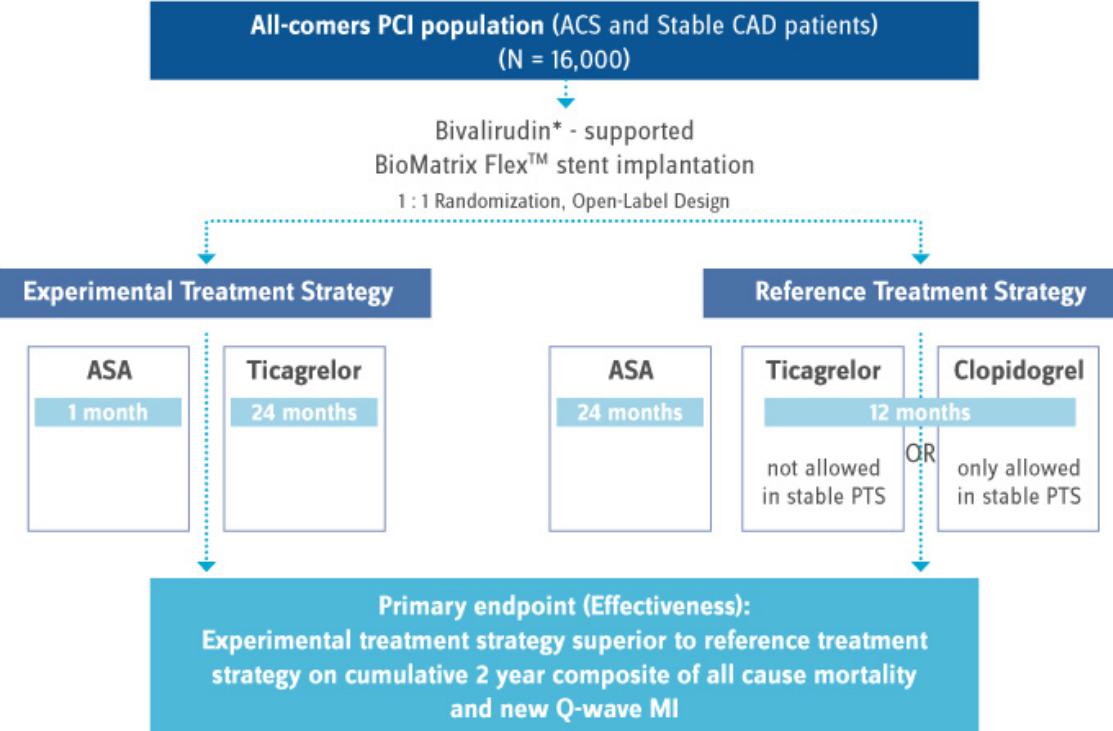




# GLOBAL LEADERS TRIAL

**ECRI**  
Ergonomics Research Institute

## *GLOBAL LEADERS flowchart*



Scientific Grants to ECRI: Biosensors, AstraZeneca and The Medicines Company

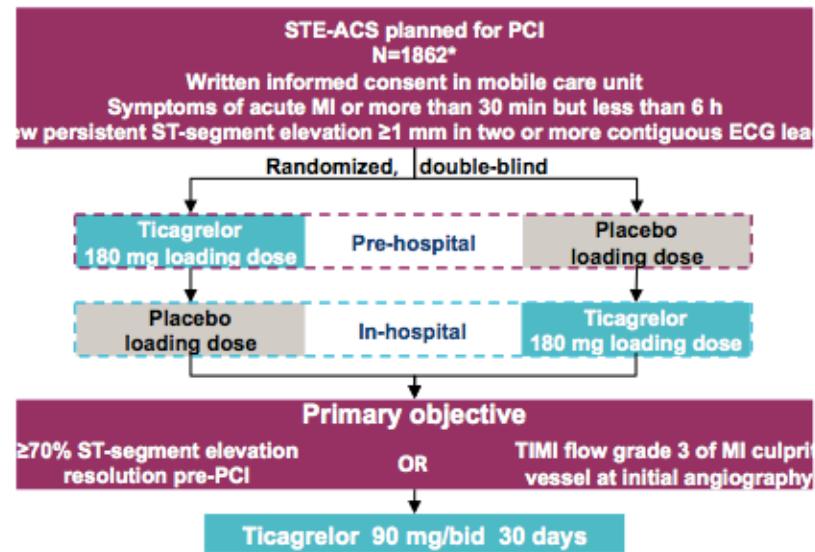
\* In countries where available

## ORIGINAL ARTICLE

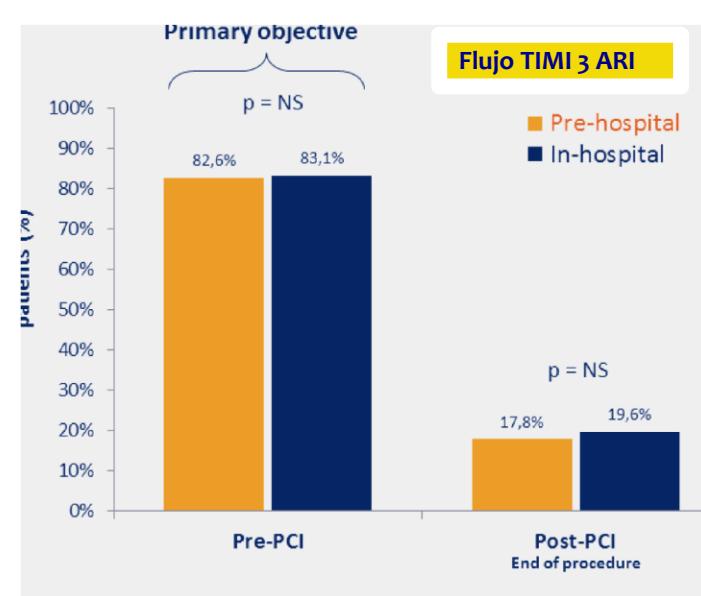
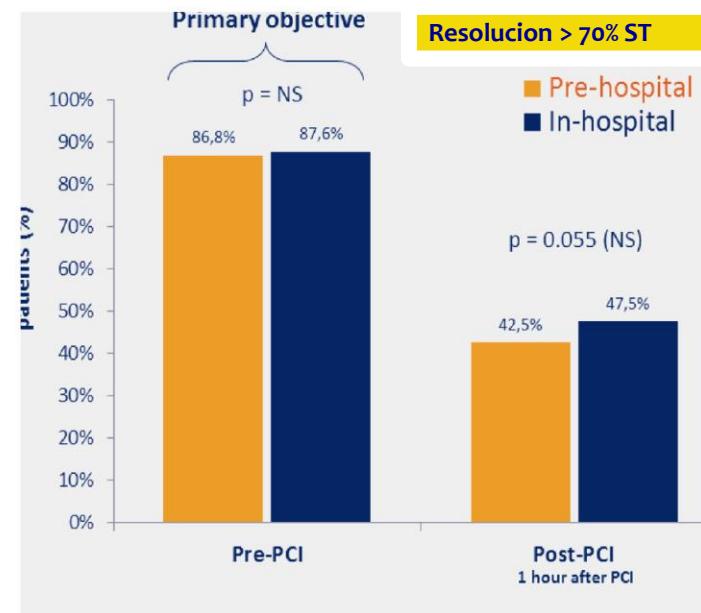
## Prehospital Ticagrelor in ST-Segment Elevation Myocardial Infarction

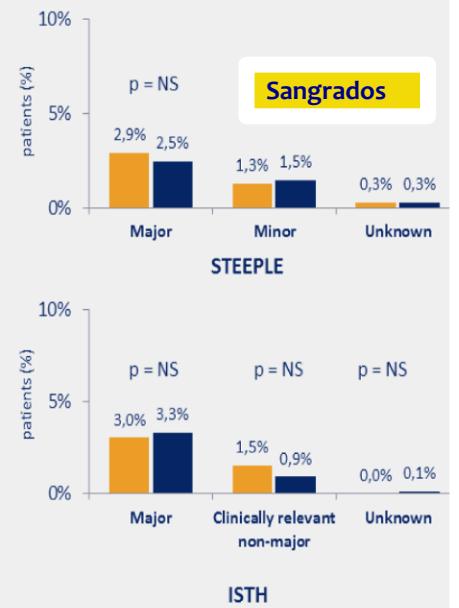
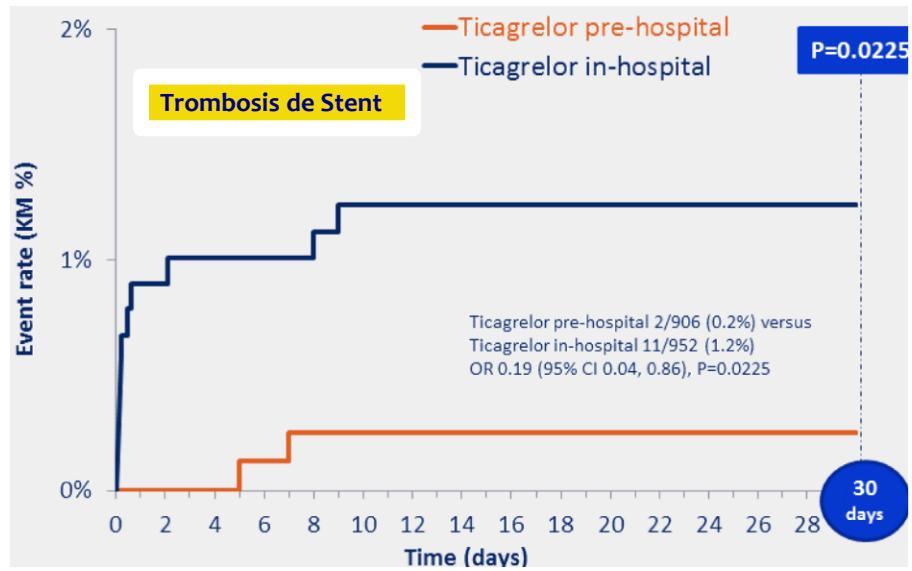
Gilles Montalescot, M.D., Ph.D., Arnoud W. van 't Hof, M.D., Ph.D., Frédéric Lapostolle, M.D., Ph.D., Johanne Silvain, M.D., Ph.D., Jens Flensted Lassen, M.D., Ph.D., Leonardo Bolognesi, M.D., Warren J. Cantor, M.D., Ángel Cequier, M.D., Ph.D., Mohamed Chettibi, M.D., Ph.D., Shaun G. Goodman, M.D., Christopher J. Hammett, M.B., Ch.B., M.D., Kurt Huber, M.D., Magnus Janzon, M.D., Ph.D., Béla Merkely, M.D., Ph.D., Robert F. Storey, M.D., D.M., Uwe Zeymer, M.D., Olivier Stibbe, M.D., Patrick Ecollan, M.D., Wim M.J.M. Heutz, M.D., Eva Swahn, M.D., Ph.D., Jean-Philippe Collet, M.D., Ph.D., Frank F. Willems, M.D., Ph.D., Caroline Baradat, M.Sc., Muriel Licour, M.Sc., Anne Tsatsaris, M.D., Eric Vicaut, M.D., Ph.D., and Christian W. Hamm, M.D., Ph.D., for the ATLANTIC Investigators\*

### ATLANTIC study population and design



\*Consented and randomized  
 Montalescot G et al. Am Heart J 2013;165:515-522.







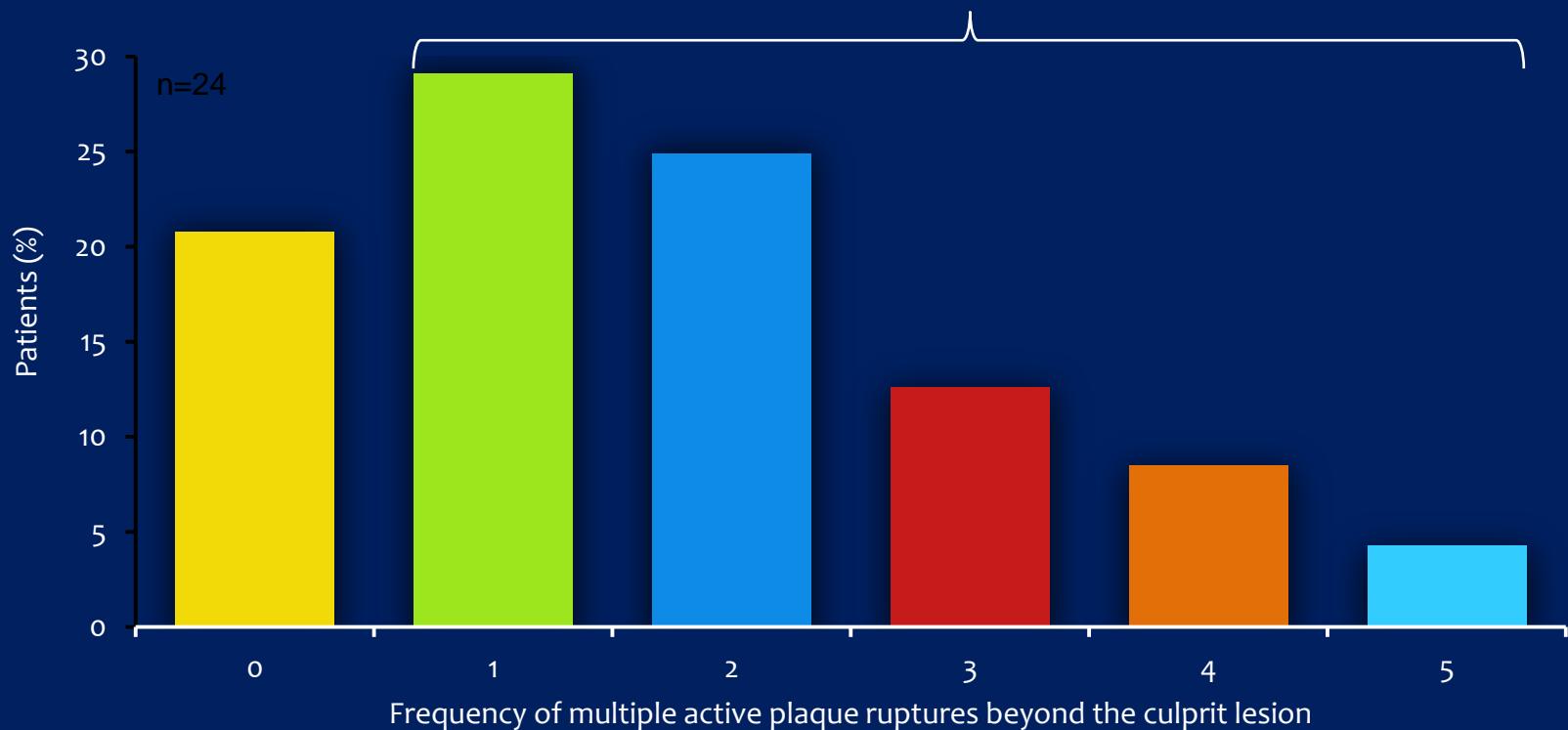
**Muchas gracias**



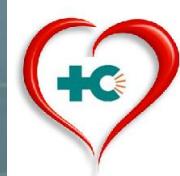


# Patients with ACS have multiple active plaques

79% of patients have >1 active plaque<sup>[Rioufol 2002]</sup>



# APOLLO: 5 individual studies in 4 countries encompassing >150,000 patients

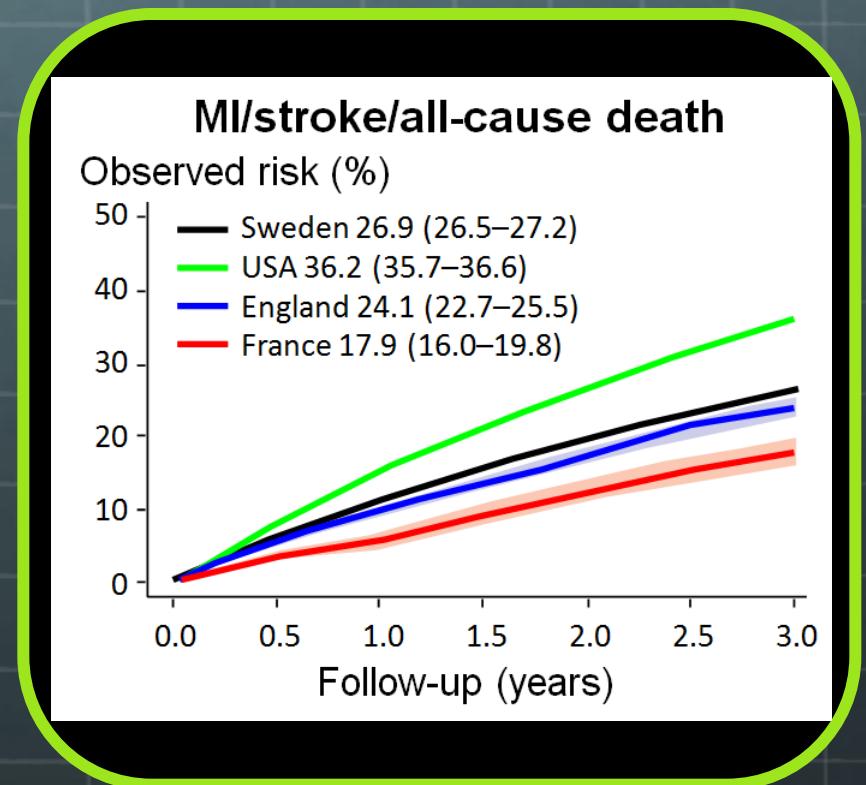
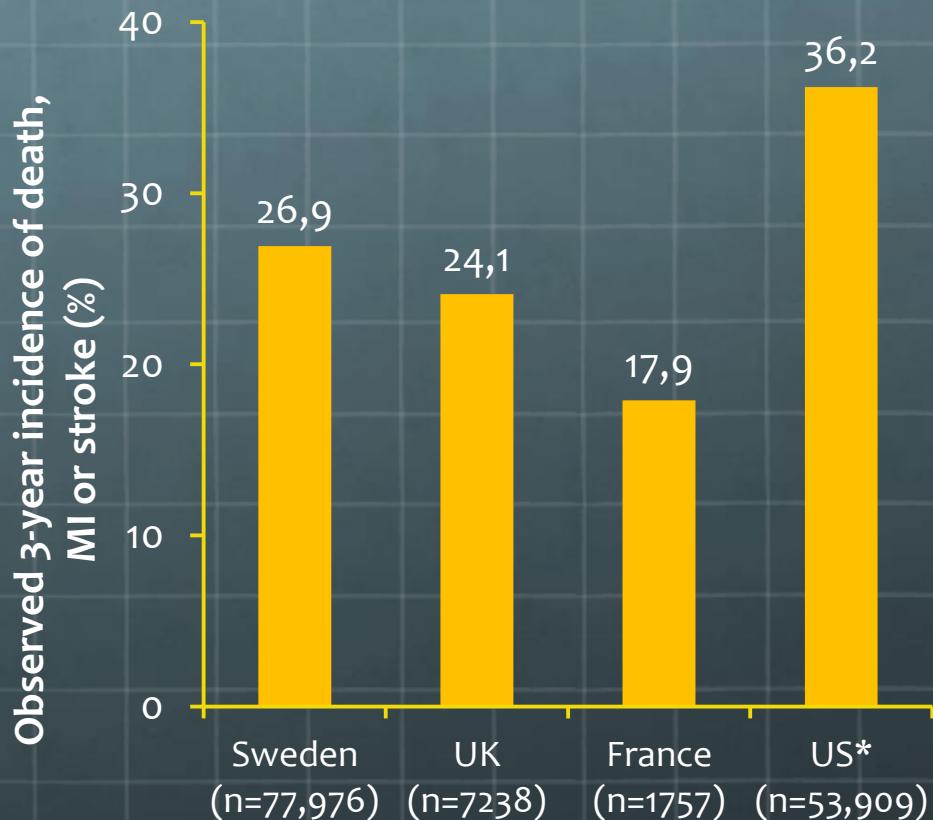


Countries	Sweden	USA	England	France
Record sources	National registries	Medicare	CPRD, MINAP, HES	EGB, PMSI
Details	<ul style="list-style-type: none"><li>• Nationwide</li><li>• N=77 976</li><li>• Hospitalisation</li><li>• MI/stroke/bleed</li><li>• Death</li></ul>	<ul style="list-style-type: none"><li>• Sample</li><li>• N=53 909</li><li>• Hospitalisation</li><li>• MI/stroke/bleed</li><li>• Death</li></ul>	<ul style="list-style-type: none"><li>• Sample</li><li>• N=7238</li><li>• Hospitalisation</li><li>• MI/stroke/bleed</li><li>• Death</li></ul>	<ul style="list-style-type: none"><li>• Sample</li><li>• N=1764</li><li>• Hospitalisation</li><li>• MI/stroke/bleed</li><li>• Death</li></ul>



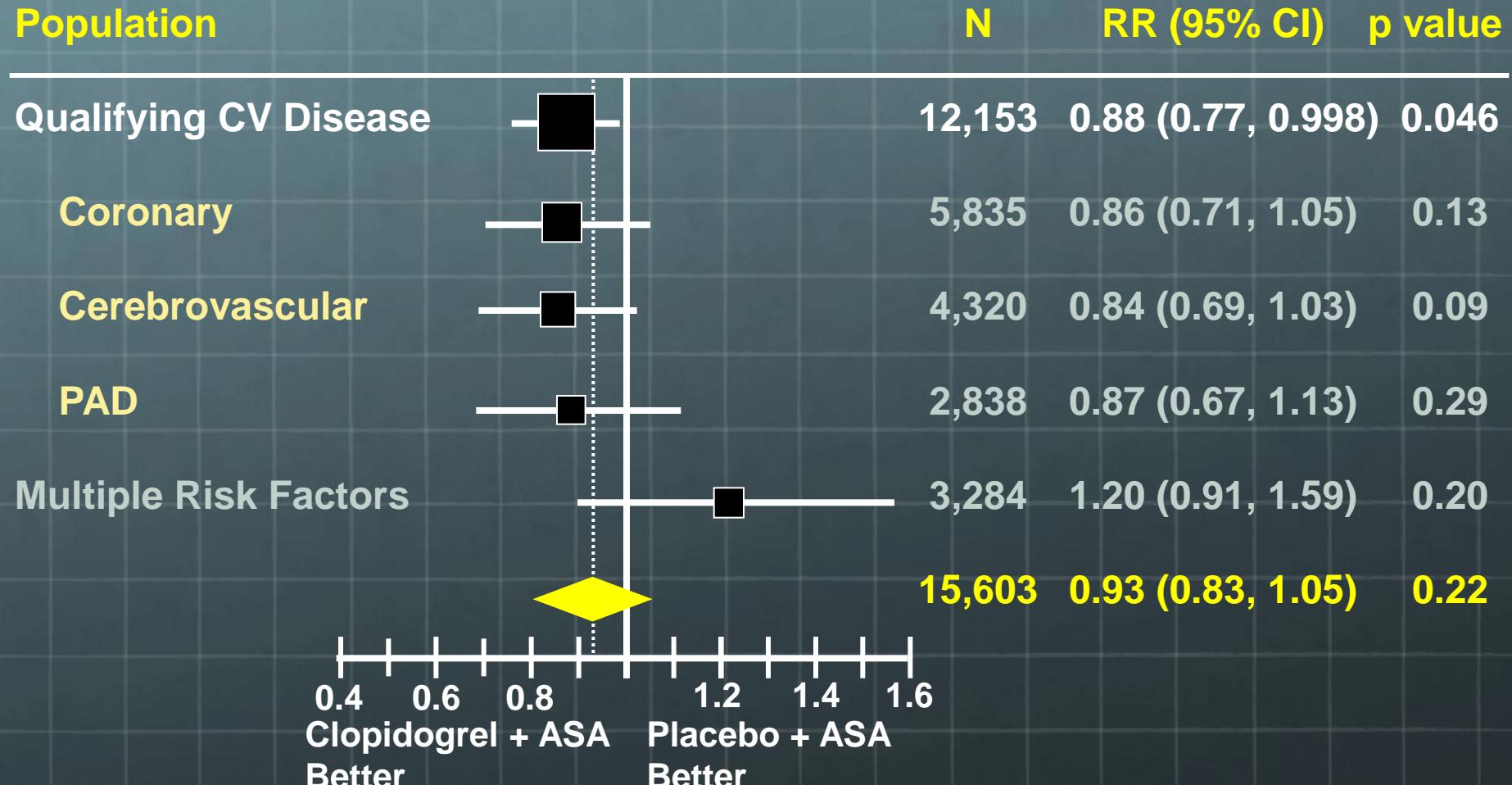
Mas de 1/3 de los pacientes libres de eventos en el primer año tras un infarto, sufrirán en los siguientes tres años un ictus, muerte o infarto

## APOLLO 4-country analysis : Incidencia Observada



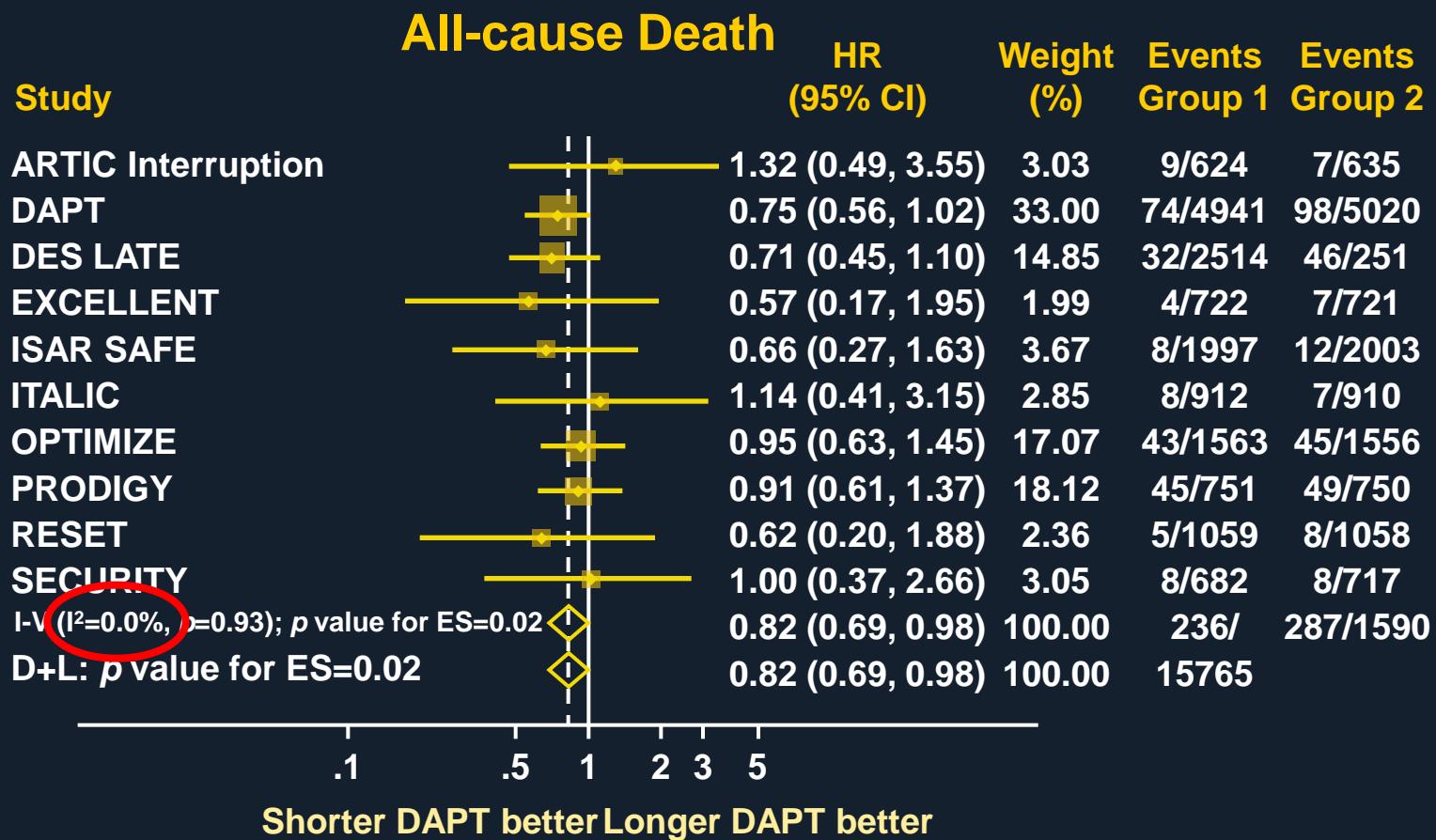
\*US sample restricted to patients aged  $\geq 65$  years. MI, myocardial infarction. Shaded areas / figures in brackets [95%CI]  
Rapsomaniki E, et al. ESC Late Breaking Registry presentation 2014: In press.

# Primary Efficacy Results (MI/Stroke/CV Death) by Category of Inclusion Criteria



# Mortality with Extended Duration DAPT After DES:

## Meta-Analysis of 10 RCTs and 31,666 Pts



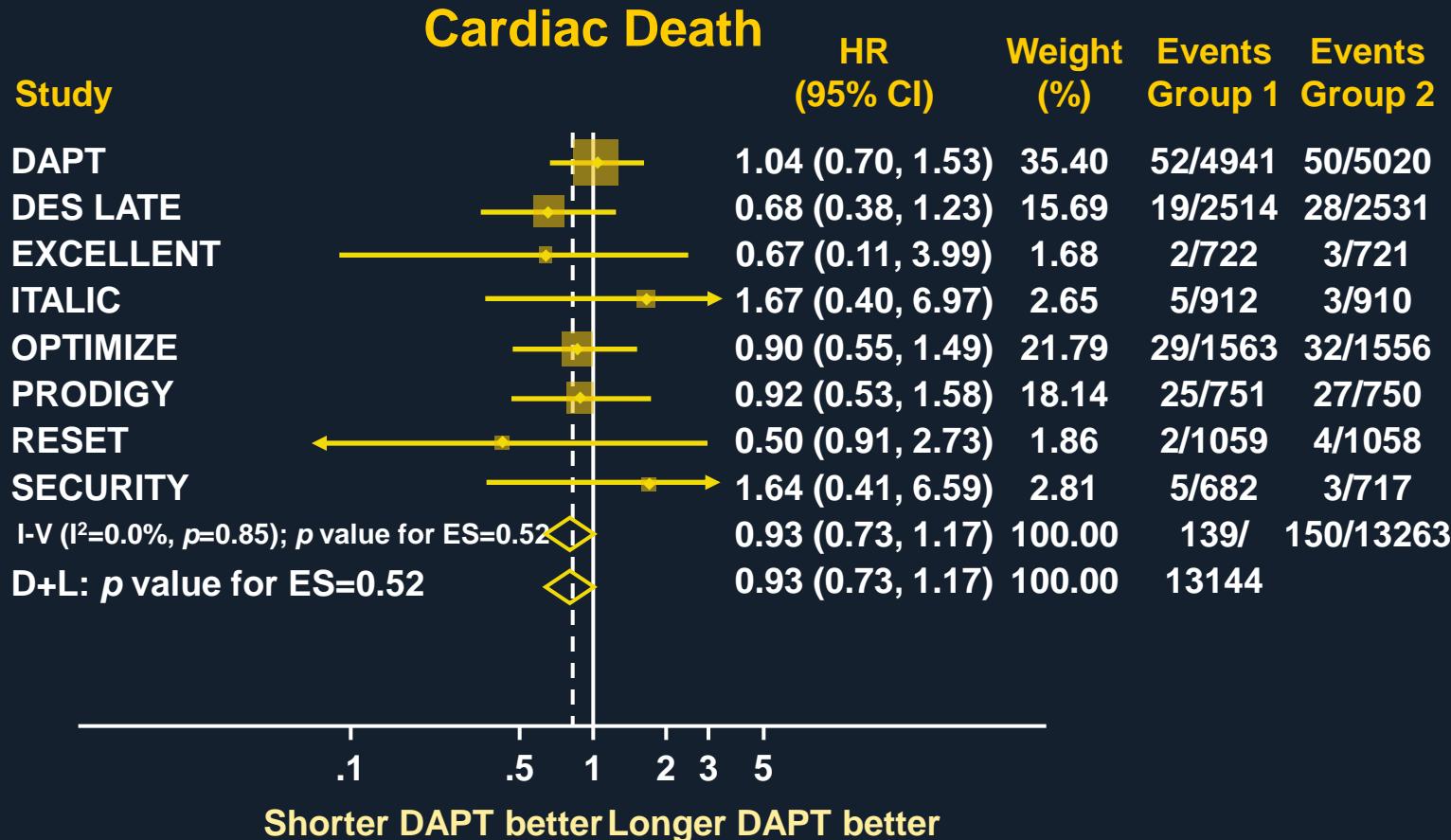
22% ↑  
mortality  
with  
prolonged  
DAPT  
(p=0.02)

ES=effect size



# Mortality with Extended Duration DAPT After DES:

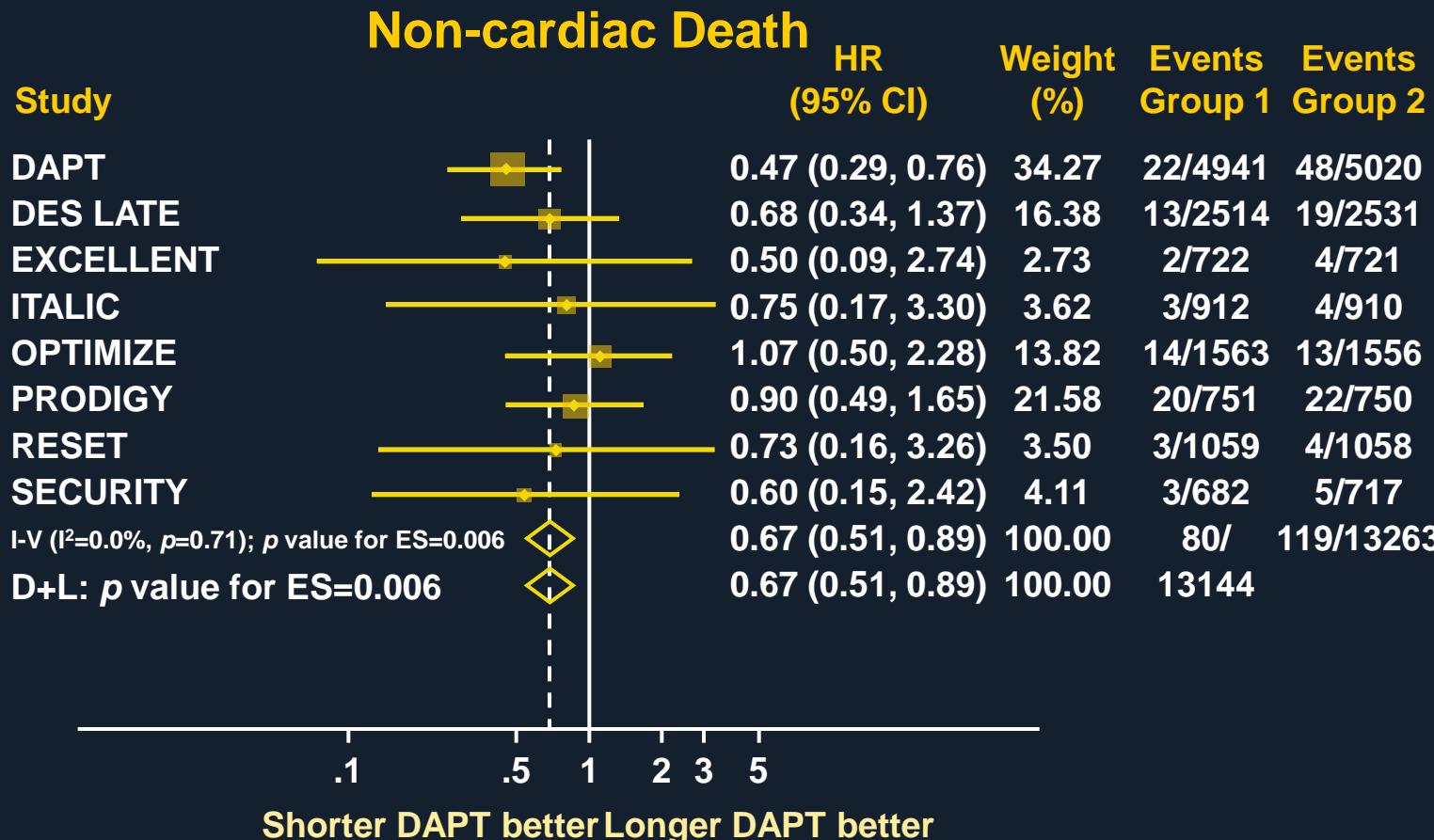
## Meta-Analysis of 10 RCTs and 31,666 Pts



8% ↑  
cardiac  
mortality  
with  
prolonged  
DAPT  
( $p=NS$ )

ES=effect size

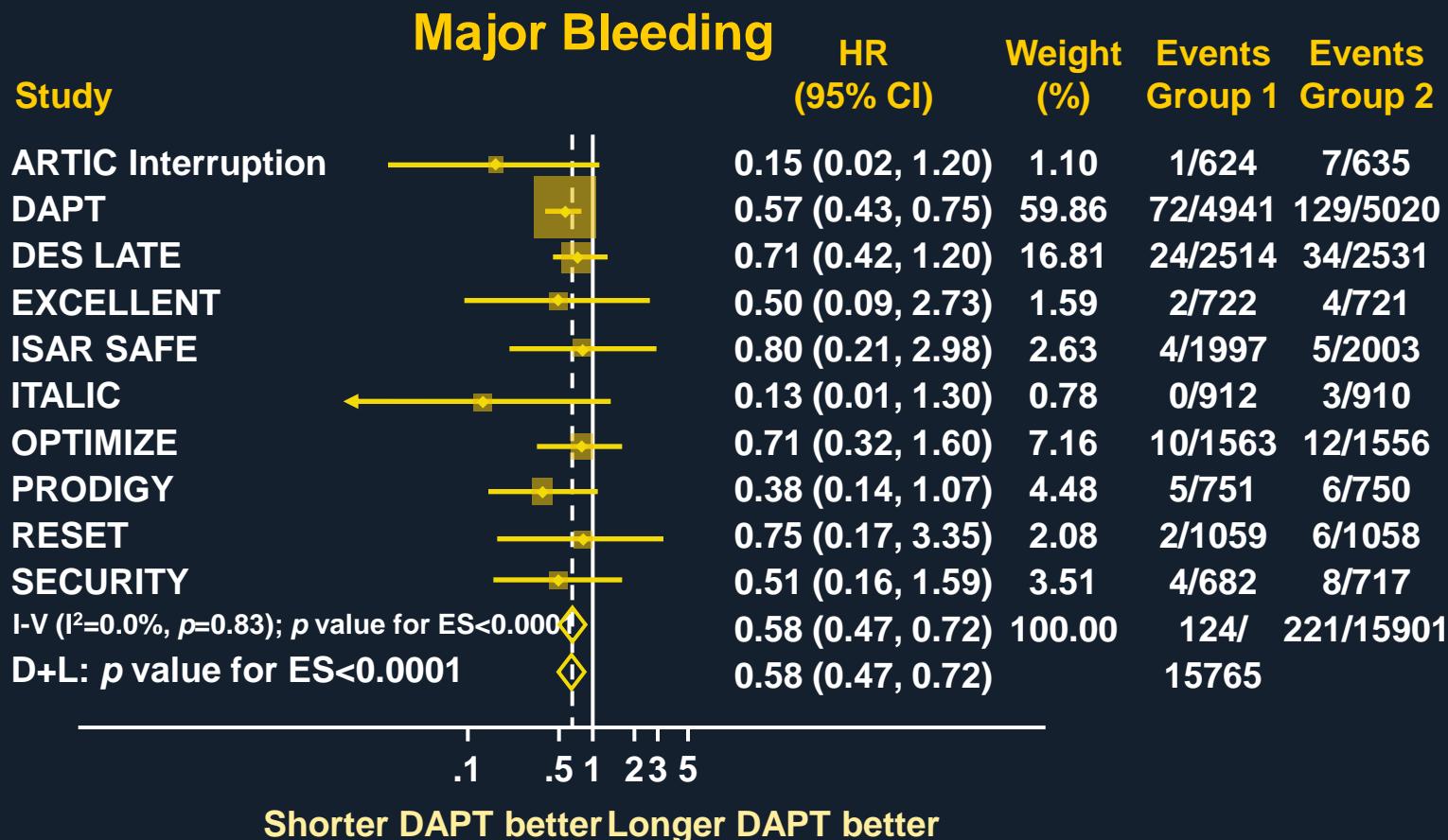
# Mortality with Extended Duration DAPT After DES: Meta-Analysis of 10 RCTs and 31,666 Pts



49%↑  
non-  
cardiac  
mortality  
with  
prolonged  
DAPT  
( $p=0.006$ )

ES=effect size

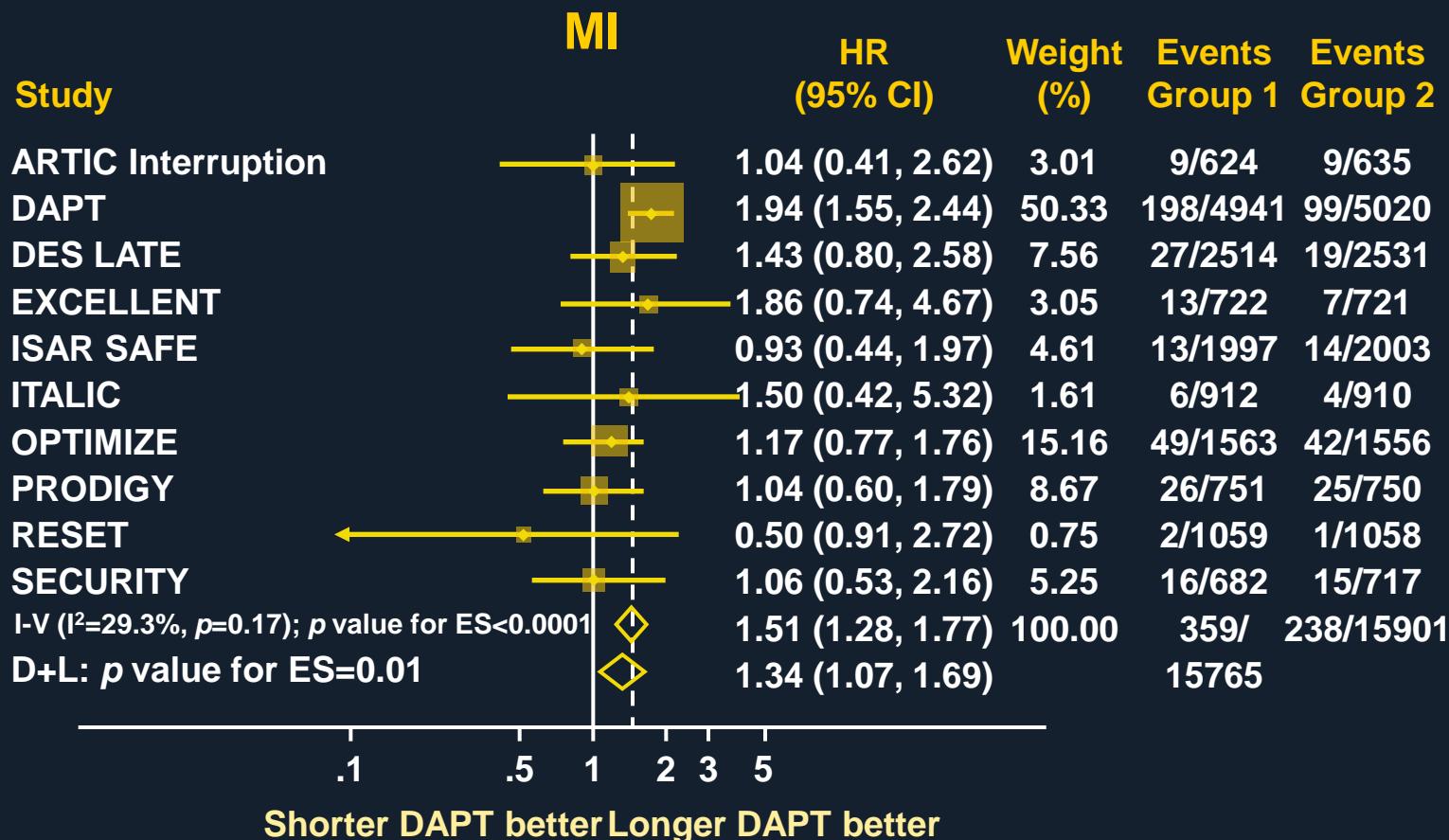
# Mortality with Extended Duration DAPT After DES: Meta-Analysis of 10 RCTs and 31,666 Pts



72%↑  
bleeding  
with  
prolonged  
DAPT  
( $p<0.0001$ )

ES=effect size

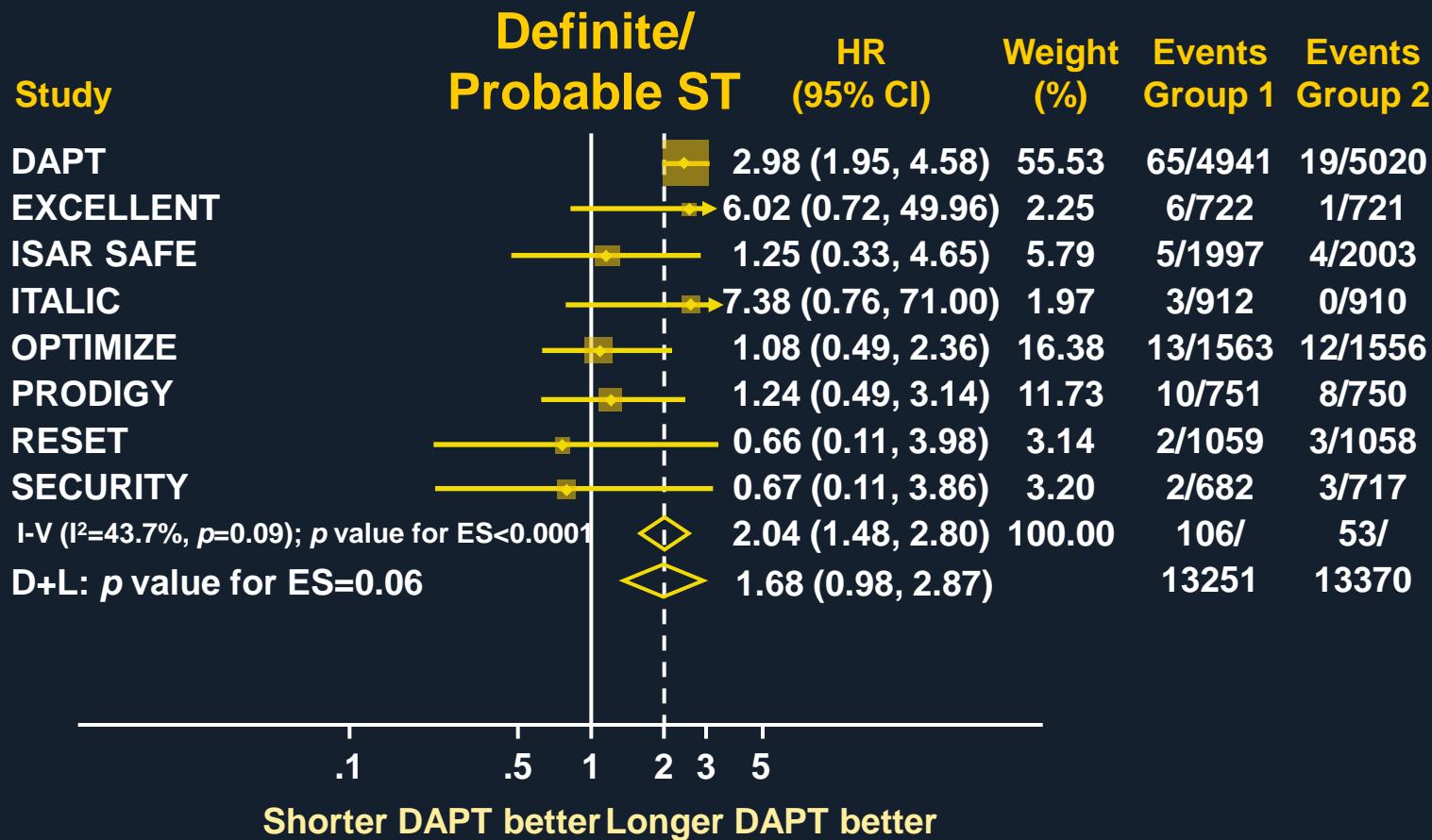
# Mortality with Extended Duration DAPT After DES: Meta-Analysis of 10 RCTs and 31,666 Pts



25%↓  
**MI**  
with  
prolonged  
**DAPT**  
( $p=0.01$ )

ES=effect size

# Mortality with Extended Duration DAPT After DES: Meta-Analysis of 10 RCTs and 31,666 Pts



41%↓  
stent  
thrombosis  
with  
prolonged  
DAPT  
( $p=0.06$ )

ES=effect size

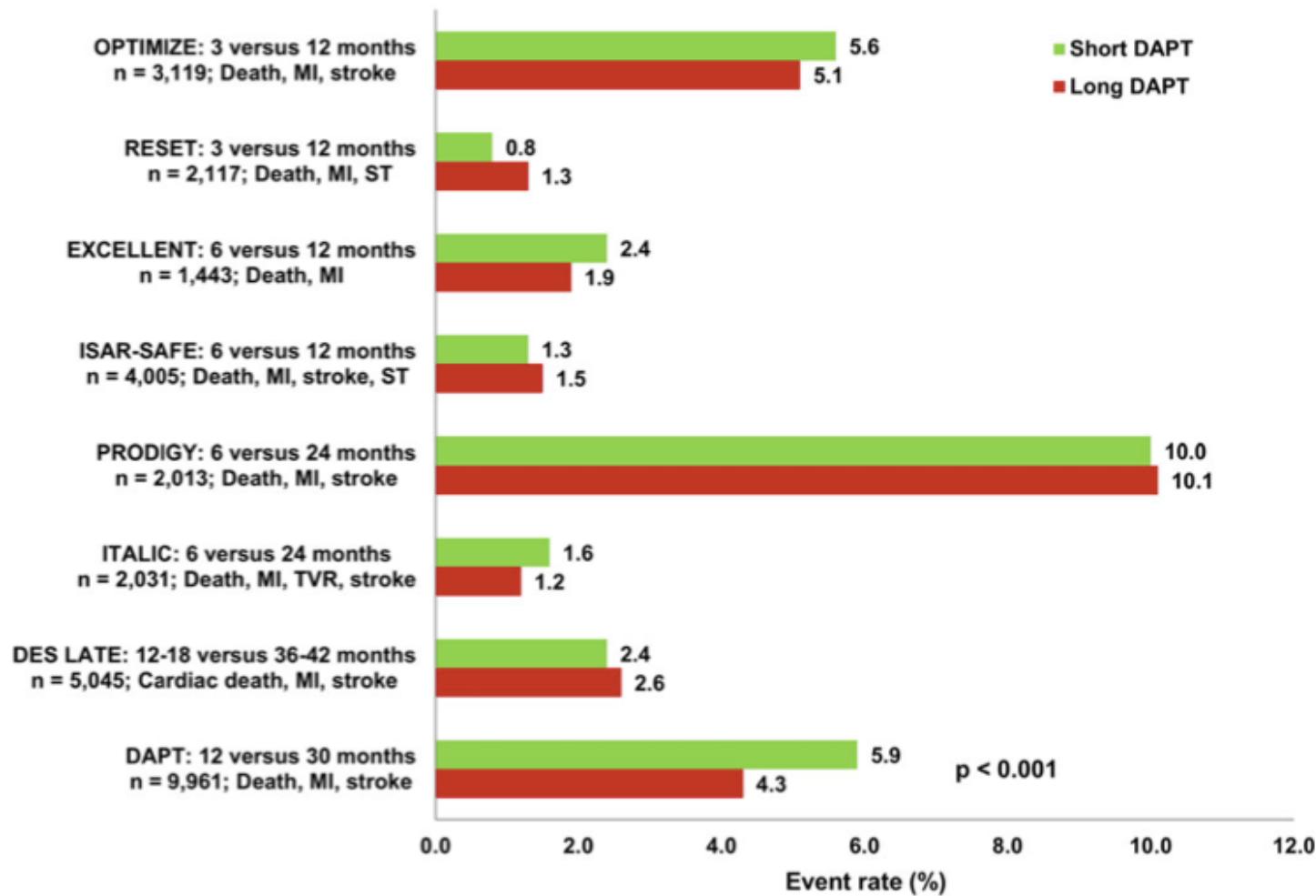


# Mortality with Extended Duration DAPT After DES: Meta-Analysis of 10 RCTs and 31,666 Pts

Yellow: sig ↓ w/short DAPT Orange: sig ↑ w/short DAPT	≤6-month vs 1-year DAPT HR (95% CrI)	6-month vs >1-year DAPT HR (95% CrI)	1-year vs >1-year DAPT HR (95% CrI)
All-cause death	0.95 (0.76-1.20)	0.78 (0.59-1.00)	0.82 (0.65-1.00)
- Cardiac	0.96 (0.68-1.40)	0.90 (0.62-1.30)	0.93 (0.69-1.20)
- Non-cardiac	1.00 (0.69-1.60)	0.65 (0.41-1.00)	0.61 (0.42-0.87)
Myocardial infarction	1.00 (0.75-1.30)	1.70 (1.30-2.40)	1.70 (1.40-2.10)
Def/prob stent thrombosis	1.10 (0.66-1.70)	2.70 (1.50-5.00)	2.50 (1.70-4.00)
Major bleeding	0.59 (0.36-0.95)	0.34 (0.20-0.55)	0.58 (0.45-0.74)



### MACCE and DAPT Duration





### Bleeding and DAPT Duration

