

Nuevas Estrategias de Reperfusión Miocárdica en el IAM con Elevación del Segmento ST

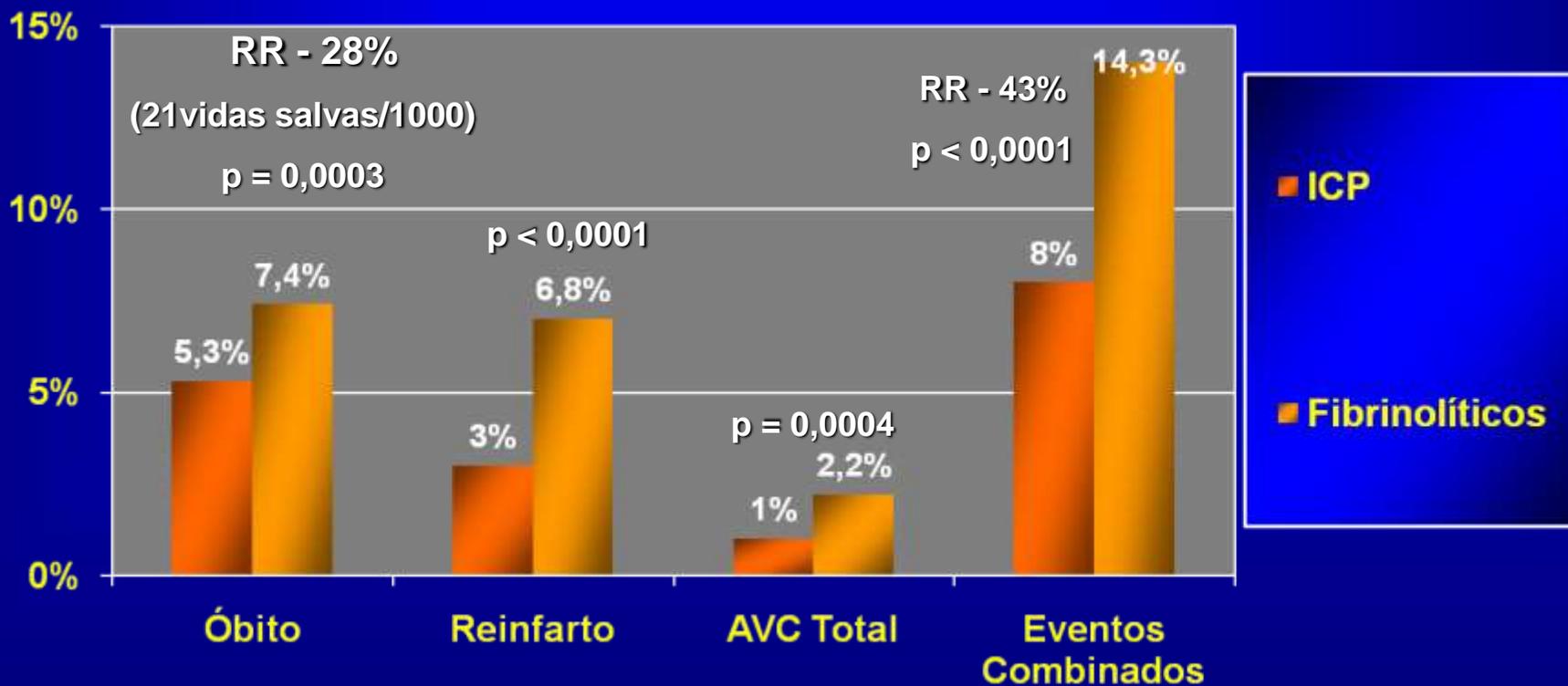


23 Estudios Randomizados

ICP Primaria vs Fibrinolíticos

n = 7.739

Resultados 30 días

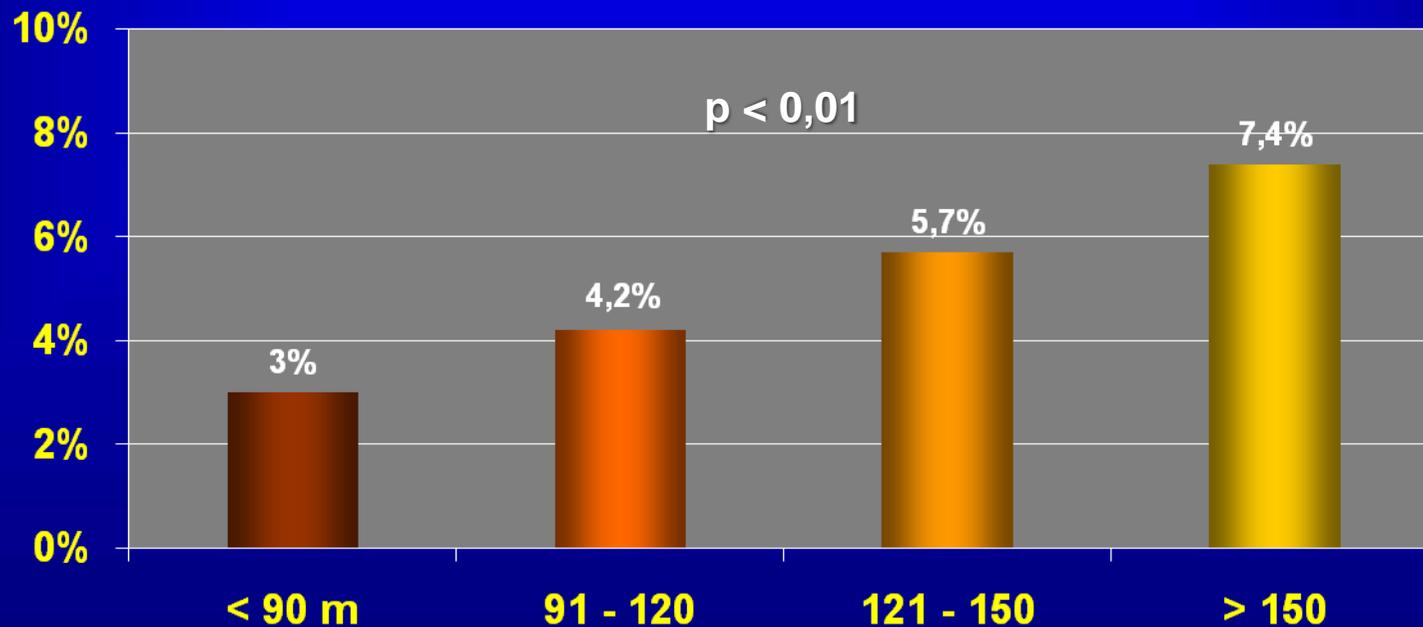


Mortalidad 30 días

Influencia del Retardo Puerta - Balón

Registro NRMI 3 – 4 (EUA)

1999 a 2006 n = 29.222 SCACST < 6 h → ICP



Puerta-balón > 90 m

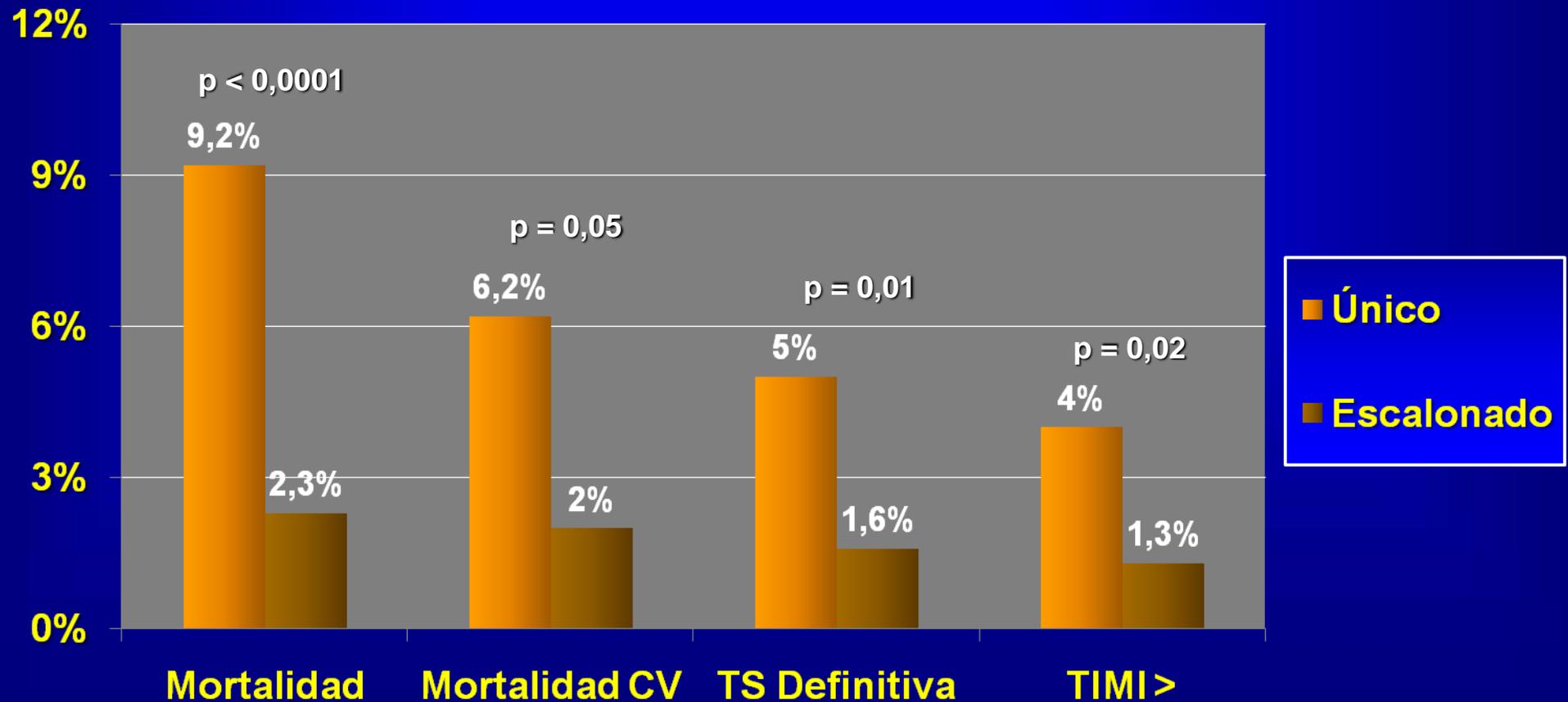
OR 1,42; 95% IC 1,24 to 1,62

McNamara RL. J Am Coll Cardiol 2006;47:2180-86

HORIZONS TRIAL

Procedimiento Único vs Escalonado

Multiarteriales n = 668 (18,5%) Resultados 1 año



Registro Estado de Nueva York

Mortalidad

n = 4.024 Enero/2003 a Junio/2006 ICP - IAM con ST Elevado \leq 24 h

Amuestras con Propensión de Semejanza

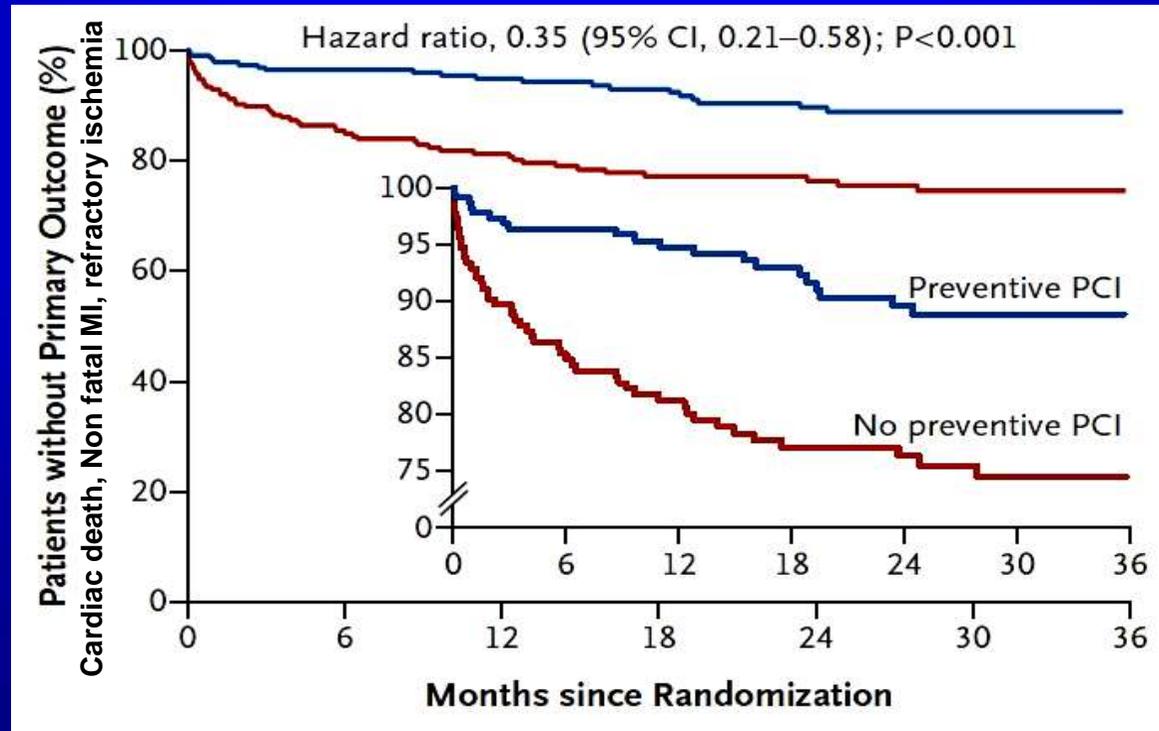
Mortalidad Excepto: Inestabilidad Hemodinámica, FE < 20%, Arritmia Ventricular Grave	Vaso Culpable n = 458	Multiarterial n = 458	p
Hospitalaria	0,9%	2,4%	0,04
12 m	4,2%	5,8%	0,13
24 m	4,9%	7,2%	0,07
42 m	6,7%	10,4%	0,08

PRAMI TRIAL

ICP Preventiva en el IAM

Estudio Randomizado 5 Centros Reino Unido 2008-2013

n = 465 → Multiarteriales (≥ 50% en otras arterias)



- No preventiva – ICP → angina refractaria con evidencia objetiva de isquemia
- Escalonada no recomendada
- Interrupción precoz

IMA con ST Elevado

Directrices

Procedural aspects of primary PCI

Primary PCI should be limited to the culprit vessel with the exception of cardiogenic shock and persistent ischaemia after PCI of the supposed culprit lesion.

Ila

B

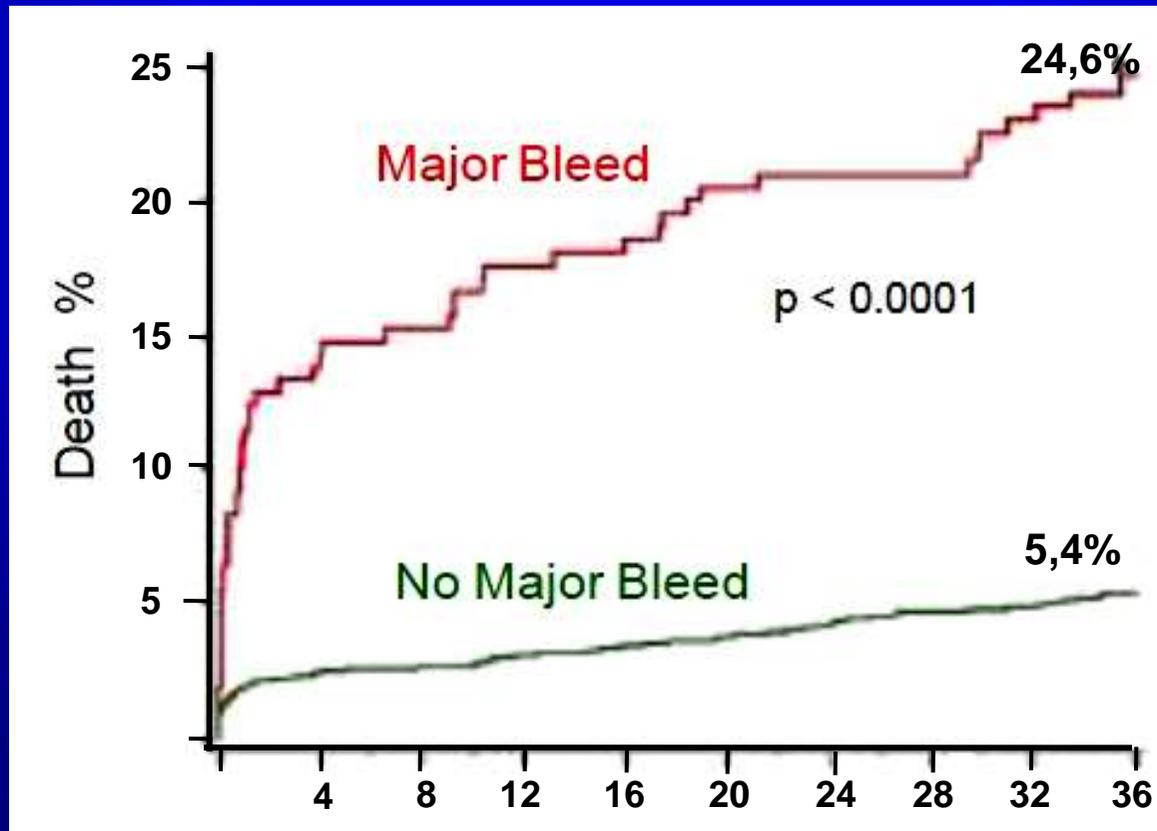
	COR	LOE
Ischemic symptoms <12 h	I	A
Ischemic symptoms <12 h and contraindications to fibrinolytic therapy irrespective of time delay from FMC	I	B
Cardiogenic shock or acute severe HF irrespective of time delay from MI onset	I	B
Evidence of ongoing ischemia 12 to 24 h after symptom onset	Ila	B
PCI of a noninfarct artery at the time of primary PCI in patients without hemodynamic compromise	III: Harm	B

Sangrados > Hospitalización

Mortalidad

HORIZONS AMI TRIAL (HNF + IGP IIb/IIIa vs Bivalirudina)

n = 3.602 STEMI ≤ 12 h ICP Primária

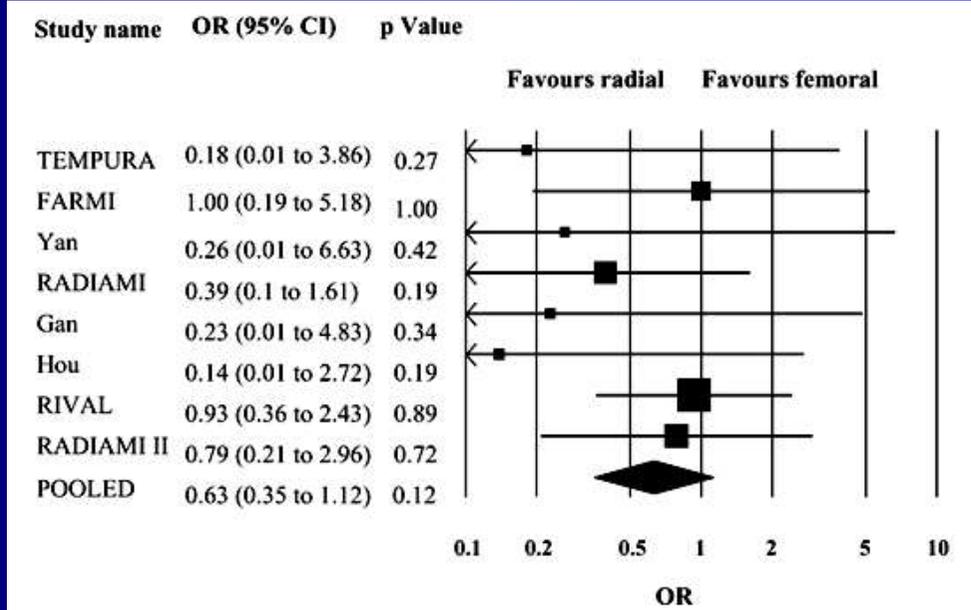


Radial vs Femoral

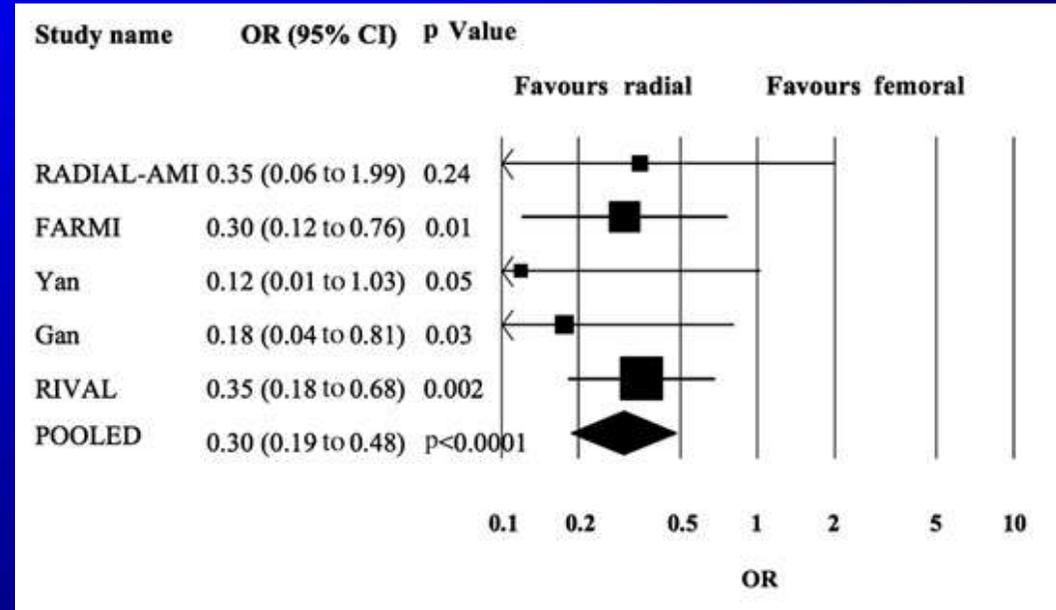
Complicaciones Vasculares/Sangrados >

8 Estudios Randomizados
2003 a 2011

ICP IAM con ST Elevado
n = 2.977



Sangrados >



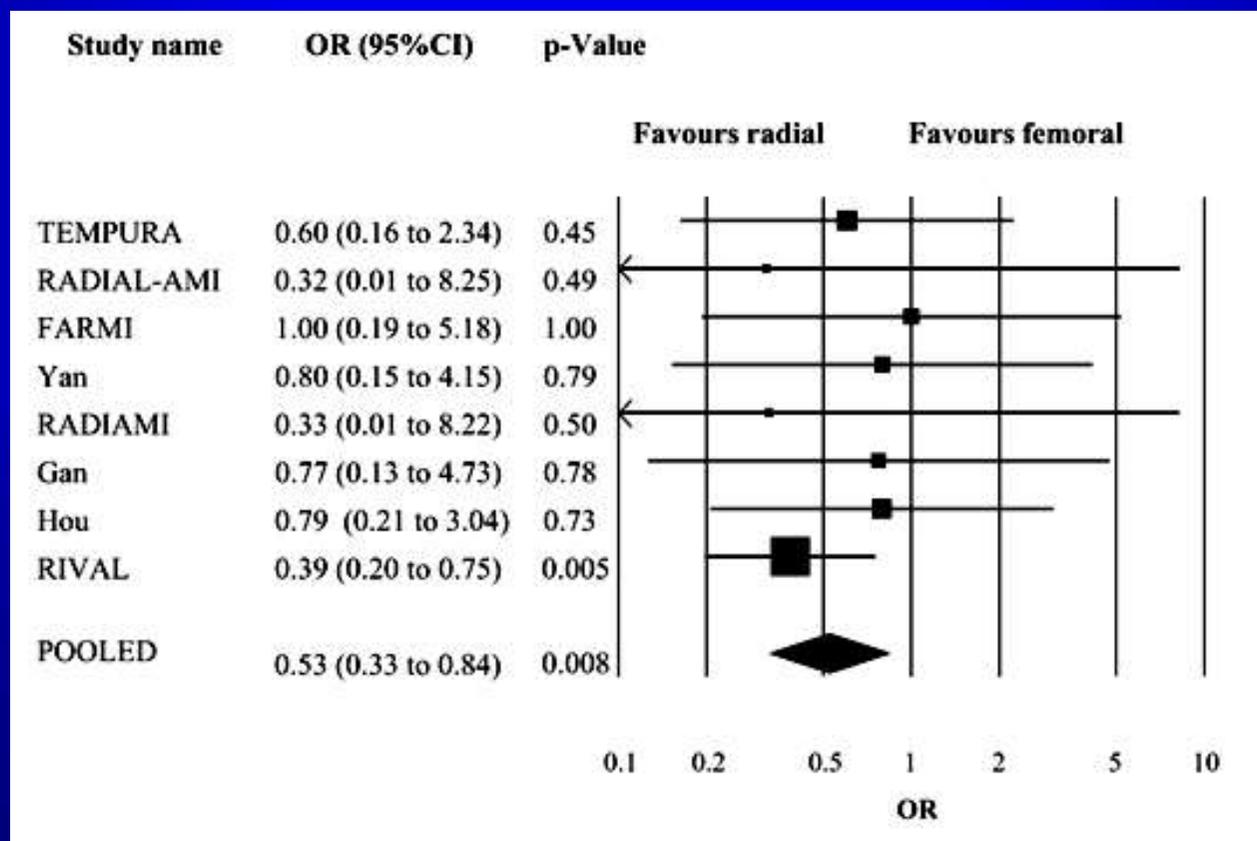
Complicaciones Vasculares

Mortalidad

Radial vs Femoral

9 Estudios Randomizados
2003 a 2011

ICP IAM con ST Elevado
n = 2.977

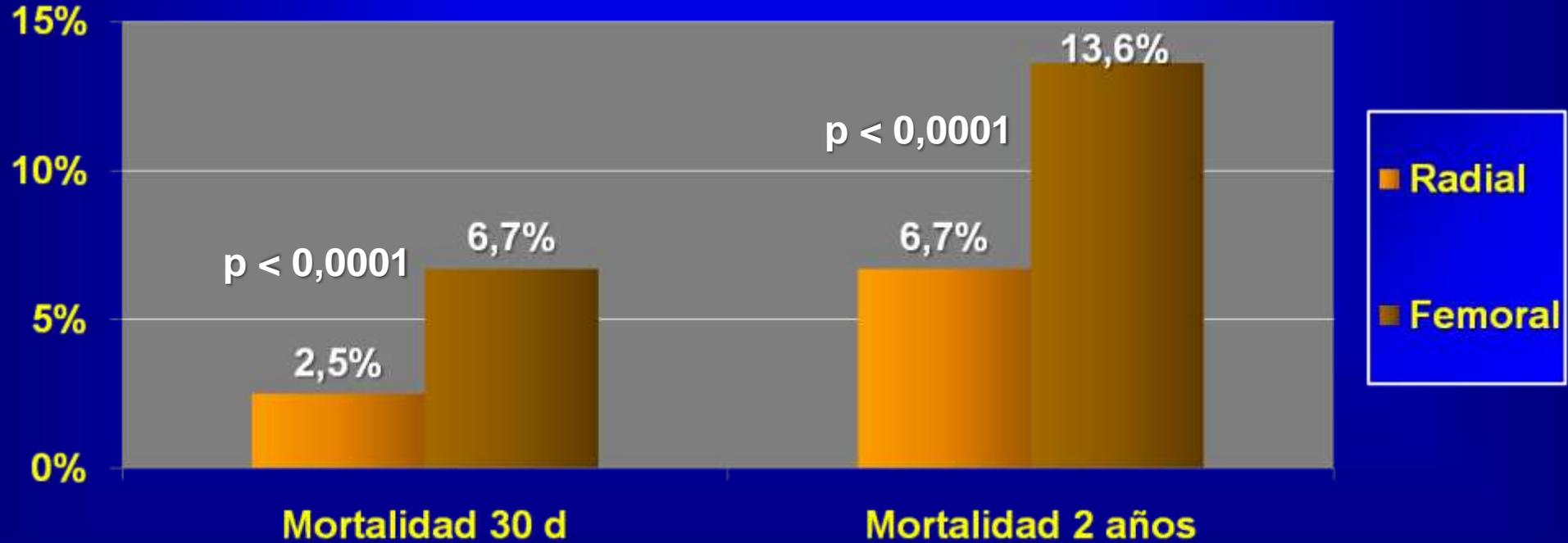


Radial vs Femoral

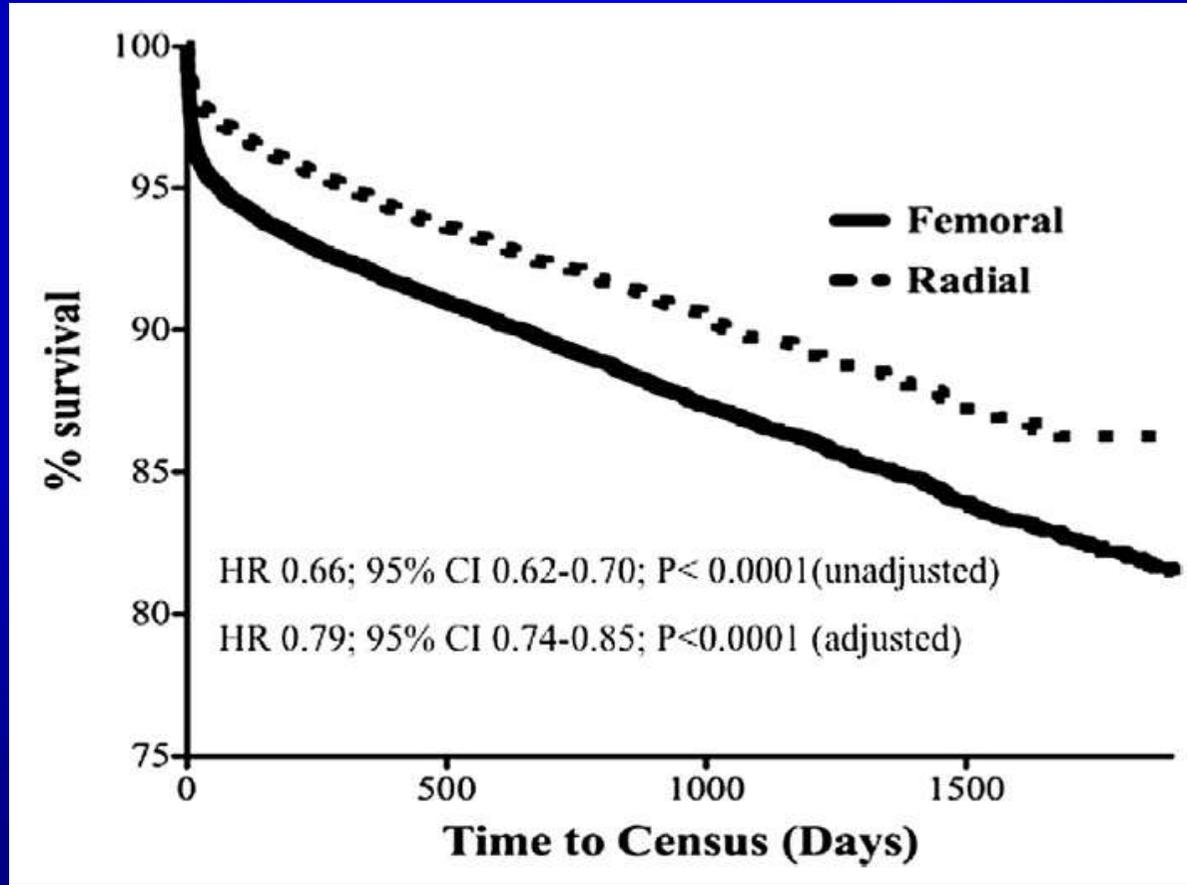
Práctica Clínica

2006 a 2010 Reino Unido n = 46.128 ICP IAM

Femoral n = 28.091 (60,9%) **Radial** n = 18.037 (39,1%)



Radial vs Femoral *Supervivencia*



TAPAS TRIAL

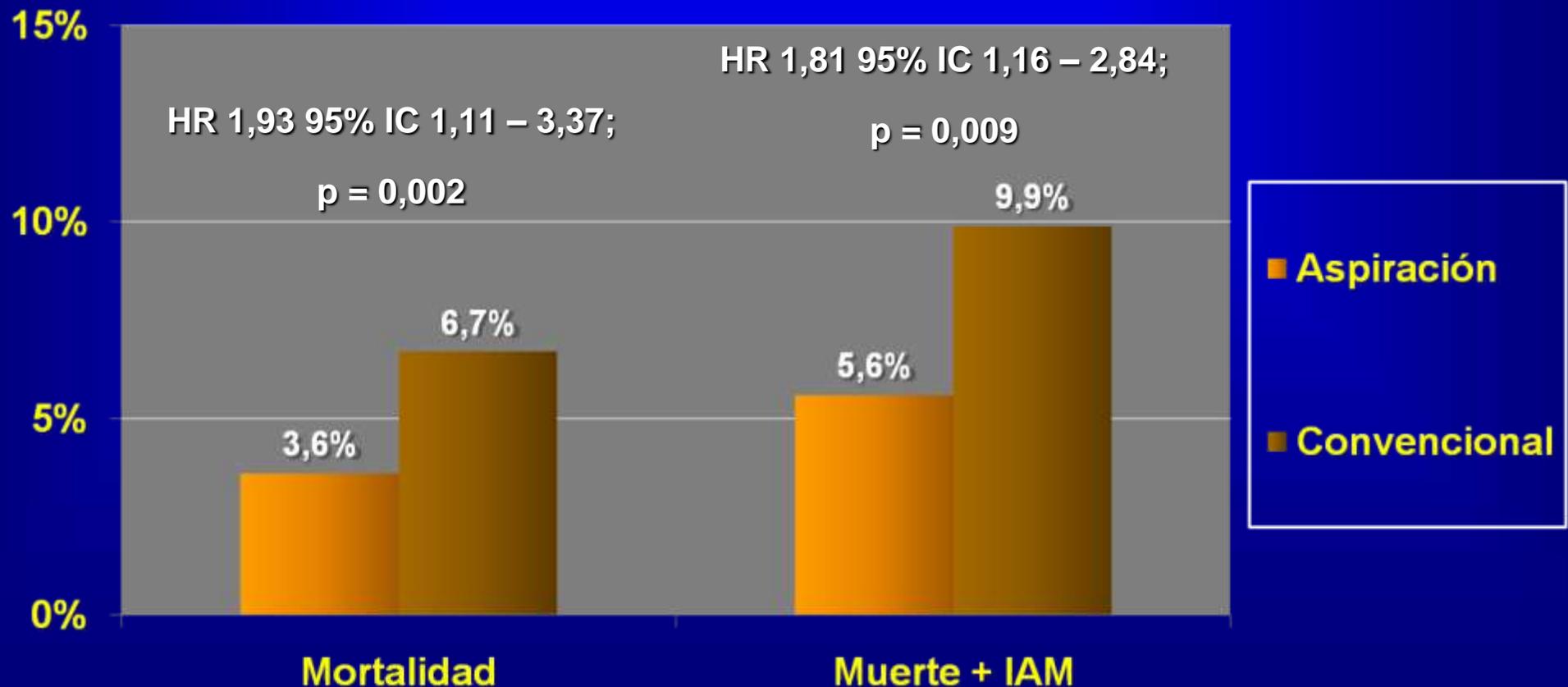
Resultados 1 año

Export®

n = 1.701 IAM c/ Supra ST

Enero/2005 a Diciembre/2006

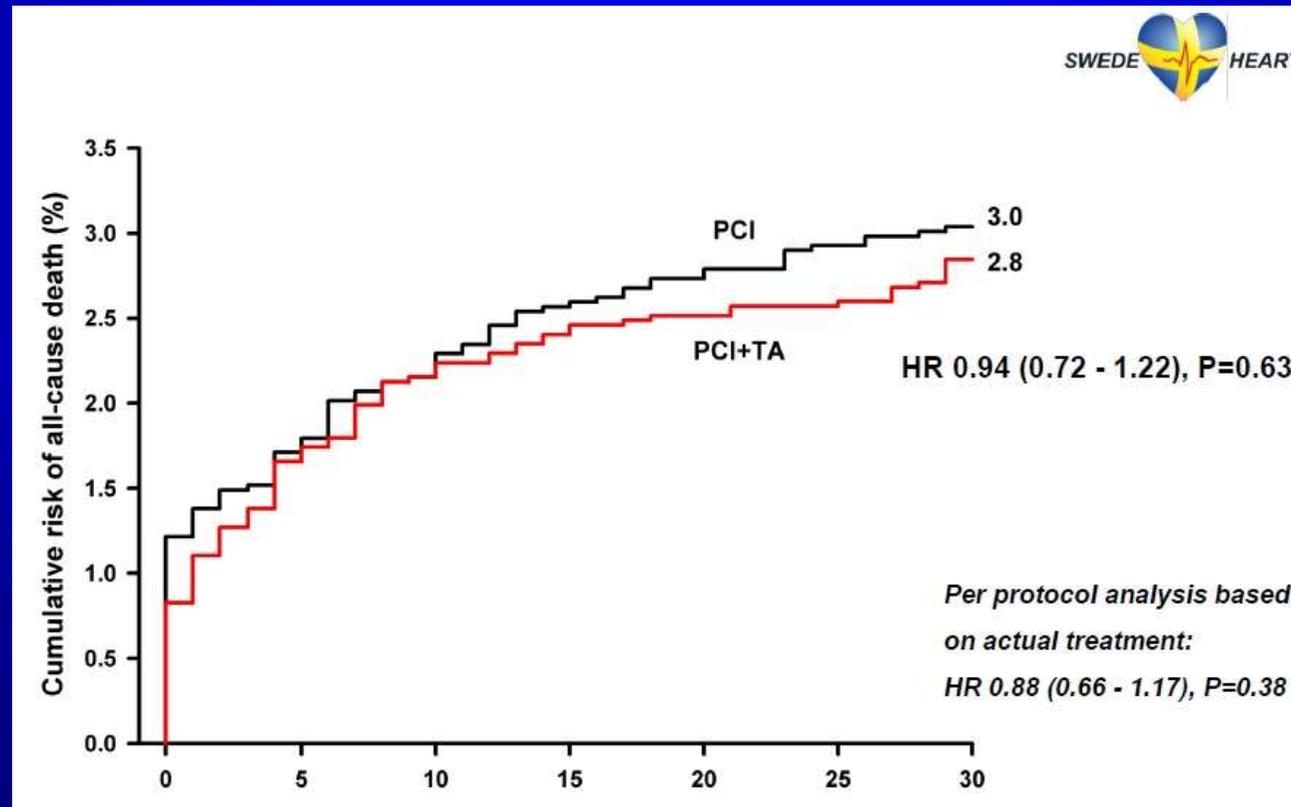
Universidad Groningen/Holanda



TASTE TRIAL

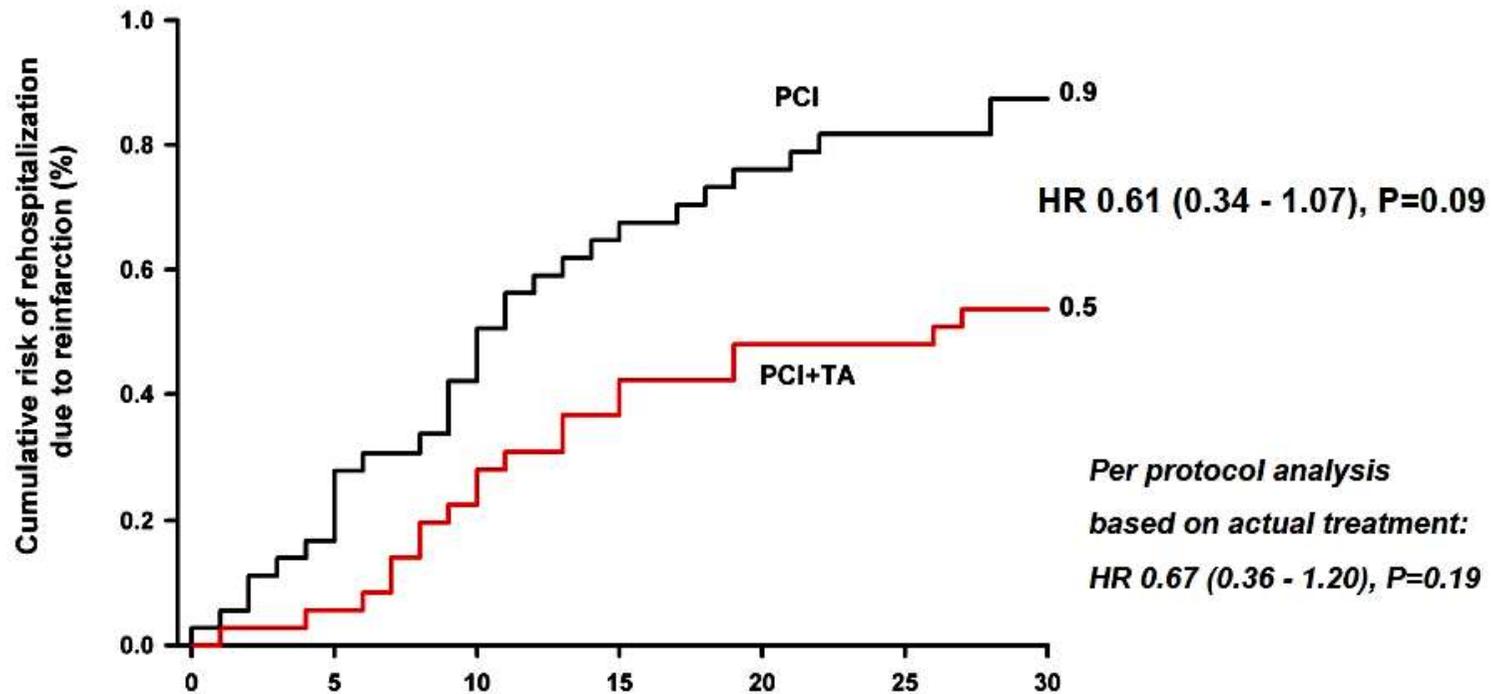
Mortalidad – 30 días

n = 7.244 31 Centros Escandinavía STEMI < 24 h
Aspiración Manual



TASTE TRIAL

Reinfarto – 30 días



Trombosis del Stent – ICP 0,5% vs ICP + TA 0,2% - p = 0,06

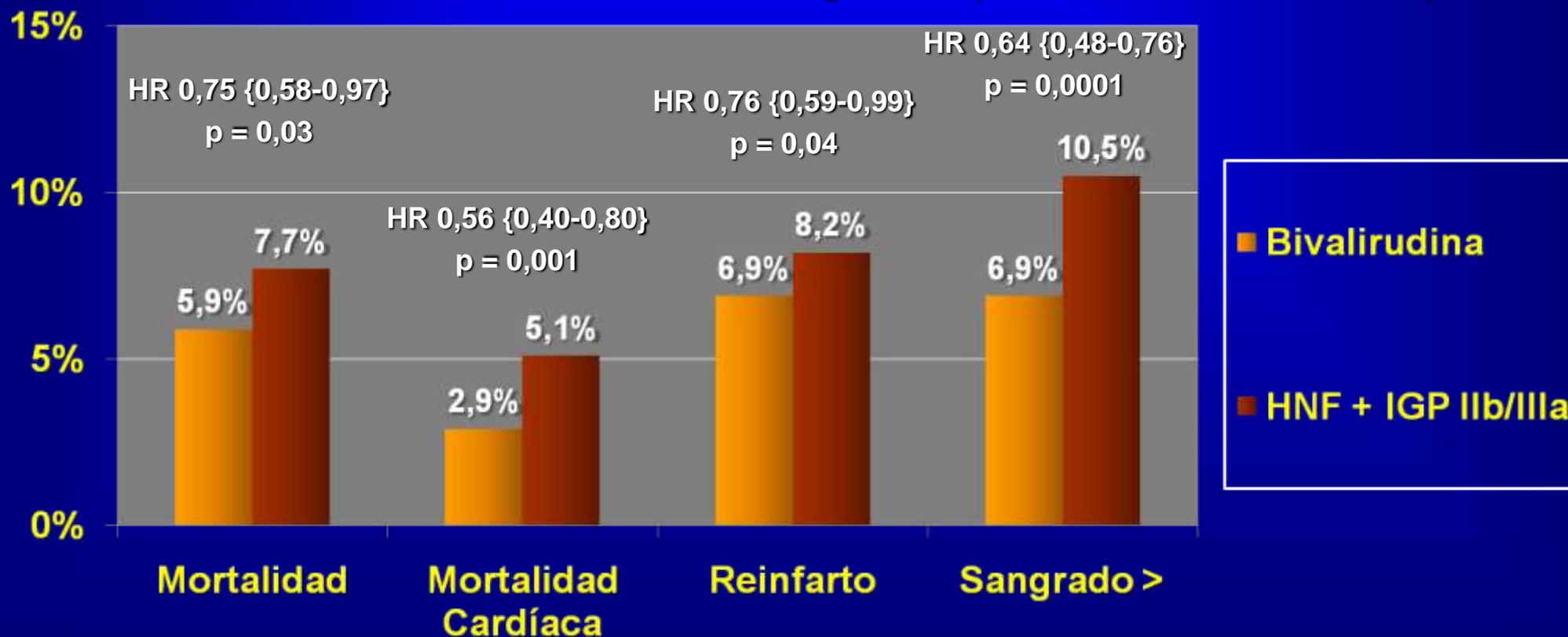
Frobert O. N Engl J Med 2013;369:1587-1597

HORIZONS TRIAL

Resultados 3 años

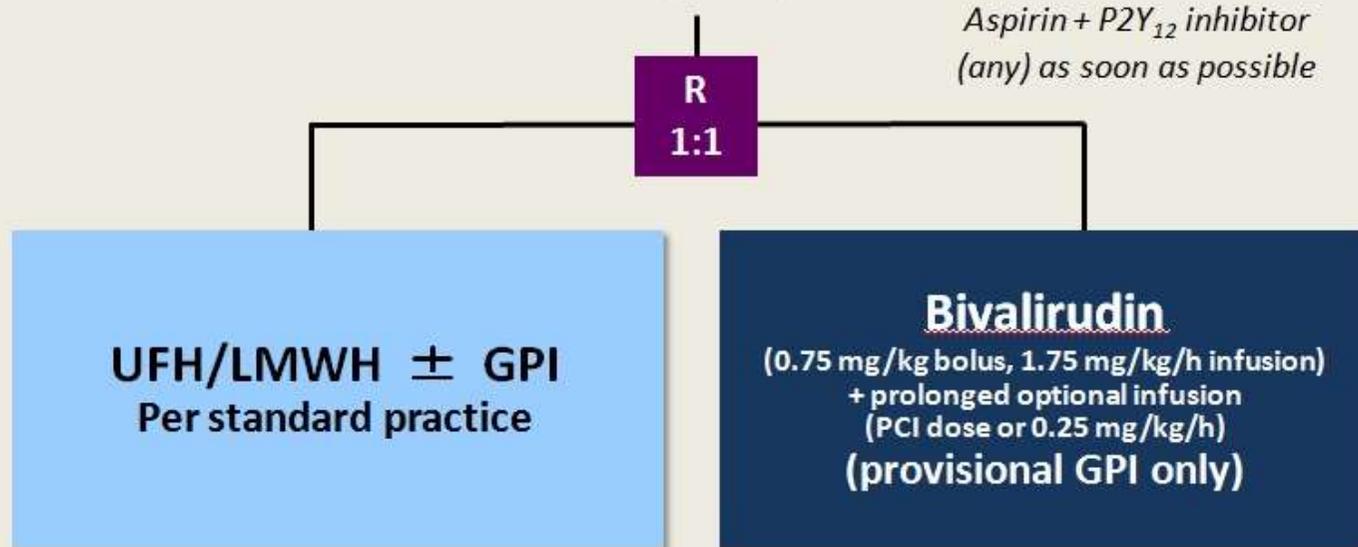
n = 3.602 123 centros

IAM c/ ST \leq 12h \rightarrow Coronariografía (83% ICP con Stent)



EUROMAX Trial Design

2218 patients with STEMI with symptom onset >20 min and ≤12h
Randomized in ambulance or non-PCI hospital
Intent for primary PCI



Primary endpoint: 30-day death or non-CABG related major bleeding

Key Secondary endpoint: Death, Re-infarction or non-CABG major bleeding at 30 days

Clinical FU at 30 days and 1 year

IGP

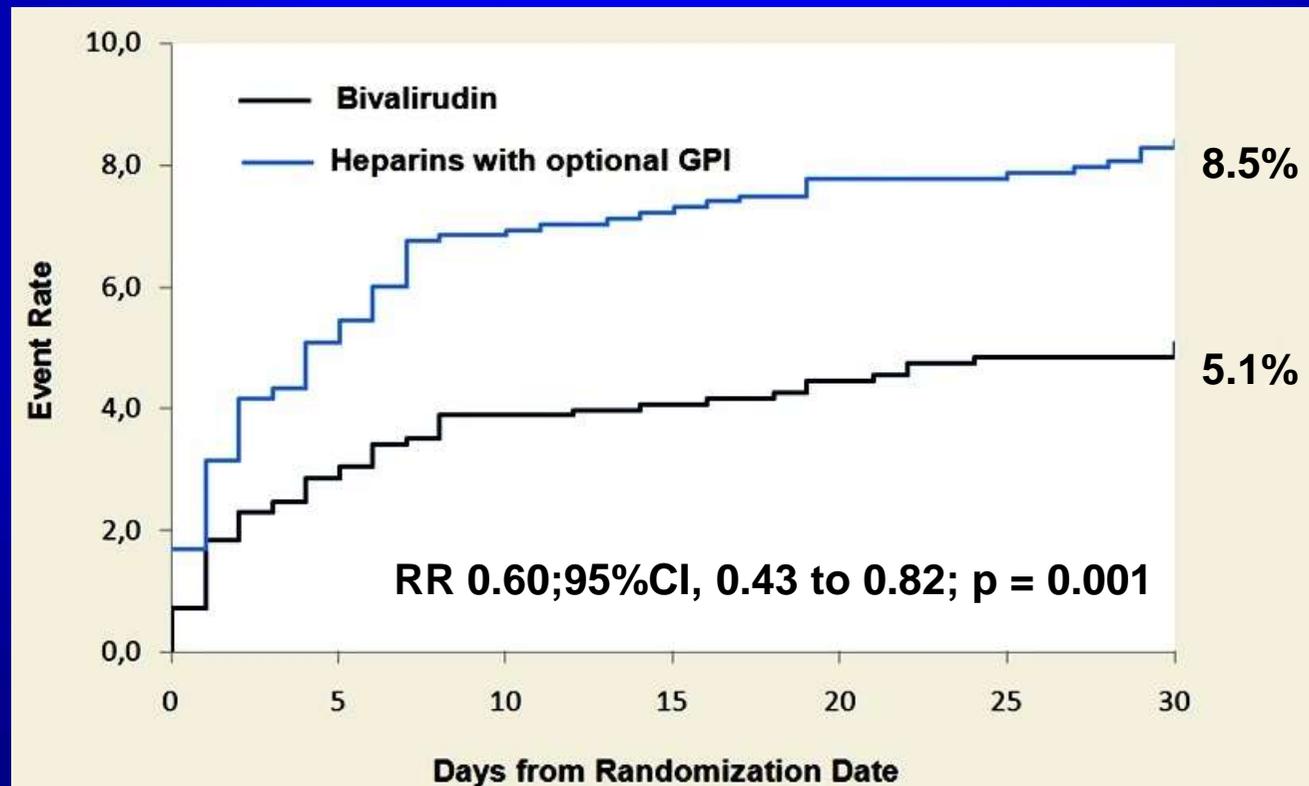
Bivalirudina (11,5%) vs Heparina (69,1%)

Steg P.G. N Engl J Med 2013;369:2207-2217

Euromax Trial

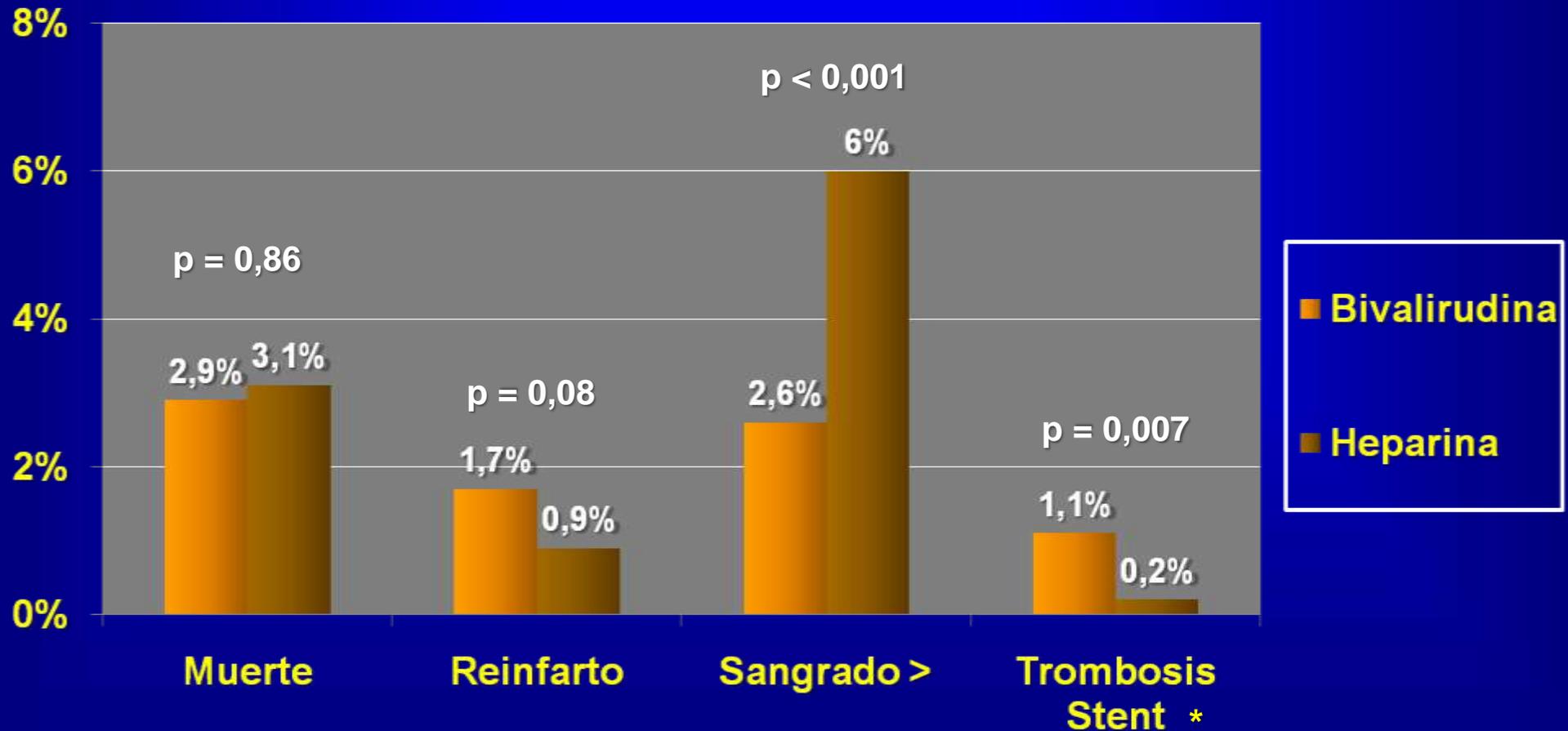
Muerte o Sangrado > - 30 días

Endpoint Primario



Euromax Trial

Complicaciones- 30 días



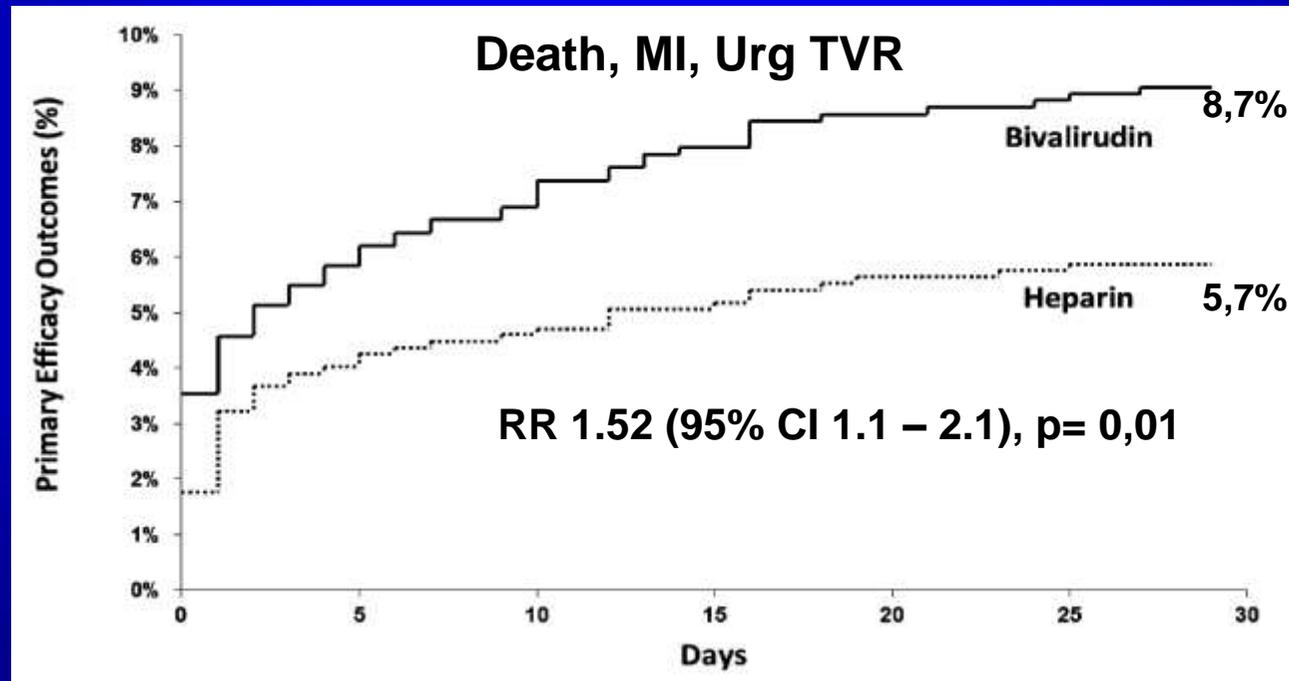
* definitiva

HEAT PPCI

Endpoint Primário Eficácia

n = 1.812 STEMI → PCI Centro Único – Liverpool Heart and Chest Hospital

IGP “Bail – Out” Bivalirudina – 13,5% vs Heparina – 15,5%



Trombosis Stent

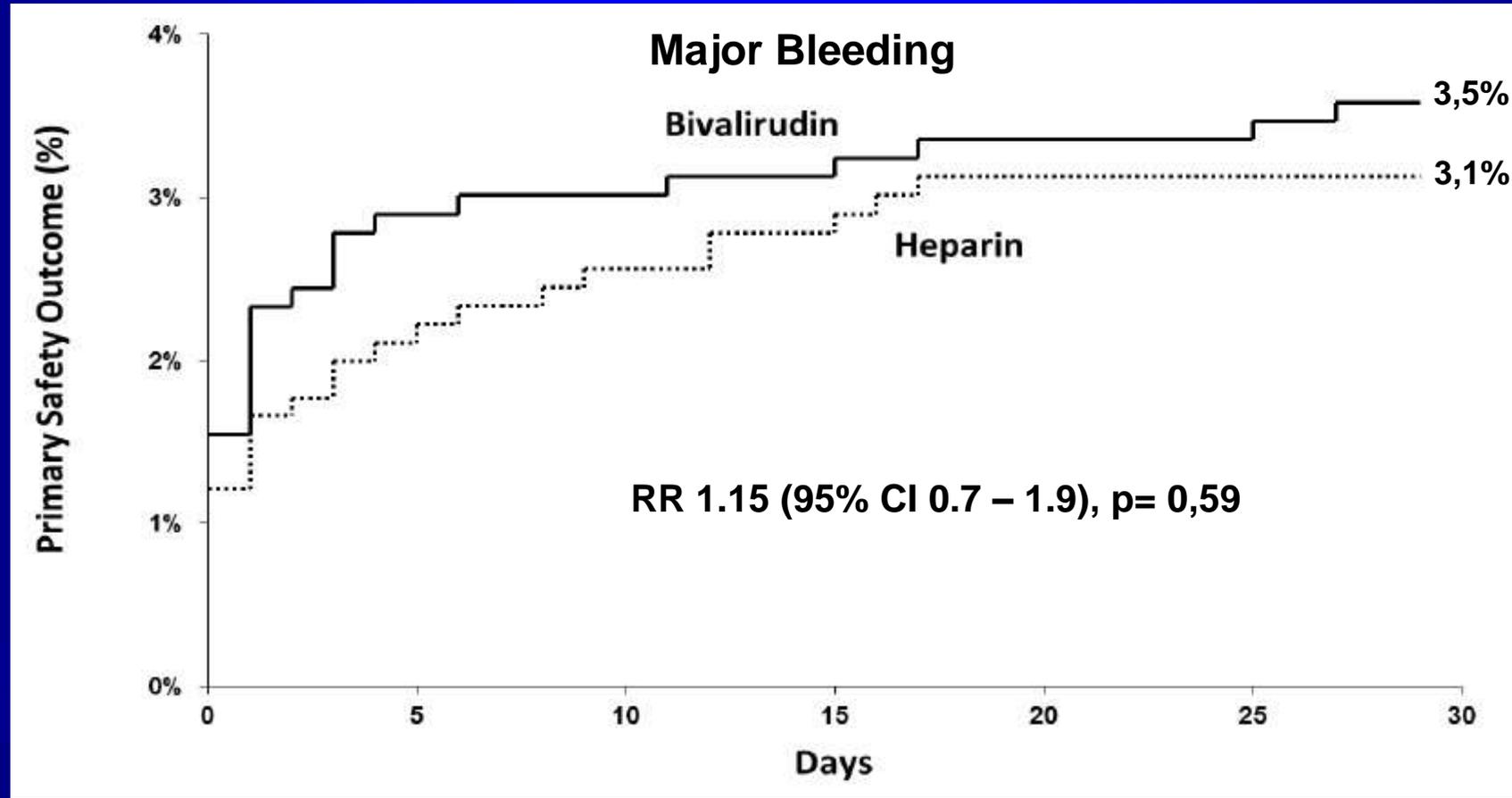
Bivalirudina – 3,4% vs Heparina – 0,9%

RR 3,91 (95% CI 1,6 – 9,5, p = 0,001)

Shahzad A. Lancet 2014 ahead of print

HEAT PPCI

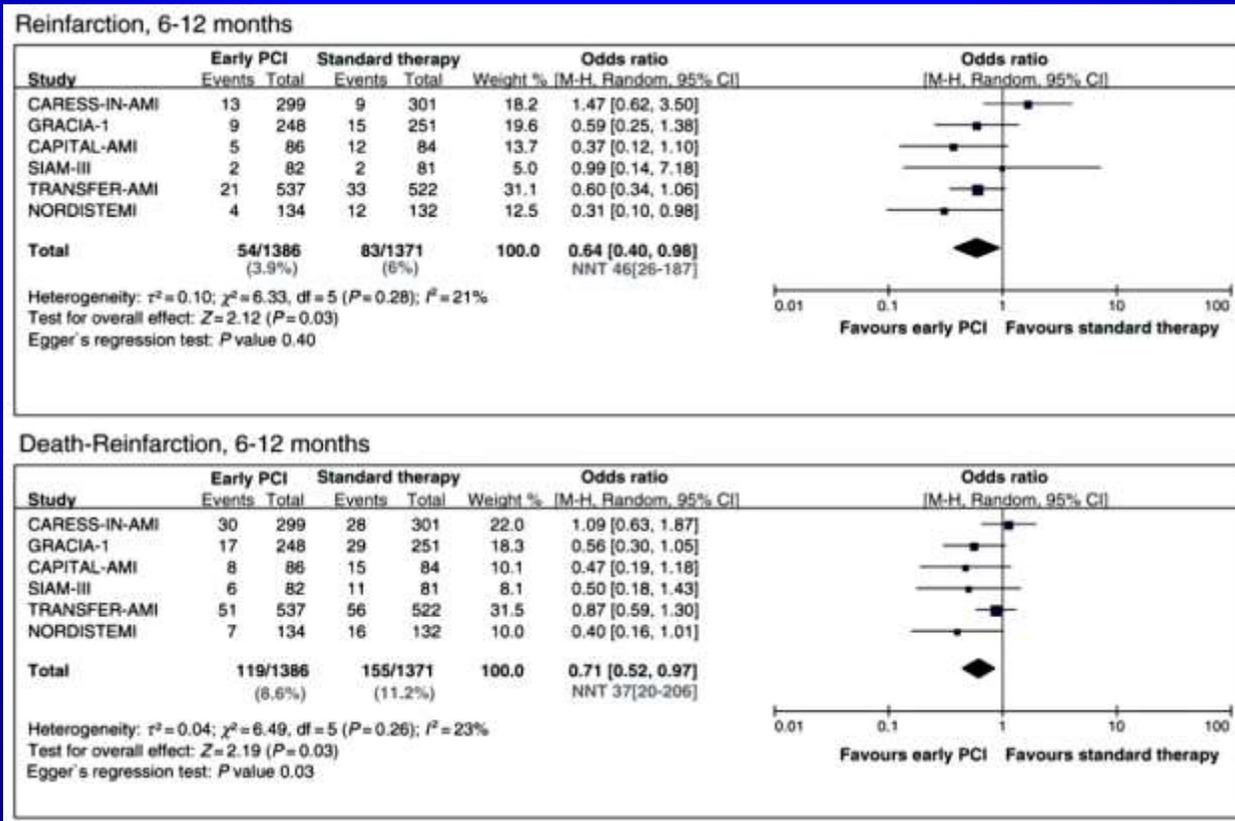
Desfecho Primário Segurança



IAM Pós Trombólisis

Angiografía Precoz vs Terapia Convencional

Meta-análisis 7 Trials n = 2.961



Sangrado > 30 d

OR:0.93, 96% CI:0.67 – 1.34, p = 0,70

Borgia F. Eur Heart J 2010;31:2156-63

IAM com Supra de ST

Stents Farmacológicos vs No Farmacológicos

n = 6.026

Seguimiento Clínico 3 a 5 anos

DEATH	DES	BMS	OR [95%CI]	P
DEDICATION	10.5%	6.4%	1.73 [0.97, 3.08]	0.06
PASEO	8.3%	12.2%	0.65 [0.29, 1.49]	0.31
STRATEGY	18.4%	15.9%	1.19 [0.54, 2.62]	0.66
SESAMI	3.2%	5.0%	0.61 [0.20, 1.92]	0.40
MISSION	4.4%	6.6%	0.69 [0.25, 1.85]	0.46
TYPHOON	4.0%	6.6%	0.61 [0.27, 1.36]	0.23
PASSION	8.9%	11.5%	0.75 [0.45, 1.27]	0.29
HORIZONS-AMI	5.6%	6.6%	0.84 [0.60-1.17]	0.33
META-ANALYSIS			0.88 [0.68-1.11]	0.27

Stent thrombosis	DES	BMS	OR [95%CI]	P
DEDICATION	2.9%	3.2%	0.90 [0.36, 2.24]	0.82
PASEO	1.1%	2.2%	0.49 [0.07, 3.57]	0.48
STRATEGY	6.9%	7.9%	0.86 [0.28, 2.66]	0.79
SESAMI	5.1%	5.1%	1.00 [0.37, 2.73]	1.00
MISSION	3.1%	2.0%	1.69 [0.40, 7.20]	0.48
TYPHOON	5.3%	5.5%	0.90 [0.42, 2.00]	0.83
PASSION	4.2%	3.4%	1.19 [0.52, 2.69]	0.68
HORIZONS-AMI	5.1%	4.4%	1.15 [0.77-1.72]	0.50
META-ANALYSIS			1.06 [0.81-1.39]	0.67

IAM com Supra de ST

Stents Farmacológicos vs No Farmacológicos

n = 6.026

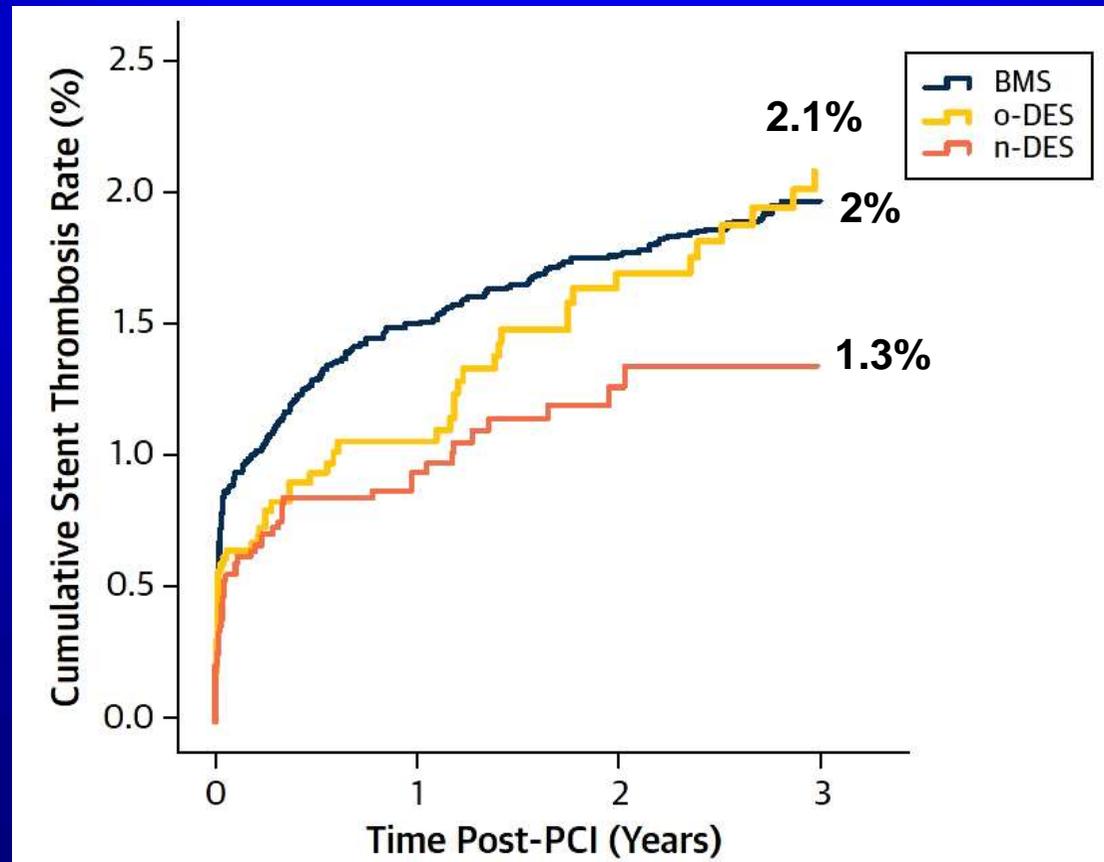
Seguimiento Clínico 3 a 5 años

TVR	DES	BMS	OR [95%CI]	P
DEDICATION	8.9%	19.8%	0.40 [0.25, 0.64]	<0.01
PASEO	6.1%	21.1%	0.24 [0.11, 0.54]	<0.01
STRATEGY	10.3%	26.1%	0.33 [0.14, 0.75]	0.01
SESAMI	8.3%	16.0%	0.46 [0.23, 0.92]	0.03
MISSION	8.9%	15.8%	0.54 [0.27, 1.09]	0.09
TYPHOON	11.9%	21.5%	0.49 [0.30, 0.80]	<0.01
PASSION	7.7%	10.5%	0.73 [0.42, 1.26]	0.26
HORIZONS-AMI	12.5%	17.7%	0.67 [0.53-0.84]	0.001
META-ANALYSIS			0.50 [0.40-0.64]	<0.001

IAM com Supra de ST

Registro SCARR

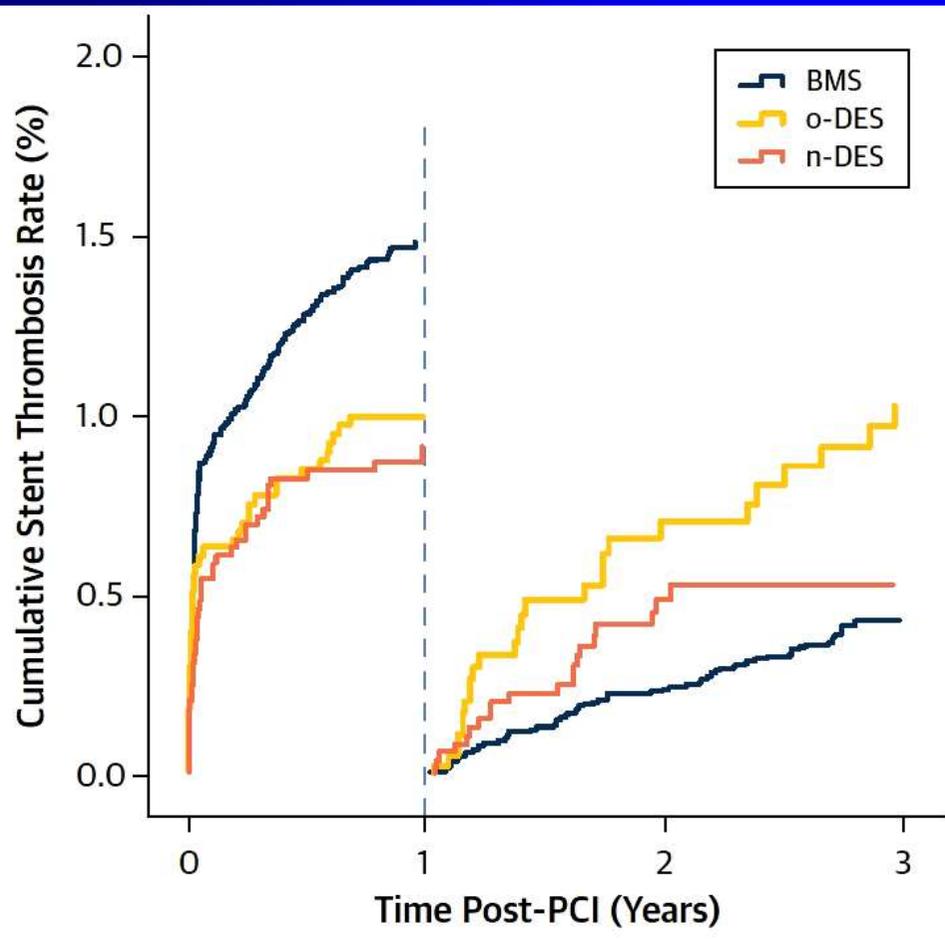
Jan/2007 a Jan/2013 n = 34.143 SF 1ª geração (n = 4.271)
SF 2ª geração (n = 4.811) BMS (n = 25.065)



IAM com Supra de ST

Registro SCARR – Landmark Analysis

Análise de regressão de Cox ajustada pelo score de propensão



Trombose Muito Tardia

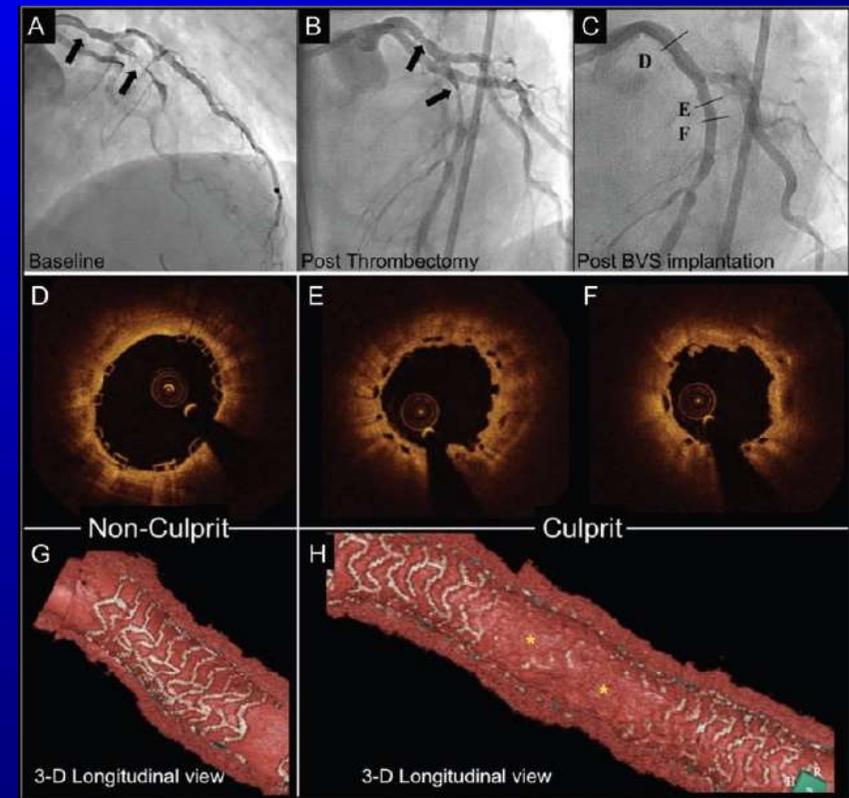
1ª geração vs BMS – HR 2.28;95%CI:1.70-4.89;p<0.01

2ª geração vs BMS – HR 1.52;95%CI:0.78-2.98;p=0.21

Soporte Vascular Bioabsorbible (BVS) STEMI

Thoraxcenter – Erasmus University

Clinical events	30 days	N = 49	95% CI
Target-lesion failure		(0/49) 0%	(0–7.41)
TVF		(0/49) 0%	(0–7.41)
Cardiac death		(0/49) 0%	(0–7.41)
Target-vessel MI		(0/49) 0%	(0–7.41)
Q-wave MI		(0/49) 0%	(0–7.41)
Non Q-wave MI		(0/49) 0%	(0–7.41)
Clinically driven target-vessel revascularization		(0/49) 0%	(0–7.41)
Any MI		(1/49) 2.6%	(0–10.69)
Q-wave MI		(0/49) 0%	(0–7.41)
Non Q-wave MI		(1/49) 2.6%	(0–10.69)
Major adverse cardiac events		(1/49) 2.6%	(0–10.69)
Non-target-vessel revascularization		(1/49) 2.6%	(0–10.69)
Definite or probable scaffold thrombosis		(0/49) 0%	(0–7.41)



Soporte Vascular Bioabsorbible (BVS) Prague 19

Diciembre/2012 – Agosto /2013 STEMI

