



2013

SCA :



*Doit on encore donner des anti
agrégant plaquettaires per os
avant l'hôpital ?*



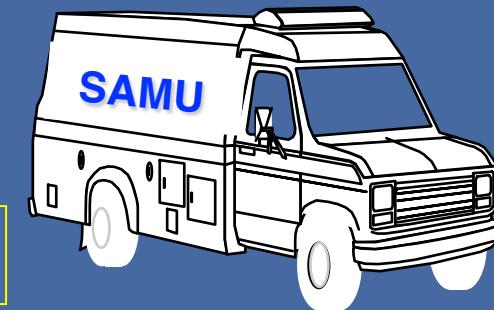
Patrick Ecollan
DAR-SMUR Pitié-Salpêtrière
SAMU de PARIS

Research Grants to the Institution or Consulting/Lecture/CME Fees from
Astra-Zeneca, Abbott, Boehringer-Ingelheim, Daiichi-Sankyo, Iroko, Sanofi-Aventis,
Radiometer, Biomérieux, SFMU, ADRMU, CFRCP, Société Française de Cardiologie,
ma mère!.

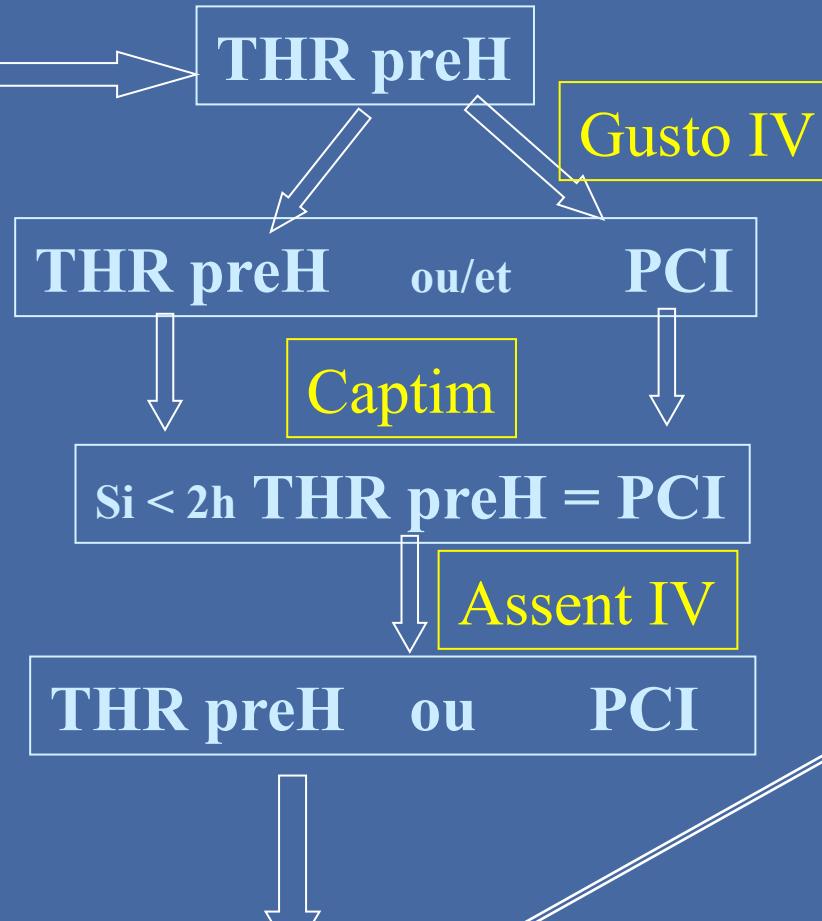
On n'aime pas en SMUR !



Le traitement SAMU dans le SCA



THR
1985



Isis 2
Delucas
Admiral
Create
Commit
Ex Timi 25
Finesse
On Time 2
Triton Timi 38
Atoll
Accoast
Atlantic.....

2012

PCI facilité préH

= 3 injections + 1 perfusion continue

- de 1 à 6 cp

Traitement adjuvant pré hospitalier

Quel médicament utiliser?
Quand le donner?

Dépend du couple cardiologue /urgentiste

Inhibition plaquettaire

Risque hémorragique

Risque ischémique



Bénéficier de l'efficacité supérieure en limitant les risques

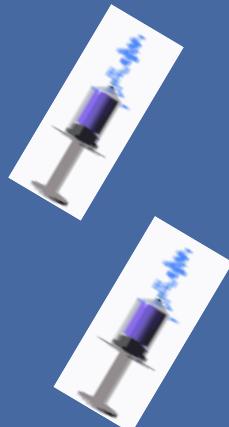


Identifier les patients plus ou moins bon candidats

Traitement adjuvant pré hospitalier



- Aspirine
- Héparine
- Inhibiteur P2Y12
- Sous certaines conditions AGp2b3a (SCA ST+ <3h)



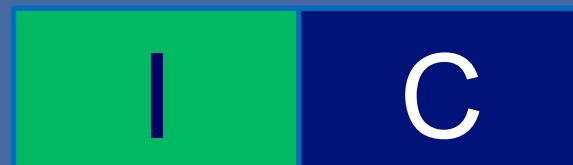


New P2Y₁₂ inhibitors

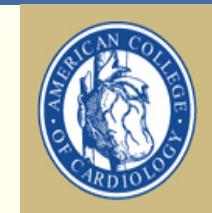
Recommendations	Class ^a	Level ^b
Aspirin should be given to all patients without contraindications at an initial loading dose of 150–300 mg, and at a maintenance dose of 75–100 mg daily long-term regardless of treatment strategy.	I	A
A P2Y ₁₂ inhibitor should be added to aspirin as soon as possible and maintained over 12 months, unless there are contraindications such as excessive risk of bleeding.	I	A
Prolonged or permanent withdrawal of P2Y ₁₂ inhibitors within 12 months after the index event is discouraged unless clinically indicated.	I	C
Ticagrelor (180-mg loading dose, 90 mg twice daily) is recommended for all patients at moderate-to-high risk of ischaemic events (e.g. elevated troponins), regardless of initial treatment strategy and including those pre-treated with clopidogrel (which should be discontinued when ticagrelor is commenced).	I	B
Prasugrel (60-mg loading dose, 10-mg daily dose) is recommended for P2Y ₁₂ -inhibitor-naïve patients (especially diabetics) in whom coronary anatomy is known and who are proceeding to PCI unless there is a high risk of life-threatening bleeding or other contraindications. ^d	I	B
Clopidogrel (300-mg loading dose, 75-mg daily dose) is recommended for patients who cannot receive ticagrelor or prasugrel.	I	A
A 600-mg loading dose of clopidogrel (or a supplementary 300-mg dose at PCI following an initial 300-mg loading dose) is recommended for patients scheduled for an invasive strategy when ticagrelor or prasugrel is not an option.	I	B

pré-traitement dans le SCA non ST+

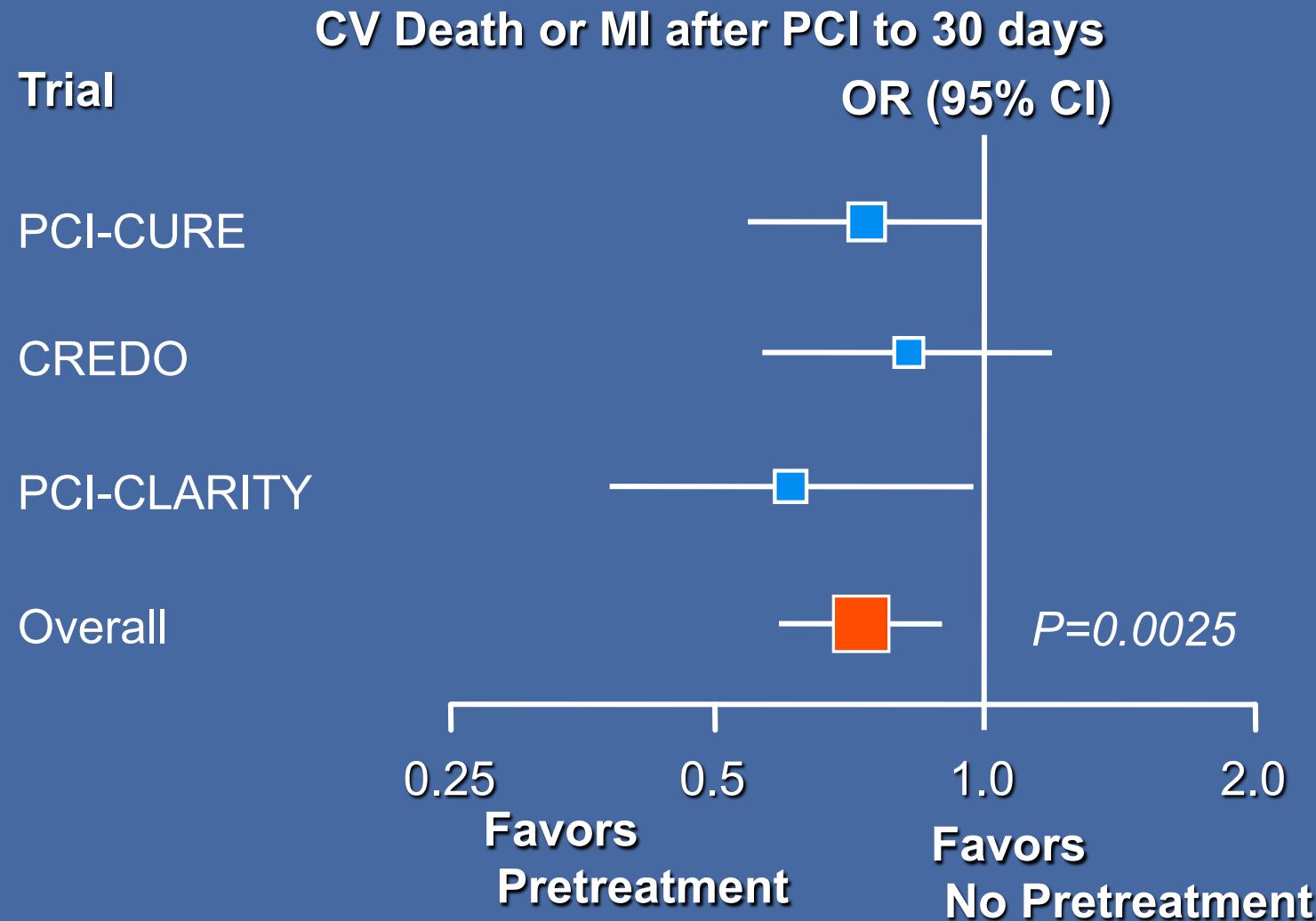
P2 Y12



ACC/AHA 2007 Guidelines for the Management of
Patients With Unstable Angina/Non-ST-Elevation
Myocardial Infarction

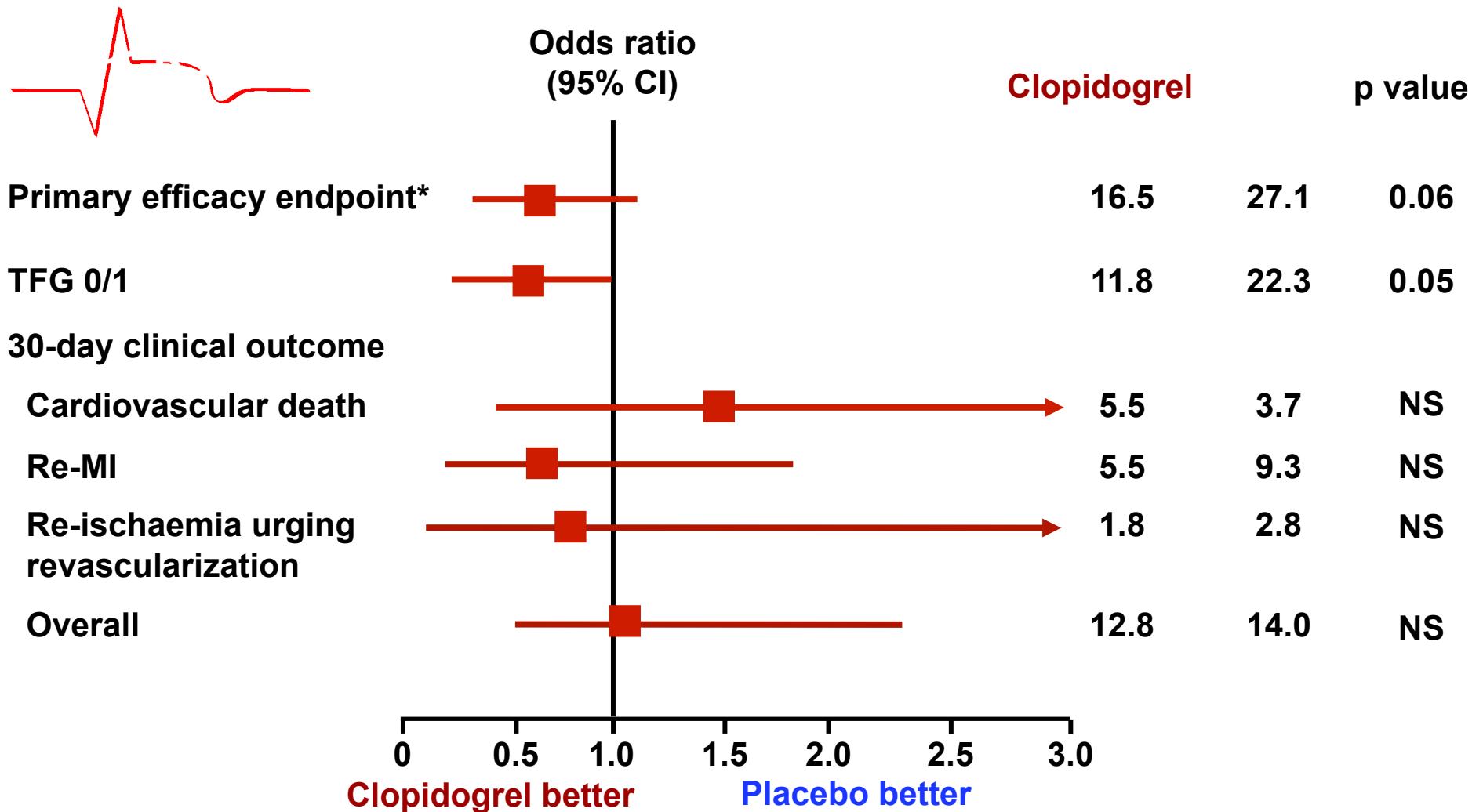


PCI Pre-Treatment (With 300mg load) → Events



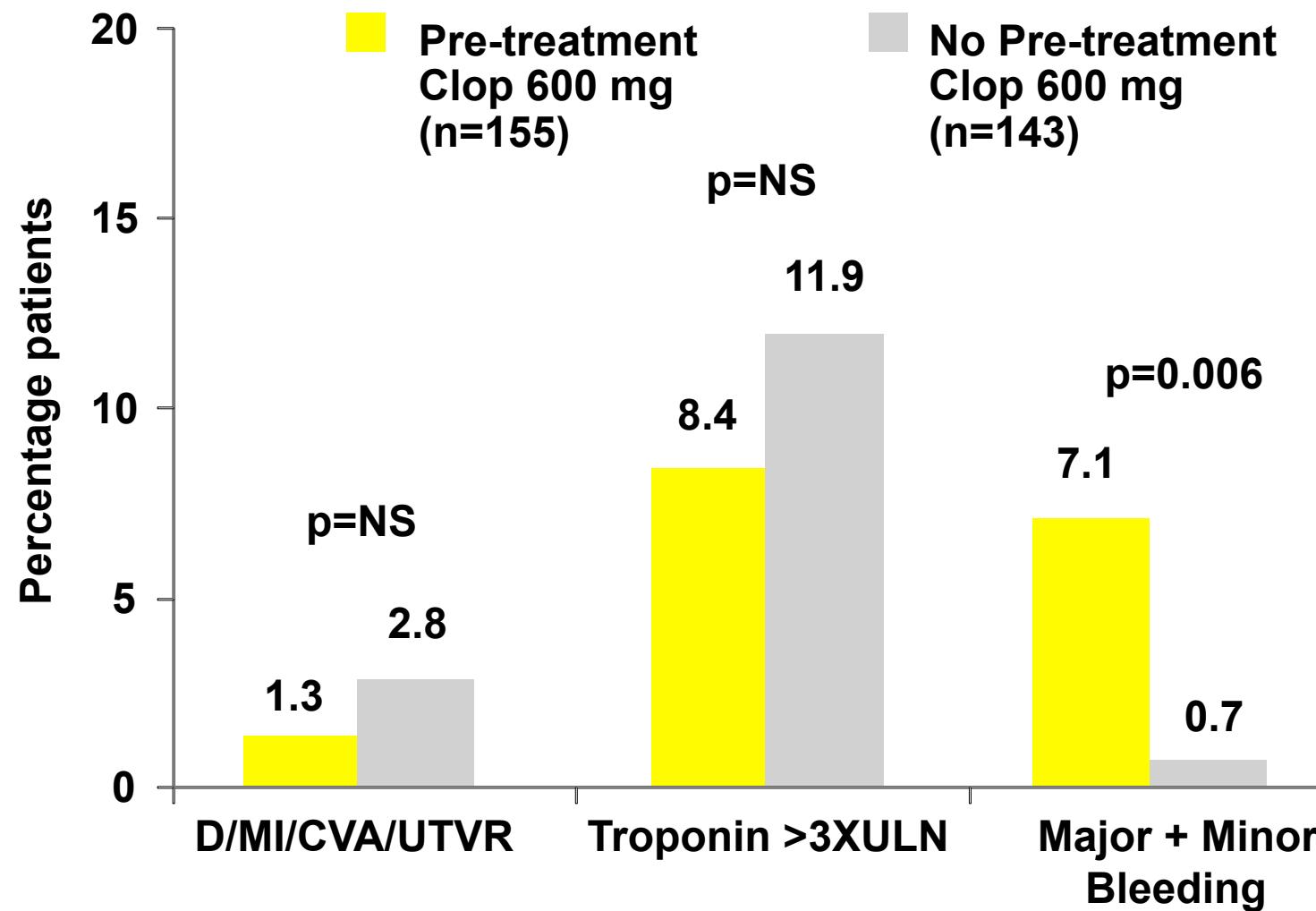
Sabatine. et al. JAMA. 2005;294:1224-1232.

Primary Outcome Parameters: Ambulance Subgroup



*Occluded infarct artery (TFG 0/1) + death + re-MI prior to angiography

PRAGUE-8 (with 600 mg load): Patients undergoing elective PCI





ACCOAST



Diagnosis
+
Transfer
to cath lab
 $>2\text{ h}$ to $<24\text{ h}$

Cath lab

30 d FU

NSTEMI / Troponin $>100+$ (event driven)
clopidogrel naïve: loading-term 75 mg

Plan Angio if $>2\text{ h}$ to $<24\text{ h}$

Ran

Pras 30

Inactive

Angio

PCI

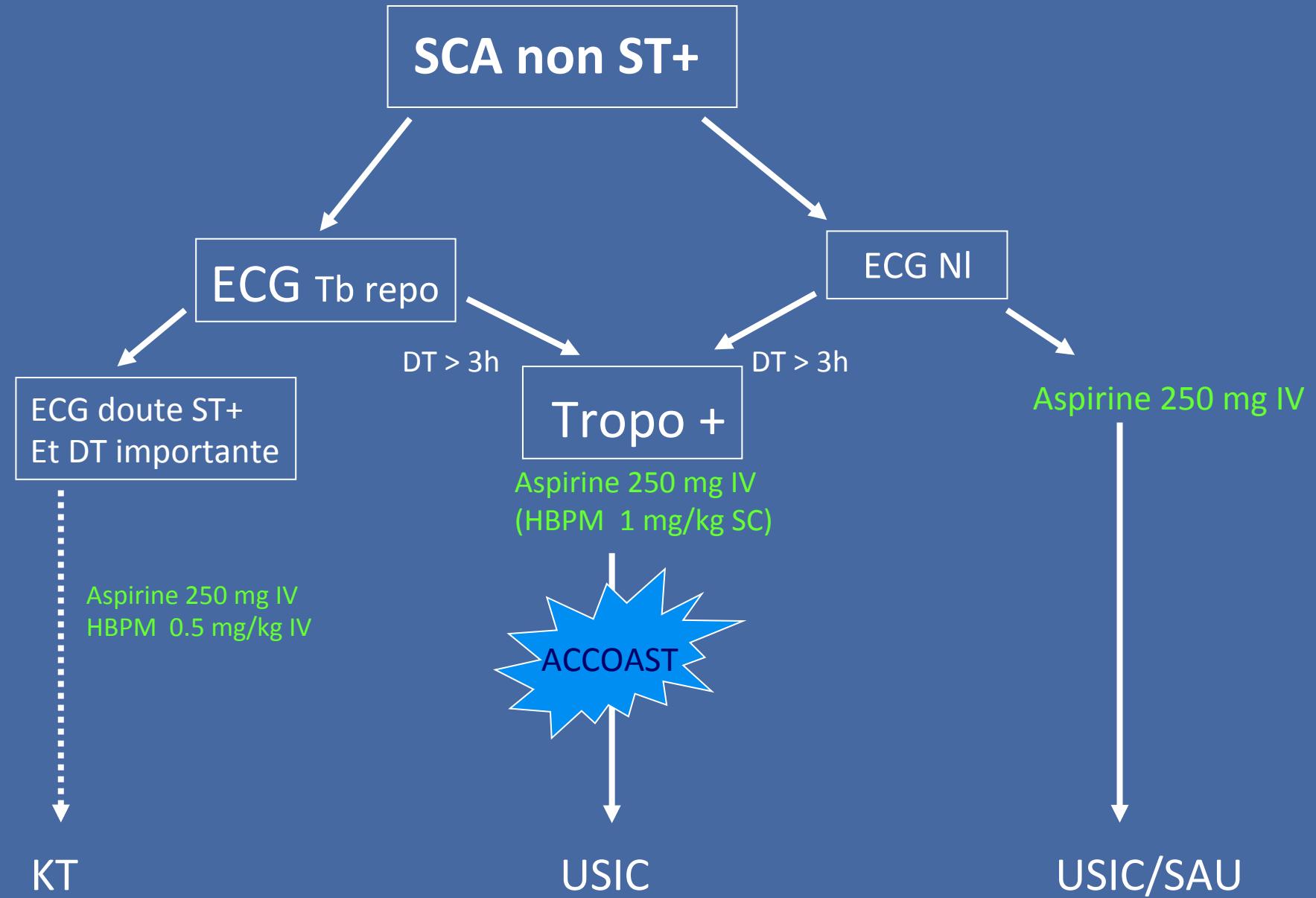
Pras 30

Angio

PCI

Pras 60

PE: CV-D, MI, stroke, urgent revasc., GPI bailout @ 7d Pras 10(5)
SEs: All TIMI major bleeding @ 7d; NetClinBenefit @ 7d for 30d



AHA Scientific Statement

2009 Focused Updates: ACC/AHA Guidelines for the Management of Patients With ST-Elevation Myocardial Infarction (Updating the 2004 Guideline and 2007 Focused Update) and ACC/AHA/SCAI Guidelines on Percutaneous Coronary Intervention (Updating the 2005 Guideline and 2007 Focused Update)

Class I

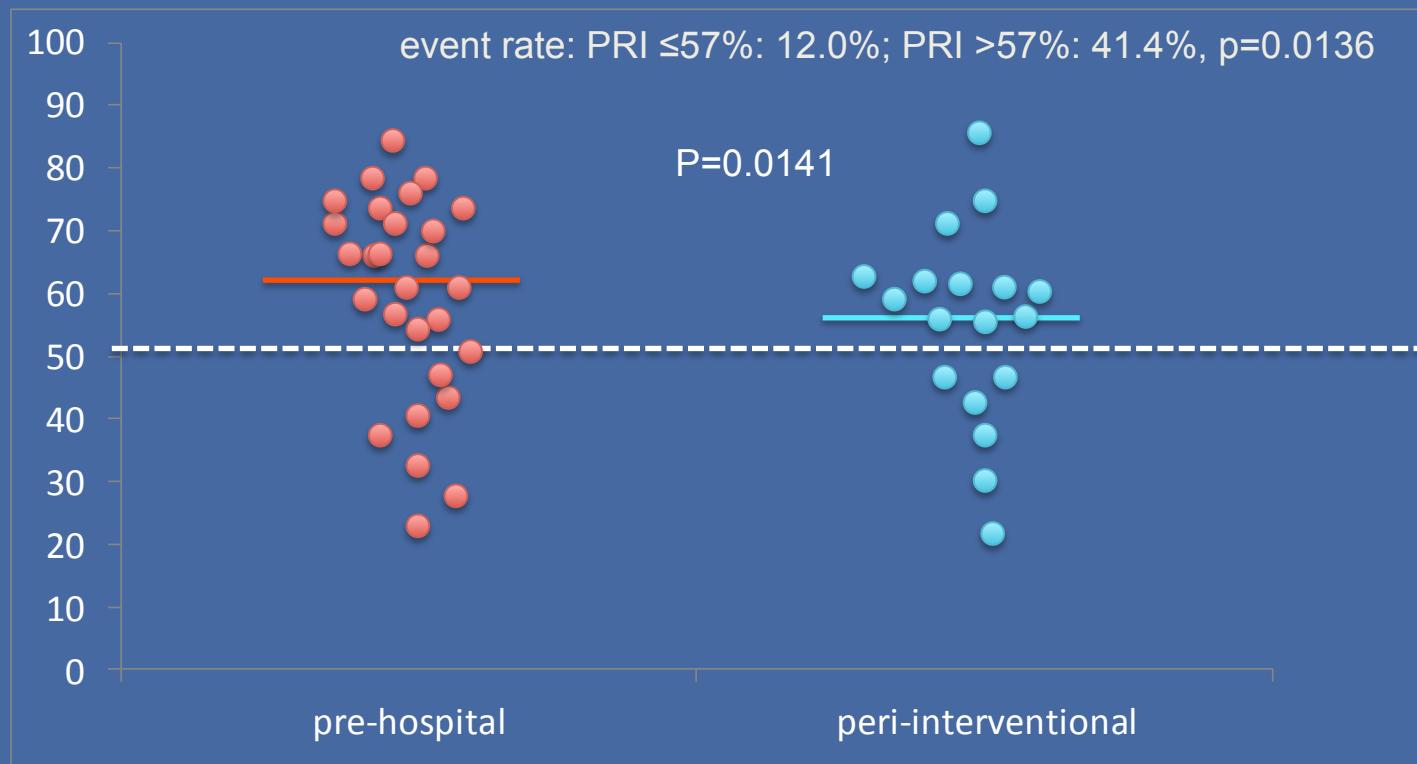
1. A loading dose of thienopyridine is recommended for STEMI patients for whom PCI is planned. Regimens should be 1 of the following:
 - a. At least 300 to 600 mg of clopidogrel† should be given as early as possible before or at the time of primary or nonprimary PCI. (*Level of Evidence: C*)
 - b. Prasugrel 60 mg should be given as soon as possible for primary PCI.^{26,27} (*Level of Evidence: B*)

Class III

1. In STEMI patients with a prior history of stroke and transient ischemic attack for whom primary PCI is planned, prasugrel is not recommended as part of a dual-antiplatelet therapy regimen. (*Level of Evidence: C*)

Pre-hospital clopidogrel loading

54 STEMI patients

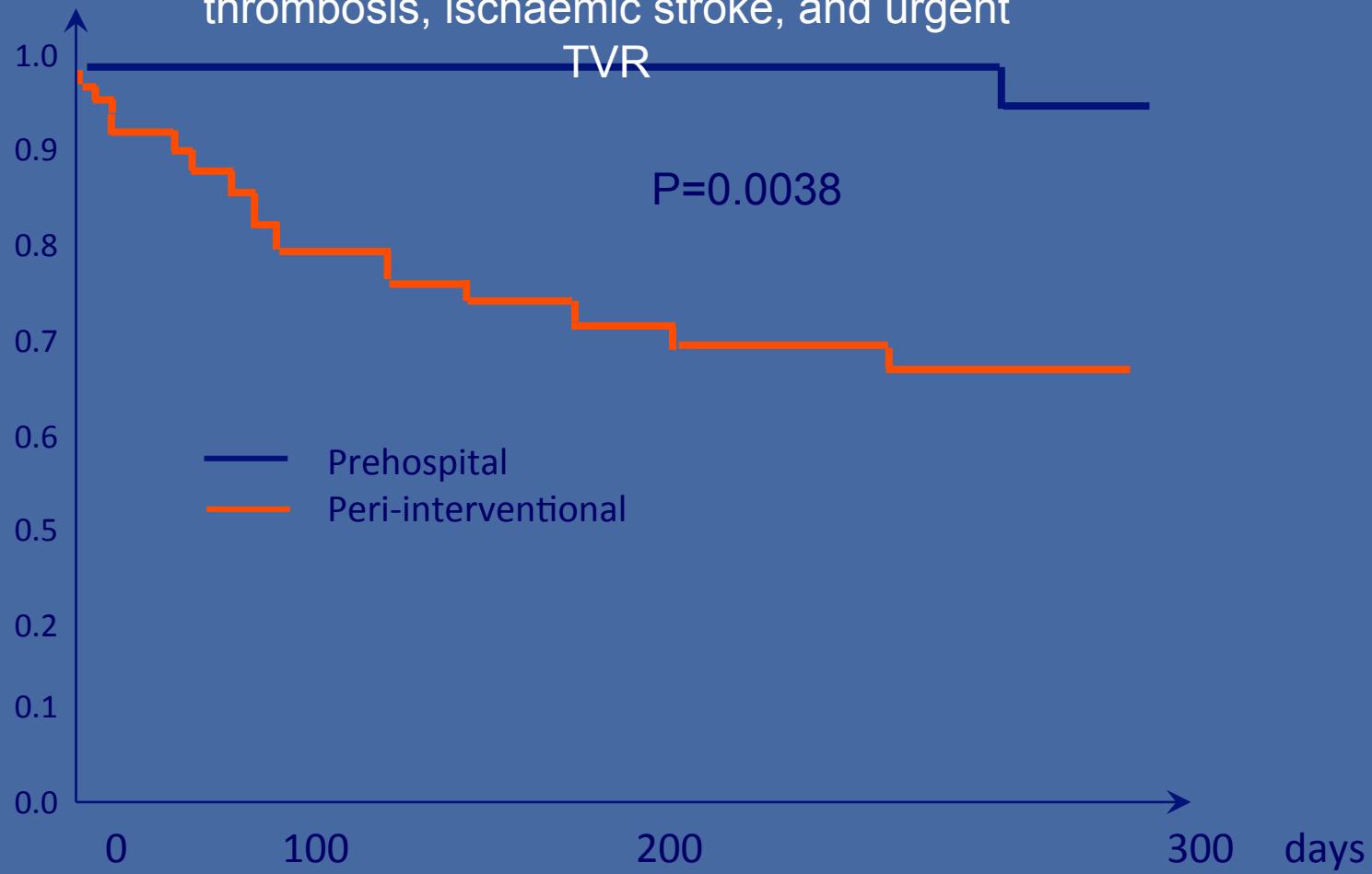


Diabetes, low high-density lipoprotein and pre-hospital clopidogrel loading were associated with impaired clopidogrel responsiveness

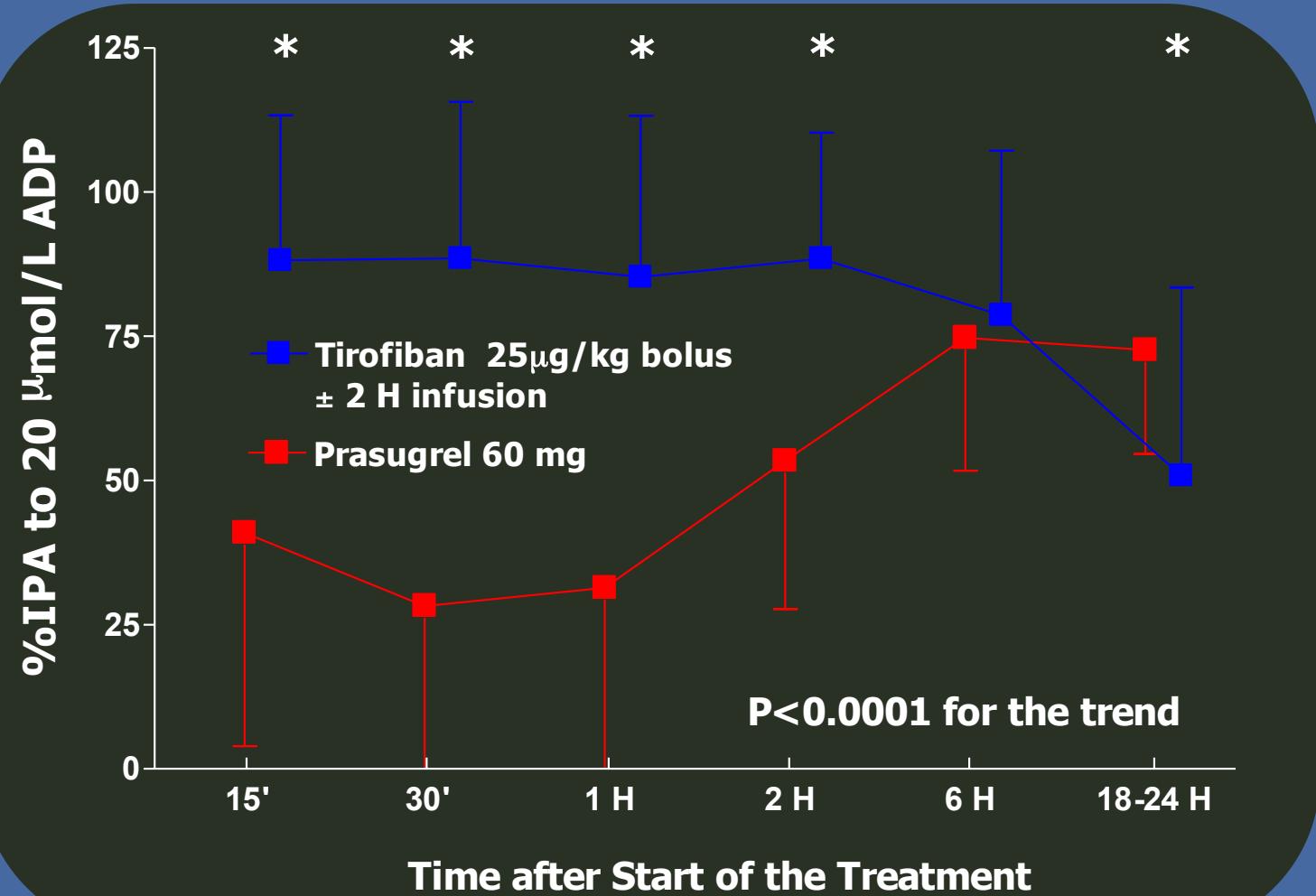
Pre-hospital clopidogrel loading

54 STEMI patients

cardiac death, non-fatal MI, stent thrombosis, ischaemic stroke, and urgent

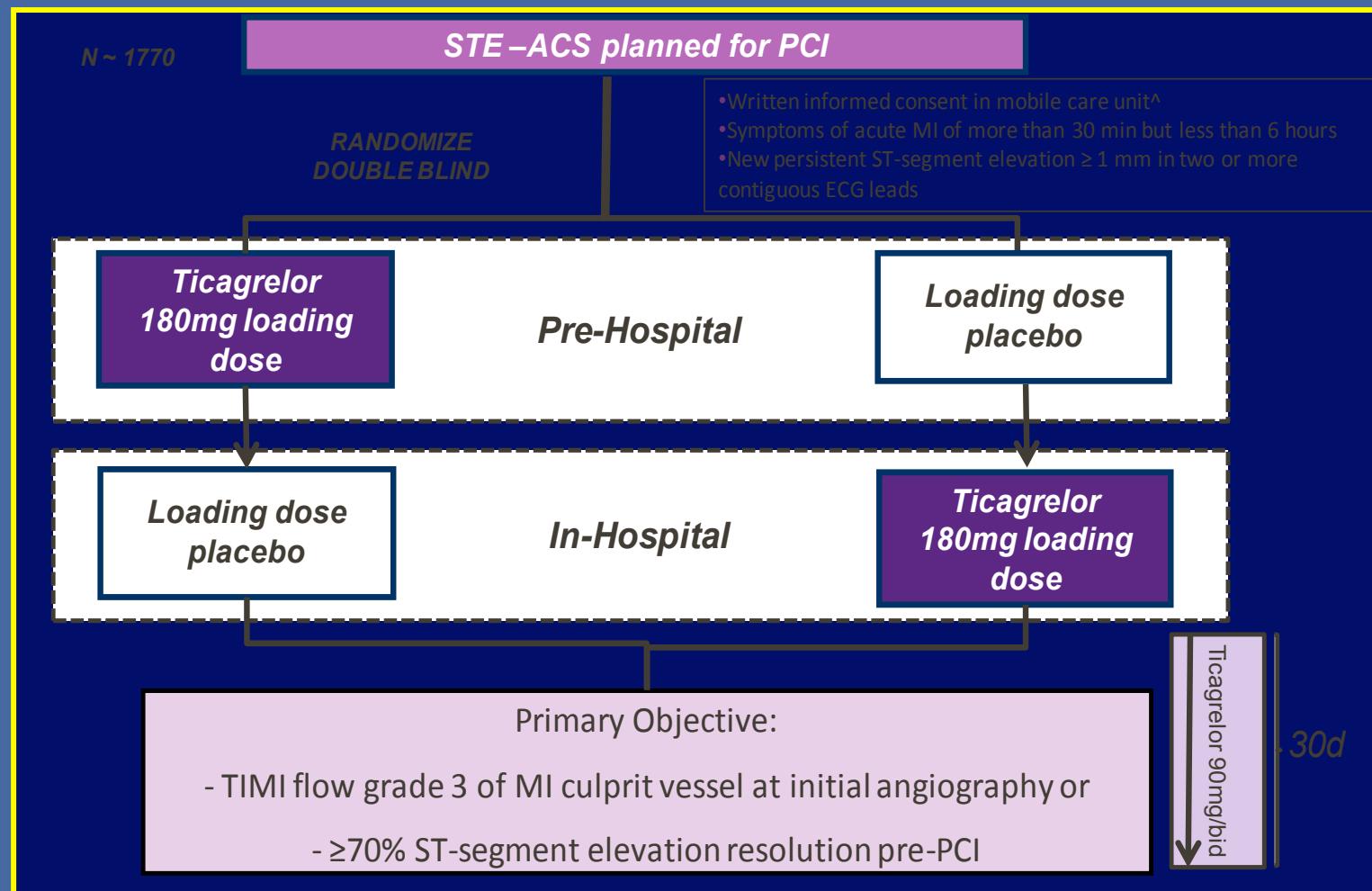


Late onset of action of Prasugrel in STEMI





ATLANTIC Design



NCT01347580 – G. Montalescot et al.

Triple thérapie avec antiGPIIbIIIa ?

Intérêt Prasugrel si antiGPIIbIIIa ?

- STEMI: Prasugrel > Clopidogrel (2/3 antiGPIIbIIIa)
- Prespecified subgroup STEMI + IIbIIIa (n=2226):

Primary endpoint: Prasugrel 10.4% vs. Clopidogrel 13.5%, p=0.02

Montalescot et al, Lancet 2009

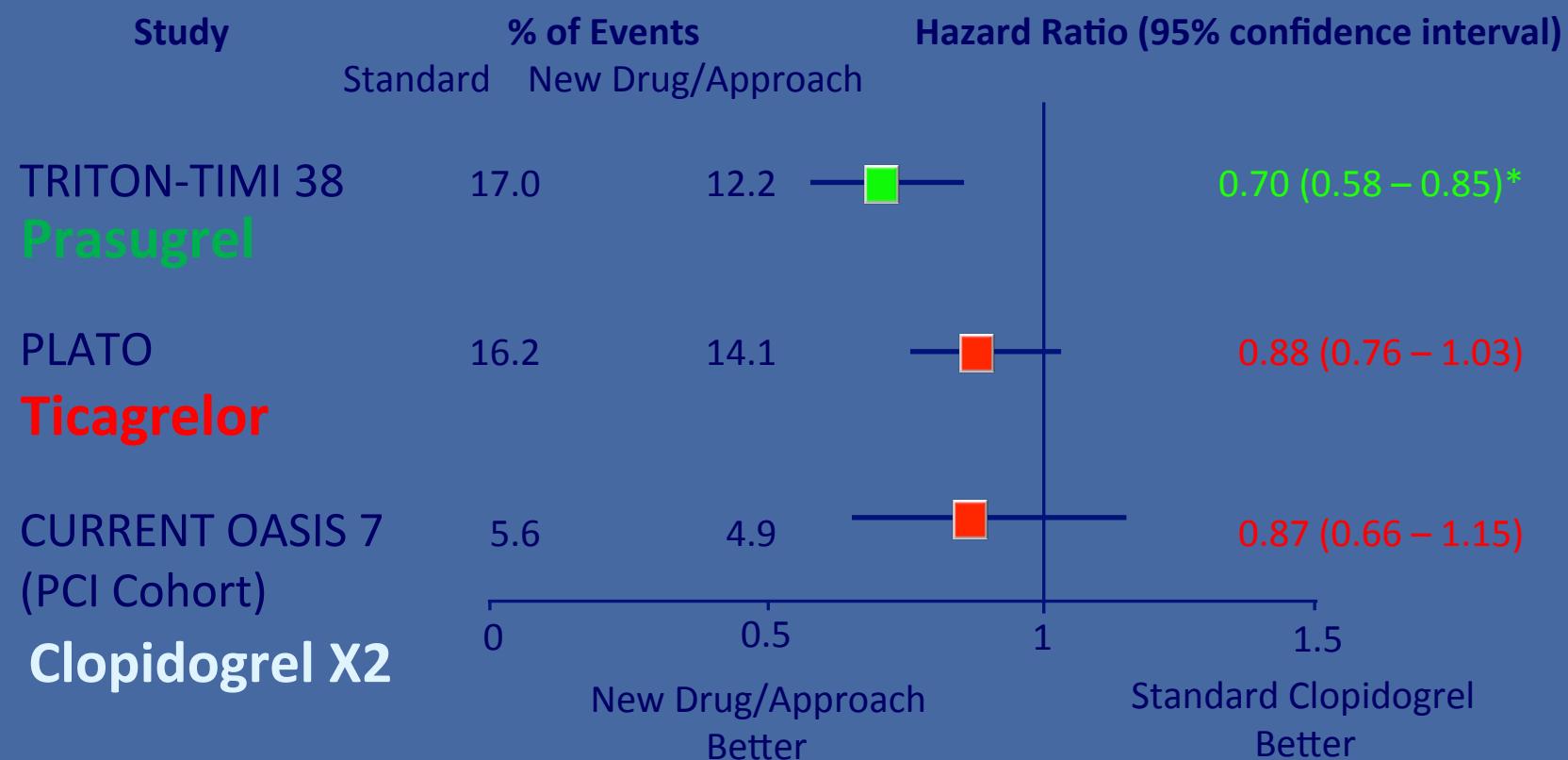
- Pas de sur risque hémorragique

Intérêt antiGPIIbIIIa si Prasugrel ?

- Délai action Prasugrel: Nécessité action rapide antiGPIIbIIIa dans STEMI

KEY SUBGROUPS

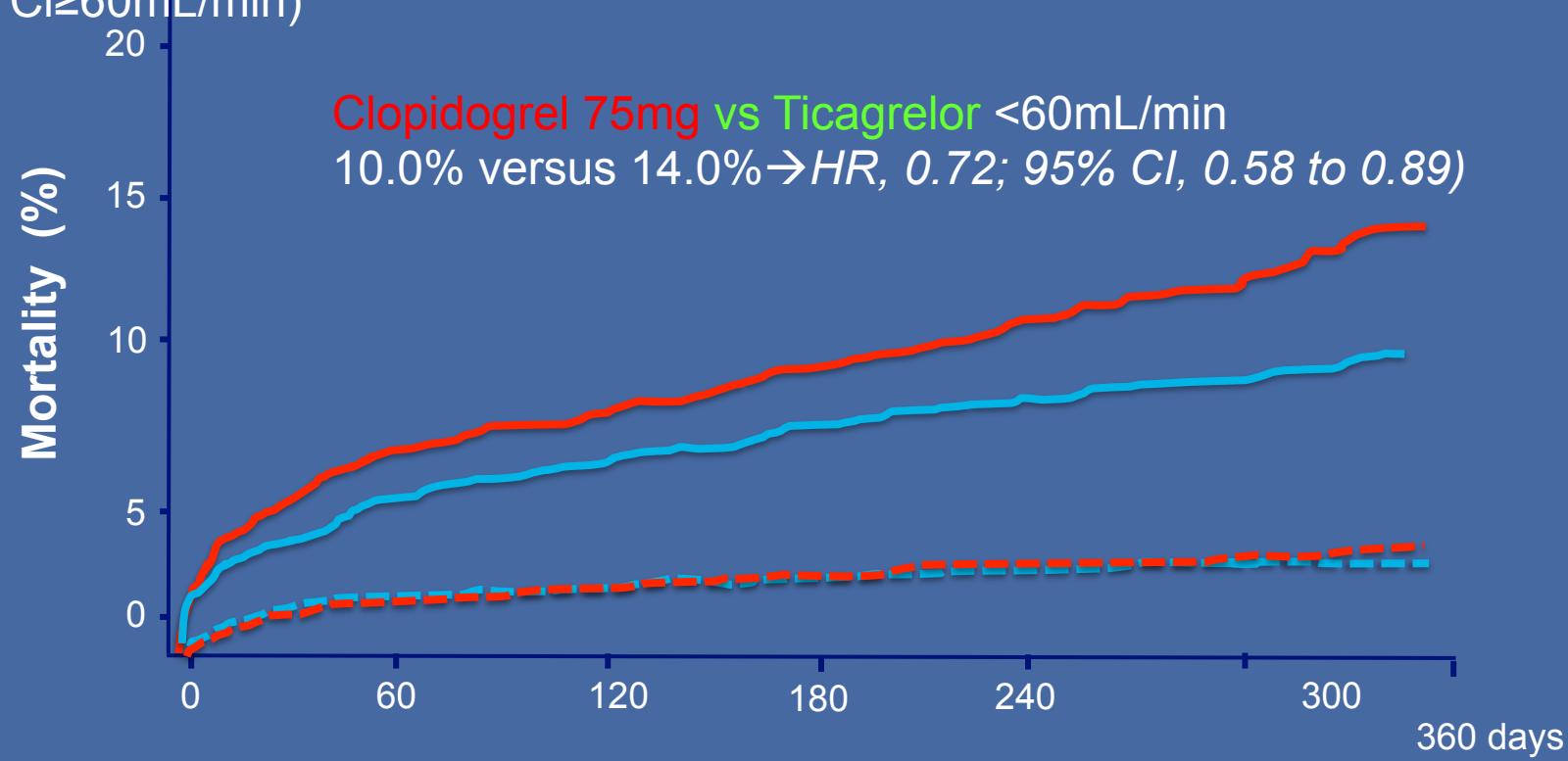
New Approaches in Diabetics

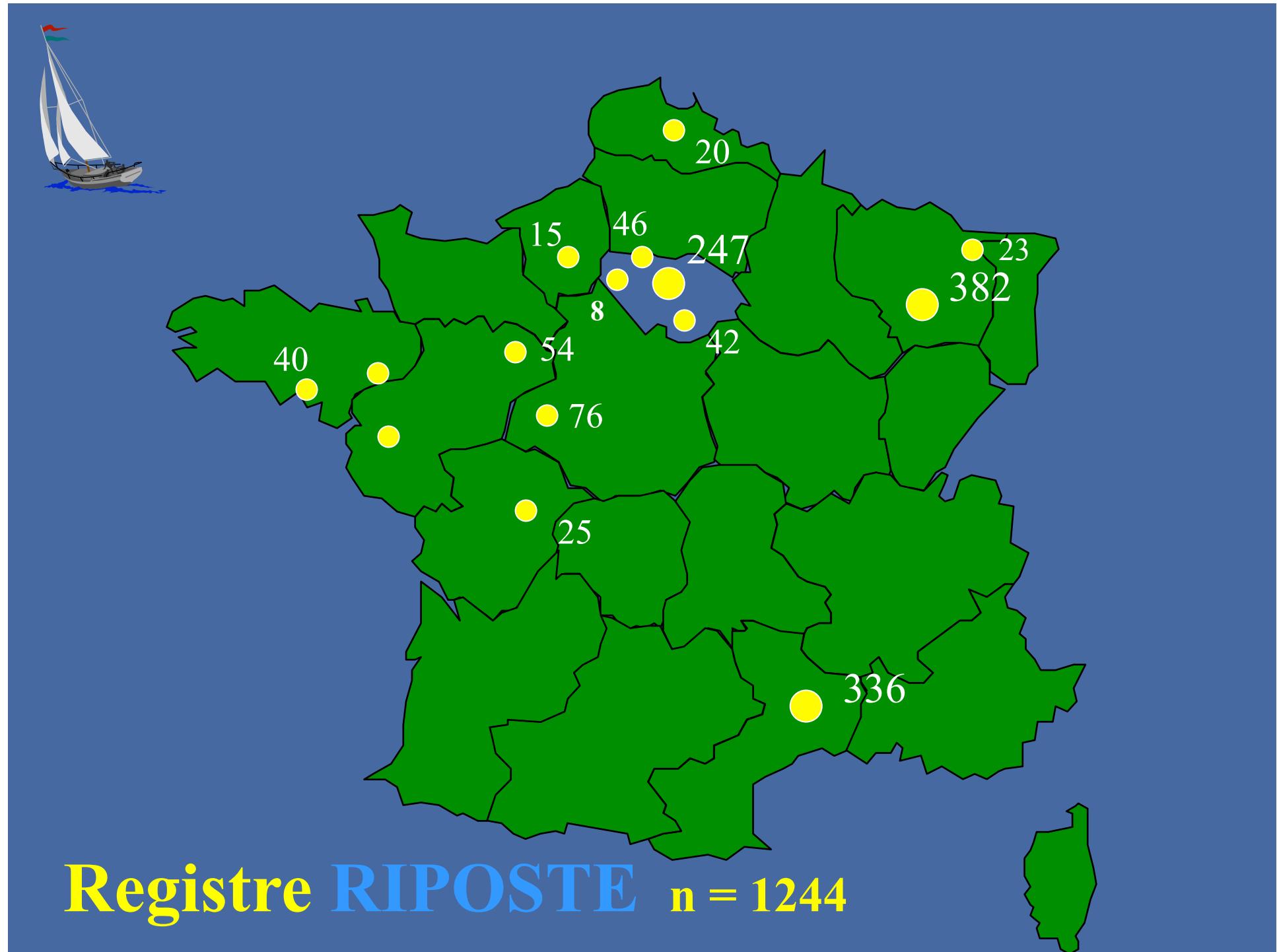


Ferreiro JL, Angiolillo DJ. *Circulation*. 2010. In press.

Renal failure patients

- From 17.3% to 22.0% [HR], 0.77; 95% [CI], 0.65 to 0.90 (n= 3237) (Cr Cl >60mL/min)
- From 7.9% to 8.9% (HR, 0.90; 95% CI, 0.79 to 1.02) (n=11 965) (Cr Cl \geq 60mL/min)



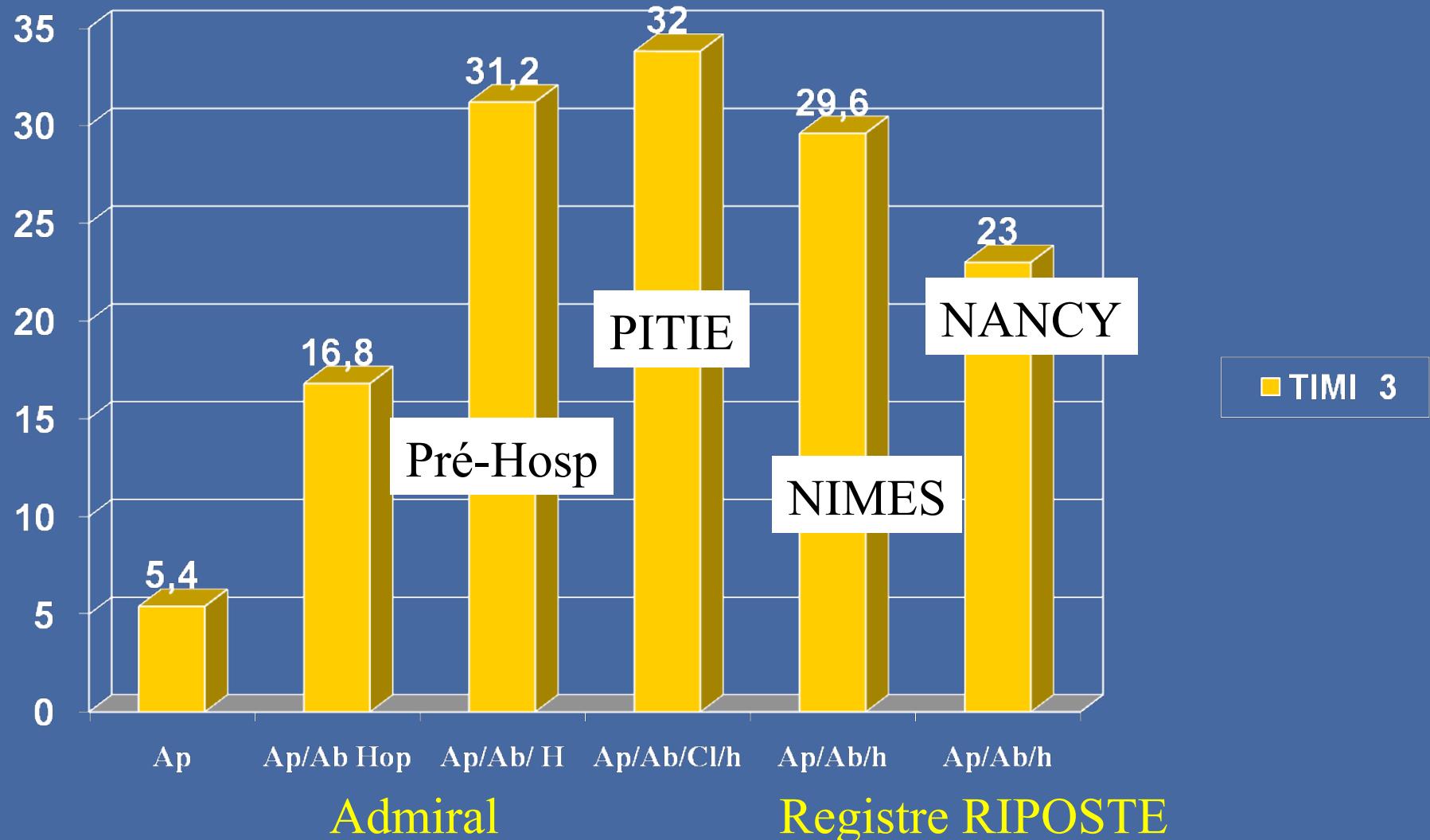


Flux TIMI avant dilatation (%)

Ap = Aspirine

Ab = Reopro

Cl = Plavix



REGISTRE EFISMUR SMUR PITIE



Douleur-PEC = 122 mn

- 182 SCA ST+ depuis mars 2010
 - 103 ont reçu 60 mg de Prasugrel en pré H
 - 70 n'ont reçu que Prasugrel (TIMI 3 ap = 31,4%)
 - 33 ont reçu Prasugrel + reopro (TIMI 3 ap = 48,4%)
-
- 4 ré infarctus, 2 revasc.
 - 1 saignement digestif à 4 jours



SCA ST+ (prévu ATL) < 24 h

↓
Aspirine 500 mg IV
HBPM 0.5 mg / kg IV

Risque hémorragique

ATCD AVC/AIT, Saignement, Chir dans le mois
TT AVK, Thrombopénie (< 50 000)

NON

Prasugrel 60 mg per os

(quelque soit le poids et l'âge et même si plavix)

Si < 3h et < 75 ans

NON

KT

OUI

Plavix

(dose en fonction du risque)

OUI

Réopro

KT

KT

Conclusion

le pré traitement SCA SMUR

- Malheureusement peu d'étude nous permettent d'avoir des recommandations pour le pré hospitalier.
- Pour le SCA non ST le **pré traitement** de préparation
ASPIRINE IV + HBPM SC PAS de P2Y12 per os
- Pour le SCA ST+ le **pré traitement** de préparation
ASPIRINE IV + HBPM IV + P2Y12 +/- AgP2b3a

Importance des registres



CHAMPION PHOENIX – A Global Trial

12 Countries | 153 Sites

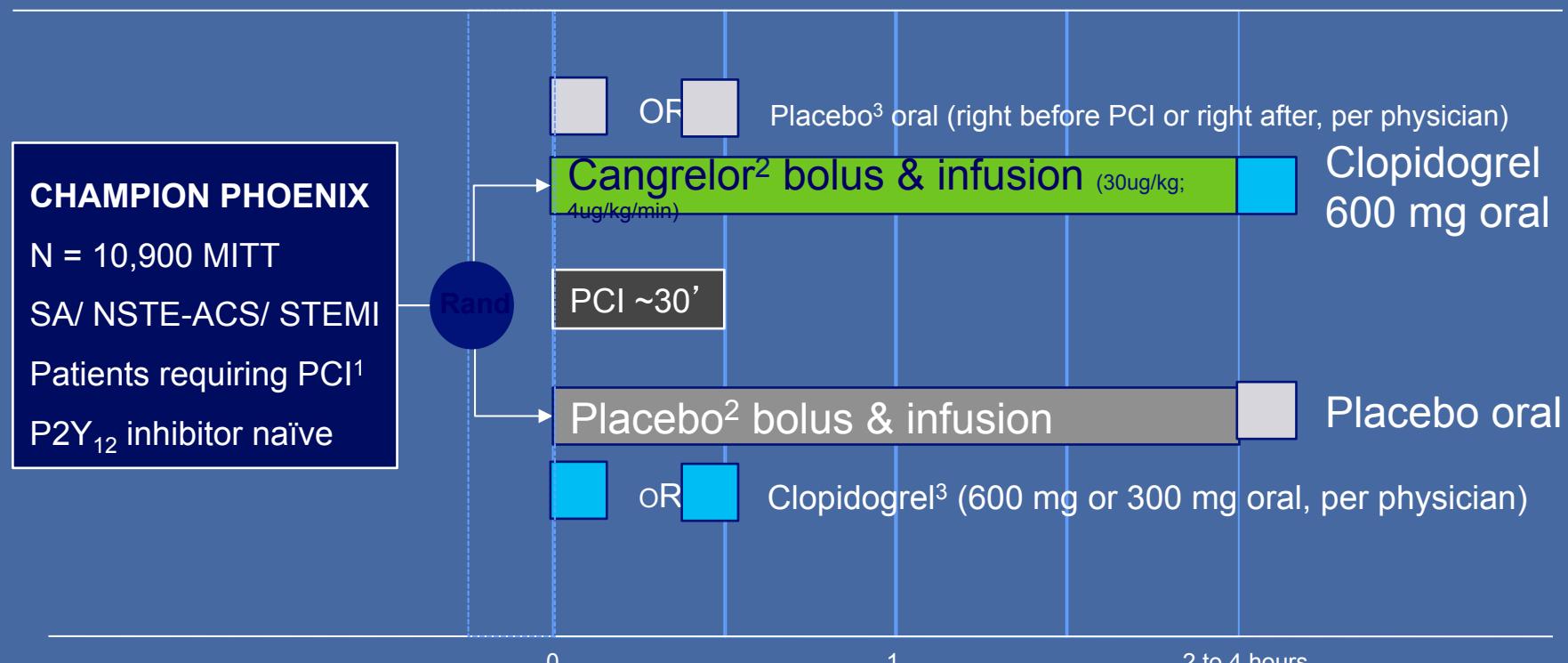


ORIGINAL ARTICLE

Effect of Platelet Inhibition with Cangrelor during PCI on Ischemic Events

Deepak L. Bhatt, M.D., M.P.H., Gregg W. Stone, M.D.,
Kenneth W. Mahaffey, M.D., C. Michael Gibson, M.D., P. Gabriel Steg, M.D.,
Christian W. Hamm, M.D., Matthew J. Price, M.D., Sergio Leonardi, M.D.,
Dianne Gallup, M.S., Ezio Bramucci, M.D., Peter W. Radke, M.D.,
Petr Widimský, M.D., D.Sc., Frantisek Tousek, M.D., Jeffrey Tauth, M.D.,
Douglas Spriggs, M.D., Brent T. McLaurin, M.D., Dominick J. Angiolillo, M.D., Ph.D.,
Philippe Génereux, M.D., Tiepu Liu, M.D., Ph.D., Jayne Prats, Ph.D.,
Meredith Todd, B.Sc., Simona Skerjanec, Pharm.D., Harvey D. White, D.Sc.,
and Robert A. Harrington, M.D., for the CHAMPION PHOENIX Investigators*

CHAMPION PHOENIX Study Design



¹Randomization occurred once suitability for PCI was confirmed either by angiography or STEMI diagnosis.

Double blind study medication was administered as soon as possible following randomization.

²Study drug Infusion (cangrelor or matching placebo) was continued for 2-4 hours at the discretion of the treating physician. At the end of the infusion patients received a loading dose of clopidogrel or matching placebo and were transitioned to maintenance clopidogrel therapy.

³Clopidogrel loading dose (or matching placebo) was administered as directed by the investigator. At the time of patient randomization, a clopidogrel loading dose of 600 mg or 300 mg was specified by the investigator.

MITT=modified intent-to-treat; NSTE-ACS=non-ST-elevation acute coronary syndrome; PCI=percutaneous coronary intervention; SA=stable angina; STEMI=ST-elevation MI.

Death/ MI/ IDR/ Stent Thrombosis within 48 Hours

