Pretreatment with P2Y12 Inhibitors in ACS Just Say YES!

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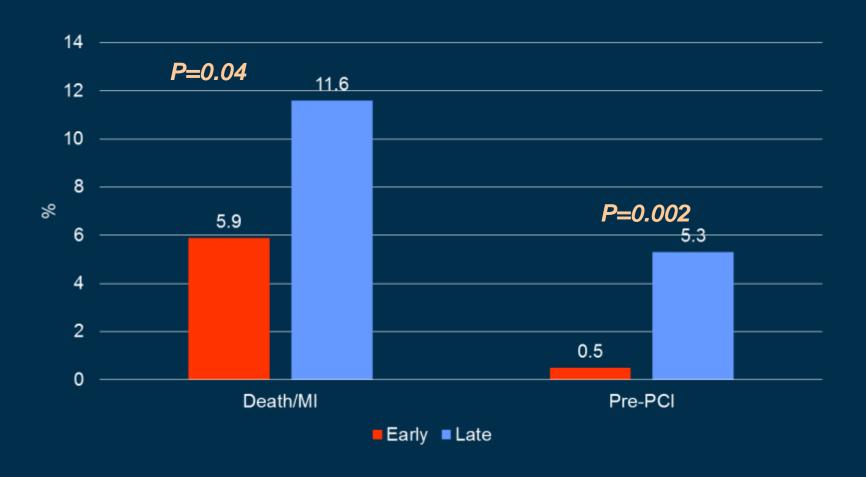
Disclosure Statement of Financial Interest

I, SORIN BRENER MD, DO NOT have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.

Why Pretreat?

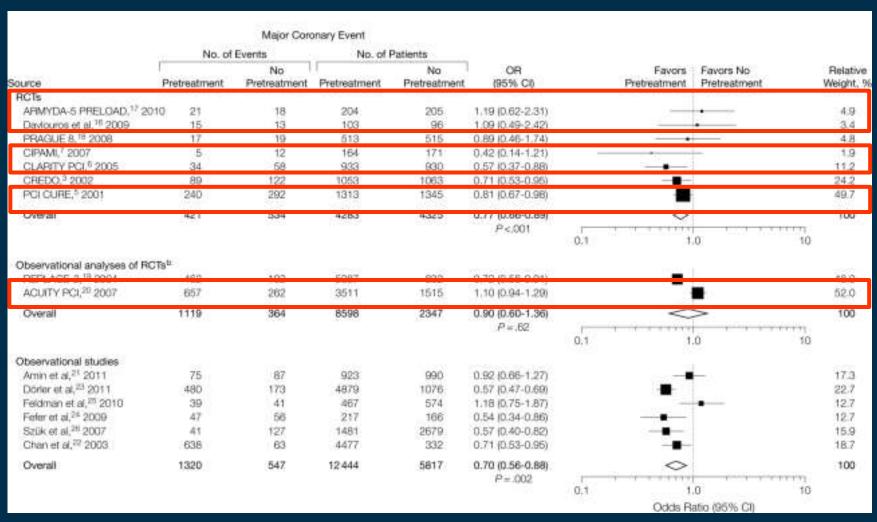
- In NSTE ACS angiography and PCI are performed ~24h from admission.
 Emergency CABG occurs in <1%
- A significant portion of MACE occur before PCI
- Risk of bleeding associated with pretreatment is relatively low
- It makes sense provides antiplatelet therapy when needed after stent implantation

ISAR COOL

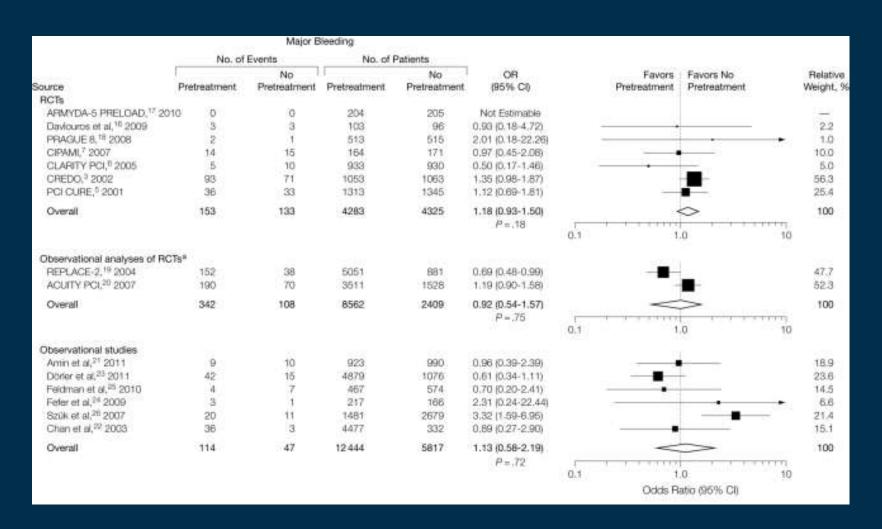


Neumann et al. JAMA 2003; 290:1593

Metaanalysis of Preatreatment



Major Bleeding with Pretreatment



Interventional Characteristics

	Placebo + ASA* (N = 1345)	Clopidogrel + ASA* (N = 1313)
Overall median days after randomization on which PCI was done	10	10
PCI during initial hospitalization	6	6
PCI after initial hospitalization	49	49
Stent use (%)	81.3	82.4
Use of open-label thienopyridine		
Before PCI (%)	24.7	26.4
Overall (%)	84.1	82.9

^{*} In combination with standard therapy

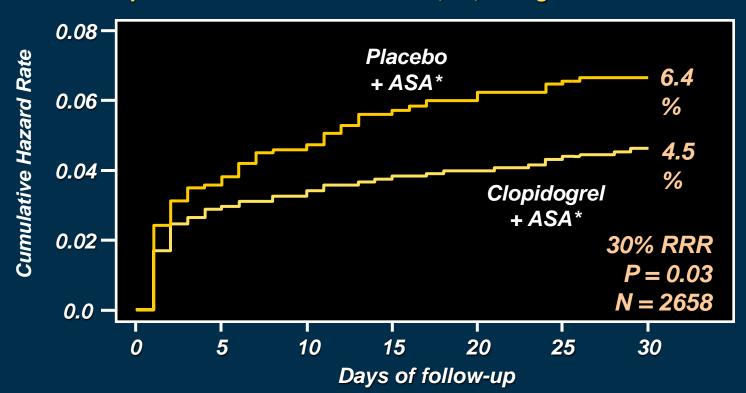
Efficacy Outcomes

	Placebo + ASA* N = 1345	Clopidogrel + ASA* N = 1313	RRR	P value
From PCI to 30 days				
 MI, urgent revascularization or CV death 	tion 6.4%	4.5%	30%	0.03
From PCI to follow-up				
CV death or MI	8.0%	6.0%	25%	0.047

^{*} In combination with standard therapy

30 Day Results

Composite of cardiovascular death, MI, or urgent revascularization



^{*} In combination with standard therapy

Subgroup Analysis

	Ount		MILCI	V 313	
	Placebo + ASA*	Clopidogrel + ASA*	RR 95	% CI	
Overall	12.6%	8.8%	0.69	0.54-0.87	
Stent	11.7%	8.7%	0.73	0.56-0.95 —	-
No stent	16.2%	9.4%	0.56	0.34-0.95	_
<i>Age ≤</i> 65	9.8%	5.9%	0.59	0.41-0.84	-
Age > 65	16.9%	13.4%	0.79	0.57-1.08	
Male	11.9%	7.9%	0.65	0.48-0.87	
Female	14.1%	11.0%	0.77	0.52-1.15	
Diabetes	16.5%	12.9%	0.77	0.48-1.22	_
No diabetes	11.7%	7.9%	0.66	0.50-0.87	-
During initial hosp	12.0%	8.3%	0.68	0.50-0.92	
After initial hosp	13.8%	9.8%	0.70	0.48-1.02	
				0	
pination with standard ther	anv			1	0 Platello
				Clopidogrel Better	
R. et al for the CURE Trial l	Investigators. La	ancet. August 200	1;21:2033-41.	Relative F	Risk (95% CI)

^{*} In comb

Bleeding Outcomes

	Placebo + ASA*	Clopidogrel + ASA*
From PCI to 30 days		
Major	1.4%	1.6% [†]
Life threatening	0.7%	0.7% †
Minor	0.7%	1.0% [†]
From PCI to end of follow-up		
Major	2.5%	2.7% [†]

^{*} In combination wife thereater image

1.3%

1.2% †

Mehta, SR. et al for the CURE Trial Investigators. Lancet. August 2001;21:2033-41.

Minor

2.1%

3.5% ‡

 $^{^{\}dagger}$ P = NS, ‡ P = 0.03

Professional Guidelines Pretreatment in NSTE ACS

- ESC Class lb for 600 mg clopidogrel
 - If ticagrelor or Prasugrel not available
- ACC Class lb for 300-600 mg clopidogrel as soon as possible after admission

Final thoughts

- Available data suggest a possible role for pretreatment with P2Y12 inhibitors to prevent ischemic events
- Most of these data pertain to clopidogrel unknown whether newer agents with faster onset of action would behave differently
- In the absence of a significant increase in major bleeding, pre-treatment seems a logical strategy