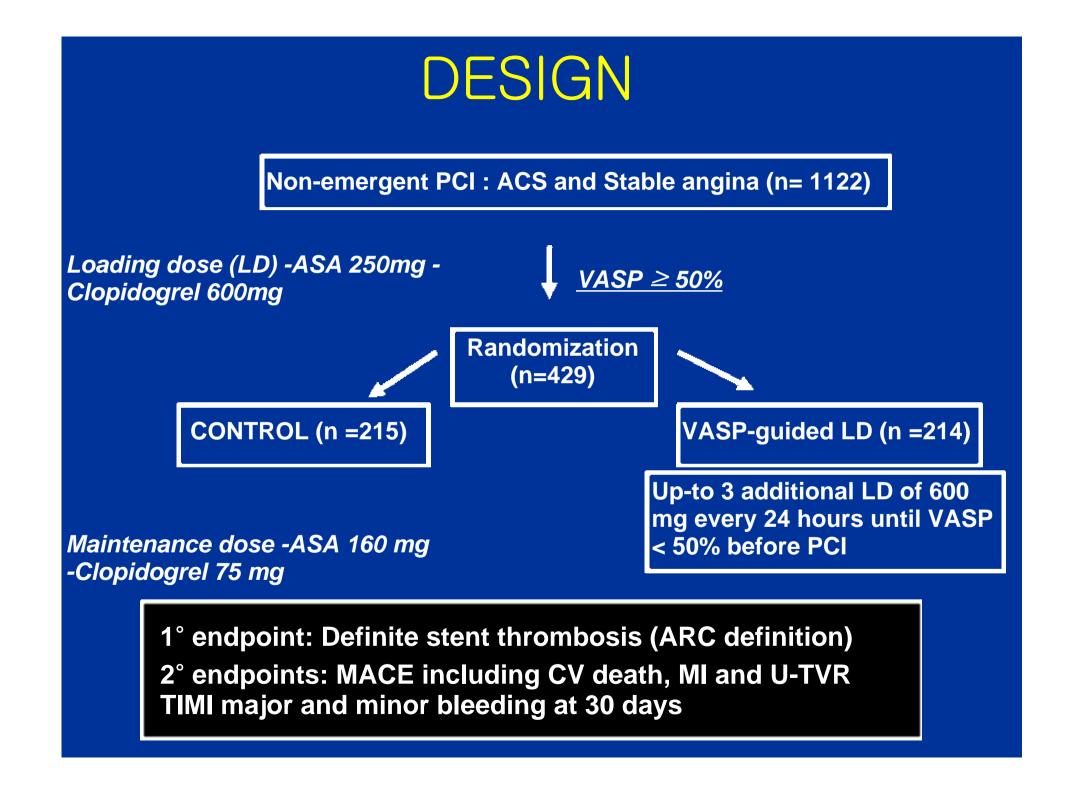
TAILORED CLOPIDOGREL LOADING DOSE ACCORDING TO PLATELET REACTIVITY MONITORING DECREASE EARLY STENT THROMBOSIS

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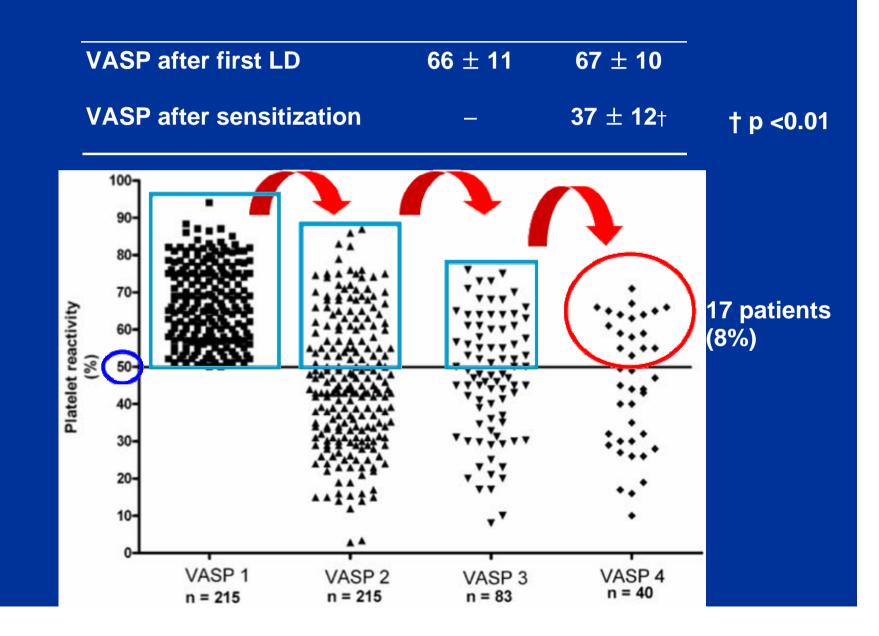
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Platelet reactivity monitoring



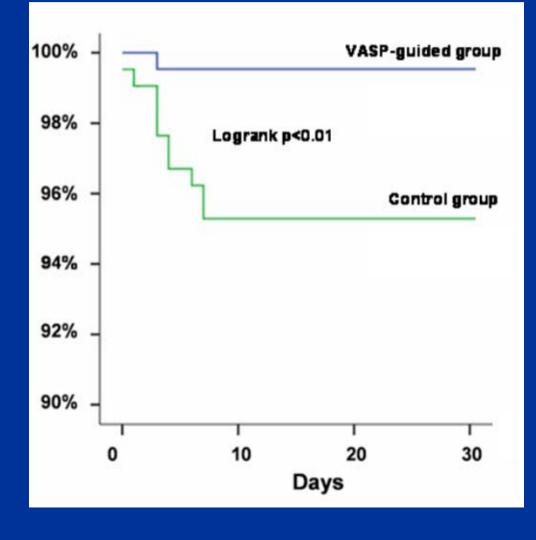
Early definite stent thrombosis during one month follow-up.

	Control group	VASP-guided group	
Endpoint n, (%)	(n= 214)	(n= 215)	p
Acute stent thrombosis	2 (0.9)	0	0.25
Sub-acute stent throm bosis	8 (3.7)	1 (0.5)	0.02
Early DST	10 (4.7)	1 (0.5)	0.01

-2 patients presented recurrent sub acute stent thrombosis (2 recurrences for each, 1 in the control group and 1 in the VASP guided group.
-GP IIb/IIIa inhibitor were used in half of patients presenting with early stent thrombosis.

Timing of early stent thrombosis

All early stent thrombosis occured during the first 7 days



Secondary end-point: MACE

Endpoint n, (%)	Control (n= 214)	VASP-guided (n= 215)	р
Cardiovascular death	4 (1.8)	0	0.06
Myocardial infarction	10 (4.8)	1 (0.5)	0.01
Urgent revascularization	5 (2.3)	0	0.06
	19 (8.9)	1 (0.5)	< 0.001

Secondary end-point: TIMI bleeding

	Control (n= 214)	VASP-guided (n= 215)	р
Major bleeding	2 (0.9)	2 (0.9)	1
Minor bleeding	4 (1.9)	6 (2.8)	0.8
All	6 (2.8)	8 (3.7)	0.8

No difference in bleeding complication between the 2 groups No intra-cerebral bleeding, no fatal bleeding Majority of patients had PCI through the radial access (55.6%)

CONCLUSION 1

 Adjusted LD of clopidogrel according to PR monitoring decrease the rate of stent thrombosis at 30 days in patients with clopidogrel low-response without increasing bleedings.

CONCLUSION 2

 Patients could be divided in 3 groups according to VASP index:
 Good-responders: VASP<50 % after a first bolus of 600 mg of clopidogrel (55%)

 Low-responders: VASP>50 % after the first bolus but could be sensitized with up-to three additional LD (37%)

 Resistants: VASP>50 % despite up-to 2400 mg of clopidogrel (8%)

CONCLUSION 3

• Paradigm shift ?

 Therapeutic window for anti platelet therapy in patients undergoing PCI to prevent ischemic events without increasing bleedings is emerging and support the need for platelet reactivity monitoring.