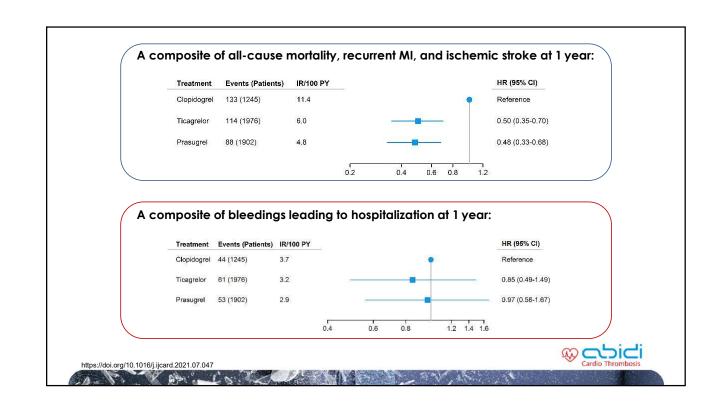
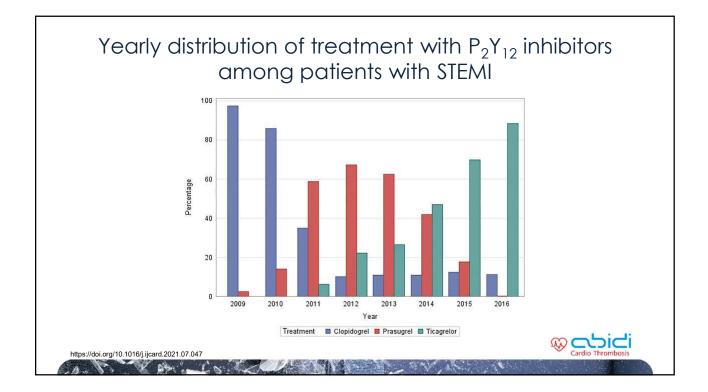
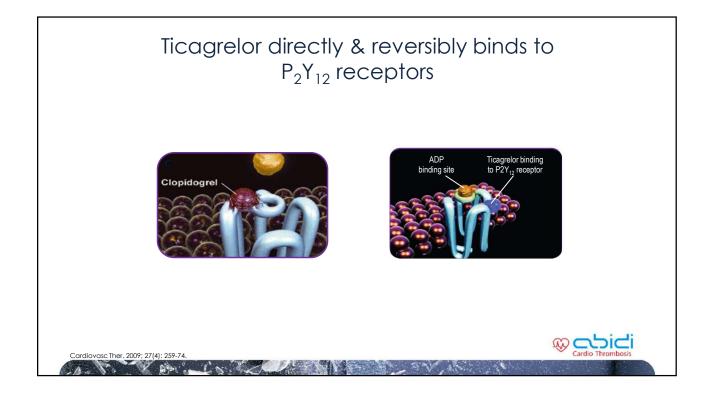
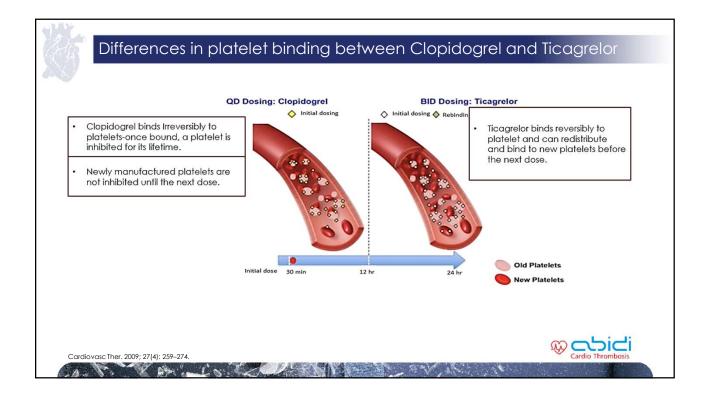


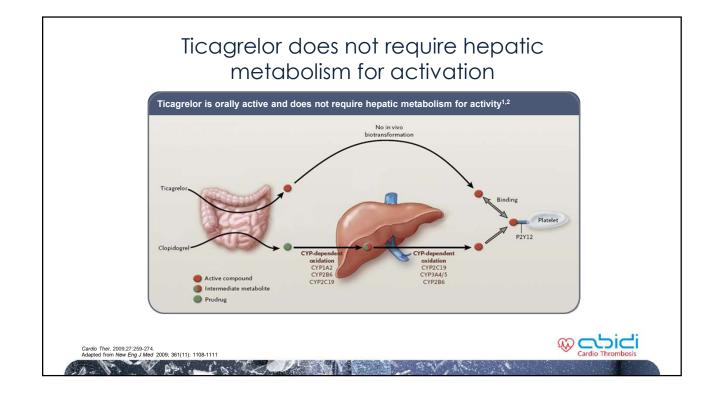
Aspirin	Ticlopidine	Clopidogrel	Dual anti- thera		Prasugrel	Ticagre	lor
1980s	1991	1998	2000	's	2009	2011	
DAPT Trial	Population	Comparison	CV Death (RRR)	MI (RRR)	Stent Thrombosis (RRR)	Major Bleeding (%)	
Cure (2001)	12,562 NSTE-ACS	Clopidogrel Placebo	7.3% (P = NS)	22.4% (P not given)	Not given	3.7 vs 2.7 (P = 0.001)	
TRITON (2007)		Prasugrel Clopidogrel	12.5% (P = NS)	23.1% (P < 0.001)	47.6% (P < 0.001)	1.4 vs 0.9 (P = 0.01)	
PLATO (2009)	18,624 UA\STEMI\NSTEMI (invasive, conservative)	Ticagrelor Clopidogrel	21% (P = 0.025)	16% (P = 0.005)	26.7% (P = 0.014)	11.6 vs 11.2 (P = NS)	

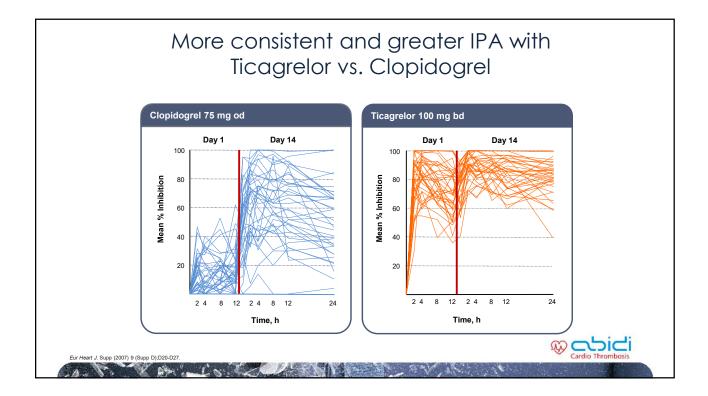


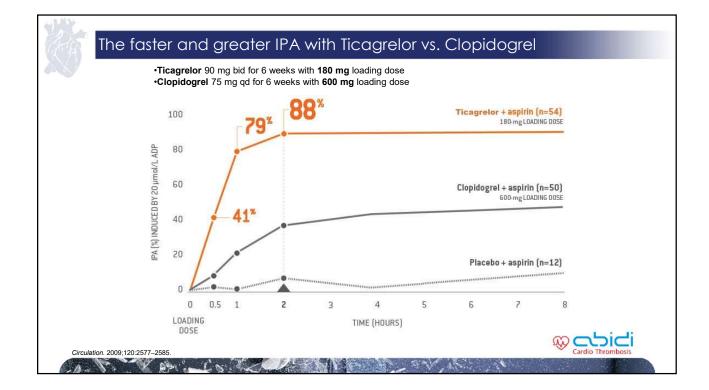


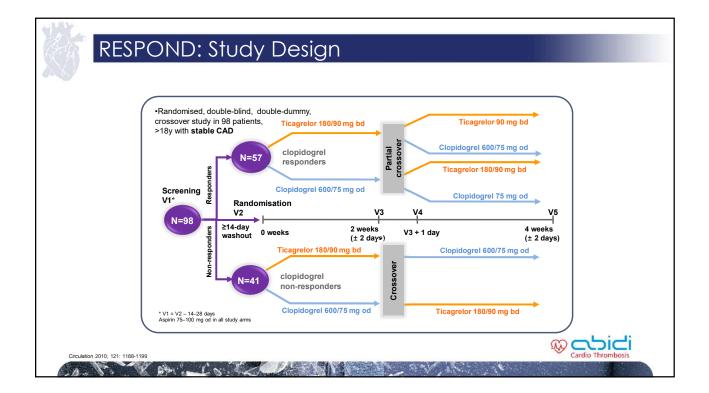




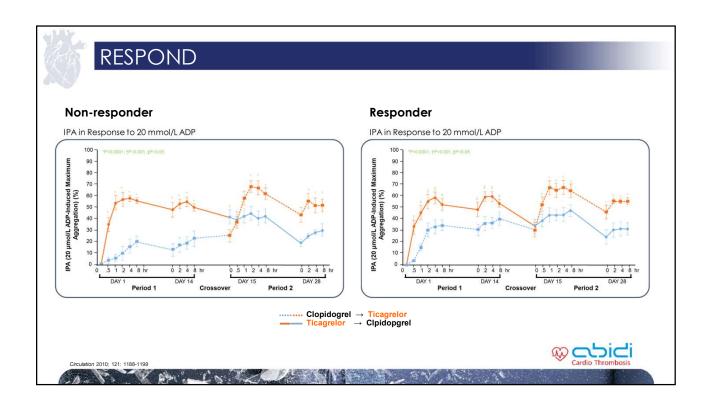








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The unique pharmacology: CPTP vs. Thienopyridine

Туре	Ticagrelor CPTP	Clopidogrel Thienopyridine	Prasugrel Thienopyridine
Prodrug	No	Yes	Yes
CYP-450 activation	No	Yes (twice)	Yes
Onset of action	Rapid	Delayd	Rapid
Time to peak inhibition (h)	2	~12*	2
Individual variability	Small	Large	Small
Reversible P ₂ Y ₁₂ inhibition	Yes	No	No
Half-life	7-12 h	Life of platelet	Life of platelet
Mean platelet inhibition	~95%	~50%	~70%
Relative potency	High	Low	High
Frequency of administration	Twice daily	Once daily	Once daily

4

*With 300 mg loading dose

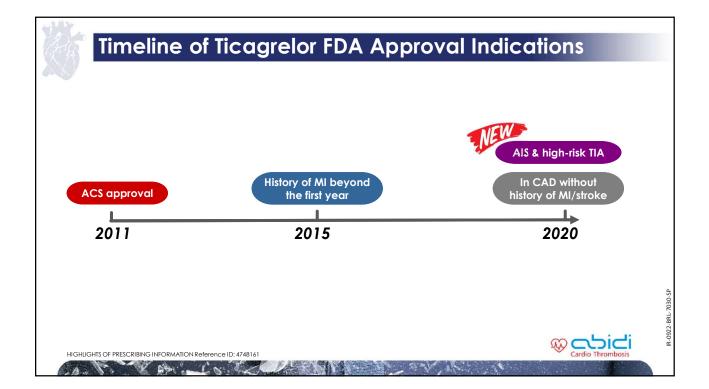
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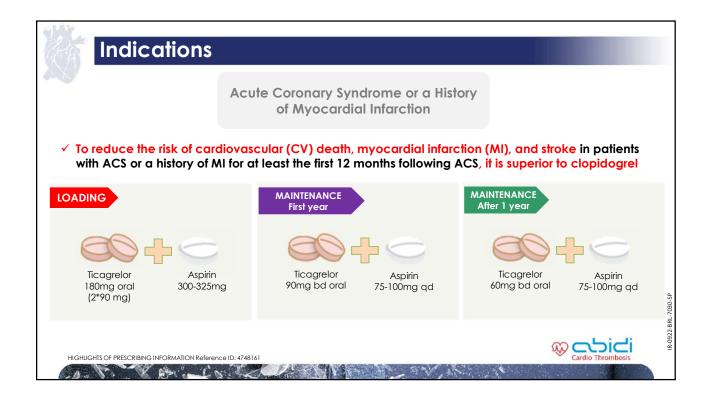
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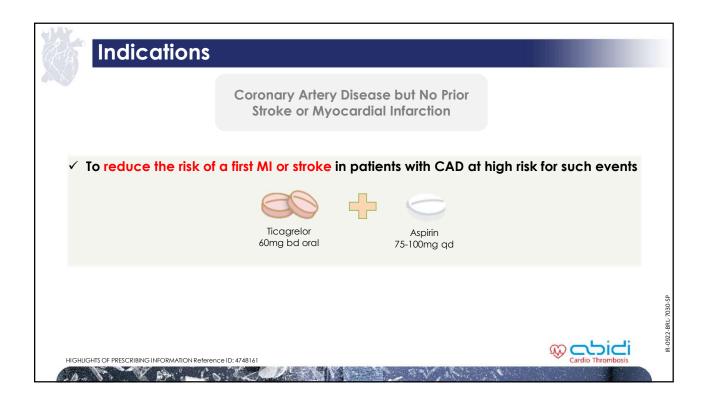
Heart. 2010;96:656-61

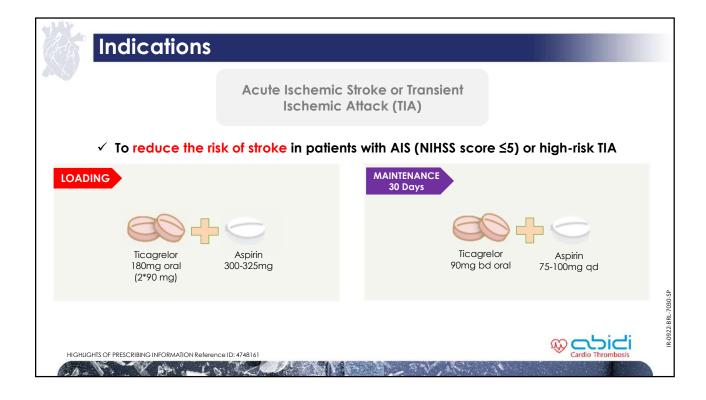
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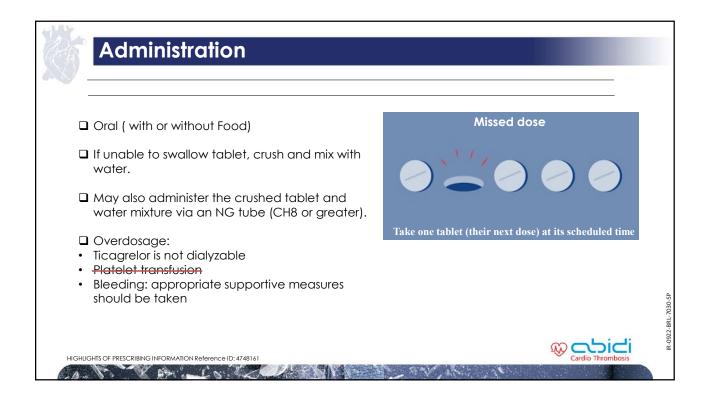


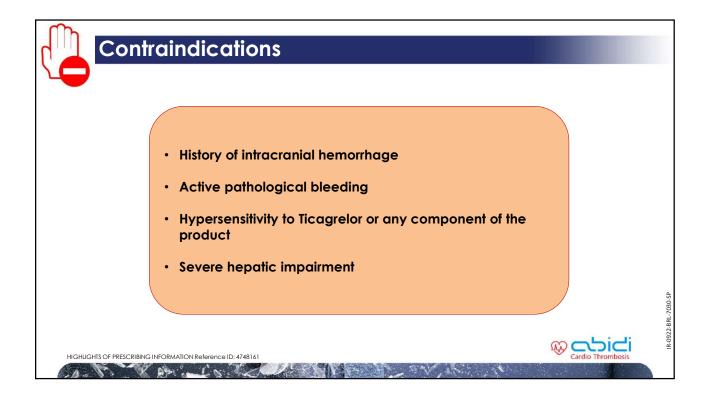


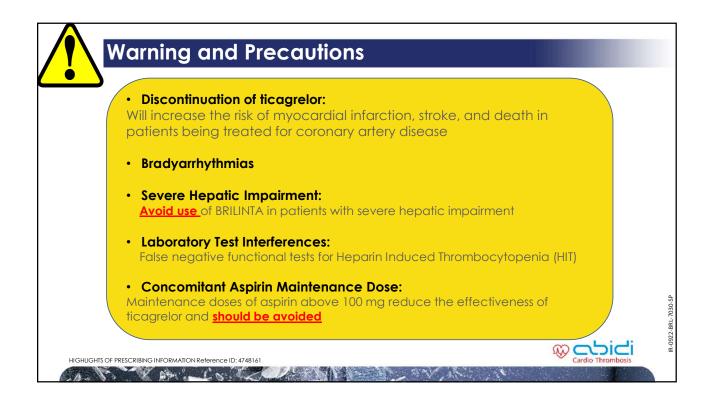


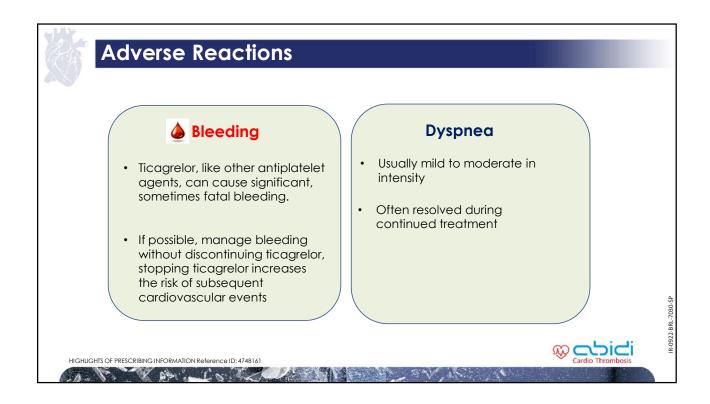


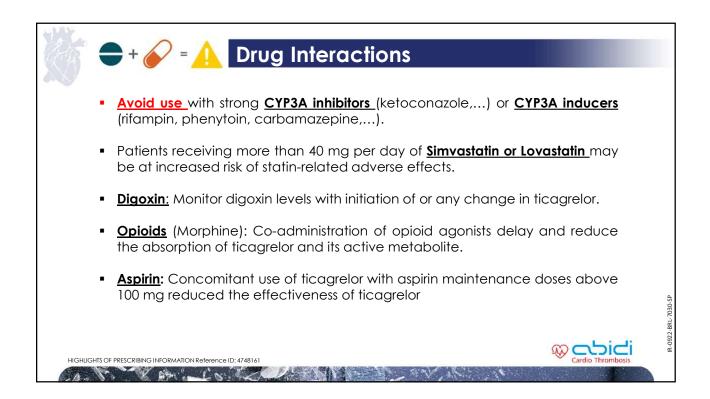




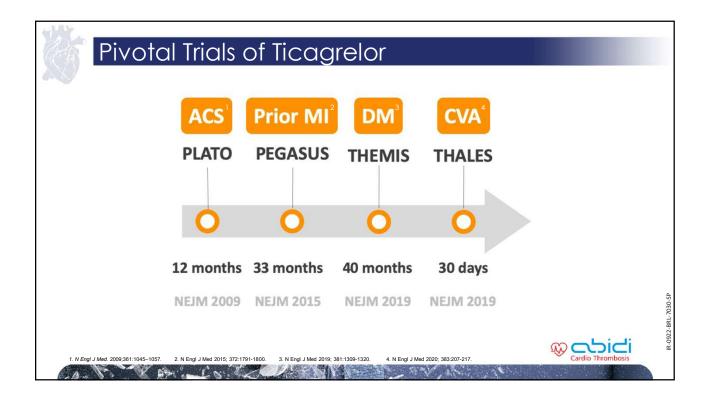




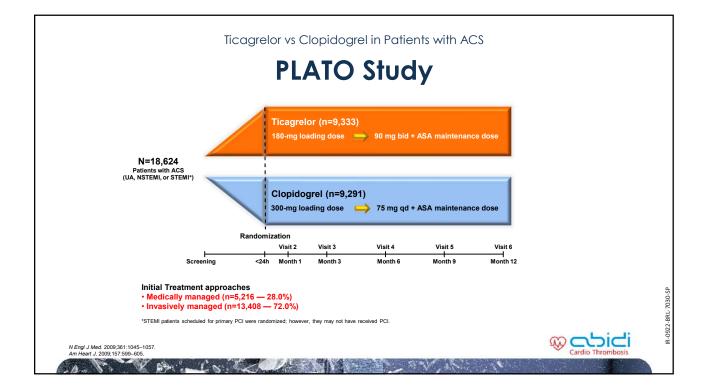


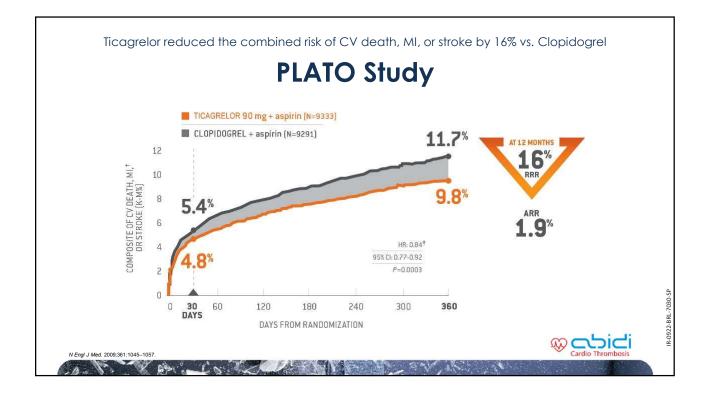


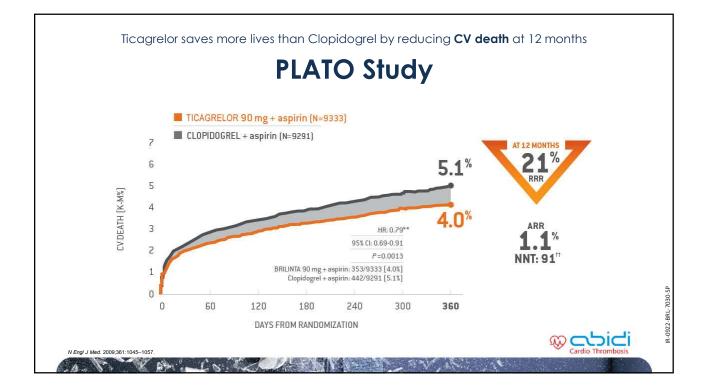


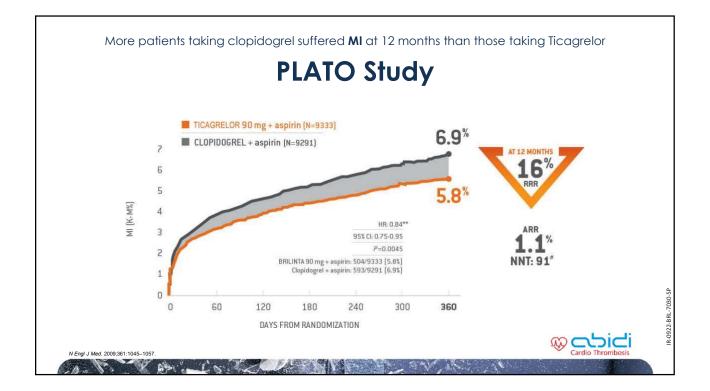


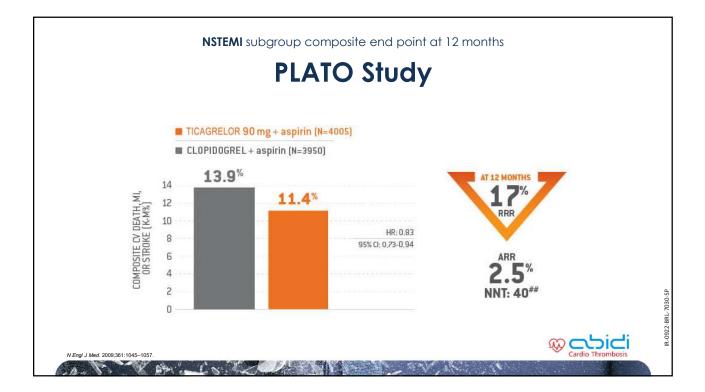
	PLATO Study
	Randomized, placebo-controlled, double-blind
	ether ticagrelor is superior to clopidogrel for the prevention of vascular events and
leath in a broad p	population of patients presenting with an acute coronary syndrome.
18.624	Eligible patients
18,624 Patients	 Eligible patients Hospitalized patients for an ACS, with or without ST-segment elevation An onset of symptoms during the previous 24 h
•	 Hospitalized patients for an ACS, with or without ST-segment elevation An onset of symptoms during the previous 24 h Major exclusion criteria
Patients	 Hospitalized patients for an ACS, with or without ST-segment elevation An onset of symptoms during the previous 24 h

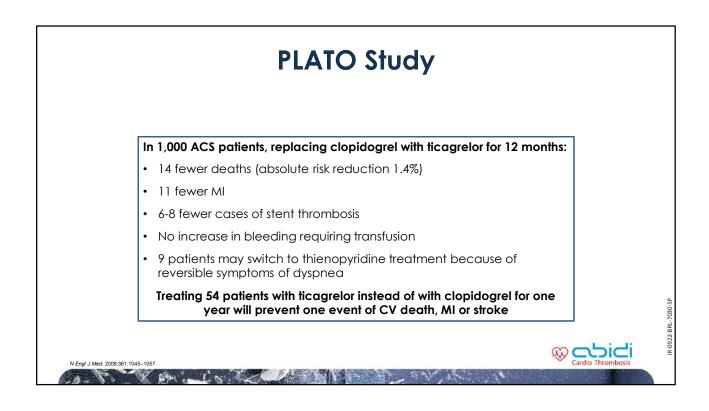




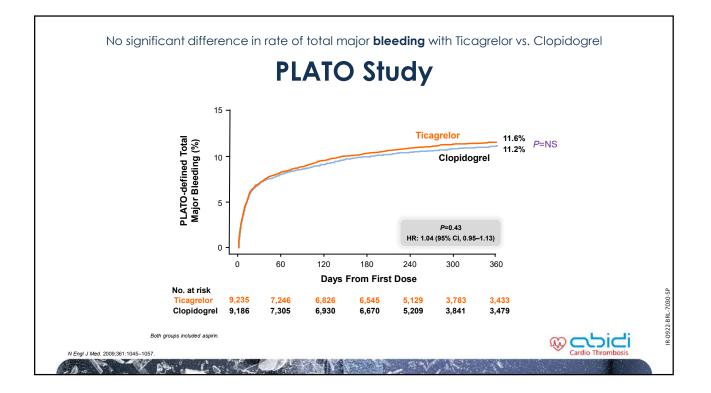


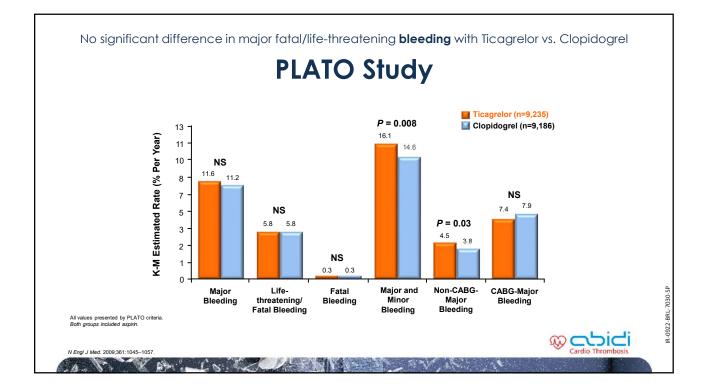


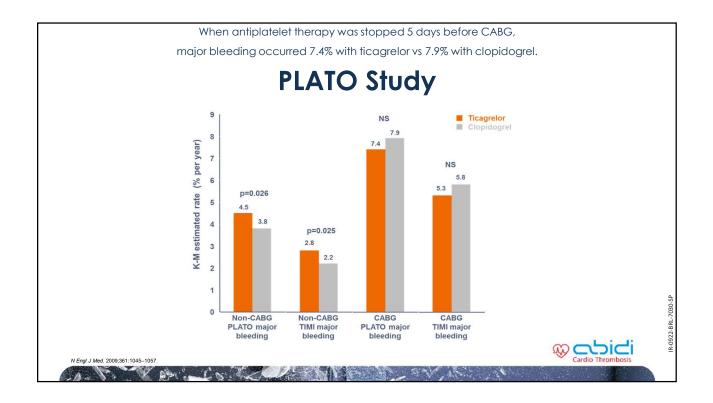




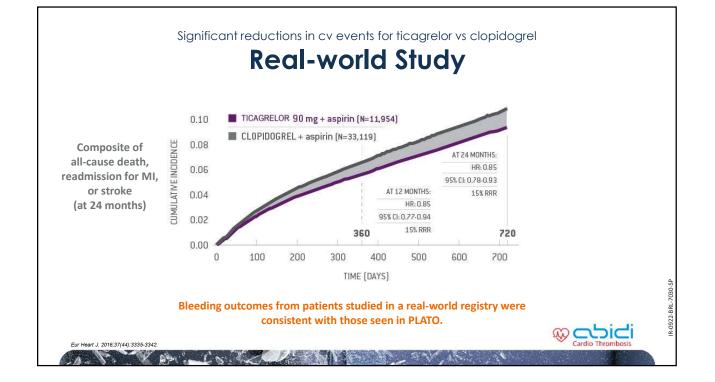
	PLATO	Study	7		
	Dyspnoea in the PLATO trial	Ticagrelor	Clopidogrel	P Value	
	Incidence of dyspnoea adverse events (%)	13.8	7.8	<0.001	
	Patients who discontinued treatment due to dyspnoea (%)	0.9	0.1	<0.001	
			rity and did na	t reduce effi	
Most e	elor-associated dyspnea was mostly mild to mo events were reported as single episode occurring sociated with new or worsening heart or lung dis	g early after st			Lucy.
Most e	vents were reported as single episode occurring	g early after st sease.	arting treatme		Lucy.
Most e	wents were reported as single episode occurring sociated with new or worsening heart or lung dis	g early after st sease. relor is self-liı	arting treatme	ent.	sucy.







	TICAGRELOR REAL-WORLD STUDY	PLATO
TRIAL DESIGN	Observational study using SWEDEHEART registry	Randomized, double-blind, controlled comparative study
PATIENT TYPE	Acute MI patients enrolled in the SWEDEHEART registry discharged on aspirin and either Ticagrelor or clopidogrel from 2010 to 2013	International ACS patients hospitalized with or without ST-segment elevation, with an onset of symptoms within 24 hours
NUMBER OF PATIENTS	45,073	18,624
STUDY PERIOD	24 months	12 months
TICAGRELOR DOSAGE	90 mg twice daily	90 mg twice daily
ASPIRIN DOSAGE	75 mg daily	75-100 mg daily maintenance dose



ope	n label, double-blind, randomized controlled trial
	a P_2Y_{12} inhibitor after a minimum period of dual antiplatel ng approach to reduce the risk of bleeding after PCI.
	Eligible patients:
7,119 Patients	 Eligible patients: High ischemia- or bleeding- risk patients where underwent successful PCI with at least one DES are had successfully tolerated DAPT for 3 months post-Parameters

