Optimal Antithrombotic Therapy After PCI in Japan:

Why We Are Going Our Own Way?

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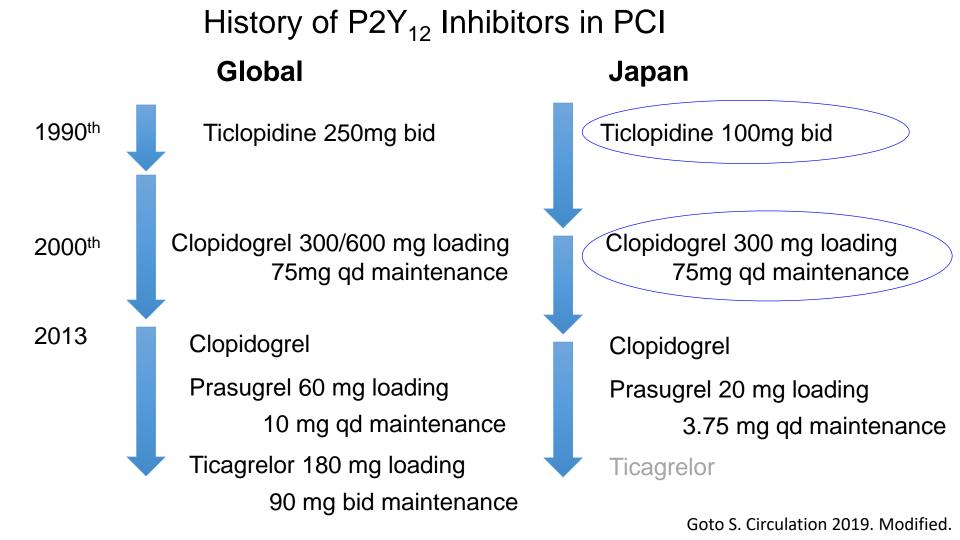




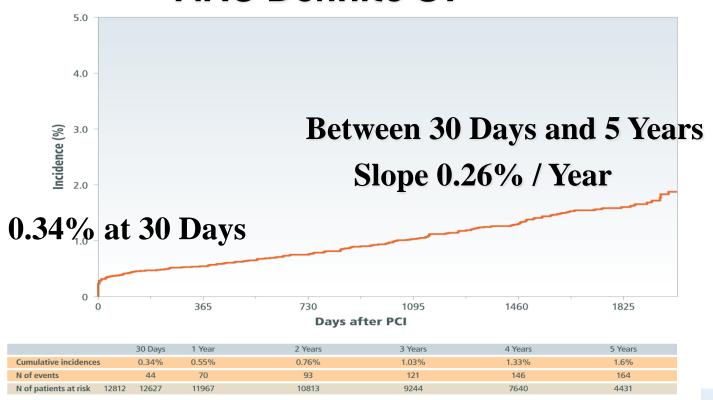
Disclosures

Name of Author : Takeshi Kimura

ABBOTT Vascular, Boston Scientific, Daiichi-Sankyo, Sanofi, and Bayer

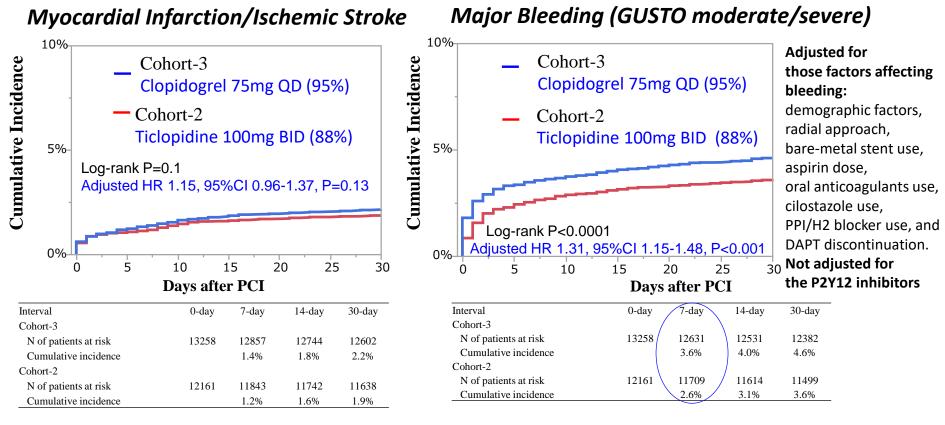


Stent Thrombosis of SES J-CYPHER Registry ARC Definite ST



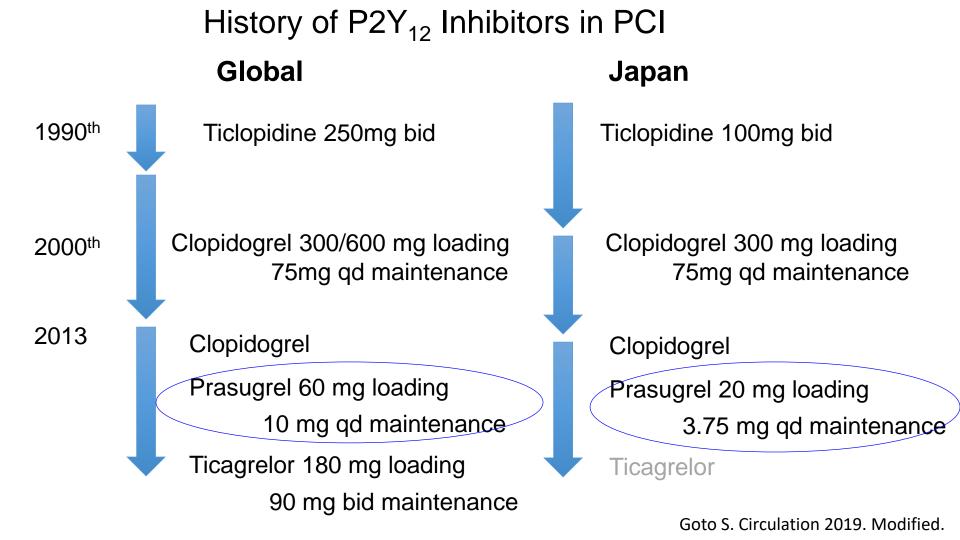
Kimura T, et al. Circulation 2012;125:584-591.

Historical Comparison of the 30-day Outcomes in PCI patients between CREDO-Kyoto Registry Cohort-2 and Cohort-3



Japanese dose ticlopidine compared with global dose clopidogrel was associated with lower risk for major bleeding without increased ischemic risk.

Natsuaki M, et al. Circ J. 2021.



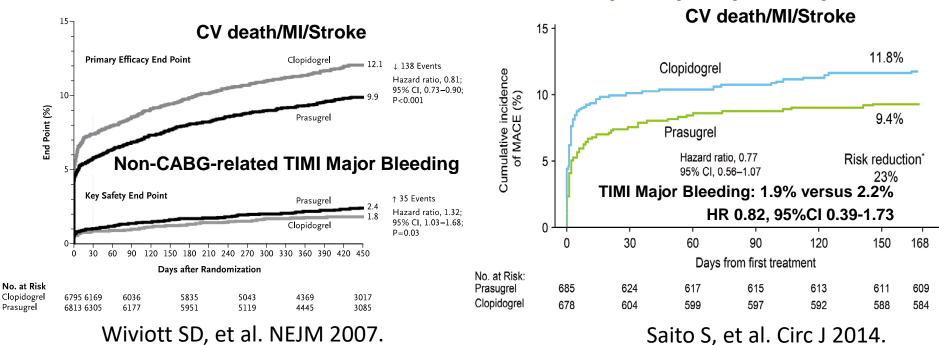
Prasugrel: Global dose versus Japanese dose

TRITON-TIMI 38

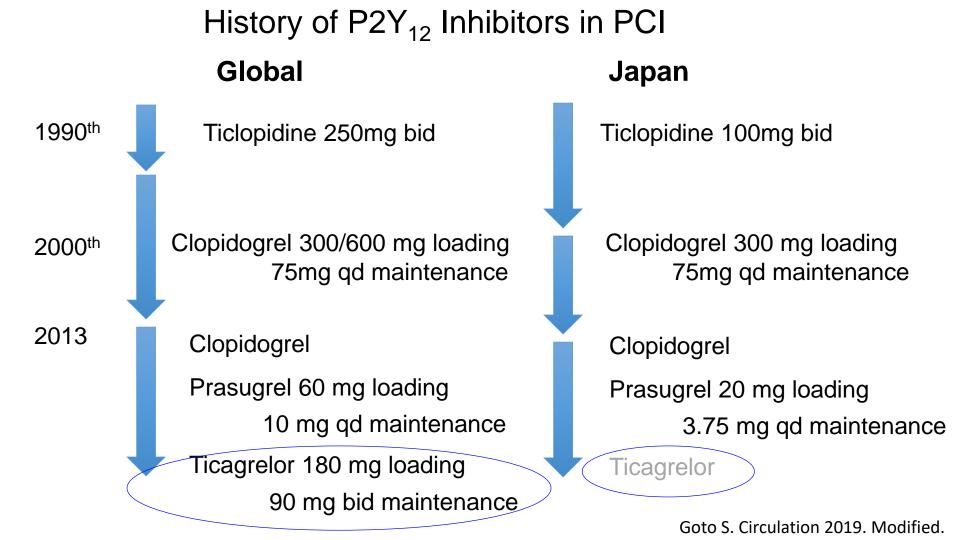
Prasugrel: 60mg loading and 10mg maintenance

PRASFIT-ACS

Prasugrel: 20mg loading and 3.75mg maintenance

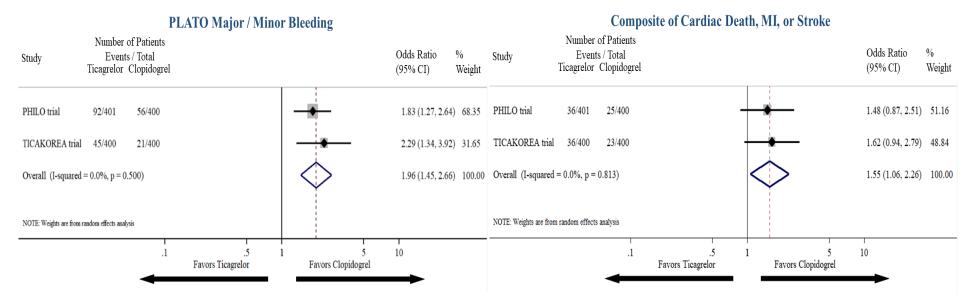


Japanese dose prasugrel compared with global dose prasugrel was associated with similar efficacy in reducing CV events without increased bleeding risk, although the PRASFIT-ACS was an underpowered study.



Pooled Analysis of PHILO and TICAKOREA

Ticagrelor versus Clopidogrel in ACS Patients

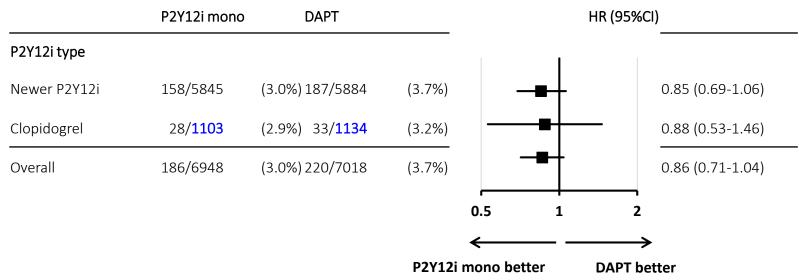


Goto S, et al. Circ J 2015.

Park DW, et al. Circulation 2019.

SIDNEY-2: Individual Patient Meta-analysis of Trials Comparing P2Y₁₂ inhibitor Monotherapy or Dual Antiplatelet therapy

Metaanalysis including 5 short DAPT studies, ACS subset



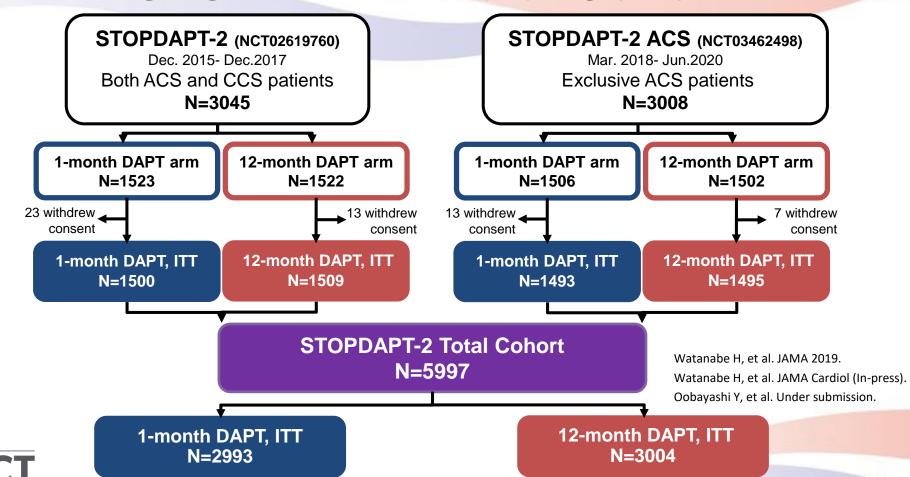
Death, MI and Stroke (1-year)

However, monotherapy with newer P2Y12i was the dominant strategy in ACS patients in these very short DAPT studies. Global doses of newer P2Y12i are never used in Japan, and therefore, we have to generate our own data supporting further de-escalation of antithrombotic therapy to guide the practice in Japan.

ESC CONGRESS 2021 THE DIGITAL EXPERIENCE

Valgimigli M, et al. BMJ 2021.

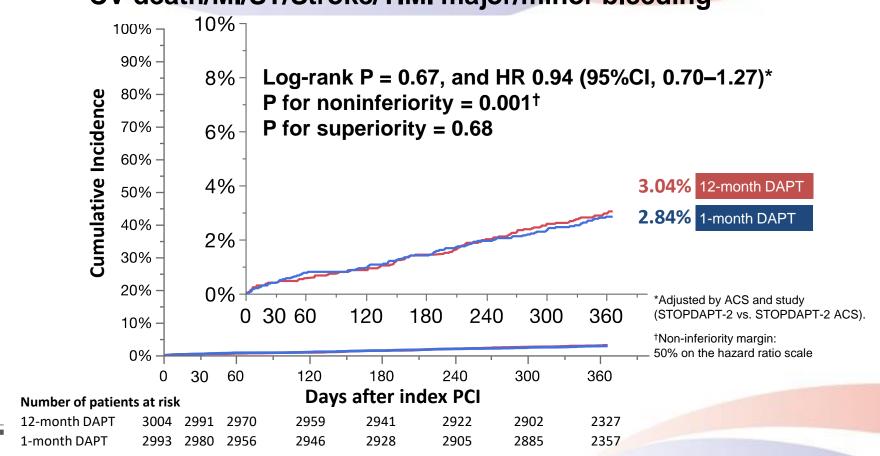
STOPDAPT-2 Total cohort STOPDAPT-2 Total Cohort



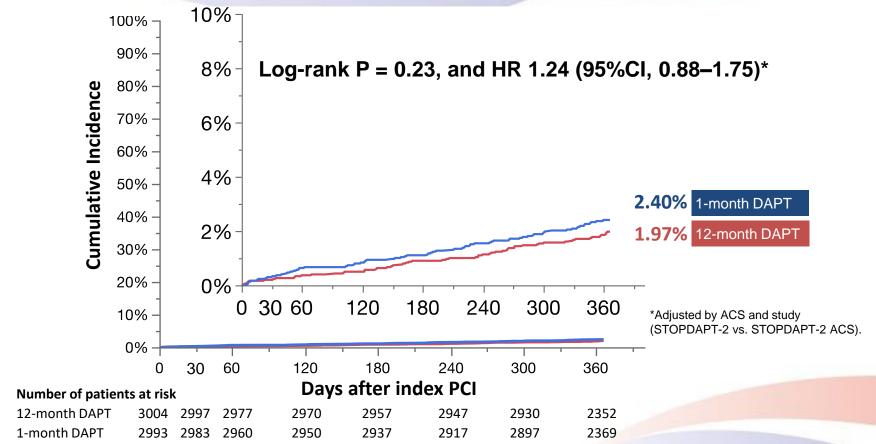
^t Primary Endpoint CV death/MI/ST/Stroke/TIMI major/minor bleeding

STOPDAPT-2

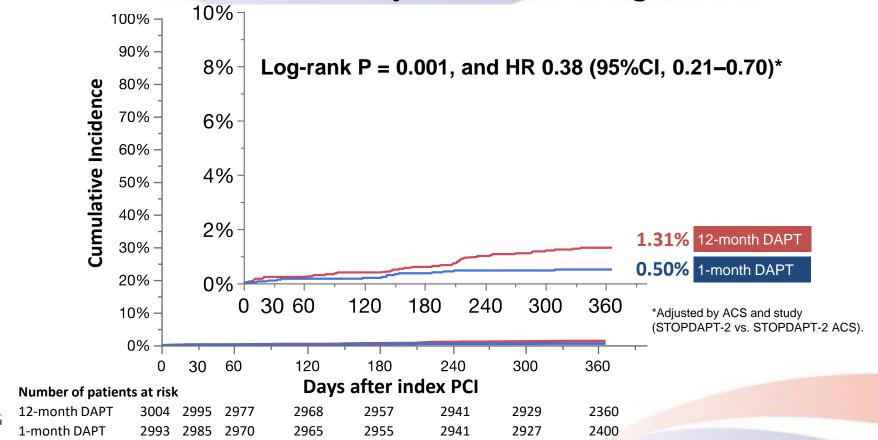
Total cohort



CV death/MI/ST/Stroke



TIMI major/minor bleeding

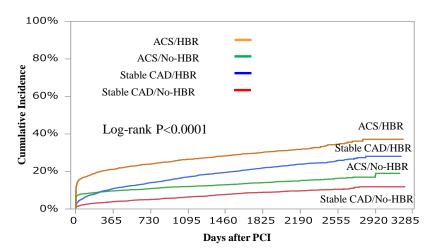




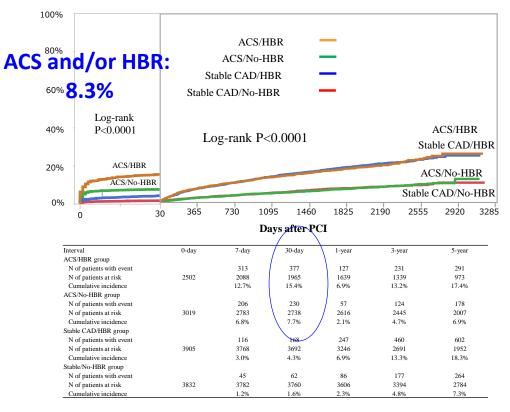
ACS/CCS Subgroup Analysis

	-	ncidence nt/subtotal N)					
		12-month DAP	T Absolute difference			P value	D
	(N=2993)	(N=3004)	(95%CI)	(95%CI)			interacti
Primary End	lpoint				1		
ACS	3.20%	2.83%	0.40%	1.14		• 0.47	0.052
	65/2058	58/2078	(-0.68% to 1.42%)	(0.80-1.62)	Γ		
CCS	2.05%	3.49%	-1.44%	0.59		0.06	0.052
	19/935	32/926	(-2.95% to 0.07%)	(0.33-1.03)	-		
Major Seco	ndary Cardiovascular	Endpoint					
ACS	2.76%	1.86%	0.90%	1.50		- 0.053	0.00
	56/2058	38/2078	(-0.02% to 1.82%)	(0.99-2.27)	-		
CCS	1.62%	2.21%	-0.59%	0.74		- 0.39	0.08
	15/935	20/926	(-1.85% to 0.67%)	(0.38-1.45)	-		
Major Seco	ndary Bleeding Endp	oint					
ACS	0.54%	1.17%	-0.63%	0.46		0.03	
	11/2058	24/2078	(-1.20% to -0.06%)	(0.23-0.94)	-		
CCS	0.43%	1.63%	-1.20%	0.26		0.02	0.40
	4/935	15/926	(-2.13% to -0.27%)	(0.09-0.79)	-		
					0.0525 0.25 1	7	
^T					0.0625 0.25 1	4	\rightarrow
					1-month DAPT better 12-	month DAP	T bette

CREDO-Kyoto PCI/CABG Registry Cohort-3 ACS/HBR Analysis Major Bleeding (BARC type 3 or 5)

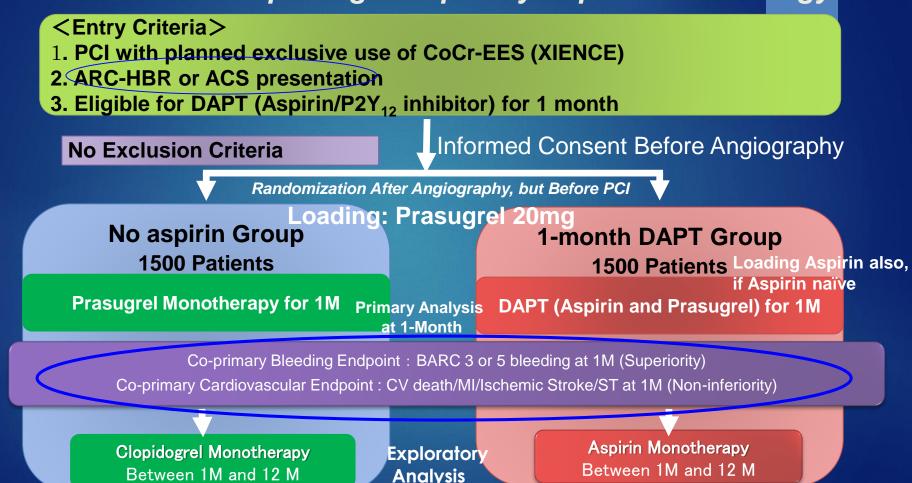


Interval	0-day	30-day	1-year	3-year	5-year
ACS/HBR group					
N of patients with event		377	504	608	668
N of patients at risk	2502	1965	1639	1339	973
Cumulative incidence		15.4%	21.2%	26.5%	30.1%
ACS/No-HBR group					
N of patients with event		230	287	354	408
N of patients at risk	3019	2738	2616	2445	2007
Cumulative incidence		7.7%	9.6%	12.0%	14.0%
Stable CAD/HBR group					
N of patients with event		168	415	628	770
N of patients at risk	3905	3692	3246	2691	1952
Cumulative incidence		4.3%	10.9%	17.1%	21.9%
Stable/No-HBR group					
N of patients with event		62	148	 239 	326
N of patients at risk 3832		3760	3606	3394	2784
Cumulative incidence		1.6%	3.9%	6.4%	8.8%



Natsuaki M, et al. Circ J. 2021.

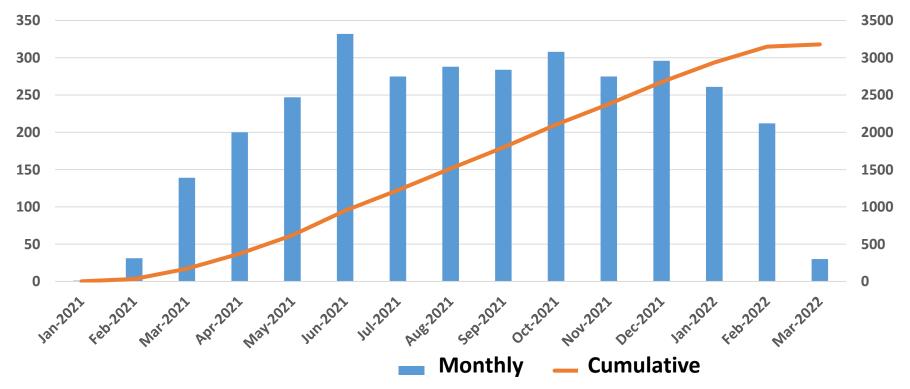
STOPDAPT-3 Trial Exploring Completely Aspirin-free Strategy



STOPDAPT-3 Enrollment Status (Target: 3110 patients)

2022. 3. 4 3179 patients (ACS N=2248, Non-ACS HBR N=931)

2021/1/29 ~ 2022/3/4



STOPDAPT-3: Event rates at 30-day in the initial 1200 patients (Blinded evaluation, Adjudicated)

Outcome	N (%)	Assumed event rate
Co-primary bleeding endpoint (BARC 3 or 5 Bleeding)	50 (4.2%)	5.8%
Co-primary CV endpoint (CVD, MI, Definite ST, Ischemic Stroke)	39 (3.3%)	6.2%
Death	23 (1.9%)	
CVD	23 (1.9%)	
MI	9 (0.8%)	
Definite ST	3 (0.3%)	
Stroke	9 (0.8%)	
Ischemic	7 (0.6%)	
Hemorrhagic	2 (0.2%)	
BARC 3	45 (3.8%)	
BARC 5	5 (0.4%)	

Conclusions

Antithrombotic therapy in ACS patients in Japan as compared with outside Japan has already been de-escalated with use of low intensity $P2Y_{12}$ inhibitor. Therefore, we have to generate our own data supporting further de-escalation of antithrombotic therapy to guide the clinical practice in Japan.

The STOPDAPT-2 trial has suggested safety and efficacy of 1-month DAPT followed by clopidogrel monotherapy after PCI in Japanese patients.

We are currently conducting the STOPDAPT-3 trial, which would be an adequately powered trial exploring completely aspirin-free strategy without any DAPT background in an attempt to reduce major bleeding early after PCI in ACS and/or HBR patients.