Stopping Aspirin Within 1 Month After Stenting for Ticagrelor Monotherapy in Acute Coronary Syndrome: The T-PASS Randomized Noninferiority Trial

Conclusions

- Orsiro DES showed significantly less net adverse clinical events when stopping aspirin within 1 month compared to 12-month DAPT in ACS patients.^{a,1}
- ACS patients treated with Orsiro DES have a reduced bleeding risk when stopping aspirin within 1 month compared to 12-month DAPT.^{b,1}
- Orsiro DES proves to be safe when combined with <1-month DAPT in ACS patients. a,1

Study design

Investigator-initiated, prospective, multicenter, open-label, randomized (1:1), non-inferiority trial comparing ticagrelor monotherapy after <1 month of DAPT to 12 months of DAPT after using Orsiro in ACS Patients.

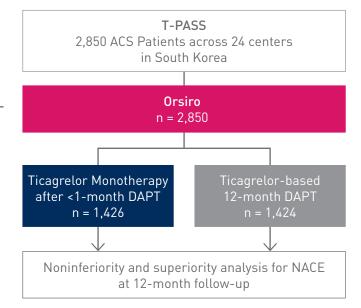
Endpoints at 12-month follow-up

Primary endpoint

• Net Adverse Clinical Events (NACE)

Selected Secondary Endpoints

- Major Bleeding (BARC 3-5)
- Death, myocardial infarction, stent thrombosis or stroke

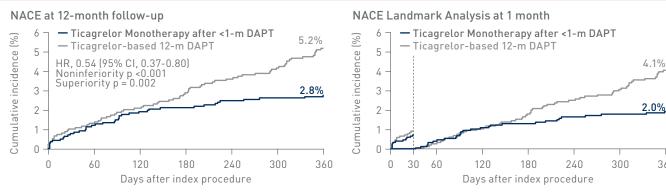


Patient characteristics ¹	Ticagrelor Monotherapy after <1-m DAPT n = 1,426		Ticagrelor- based 12-m DAPT n = 1,424	
Age, mean (SD), years	61 ± 10		61 ± 10	
Men	1,193	84%	1,181	83%
BMI, mean (SD), kg/m ²	25.1 ± 3.6		25.0 ± 3.5	
Hypertension	669	47%	679	48%
Diabetes mellitus	422	30%	408	29%
Chronic kidney disease	118	8%	104	7%
Current smoker	557	39%	537	38%
Prior MI	27	2%	25	2%
Prior PCI	92	7%	92	7%
Prior CABG	4	<1%	2	<1%
Prior stroke	43	3%	49	3%

Procedural characteristics ¹	Ticagrelor Monotherapy after <1-m DAPT n = 1,426		Ticagrelor- based 12-m DAPT n = 1,424	
Admission via emergency room	1,056	74%	1,050	74%
Clinical presentation				
Unstable angina	347	24%	361	25%
Non-ST-elevation MI	507	36%	485	34%
ST-elevation MI	572	40%	578	41%
Transfemoral approach	467	33%	470	33%
Bifurcation lesion	219	15%	215	15%
Multivessel coronary artery disease	749	53%	738	52%
Multi-lesion intervention	299	21%	279	20%
Multi-vessel intervention	233	16%	231	16%
Treated lesions per patient, mean	1.3 ± 0.5		1.2 ± 0.5	
Number of stents per patient, mean	1.4 ± 0.8		1.4 ± 0.7	
Stent length per patient, mm	38 ± 23		37 ± 22	

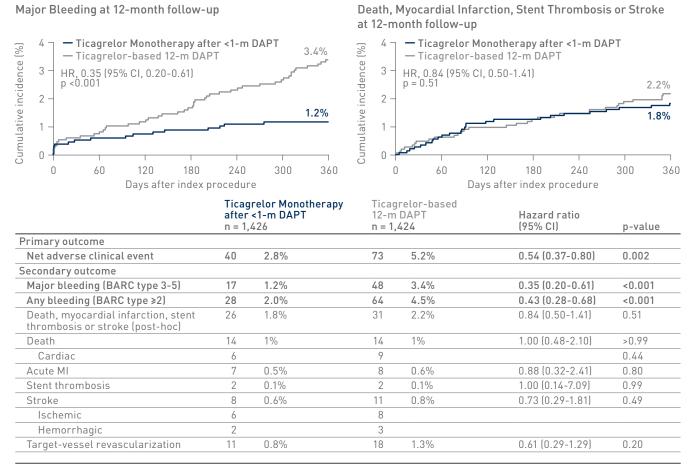


Orsiro DES shows significantly less net adverse clinical events with <1-month DAPT compared to 12-month DAPT in ACS patients.^{a,1}



Selected Secondary Endpoints at 12-month follow-up¹

With Orsiro DES less than 1-month DAPT reduces major bleeding without compromising safety compared to 12-months DAPT in ACS patients.^{c,1}



Principal investigator

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ACS: Acute Coronary Syndrome, BARC: Bleeding Academic Research Consortium, CABG: Coronary Artery By-Pass Graft, CI: Confidence Interval, DAPT: Dual Antiplatelet Therapy, DES: Drug-Eluting Stent, HR: Hazard Ratio, MACE: Major Adverse Cardiac Events (cardiovascular death, myocardial infarction, stent thrombosis, and ischemia-driven target-vessel revascularization), NACE: Net Adverse Clinical Event (all-cause death, myocardial infarction, stent thrombosis, stroke, and major bleeding), PCI: Percutaneous Coronary Intervention, SD: Standard Deviation, ST: Stent Thrombosis

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a. At 1 year, for DAPT with ticagrelor and NACE*; b. At 1 year, for DAPT with ticagrelor and major bleeding BARC 3-5*; c. At 1 year, for DAPT with ticagrelor, major bleeding as BARC 3-5, and MACE*. 1. Hong, Sung-Jin, et al. "Stopping Aspirin Within 1 Month After Stenting for Ticagrelor Monotherapy in Acute Coronary Syndrome: The T-PASS Randomized Noninferiority Trial." Circulation, 2023.

^{*} Orsiro DES is not indicated for DAPT of one month or less in ACS patients. Please refer to the IFU for indications and post-procedure antiplatelet therapy recommendations. Clinical data collected with the Orsiro DES device within the Orsiro family clinical program.