

American College of Cardiology 75th Annual Scientific Session Late-Breaking Clinical Trial, April 8, 2024

PREVENT

Preventive PCI versus Medical Therapy Alone for Treatment of Vulnerable Atherosclerotic Coronary Plaques

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Disclosure

- The PREVENT trial was supported by an investigator-initiated grant from the CardioVascular Research Foundation, Abbott, Yuhan Corp, CAH-Cordis, Philips, and Infraredx, a Nipro company.
- The funders did not participate in the trial design, data analysis, or manuscript preparation.

Background

- Intracoronary imaging defined vulnerable plaque (VP) has more tendency to increase major adverse cardiac events.
- Optimal medical therapy (OMT) is the standard approach to stabilise plaque vulnerability.
- The safety and effectiveness of focal preventive percutaneous coronary intervention (PCI) of non-flow limiting VP are unknown.

 To assess whether focal preventive PCI of non-flow-limiting, imaging defined vulnerable plaques improves clinical outcomes compared with OMT alone.

Trial Organization

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Executive Committee Seung-Jung Park (Trial Chair), Duk-Woo Park (Co-PI), Gregg W. Stone (Co-PI) Jung-Min Ahn, Do-Yoon Kang

Additional Steering Committee Young-Keun Ahn, Won-Jang Kim, Chang-Wook Nam

Event Adjudication Committee Hanbit Park, Junghoon Lee, Ju Hyeon Kim, Jinho Lee, Hoyun Kim Yeonwoo Choi, Sangyong Jo, Kyung-Ae Kim

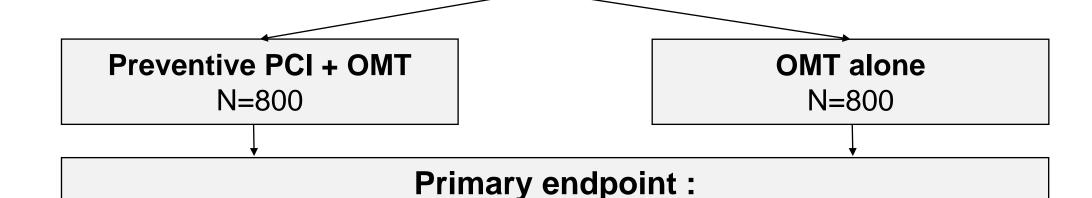
Data & Safety Monitoring Board June-Hong Kim, Kyoung-Ha Park, Jong-Min Song, Jon Suh Elly, Jeong-youn Bae

Participating Investigators (15 Sites in South Korea, Japan, Taiwan, and New Zealand)

Seung-Jung Park, Jung-Min Ahn, Do-Yoon Kang, Sung-Cheol Yun, Duk-Woo Park (Asan Medical Center); Young-Keun Ahn (Chonnam National University Hospital); Won-Jang Kim, Se Hun Kang (CHA Bundang Medical Center); Chang-Wook Nam (Keimyung University Dongsan Hospital); Jin-Ok Jeong, Si-Wan Choi (Chungnam National University Hospital); In-HoChae (Seoul National University Bundang Hospital); Hiroki Shiomi (Kyoto University Hospital); Hsien-Li Kao (National Taiwan University Hospital); Joo-Yong Hahn (Samsung Medical Center); Sung-Ho Her, Gyu-Seop Lee (The Catholic University of Korea, Daejeon ST. Mary's Hospital); Bong-Ki Lee (Kangwon national University Hospital); Tae Hoon Ahn, Woong Chol Kang (Gachon University Gil Medical Center); Ki-Yuk Chang (The Catholic University St. Mary's Hospital); Jei Keon Chae (Jeonbuk National Univetsity Hospital); David Smyth (Christchurch Hospital).

Coronary Stenosis (>50%) with Negative FFR (≥ 0.80) and meeting two of the following (Imaging defined VP)

- 1. MLA ≤4.0mm²
- 2. Plaque Burden >70%
- 3. TCFA by OCT or RF-IVUS
- 4. Lipid-Rich Plaque by NIRS (_{max}LCBI_{4mm}>315)



Target Vessel Failure at 2 years

- 1. Men or women at least age ≥ 18 years.
- 2. Patients with angiographically significant stenosis (>50%) with negative FFR (>0.80) and meeting two of the following, (Imaging defined vulnerable plaque)
 - 1) $MLA < 4mm^2$
 - 2) Plaque burden >70%
 - 3) TCFA detected by RF-IVUS or OCT
 - 4) Large lipid-rich plaque on NIRS (maxLCBI_{4mm} >315)
- 4. Eligible for PCI with Absorb BVS or EES
- 5. Reference vessel diameter 2.75 4.0 mm
- 6. Lesion length ≤40 mm

Major Exclusion Criteria

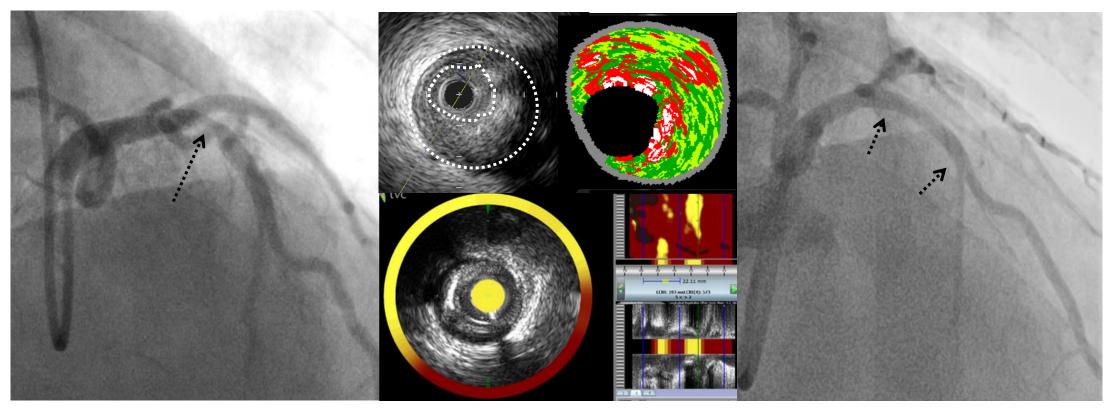
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- 1. Patients in whom the preferred treatment is CABG.
- 2. Previously stented lesion
- 3. Bypass graft lesion
- 4. Patients with 3 or more target lesions
- 5. Patients with 2 target lesions in the same coronary artery
- 6. Heavily calcified or angulated lesion
- 7. Bifurcation lesion requiring 2-stent technique
- 8. Contraindication to or planned discontinuation of dual antiplatelet therapy within 1 year

- During the initial recruitment period of the trial, PCI was performed with BVS (Absorb; Abbott). Following the withdrawal of BVS, cobaltchromium everolimus-eluting metallic stents (Xience; Abbott) were used for the default device of PCI.
- Intravascular imaging of all target lesions was performed.
- Patients received dual antiplatelet therapy for at least 6 or 12 months after PCI according to clinical presentation and anatomical complexity.
- Clinical follow-up was done at 1, 6, 12, and 24 months and every year thereafter. Follow-up continued annually in all enrolled patients until the last enrolled patient reached 2 years after randomization.

Procedure

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Diameter stenosis 70%, FFR 0.83

MLA 2.11 mm²
Plaque burden 79%
TCFA by RF-IVUS
maxLCBI_{4mm} 573

Absorb (BVS)
3.5 mm x 18 mm

• Target Vessel Failure (a composite of death from cardiac causes, target-vessel myocardial infarction, ischemia-driven target-vessel revascularization, or hospitalization for unstable or progressive angina) at 2 years after randomization

Secondary Endpoint

- Individual components of the primary composite outcome
- Patient-oriented composite of all-cause death, all myocardial infarctions, or any repeat revascularization
- Procedural safety outcomes
- Stroke
- Bleeding events
- Number of anti-anginal medications used at each time point

Statistical Considerations

Power Calculation (N = 1,600)

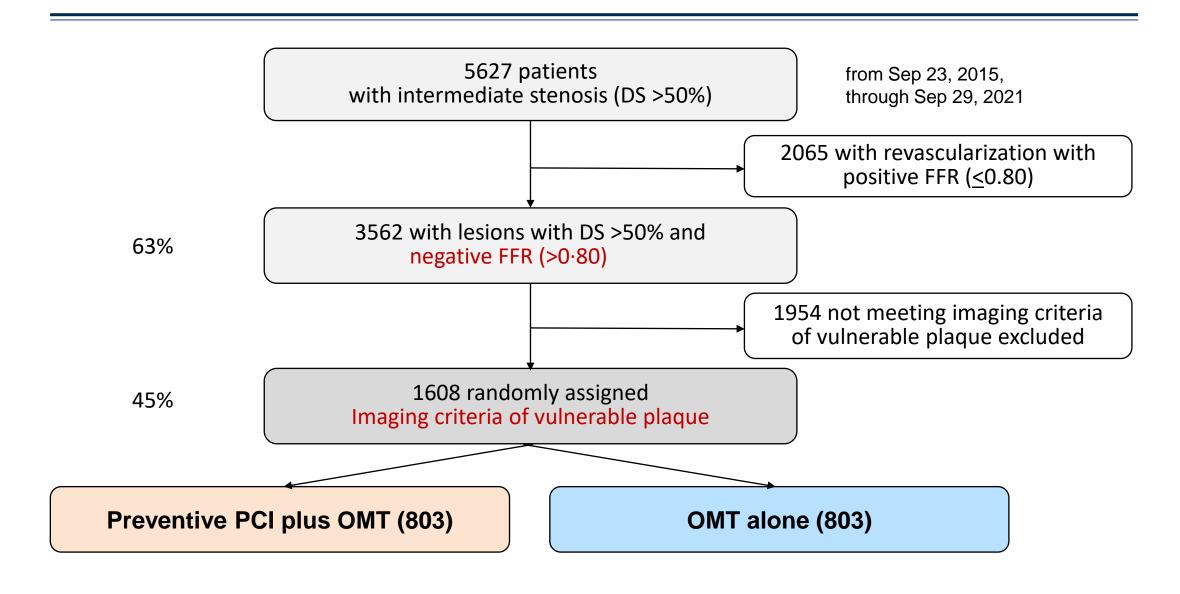
- Assuming an incidence of the primary outcome at 2-years of 8.5% for preventive PCI group and 12.0% for OMT alone group (30% relative risk reduction),
- A sample size of 1600 patients provided 80% power at a two-sided significance level of 5%, assuming a 7% loss to follow-up and crossover rate.

Pre-Specified Statistical Analysis

- Primary intention-to-treat analysis
- Time-to-first-event estimate with Kaplan–Meier methodology
- Cox proportional hazard models to estimate the treatment effects
- Sensitivity analyses in the per-protocol and as-treated populations
- Absolute differences and 95% confidence intervals calculated at 2 years (primary outcome), 4 years (median follow-up), and 7 years (maximum follow-up)
- An interaction term between randomized groups and key subgroups for primary outcome.

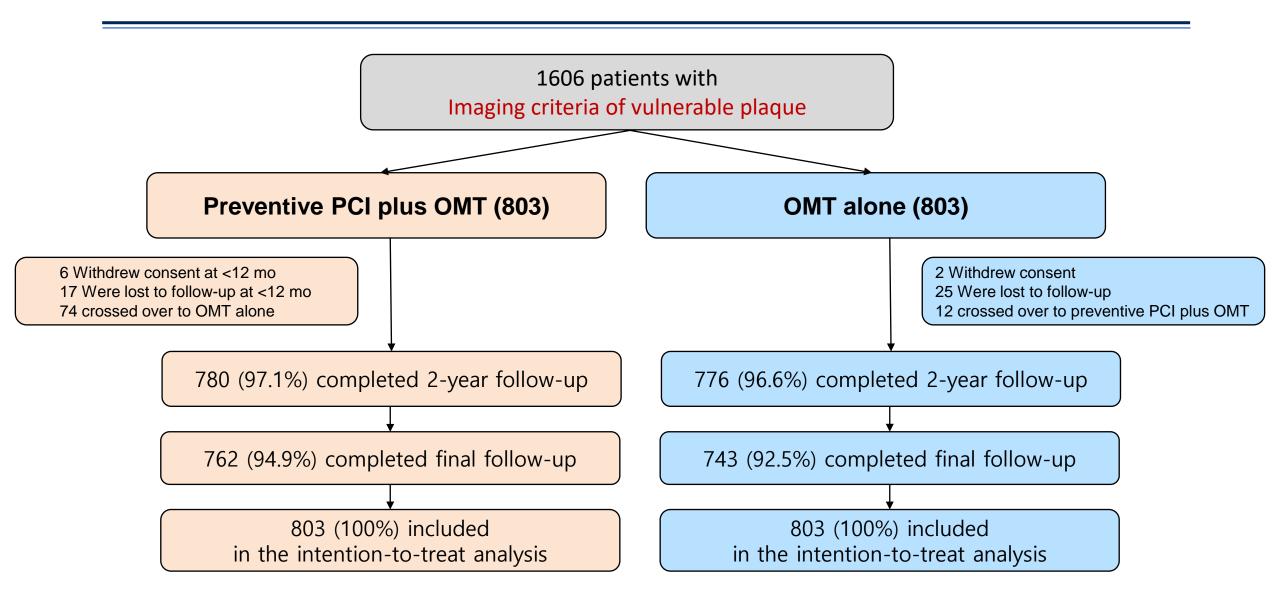
Patient Flow and Follow Up





Patient Flow and Follow Up

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Baseline Characteristics

	Preventive PCI plus OMT (N=803)	OMT alone (N=803)
Age — years	64 (58 – 71)	65 (59 – 71)
Female sex	197 (25%)	232 (29%)
Body-mass index — kg/m ²	24.6 (22.9 – 26.5)	24.7 (22.9 – 26.4)
Diabetes mellitus — no. (%)	244 (30%)	246 (31%)
Hypertension — no. (%)	519 (65%)	536 (67%)
Dyslipidemia — no. (%)	721 (90%)	709 (88%)
Current smoking — no. (%)	136 (17%)	139 (17%)
Previous PCI — no. (%)	109 (14%)	85 (11%)
History of cerebrovascular disease — no. (%)	52 (6%)	50 (6%)
Left ventricular ejection fraction [%], (N=843) [†]	63 (60 – 66)	63 (60 – 66)
Clinical presentation — no. (%)		
Stable angina or silent ischemia	670 (83%)	677 (84%)
Unstable angina	106 (13%)	91 (11%)
Non-ST elevation myocardial infarction	18 (2%)	28 (3%)
ST-elevation myocardial infarction	9 (1%)	7 (1%)

Data are median (inter-quartile range), or n (%). †Preventive percutaneous coronary intervention group n=485; optimal medical therapy group n=358.

Anatomic Characteristics

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	Preventive PCI plus OMT (N=831)	OMT alone (N=841)
Qualifying criteria for target lesions [†]	N=831	N=841
MLA <4.0 mm ² by gray-scale IVUS or OCT	809 / 831 (97%)	817 / 841 (97%)
Plaque burden >70% by gray-scale IVUS	792 / 815 (97%)	805 / 831 (97%)
Large lipid-rich plaque by NIRS (maxLCBI _{4mm} >315)	99 / 348 (28%)	94 / 369 (26%)
TCFA defined by OCT or radiofrequency IVUS	39 / 571 (7%)	40 / 679 (6%)
Target lesion location		
Left anterior descending artery	416 (50%)	400 (48%)
Left circumflex artery	170 (20%)	147 (17%)
Right coronary artery	245 (29%)	294 (35%)
Median FFR values of target lesions	0.87 (0.83 – 0.90)	0.86 (0.83 – 0.90)
QCA of target lesions		
Diameter stenosis — %	56.6 (9.2)	52.6 (9.8)
Minimal lumen diameter — mm	1.3 (0.3)	1.5 (0.4)
Reference vessel diameter — mm	3.1 (0.4)	3.1 (0.5)
Lesion length — mm	23.6 (8.5)	19.3 (8.3)

Data are median (inter-quartile range), or n (%). †Preventive percutaneous coronary intervention group n=485; optimal medical therapy group n=358.

Core Lab-Imaging Analysis

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	Preventive PCI plus OMT (N=831)	OMT alone (N=841)
IVUS measurements	N = 811	N = 830
Lesion length — mm	23.7 (8.7)	22.6 (9.1)
Minimal lumen area — mm²	2.78 (0.87)	2.83 (0.87)
Minimal lumen area ≤4.0 mm ²	784 / 811 (97%)	801/830 (97%)
Plaque burden — %	75.9 (6.9)	76.4 (4.4)
Plaque burden >70%	718 / 809 (89%)	753 / 829 (91%)
NIRS measurements	N = 348	N = 369
Plaque-level maxLCBI _{4mm} > 315	144 (41%)	138 (37%)
RF-IVUS measurements	N = 456	N = 575
TCFA defined by RF-IVUS	57 / 465 (13%)	73 / 575 (13%)
OCT measurements	N = 63	N = 21
TCFA defined by OCT	11 / 63 (18%)	7 / 21 (33%)
No∙ of high-risk plaque features [†]		
Lesions with ≥2 of 4 high-risk features	736 (89%)	760 (90%)
Lesions with ≥3 of 4 high-risk features	163 (20%)	177 (21%)
Lesions with 4 of 4 high-risk features	12 (1%)	13 (2%)

Data are median (inter-quartile range), or n (%). †Preventive percutaneous coronary intervention group n=485; optimal medical therapy group n=358.

Procedural Characteristics

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	Preventive PCI plus OMT (N=803)	OMT alone (N=803)
PCI of target lesion, per patient, any	729 / 803 (91%)	12 / 803 (1%)
Drug-eluting stent implantation	491 / 729 (67%)	7 / 12 (58%)
Bioabsorbable scaffold implantation	237 / 729 (33%)	5 / 12 (42%)
Number of stents or scaffolds implanted	1 (1 – 1)	0 (0 – 0)
Stent or scaffold diameter — mm	3.5 (3.0 – 3.5)	3.25 (3.0 – 3.5)
Total stent or scaffold length — mm	23 (18 – 28)	23 (18 – 28)
Intravascular imaging used to optimize stent or scaffold implantation	729 / 729 (100%)	12 / 12 (100%)
PCI of non-target lesions, per patient, any	290 / 803 (36%)	286 / 803 (36%)
Number of lesions treated	0 (0 – 1)	0 (0 – 1)
Number of stents implanted	0 (0 – 1)	0 (0 – 1)
Stent diameter — mm	3.25 (3.0 – 3.5)	3.25 (3.0 – 3.5)
Total stent length — mm	38 (23 – 51)	38 (28 – 51)

Data are median (inter-quartile range), or n (%). †One patient underwent balloon angioplasty only.

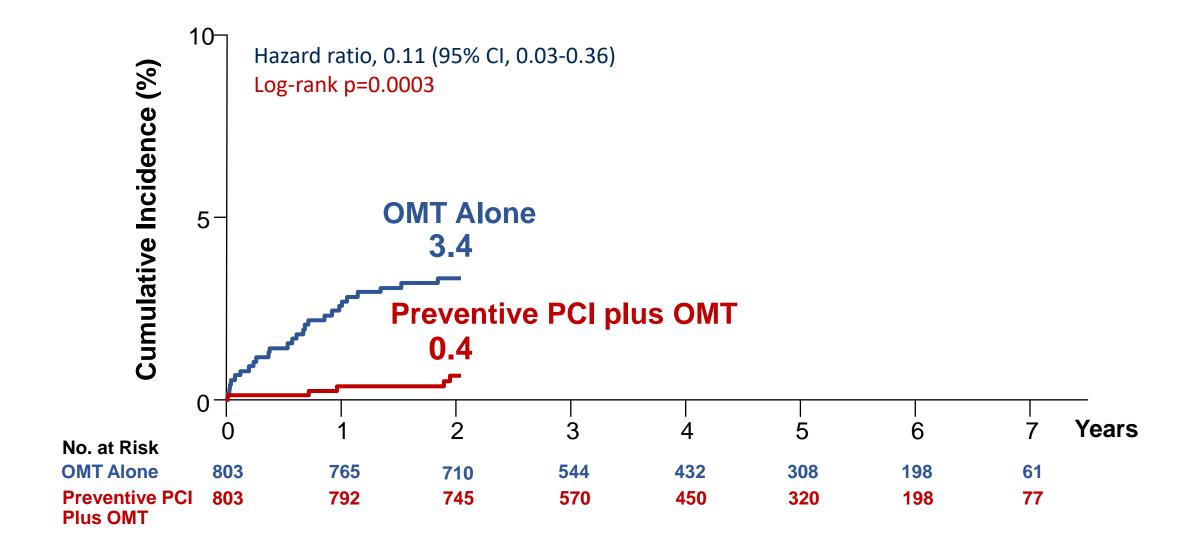
Procedural Safety Outcomes: As-treated population PREVENT

	Preventive PCI (N=741)	OMT alone (N=865)
Patients without non-target vessel PCI	N=461	N=569
Total PCI time — min	29 (18 – 45)	0
Total amount of contrast media used — mL	150 (120 – 200)	0
Patients with non-target vessel PCI	N=280	N=296
Total PCI time — min	57 (40 – 73)	46 (25 – 65)
Total amount of contrast media used — mL	250 (200 – 300)	200 (150 – 250)
Preventive PCI-related acute adverse events no. (%)		
Acute stent or scaffold thrombosis	1 (<1%)	0
Distal dissection of at least type B	1 (<1%)	0
Side branch occlusion	2 (<1%)	0
Distal embolization	1 (<1%)	0
Coronary perforation	0	0

Data are median (inter-quartile range), or n (%).

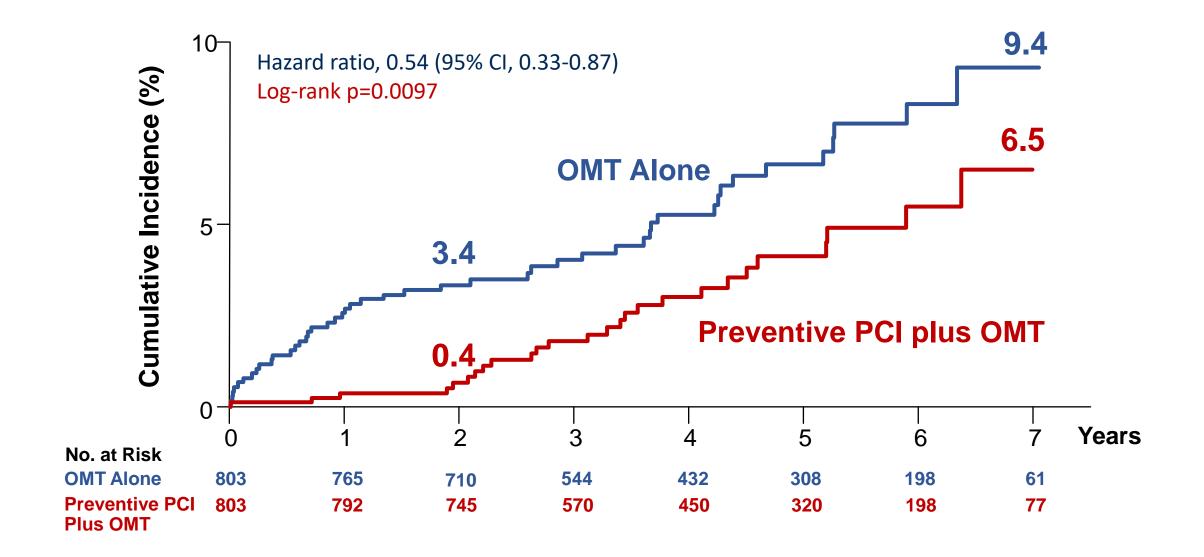
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Primary Composite Outcome: Target Vessel Failure at 2 Year F/U



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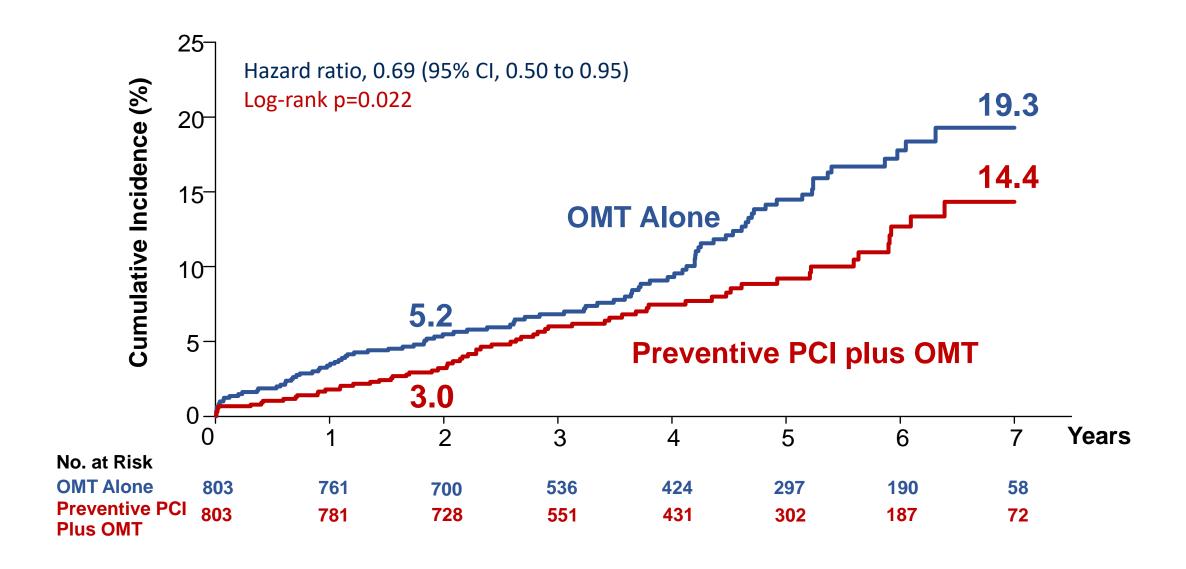
Primary Composite Outcome: Target Vessel Failure at 7 Year F/U



Patient-Oriented Composite Outcome:

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Death from Any cause, Any MI, or Any RR



Individual Components of the Primary Composite Outcome

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Endpoints	Preventive PCI plus OMT (N=803)	OMT alone (N=803)	Difference in event rates (95% CI)	Hazard ratio (95% CI)
Primary composite outcome				0-54 (0-33 to 0-87)
At 2 years‡	3 (0.4%)	27 (3.4%)	-3·0 (-4·4 to -1·8)	0-11 (0-03 to 0-36)
At 4 years	17 (2.8%)	37 (5.4%)	-2·6 (-4·7 to -0·4)	
At 7 years	26 (6.5%)	47 (9-4%)	-2·9 (-7·3 to 1·5)	
Death from cardiac causes				0.87 (0.31 to 2.39)
At 2 years	1 (0-1%)	6 (0.8%)	-0.6 (-1.3 to 0.02)	
At 4 years	5 (0.8%)	7 (0.9%)	-0·1 (-1·1 to 0·9)	
At 7 years	7 (1-4%)	8 (1.3%)	0·1 (-1·4 to 1·5)	
Target-vessel related MI				0.62 (0.20 to 1.90)
At 2 years	1 (0-1%)	6 (0.8%)	-0.6 (-1.3 to 0.02)	
At 4 years	4 (0-6%)	7 (10%)	-0·3 (-1·3 to 0·6)	
At 7 years	5 (1.0%)	8 (1.4%)	-0-3 (-1-7 to 1-1)	

Event rates (%) shown are Kaplan–Meier estimates in the intention-to-treat population.

Individual Components of the Primary Composite Outcome PREV

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Endpoints	Preventive PCI plus OMT (N=803)	OMT alone (N=803)	Difference in event rates (95% CI)	Hazard ratio (95% CI)
Ischemia-driven target-vessel	revascularization			0-44 (0-25 to 0-77)
At 2 years	1 (0-1%)	19 (2-4%)	-2·3 (-3·4 to -1·2)	
At 4 years	10 (1.7%)	29 (4-4%)	-2·7 (-4·6 to -0·8)	
At 7 years	17 (4.9%)	38 (8.0%)	-3·2 (-7·4 to 1·1)	
Hospitalization for unstable or	progressive angina			0-19 (0-06 to 0-54)
At 2 years	1 (0-1%)	12 (1.5%)	-1.4 (-2.3 to -0.5)	
At 4 years	4 (0.7%)	16 (2-4%)	-1·7 (-3·0 to -0·4)	
At 7 years	4 (0.7%)	21 (4.9%)	-4·2 (-7·17 to -1·4)	

Secondary Endpoint Outcomes

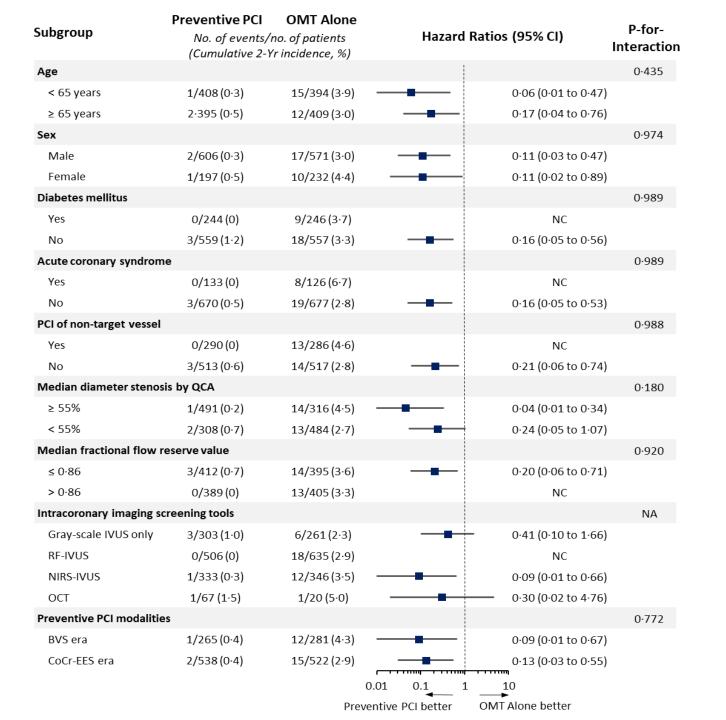
Endpoints	Preventive PCI plus OMT (N=803)	OMT alone (N=803)	Difference in event rates (95% CI)	Hazard ratio (95% CI)
Death from any cause				0.61 (0.35 to 1.06)
At 2 years	4 (0.5%)	10 (1.3%)	-0.8 (-1.7 to 0.2)	
At 4 years	11 (1.8%)	17 (2-6%)	-0.8 (-2.4 to 0.8)	
At 7 years	20 (5·2%)	32 (7-4%)	-2·3 (-6·0 to 1·5)	
Non-target-vessel myoca	ardial infarction			0.91 (0.39 to 2.15)
At 2 years	8 (1.0%)	12 (1.5%)	0·1 (-0·8 to 1·1)	
At 4 years	10 (1.3%)	8 (1.1%)	0.3 (-0.9 to 1.4)	
At 7 years	10 (1.3%)	11 (2.2%)	-0.9 (-2.6 to 0.8)	
Non-target-vessel revase	cularization			0.88 (0.51 to 1.52)
At 2 years	13 (1.6%)	13 (1.7%)	-2·2 (-4·1 to -0·2)	
At 4 years	22 (3·1%)	19 (2.7%)	-1.8 (-4.7 to 1.2)	
At 7 years	24 (4.8%)	27 (5.6%)	-4·9 (-10·8 to 1·1)	

Secondary Endpoint Outcomes

Endpoints	Preventive PCI plus OMT (N=803)	OMT alone (N=803)	Difference in event rates (95% CI)	Hazard ratio (95% CI)
Definite stent or scaffold thro	ombosis			0·66 (0·11 to 3·95)
At 2 years	1 (0.1%)	3 (0.4%)	-0·3 (-0·8 to 0·3)	
At 4 years	2 (0.3%)	3 (0.4%)	0·2 (-1·1 to 1·5)	
At 7 years	2 (0.3%)	3 (0.4%)	-0·4 (-2·3 to 1·5)	
Stroke				0.99 (0.43 to 2.29)
At 2 years	5 (0.6%)	6 (0.8%)	-0·1 (-1·0 to 0·7)	
At 4 years	10 (1.5%)	9 (1.3%)	0·3 (-0·9 to 1·4)	
At 7 years	11 (1.8%)	11 (2.2%)	-0-9 (-2-6 to 0-8)	
Bleeding events (Major)				0.90 (0.38 to 2.11)
At 2 years	5 (0.6%)	4 (0.5%)	-0·8 (-1· 8 to 0·2)	
At 4 years	8 (1.4%)	6 (0.9%)	-0-3 (-1-4 to 0-9)	
At 7 years	10 (1.9%)	6 (0.9%)	0·4 (-1·1 to 1·8)	

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Subgroup Analyses of the Primary Outcome at 2-year Follow-up



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Subgroup Analyses of the Primary Outcome at 7-year Follow-up

Subgroup	Preventive PCI No. of events/no.	OMT Alone . of patients (%)	Hazard Rati	os (95% CI)	P-for- Interaction
Age					0.619
< 65 years	13/408 (3·2)	25/394 (6·4)	-	0·48 (0·25 to 0·94)	
≥ 65 years	13/395 (3·3)	22/409 (5·4)	-	0.61 (0.31 to 1.20)	
Sex					0.996
Male	19/606 (3·1)	32/571 (5·6)	-	0·54 (0·31 to 0·96)	
Female	7/197 (3·6)	15/232 (6·5)	-	0·53 (0·22 to 1·31)	
Diabetes mellitus					0.696
Yes	8/244 (3·3)	13/246 (5·3)	-	0.62 (0.26 to 1.50)	
No	18/559 (3·2)	34/557 (6·1)	-	0·51 (0·29 to 0·89)	
Acute coronary syndrom	е				0.380
Yes	4/133 (3.0)	11/126 (8·7)	-	0·33 (0·11 to 1·05)	
No	22/670 (3·3)	36/677 (5·3)	-	0.60 (0.35 to 1.01)	
PCI of non-target vessel					0.007
Yes	5/290 (1·7)	24/286 (8·4)	←■	0·19 (0·07 to 0·51)	
No	21/513 (4·1)	23/517 (4·4)	-	0·91 (0·50 to 1·64)	
Median diameter stenos	is by QCA				0.014
≥ 55%	11/491 (2·2)	23/316 (7·3)	-	0·28 (0·14 to 0·58)	
< 55%	15/308 (4.9)	24/484 (5·0)	_	0·95 (0·50 to 1·81)	
Median fractional flow r	eserve value				0.771
≤ 0.86	16/412 (3.9)	25/395 (6·3)		0·59 (0·32 to 1·11)	
> 0.86	10/389 (2.6)	22/405 (5·4)	-	0·46 (0·22 to 0·97)	
Intracoronary imaging so	reening tools				NA
Gray-scale IVUS only	10/306 (3.3)	14/261 (5·4)	-	0·50 (0·22 to 1·12)	
RF-IVUS	15/506 (3.0)	31/635 (4.9)	-	0·55 (0·29 to 1·01)	
NIRS-IVUS	15/333 (4·5)	24/346 (6·9)	-	0.63 (0.33 to 1.20)	
ОСТ	5/67 (7·5)	3/20 (15·0)		0·41 (0·10 to 1·71)	
Preventive PCI modalitie	s				0.018
BVS era	19/265 (7·2)	22/281 (7·8)	-	0·89 (0·48 to 1·65)	
CoCr-EES era	7/538 (1·3)	25/522 (4·8)		0·25 (0·11 to 0·59)	
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		Preventive	PCI better OMT A	lone better	

- The study was open-label, introducing the risks of placebo effects and ascertainment bias.
- The observed rates of the primary outcome were substantially lower than expected in both groups.
- The selection of imaging modality to assess plaque vulnerability was left to operator discretion.
- 9% in the preventive PCI group and 1% in the OMT alone group crossed over.
- The study did not collect data to examine the cost-effectiveness of a preventive PCI strategy.
- DAPT use was greater in the preventive PCI group.

Summary of Key Findings

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- The PREVENT trial is the first large-scale, randomized controlled study comparing preventive PCI plus OMT versus OMT alone for the treatment of non-flow-limiting imaging defined vulnerable plaques.
- In the PREVENT trial, preventive PCI reduced the composite risk of death from cardiac causes, target-vessel MI, ischemia-driven TVR, or hospitalization for unstable or progressive angina at 2 years.
- Preventive PCI also reduced the composite patient-oriented outcome of risk of all-cause death, any MI, or any repeat revascularization.
- This benefit was sustained throughout the 7-year follow-up period.

Conclusions

- In the PREVENT trial, preventive PCI plus OMT resulted in a lower incidence of major adverse cardiac events compared with OMT alone in patients with non-flow-limiting vulnerable plaques
- Our key findings might provide novel insights on the role of preventive PCI on non-flow-limiting high-risk vulnerable plaques in the future.

Thank You!

Further Details in the Lancet Simultaneous Publication



THELANCET-D-24-00558R4

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Embargo: April 8, 2024 - **16:00** (BST)

Doctopic: Primary Research

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Seung-Jung Park*, Jung-Min Ahn*, Do-Yoon Kang, Sung-Cheol Yun, Young-Keun Ahn, Won-Jang Kim, Chang-Wook Nam, Jin-Ok Jeong, In-Ho Chae, Hiroki Shiomi, Hsien-Li Kao, Joo-Yong Hahn, Sung-Ho Her, Bong-Ki Lee, Tae Hoon Ahn, Ki-Yuk Chang, Jei Keon Chae, David Smyth, Gary S Mintz, Gregg W Stone, Duk-Woo Park, for the PREVENT Investigators†

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Articles
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Thank You!!

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