

# ***Two-Year Outcome of a Randomized Trial Comparing Second Generation Drug-eluting Stents Using Either Biodegradable Polymer or Durable Polymer***

***The NOBORI Biolimus-Eluting versus  
XIENCE/PROMUS Everolimus-eluting Stent Trial (NEXT)***



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***On behalf of the NEXT Investigators***

# **Disclosures**

**Masahiro Natsuaki, MD**

None.

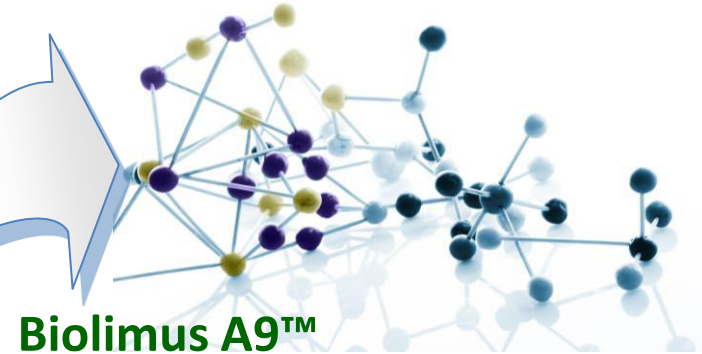
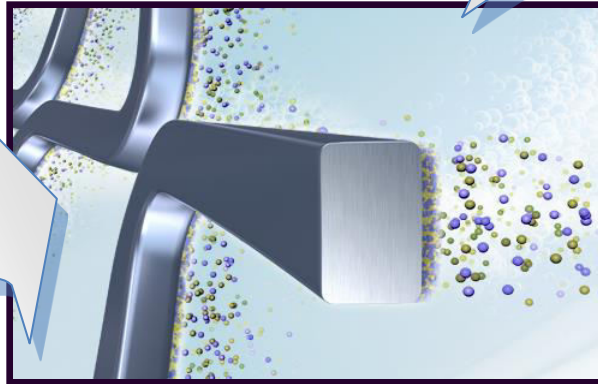
**Study Sponsor of NEXT Trial**

Terumo Japan

# Nobori® Biodegradable Polymer Biolimus-eluting Stent Components

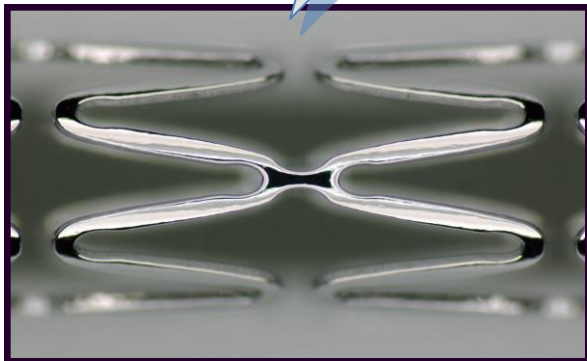
## PLA Biodegradable Polymer

- Abluminal coating
- Controlled biodegradability
- Precise drug release kinetics
- Simultaneous release of drug and polymer degradation



## Biolimus A9™

- Anti-proliferative, anti-inflammatory properties
- Highly lipophilic with optimal local tissue uptake

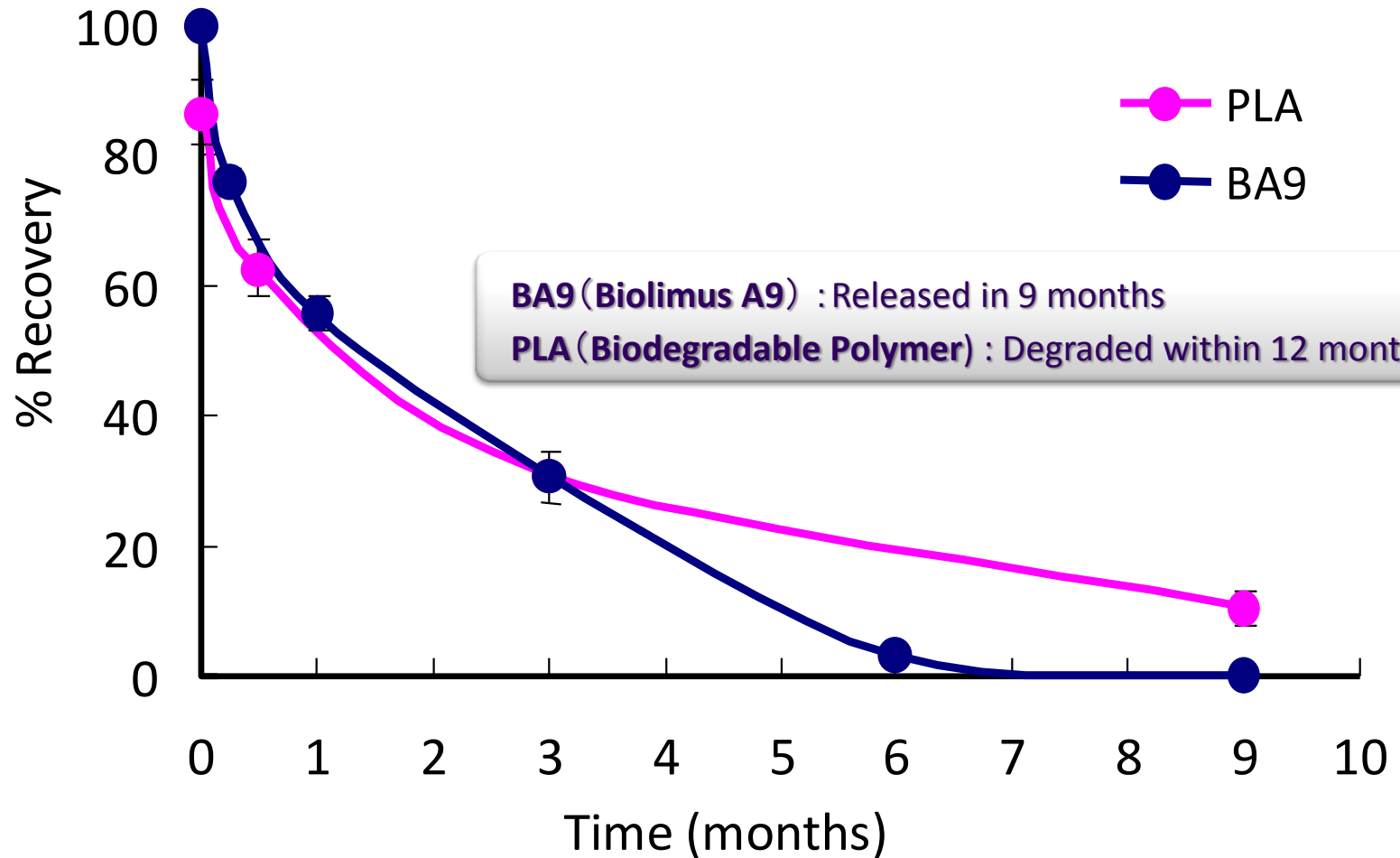


## BMS Platform

- Stainless steel alloy stent
- Wide cell opening with optimal side branch access
- Innovative delivery system with hydrophilic M-coating

# Nobori® Biolimus-eluting Stent

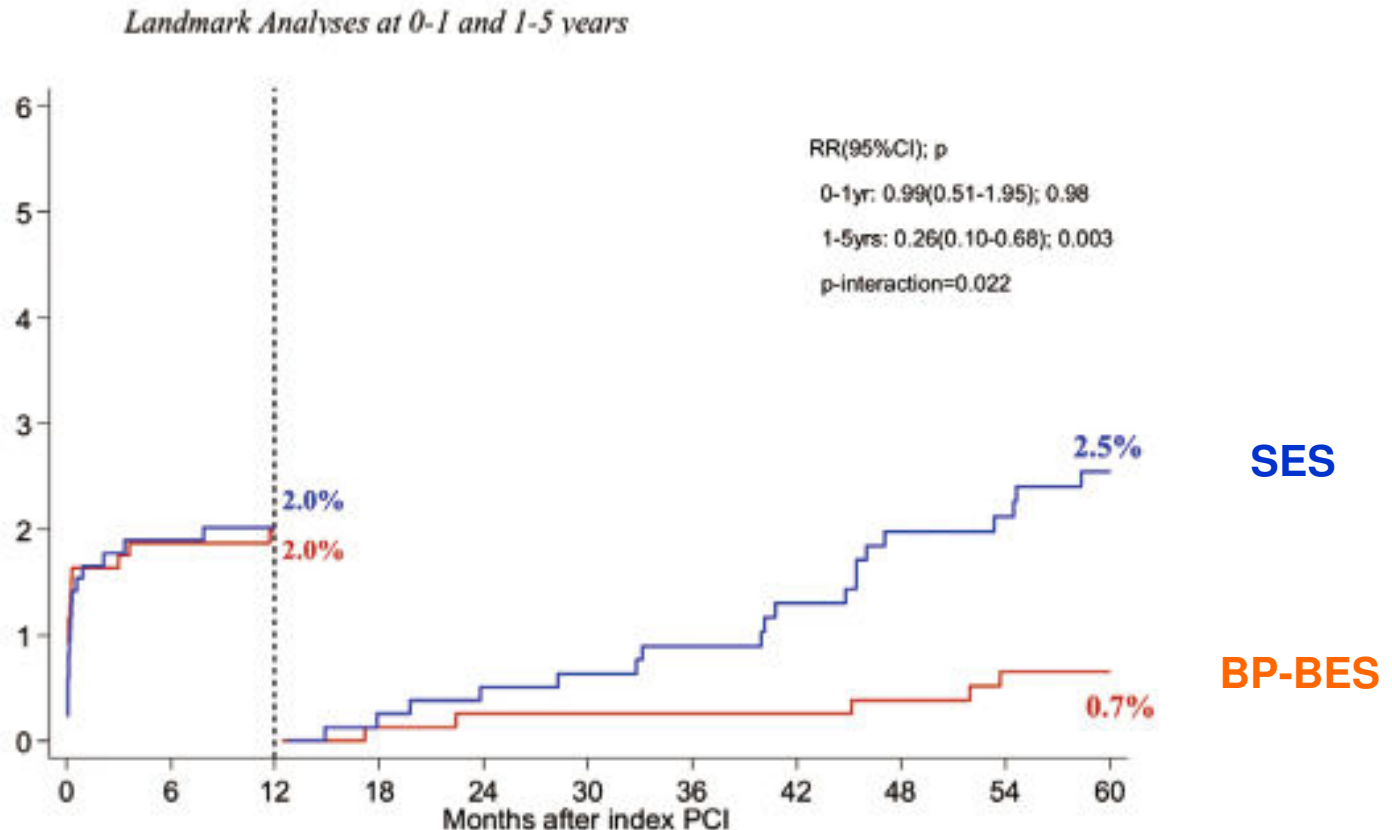
Biolimus A9 and PLA recovery over time on stents implanted in pig arteries



# Background

*In LEADERS trial, biodegradable polymer biolimus-eluting stent (BP-BES) significantly reduced the risk for very late stent thrombosis compared with durable polymer sirolimus-eluting stent (SES).*

**Very Late Stent Thrombosis: BP-BES vs SES RR 0.26 (0.1-0.68)**



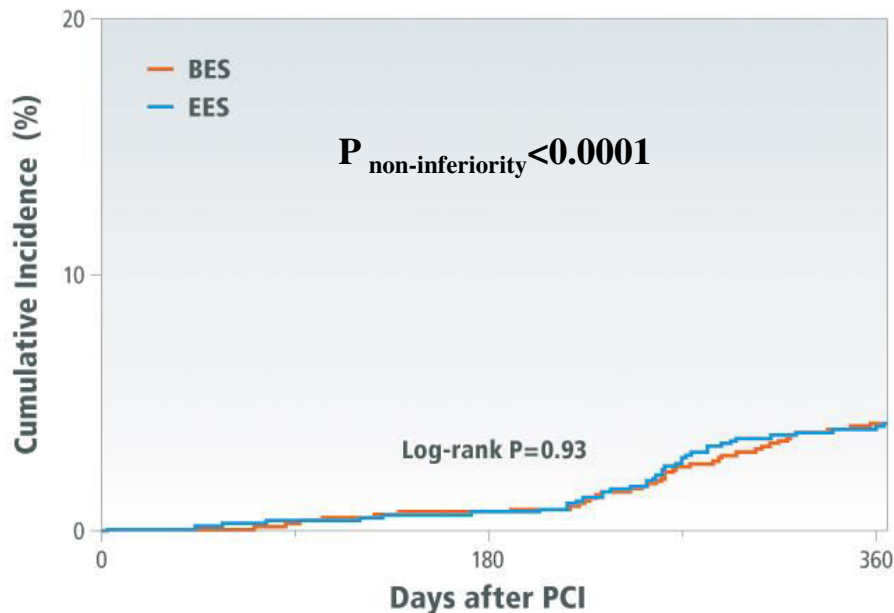
# Background

*However, SES is no longer used in the current clinical practice, and second-generation biocompatible durable polymer drug-eluting stent (DES) would be the more clinically relevant comparator stent for the biodegradable polymer DES (BP-DES).*

*NEXT and COMPARE II trial demonstrated non-inferiority of BP-BES relative to biocompatible durable polymer everolimus-eluting stent (DP-EES) in terms of the safety and efficacy endpoint at 1-year.*

## NEXT

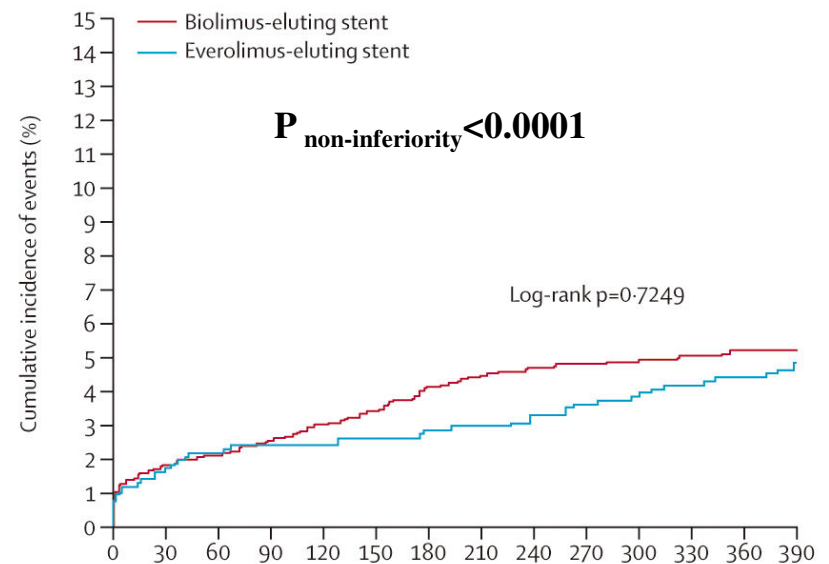
### Target-Lesion Revascularization



Natsuaki M, et al. JACC. 2013. 62 (3): 181-190.

## COMPARE II

### Cardiac death, MI, TVR



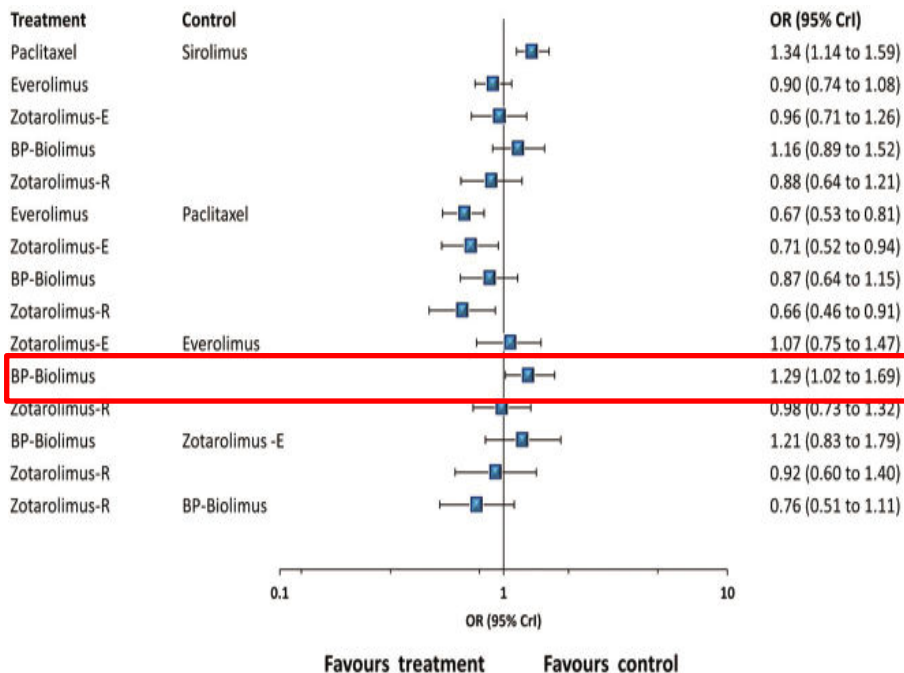
Smits PC, et al. Lancet. 2013. 381 (9867): 651-660.

# Background

*On the other hand, recent network meta-analyses have raised concerns on the safety of BP-BES compared with DP-EES.*

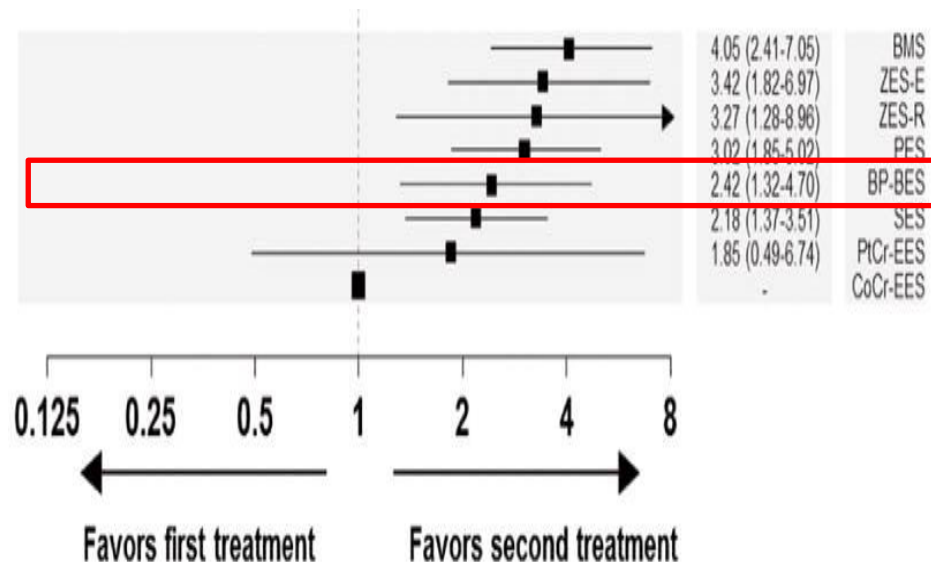
## Myocardial Infarction

**BP-BES vs. DP-EES OR 1.29 (1.02-1.69)**



## Definite Stent Thrombosis

**BP-BES vs. DP-EES OR 2.42 (1.32-4.7)**

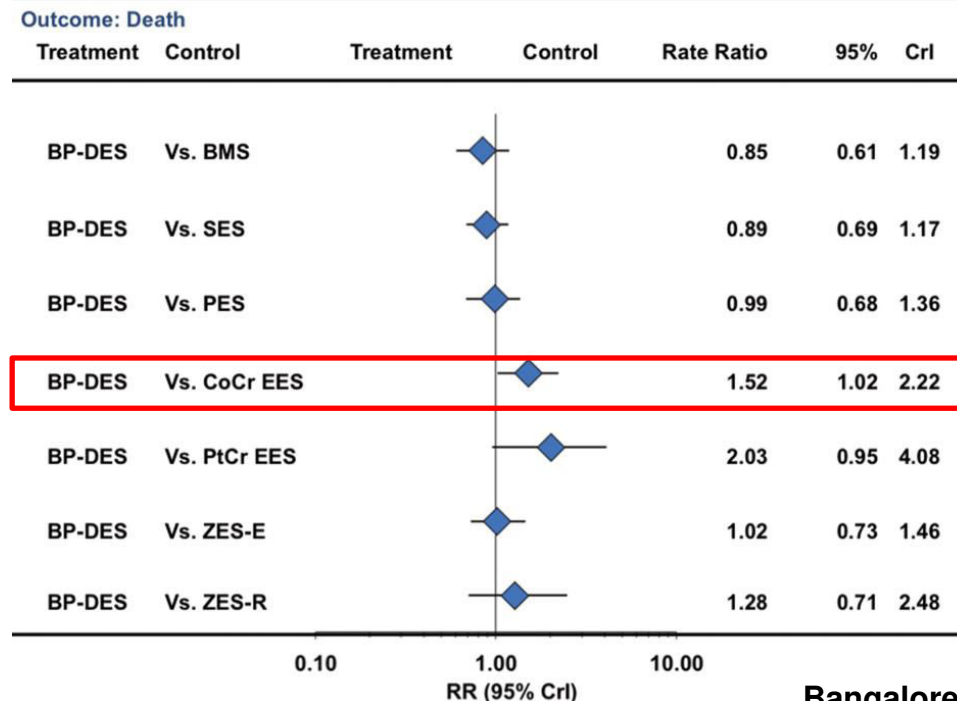


# Background

*Network meta-analyses also showed that BP-DES was associated with increased mortality compared with DP-EES beyond 1-year after stent implantation. However, there is no head-to-head randomized trial of BP-DES compared with DP-EES reporting the clinical outcomes beyond 1-year after stent implantation when the advantage of BP-DES could emerge after complete polymer degradation.*

*Therefore, we report the interim 2-year outcome evaluating non-inferiority of BP-BES relative to DP-EES.*

**All-cause Death beyond 1-year: BP-DES vs DP-EES RR 1.52 (1.02-2.22)**

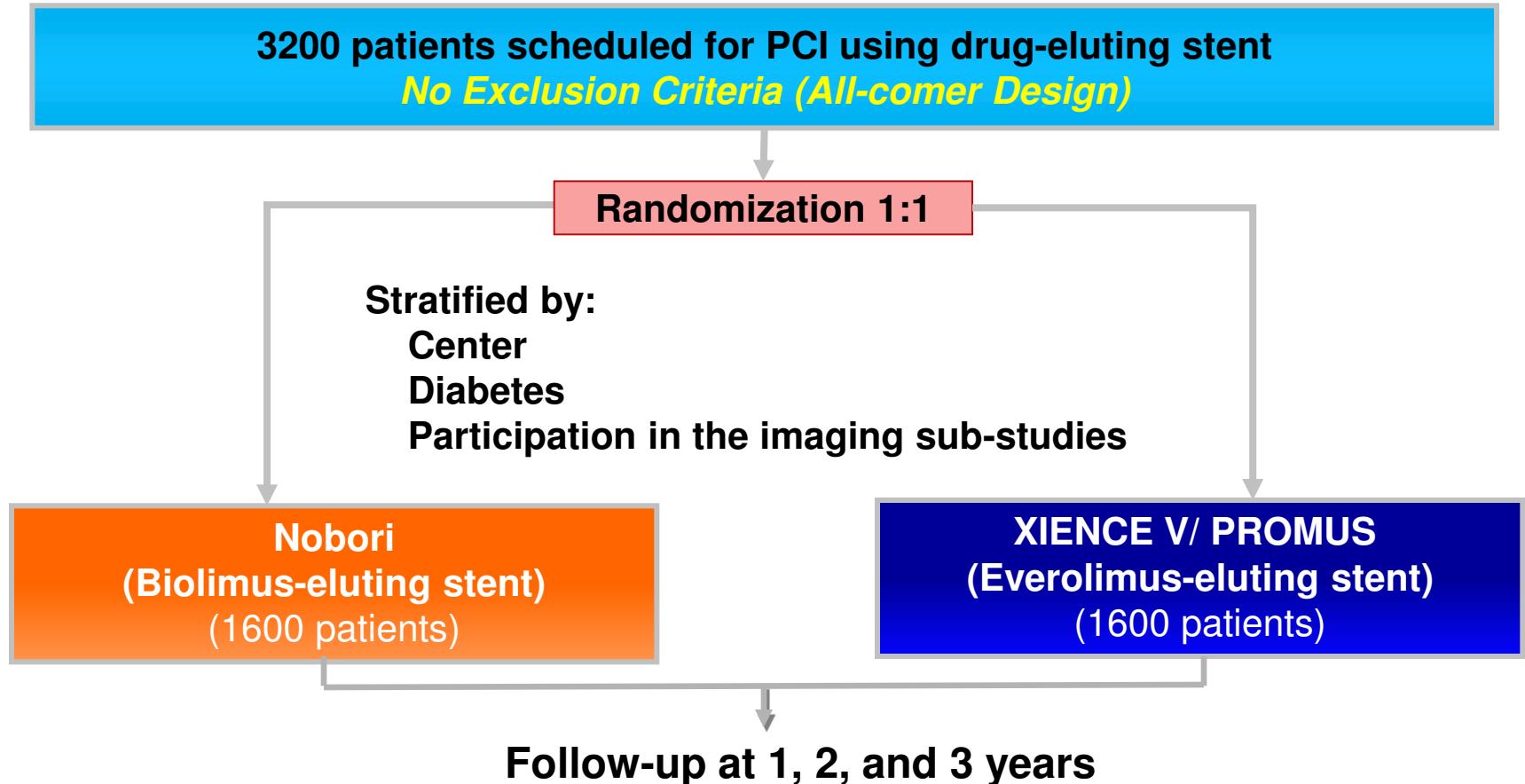




# ***NEXT Trial***

***(NOBORI Biolimus-Eluting versus XIENCE/PROMUS Everolimus-eluting stent Trial)***

**Multicenter, randomized, non-inferiority trial comparing BP-BES with DP-EES**



***Imaging Sub-studies at 8-12 months:***

***Angiography (500 patients), IVUS/OCT (120 patients), Endothelial function (100 patients)***

*(Scheduled follow-up angiography by local site protocol was allowed beyond 240 days. )*

# ***NEXT Trial***

## **Primary Endpoints and Sample Size Calculation**

- **Primary Endpoints:**

***Efficacy: Any Target-lesion Revascularization at 1 year***

- **Estimated TLR rate at 1 year:**

Everolimus-eluting stent group: **6.9%**

**Non-inferiority margin of 3.4%** and one-sided type I error of **0.025**

3000 patients would yield **> 95% power** to detect non-inferiority.

- A total of 3200 patients were to be enrolled considering possible drop-out during follow-up.

# ***NEXT Trial***

## **Primary Endpoints and Sample Size Calculation**

- **Primary Endpoint:**

***Safety: Death or Myocardial Infarction at 3-year***

- **Estimated event rate at 3-year:**

Everolimus-eluting stent group: **12.2%**

**Non-inferiority margin of 4.3%** and one-sided type I error of 0.025

3000 patients would yield **91% power** to detect non-inferiority.

# ***NEXT Trial: 2-Year Interim Analysis***

## **Main Outcome Measures and Power Calculation**

- ***Safety: Death or Myocardial Infarction (MI) at 2-year***

### **Statistical Power for Death or MI:**

Actual event rate at 2-year: 7.8%

Non-inferiority margin of 2.9% (2/3 of 4.3% at 3-y) and one-sided type I error of 0.006  
3235 patients had 71% power to detect non-inferiority.

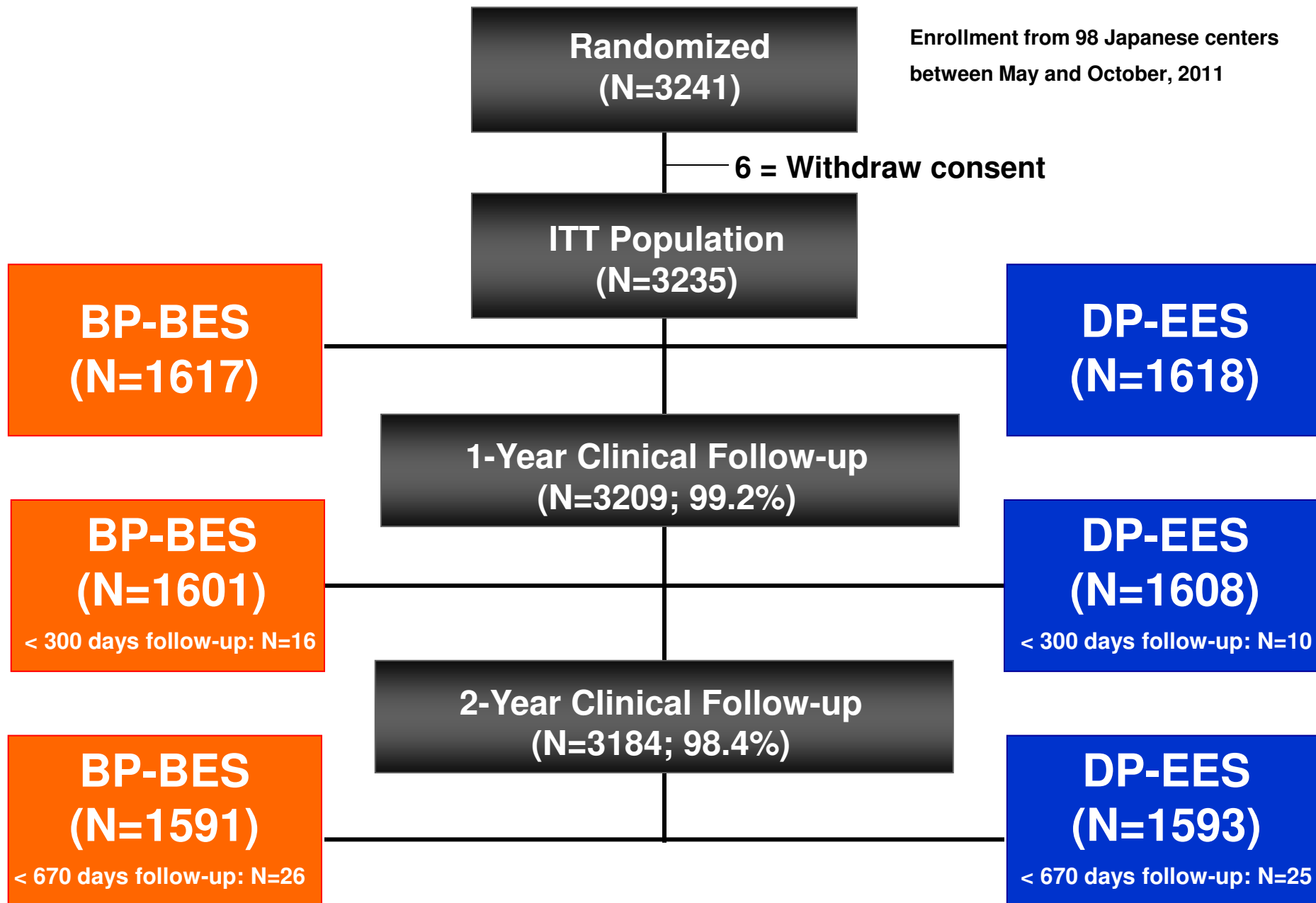
- ***Efficacy: Any Target-lesion Revascularization at 2-year***

### **Statistical Power for TLR:**

Actual event rate at 2-year: 6.1%

Non-inferiority margin of 3.4% (the same at 1-y) and one-sided type I error of 0.025  
3235 patients had 98% power to detect non-inferiority.

# ***Patient Flow Chart***



# Baseline Patient Characteristics

	<i><b>BP-BES</b></i>	<i><b>DP-EES</b></i>	<i><b>P</b></i>
<b>No. of patients</b>	<b>1617</b>	<b>1618</b>	
<b>Age (years)</b>	<b>69.1 ± 9.8</b>	<b>69.3 ± 9.8</b>	0.49
Age ≥ 75 years	31 %	34 %	0.052
Male gender	77 %	77 %	0.76
Body mass Index (kg/m <sup>2</sup> )	24.1 ± 3.7	24.2 ± 3.5	0.55
<b>Diabetes</b>	<b>46 %</b>	<b>46 %</b>	0.85
Insulin-treated	10 %	11 %	0.73
Hypertension	81 %	82 %	0.81
Current smoker	19 %	18 %	0.71
Statin use	77 %	75 %	0.47
Prior PCI	50 %	51 %	0.9
Prior CABG	5.3 %	4.8 %	0.52

# Baseline Patient Characteristics

	<i><b>BP-BES</b></i>	<i><b>DP-EES</b></i>	<i><b>P</b></i>
<b>No. of patients</b>	<b>1617</b>	<b>1618</b>	
Clinical diagnosis			0.62
Acute myocardial infarction	5.1 %	4.5 %	
Unstable angina	12 %	11 %	
Stable coronary artery disease	83 %	84 %	
Prior myocardial infarction	28 %	28 %	0.81
Prior stroke	10 %	11 %	0.43
Heart failure	13 %	11 %	0.13
Hemodialysis	6.5 %	5.2 %	0.11
Peripheral vascular disease	9.7 %	11 %	0.1
Multivessel disease	51 %	51 %	0.9
SYNTAX score	10 (6-17) (N=1494)	10 (6-16) (N=1506)	0.17

# Baseline Lesion Characteristics

	<i><b>BP-BES</b></i>	<i><b>DP-EES</b></i>	<i><b>P</b></i>
<b>No. of lesions</b>	<b>2059</b>	<b>2010</b>	
Target vessel location			0.42
LMCA	2.4 %	2.3 %	
LAD	42 %	42 %	
LCx	22 %	24 %	
RCA	33 %	31 %	
Graft	0.7 %	0.9 %	
STEMI culprit lesions	3.0 %	2.9 %	0.88
Chronic total occlusion	8.6 %	7.9 %	0.39
In-stent restenosis	11 %	11 %	0.94
Bifurcation lesions	43 %	45 %	0.36
Reference vessel size ≤ 2.75 mm	60%	62%	0.25
Lesion length > 18 mm	43%	42%	0.51

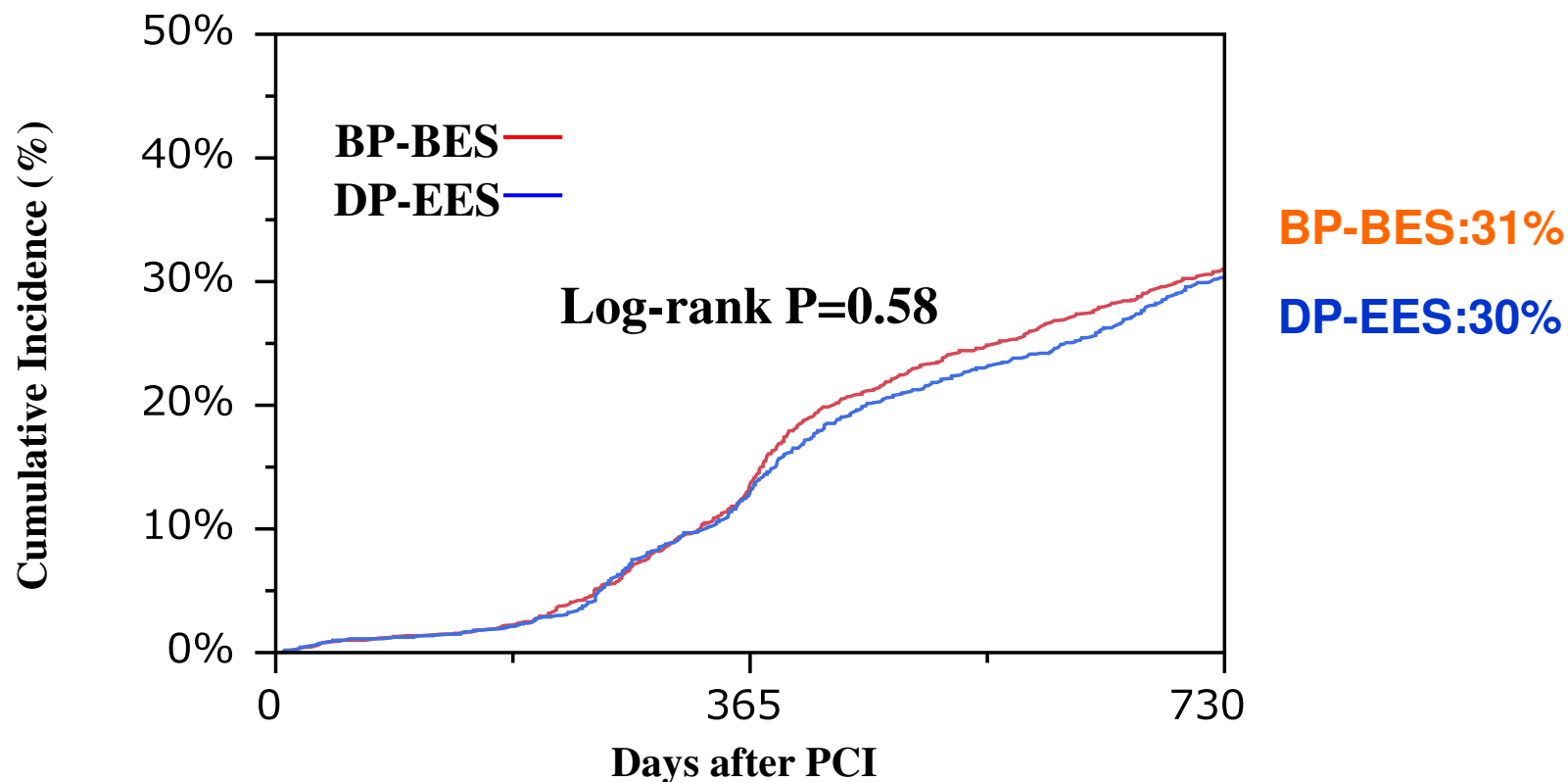


# Procedural Characteristics

		<i><b>BP-BES</b></i>	<i><b>DP-EES</b></i>	<i><b>P</b></i>
No. of lesions treated per patient		1.27 ± 0.56	1.24 ± 0.51	0.1
No. of stents				
	Per patient	1.59 ± 0.84	1.6 ± 0.83	0.74
	Per lesion	1.29 ± 0.56	1.32 ± 0.6	0.13
Total stent length (mm)				
	Per patient	33.0 ± 20.3	32.9 ± 20.7	0.87
	Per lesion	26.9 ± 15.1	27.2 ± 16.5	0.52
Stent diameter (mm)		2.88 ± 0.67	2.87 ± 0.64	0.7
Direct stenting		23 %	23 %	0.93
Maximum inflation pressure (atm)		17.2 ± 4.5	16.9 ± 4.4	0.03
Bifurcation 2-stent		1.2 %	1.0 %	0.41
IVUS use		88%	87%	0.21
Multivessel treatment		13%	11%	0.21
Staged procedures		27%	27%	0.77

## ***Clinical Outcomes at 2-year***

# Persistent Discontinuation of Dual Antiplatelet Therapy (DAPT)



Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with discontinuation		10	215	483
N of patients at risk	1617	1598	1347	1026
Cumulative Incidence		0.6%	13.6%	31.1%
<b>DP-EES group</b>				
N of patients with discontinuation		11	202	471
N of patients at risk	1618	1601	1365	1033
Cumulative Incidence		0.7%	12.8%	30.4%

# Non-inferiority Assessment for the Primary Safety Endpoint

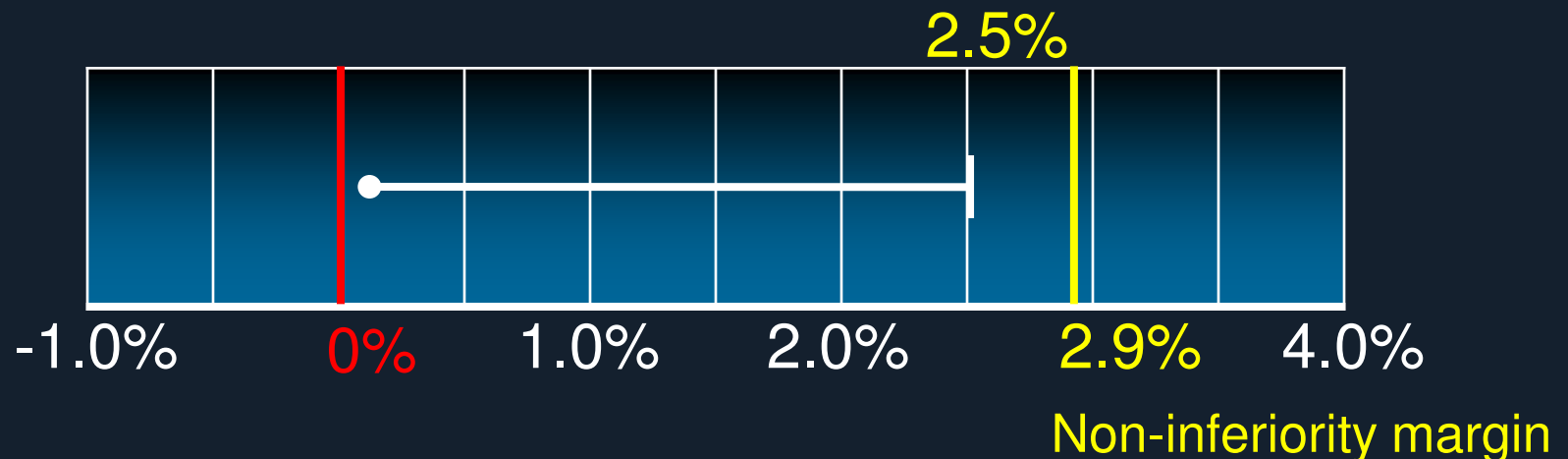
## Death or Myocardial Infarction

BP-BES 7.83% vs. DP-EES 7.69%

$P_{\text{non-inferiority}} = 0.003$

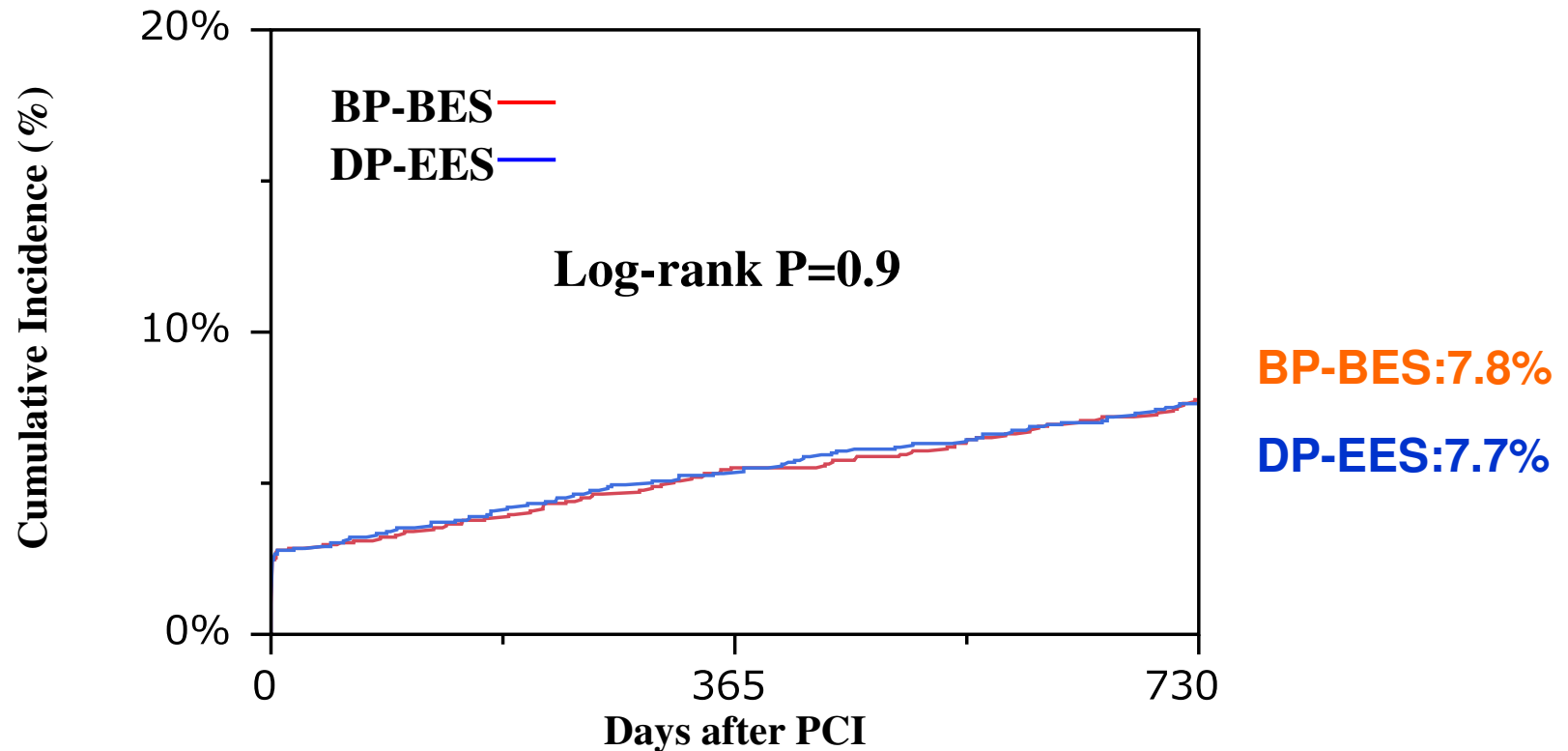
Difference: 0.14%

Upper one-sided 99.4% CI: 2.5%



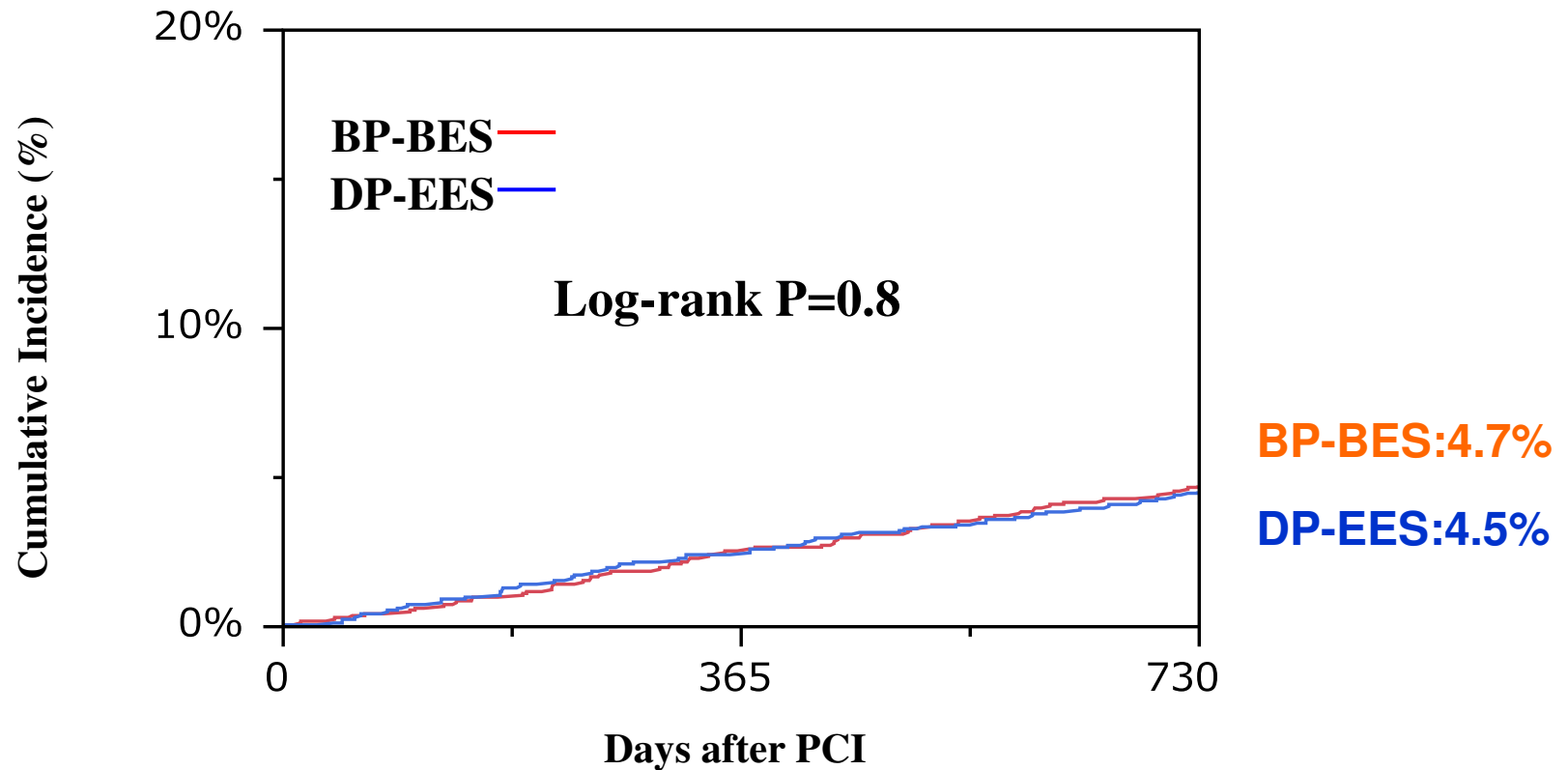
# ***Safety Endpoint***

## ***Death or Myocardial Infarction***



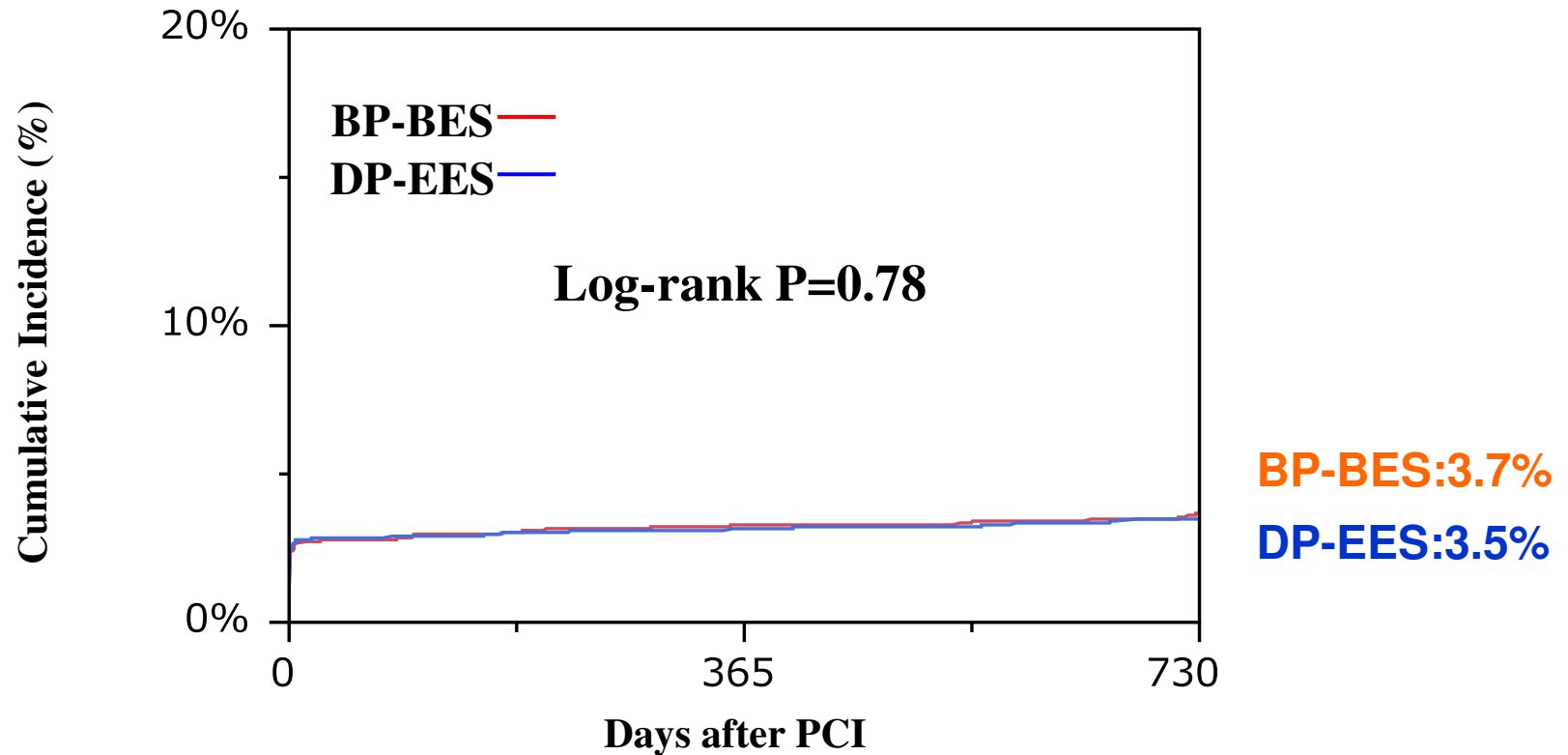
Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		47	89	126
N of patients at risk	1617	1569	1524	1465
Cumulative Incidence		2.9%	5.5%	7.8%
<b>DP-EES group</b>				
N of patients with at least 1 event		47	87	124
N of patients at risk	1618	1571	1527	1466
Cumulative Incidence		2.9%	5.4%	7.7%

# All-cause Death



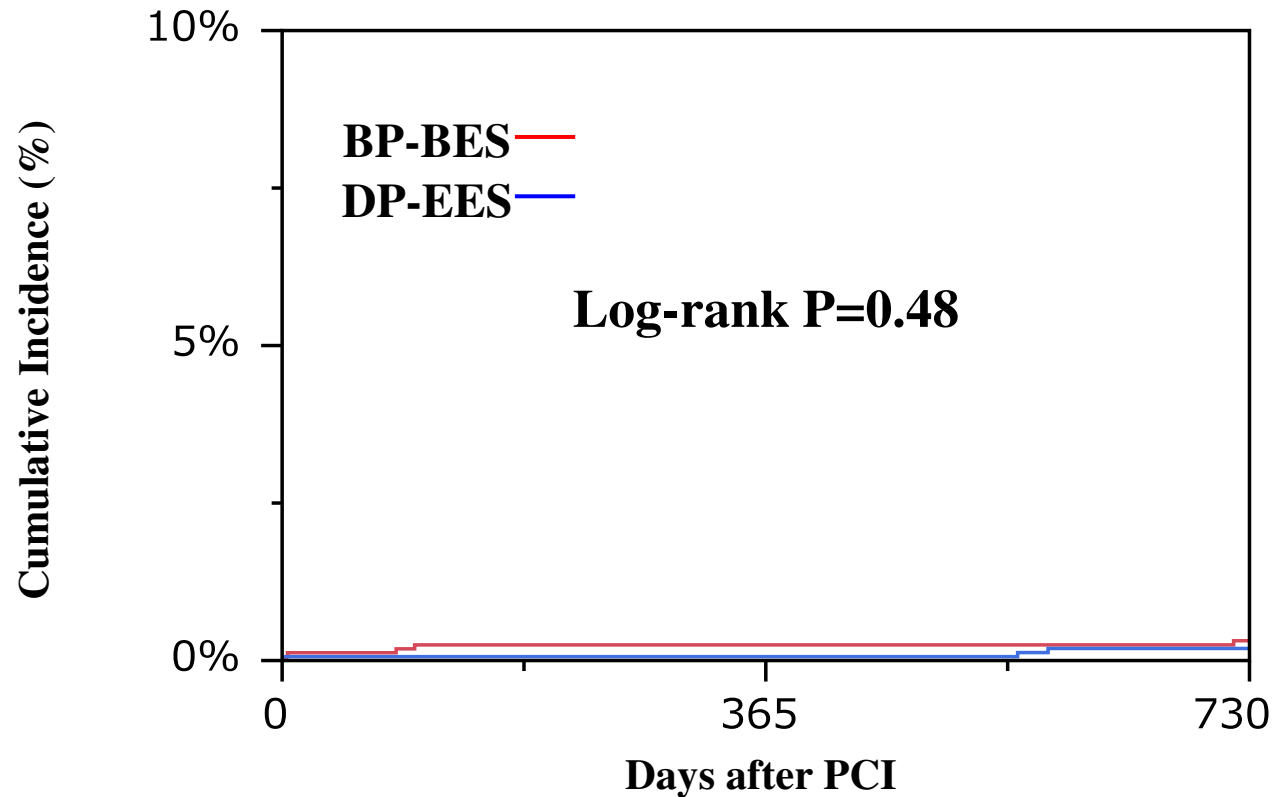
Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		3	42	76
N of patients at risk	1617	1613	1570	1512
Cumulative Incidence		0.2%	2.6%	4.7%
<b>DP-EES group</b>				
N of patients with at least 1 event		2	40	73
N of patients at risk	1618	1616	1574	1517
Cumulative Incidence		0.1%	2.5%	4.5%

# Myocardial Infarction



Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		45	53	59
N of patients at risk	1617	1569	1524	1463
Cumulative Incidence		2.8%	3.3%	3.7%
<b>DP-EES group</b>				
N of patients with at least 1 event		46	51	56
N of patients at risk	1618	1571	1526	1463
Cumulative Incidence		2.8%	3.2%	3.5%

# Definite Stent Thrombosis



Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		2	4	5
N of patients at risk	1617	1612	1569	1508
Cumulative Incidence		0.12%	0.25%	0.31%
<b>DP-EES group</b>				
N of patients with at least 1 event		1	1	3
N of patients at risk	1618	1616	1573	1512
Cumulative Incidence		0.06%	0.06%	0.19%



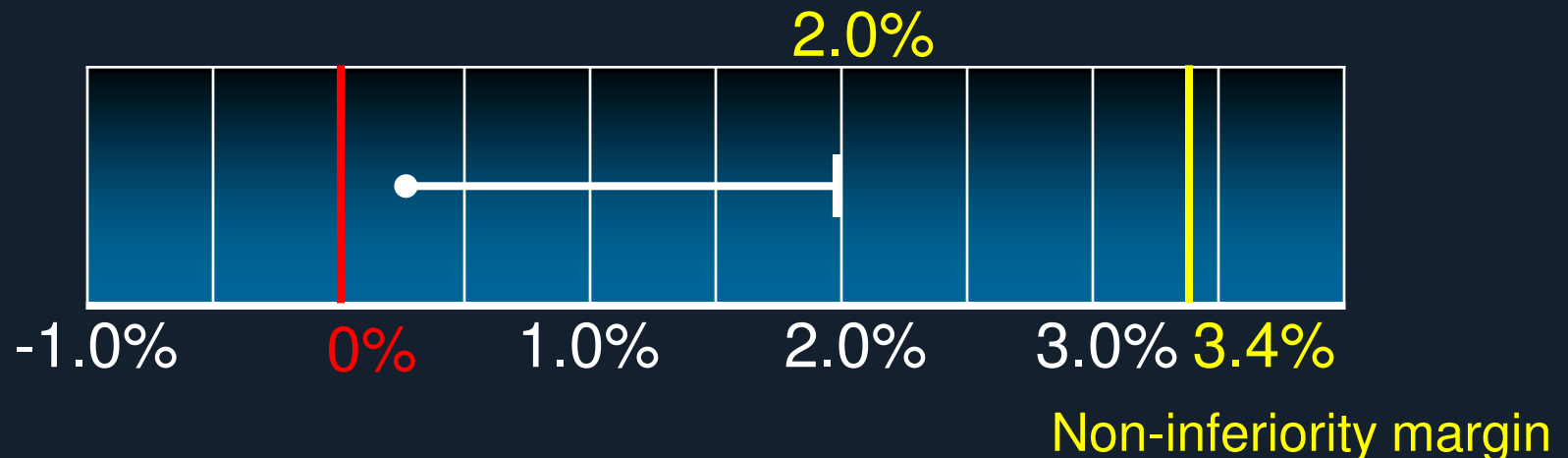
# Non-inferiority Assessment for the Primary Efficacy Endpoint Target-Lesion Revascularization (TLR)

BP-BES 6.23% vs. DP-EES 5.95%

$P_{\text{non-inferiority}} = 0.0001$

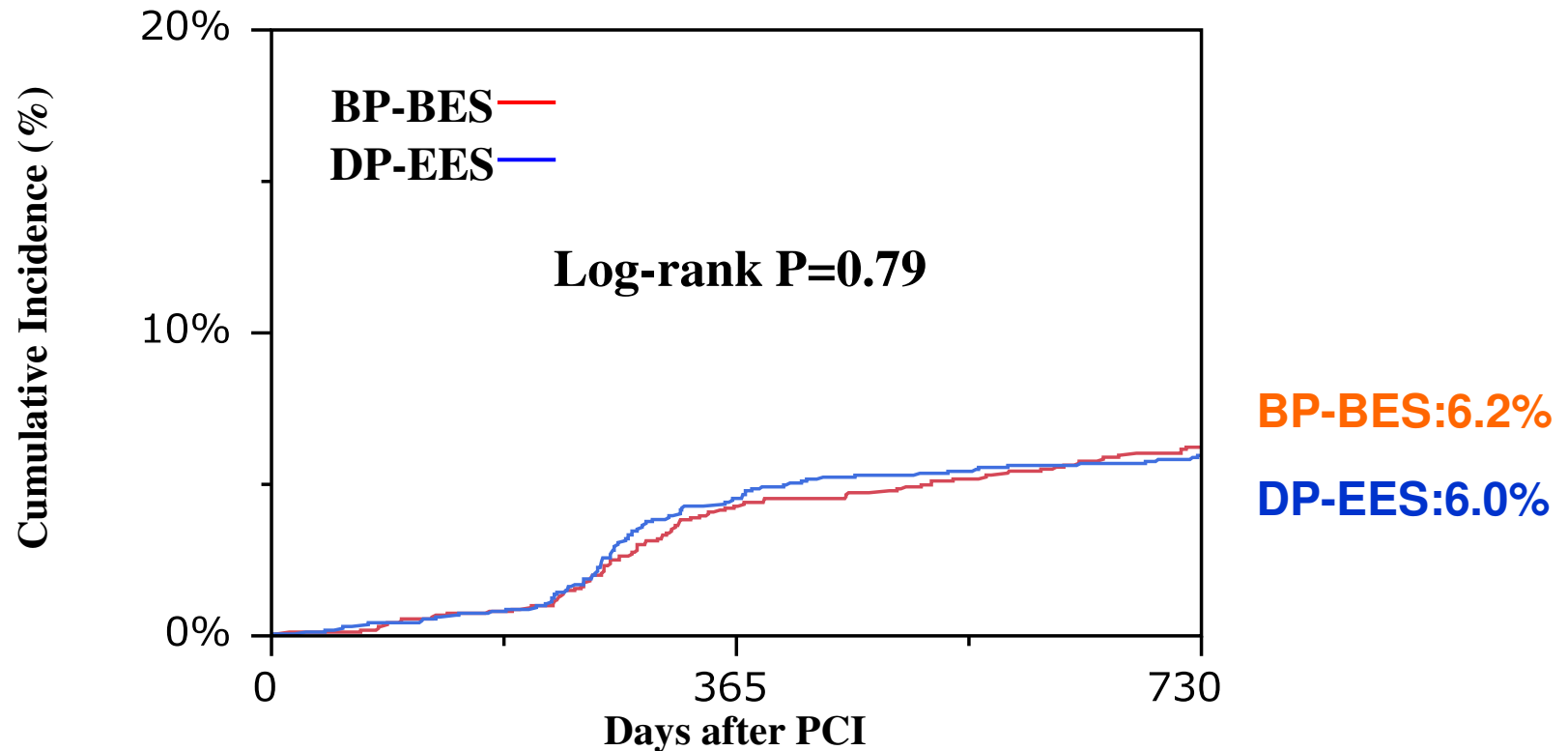
Difference: 0.28%

Upper one-sided 97.5% CI: 2.0%



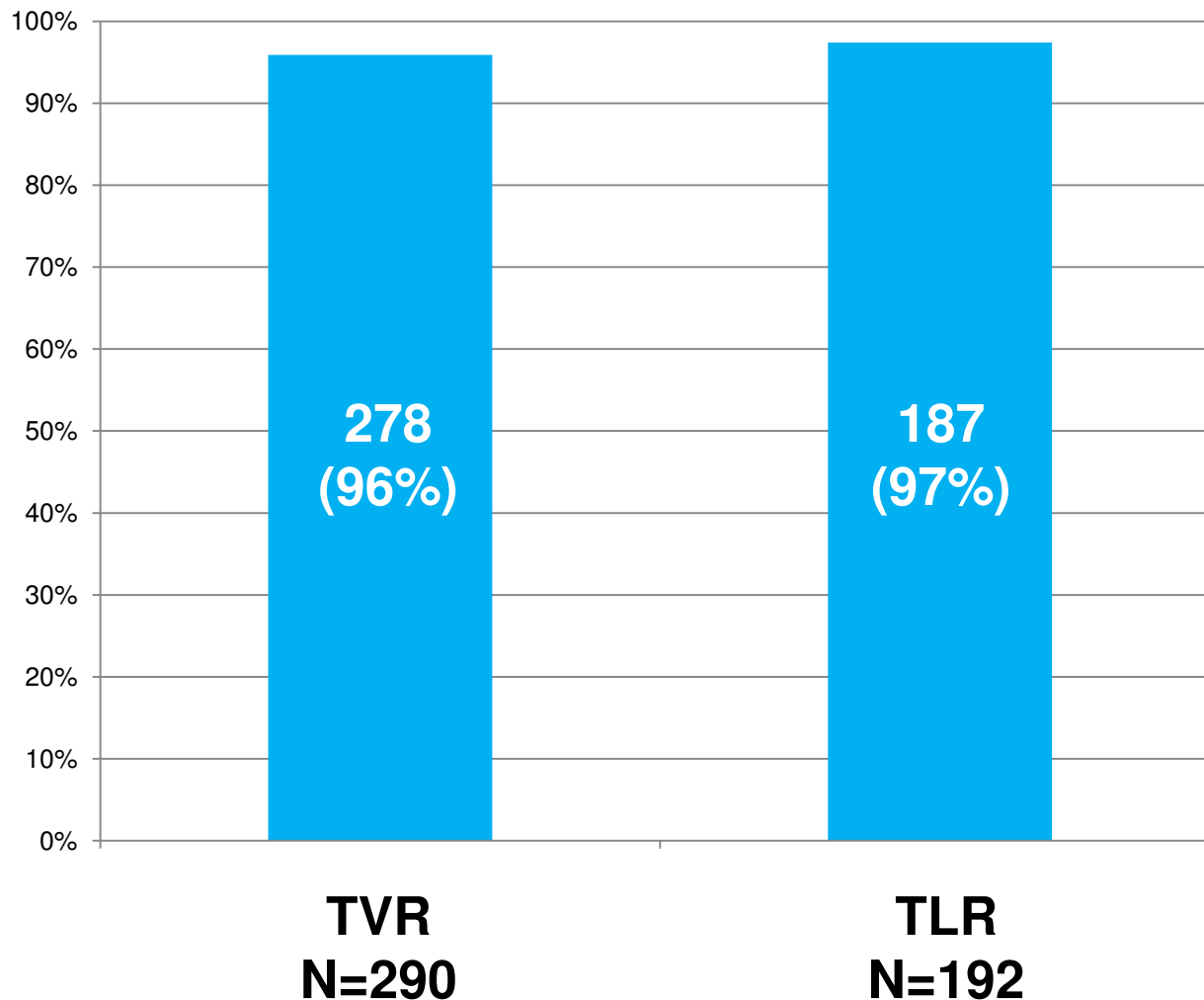
# ***Efficacy Endpoint***

## ***Target-Lesion Revascularization***



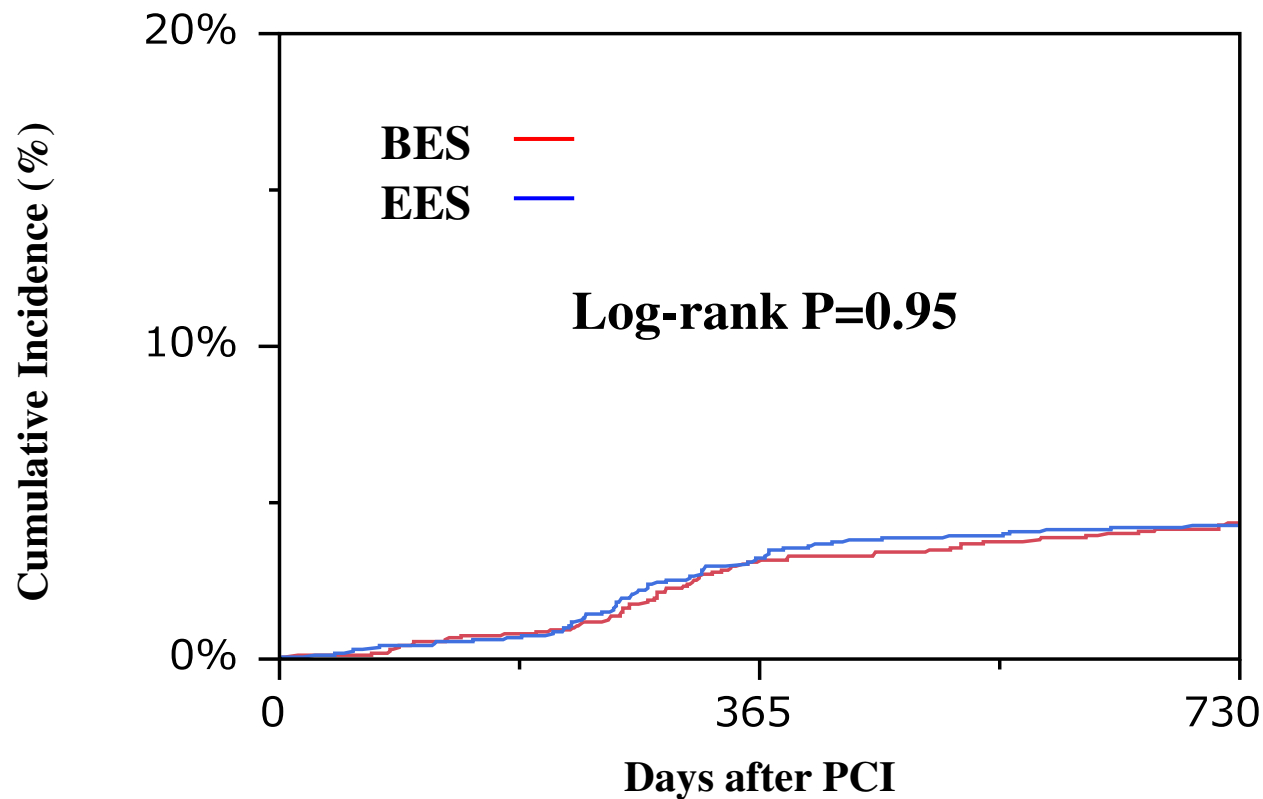
Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		2	68	98
N of patients at risk	1617	1612	1506	1417
Cumulative Incidence		0.1%	4.3%	6.2%
<b>DP-EES group</b>				
N of patients with at least 1 event		2	72	94
N of patients at risk	1618	1614	1503	1424
Cumulative Incidence		0.1%	4.5%	6.0%

# Proportion of Events Adjudicated by the Angiographic Core Laboratory



*All the angiograms of patients with TVR were to be analyzed by the angiographic core laboratory in an attempt to discriminate TLR from non-TLR TVR and to identify clinically-driven TLR.*

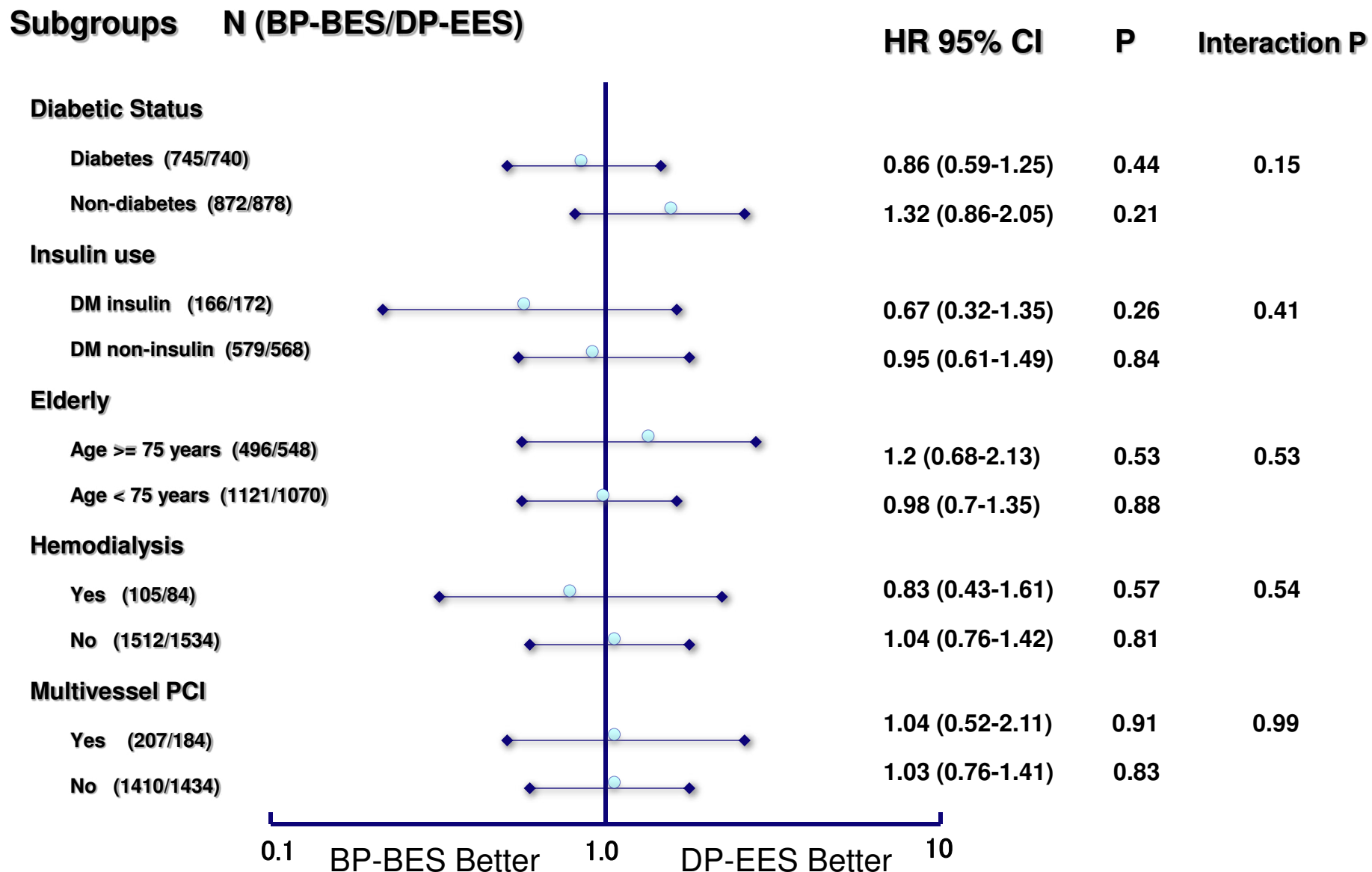
# Clinically-Driven TLR



Interval	0 day	30 days	365 days	730 days
<b>BES group</b>				
N of patients with at least 1 event		2	50	68
N of patients at risk	1617	1612	1506	1417
Cumulative Incidence		0.1%	3.2%	4.4%
<b>EES group</b>				
N of patients with at least 1 event		2	51	67
N of patients at risk	1618	1614	1503	1424
Cumulative Incidence		0.1%	3.2%	4.3%

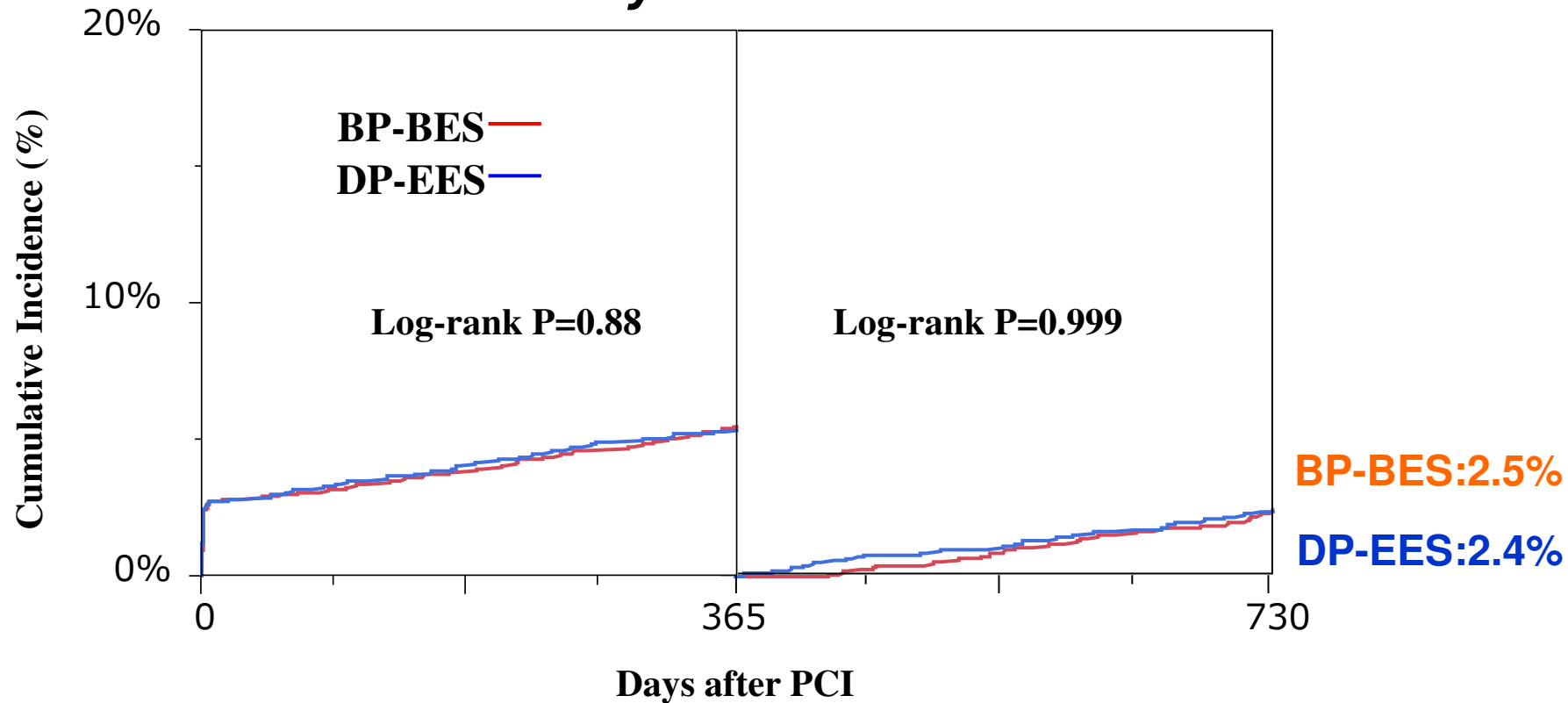
# Pre-specified Subgroup Analysis for TLR

## BP-BES versus DP-EES



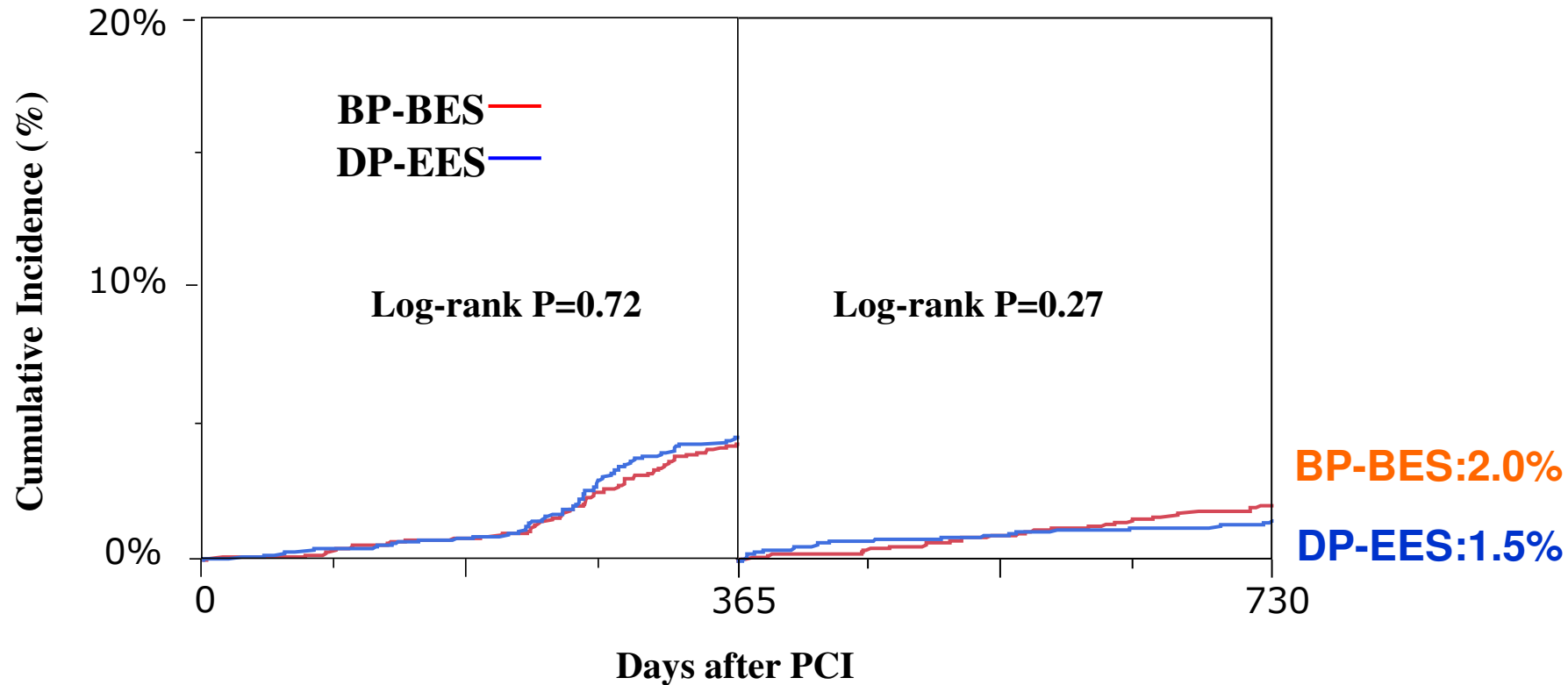
***Clinical Outcomes  
Between 1-year and 2-year  
-Landmark Analysis-***

# Landmark Analysis at 1-year Death or Myocardial Infarction



Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		47	89	37
N of patients at risk	1617	1569	1524	1465
Cumulative Incidence		2.9%	5.5%	2.5%
<b>DP-EES group</b>				
N of patients with at least 1 event		47	87	37
N of patients at risk	1618	1571	1527	1466
Cumulative Incidence		2.9%	5.4%	2.4%

# Landmark Analysis at 1-year Target-Lesion Revascularization



Interval	0 day	30 days	365 days	730 days
<b>BP-BES group</b>				
N of patients with at least 1 event		2	68	30
N of patients at risk	1617	1612	1506	1417
Cumulative Incidence		0.1%	4.3%	2.0%
<b>DP-EES group</b>				
N of patients with at least 1 event		2	72	22
N of patients at risk	1618	1614	1503	1424
Cumulative Incidence		0.1%	4.5%	1.5%



# ***Limitations***

- *Two-year follow-up is not sufficient to compare the long-term outcome between BP-BES and DP-EES.*

*The advantage of polymer degradation and no permanent polymer in the vessel wall might emerge with longer-term follow-up.*

- *Despite the all-comers trial design, the actual study population mostly included patients with stable coronary artery disease.*

- *The current study was underpowered for the interim analysis of the safety endpoint, even if this is the largest trial comparing BP-BES with DP-EES.*

# Conclusions

- *The safety and efficacy outcomes of BP-BES remained comparable to those of DP-EES through 2-year and beyond 1-year after stent implantation.*
- *There was no apparent signal suggesting long-term safety concerns on BP-BES compared with DP-EES.*
- *Network meta-analyses may be hypothesis generating but require confirmation in appropriately designed head-to-head randomized controlled trials.*
- *Longer-term follow-up is mandatory to fully understand whether BP-BES could provide any long-term benefit over DP-EES.*

# Participating Centers



Caress Sappro Tokeidai Memorial Hospital  
Oji General Hospital  
Cardio-vascular Center Hokkaido Ohno Hospital  
Caress Sappro Hokko Memorial Hospital  
Hokkaido Social Insurance Hospital  
Hokkaido Junkanki Hospital  
Teine Keijinkai Hospital  
Aomori Prefectural Central Hospital  
Iwate Prefectural Central Hospital  
Iwate Medical University Hospital  
Tohoku Kousei Nenkin Hospital  
Sendai Open Hospital  
Iwaki Kyoritsu General Hospital  
Fukushima Medical University Hospital  
Saiseikai Kurihashi Hospital  
Saitama Cardiovascular and Respiratory Center  
Dokkyo Medical University Koshigaya Hospital  
New Tokyo Hospital  
Juntendo University Hospital  
Sakakibara Memorial Hospital  
NTT Medical Center Tokyo  
The Cardiovascular Institute Hospital  
Mitsui Memorial Hospital  
Tokyo Medical University Hospital

Teikyo University Hospital  
Tokyo Women's Medical University Hospital  
Juntendo University Nerima Hospital  
Itabashi Chuo General Hospital  
Saiseikai Yokohama-city Eastern Hospital  
Kanto Rosai Hospital  
Yokohama Rosai Hospital  
Tokai University Hospital  
Yokohama City University Medical Center  
Kitasato University Hospital  
Kanazawa Cardiovascular Hospital  
University of Fukui Hospital  
Fukui Cardiovascular Center  
Ogaki Municipal Hospital  
Juntendo University Shizuoka Hospital  
Shizuoka General Hospital  
Okamura Memorial Hospital  
Seirei Hamamatsu General Hospital  
Hamamatsu Medical Center  
Aichi Medical University Hospital  
Tosei General Hospital  
Toyota Memorial Hospital  
Fujita Health University Hospital  
Japanese Red Cross Nagoya Daini Hospital

Chubu Rosai Hospital  
Nagai Hospital  
Mie University Hospital  
Mie Heart Center  
Yokkaichi Social Insurance Hospital  
Koto Memorial Hospital  
Shiga University of Medical Science Hospital  
Kyoto University Hospital  
Mitsubishi Kyoto Hospital  
National Hospital Organization Kyoto Medical Center  
Kyoto Second Red Cross Hospital  
Osaka University Hospital  
Sakurabashi Waranabe Hospital  
Osaka City General Hospital  
Osaka Saiseikai Noe Hospital  
Osaka City University Hospital  
Osaka Red Cross Hospital  
National Cerebral and Cardiovascular Center  
Sumitomo Hospital  
Higashisumiyoshi Morimoto Hospital  
Bell Land General Hospital  
Kobe City Medical Center General Hospital  
Kobe University Hospital  
Kansai Rosai Hospital  
Hyogo Prefectural Amagasaki Hospital

Hyogo College of Medicine Hospital  
Tenri Hospital  
Japanese Red Cross Society Wakayama Medical Center  
Wakayama Medical University Hospital  
Tottori University Hospital  
Matsue Red Cross Hospital  
The Sakakibara Heart Institute of Okayama  
Kurashiki Central Hospital  
Kawasaki Medical School Hospital  
Hiroshima City Hospital  
Fukuyama Cardiovascular Hospital  
Tsuchiya General Hospital  
Iwakuni Clinical Center  
Chikamori Hospital  
University Of Occupational and Environmental Health Japan  
Fukuoka Wajiro Hospital  
Kurume University Hospital  
Kokura Memorial Hospital  
Kouseikai Hospital  
Saiseikai Kumamoto Hospital  
National Hospital Organization Kumamoto Medical Center  
Kumamoto Rousai Hospital  
Miyazaki Medical Association Hospital  
Tenyokai Central Hospital  
National Hospital Organization Kagoshima Medical Center

## RESEARCH LETTER

# Two-Year Outcome of a Randomized Trial Comparing Second-Generation Drug-Eluting Stents Using Biodegradable or Durable Polymer

Recent network meta-analyses have raised concerns about the safety of biodegradable polymer drug-eluting stents (BP-DES) compared with durable polymer everolimus-eluting stents (DP-EES).<sup>1-3</sup> The NOBORI Biolimus-Eluting vs XIENCE/PROMUS Everolimus-Eluting Stent Trial (NEXT) is a 98-

center, randomized, open-label, noninferiority trial evaluating the efficacy and safety of biodegradable polymer biolimus-eluting stents (BP-BES) vs DP-EES.<sup>4</sup>

The primary efficacy outcome of target-lesion revascularization (TLR) at 1 year demonstrated noninferiority of BP-BES compared with DP-EES.<sup>4</sup> The primary safety outcome, a composite of death and myocardial infarction (MI), will be reported at 3 years. However, because the advantages of BP-BES could emerge beyond 1 year when polymer has fully degraded, we report the interim 2-year results.

Table. Clinical Outcomes at 2 Years of Follow-up in the Intention-to-Treat Population

	No. (%) of Patients With ≥1 Event <sup>a</sup>		Bivariable HR (95% CI) <sup>b</sup>	P Value
	Biolimus-Eluting Stent (n = 1617)	Everolimus-Eluting Stent (n = 1618)		
Death or myocardial infarction	126 (7.8)	124 (7.7)	1.02 (0.79-1.30)	.003 <sup>c</sup>
Target-lesion revascularization				
Any	98 (6.2)	94 (6.0)	1.04 (0.78-1.38)	<.001 <sup>c</sup>
Clinically driven	68 (4.4)	67 (4.3)	1.01 (0.72-1.42)	.95
Target-vessel revascularization	154 (9.8)	136 (8.6)	1.14 (0.90-1.43)	.28
Coronary revascularization				
Any	285 (18.1)	269 (17.0)	1.06 (0.90-1.25)	.50
Coronary artery bypass graft surgery	12 (0.8)	20 (1.3)	0.60 (0.28-1.21)	.16
Death				
All causes	76 (4.7)	73 (4.5)	1.04 (0.76-1.44)	.80
Cardiac causes	37 (2.3)	28 (1.8)	1.32 (0.81-2.18)	.26
Myocardial infarction				
Any	59 (3.7)	56 (3.5)	1.05 (0.73-1.52)	.78
Q-wave	11 (0.7)	12 (0.8)	0.92 (0.40-2.09)	.83
Target vessel	50 (3.1)	49 (3.0)	1.02 (0.69-1.51)	.92
Hospitalization for heart failure	46 (2.9)	58 (3.7)	0.79 (0.54-1.16)	.24
Stroke				
Any	35 (2.2)	37 (2.3)	0.95 (0.60-1.51)	.82
Ischemic	20 (1.3)	22 (1.4)	0.91 (0.49-1.67)	.76
Hemorrhagic	15 (1.0)	15 (1.0)	1.00 (0.49-2.07)	.99
Bleeding				
TIMI major	35 (2.3)	31 (2.0)	1.13 (0.69-1.83)	.63
TIMI minor or major	56 (3.6)	50 (3.2)	1.12 (0.76-1.64)	.56
TIMI minimal, minor, or major	102 (6.4)	108 (6.8)	0.94 (0.72-1.24)	.67
GUSTO severe	37 (2.4)	32 (2.1)	1.15 (0.72-1.86)	.55
GUSTO moderate or severe	56 (3.6)	50 (3.2)	1.12 (0.76-1.64)	.57
Definite stent thrombosis				
All patients	5 (0.31)	3 (0.19)	1.67 (0.41-8.14)	.48
Acute (0-1 d)	0	1 (0.06)		
Subacute (2-30 d)	2 (0.12)	0		
Late (31-365 d)	2 (0.12)	0		
Very late (>365 d)	1 (0.07)	2 (0.13)		
Stent thrombosis				
Possible	22 (1.4)	18 (1.1)	1.22 (0.66-2.31)	.53
Definite or probable	5 (0.31)	3 (0.19)	1.67 (0.41-8.14)	.48
Definite, probable, or possible	27 (1.7)	21 (1.3)	1.29 (0.73-2.30)	.38

Abbreviations: HR, hazard ratio; GUSTO, Global Utilization of Streptokinase and Tissue Plasminogen Activator for Occluded Coronary Arteries; TIMI, Thrombolysis in Myocardial Infarction.

<sup>a</sup> Cumulative incidence rates were estimated using the Kaplan-Meier method.

<sup>b</sup> The HRs and 95% CIs were estimated using the Cox proportional hazard model.

<sup>c</sup> Indicates noninferiority P value. The other P values indicate superiority because noninferiority analyses for the secondary outcomes were not prespecified.

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