

DES That is Available and Will be Available in Korea

Kwang Soo Cha, MD, FACC, FSCAI
Dong-A University Medical Center,
Busan

DES Available in Korea

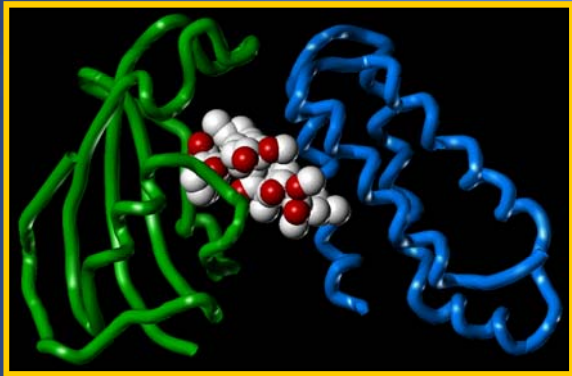
- Sirolimus-eluting (Cypher[®])
- Paclitaxel-eluting (Taxus[®])
- Zotarolimus-eluting (Endeavor[®])
- Pico^{Elite} Paclitaxel-eluting
- Coroflex[®] Please Paclitaxel-releasing



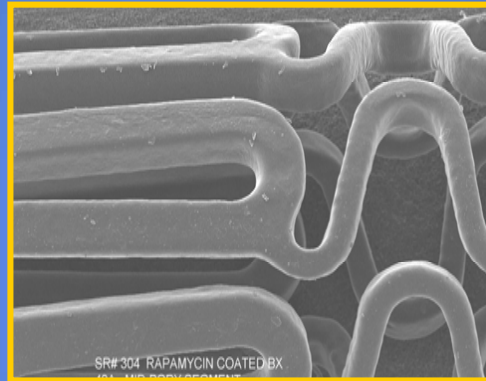
CYPHER SELECT
Sirolimus-eluting coronary
Stent

First Generation Drug-eluting Stents in the U.S.

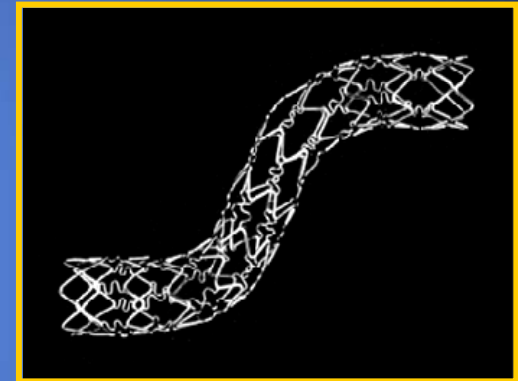
Cypher



Sirolimus
Drug



PEVA + PBMA blend
Polymer



BX Velocity
Stent

CYPHER® Select + Overview



CYPHER SELECT
Sirolimus-eluting coronary
Stent

SDS



Highly Deliverable SDS

- New design and technologies
- Optimized for deliverability and profile from tip through hub



Stent Design



Redesigned Platform

- New level of flexibility and conformability
- Uniform coverage at every vessel size

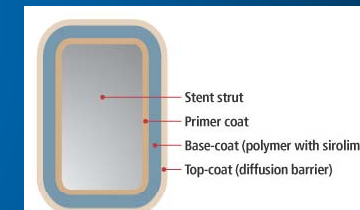


Stent Material



Stainless Steel

- High Strength
- Long record of Biocompatibility

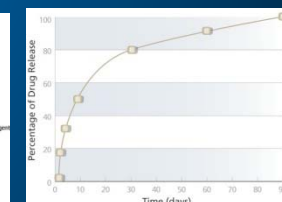
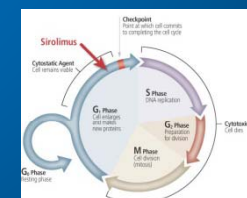


Drug



Proven Drug and Release Kinetics

- Safe, effective Sirolimus
- Moderate release profile

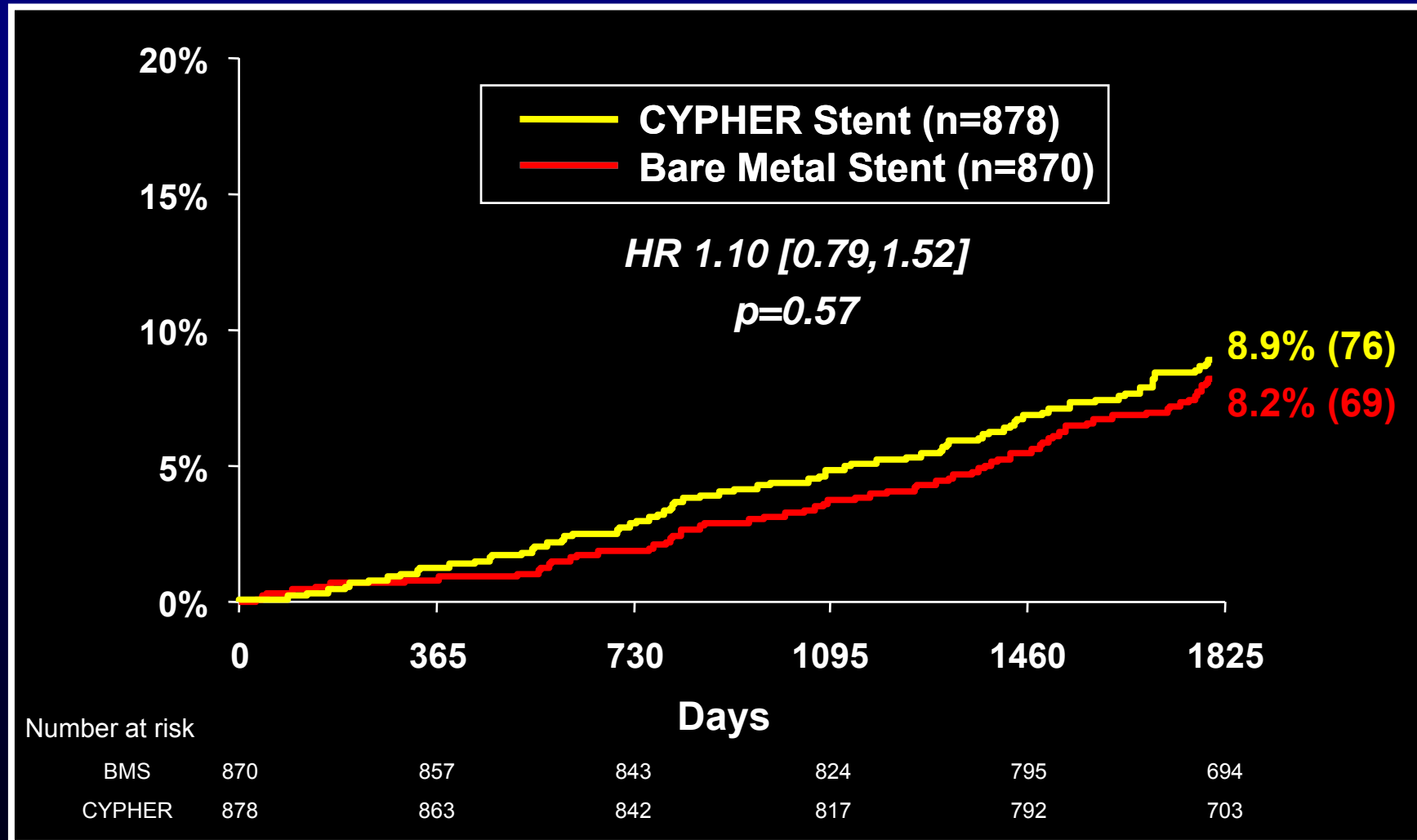


CYPHER® Select + features an advanced SDS lubricious coating technology that further enhances deliverability

The CYPHER[®] Stent Trials: Methodology

- Patient-level databases of pivotal RCTs were obtained from Cordis Corporation by the Cardiovascular Research Foundation with permission for unrestricted analyses
 - **RAVEL, SIRIUS, E-SIRIUS, C-SIRIUS**
 - **5-year data available for all trials**
- Analysis Plan (performed by M. Fahy, Sr. Biostatistician)
 - **Endpoints**
 - **Safety:**
 - Death (overall, cardiac, non-cardiac); MI (all, QWMI); composites
 - Stent thrombosis: ARC definitions; per protocol
 - **Efficacy:** TLR and TVR
 - **Survival analyses utilized** to maximally utilize all available FU information, compared by log-rank test (exact LR if <5 events)

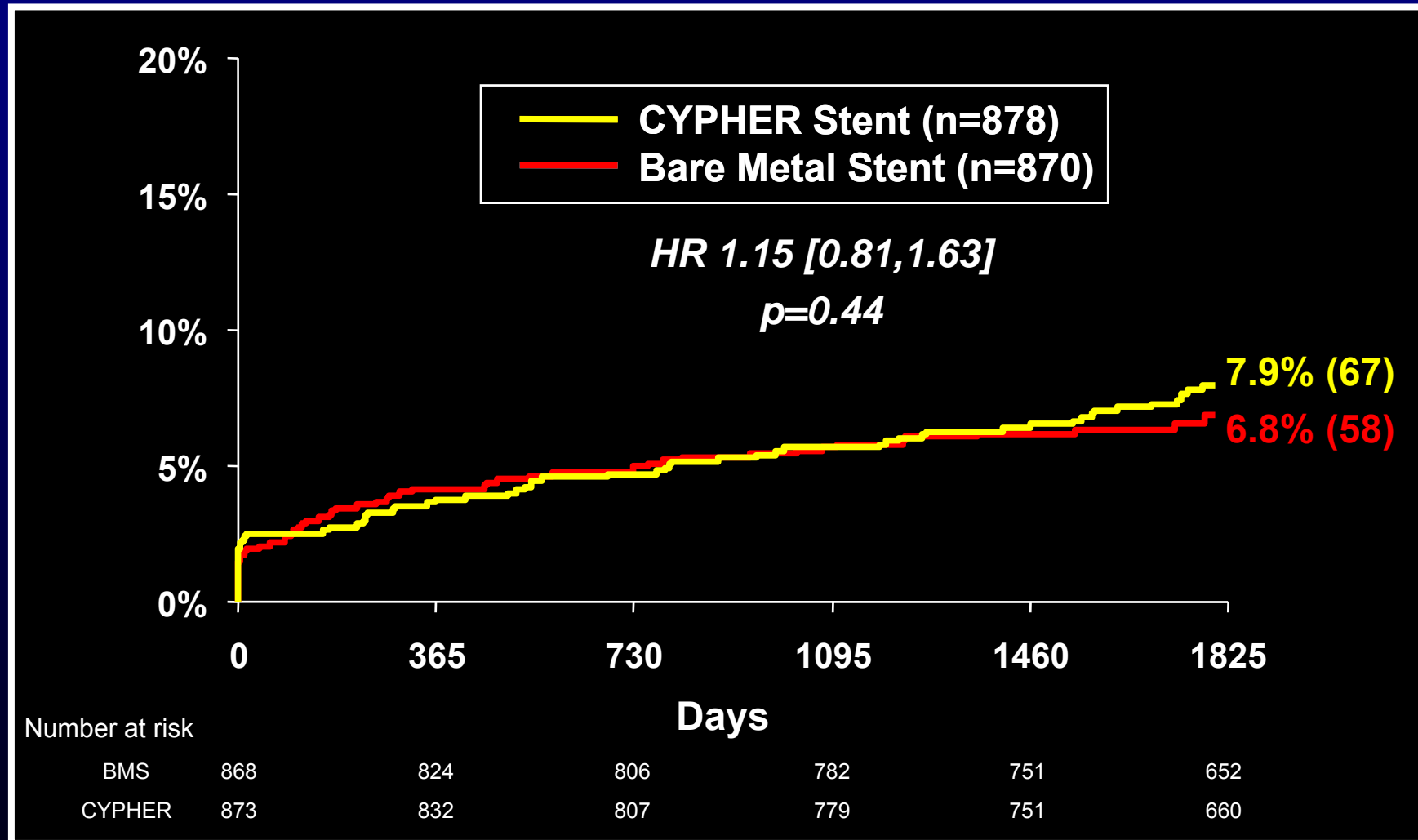
Death through 5 years: Pooled Analysis of 4 SES vs. BMS RCT's*



* RAVEL, SIRIUS, E-SIRIUS, C-SIRIUS

Kirtane A.J., et al., TCT 2007; Oral Presentation.

Myocardial Infarction through 5 years: Pooled Analysis of 4 SES vs. BMS RCT's*



* **RAVEL, SIRIUS, E-SIRIUS, C-SIRIUS**

Kirtane A.J., et al., TCT 2007; Oral Presentation.

ARC-Defined ST through 5 years: Pooled Analysis of 4 SES vs. BMS RCT's*

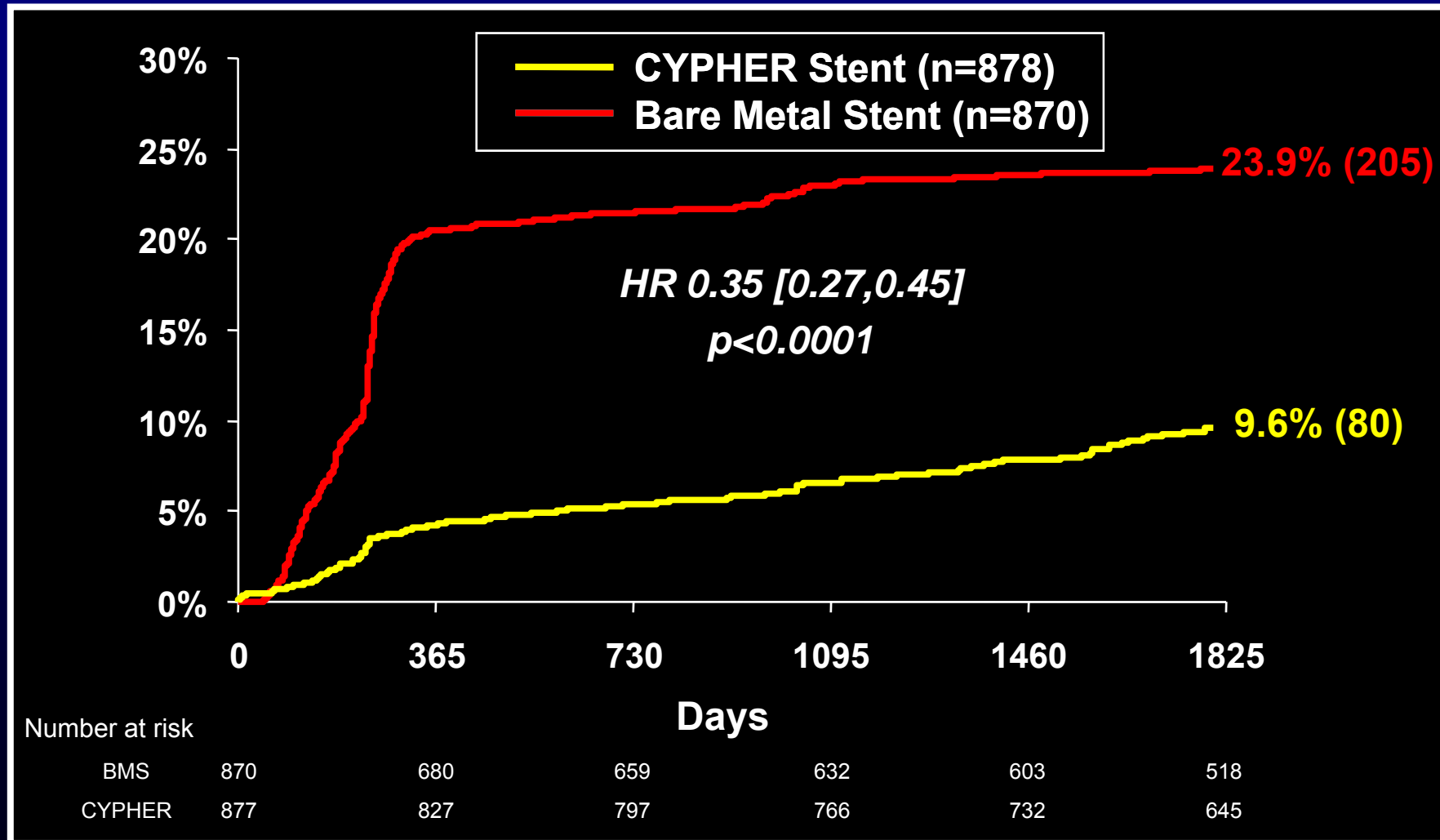
	CYPHER® (N=878) % (n)	BMS (N=870) % (n)	HR [95% CI]	p- value
Definite	1.6% (13)	1.0% (8)	1.62 [0.67,3.91]	0.28
Probable	0.5% (4)	1.0% (9)	0.44 [0.14,1.43]	0.16
Possible	2.5% (21)	2.5% (20)	1.05 [0.57,1.94]	0.88
Def/Probable	2.1% (17)	2.0% (17)	0.99 [0.51,1.95]	0.99
All	4.6% (38)	4.4% (37)	1.02 [0.65,1.61]	0.92

Kaplan-Meier estimates

* **RAVEL, SIRIUS, E-SIRIUS, C-SIRIUS**

Kirtane A.J., et al., *TCT 2007*; Oral Presentation.

TLR through 5 years: Pooled Analysis of 4 SES vs. BMS RCT's*



* RAVEL, SIRIUS, E-SIRIUS, C-SIRIUS

Kirtane A.J., et al., TCT 2007; Oral Presentation.

On-Label CYPHER® Stent Trials: Conclusions through 5-year Follow-up

- From this independent, patient-level meta-analysis from the 4 principal CYPHER® Stent trials it may be concluded that at 5-year follow-up of patients with single de novo native coronary lesions 2.5 – 3.5 mm in diameter and ≤ 30 mm in length, polymer-based sirolimus-eluting stents compared to otherwise equivalent bare metal stents result in:
 - **No significant increase in stent thrombosis**
 - No significant increase in late stent thrombosis by ARC definitions
 - **No significant differences in death or myocardial infarction at any time period**
 - **Sustained reduction in target lesion and target vessel revascularization**

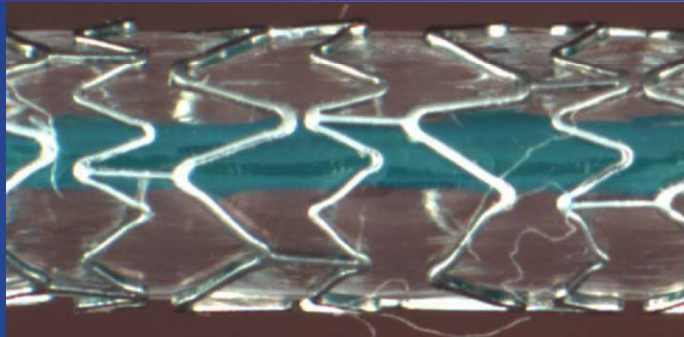
TAXUS™ Stent Platforms: Switching from Express²™ stent design to Liberté™ stent design

**Boston
Scientific**



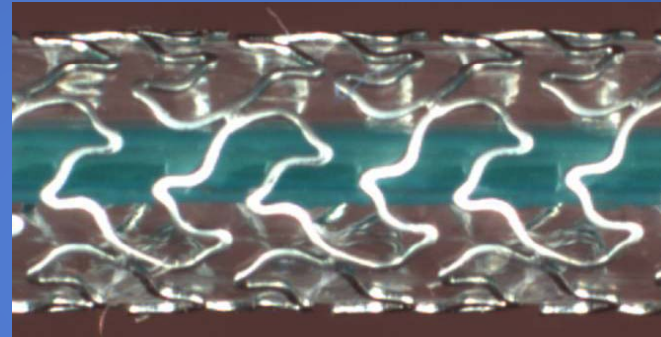
TAXUS™ Liberté™
Paclitaxel-Eluting Stent

Express²™ Stent Design



Alternating macro & micro elements

Liberté™ Stent Design



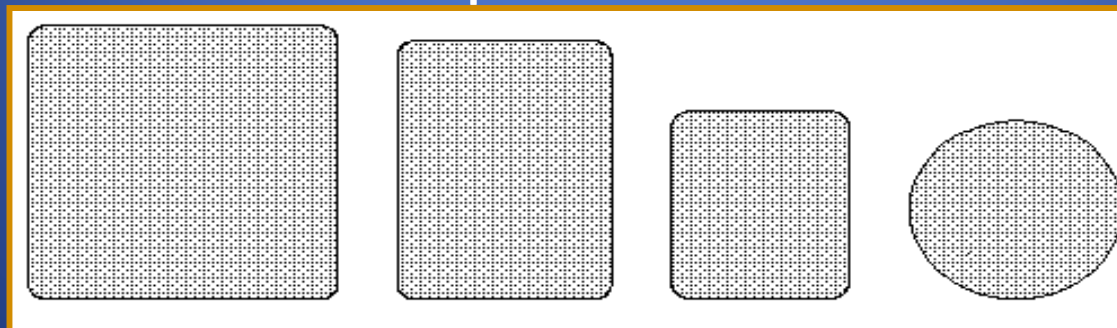
Uniform, repeating cell geometry

Cypher® Select

**TAXUS
Express®**

Liberté™

Driver®



**Material
Thickness**

**0.0055"
SST**

**0.0052"
SST**

**0.0038"
SST**

**0.0036"
MP35N**

Expanding the **TAXUS™** Stent Program

Paclitaxel-Euting **NIRx™** / **TAXUS Express²™** Stent
 >16,000 patients

TAXUS™ Liberté™ Stent
 28,000 patients planned

		NAME	STATUS	N	NAME	STATUS	N
Registries	Real World	WISDOM	Completed	778	<u>OLYMPIA</u>		
					• Phase I	Completed	529
		MILESTONE II	Completed	3688	• Phase II	Enrolling	5504/10000
		ARRIVE 1	Follow-up	2585	• Phase III	Enrolling	10521/15000
		ARRIVE 2	Follow-up	5007	• Phase IV	Planned	2500
Studies	Expansion	TAXUS V-DN	Follow-up	1156	<u>TAXUS ATLAS</u>		
		TAXUS V-ISR	Follow-up	421	• Direct stent	Follow-up	247
		SYNTAX (3VD & LM)	Enrolling	1548/1800	• Long lesion	Follow-up	150
					• Small vessel	Follow-up	261
Studies	Foundation	TAXUS II	Follow-up	536	TAXUS ATLAS		
		TAXUS III	Follow-up	28	• De novo	Follow-up	871
		TAXUS IV	Follow-up	1314			
		TAXUS VI	Follow-up	446			

TAXUS ATLAS Trial: Study Design

871 patients with coronary heart disease and **de novo lesions** 10-28 mm long with reference vessel diameter of 2.5-4.0 mm treated with a single stent

Treatment with TAXUS
Liberté paclitaxel -
eluting stent during PCI
N=871

Angiographic follow up at
9 - months

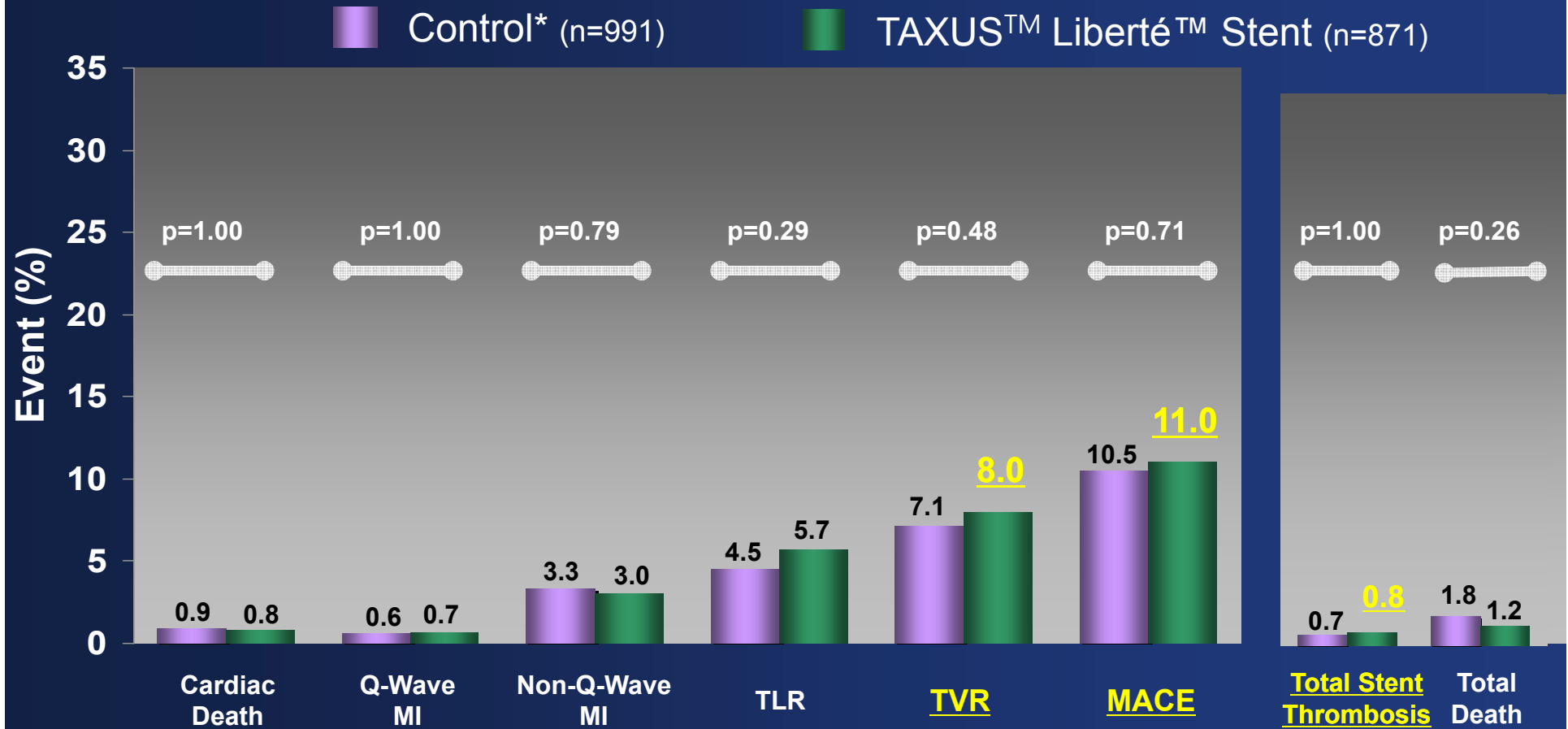
Historical control data from
TAXUS **IV** and TAXUS **V** trials
(TAXUS **Express** stent)
N=991

Historical control data of
Angiographic follow up at 9 –
months

- Primary Endpoint: Target vessel revascularization (**TVR**) at **9 months**, evaluated for non-inferiority compared with historical controls from the TAXUS IV and V trials

TAXUS ATLAS

Overall MACE Results at 9 months



TAXUS ATLAS 9-month Results, Mark Turco, EuroPCR 2006.

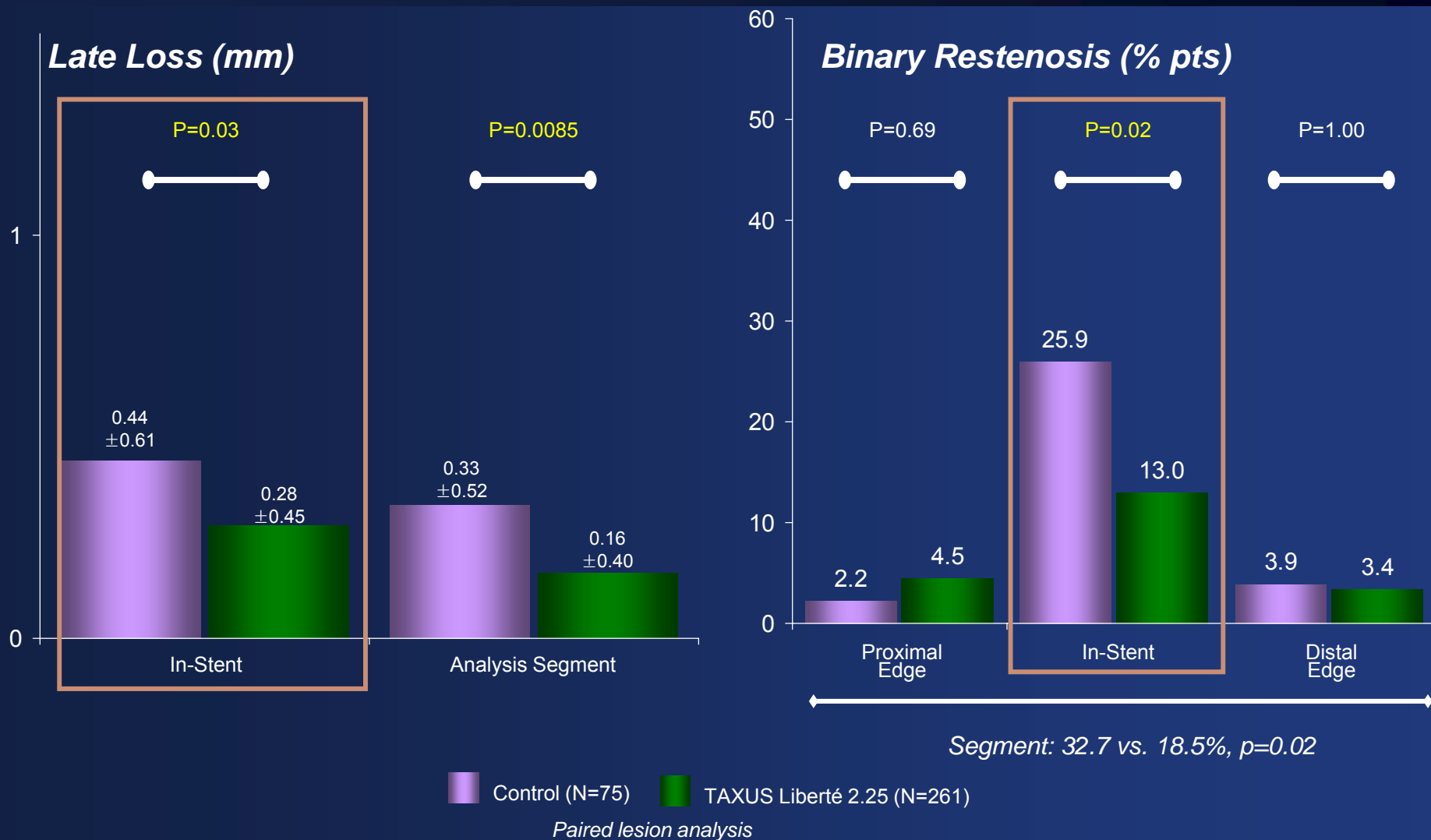
*TAXUS™ Express™ Stent in the TAXUS IV Trial and TAXUS™ Express2™ Stent in the TAXUS V Trial. TAXUS™ Express™ Stent is an investigational device and is not for sale in the EEA.

TAXUS ATLAS Trial: Summary

- Among patients with de novo lesions undergoing PCI, use of the Taxus Liberté stent paclitaxel-eluting stent was non-inferior when compared with historical controls from the TAXUS IV and TAXUS V trials, which used the Taxus Express stent.
- When compared to the Taxus Express stent, the **Taxus Liberté** has thinner struts which aids in flexibility and a lower profile.
- The Taxus Liberté stent is currently also involved in trials of direct stenting, small vessels and long lesions
- Results of the TAXUS ATLAS study should be interpreted with caution as it was a single arm registry study, and the Taxus Liberté stent was not compared to an active control arm but to historical data.

Angiographic Outcomes at 9 month

Clinical Data for TAXUS™ Liberté™ 2.25 mm Stent



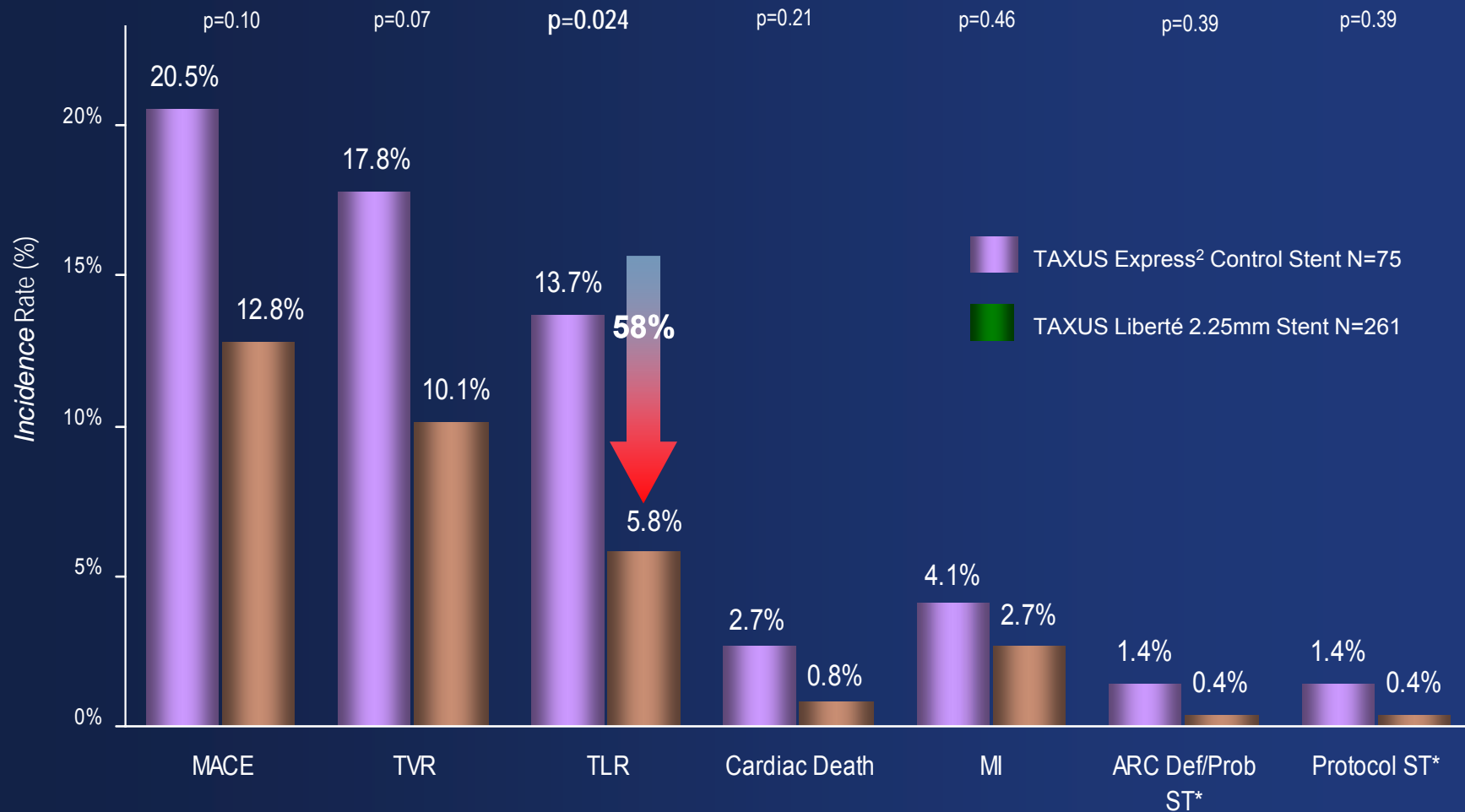
TAXUS ATLAS small vessel study - Data presented by Dr. Mark Turco, TCT 2007.

Control: TAXUS V study pts with RVD≤2.5mm, lesion 28mm Single planned 2.5 or 2.25mm study stent; non-inferiority comparison to TAXUS Express² Stent; and superiority to Express² BMS.

TAXUS ATLAS Small Vessel Study

9-Month Clinical Events

TAXUS™ Liberté™ 2.25mm Stent significantly reduces TLR compared with TAXUS Express²™ 2.25mm Stent.

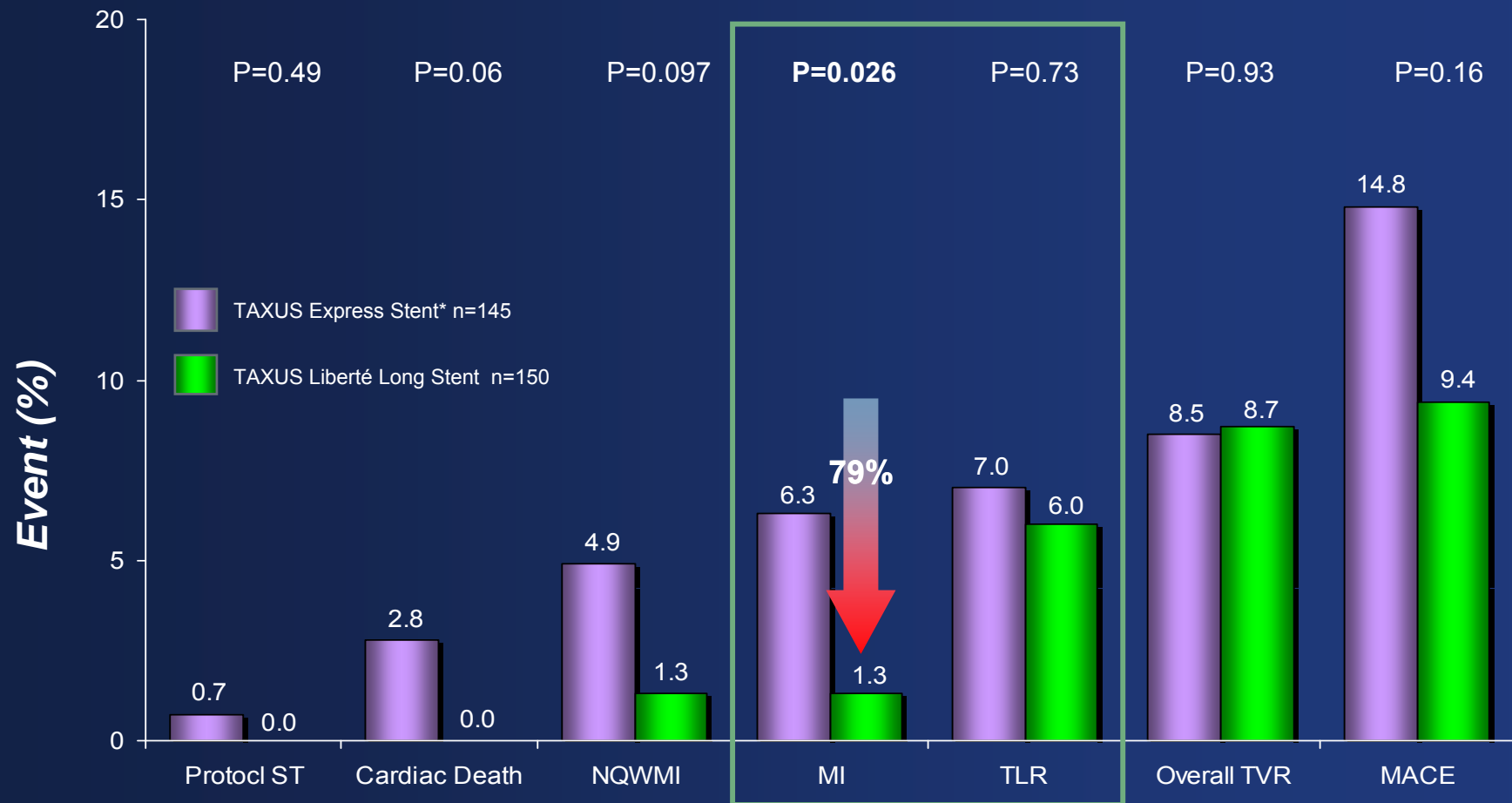


*Stent Thrombosis value was the same for both protocol and ARC Def/Prob

TAXUS ATLAS Long Lesion Study:

TAXUS™ Liberté™ Long (38mm) Stent is as effective as TAXUS Express™ Stent* while reducing the risk of MI

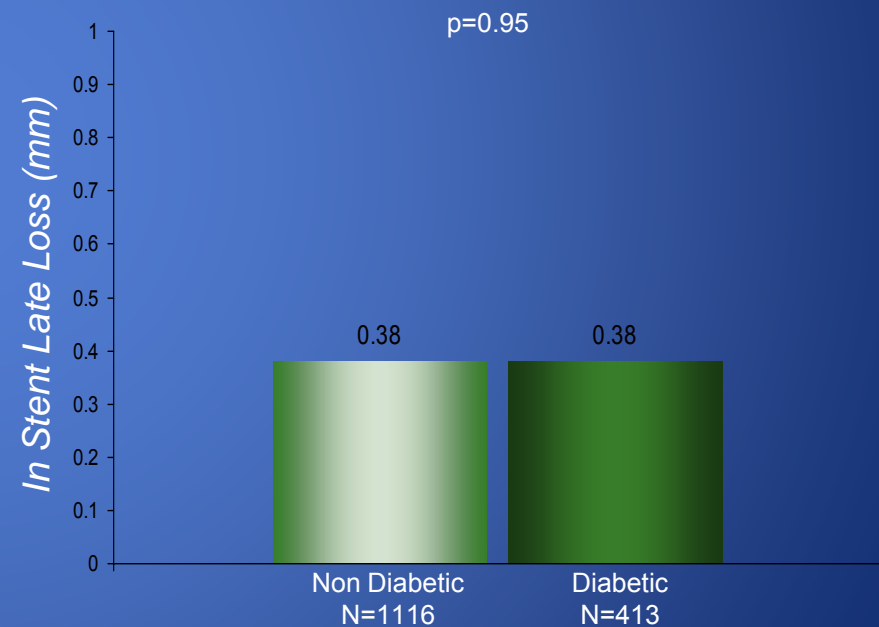
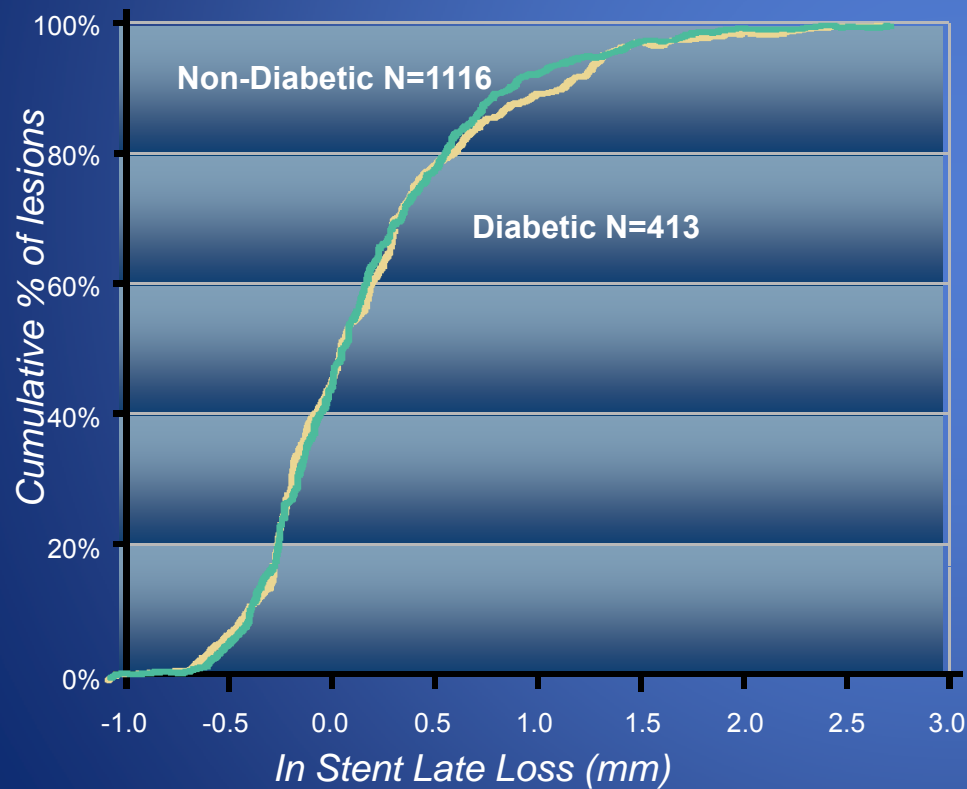
TAXUS Liberté Long Stent had significantly lower MI



1. In patients with no non-target lesion. *TAXUS Express Stent in the TAXUS IV Trial and TAXUS Express² Stent in the TAXUS V Trial. TAXUS Express Stent is an investigational device not for sale in the European Economic Area (EEA).

TAXUS ATLAS Study **diabetic analysis:** The TAXUS™ **Liberté™** Stent attenuates the risk of restenosis in diabetic patients¹

The TAXUS Stent has the same performance in both diabetics and non-diabetics



1. Risk of Restenosis in Diabetics and Non-diabetics: Results from the TAXUS ATLAS Program, eposter presented by Dr J Ormiston, TCT 2007

Source: TAXUS ATLAS Diabetic Analysis e-poster

Expanding the TAXUS™ Stent Program

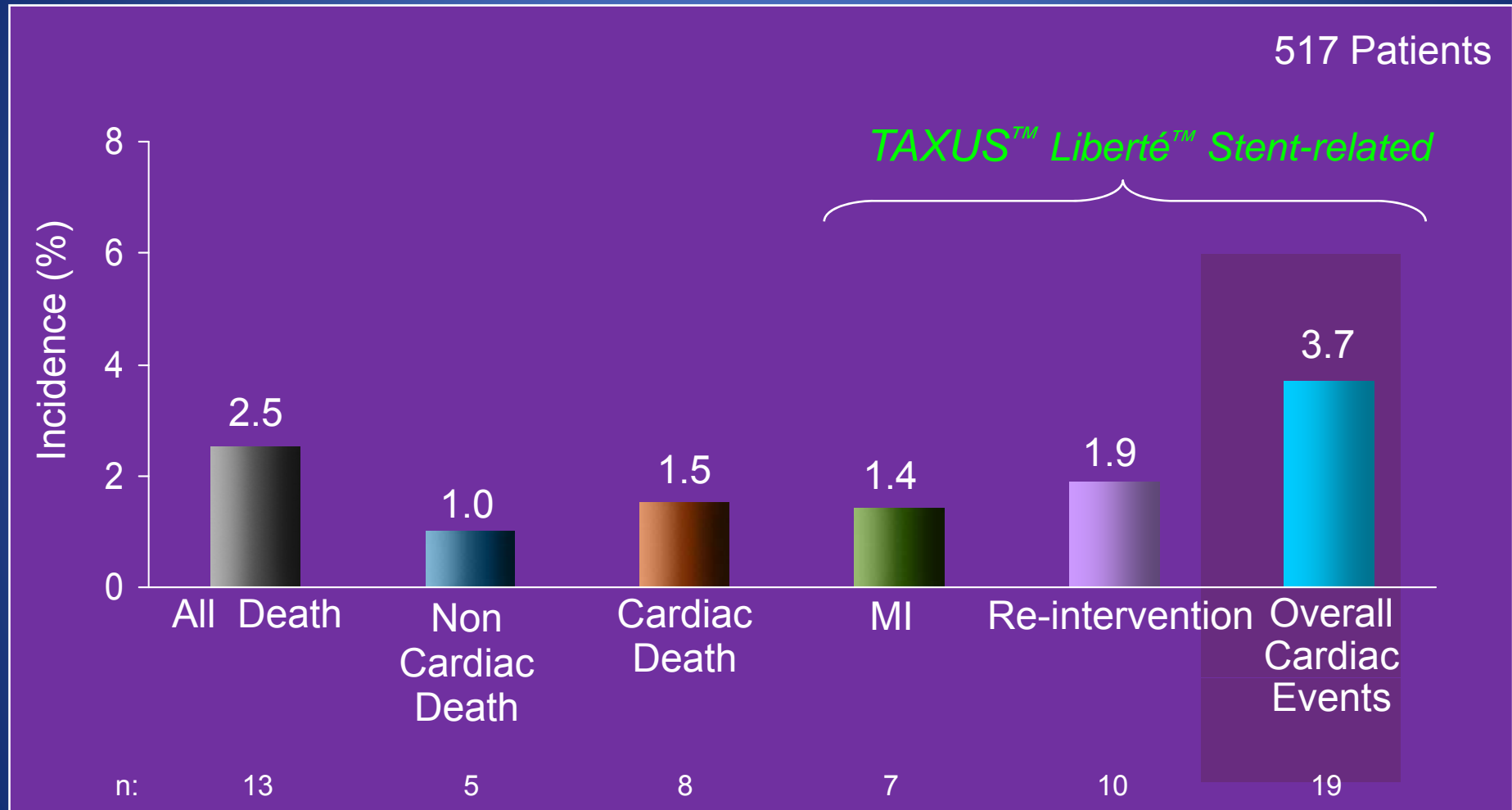
Paclitaxel-Euting **NIRx™** / **TAXUS Express²™** Stent
 >16,000 patients

TAXUS™ Liberté™ Stent
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TAXUS™ OLYMPIA Phase I Results

12-Month Cardiac Events

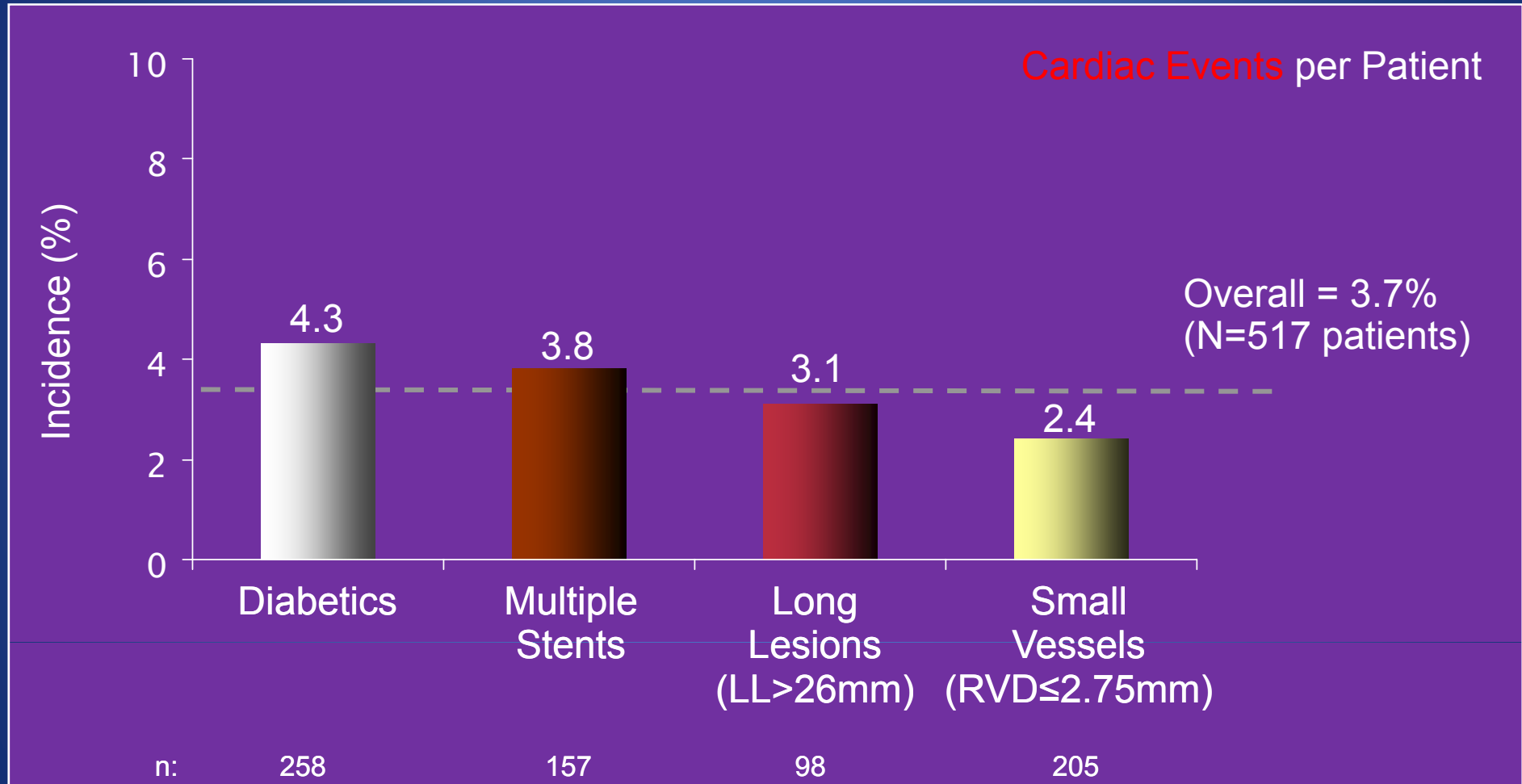


Low cardiac event rates in overall patient population

TAXUS™ OLYMPIA Registry

Phase I 12-Month Results

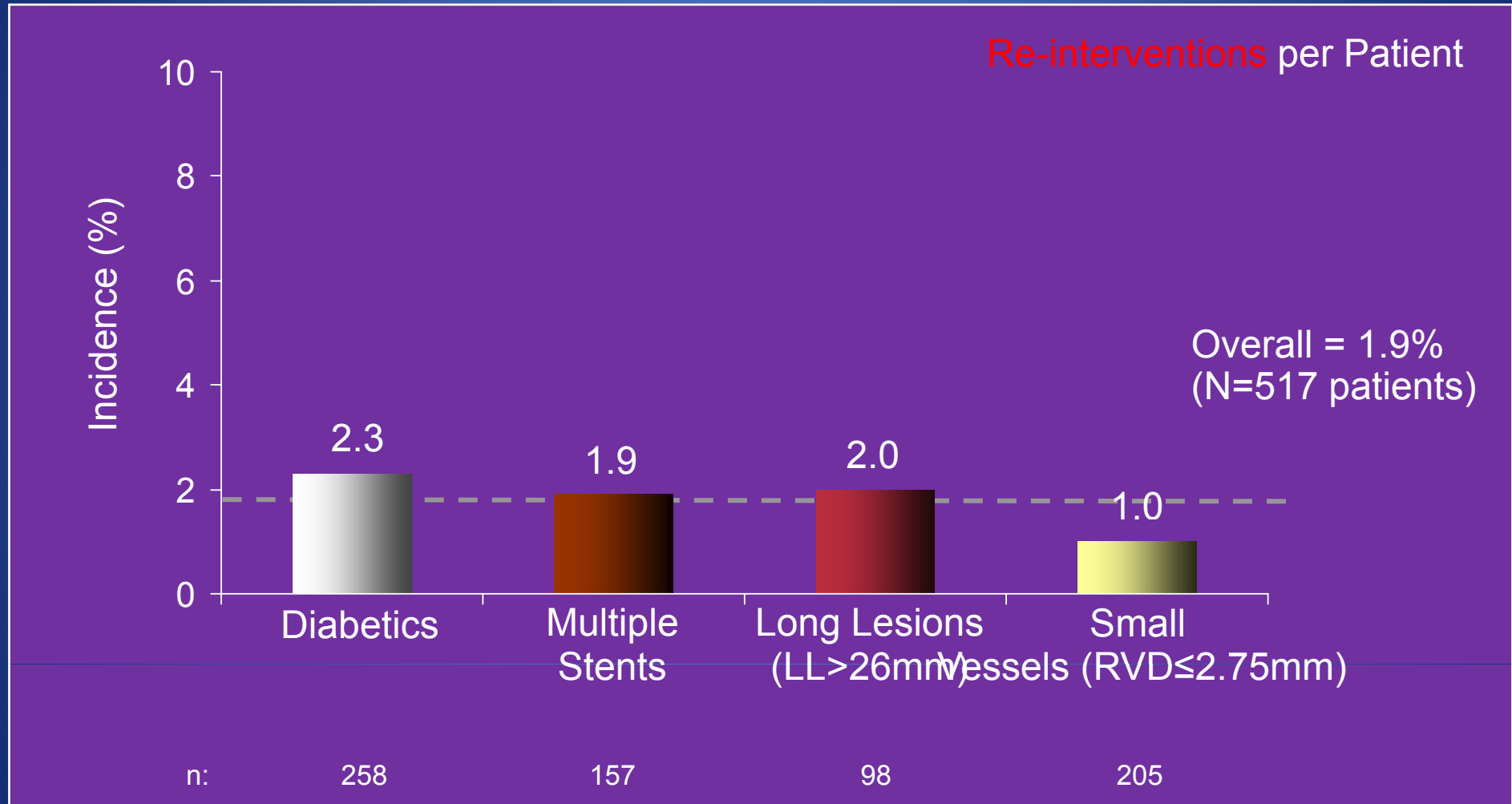
TAXUS™ Liberté™ Stent-Related **Cardiac Events**: High Risk Subsets



Low cardiac event rates in high-risk subsets

TAXUS™ OLYMPIA Registry Phase I Results

12-Month TAXUS™ Liberté™ Stent-Related Re-interventions: High-Risk Subsets



➔ Rates in high-risk subsets **similar to** overall population

TAXUS™ OLYMPIA Registry Summary

Phase I 12-Months and Preliminary Phase III 6-Months

Complex usage patterns reflecting evolving “real-world” practice

	Phase I	Phase III
Diabetics	50%	32%
Multiple Stenting	30%	32%
Long Lesions (>26mm)	19%	15%
Small Vessel (≤ 2.75 mm)	40%	40%

Low occurrence of **cardiac events**

	12 Months	6 Months
Cardiac Death	1.5%	0.9%
MI	1.4%	0.9%
Re-intervention	1.9%	1.8%

Low **stent thrombosis** rates

	12 Months	6 Months
	1.7%	0.5%

Components of the Endeavor DES System

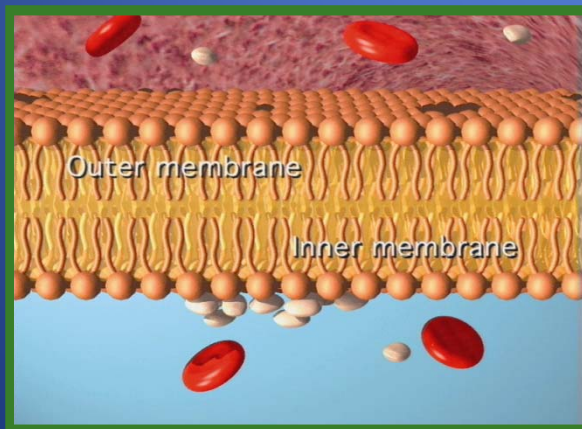


Endeavour™
Zotarolimus-coated stent

Driver Cobalt Alloy Stent



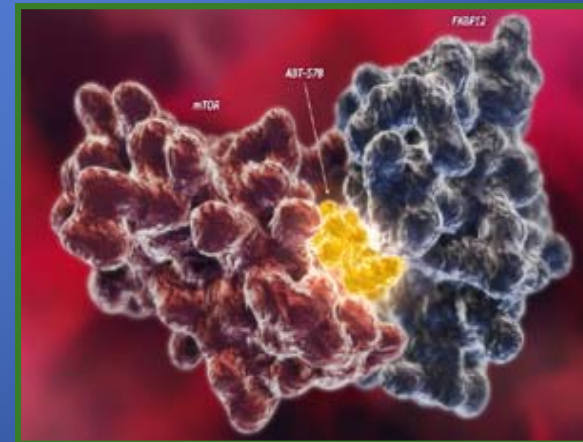
PC Technology



Stent Delivery



Drug: Zotarolimus



ENDEAVOR Clinical Program Overview

9m 12m 2yr 3yr 4yr

ENDEAVOR I	Single Arm First-in-Man (n = 100)	4yr
ENDEAVOR II	1:1 RCT vs BMS (E = 598, D = 599) PK (n = 106)	3yr
ENDEAVOR II CA	Continued Access Single Arm (n = 296)	2yr
ENDEAVOR III	3:1 RCT vs Cypher[®] (E = 323, C = 113)	2yr
ENDEAVOR IV	1:1 RCT vs Taxus[®] (E = 773, T = 775)	12mo
ENDEAVOR PK	Pharmacokinetic Study (n = 43)	9mo
ENDEAVOR Japan	Single Arm (n = 99)	12mo

Ongoing

PROTECT 1:1 RCT vs Cypher (E = 4400, C = 4400)

E-FIVE Open Label Single Arm (n = 8000)

Proposed

US Post Approval Open Label Single Arm Study (n = 2000)

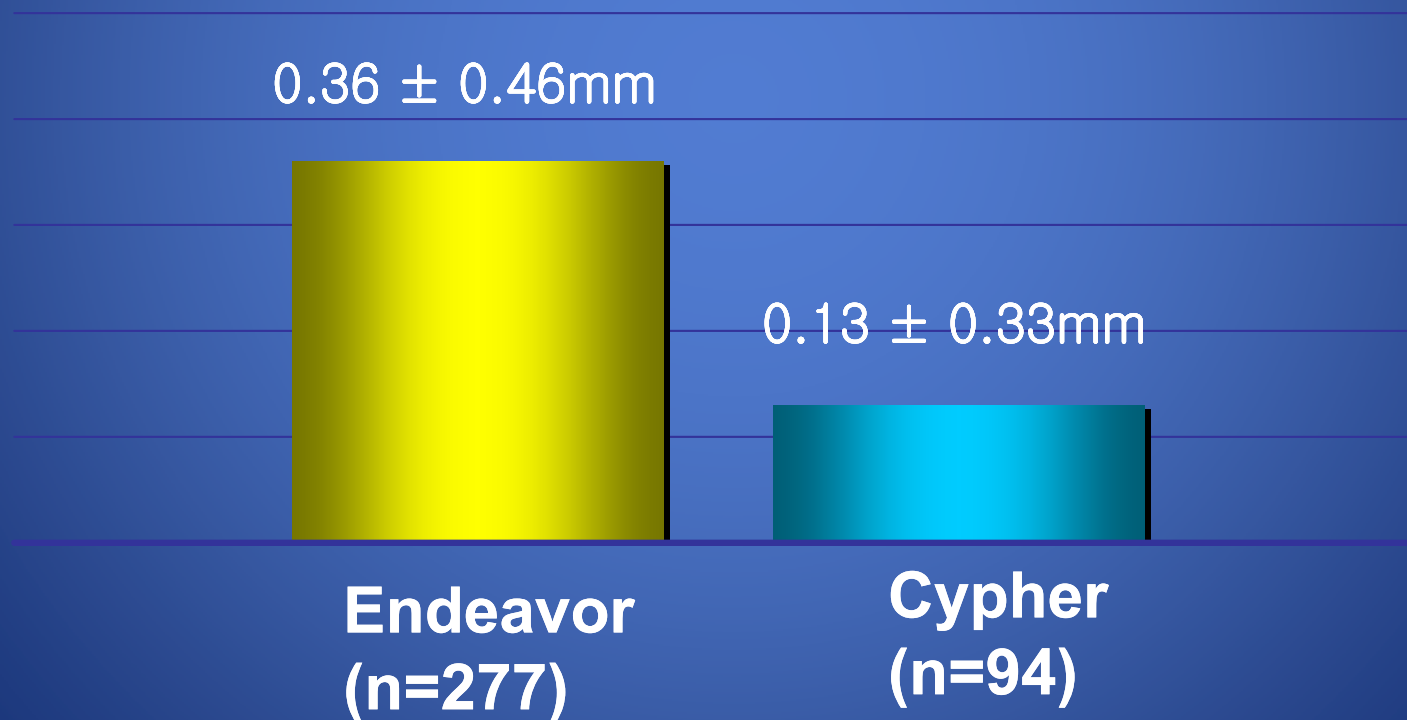
ENDEAVOR III

Primary Endpoint Result

In-segment Late Loss at 8 months

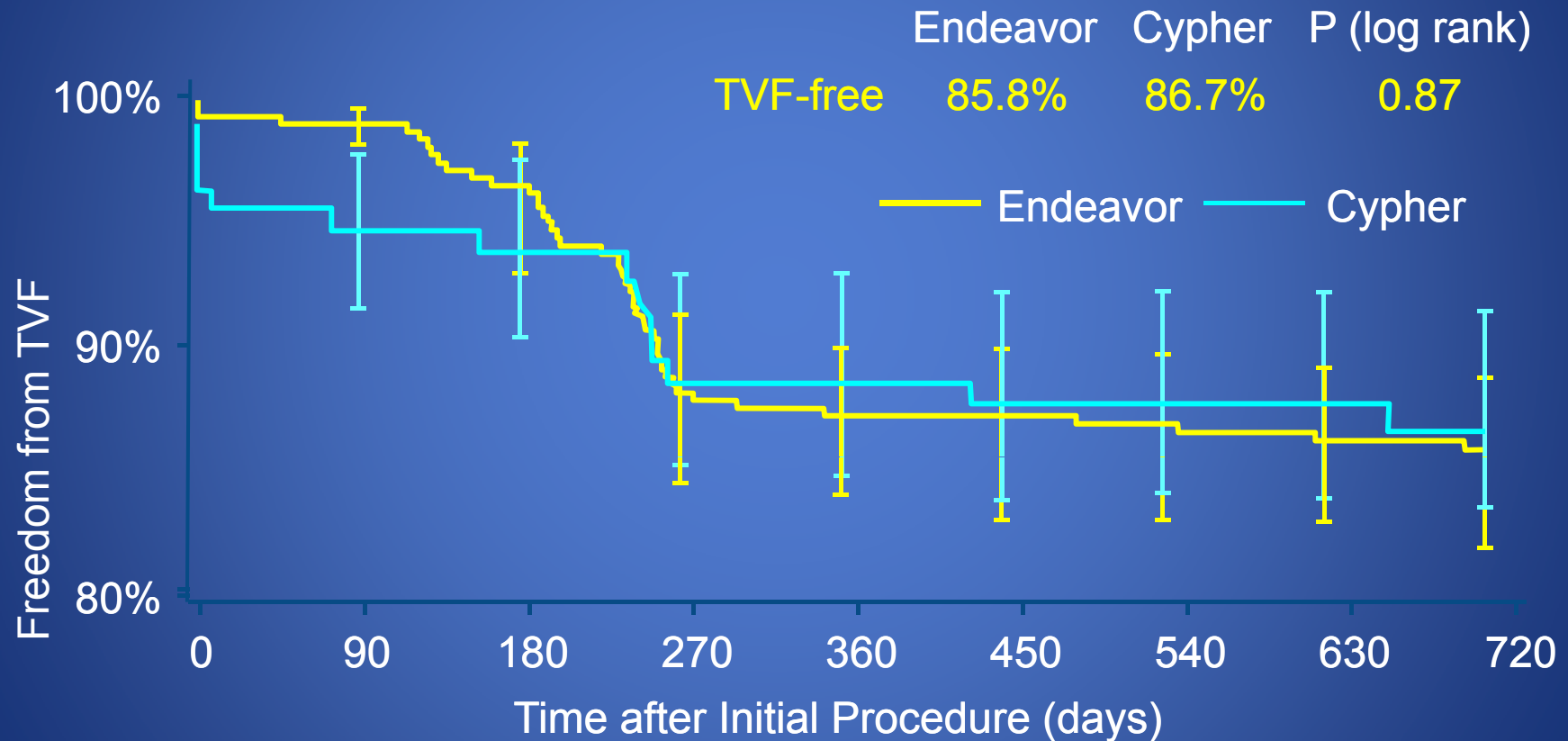
P for Non-Inferiority 0.791

P for Difference = <0.001



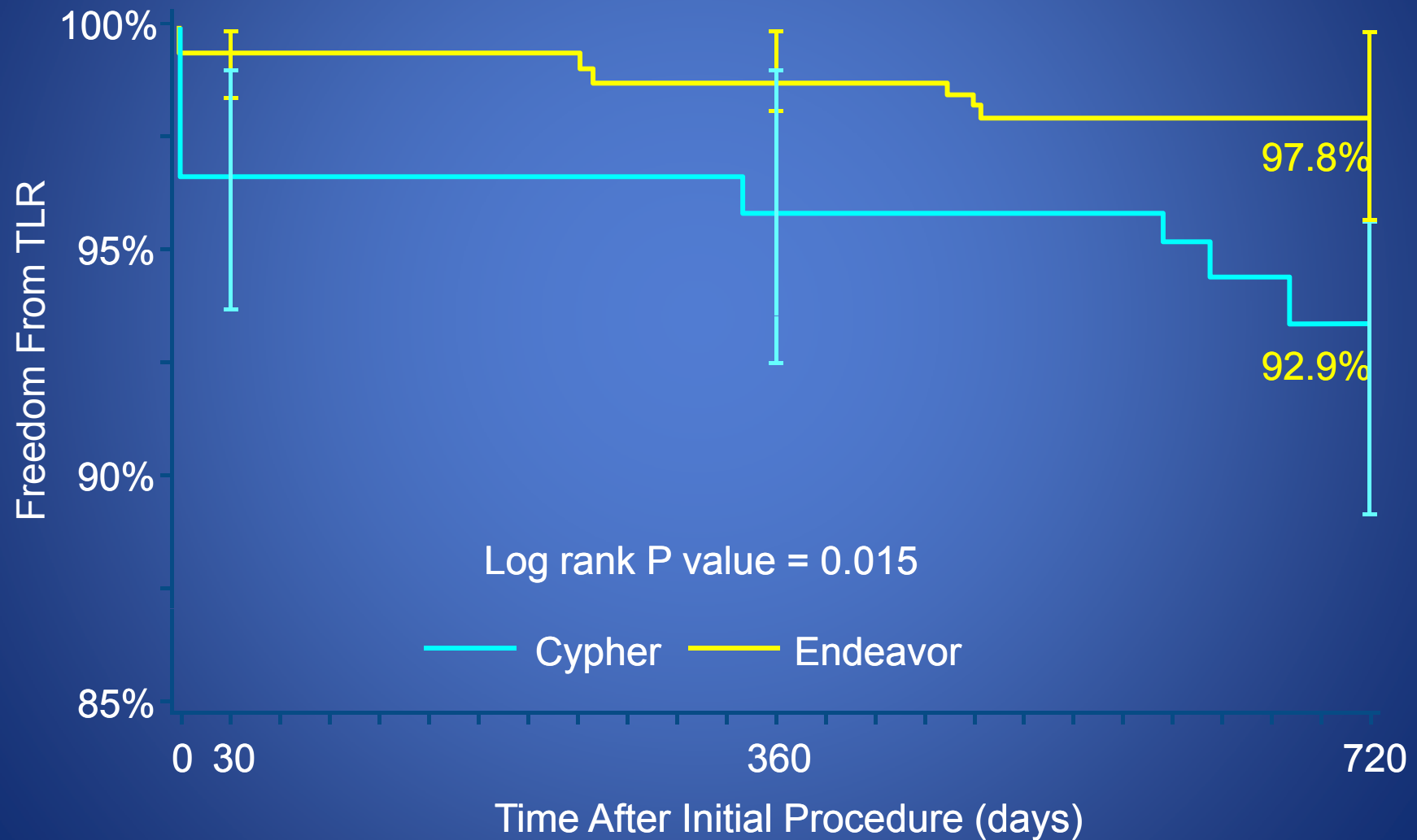
ENDEAVOR III

TVF Event Free Survival to 720 days



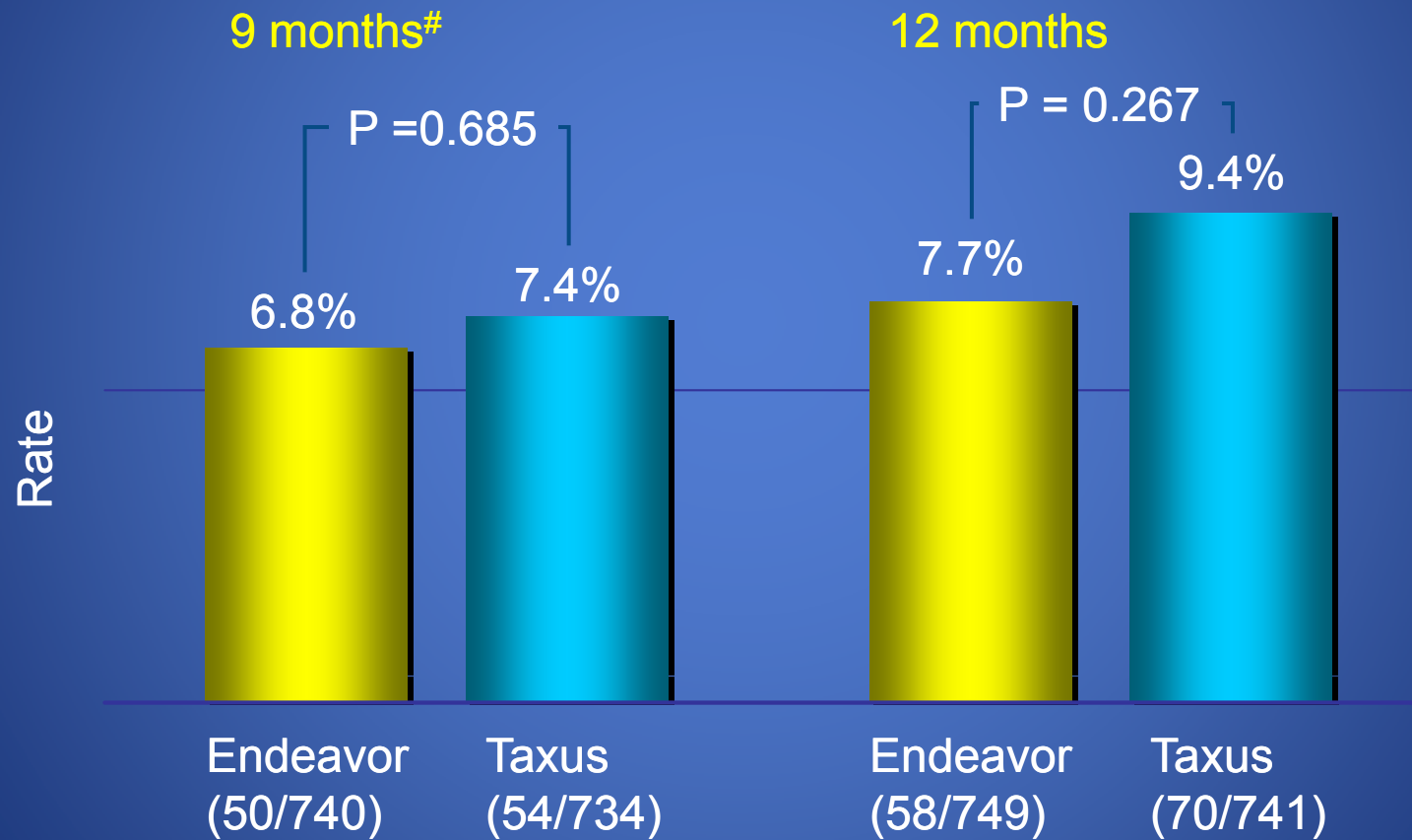
ENDEAVOR III Safety Analysis

All Cause Mortality/MI



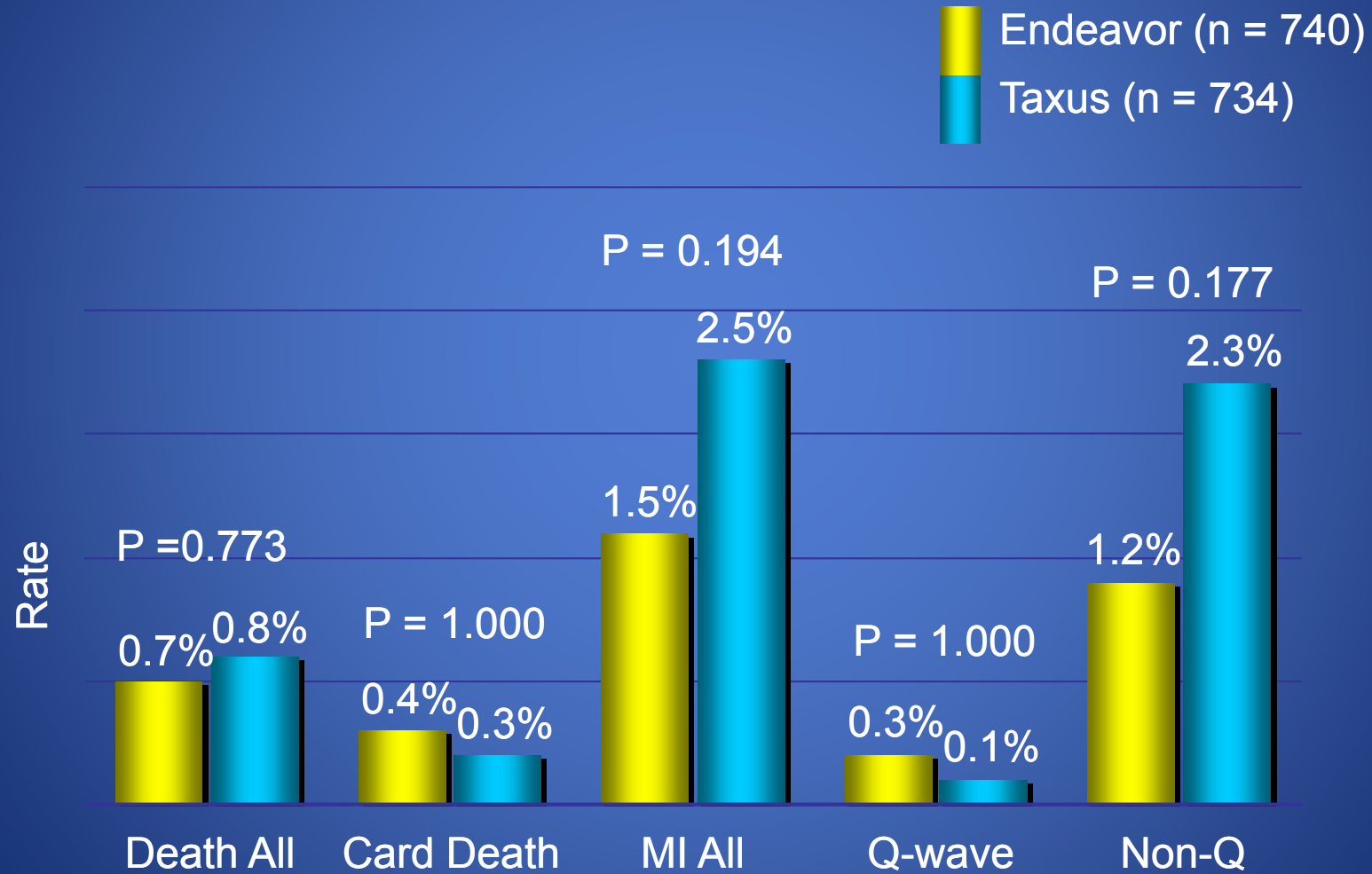
ENDEAVOR IV

Target Vessel Failure



ENDEAVOR IV

Death and MI at 9 Months[#]





PICCO *Elite*

Paclitaxel-Eluting Coronary Stent

ELITE Registry Europe - *Study Design*

362 patients enrolled, with $\geq 50\%$ stenosis in de novo lesions
in native coronary vessels between 2.0 and 4.0 mm in diameter
multi-center study at 10 sites

Non Randomized

- Primary Endpoint: Efficacy
MACE & Angiographic TVF at 6, 12, 18, 24 months
- Second Endpoint: Safety
Acute Stent Thrombosis
MACE at 6, 12, 18, 24 months
Acute success, TVF in hospital at 1, 6, 9 months,
Restenosis Rate

Dr. D. Glogar (in Wien University clinic in Austria) et al. in 10 European centers

6 months follow-up

No. of patients	217 patients
Acute stent thrombosis	0
Acute MI	0
TVR	2.3 %
MACE	4.6 %
Binary Restenosis	6.9 %

Dr. D. Glogar (in Wien University clinic in Austria) et al. in 10 European centers

Coroflex® Please ; Paclitaxel-releasing Coronary Stent System

Coroflex Stent
Platform

Carrier Catheter
SeQuent

Coroflex Please:
Product combination
Medical/Pharma

Pharmacologic
agent: **Paclitaxel**

Drug carrier:
Polysulfone
polymer



Coroflex Please – superior coating quality and integrity

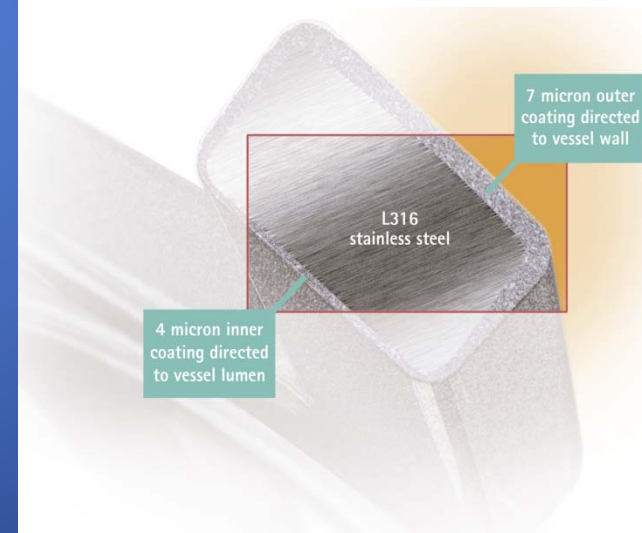
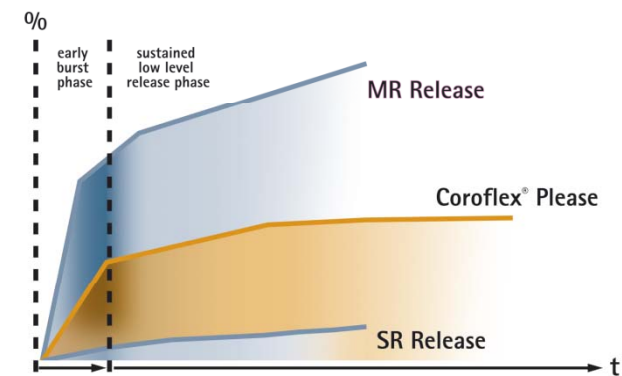
Polysulfone:

- uniform
- reproducible → **equivalent to TAXUS**
- consistent release of paclitaxel from the stent

Distinctive features: asymmetric coating

- targeted drug release -> directed to vessel wall
- no drug loss towards growing endothelium
- stable, non thrombogenic surface

Paclitaxel release kinetics

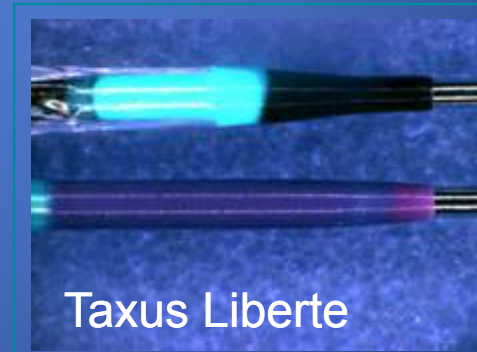


...superior technical features compared to TAXUS

	Tip Profile
Coroflex	0.017"
Please	0.019"
Taxus Liberté	0.019"
Endeavor	0.020"
Cypher Select	

- lowest lesion entry profile for Coroflex Please

- the more thinner and more flexible tip design of Coroflex Please facilitates systems crossing for an improved lesion access



* based on measurements of 3.0mm diameter stents. Data on file.

Pilot Study: PECOPS I

PECOPS I

The Paclitaxel-eluting Coroflex Please Stent a Pilot Study

M. Unverdorben, R. Degenhardt, W. Bocksch, D. Horstkotte, C. Nienaber, H. Schneider, C. Vallbracht, M. Wiemer

A prospective **non-randomized**, one-armed multi-center trial on safety and efficacy of Coroflex® Please

PECOPS I- TAXUS II at 6 months

	<u>Please</u>	<u>SR</u>	<u>MR</u>
MI	1,1		
Thrombosis (%)	1,1		
TLR (%)	5,7	4,6	3,1
MACE (%)	8,0	8,5	7,8
Late Loss (mm)	0,47	0,31	0,30
Restenosis rate In-stent (%)	3,9	2,3	4,7
Restenosis rate In-segment (%)	7,8	5,5	8,6

→ 6 month results are comparable to TAXUS

Comparison PECOPS I- TAXUS II at 1 Year

	<u>Please</u>	<u>SR</u>	<u>MR</u>	
Thrombosis (%)	1,1			
PCI	7,0			
CABG	2,3			
MI	1,2			
Death	1,2			
Total MACE	12,8	10,9	9,9	n.s.

→ Four MACE events between 6 and 12 months

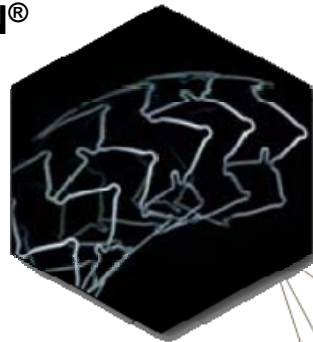
→ No additional thrombosis

DES That Will Be Available in Korea

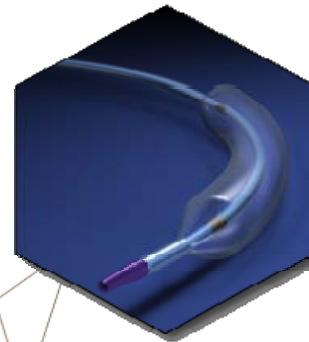
- Everolimus-eluting (Xience[®]/ Promus[®])
- Zotarolimus-eluting (Endeavor Resolute[®])
- Biolimus-eluting (Nobori[®], Terumo)
- Conor[®] Sirolimus-eluting
- Bioabsorbable DESs
-
-

XIENCE™ V / PROMUS™ : Optimizing DES Components

MULTI-LINK VISION®
Stent



MULTI-LINK VISION®
Stent Delivery
System

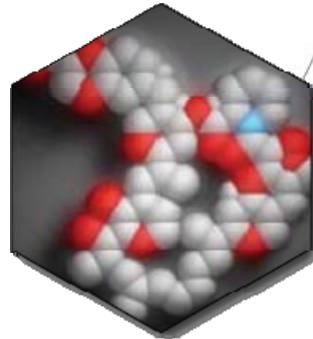


Deliverability

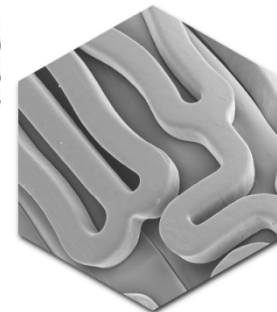
Efficacy

Safety

Everolimus



Fluorinated Co-
Polymer



XIENCE V / PROMUS™

Built On The Proven **MULTI-LINK VISION** Stent Platform

Cobalt Chromium Technology

- Allows for thinner struts without compromise to radiopacity or radial strength¹



Thin Strut Stent Design

- Outstanding flexibility and conformability
- .0032" (0.081 mm) strut thickness²



Low System Profile

- Excellent deliverability



ML VISION® Stent Delivery System

- Soft, highly flexible Pebax balloon material
- Short tapers



¹ As compared to stainless steel. Source: ASTM International.

² Tests performed by and data on file at Abbott Vascular.

SPIRIT Family of Trials

	SPIRIT FIRST	SPIRIT II	SPIRIT III	SPIRIT IV	SPIRIT V
Trial Objective	Safety and Performance	Clinical Support for CE Launch	Pivotal Study: US & Japan Approval	US Peri-Approval	Post-CE Mark Approval
Location & Participants	Europe n=60	International n=300	US: 1,292 RCT: 1,002 (80 sites) Japan: 88 (12 sites) n=1,380	US n=1,125 40 sites	International n~3000 Diabetic Study n~300 Registry n=2,700
Enrollment Status	Completed	Completed November 2005	US RCT: completed Mar 2006 SV: Began Q4 2006	Began August 2006	Not Yet Reported
Devices Compared	XIENCE™ V (PROMUS™) Stent compared to Multi-Link VISION™ BMS	XIENCE™ V (PROMUS™) Stent compared to TAXUS™ Express²™ Stent	XIENCE™ V (PROMUS™) Stent compared to TAXUS™ Express²™ Stent	XIENCE™ V (PROMUS™) Stent compared to TAXUS™ Express²™ Stent	XIENCE™ V (PROMUS™) Stent compared to TAXUS™ Express²™ Stent

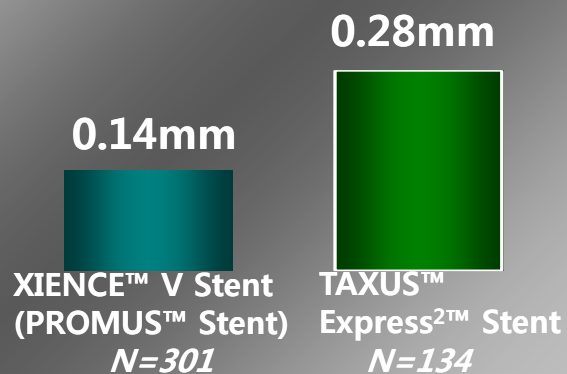
SPIRIT III Clinical Trial

Primary and Major Secondary Endpoints

Primary and Secondary Endpoint Met
XIENCE™ V/ PROMUS™ Stent *non-inferior* to TAXUS Stent

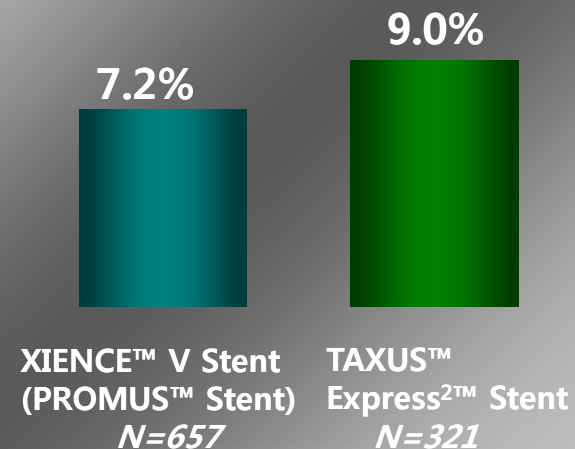
**In-Segment Late Loss
at 8 months**

$P_{\text{Non-Inferiority}} < 0.0001$
 $P_{\text{Superiority}} = 0.004$



**Target Vessel Failure
at 9 months**

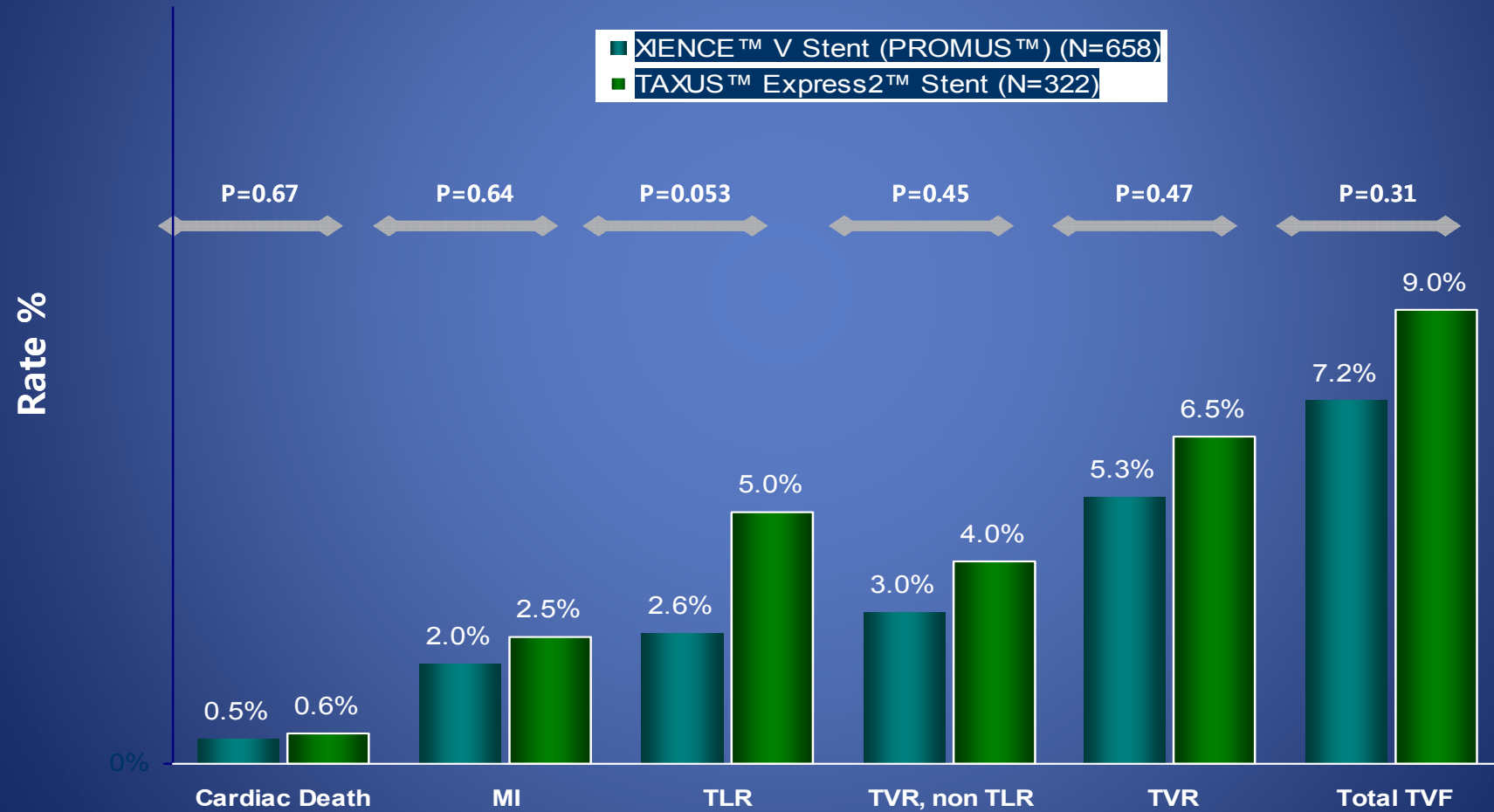
$P_{\text{Non-Inferiority}} < 0.0001$
 $P_{\text{Superiority}} = 0.31$



Target Vessel Failure:
Cardiac death, MI, Ischemia-driven TVR

SPIRIT III Clinical Trial

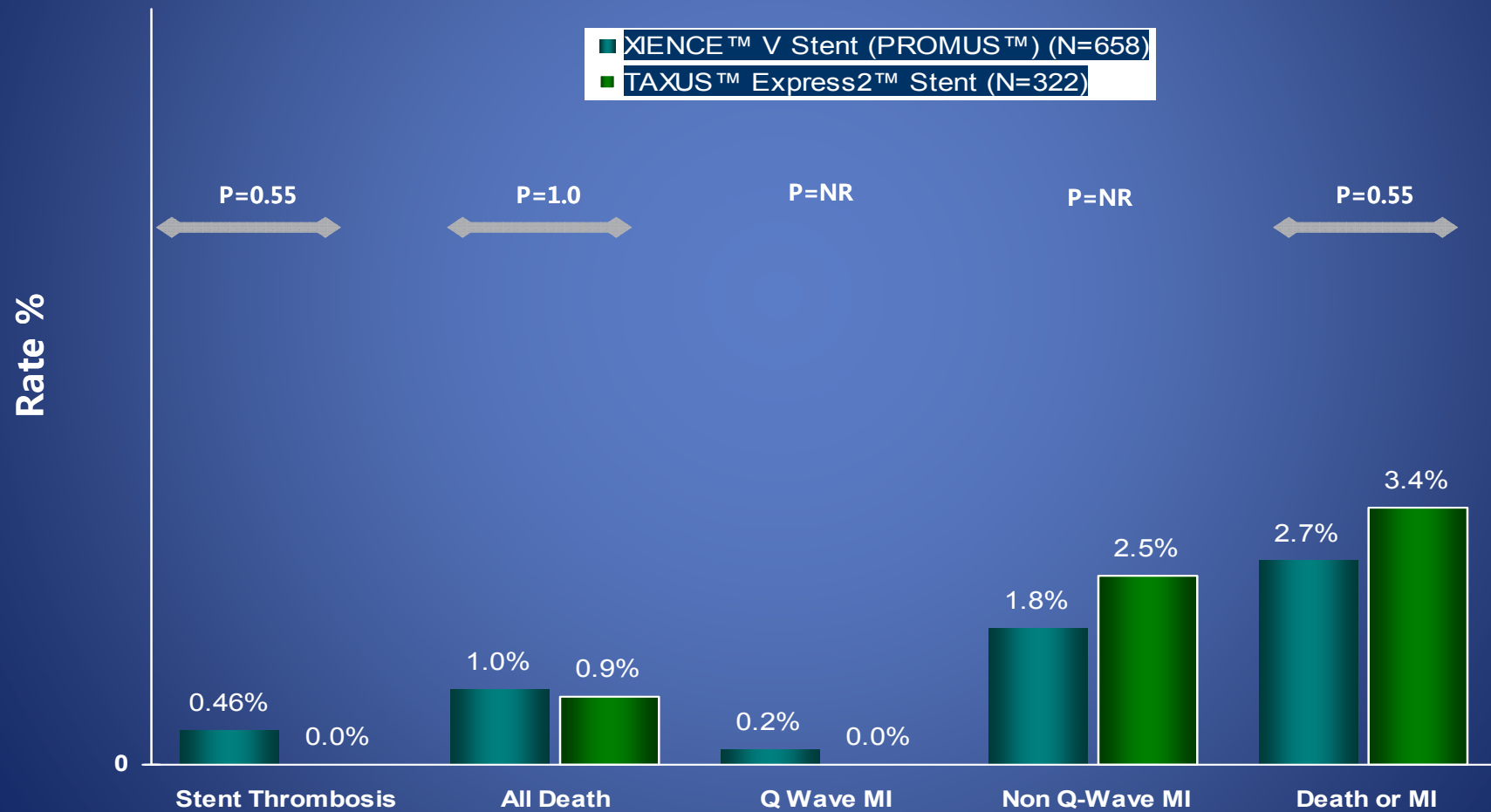
Clinical Results at 9 Months



SPIRIT III Clinical Trial

Safety at 9 Months

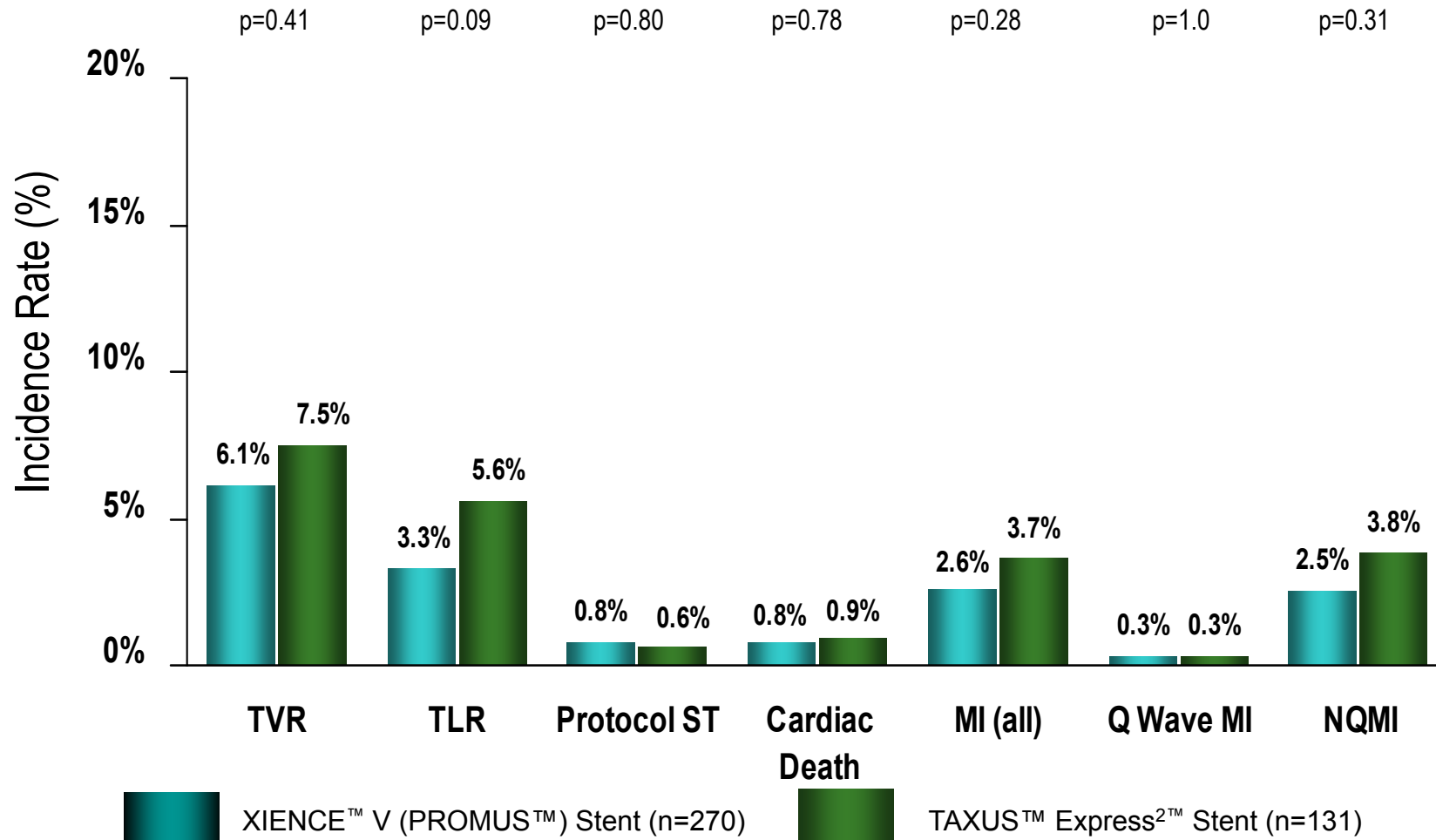
SPIRIT III reinforces the positive safety profile of
TAXUS™ Stent & PROMUS™ Stent



SPIRIT III Study

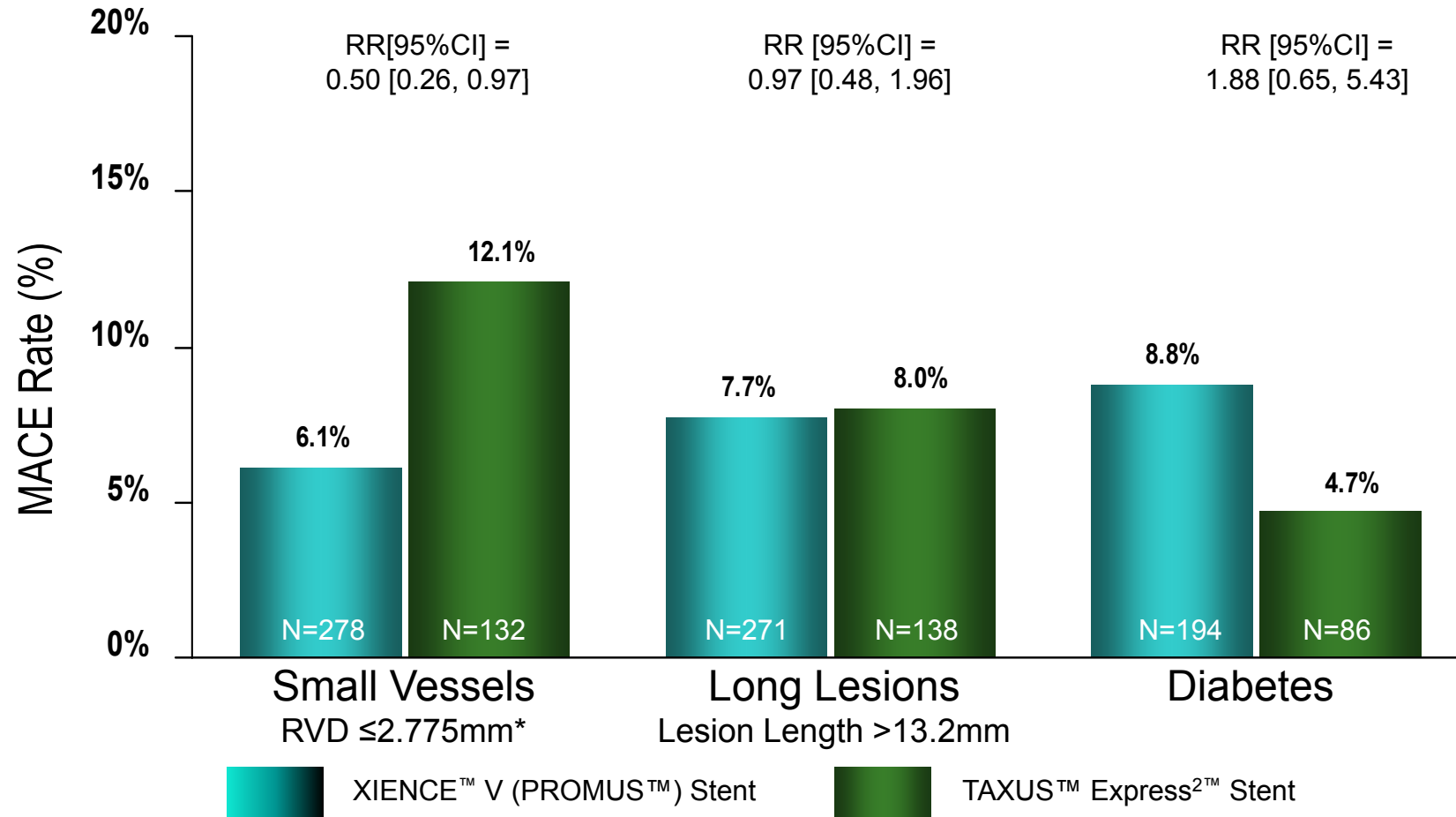
1-Year* Clinical Results

No significant differences between stents on clinical endpoints



SPIRIT III Study

1-Year MACE in High-Risk Subgroups



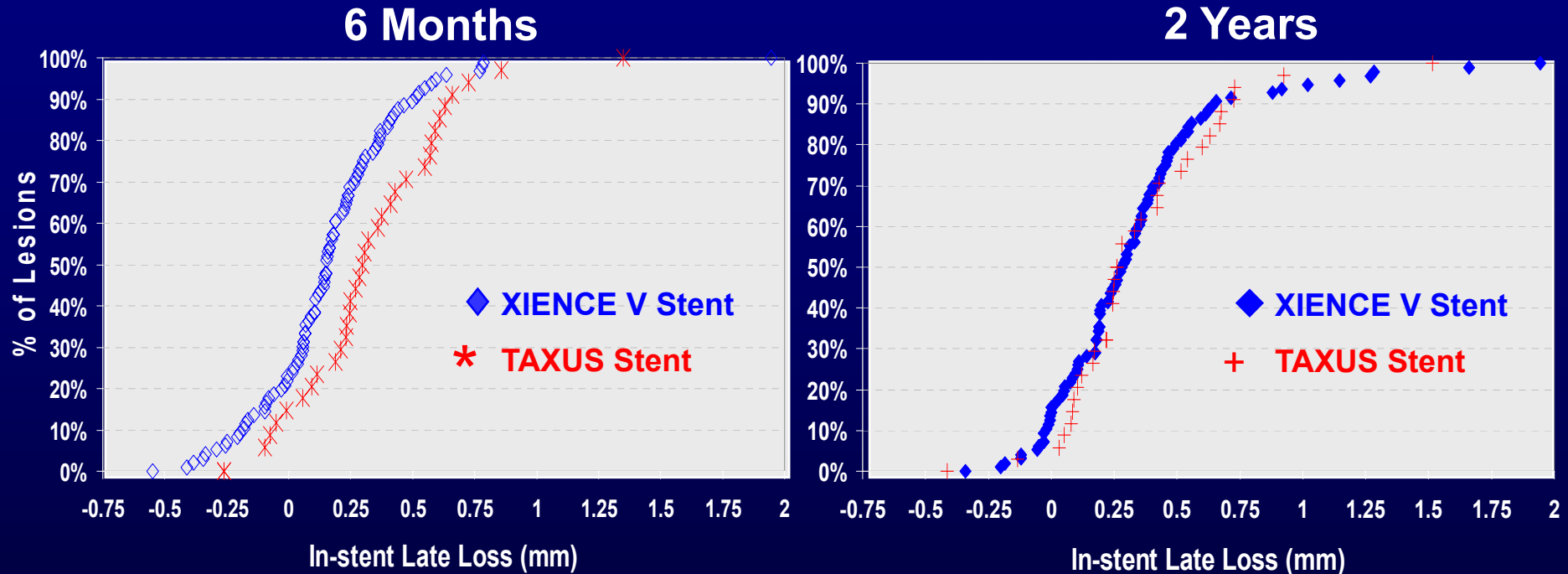
MACE = cardiac death, MI, or ischemia-driven TLR

The **SPIRIT II** Study - A Clinical Evaluation of
the XIENCE™ V Everolimus Eluting Coronary
Stent System in the Treatment of Patients With
De Novo Native Coronary Artery Lesions

Clinical, Angiographic and IVUS **2-year** results

SCAI-ACCi2 Late-Breaking Clinical Trials III: DES

In-stent Late Loss in Patients with Serial 6-Month and 2-Year Angio FU



XIENCE^M V Stent: 0.17 ± 0.32 (nL=97)

TAXUS Stent: 0.33 ± 0.32 (nL=35)

P=0.0037

XIENCE V Stent: 0.33 ± 0.37 (nL=97)

TAXUS Stent: 0.34 ± 0.34 (nL=35)

P=0.6026

In this serial analysis, for patients having TLR, values of loss and neo-intimal hyperplasia observed prior to 6-month or 2-year FU were imputed at 6 months and 2 years respectively

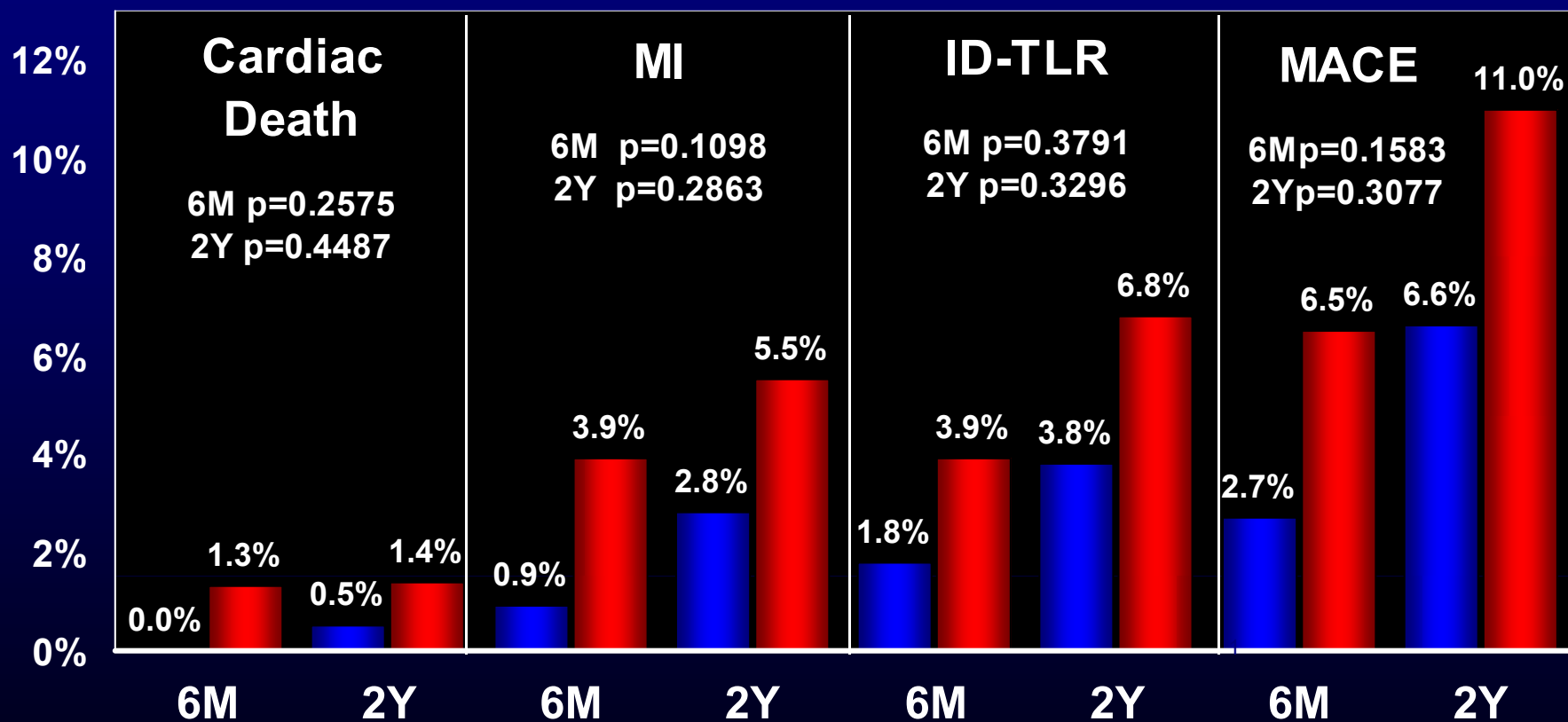
CAUTION: XIENCETM V is an Investigational device. Limited by Federal (U.S.) law to investigational use only.
TAXUS[®] Paclitaxel-eluting Coronary Stent System is a registered trademark of Boston Scientific or its affiliates.

Serruys PW., ACC LBCT Oral Presentation; 2008.

6-Month (6M) and 2-Year (2Y) Clinical Results

■ XIENCE™ V

■ TAXUS®



CAUTION: XIENCE™ V is an Investigational device. Limited by Federal (U.S.) law to investigational use only.
 TAXUS® Paclitaxel-eluting Coronary Stent System is a registered trademark of Boston Scientific or its affiliates.

Serruys PW., ACC LBCT Oral Presentation; 2008.

ARC Stent Thrombosis

Definite and Probable	XIENCE™ V 223 patients	TAXUS® 77 patients
Acute stent thrombosis (%)	0.0	0.0
Sub-acute stent thrombosis (%)	0.0	1.3
	220 patients	77 patients
Late stent thrombosis (%)	0.0	1.3
	211 patients	73 patients
Very late stent thrombosis (%)	0.9	0.0
Total stent thrombosis (%)	0.9	1.4

Acute: 0 to 24 hours after stent implantation

Late: >30 days to 1 year after stent implantation

Subacute: >24 hours to 30 days after stent implantation

Very late: >1 year after stent implantation

p=NS

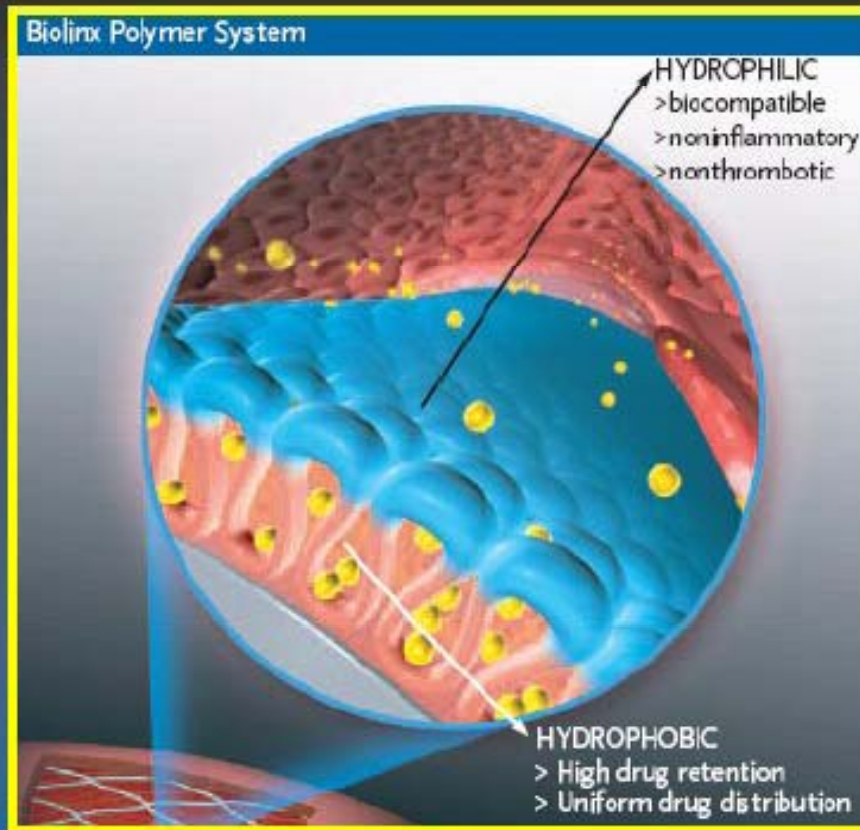
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Serruys PW., ACC LBCT Oral Presentation; 2008.

Endeavor Resolute

BioLinx Polymer



Components of a safe polymer:

- Mimics the body's chemistry
- Allows reliable drug elution
- Compatible with stent delivery

Biocompatible BioLinx polymer system design:

- Non-inflammatory and non-thrombotic
- Rapid and functional endothelial healing

A biostable polymer that applies the basics of membrane structure will provide sustained drug elution over time while maintaining biocompatibility

Angiographic Results

9 Month Cohort

n=96

In-stent

In-segment

Pre-procedure RVD (mm)

2.79 ± 0.40

Lesion Length (mm)

15.87 ± 6.51

MLD (mm) **pre**

0.82 ± 0.35

post

2.74 ± 0.41

2.33 ± 0.44

Acute Gain

1.91 ± 0.47

1.51 ± 0.50

9 mo f/u MLD (mm)

2.51 ± 0.48

2.21 ± 0.45

Late Loss (mm)

0.22 ± 0.27

0.12 ± 0.27

Late Loss Index

0.12 ± 0.16

0.08 ± 0.21

9 mo f/u % DS

10.13 ± 12.63

21.08 ± 10.62

ABR n (%)

1 (1%)

2 (2.1%)

RESOLUTE

Clinical Events to 12 months

	9 months n=130 patients n=131 lesions	9-12 months n=129, 130 lesions	12 months n=129 patients, 130 lesions
Death (all) - % (#)	1.5 (2)	0.8 (1)	2.3 (3)
Cardiac	0.8 (1)	0	0.8 (1)
MI (all) - % (#)	5.4 (7)	0	5.4 (7)
Q Wave	0	0	0
Non Q wave	5.4 (7)	0	5.4 (7)
Death (cardiac) + MI (all) - % (#)	6.2 (8)	0	6.2 (8)
Stent Thrombosis (all) - % ()	0	0	0 (0)
0-30 days	0	0	0 (0)
31-360 days	0	0	0 (0)
TLR - % (#)	0	0.8 (1)	0.8 (1)
TVR (non-TL) - % (#)	0	0	0.0
TVR - % (#)	0	0	0.8 (1)
MACE - % (#)	6.9 (9)	1.6 (2)	8.5 (11)
TVF - % (#)	6.2 (8)	0.8 (1)	7.0 (9)

Nobori DES Components



NOBORI™



S-Stent™ (stainless steel)

- Quadrature-link design
- Excellent flexibility and scaffolding
- Reduced turbulence and wall injury

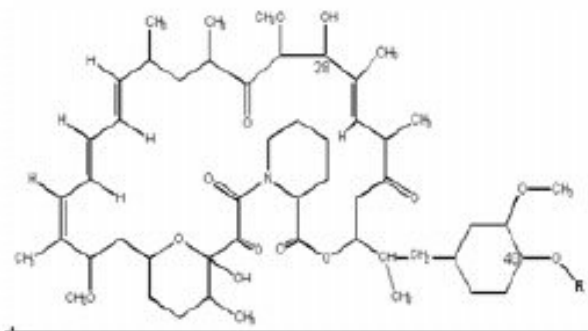
Drug and Polymer Coating Layer

Coating Only abluminal

Stent

PLA bioabsorbable Polymer

- High drug-carrying capacity
- Controlled biodegradability
- Simultaneous polymer degradation and release of drug into tissue
- Abluminal Coating



Biolimus A9™ (rapamycin derivative)

- A potent new “Limus” designed for stent applications
- Powerful immunosuppressant, anti-inflammatory compound
- Prevents smooth muscle cell proliferation
- Highly lipophilic; elutes fast from stent

MACE Rate up to 9 Months



NOBORI™

Hierarchical	Nobori™ 85 Patients	Taxus® 35 Patients
Cardiac and Non-Cardiac Death (%)	0	0
<u>Myocardial Infarction (I%)</u>	4.7	8.6
• Q-Wave	0.0	0.0
• Non-Q-Wave	4.7	8.6
– CK>2UNL<3UNL	4.7	8.6
– CK>3UNL	0.0	0.0
<u>Clinically and Non-Clinically Driven</u>		
• <u>Target vessel revascularization (%)</u>	7.0	11.4
• CABG	0.0	2.9
• PCI	7.0	8.6
TOTAL MACE	11.7	20.0
Stent Thrombosis (%)	0	0

Clinically Driven Revascularizations up to 9 Months



NOBORI™

	Nobori™ 85 Patients	Taxus® 35 Patients
TLR - Clinically Driven %	0	2.9*
TVR – non-TLR - Clinically Driven %	1.2	2.9
Total Clinically Driven TVR %	1.2	5.7
TOTAL MACE with Clinically Driven Revascularizations %	5.9	14.3

* Emergent CABG during procedure

DES in Korea

Available

- Sirolimus-eluting (**Cypher**[®])
- Paclitaxel-eluting (**Taxus**[®])
- Zotarolimus-eluting (**Endeavor**[®])
- **Pico^{Elite}** Paclitaxel-eluting
- **Coroflex[®] Please** Paclitaxel-releasing

Endeavour[™]
Zotarolimus-coated stent

YUKON[®] Choice^{DES}
Drug Eluting Stent



Axxion[™]
Medikamentenbeschichteter Koronarstent

Will Be Available

- Everolimus-eluting (**Xience**[®]/**Promus**[®])
- Zotarolimus-eluting (**Endeavor Resolute**[®])
- Biolimus-eluting (**Nobori**[®], Terumo)
- Conor[®] Sirolimus-eluting
- Bioabsorbable DESs
-
-

Paclitaxelfreisetzendes koronares Stentsystem



Janus - A unique polymer-free Drug Eluting Stent