

# SORT OUT X

Comparison of Combo Dual Therapy Sirolimus-eluting stent (DTS) to ultrathin strut **Orsiro**<sup>®</sup> Biodegradable Polymer Sirolimus-eluting stent (BP-SES) in an all-comers population

## Conclusions

- Combo failed to show non-inferiority to Orsiro with respect to Target Lesion Failure (TLF) at 12 months (6.3% vs. 3.7%,  $p = 0.00086$ ).
- Target Lesion Revascularization (TLR) rate for Combo was significantly higher compared to Orsiro (3.4% vs. 1.5%,  $p = 0.0012$ ).
- Rates of Target Vessel Revascularization (TVR) and patient related endpoints were significantly higher in the Combo arm.

## Study design

Large scale, all-comers, multicentre, single-blind, two-arm, 1:1 randomized, non-inferiority trial comparing Combo to Orsiro stent in patients undergoing PCI.

## Endpoints

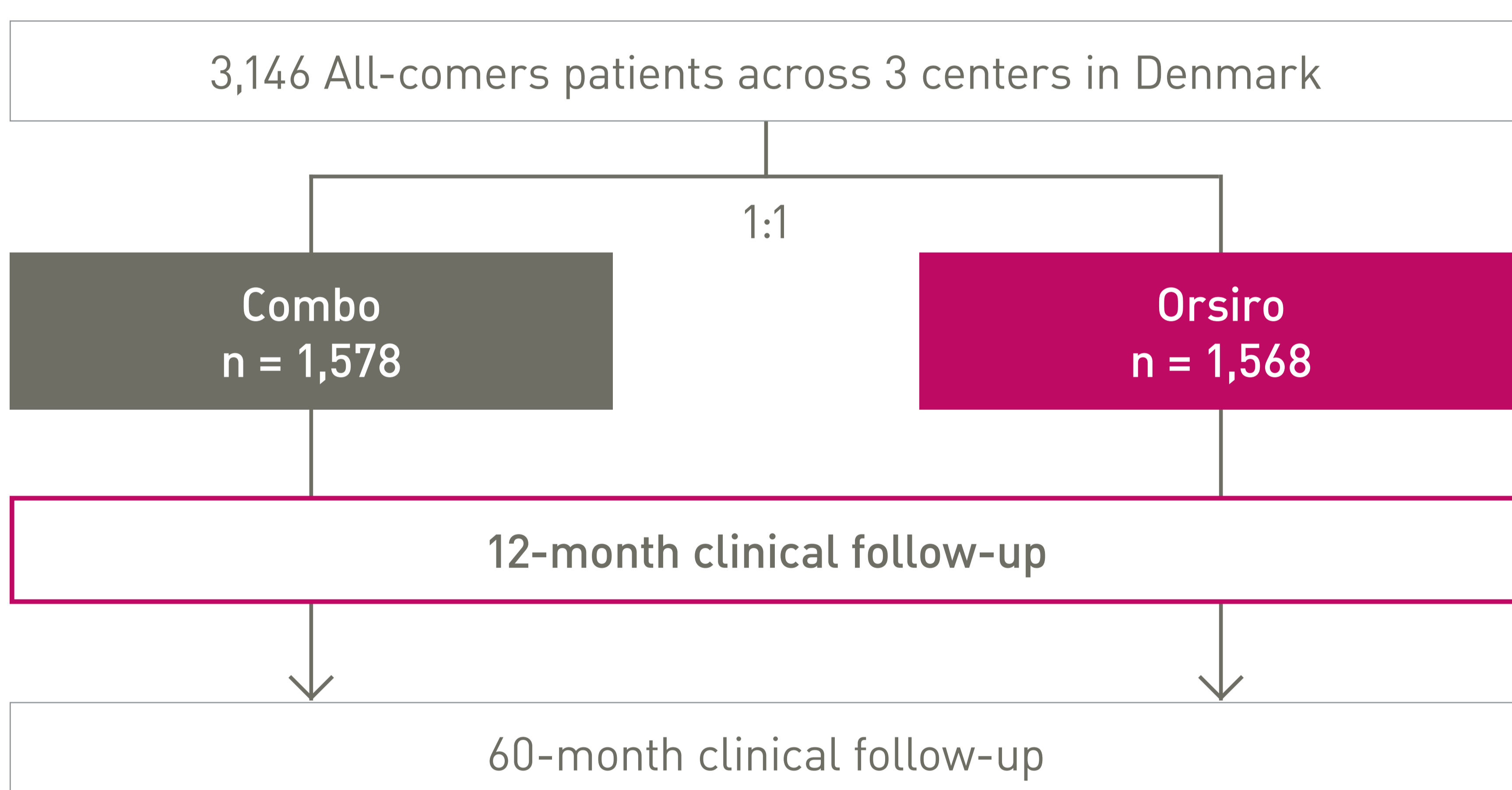
### Primary endpoint

Target Lesion Failure (TLF) at 12 months, defined as the composite of:

- Cardiac Death
- Target vessel Myocardial Infarction (TV-MI)
- Target Lesion Revascularization (TLR)

### Secondary endpoints

- Individual components of the primary endpoint
- All-cause death
- Target Vessel Revascularization (TVR)
- Stent Thrombosis (ST) (all, definite, definite/probable, probable, possible ST)
- Patient related endpoint (death, MI or any revascularization)



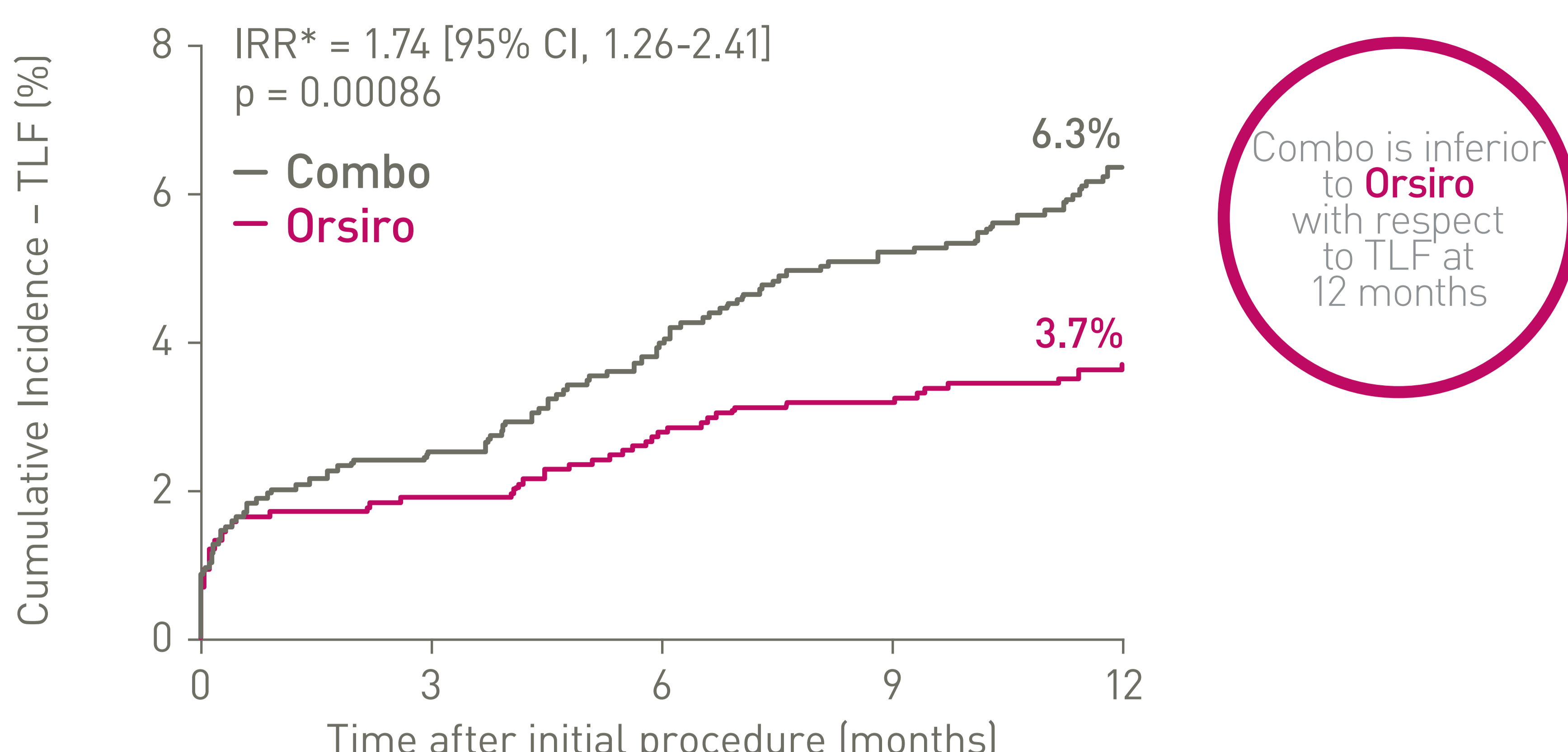
Patient characteristics <sup>1</sup>	Combo n = 1,578	Orsiro n = 1,568
Age [years]*	67.1 ± 10.7	66.7 ± 10.9
Male	76.9%	77.0%
Smoker	29.1%	30.5%
Diabetes mellitus	17.7%	17.3%
Hypertention	53.7%	56.6%
Hypercholesterolemia	50.3%	50.7%
Previous MI	15.4%	14.5%
Previous PCI	18.9%	19.7%
Previous CABG	7.1%	5.8%
Clinical indication		
STEMI	24.7%	22.6%
NSTEMI or Unstable Angina	29.6%	31.8%
Stable Angina	41.3%	41.7%

Lesion and Procedural characteristics <sup>1</sup>	Combo n = 2,008	Orsiro n = 1,982
Number of target lesions/patient		
1	74.3%	74.9%
2	20.3%	19.9%
3	4.4%	3.6%
Lesion Type		
B2	21.5%	20.3%
C	41.1%	39.5%
Bifurcation lesions	24%	22.8%
Chronic Total Occlusion	4.4%	5.2%
Lesion Length (mm)*	22.8 ± 15.6	22.8 ± 15.8
Reference vessel diameter (mm)*	3.4 ± 0.6	3.4 ± 0.6
Number of stents/patient*	1.7 ± 1.0	1.7 ± 1.1
Total stent length (mm)*	28.1 ± 18.0	28.3 ± 18.2

\* Data shown as mean ± SD

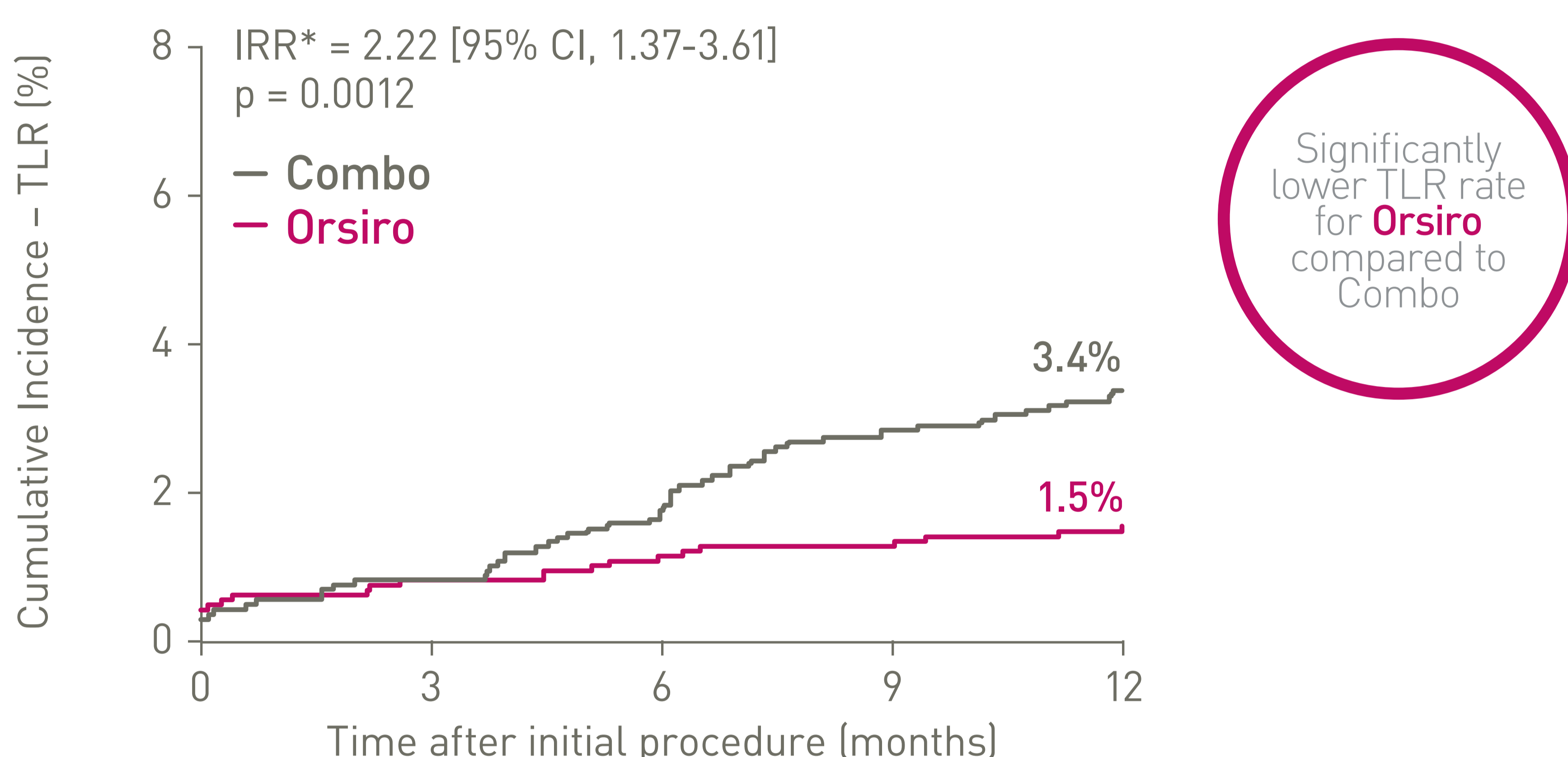


## TLF at 12 months<sup>1</sup>



\* Incidence rate ratios

## TLR at 12 months<sup>1</sup>



## Selected secondary endpoints at 12 months<sup>1</sup>

	Combo n = 1,578	Orsiro n = 1,568	p-value
Cardiac Death	1.6%	1.5%	0.78
TV-MI	2.7%	1.8%	0.10
TLR	3.4%	1.5%	<b>0.0012</b>
TVR	5.1%	2.8%	<b>0.0013</b>
Definite ST	0.5%	0.4%	0.60
Definite/probable ST	0.6%	0.4%	0.47
Patient related endpoint	14.9%	11.9%	<b>0.015</b>

## Subgroup analysis - TLF at 12 months<sup>1</sup>

	Combo	Orsiro	Rate Ratio (95% BCI**)	Favors Combo	Favors Orsiro	p for interaction
ACS	no	43 (6.0%)	23 (3.2%)	1.88 (1.13-3.14)		0.69
	yes	57 (6.7%)	35 (4.1%)	1.65 (1.08-2.52)		
Diabetes mellitus	no	74 (5.7%)	45 (3.5%)	1.67 (1.15-2.42)		0.65
	yes	26 (9.3%)	13 (4.8%)	1.99 (1.02-3.90)		
Lesion Type C	no	48 (6.7%)	37 (5.3%)	1.29 (0.83-1.98)		0.044
	yes	52 (6.0%)	21 (2.4%)	2.54 (1.52-4.22)		
MVD	no	75 (5.9%)	45 (3.5%)	1.69 (1.17-2.45)		0.78
	yes	25 (8.2%)	13 (4.5%)	1.90 (0.96-3.77)		
STEMI	no	82 (6.9%)	48 (4.0%)	1.77 (1.24-2.54)		0.88
	yes	18 (4.6%)	10 (2.8%)	1.66 (0.76-3.62)		

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## Principal investigator

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1. Jakobsen L et al. Randomized clinical comparison of the dual therapy CD34 antibody-covered sirolimus-eluting combo stent with the sirolimus-eluting orsiro stent in patients treated with percutaneous coronary intervention. The SORT OUT X trial. Circulation [2021].

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