

10-Year Survival after Bypass Surgery versus Drug-Eluting Stents: Preliminary Results of the Randomized **SYNTAX** Extended Survival study **“SYNTAXES”**

Daniel J.F.M. Thuijs, Friedrich W. Mohr, Patrick W. Serruys, Michael J. Mack,
David R. Holmes Jr., Marie-Claude Morice, Piroze Davierwala, Thilo Noack, Milan Milojevic,
Nick Curzen, A. Pieter Kappetein, Stuart J. Head,
*SYNTAXES collaborators

Conflict of Interest

I, (**Daniel J.F.M. Thuijs**) **DO NOT** have a financial interest/arrangement or affiliation with one or more organizations that could be perceived as a real or apparent conflict of interest in the context of the subject of this presentation.

62 EU Sites



+



23 US Sites

De novo Three Vessel or Left Main Coronary Disease

Heart Team (Surgeon & Interventional Cardiologist) Review
Randomized for **CABG** or **PCI** with paclitaxel (TAXUS) eluting stent

CABG =
897 (100%)

Study start

PCI =
903 (100%)

CABG =
849 (94.6%)

1 Year Follow-up

PCI =
891 (98.7%)

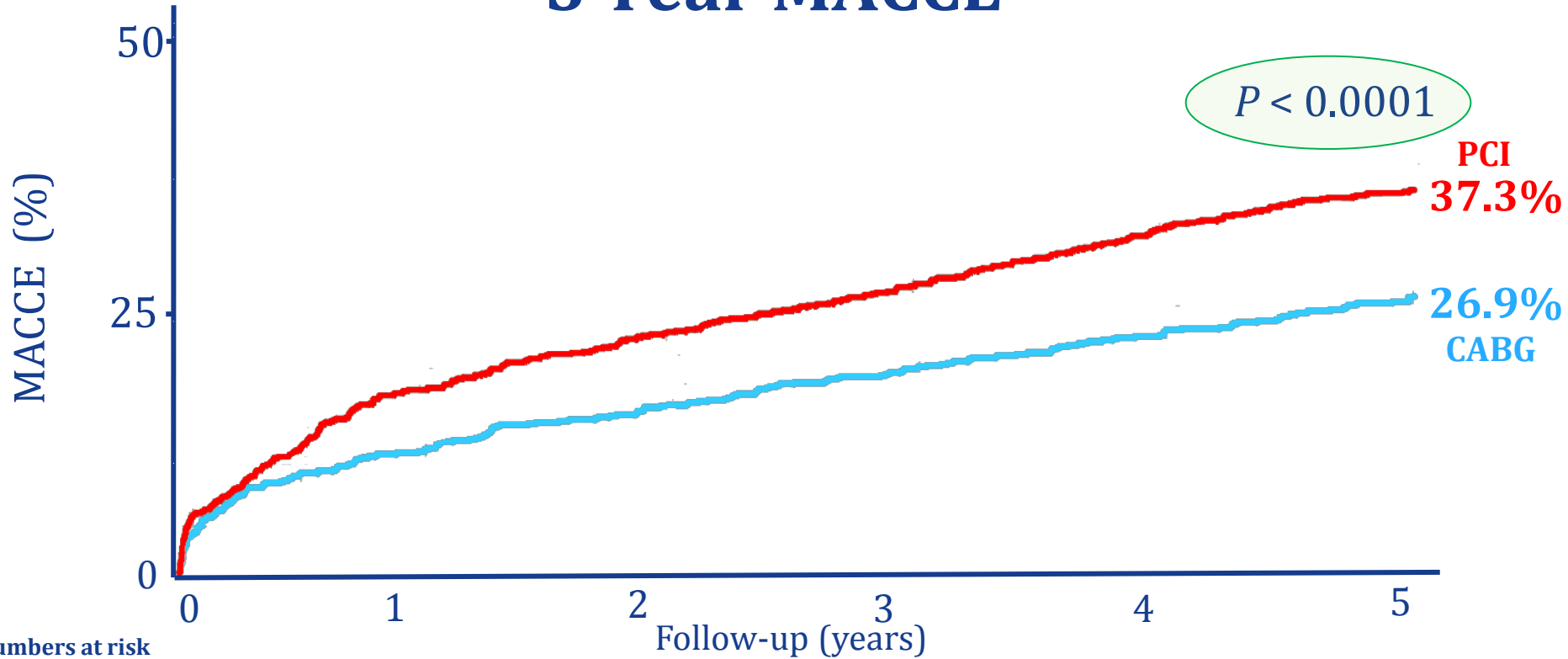
CABG =
805 (89.7%)

5 Year Follow-up

PCI =
871 (96.5%)

10 Year Follow-up
Goal: 10-Year Survival after CABG vs. PCI-TAXUS

5 Year MACCE



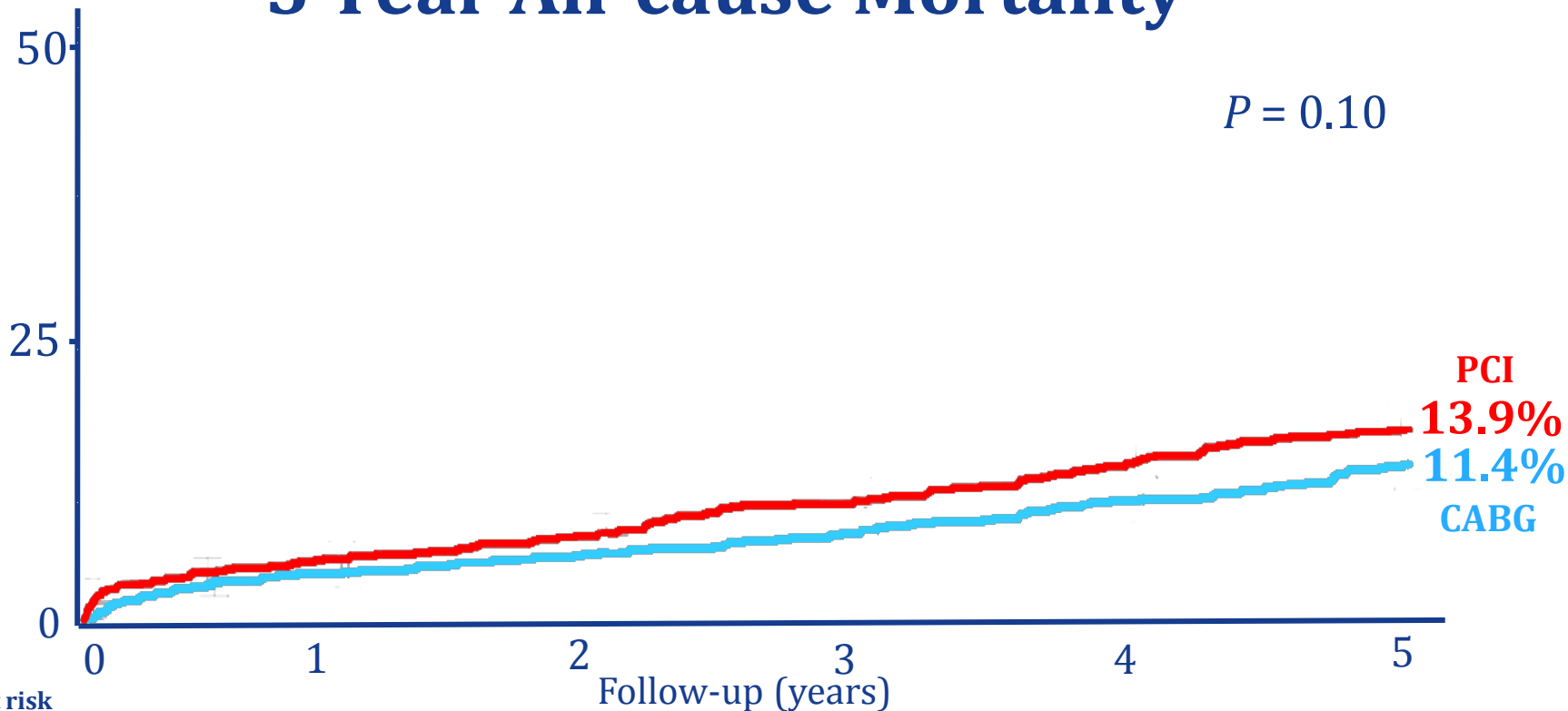
Numbers at risk

	0	1	2	3	4	5
CABG	897	751	739	694	654	512
PCI	903	747	733	681	634	483

5 Year All-cause Mortality

$P = 0.10$

All-Cause Mortality (%)



Numbers at risk

	0	1	2	3	4	5
CABG	897	820	810	788	761	606
PCI	903	859	853	832	803	537

SYNTAXES Endpoint:

10 Year All-Cause Mortality

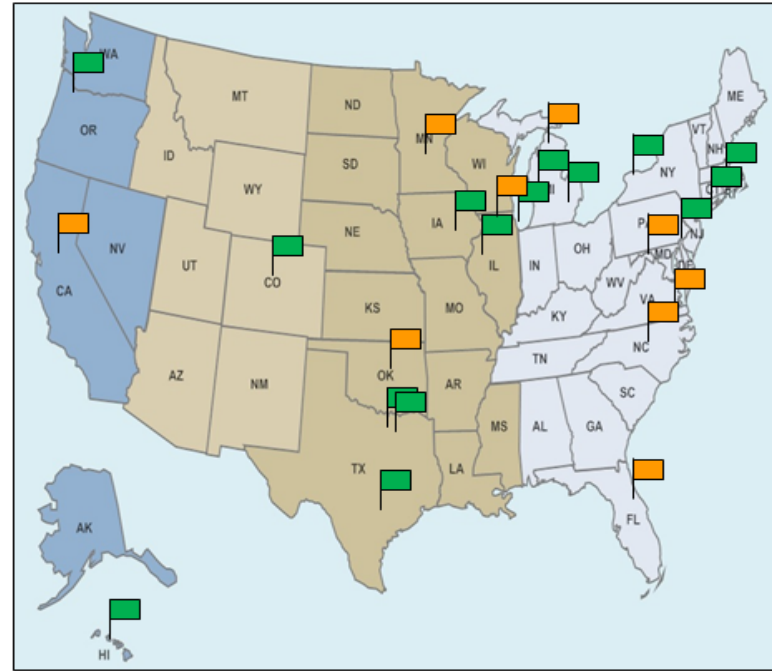
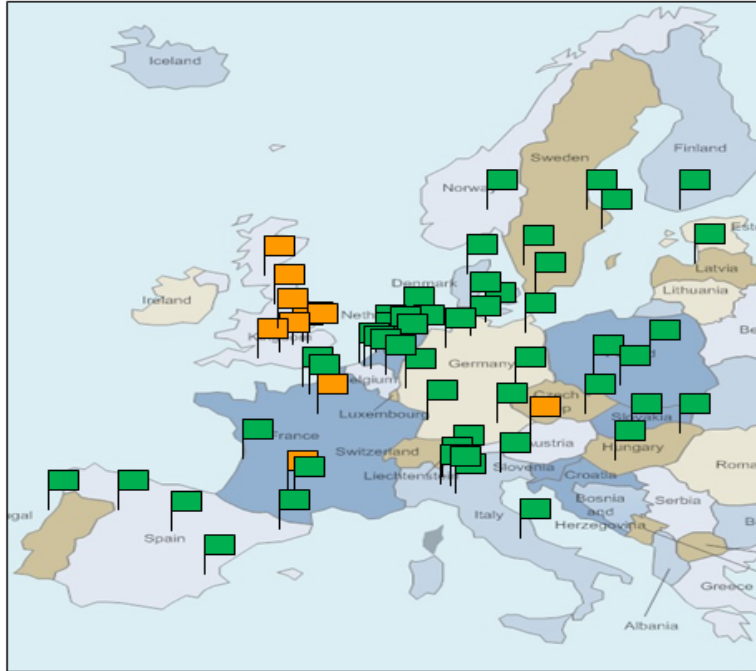
SYNTAXES – Sites & Data



: Data RECEIVED (n=1301)



: Data NOT yet RECEIVED (n=499)



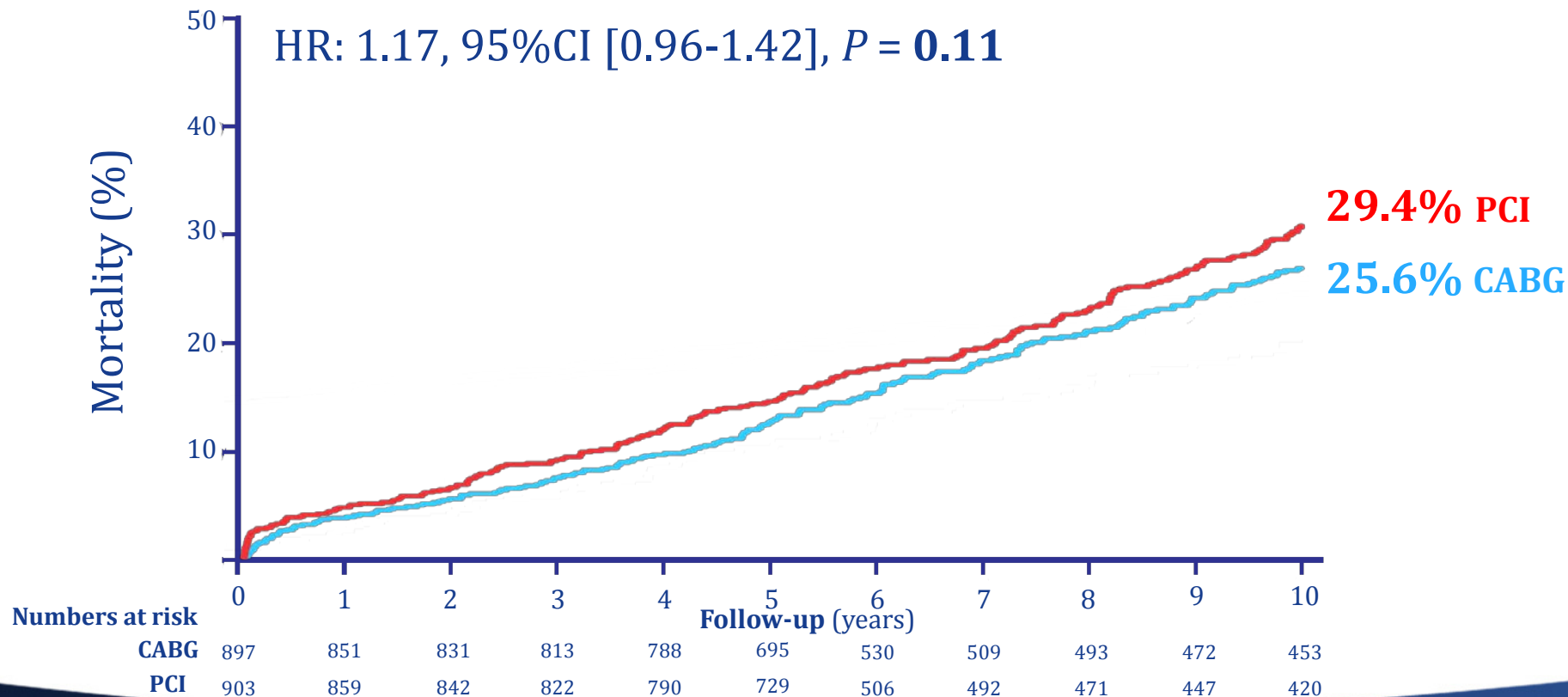
Completeness of 10-year follow-up = 94%

No Differences in Baseline Characteristics

RECEIVED vs NOT RECEIVED 10 YEAR data

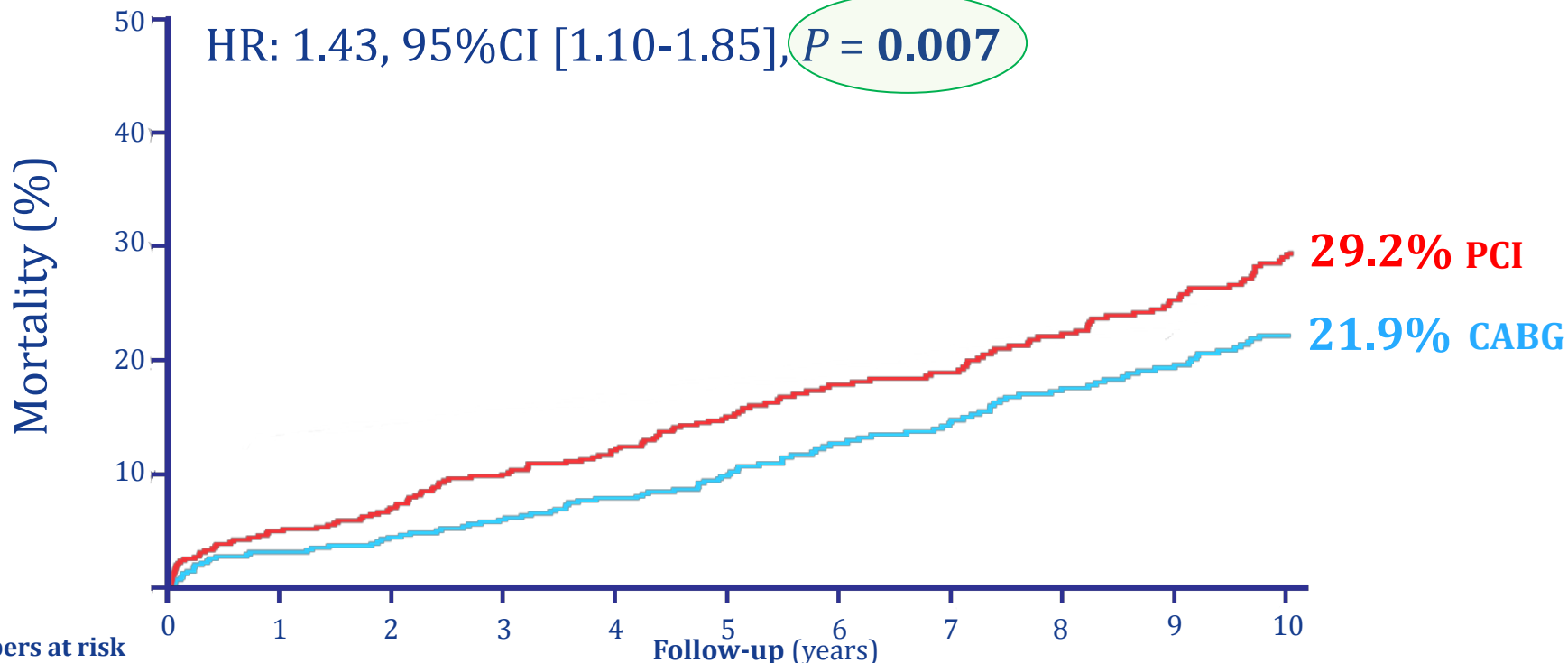
Characteristics	Data received (n=1301) %	Data NOT received (n=499) %	P-value
Age - years	64.9 ± 9.8	65.7 ± 9.8	0.12
Diabetes - medically treated	26.5	21.4	0.26
Insulin	11.2	7.8	0.30
Previous MI	32.2	33.3	0.42
Previous Stroke	4.1	5.0	0.27
Previous TIA	4.4	5.4	0.65
Angina			
Stable	57.1	56.9	0.94
Unstable	27.9	30.1	0.36
Three Vessel only	62.7	55.9	0.03
Left Main, any	37.3	44.1	0.08
Logistic EuroSCORE (mean)	3.8 ± 3.7	3.8 ± 3.7	0.93
SYNTAX score (mean)	28.7 ± 11.5	28.8 ± 11.3	0.82

SYNTAXES 10 Year All-Cause Mortality



Three Vessel (3VD)

HR: 1.43, 95%CI [1.10-1.85], $P = 0.007$

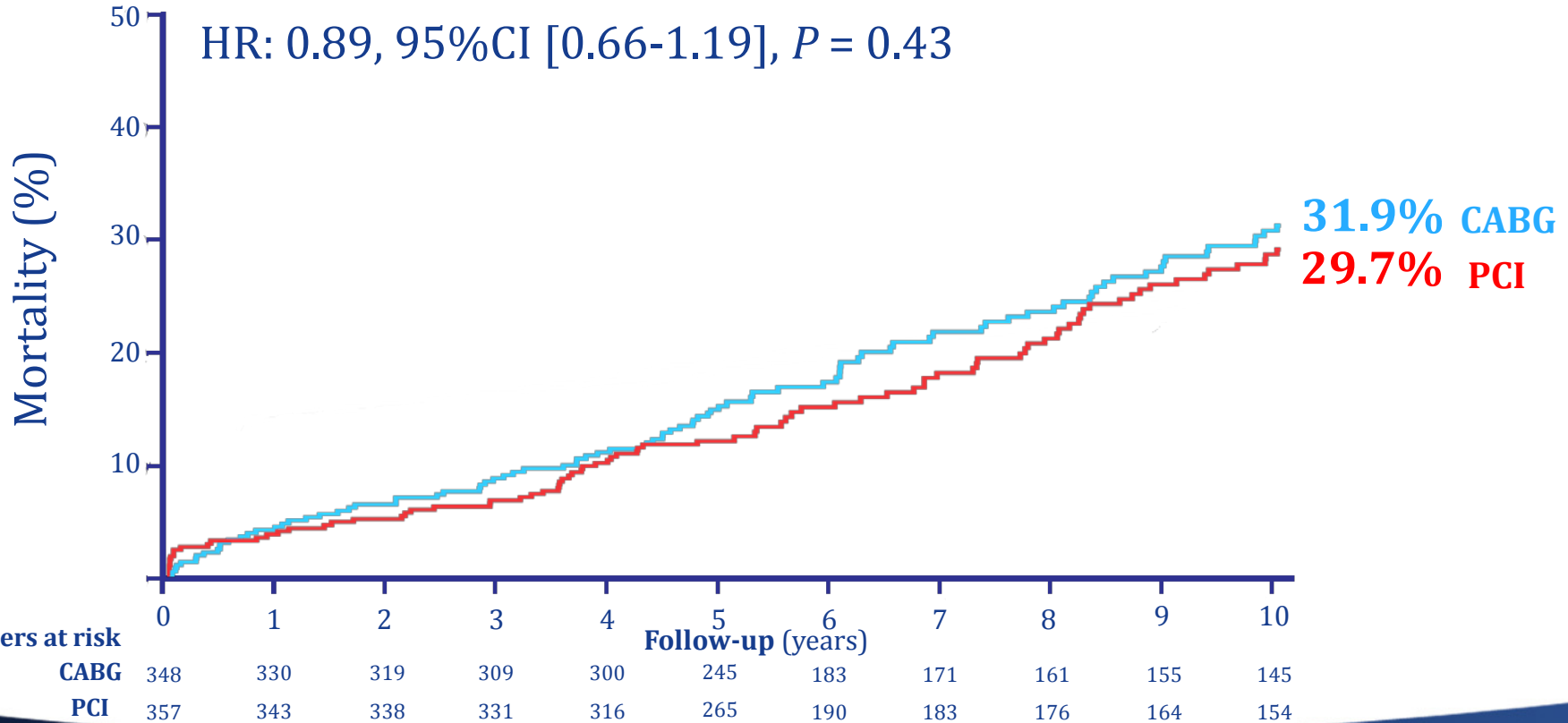


Numbers at risk

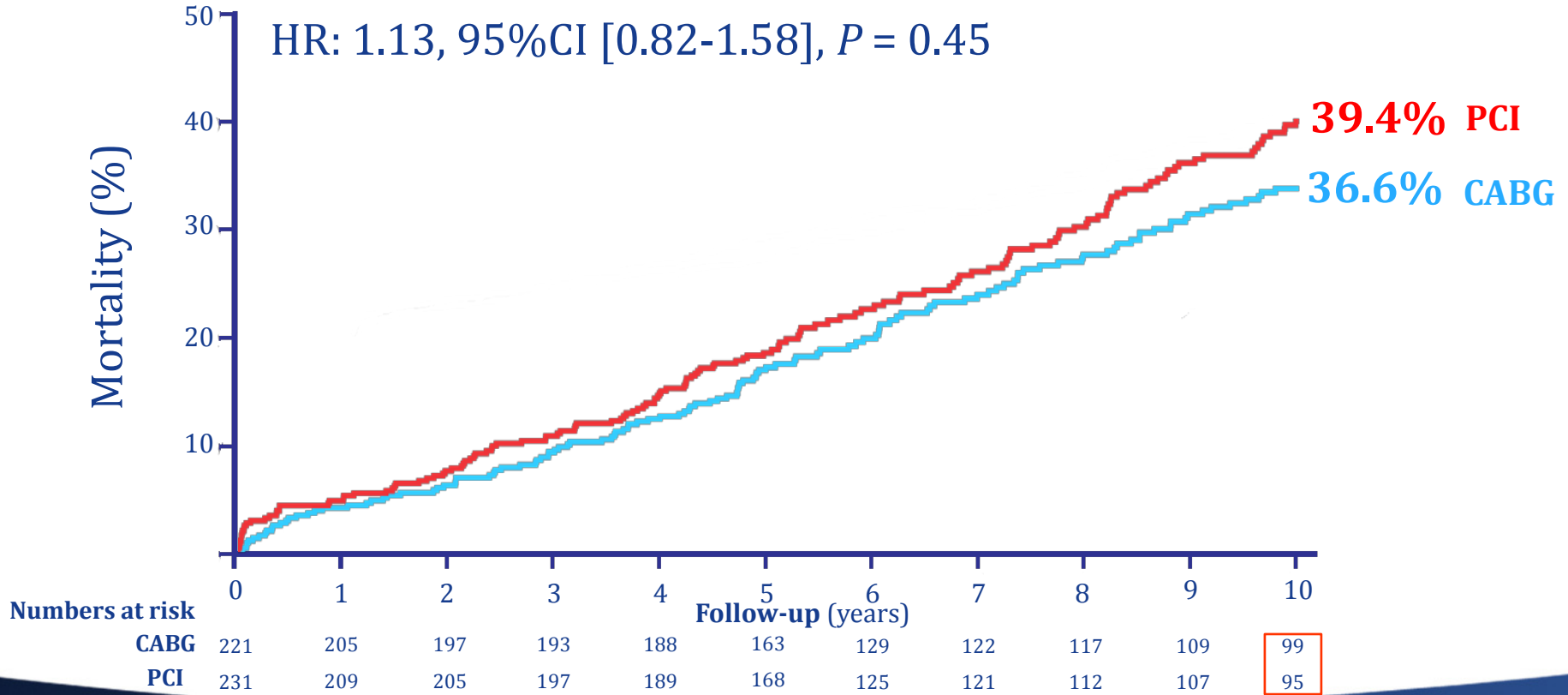
	0	1	2	3	4	5	6	7	8	9	10
CABG	549	520	510	499	486	428	344	338	327	317	306
PCI	546	516	504	488	474	413	316	309	295	286	264

Left Main (LM)

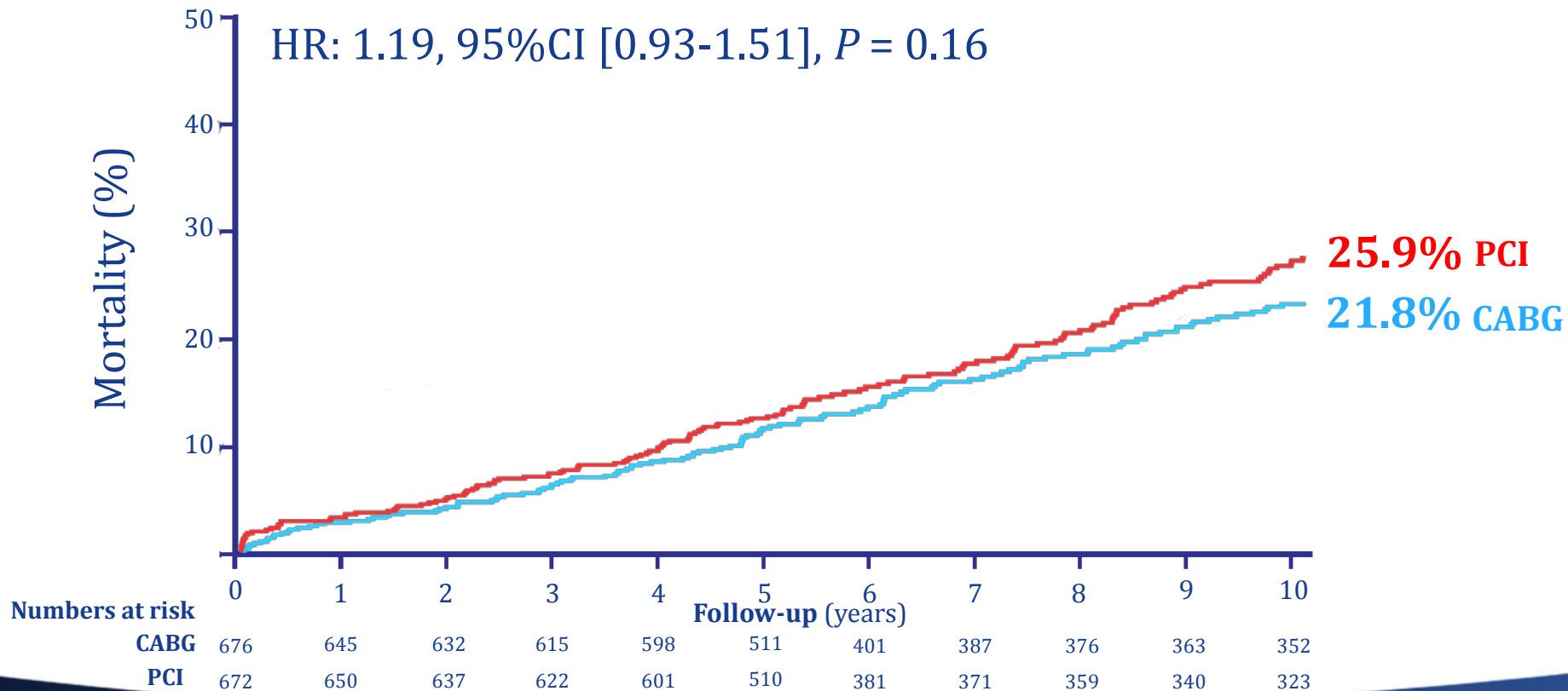
HR: 0.89, 95%CI [0.66-1.19], $P = 0.43$



Diabetes



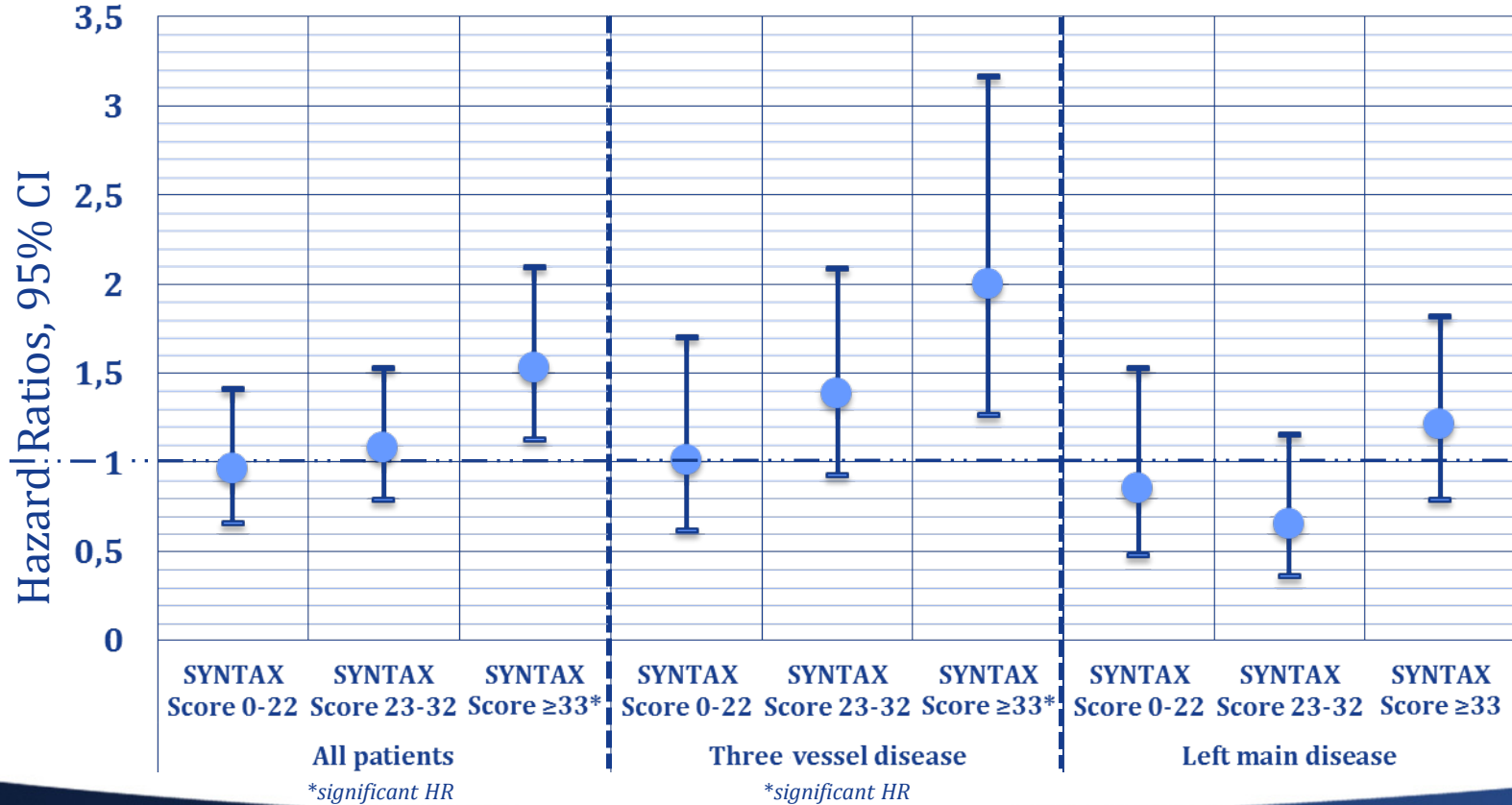
No Diabetes



SYNTAX scores – 10 Year All-Cause Mortality

Favors PCI

Favors CABG



Take Home Message

Based on 72% of the SYNTAX 10 Year data (n=1301):

- 1) No survival difference between CABG or PCI at 10 years
- 2) **Lower mortality** with **CABG** vs PCI in **Three Vessel** disease
- 3) **Comparable survival** with CABG vs PCI in **Left Main** disease
- 4) Remaining 28% (n=499) survival data is currently being collected
- 5) The SYNTAXES study anticipates to be completed in 2018

Thank you and thanks to all SYNTAXES collaborators

*SYNTAXES collaborators:

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