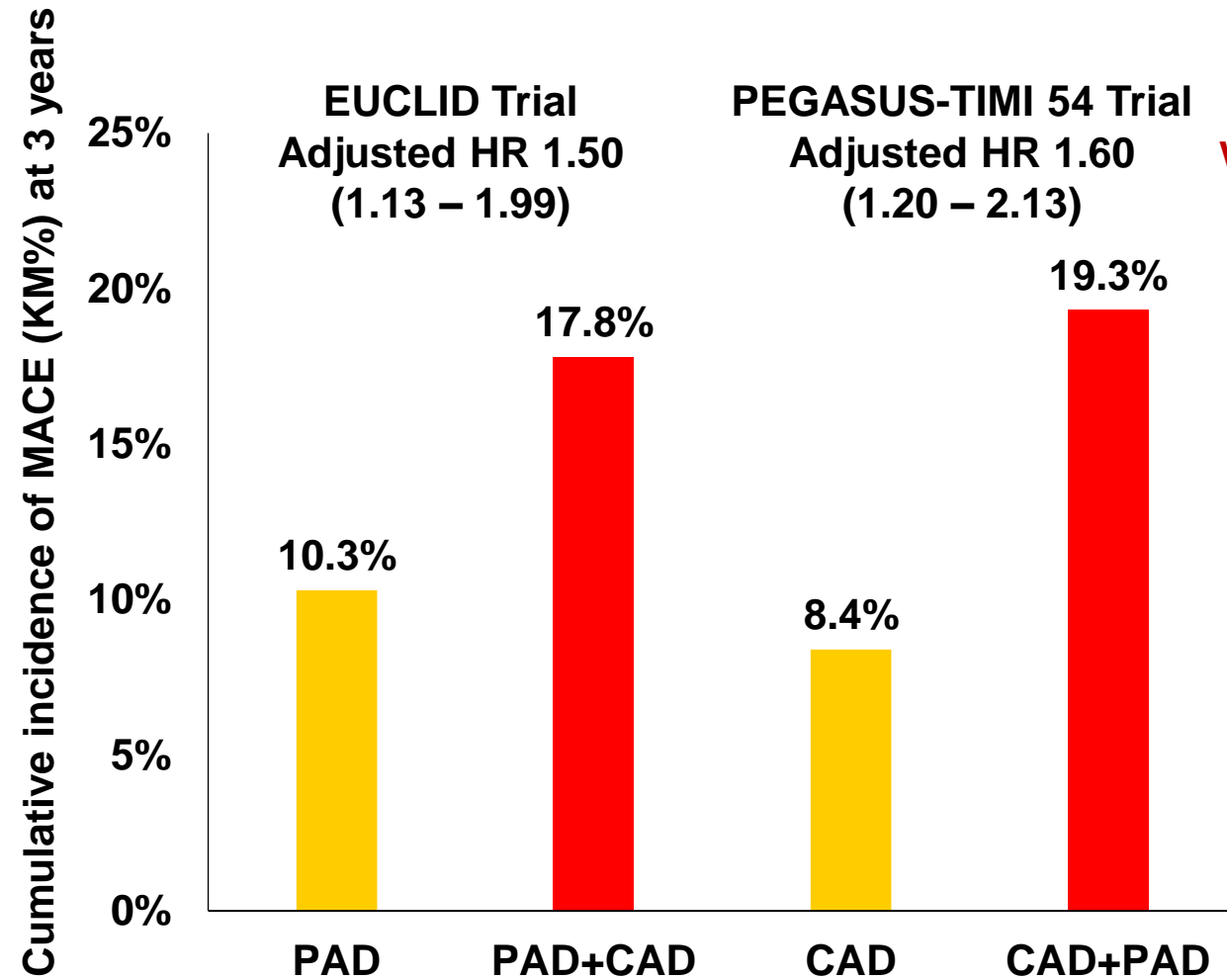


Impact of Low-dose Rivaroxaban plus Aspirin on Myocardial Infarction in Patients with Peripheral Artery Disease with and without Concomitant Coronary Artery Disease: Insights from VOYAGER PAD

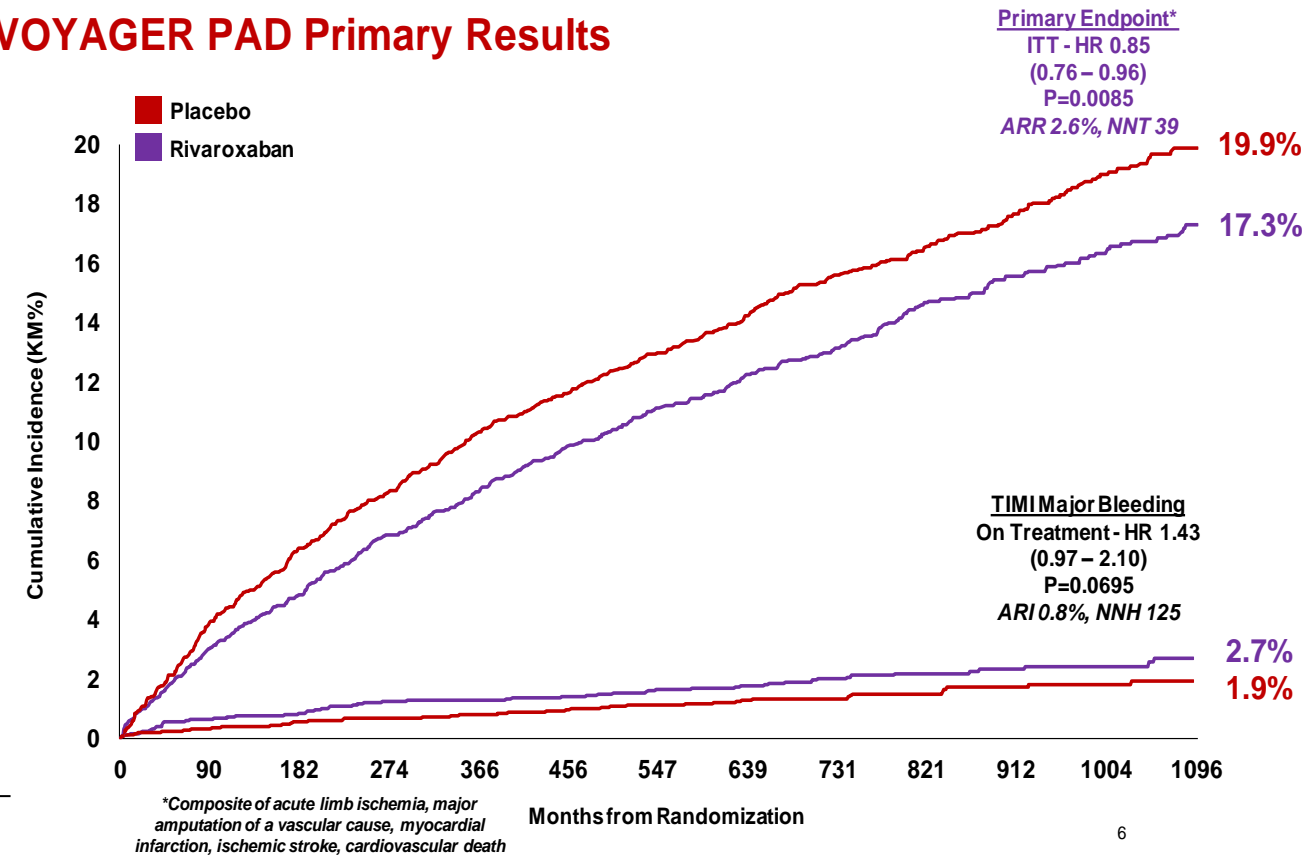
Mario Enrico Canonico, MD, PhD, Justin T. Morrison, MD, Sonia S. Anand, MD, Manesh R. Patel, MD, Eike Sebastian Debus, MD, PhD, Mark R. Nehler, MD, Connie N. Hess, MD, MHS, Judith Hsia, MD, Warren H. Capell, MD, Eva Muehlhofer, MD, Lloyd P. Haskell, MD, MBA, Scott D. Berkowitz, MD, Rupert M. Bauersachs MD, Marc P. Bonaca, MD, MPH on behalf of the VOYAGER PAD investigators

BACKGROUND

Risk of MACE and VOYAGER-PAD Main Results



VOYAGER PAD Primary Results



Bonaca MP. Vasc Med. 2018 Dec;23(6):531-533.

Bonaca MP, et al. N Engl J Med. 2020 May 21;382(21):1994-2004.

AIM & METHODS

In PAD patients undergoing lower extremity revascularization (LER) for ischemic symptoms randomized to rivaroxaban 2.5 mg twice daily plus low dose aspirin versus aspirin alone:

- To evaluate whether coronary artery disease (CAD) is associated with increased risk of major adverse cardiovascular events (MACE) compared to no CAD**
- To evaluate whether the safety and efficacy of rivaroxaban after LER is consistent in patients with and without CAD particularly on MACE and subtype of Myocardial Infarction (MI)**

The presence of known CAD was reported by investigators at baseline and was defined as any known history including prior MI, coronary revascularization, other stable CAD. MI was defined according to the Universal Definition.

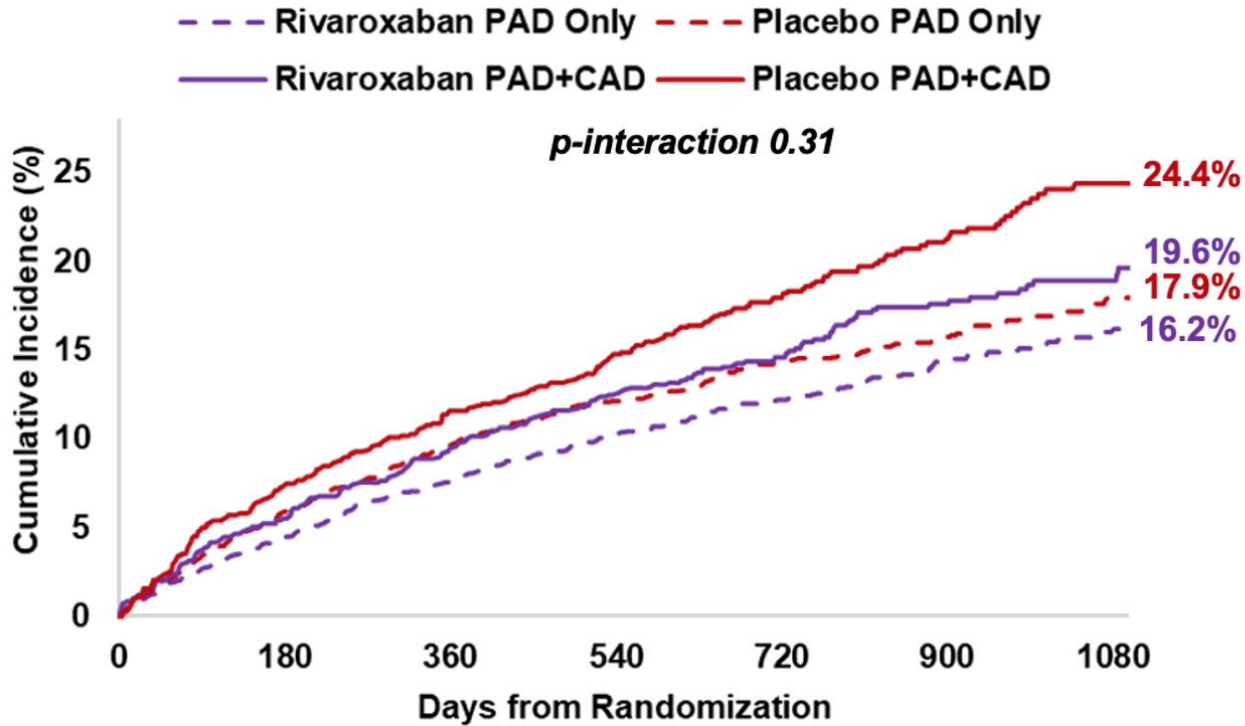
RESULTS

Baseline Characteristics

<i>Baseline Characteristics</i>	PAD+CAD N=2083	PAD Only N=4480	P-value	<i>Baseline Characteristics</i>	PAD+CAD N=2083	PAD Only N=4480	P-value
Median age (IQR) – yr	68 (62 – 74)	66 (60 – 72)	<0.0001	Qualifying revascularization			0.0155
Female (%)	22	28	< 0.0001	Surgical (%)	31	34	
White Caucasian (%)	79	82	0.0111	Endovascular (%)	69	66	
Hypertension (%)	90	77	<0.0001	Reason for revascularization			0.0185
Diabetes Mellitus (type 2) (%)	50	33	<0.0001	Claudication (%)	96	95	
Hyperlipidemia (%)	73	54	<0.0001	Critical limb ischemia (%)	22	24	
Current smoking (%)	27	38	<0.0001	PAD Characteristics			
eGFR < 60 ml/min.1.73m ² (%)	26	18	<0.0001	Prior LER (%)	43	32	<0.0001
Prior MI (%)	34	0	<0.0001	ABI (median, IQR)	0.58 (0.44 – 0.69)	0.54 (0.41 – 0.66)	<0.0001
Carotid stenosis ≥ 50% (%)	12	6	<0.0001	Prior Major Amputation (%)	0.9	1.0	0.5920
History of heart failure (%)	19	3	<0.0001	Medications			
				Statins (%)	90	76	<0.0001
				ACE/ARB (%)	71	60	<0.0001
				Clopidogrel at randomization (%)	54	49	<0.0001

RESULTS

Primary Efficacy Endpoint with and without CAD by Treatment



PAD+CAD
 HR 0.79, 95% CI 0.65-0.96
 ARR 4.8%, NNT 21

PAD Only
 HR 0.89, 95% CI 0.77-1.03
 ARR 1.7%, NNT 59

No. at Risk PAD Only

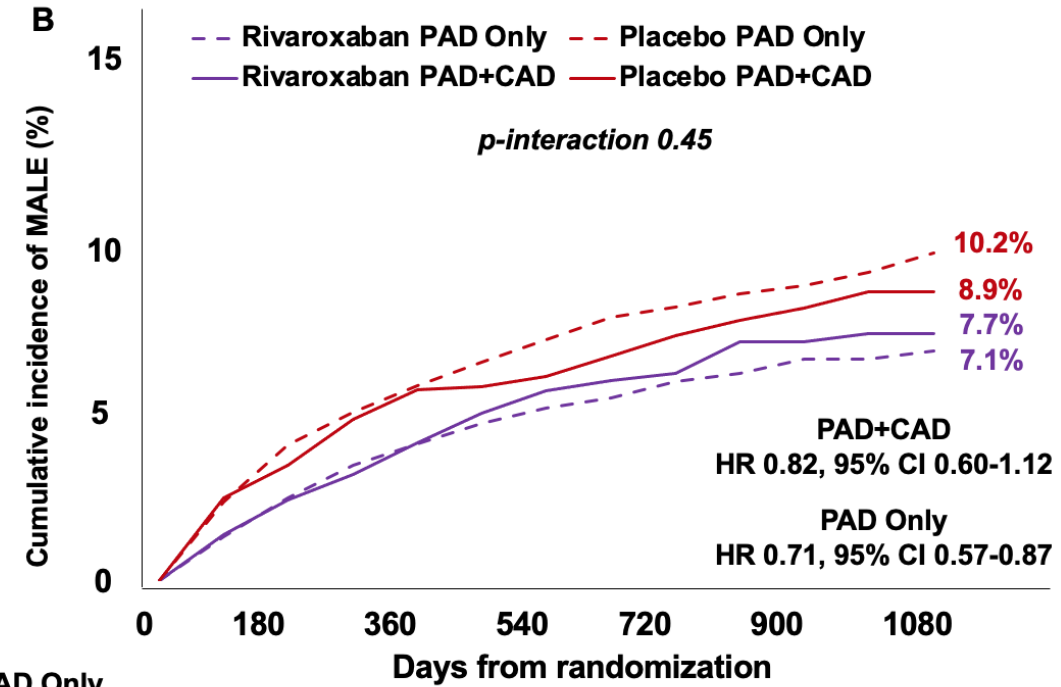
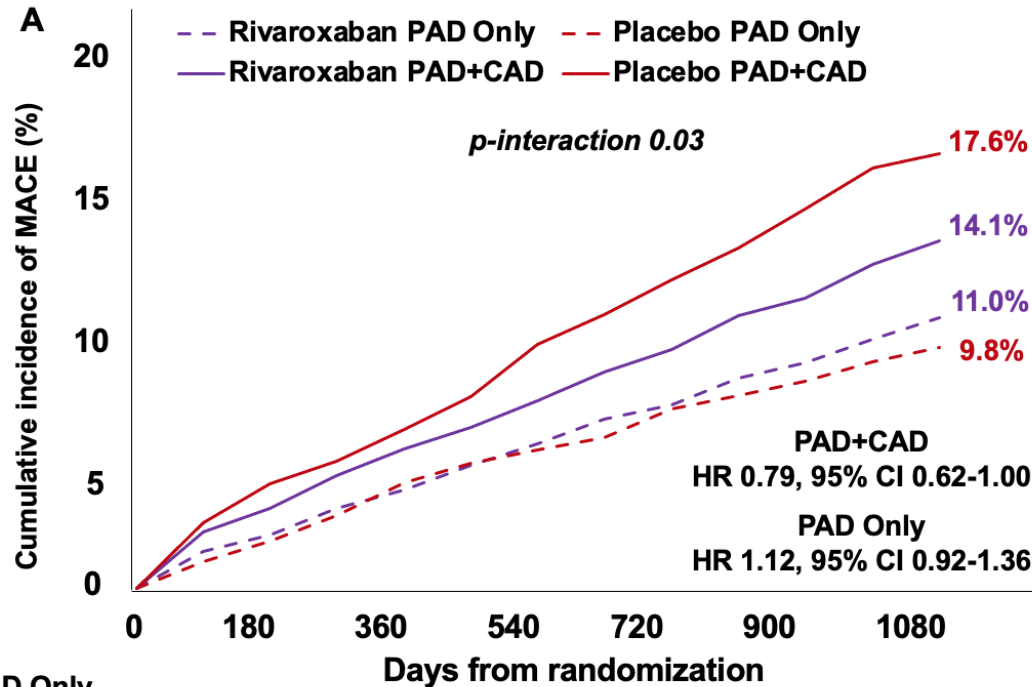
Placebo	2257	2096	1997	1929	1561	997	481
Rivaroxaban	2223	2098	2004	1935	1568	1014	503

No. at Risk PAD + CAD

Placebo	1021	936	887	848	646	411	202
Rivaroxaban	1062	985	937	902	709	455	229

RESULTS

MACE (A) and MALE (B) with and without CAD by Treatment

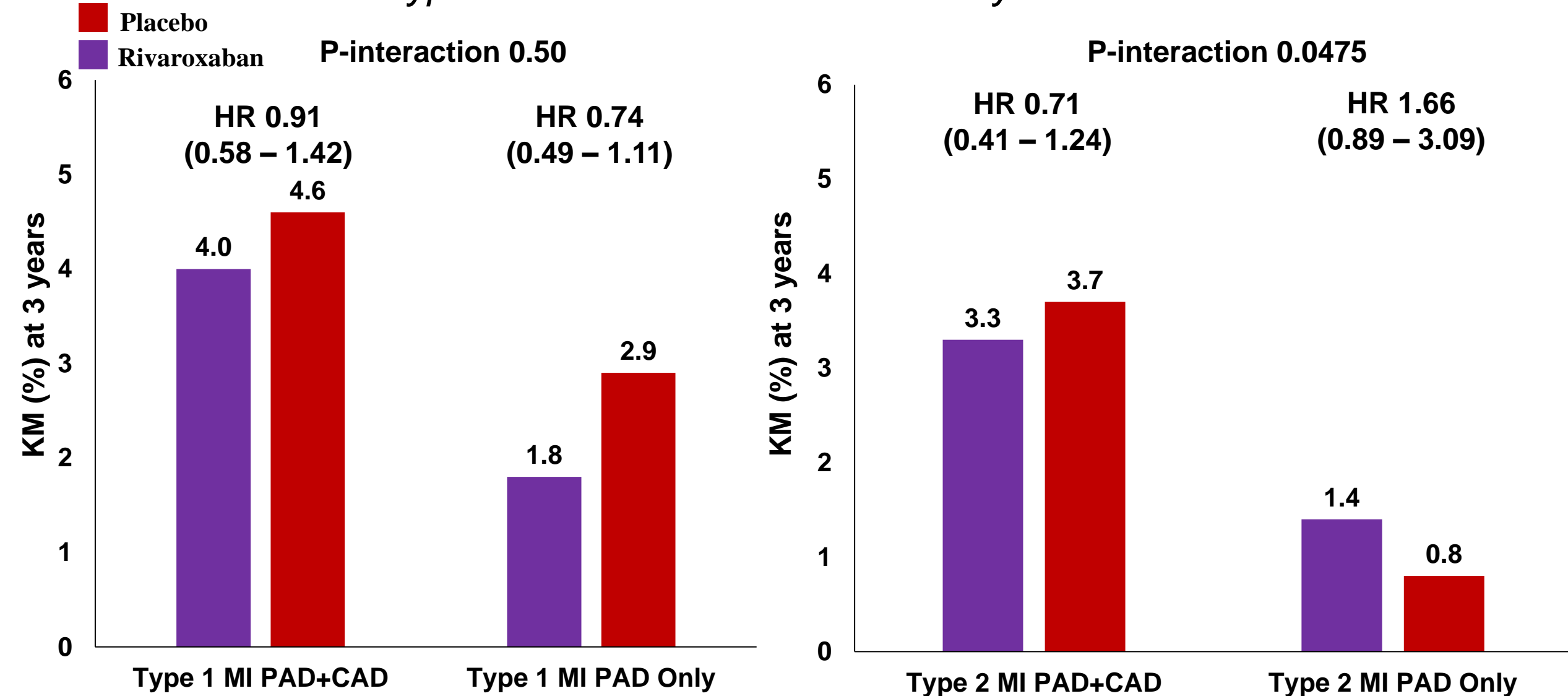


No. at Risk PAD Only							
	0	180	360	540	720	900	1080
Placebo	2257	2183	2112	2068	1652	1060	513
Rivaroxaban	2223	2146	2080	2026	1614	1022	498
No. at Risk PAD+CAD							
	0	180	360	540	720	900	1080
Placebo	1021	966	934	892	671	420	207
Rivaroxaban	1062	1007	976	953	731	465	229

No. at Risk PAD Only							
	0	180	360	540	720	900	1080
Placebo	2257	2109	2028	1971	1567	982	464
Rivaroxaban	2223	2112	2026	1971	1563	990	482
No. at Risk PAD+CAD							
	0	180	360	540	720	900	1080
Placebo	1021	957	918	892	666	424	205
Rivaroxaban	1062	995	960	935	715	456	227

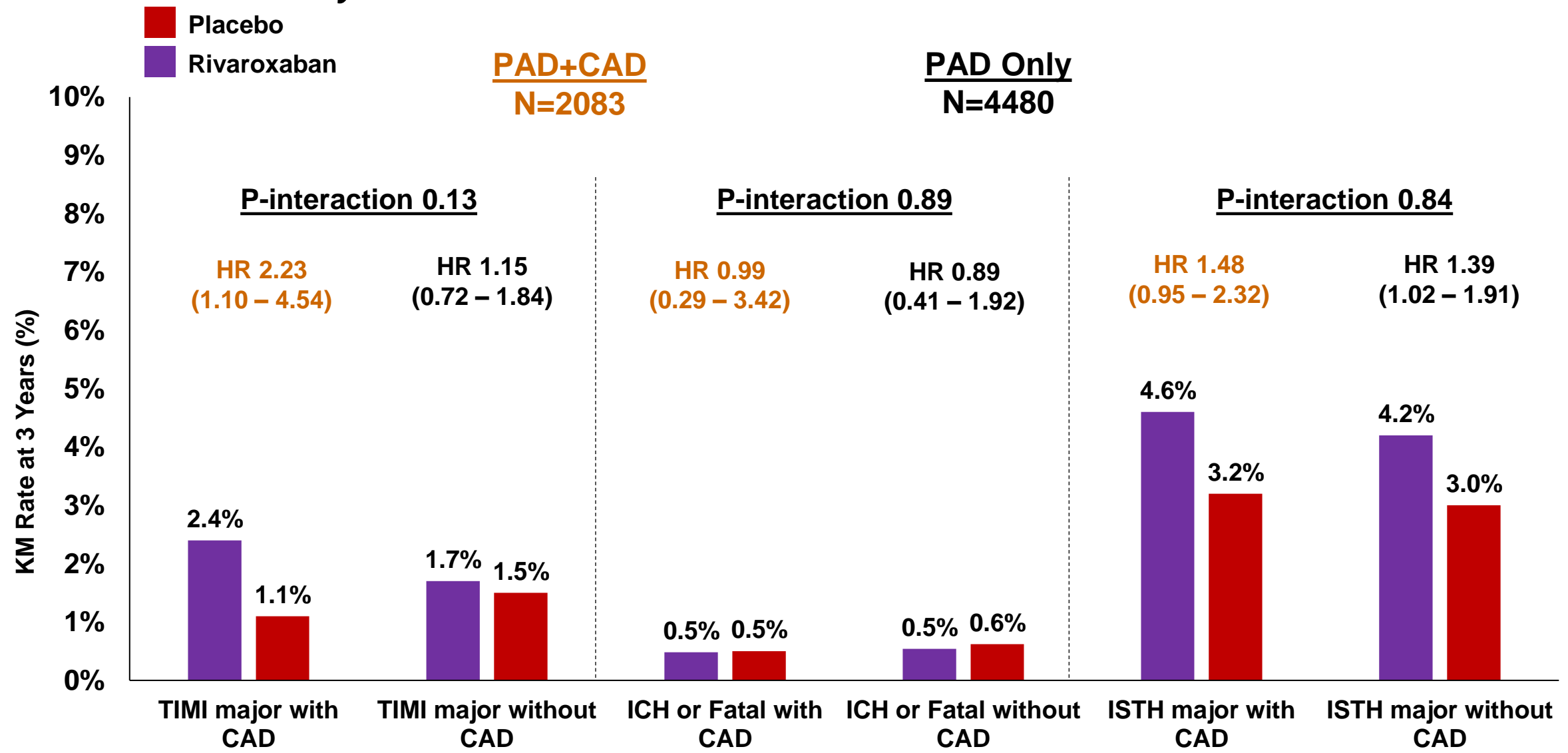
RESULTS

Type of MI with and without CAD by Treatment



RESULTS

Safety of Rivaroxaban vs Placebo With and Without CAD

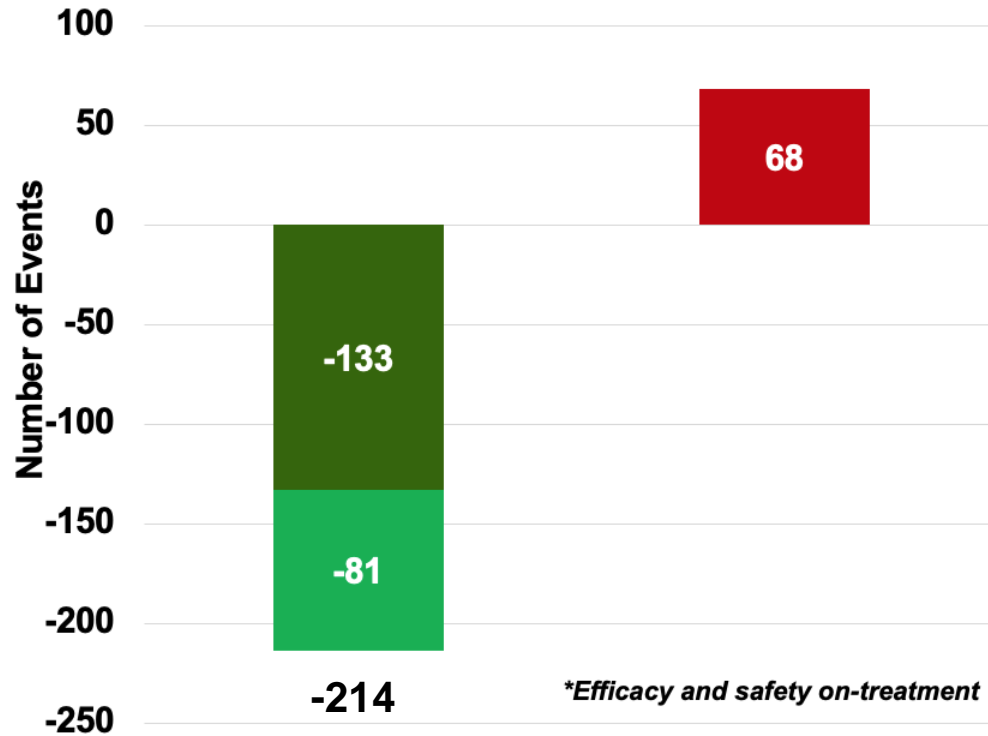


RISK / BENEFIT: ON TREATMENT

First Events Prevented / Caused for 10,000 Patients Treated* for 1 Year

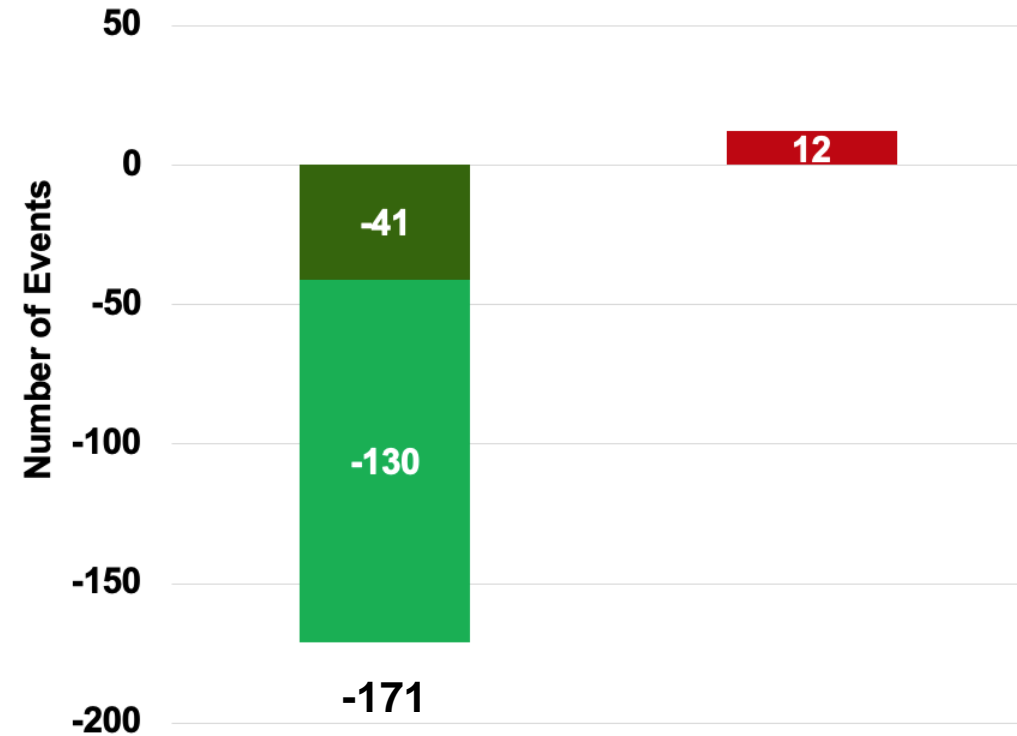
PAD+CAD

<p>Ischemic Events Prevented MACE HR 0.76 (95% CI 0.57-1.01) MALE HR 0.76 (95% CI 0.52-1.10)</p>	<p>Principal Safety Outcome Events Caused HR 2.23 (95% CI 1.10-4.54) (TIMI major bleeding)</p>
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PAD Only

<p>Ischemic Events Prevented MACE HR 0.86 (95% CI 0.67-1.10) MALE HR 0.65 (95% CI 0.51-0.83)</p>	<p>Principal Safety Outcome Events Caused HR 1.15 (95% CI 0.72-1.84) (TIMI major bleeding)</p>
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SUMMARY & CONCLUSION

In patients with lower extremity PAD undergoing revascularization for ischemia:

- Patients with PAD and CAD appear to have higher rates of MACE relative to those with PAD and no CAD.**
- The efficacy and safety of rivaroxaban in PAD are consistent regardless of CAD with no significant interactions, however, the absolute benefits of rivaroxaban appear greater in those with CAD particularly for MACE including MI.**
- Although exploratory and hypothesis generating, heterogeneity in the benefit of rivaroxaban by MI subtype may be an avenue of investigation in understanding the differing results of antithrombotic therapies for MACE reduction in populations selected on the basis of CAD versus PAD.**



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