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Post-procedural anticoagulation after primary percutaneous coronary intervention for ST-segment elevation myocardial infarction: a multicentre, randomised, double-blind trial

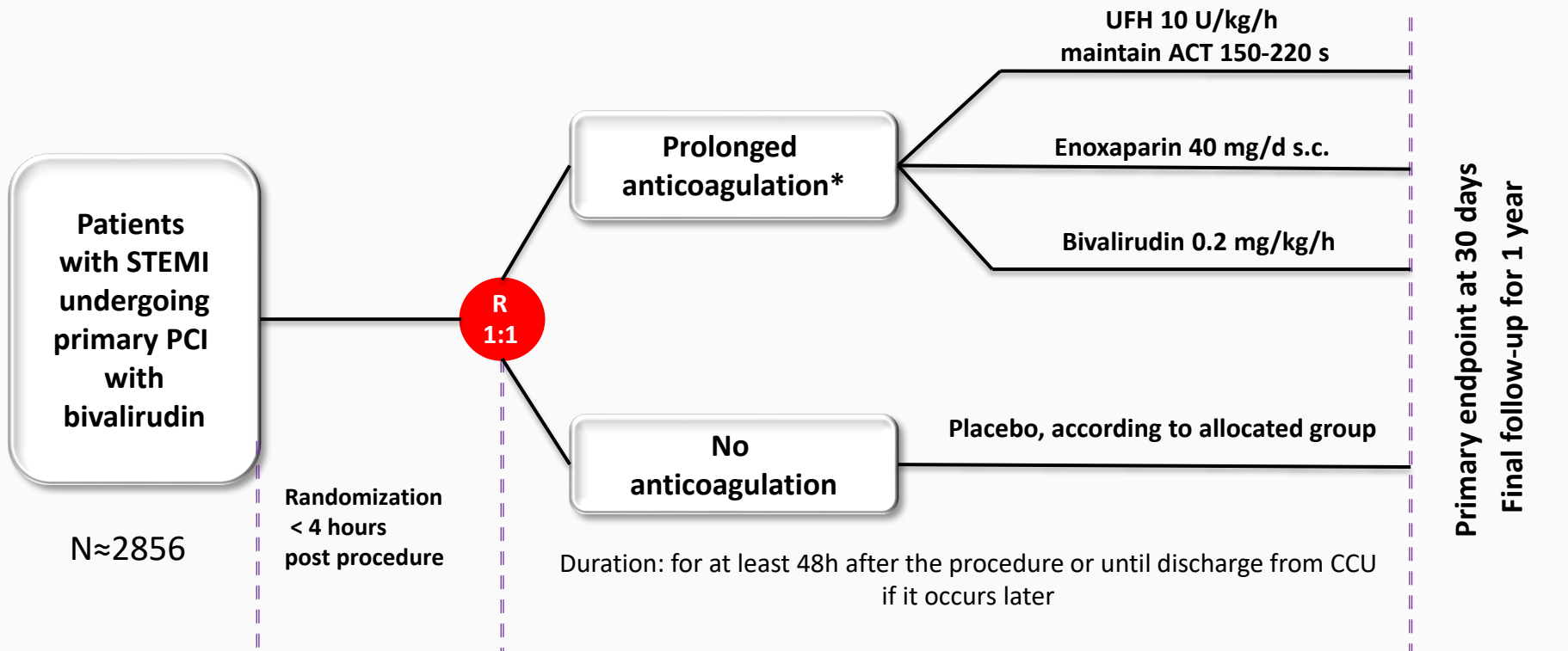
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On behalf of G Montalescot, Y Li, J Lu, Y Yan and the RIGHT trial investigators

Study Design



* Each center will use only one anticoagulant in all patients randomized at this center

Study Endpoints



- **Primary efficacy endpoint**

Composite of all-cause death, non-fatal myocardial infarction, non-fatal stroke, stent thrombosis (definite) or urgent revascularization (of any vessel) at 30 days

- **Primary safety endpoint**

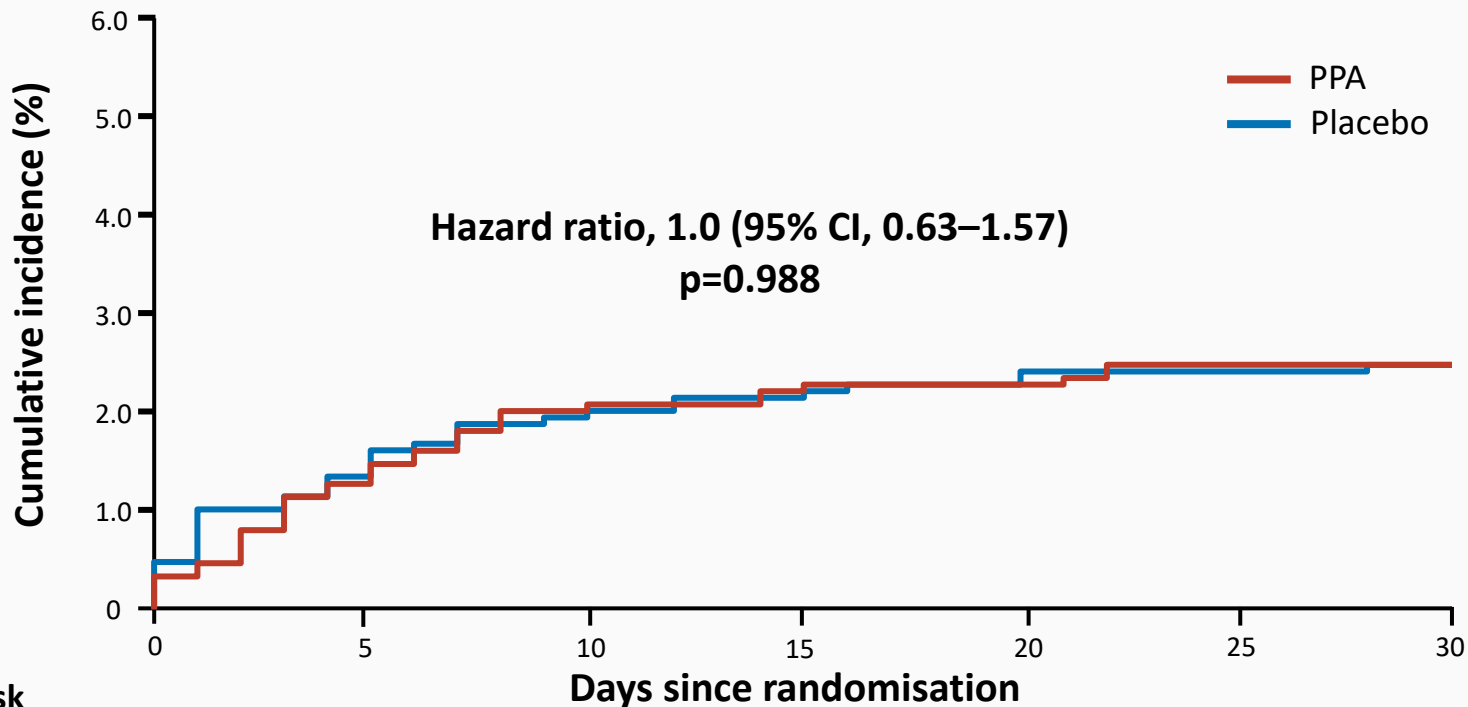
Major bleeding (BARC definition type 3 to 5) at 30 days

Key Baseline Characteristics



Variables	PPA (n=1494)	Placebo (n=1495)
Age, years; mean (SD)	60.7 (12.4)	61.1 (12.3)
Male sex	1195/1494 (80.0)	1175/1495 (78.6)
Current smoking	763/1494 (51.1)	712/1495 (47.6)
Hypertension	830/1494 (55.6)	800/1495 (53.5)
Diabetes	359/1494 (24.0)	372/1495 (24.9)
Dyslipidaemia	637/1494 (42.6)	623/1495 (41.7)
Prior myocardial infarction	107/1494 (7.2)	92/1495 (6.2)
Chronic kidney disease	30/1494 (2.0)	28/1495 (1.9)
Anterior STEMI	640/1494 (42.8)	658/1495 (44.0)
Door-to-balloon time, minutes; median (IQR)	74 (55, 99)	75 (53, 103)
Aspirin before angiography	1467/1494 (98.2)	1458/1495 (97.5)
P2Y ₁₂ inhibitor loading before angiography	1425/1494 (95.4)	1407/1495 (94.1)

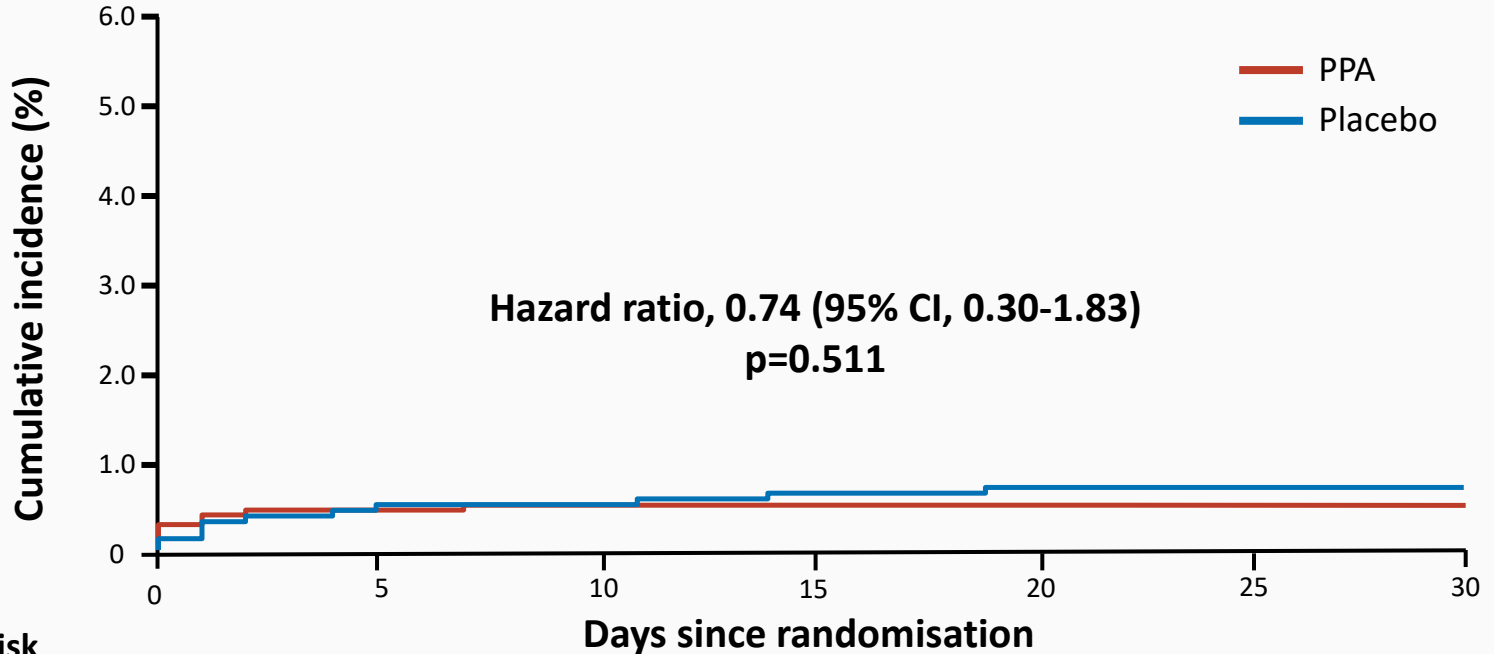
Primary Efficacy Endpoint



No. at risk

Placebo	1495	1475	1466	1463	1461	1459	1458
PPA	1494	1475	1464	1461	1460	1457	1457

Primary Safety Endpoint



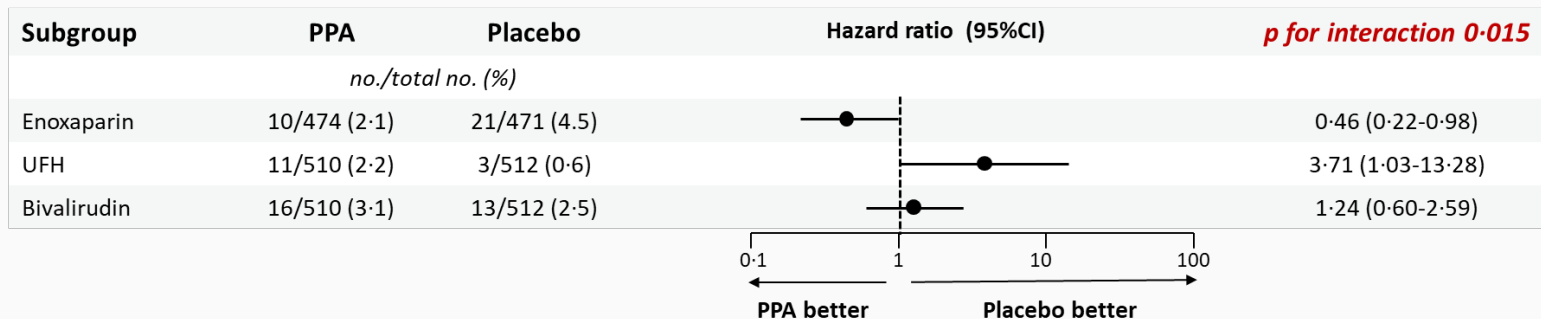
No. at risk

Placebo	1488	1470	1462	1458	1457	1456	1456
PPA	1468	1448	1440	1438	1437	1435	1435

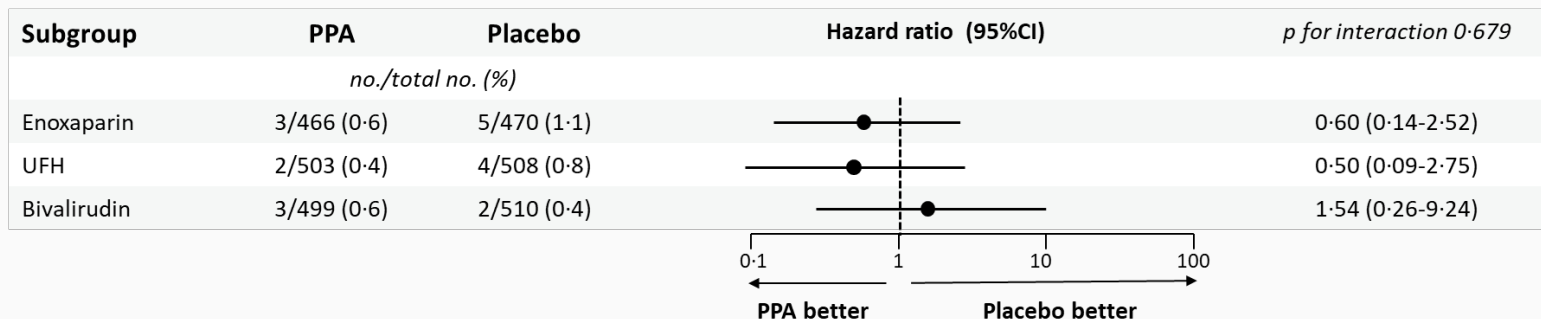
Secondary Exploratory Findings



A Primary efficacy outcome in three anticoagulation regimen groups



B Primary safety outcome in three anticoagulation regimen groups



Conclusion & Clinical Implications

- Routine PPA using low-dose anticoagulation after primary PCI is safe but does not improve ischaemic outcome at 30 days
- Our data suggest that the three anticoagulants may not be equivalent in the prevention of 30-day ischaemic events but this finding deserves confirmation in future studies