SUPPLEMENTARY MATERIAL

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Supplementary Figure 25. Spline functions of relative changes in platelet count and 1-year mortality and bleeding after excluding patients receiving glycoprotein IIb/IIIa inhibitors

Supplementary Figure 26. Spline functions of absolute changes in platelet count and 1-year mortality and bleeding after excluding patients receiving glycoprotein IIb/IIIa inhibitors

Supplementary Table 1. Two-sided test of the scaled Schoenfeld residuals over time

Analysis	Outcome	Chi ²	df	P
DCS (managentage shange)	Mortality	25.09	18	.123
RCS (percentage change)	Bleeding	20.83	18	.288
2 Crowns	Mortality	22.86	16	.118
3 Groups	Bleeding	17.54	16	.352
7.000000	Mortality	29.08	20	.086
7 Groups	Bleeding	20.62	20	.420
DCS (absolute aboute)	Mortality	24.28	18	.146
RCS (absolute change)	Bleeding	22.23	18	.222
RCS (percentage change) after excluding patients with	Mortality	24.26	18	.147
thrombocytopenia (< 100 000/µL) or thrombocytosis (> 450	Bleeding	18.28	18	.375
000/μL) at baseline and/or nadir				
RCS (absolute change) after excluding patients with	Mortality	23.96	18	.157
thrombocytopenia ($< 100000/\mu L$) or thrombocytosis ($> 450000/\mu L$) at baseline and/or nadir	Bleeding	19.44	18	.365

RCS, restricted cubic splines

Supplementary Table 2. Baseline clinical characteristics of patients with and without qualifying platelet data

	Study population $(n = 7722)$	Incomplete platelet data $(n = 657)$
Randomization	,	,
Radial vs femoral	7722	657
Radial	3846 (49.8)	341 (51.9)
Femoral	3876 (50.2)	316 (48.1)
Bivalirudin vs UFH	6687	502
Bivalirudin	3368 (50.4)	231 (46.0)
UFH	3319 (49.6)	271 (54.0)
Clinical Characteristics		
Age, y	65.7 ± 11.8	65.8 ± 12.2
Male sex	5703 (73.9)	454 (69.1)
BMI, kg/m²	27.1 ± 4.1	27.2 ± 4.4
Diabetes mellitus	1755 (22.7)	142 (21.6)
Insulin dependent	427 (5.5)	36 (5.5)
Current smoking	2677 (34.7)	206 (31.4)
Hypercholesterolemia	3406 (44.1)	280 (42.6)
Hypertension	4905 (63.5)	388 (59.1)
Family history of CAD	2102 (27.2)	187 (28.5)
Previous MI	1108 (14.3)	93 (14.2)
Previous PCI	1100 (14.2)	94 (14.3)
Previous CABG	246 (3.2)	11 (1.7)
Previous stroke or TIA	381 (4.9)	42 (6.4)
Peripheral vascular disease	662 (8.6)	46 (7.0)
COPD	493 (6.4)	37 (5.6)
Renal failure	99 (1.3)	4 (0.6)
Dialysis	8 (0.1)	0 (0.0)
Killip class		
I	6994 (90.6)	590 (89.8)
II	516 (6.7)	45 (6.8)
III	153 (2.0)	11 (1.7)
IV	59 (0.8)	11 (1.7)
Clinical presentation		
Unstable angina	448 (5.8)	60 (9.1)
NSTEMI	3567 (46.2)	314 (47.8)
STEMI	3707 (48.0)	283 (43.1)
LVEF, %	51.1 ± 9.6	51.6 ± 9.4
Hemoglobin, g/dl	14.0 ± 1.8	13.7 ± 2.0
Platelet count, per 10³/μL	229 ± 67	N=404, 223 ± 77
Thrombocytopenia (platelet count < 150 000/μL)	610 (7.9)	N=404, 43 (10.6)
Thrombocytosis	134 (1.7)	N=404, 9 (2.2)

WBC count, per $10^3/\mu$ L	9.8 ± 3.5	9.6 ± 3.5
$eGFR$, $ml/min/1.73$ m^2	83.7 ± 25.5	85.5 ± 24.5
Medications at discharge	03.7 ± 23.3	03.3 ± 21.3
Aspirin	7320 (95.5)	577 (93.2)
Clopidogrel	2818 (36.8)	193 (31.2)
Prasugrel	1475 (19.2)	73 (11.8)
Ticagrelor	2261 (29.5)	237 (38.3)
ACE inhibitors	5286 (69.0)	398 (64.3)
	913 (11.9)	76 (12.3)
Angiotensin II receptor blockers	` ′	. ,
Statins	6994 (91.3)	536 (86.6)
Beta-blockers	6253 (81.6)	493 (79.6)
Warfarin	273 (3.6)	16 (2.6)
Proton pump inhibitors	6747 (88.0)	504 (81.4)
Procedure	######################################	(= 0 (0 0 0)
Coronary angiography completed	7720 (100.0)	650 (98.9)
CABG	264 (3.4)	45 (6.8)
Patient with significant lesion and	868 (11.2)	121 (18.4)
medical treatment		
Patient without significant lesion	328 (4.2)	37 (5.6)
PCI attempted	6261 (81.1)	447 (68.6)
Patient died during PCI	0 (0.0)	2 (0.3)
PCI completed	6261 (81.1)	445 (67.7)
IABP	172 (2.2)	13 (2.0)
Total amount of injected contrast, mL	166 ± 84	156 ± 98
Duration of procedure, min	50 ± 28	50 ± 28
Medications in the catheterization		
laboratory		
Clopidogrel	489 (6.3)	31 (4.7)
Prasugrel	604 (7.8)	19 (2.9)
Ticagrelor	688 (8.9)	85 (12.9)
Glycoprotein IIb/IIIa inhibitor	1036 (13.4)	55 (8.4)
Adenosine	241 (3.1)	19 (2.9)
Nitroprussiate	137 (1.8)	6 (0.9)
PCIs	6261	445
TIMI 3 flow post-procedure in all		440 (00 0)
treated lesions	6010 (96.0)	418 (93.9)
Coronary stenosis after PCI < 30% in	(0.10 (0.5 =)	440 (0 (2)
all treated lesions	6042 (96.5)	419 (94.2)
Procedural success in all treated		
lesions	5879 (93.9)	404 (90.8)
Partial procedural success*	113 (1.8)	11 (2.5)
Procedural failure	139 (2.2)	18 (4.0)
Treated vessel(s)	157 (2.2)	10 (1.0)
Left main coronary artery	247 (3.9)	22 (4.9)
Laji mum coronury uriery	3087 (49.3)	212 (47.6)

Left circumflex artery	1660 (26.5)	138 (31.0)
Right coronary artery	2076 (33.2)	135 (30.3)
Bypass graft	53 (0.8)	2 (0.4)
≥2 vessels treated	787 (12.6)	59 (13.3)
Lesion(s) treated per patient		
1	4940 (79.0)	344 (77.3)
2	1075 (17.2)	85 (19.1)
≥ 3	242 (3.9)	16 (3.6)
Number of stents per patient	1.4 ± 0.9	1.4 ± 0.9
Overall stent length per patient, mm	31.7 ± 19.5	30.4 ± 19.4

ACE, angiotensin-converting enzyme; BMI, body mass index; CABG, coronary artery bypass grafting; CAD, coronary artery disease; COPD, chronic obstructive pulmonary disease; eGFR, estimated glomerular filtration rate; IABP, intra-aortic balloon pump; LVEF, left ventricular ejection fraction; MI, myocardial infarction; NSTEMI, non–ST-elevation myocardial infarction; PCI, percutaneous coronary intervention; STEMI, ST-elevation myocardial infarction; TIA, transient ischemic attack; TIMI, Thrombolysis in Myocardial Infarction; WBC, white blood cell.

The data are expressed as No. (%) or mean \pm standard deviation.

^{*}TIMI 3 flow and coronary stenosis less than 30% in at least 1 lesion.

Supplementary Table 3. Baseline clinical characteristics of patients stratified into seven groups according to platelet count change and its severity

	Drop > 50% (n = 84)	Drop 30%-50% (n = 419)	Drop 10%-30% (n = 3168)	Reference (n = 3562)	Increase 10%-30% (n = 399)	Increase 30%-50% (n = 59)	Increase >50% (n = 31)	Р
Randomization								
Radial vs femoral	84	419	3168	3562	399	59	31	
Radial	42 (50.0)	203 (48.4)	1538 (48.5)	1794 (50.4)	218 (54.6)	31 (52.5)	20 (64.5)	
Femoral	42 (50.0)	216 (51.6)	1630 (51.5)	1768 (49.6)	181 (45.4)	28 (47.5)	11 (35.5)	
Bivalirudin vs UFH	69	367	2838	3015	328	44	26	
Bivalirudin	28 (40.6)	166 (45.2)	1473 (51.9)	1496 (49.6)	170 (51.8)	25 (56.8)	10 (38.5)	
UFH	41 (59.4)	201 (54.8)	1365 (48.1)	1519 (50.4)	158 (48.2)	19 (43.2)	16 (61.5)	
Clinical								
characteristics								
Age, yrs	71.0 ± 1.8	67.3 ± 11.6	65.5 ± 11.7	65.3 ± 11.9	68.0 ± 11.9	69.9 ± 11.5	66.6 ± 9.8	< .001
Male sex	54 (64.3)	287 (68.5)	2,331 (73.6)	2,684 (75.4)	286 (71.7)	38 (64.4)	23 (74.2)	.006
$BMI, kg/m^2$	26.6 ± 3.5)	26.6 ± 4.0	26.9 ± 4.0	27.3 ± 4.2	27.2 ± 4.3	26.6 ± 3.3	26.1 ± 4.3	< .001
Diabetes mellitus	21 (25.0)	97 (23.2)	662 (2.9)	849 (23.8)	102 (25.6)	16 (27.1)	8 (25.8)	.075
Insulin dependent	7 (8.3)	26 (6.2)	158 (5.0)	204 (5.7)	23 (5.8)	5 (8.5)	4 (12.9)	.243
Current smoking	15 (17.9)	150 (35.8)	1,123 (35.4)	1,262 (35.4)	100 (25.1)	15 (25.4)	12 (38.7)	< .001
Hypercholesterolemia	26 (31.0)	174 (41.5)	1,400 (44.2)	1,607 (45.1)	162 (4.6)	24 (4.7)	13 (41.9)	.094
Hypertension	54 (64.3)	265 (63.2)	1,989 (62.8)	2,271 (63.8)	269 (67.4)	41 (69.5)	16 (51.6)	.392
Family history of CAD	18 (21.4)	109 (26.0)	849 (26.8)	1,012 (28.4)	92 (23.1)	12 (2.3)	10 (32.3)	.131
Previous MI	12 (14.3)	56 (13.4)	443 (14.0)	530 (14.9)	60 (15.0)	5 (8.5)	2 (6.5)	.560
Previous PCI	14 (16.7)	48 (11.5)	448 (14.1)	526 (14.8)	60 (15.0)	3 (5.1)	1 (3.2)	.081
Previous CABG	2 (2.4)	13 (3.1)	88 (2.8)	121 (3.4)	19 (4.8)	2 (3.4)	1 (3.2)	.466
Previous stroke or TIA	6 (7.1)	18 (4.3)	163 (5.1)	168 (4.7)	19 (4.8)	5 (8.5)	2 (6.5)	.724

Peripheral vascular disease	9 (1.7)	41 (9.8)	242 (7.6)	313 (8.8)	44 (11.0)	8 (13.6)	5 (16.1)	.057
COPD	11 (13.1)	43 (1.3)	168 (5.3)	239 (6.7)	25 (6.3)	3 (5.1)	4 (12.9)	< .001
Renal failure	2 (2.4)	8 (1.9)	36 (1.1)	44 (1.2)	8 (2.0)	0 (.0)	1 (3.2)	.419
Dialysis	1 (1.2)	2 (.5)	1 (.0)	3 (.1)	1 (.3)	0 (.0)	0 (.0)	.007
Killip class	•		· · · · · · · · · · · · · · · · · · ·			` '	· · · · · · · · · · · · · · · · · · ·	< .001
I	64 (76.2)	350 (83.5)	2,905 (91.7)	3,246 (91.1)	357 (89.5)	49 (83.1)	23 (74.2)	
II	8 (9.5)	43 (1.3)	178 (5.6)	244 (6.9)	27 (6.8)	9 (15.3)	7 (22.6)	
III	5 (6.0)	14 (3.3)	65 (2.1)	56 (1.6)	11 (2.8)	1 (1.7)	1 (3.2)	
IV	7 (8.3)	12 (2.9)	20 (.6)	16 (.4)	4 (1.0)	0 (.0)	0 (.0)	
Clinical presentation								< .001
Unstable angina	2 (2.4)	13 (3.1)	165 (5.2)	244 (6.9)	21 (5.3)	2 (3.4)	1 (3.2)	
NSTEMI	24 (28.6)	119 (28.4)	1,266 (4.0)	1,857 (52.1)	253 (63.4)	35 (59.3)	13 (41.9)	
STEMI	58 (69.0)	287 (68.5)	1,737 (54.8)	1,461 (41.0)	125 (31.3)	22 (37.3)	17 (54.8)	
LVEF, %	43.9 ± 13.5	47.4 ± 11.4	5.8 ± 9.5	51.8 ± 9.2	51.8 ± 9.2	49.2 ± 1.5)	47.6 ± 9.2	< .001
Hemoglobin, g/dL	13.5 ± 2.38	14.1 ± 2.0	14.3 ± 1.7	13.9 ± 1.7	13.4 ± 1.91	13.0 ± 2.3	13.3 ± 2.3	< .001
Platelet count, per 10³/μL	282 ± 88	266 ± 85	238 ± 65	220 ± 63	194 ± 56.9	187 ± 65	164 ± 58.2	< .001
Thrombocytopenia (platelet count < 150 000/μL)	3 (3.6)	18 (4.3)	152 (4.8)	314 (8.8)	88 (22.1)	19 (32.2)	16 (51.6)	< .001
Thrombocytosis (platelet count > 400 000/μL)	11 (13.1)	24 (5.7)	63 (2.0)	34 (1.0)	2 (.5)	0 (.0)	0 (.0)	< .001
WBC count, per 10³/μL	12.4 ± 6.1	11.4 ± 4.4	1.0 ± 3.3	9.4 ± 3.2	9.0 ± 3.3	1.2 ± 3.7	1.3 ± 3.4	< .001
eGFR, mL/min/1.73 m ²	73.7 ± 29.1	77.5 ± 28.2	83.0 ± 24.7	85.4 ± 25.3	83.8 ± 28.5	81.1 ± 23.2	82.4 ± 28.0	< .001

Medications at								
discharge								
Aspirin	64 (85.3)	378 (93.3)	3,038 (96.2)	3,390 (95.7)	369 (93.7)	52 (89.7)	29 (96.7)	< .001
Clopidogrel	30 (4.0)	154 (38.0)	1,175 (37.2)	1,278 (36.1)	152 (38.6)	21 (36.2)	8 (26.7)	.745
Prasugrel	8 (1.7)	85 (21.0)	719 (22.8)	609 (17.2)	40 (1.2)	7 (12.1)	7 (23.3)	< .001
Ticagrelor	14 (18.7)	99 (24.4)	866 (27.4)	1,121 (31.6)	138 (35.0)	14 (24.1)	9 (3.0)	< .001
ACE inhibitors	43 (57.3)	275 (67.9)	2,198 (69.6)	2,460 (69.4)	249 (63.2)	38 (65.5)	23 (76.7)	.040
Angiotensin II receptor blockers	9 (12.0)	41 (1.1)	343 (1.9)	458 (12.9)	53 (13.5)	7 (12.1)	2 (6.7)	.137
Statins	60 (8.0)	364 (89.9)	2,928 (92.7)	3,220 (9.9)	347 (88.1)	48 (82.8)	27 (9.0)	< .001
Beta-blockers	57 (76.0)	326 (8.5)	2,615 (82.8)	2,868 (8.9)	313 (79.4)	47 (81.0)	27 (9.0)	.197
Warfarin	6 (8.0)	20 (4.9)	110 (3.5)	117 (3.3)	18 (4.6)	2 (3.4)	0 (.0)	.145
Proton pump inhibitors	71 (94.7)	358 (88.4)	2,761 (87.4)	3,129 (88.3)	349 (88.6)	52 (89.7)	27 (9.0)	.555
Procedure								
Coronary angiography completed	84 (10.0)	418 (99.8)	3,167 (10.0)	3,562 (10.0)	399 (10.0)	59 (10.0)	31 (10.0)	.208
\overline{CABG}	13 (15.5)	35 (8.4)	91 (2.9)	106 (3.0)	13 (3.3)	5 (8.5)	1 (3.2)	< .001
Patient with significant lesion and medical treatment	5 (6.0)	23 (5.5)	292 (9.2)	471 (13.2)	62 (15.5)	12 (2.3)	3 (9.7)	< .001
Patient without significant lesion	3 (3.6)	15 (3.6)	106 (3.3)	178 (5.0)	20 (5.0)	4 (6.8)	2 (6.5)	.033
PCI attempted	63 (75.0)	345 (82.3)	2,679 (84.6)	2,807 (78.8)	304 (76.2)	38 (64.4)	25 (8.6)	< .001
Patient died during PCI	0 (.0)	0 (.0)	0 (.0)	0 (.0)	0 (.0)	0 (.0)	0 (.0)	1.000
PCI completed	63 (75.0)	345 (82.3)	2,679 (84.6)	2,807 (78.8)	304 (76.2)	38 (64.4)	25 (8.6)	< .001
IABP	14 (22.2)	40 (11.6)	37 (1.4)	36 (1.3)	2 (.7)	0 (.0)	1 (4.0)	< .001
Total amount of injected contrast, mL	173 ± 111	160 ± 77	168 ± 82	164 ± 86	166 ± 86	164 ± 87	159 ± 84	.403

Duration of procedure, min	58 ± 33	52 ± 30	49 ± 27	49 ± 29	48 ± 29	50 ± 30	54 ± 31.0	.028
Medications in the								
catheterization								
laboratory								
Clopidogrel	9 (1.7)	31 (7.4)	213 (6.7)	203 (5.7)	28 (7.0)	4 (6.8)	1 (3.2)	.270
Prasugrel	8 (9.5)	21 (5.0)	288 (9.1)	259 (7.3)	24 (6.0)	3 (5.1)	1 (3.2)	.010
Ticagrelor	10 (11.9)	42 (1.0)	258 (8.1)	323 (9.1)	45 (11.3)	4 (6.8)	6 (19.4)	.082
	10 (11.9)	42 (1.0)	236 (6.1)	323 (9.1)	43 (11.3)	4 (0.8)	0 (19.4)	.082
Glycoprotein IIb/IIIa inhibitor	21 (25.0)	83 (19.8)	431 (13.6)	441 (12.4)	51 (12.8)	3 (5.1)	6 (19.4)	< .001
Adenosine	2 (2.4)	18 (4.3)	115 (3.6)	98 (2.8)	5 (1.3)	3 (5.1)	0 (.0)	.047
Nitroprussiate	2 (2.4)	13 (3.1)	73 (2.3)	43 (1.2)	6 (1.5)	0 (.0)	0 (.0)	.007
PCIs	63	345	2,679	2,807	304	38	25	
TIMI 3 flow								
postprocedure in all	58 (92.1)	317 (91.9)	2,573 (96.0)	2,709 (96.5)	295 (97.0)	34 (89.5)	24 (96.0)	< .001
treated lesions								
Coronary stenosis								
after PCI < 30% in all	58 (92.1)	330 (95.7)	2,591 (96.7)	2,712 (96.6)	290 (95.4)	36 (94.7)	25 (10.0)	.299
treated lesions								
Procedural success	57 (0.5)	211 (0.1)	2.514 (02.9)	2 (54 (04 5)	205 (02.0)	24 (90.5)	24 (0(0)	020
in all treated lesions	57 (9.5)	311 (9.1)	2,514 (93.8)	2,654 (94.5)	285 (93.8)	34 (89.5)	24 (96.0)	.038
Partial procedural	0 (0)	7 (2.0)	42 (1.6)	57 (2.0)	((2.0)	1 (2.6)	0 (0)	725
success*	0 (.0)	7 (2.0)	42 (1.6)	57 (2.0)	6 (2.0)	1 (2.6)	0 (.0)	.735
Procedural failure	3 (4.7)	12 (3.5)	57 (2.1)	59 (2.1)	6 (2.0)	2 (5.3)	0 (.0)	.333
Treated vessel(s)								
Left main coronary	0 (12.7)	25 (7.2)	00 (2.7)	06 (2.4)	15 (4.0)	2 (7.2)	2 (0 0)	. 001
artery	8 (12.7)	25 (7.2)	99 (3.7)	96 (3.4)	15 (4.9)	2 (5.3)	2 (8.0)	< .001
Left anterior	22 (52 4)	100 (54.0)	1 200 (40 0)	1 274 (40 0)	1.40 (40.0)	20 (52 ()	12 (52 0)	FAC
descending artery	33 (52.4)	189 (54.8)	1,309 (48.9)	1,374 (48.9)	149 (49.0)	20 (52.6)	13 (52.0)	.546
Left circumflex artery	16 (25.4)	65 (18.8)	681 (25.4)	794 (28.3)	89 (29.3)	9 (23.7)	6 (24.0)	.006
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Right coronary artery	24 (38.1)	113 (32.8)	902 (33.7)	906 (32.3)	106 (34.9)	16 (42.1)	9 (36.0)	.692
Bypass graft	0 (.0)	5 (1.4)	15 (.6)	28 (1.0)	5 (1.6)	0 (.0)	0 (.0)	.220
≥2 vessels treated	12 (19.0)	43 (12.5)	299 (11.2)	369 (13.1)	53 (17.4)	8 (21.1)	3 (12.0)	.009
Lesion(s) treated per								.173
patient								.1/3
1	50 (79.4)	284 (82.6)	2,147 (8.1)	2,188 (78.0)	223 (73.6)	28 (73.7)	20 (8.0)	
2	12 (19.0)	48 (14.0)	433 (16.2)	502 (17.9)	69 (22.8)	8 (21.1)	3 (12.0)	
≥3	1 (1.6)	12 (3.5)	99 (3.7)	115 (4.1)	11 (3.6)	2 (5.3)	2 (8.0)	
Number of stents per	1.6 ± 1.2	1.4 ± .9	$1.4 \pm .9$	$1.4 \pm .8$	1.6 ± 1.0	1.5 ± .9	1.6 ± 1.1	.062
patient	1.0 ± 1.2	1.4 ± .9	1.4 ± .9	1.4 ± .6	1.0 ± 1.0	1.5 ± .9	1.0 ± 1.1	.002
Overall stent length	36 ± 23	32 ± 20	31 ± 20	32 ± 19	35 ± 22	33 ± 21	36 ± 25	.042
per patient (mm)	30 ± 23	32 ± 20	31 ± 20	32 ± 17	33 <u>-</u> 22	33 ± 21	30 ± 23	.0 12

ACE, angiotensin-converting enzyme; BMI, body mass index; CABG, coronary artery bypass grafting; CAD, coronary artery disease; COPD, chronic obstructive pulmonary disease; eGFR, estimated glomerular filtration rate; IABP, intra-aortic balloon pump; LVEF, left ventricular ejection fraction; MI, myocardial infarction; NSTEMI, non-ST-elevation myocardial infarction; PCI, percutaneous coronary intervention; STEMI, ST-elevation myocardial infarction; TIA, transient ischemic attack; TIMI, Thrombolysis in Myocardial Infarction; WBC, white blood cell.

The data are expressed as No. (%) or mean \pm standard deviation.

^{*}TIMI 3 flow and coronary stenosis less than 30% in at least 1 lesion.

Supplementary Table 4. Multivariate predictors of platelet count changes > 30%

Platelet count dro	Platelet count drop > 30%		Platelet count increase > 30%		
OR _{adj} (95% CI)	P	OR _{adj} (95% CI)	P		
1.02 (1.01-1.03)	.005	0.99 (0.97-1.02)	.592		
1.00 (0.97-1.03)	.944	0.97 (0.91-1.03)	.278		
1.02 (0.79.1.33)	.882	0.68 (0.37-1.24)	.207		
0.99 (0.76-1.28)	.909	0.89 (0.49-1.62)	.707		
1.19 (0.82-1.73)	.360	0.85 (0.35-2.07)	.725		
1.87 (1.29-2.69)	.001	0.84 (0.31-2.31)	.737		
,		,			
Reference		Reference			
1.16 (0.80-1.68)	.422	1.96 (0.92-4.15)	.080		
1.16 (0.62-2.16)	.645	1.53 (0.34-6.89)	.582		
1.37 (0.64-2.93)	.414	-	-		
2.81 (2.15-3.66)	< .001	1.24 (0.73-2.10)	.432		
1.02 (0.96-1.08)	.599	0.83 (0.73-0.96)	.010		
1.01 (1.00-1.01)	< .001	0.98 (0.98-0.99)	< .001		
1.07 (1.05-1.10)	< .001	1.06 (1.01-1.12)	.032		
0.99 (0.98-0.99)	< .001	1.00 (0.99-1.01)	.977		
13.00 (4.97- 34.02)	< .001	1.20 (0.12-11.73)	.878		
6.23 (3.95-9.82)	< .001	-	-		
1.68 (0.99-2.85)	.054	0.64 (0.25-1.60)	.336		
1.00 (0.99-1.00)	.553	1.00 (0.99-1.00)	.403		
0.86 (0.70-1.07)	.174	1.62 (0.98-2.67)	.060		
0.78 (0.62-0.98)	.031	0.91 (0.55-1.50)	.702		
Reference		Reference			
1.19 (0.80-1.75)	.388	1.03 (0.40-2.66)	.951		
0.92 (0.65-1.27)	.584	1.49 (0.73-3.06)	.273		
0.66 (0.44-1.01)	.055	0.77 (0.27-2.24)	.633		
1.23 (0.92-1.63)	.156	0.70 (0.31-1.56)	.380		
	OR _{adj} (95% CI) 1.02 (1.01-1.03) 1.00 (0.97-1.03) 1.02 (0.79.1.33) 0.99 (0.76-1.28) 1.19 (0.82-1.73) 1.87 (1.29-2.69) Reference 1.16 (0.80-1.68) 1.16 (0.62-2.16) 1.37 (0.64-2.93) 2.81 (2.15-3.66) 1.02 (0.96-1.08) 1.01 (1.00-1.01) 1.07 (1.05-1.10) 0.99 (0.98-0.99) 13.00 (4.97- 34.02) 6.23 (3.95-9.82) 1.68 (0.99-2.85) 1.00 (0.99-1.00) 0.86 (0.70-1.07) 0.78 (0.62-0.98) Reference 1.19 (0.80-1.75) 0.92 (0.65-1.27) 0.66 (0.44-1.01)	OR _{adj} (95% CI) 1.02 (1.01-1.03) .005 1.00 (0.97-1.03) .944 1.02 (0.79.1.33) .882 0.99 (0.76-1.28) .909 1.19 (0.82-1.73) .360 1.87 (1.29-2.69) .001 Reference 1.16 (0.80-1.68) .422 1.16 (0.62-2.16) .645 1.37 (0.64-2.93) .414 2.81 (2.15-3.66) < .001 1.02 (0.96-1.08) .599 1.01 (1.00-1.01) < .001 1.07 (1.05-1.10) < .001 1.09 (0.98-0.99) < .001 1.3.00 (4.97-34.02) < .001 1.68 (0.99-2.85) .054 1.00 (0.99-1.00) .553 0.86 (0.70-1.07) .174 0.78 (0.62-0.98) .031 Reference 1.19 (0.80-1.75) .388 0.92 (0.65-1.27) .584 0.66 (0.44-1.01) .055	ORadj (95% CI) P ORadj (95% CI) 1.02 (1.01-1.03) .005 0.99 (0.97-1.02) 1.00 (0.97-1.03) .944 0.97 (0.91-1.03) 1.02 (0.79.1.33) .882 0.68 (0.37-1.24) 0.99 (0.76-1.28) .909 0.89 (0.49-1.62) 1.19 (0.82-1.73) .360 0.85 (0.35-2.07) 1.87 (1.29-2.69) .001 0.84 (0.31-2.31) Reference 1.16 (0.80-1.68) .422 1.96 (0.92-4.15) 1.16 (0.62-2.16) .645 1.53 (0.34-6.89) 1.37 (0.64-2.93) .414 - 2.81 (2.15-3.66) <.001		

BMI, body mass index; CABG, coronary artery bypass grafting; cath lab, catheterization laboratory; COPD, chronic obstructive pulmonary disease; eGFR, estimated glomerular filtration rate; GP, glycoprotein; IABP, intra-aortic balloon pump; OR_{adj}, adjusted odds ratio; PCI, percutaneous coronary intervention; STEMI, ST-elevation myocardial infarction.

Supplementary Table 5. Multivariable association of alternative platelet count thresholds (< $150\,000/\mu L$ and $> 400\,000/\mu L$) and mortality and bleeding

		Mortality			Bleeding	
	Rate,	HR _{adj} (95% CI)	P	Rate,	HR _{adj} (95% CI)	P
Baseline platelet count						
< 150 000/μL	4.9	0.93 (0.63-1.37)	.717	9.7	1.13 (0.86-1.48)	.383
150 000-400 000/ μL	3.4	Reference		7.6	Reference	
> 400 000/μL	7.5	1.10 (0.57-2.11)	.777	14.2	1.51 (0.95-2.40)	.081
Nadir platelet count						
< 150 000/μL	6.1	1.32 (1.00-1.74)	.050	11.9	1.53 (1.26-1.86)	< .001
150 000-400 000/μL	3.0	Reference		7.1	Reference	
> 400 000/μL	8.3	1.44 (0.58-3.56)	.430	10.0	1.11 (0.49-2.49)	.809

HR_{adj}, adjusted hazard ratio.

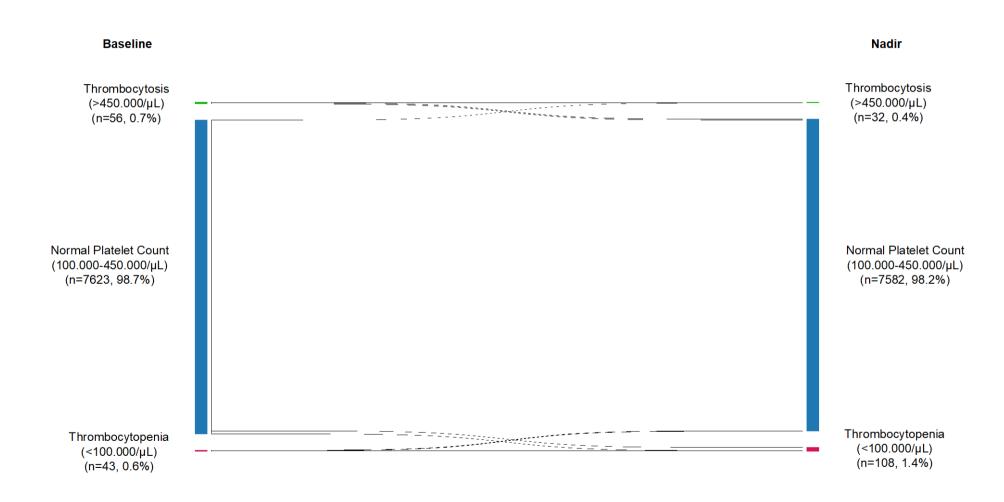
Supplementary Table 6. Causes of mortality across groups of platelet count changes

Groups	Cause of death
	Cardiovascular ($n = 85, 55.9\%$)
	- Acute MI (n = 31, 20.4%)
	- Sudden cardiac death (n = 24, 15.8%)
	- Heart failure (n = 19, 12.5%)
	- Stroke (n = 2, 1.3%)
	- CV hemorrhage (n = 2, 1.3%)
	9 \ , ,
	- CV procedure (n = 3, 2.0%)
	- Other CV causes (n = $4, 2.6\%$)
	Noncardiovascular ($n = 41, 27.0\%$)
	- Non-CV hemorrhage (n = 2, 1.3%)
D 100/	- Non-CV procedure or surgery (n = 0,
Drop >10%	0.0%)
	- Trauma $(n = 0, 0.0\%)$
	- Suicide $(n = 0, 0.0\%)$
	- Malignancy (n = 14, 9.2%)
	- Pulmonary $(n = 9, 5.9\%)$
	- Renal $(n = 2, 1.3\%)$
	- Gastro-intestinal (n = 5, 3.3%)
	- Hepatobiliary (n = $1, 0.7\%$)
	- Pancreatic (n = $0, 0.0\%$)
	- Infection $(n = 7, 4.6\%)$
	- Neurological $(n = 1, 0.7\%)$
	Unknown $(n = 26, 17.1\%)$
	Cardiovascular ($n = 51, 56.0\%$)
	- Acute MI (n = 16, 17.6%)
	- Sudden cardiac death $(n = 6, 6.6\%)$
	- Heart failure (n = 14, 15.4%)
	- Stroke $(n = 4, 4.4\%)$
	- CV hemorrhage (n = 5, 5.5%)
	- CV procedure (n = 4, 4.4%)
	- Other CV causes (n = 2, 2.2%)
	Noncardiovascular ($n = 25, 27.5\%$)
	- Non-CV hemorrhage (n = 0, 0.0%)
	- Non-CV procedure or surgery (n = 0,
Reference	0.0%)
Reference	- Trauma (n = 2, 2.2%)
	- Suicide (n = 1, 1.1%) Malignary (n = 10, 11, 00/)
	- Malignancy (n = $10, 11.0\%$)
	- Pulmonary (n = 4, 4.4%)
	- Renal $(n = 1, 1.1\%)$
	- Gastro-intestinal (n = 1, 1.1%)
	- Hepatobiliary (n = $0, 0.0\%$)
	- Pancreatic (n = 0, 0.0%)
	- Infection (n = $6, 6.6\%$)
	- Neurological (n = 0, 0.0%)
	Unknown ($n = 15, 16.5\%$)
	Cardiovascular ($n = 16, 51.6\%$)
	- Acute MI $(n = 6, 19.4\%)$
Increase >10%	- Sudden cardiac death (n = 3, 9.7%)
	- Heart failure (n = $1, 3.2\%$)
	- Stroke $(n = 1, 3.2\%)$

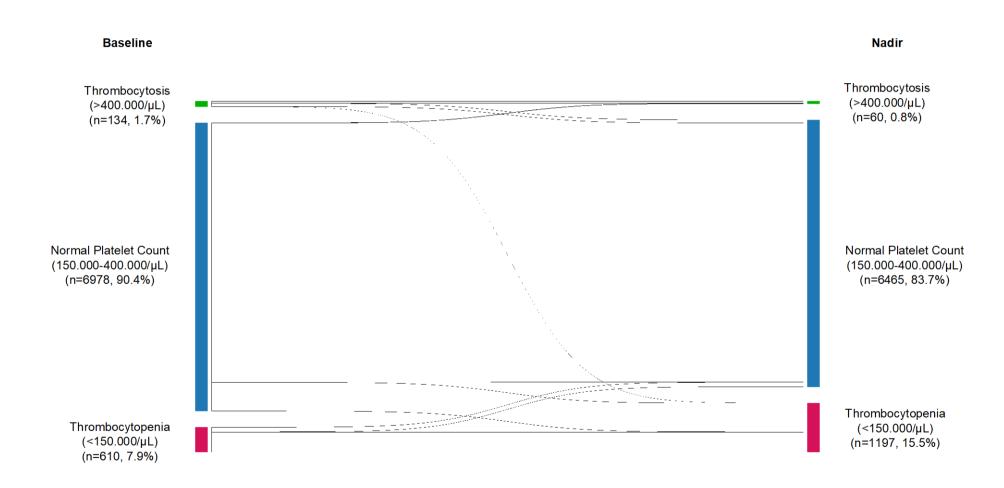
- CV hemorrhage (n = $0, 0.0\%$)
- CV procedure $(n = 3, 9.7\%)$
- Other CV causes $(n = 2, 6.5\%)$
Noncardiovascular ($n = 9, 29.0\%$)
- Non-CV hemorrhage (n = $0, 0.0\%$)
- Non-CV procedure or surgery (n = 1,
3.2%)
- Trauma $(n = 0, 0.0\%)$
- Suicide $(n = 0, 0.0\%)$
- Malignancy (n = $2, 6.5\%$)
- Pulmonary $(n = 1, 3.2\%)$
- Renal $(n = 0, 0.0\%)$
- Gastro-intestinal ($n = 0, 0.0\%$)
- Hepatobiliary (n = $0, 0.0\%$)
- Pancreatic $(n = 1, 3.2\%)$
- Infection $(n = 4, 12.9\%)$
- Neurological (n = $0, 0.0\%$)
Unknown $(n = 6, 19.4\%)$
CV and important MI are and in the control of

CV, cardiovascular; MI, myocardial infarction.

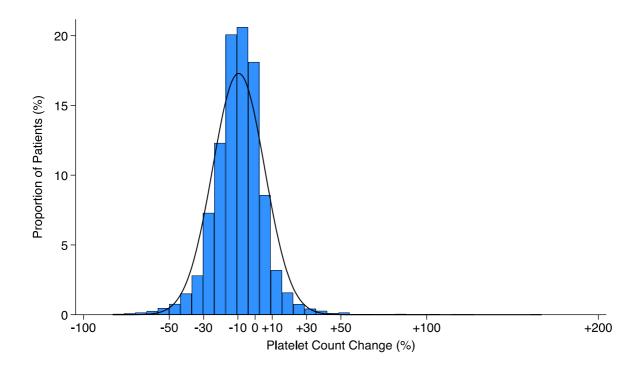
Supplementary figure 1. Sankey diagram for transition of thrombocytopenia (< $150~000/\mu$ L), normal platelet count ($150~000-40~000/\mu$ L), and thrombocytosis (> $400~000/\mu$ L) rates from baseline to nadir.



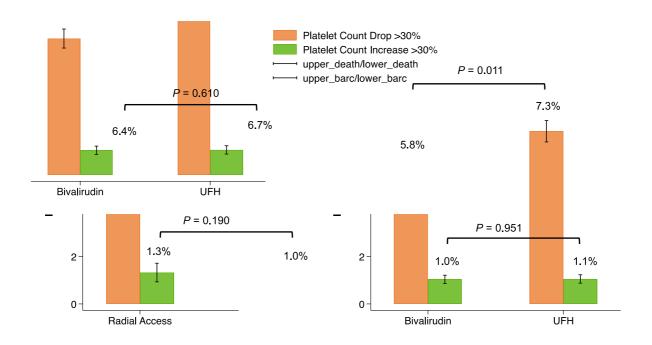
Supplementary figure 2. Sankey diagram for transition of thrombocytopenia (< 150 000/μL), normal platelet count (150 000-40 000/μL), and thrombocytosis (> 400 000/μL) rates from baseline to nadir.



Supplementary figure 3. Histogram of the distribution of relative changes in platelet count.

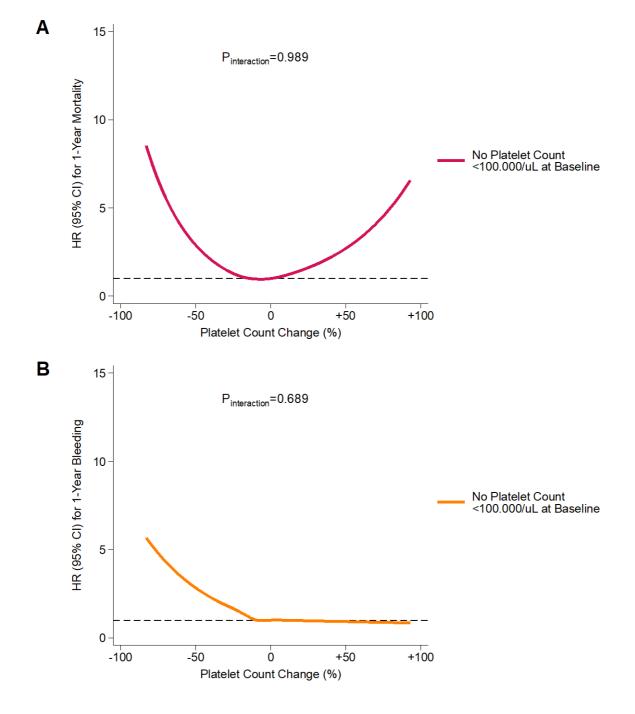


Supplementary figure 4. Rates of platelet count changes > 30% across randomized treatments.



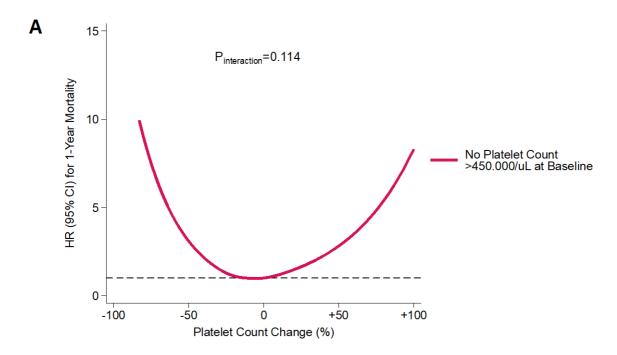
Supplementary figure 5. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count <100 $000/\mu L$ at baseline.

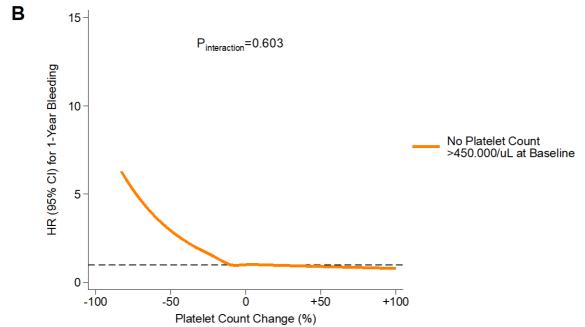
*Only 43 patients had a platelet count < 100 000/µL at baseline. (A) Mortality. (B) Bleeding.



Supplementary figure 6. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count > 450 000/ μ L at baseline.

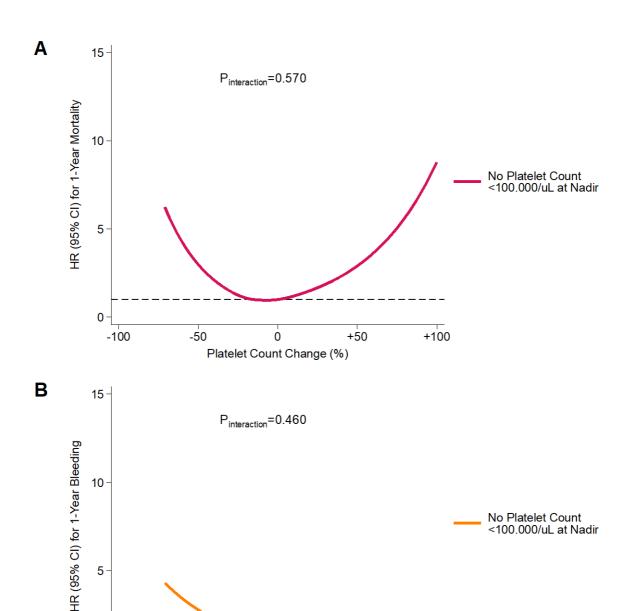
*Only 56 patients had a platelet count $> 450\,000/\mu L$ at baseline. (A) Mortality. (B) Bleeding.





Supplementary figure 7. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count < 100 $000/\mu L$ at nadir.

*Only 108 patients had a platelet count < 100 000/µL at nadir. (A) Mortality. (B) Bleeding.



+50

+100

0

Platelet Count Change (%)

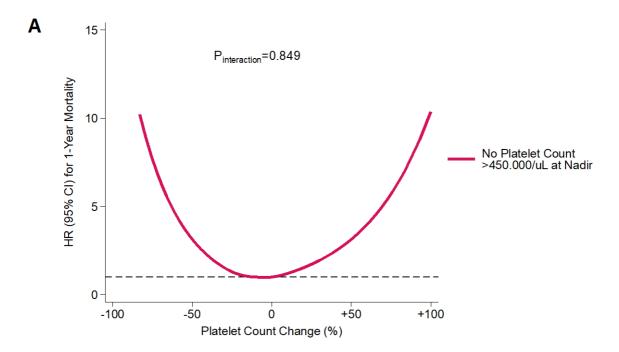
-50

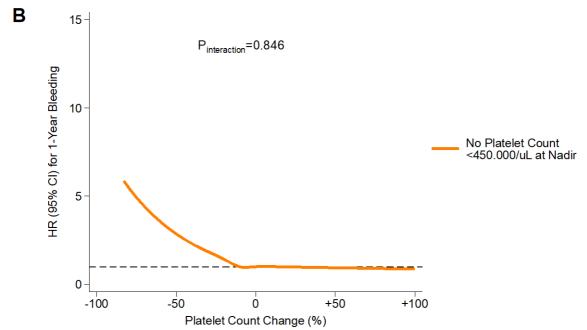
0

-100

Supplementary figure 8. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count >450 $000/\mu L$ at nadir.

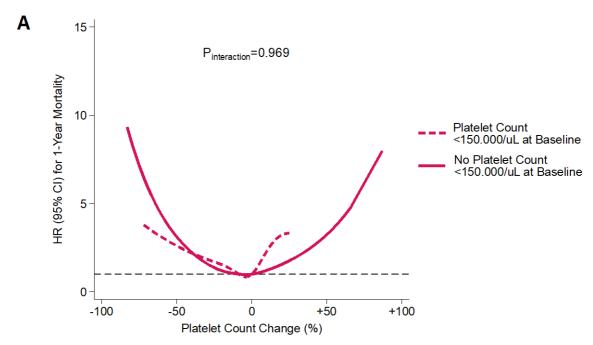
*Only 32 patients had a platelet count $>450\,000/\mu L$ at nadir. (A) Mortality. (B) Bleeding.

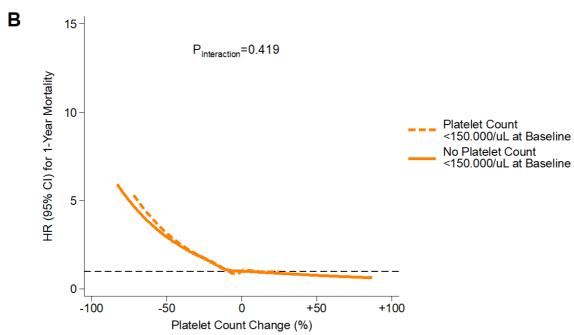




Supplementary figure 9. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count < 150 $000/\mu L$ at baseline.

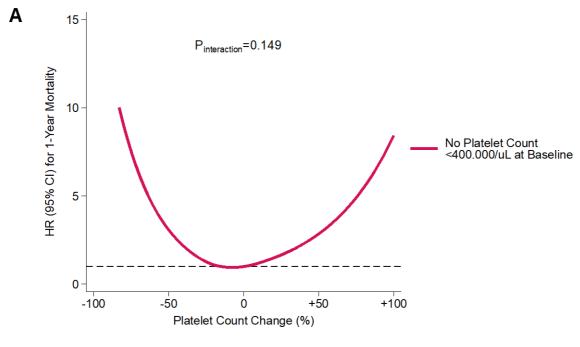
(A) Mortality. (B) Bleeding.

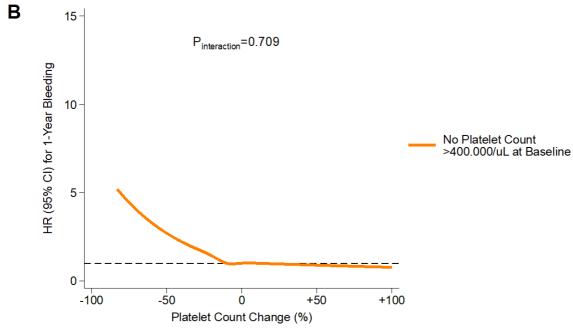




Supplementary figure 10. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count > 400 $000/\mu L$ at baseline.

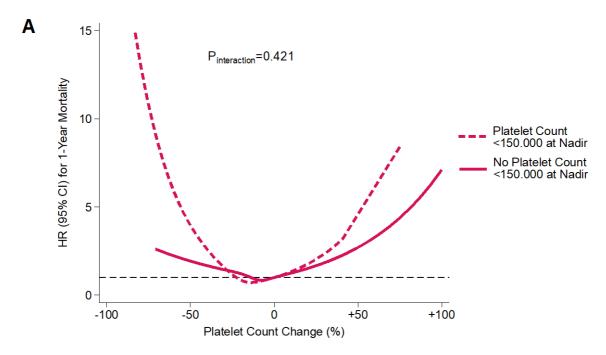
*Only 134 patients had a platelet count > $400\,000/\mu$ L at baseline. (A) Mortality. (B) Bleeding.

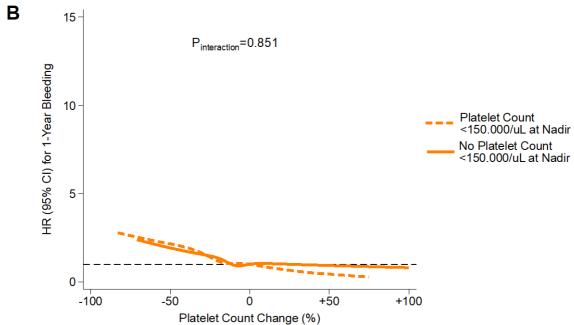




Supplementary figure 11. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count <150 $000/\mu L$ at nadir.

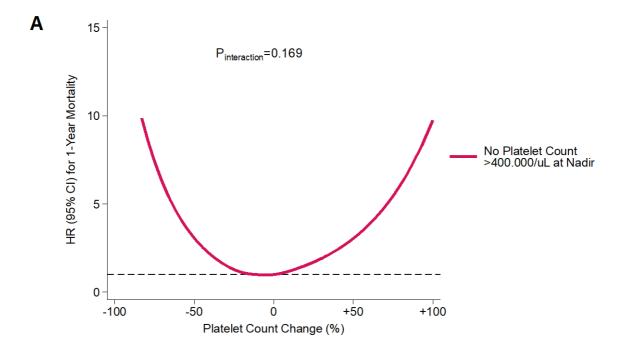
(A) Mortality. (B) Bleeding.

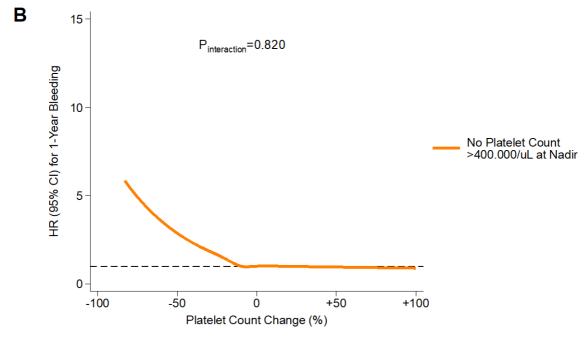




Supplementary figure 12. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to platelet count > 400 $000/\mu L$ at nadir.

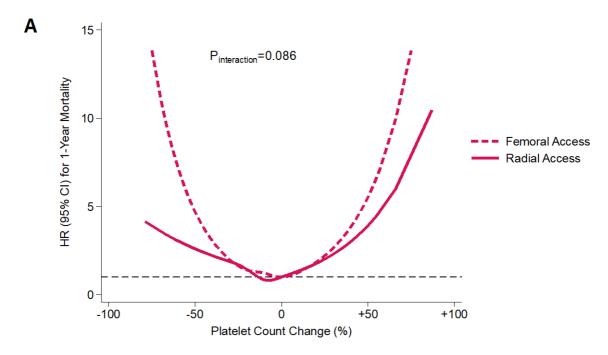
*Only 60 patients had a platelet count > $400\,000/\mu$ L at nadir. (A) Mortality. (B) Bleeding.

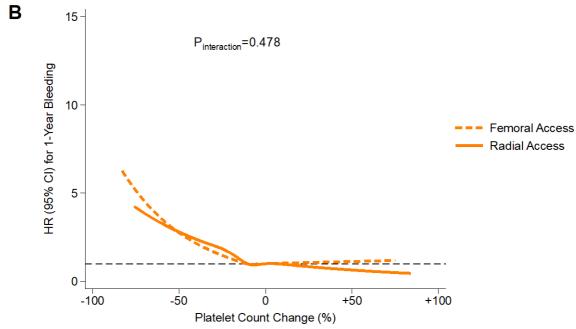




Supplementary figure 13. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to randomization to radial access vs femoral access.

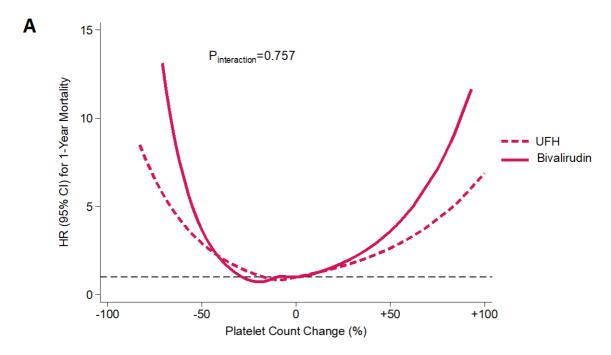
(A) Mortality. (B) Bleeding.

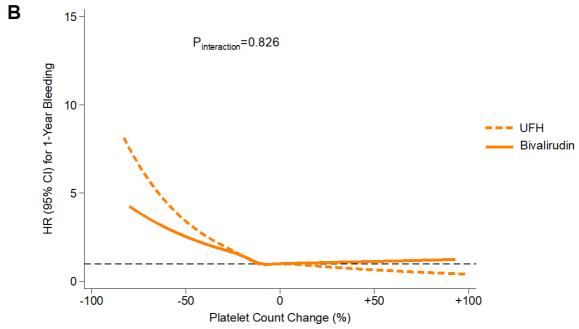




Supplementary Figure 14. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to randomization to bivalirudin vs UFH.

(A) Mortality. (B) Bleeding.





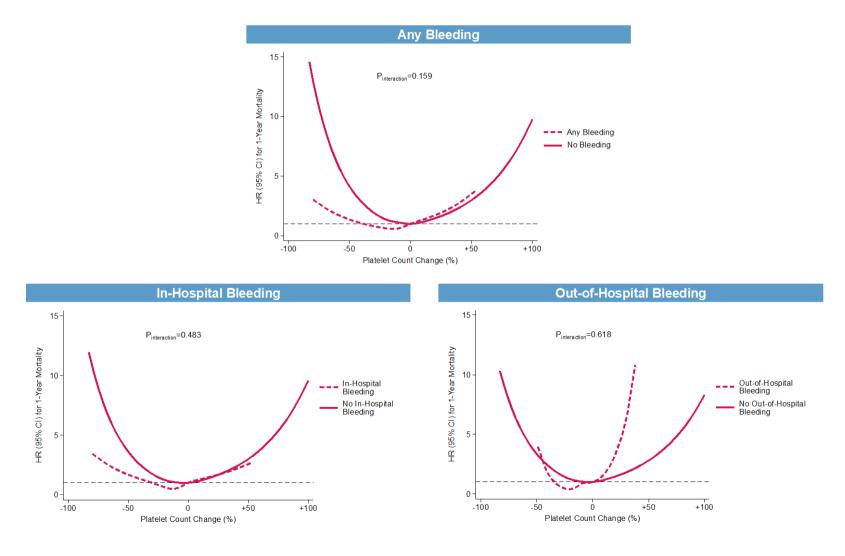
Supplementary Figure 15. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to age ≥ 75 years.

Supplementary Figure 16. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to diabetes mellitus.

Supplementary Figure 17. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to renal failure.

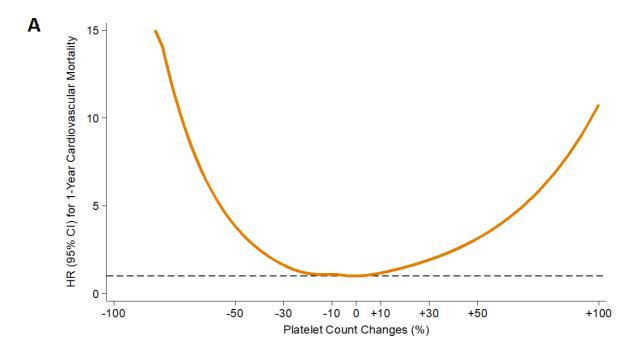
Supplementary Figure 18. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality and bleeding stratified according to STEMI.

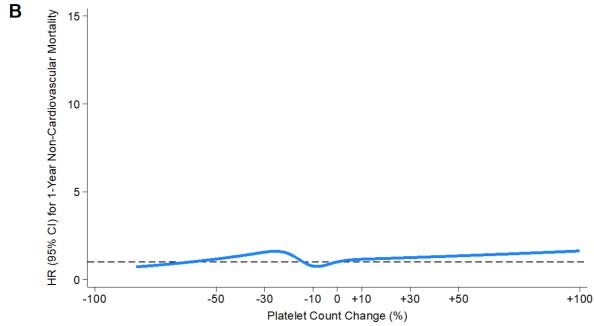
Supplementary Figure 19. Spline functions of relative changes in platelet count on a continuous scale and 1-year mortality stratified according to any/in-hospital/out-of-hospital bleeding.



Supplementary Figure 20. Spline functions of relative changes in platelet count on a continuous scale and 1-year cardiovascular and noncardiovascular mortality.

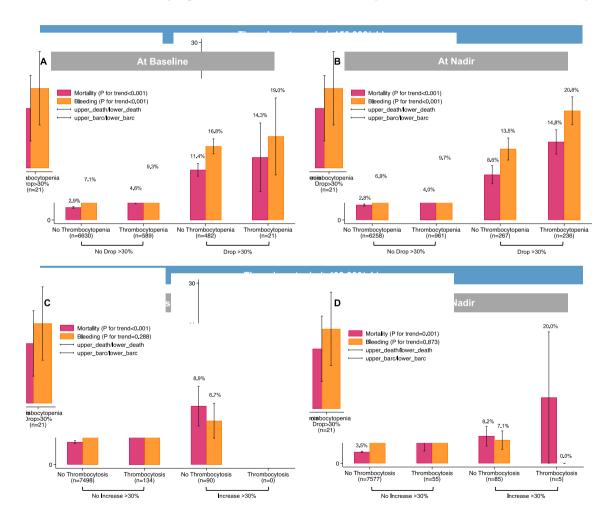
(A) Cardiovascular mortality. (B) Noncardiovascular mortality.





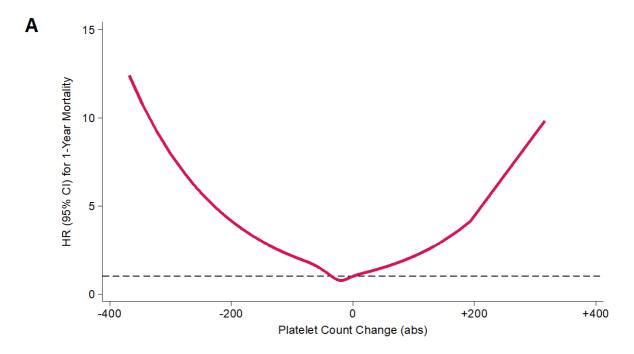
Supplementary Figure 21. Event rates of patients stratified according to platelet count drop/increase >30% and low (<100.000/μL)/high (> 450 000/μL) platelet count at baseline or nadir.

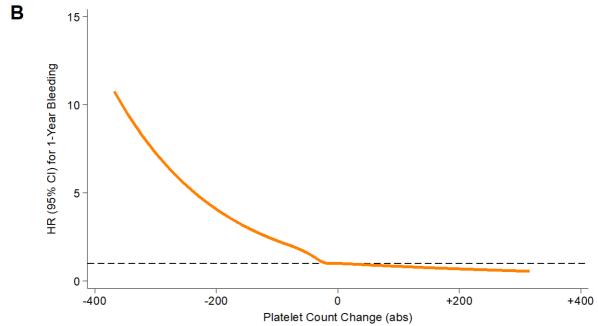
(A) Thrombocytopenia at baseline. (B) Thrombocytopenia at nadir. (C) Thrombocytosis at baseline. (D) Thrombocytosis at nadir.



Supplementary Figure 22. Spline functions of absolute change in platelet count on a continuous scale and 1-year mortality and bleeding.

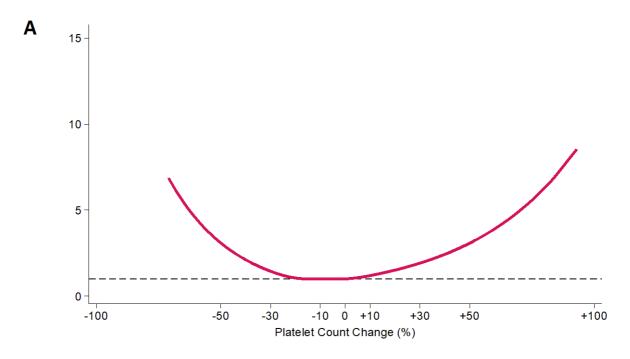
(A) Mortality. (B) Bleeding.

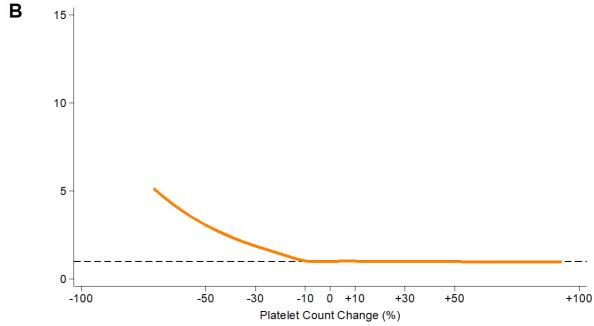




Supplementary Figure 23. Spline functions of relative changes in platelet count and 1-year mortality and bleeding after excluding patients with low ($< 100\,000/\mu L$) or high ($> 450\,000/\mu L$) platelet counts at baseline and/or nadir.

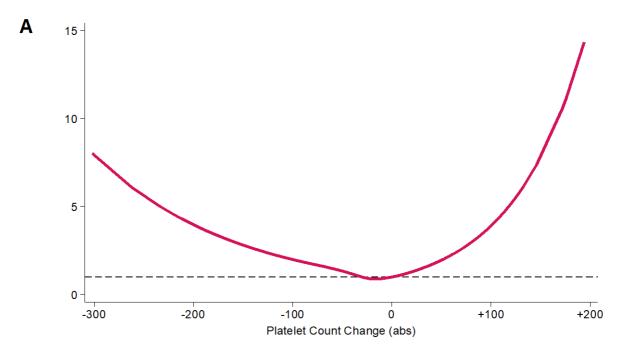
N = 7539 patients. (A) Mortality. (B) Bleeding.

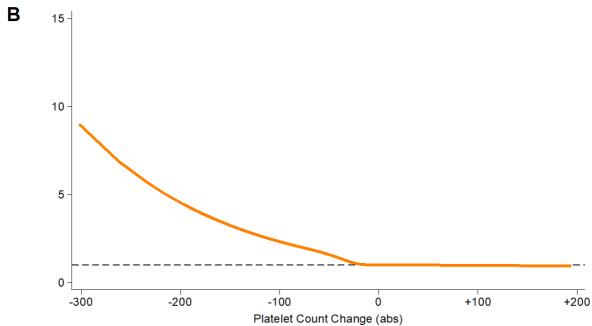




Supplementary Figure 24. Spline functions of absolute changes in platelet count and 1-year mortality and bleeding after excluding patients with low ($<100\,000/\mu$ L) or high ($>450\,000/\mu$ L) platelet counts at baseline and/or nadir.

N = 7539 patients. (A) Mortality. (B) Bleeding.





Supplementary Figure 25. Spline functions of relative changes in platelet count and 1-year mortality and bleeding after excluding patients receiving glycoprotein IIb/IIIa inhibitors.

N = 6686 patients. (A) Mortality. (B) Bleeding.

Supplementary Figure 26. Spline functions of absolute changes in platelet count and 1-year mortality and bleeding after excluding patients receiving glycoprotein IIb/IIIa inhibitors.

N = 6686 patients. (A) Mortality. (B) Bleeding.