Supplementary Table 1 Causes of mortality according to smoking status

Variable	Current Smokers (N=16664)	Ex-smokers (N=4253)	Non-smokers (N=16697)	p value
Sudden cardiac death	202/16664 (1.2%)	107/4253 (2.5%)	519/16697 (3.1%)	0.0387
Cardiac shock	157/16664 (0.9%)	85/4253 (2.0%)	375/16697 (2.2%)	0.3203
Heart failure	121/16664 (0.7%)	65/4253 (1.5%)	291/16697 (1.7%)	0.3277
Intracerebral hemorrhage	4/16664 (0.0%)	1/4253 (0%)	3/16697 (0%)	0.8199
Lung infection	15/16664 (0.1%)	10/4253 (0.2%)	26/16697 (0.2%)	0.2833
Ischemic stroke	3/16664 (0.0%)	2/4253 (0%)	7/16697 (0.0%)	0.8873
Major bleeding	3/16664 (0.0%)	0/4253 (0%)	6/16697 (0.0%)	0.0989
Others	25/16664 (0.2%)	9/4253 (0.2%)	47/16697 (0.3%)	0.4176

Supplementary Table 2 Baseline characteristics between current smokers vs. non-smokers (After matching)

Variable	Current Smokers (N=8552)	Non-smokers (N=8552)	p value	Standardized difference
Age	62.80±11.53	62.84±12.04	0.6983	0.0035
Male	1048/8552 (87.7%)	7485/8552 (87.5%)	0.0995	0.0067
BMI (Kg/m²)	24.18±2.88	24.17`±2.79	0.7580	0.0047
ST-elevation on ECG	71.1%	71.5%	0.5830	0.0083
SBP(mmHg)	129.01±25.75	128.90±24.68	0.7767	0.0043
Heart rate(bpm)	77.88±18.55	77.61±17.40	0.3279	0.0147
Heart failure on admission	1208 (14.1%)	1144 (13.4%)	0.1448	0.0217
Cardiac shock	297 (3.5%)	285 (3.3%)	0.6165	0.0077
Killip classification			0.6823	0.0080
I	6564/8552 (76.8%)	6593/8552 (77.1%)		
II	1312/8552 (15.3%)	1301 /8552 (15.2%)		
III	341 /8552 (4.0%)	330/8552 (3.9%)		
IV	335 /8552 (3.9%)	328 /8552 (3.8%)		
Comorbidities				
Hypertension	4309/8552 (50.4%)	4256 /8552 (49.8%)	0.4066	0.0124
Hyperlipidemia	582/8552 (6.8%)	550 /8552 (6.4%)	0.3293	0.0151
Diabetes	1629 /8552 (19.0%)	1575/8552 (18.4%)	0.2747	0.0162
PVD	67 /8552 (0.8%)	45/8552 (0.5%)	0.0376	0.0319
Heart failure	146 /8552 (1.7%)	143 //8552 (1.7%)	0.8570	0.0027
Stroke	762/8552 (8.9%)	751 /8552 (8.8%)	0.7671	0.0045
COPD	150/8552 (1.8%)	150 /8552 (1.8%)	1.0000	0.0000
Chronic kidney disease	92 /8552 (1.1%)	89/8552 (1.0%)	0.8206	0.0034
Hb (g/L)	137.32 ±18.04	137.46 ±18.20	0.5606	0.0076
Creatinine (mg/L)	37.40 ±0.59	37.40 ±1.13	0.9837	0.0003
Primary PCI	3778 /8552 (44.2%)	3858/8552 (42.3%)	0.1966	0.0188
P2Y12 inhibitors	7880/8552 (92.1%)	7912/8552 (92.5%)	0.3576	0.0141
GRACE risk score	161.33±34.18	161.31 ±34.22	0.9460	0.0008
In-hospital mortality	438/8552 (5.1%)	522/8552 (6.1%)	0.0045	

Data are presented as mean±SD or frequencies; BMI: body mass index; ECG: electrocardiogram; SBP: systolic blood pressure; PVD: peripheral vascular disease; COPD: chronic obstructive pulmonary disease; Hb: hemoglobin; GRACE: the global registry of acute coronary events PVD: peripheral vascular disease; COPD: chronic obstructive pulmonary disease;

Supplementary Table 3 Baseline characteristics between ex-smokers vs. non-smokers (After matching)

Variable	Ex-smokers (N=4142)	Non-smokers (N=4142)	p value	Standardized difference
Age	66.28±11.49	66.02±12.19	0.2242	0.0222
Male	3887/4142 (93.8%)	3886 /4142(93.8%)	0.3173	0.0010
BMI (Kg/m^2)	23.96±2.83	24.02 ±2.79	0.2900	0.0226
ST-elevation on ECG	2740 /4142 (66.2%)	2753 /4142 (66.5%)	0.4054	0.0175
SBP(mmHg)	129.62±25.19	129.58±25.12	0.9422	0.0016
HR (bpm)	79.66±19.73	79.65±18.75	0.9679	0.0009
Heart failure on admission	763 /4142 (18.4%)	775 /4142 (18.7%)	0.7158	0.0075
Cardiac shock	171/4142 (4.1%)	147/4142 (3.5%)	0.1701	0.0302
Killip classification			0.4505	0.0157
I	2868/4142 (69.2%)	2898/4142 (70.0%)		
II	767/4142(18.5%)	764 /4142(18.4%)		
III	301/4142(7.3%)	270/4142(6.5%)		
IV	206/4142(5.0%)	210 /4142(5.1%)		
Comorbidities				
Hypertension	2255/4142 (54.4%)	2223/4142 (53.7%)	0.4668	0.0155
Hyperlipidemia	339 /4142(8.2%)	309/4142 (7.5%)	0.2057	0.0270
Diabetes	892/4142 (21.5%)	881/4142 (21.3%)	0.7664	0.0065
PVD	46 /4142 (1.1%)	23/4142 (0.6%)	0.0050	0.0611
Heart failure	170 /4142 (4.1%)	147/4142 (3.5%)	0.1466	0.0289
Stroke	532 /4142 (12.8%)	532 /4142 (12.8%)	1.0000	0.0000
COPD	143/4142 (3.5%)	124 /4142 (3.0%)	0.1294	0.0260
Chronic kidney disease	92 /4142 (2.2%)	89/4142 (2.1%)	0.8108	0.0050
Hb (g/L)	135.50 ±19.39	135.48 ±19.08	0.9618	0.0010
Creatinine (mg/L)	37.40 ±0.47	37.40 ±1.14	0.8868	0.0031
Primary PCI	1541/4142 (37.2%)	1575/4142 (38.0%)	0.4060	0.0169
P2Y12 inhibitors	3813/4142 (92.1%)	3842/4142 (92.8%)	0.2345	0.0264
GRACE risk score	170.68 ±35.39	169.90 ±36.56	0.2587	0.0215
In-hospital mortality	292/4142 (7.0%)	307 /4142 (7.4%)	0.5198	

Data are presented as mean±SD or frequencies; BMI: body mass index; ECG: electrocardiogram; SBP: systolic blood pressure; PVD: peripheral vascular disease; COPD: chronic obstructive pulmonary disease; Hb: hemoglobin; GRACE: the global registry of acute coronary events

PVD: peripheral vascular disease; COPD: chronic obstructive pulmonary disease;