

SUPPLEMENTARY DATA

Table S1. Diagnostic codes used to define inclusion criteria	
I20.0	Unstable angina
I20.1	Angina pectoris with documented spasm
I20.8	Other forms of angina pectoris
I20.9	Angina pectoris, unspecified
I21.0	Acute transmural myocardial infarction of anterior wall
I21.1	Acute transmural myocardial infarction of inferior wall
I21.2	Acute transmural myocardial infarction of other sites
I21.3	Acute transmural myocardial infarction of unspecified site
I21.4	Acute subendocardial myocardial infarction
I21.9	Acute myocardial infarction, unspecified
I22.0	Subsequent myocardial infarction of anterior wall
I22.1	Subsequent myocardial infarction of inferior wall
I22.8	Subsequent myocardial infarction of other sites
I22.9	Subsequent myocardial infarction of unspecified site
I24.0	Coronary thrombosis not resulting in myocardial infarction
I24.8	Other forms of acute ischaemic heart disease
I24.9	Acute ischaemic heart disease, unspecified
I25.4	Coronary artery aneurysm and dissection
I21.00	Anterior NSTEMI
I21.01	Anterior STEMI
I21.09	Anterior MI
I21.10	Inferior NSTEMI
I21.11	Inferior STEMI
I21.19	Inferior MI
I21.20	Other sites NSTEMI
I21.21	Other sites STEMI
I21.29	Other sites MI
I21.30	Acute transmural myocardial infarction of unspecified site NSTEMI
I21.31	Acute transmural myocardial infarction of unspecified site STEMI
I21.39	Acute transmural myocardial infarction of unspecified site no statement
410	Acute myocardial infarction
410.0, 410.0x	Acute myocardial infarction of anterolateral wall
410.1, 410.1x	Acute myocardial infarction of other anterior wall
410.2, 410.2x	Acute myocardial infarction of inferolateral wall
410.3, 410.3x	Acute myocardial infarction of inferoposterior wall
410.4, 410.4x	Acute myocardial infarction of other inferior wall
410.5, 410.5x	Acute myocardial infarction of other lateral wall
410.6, 410.6x	True posterior wall infarction
410.7, 410.7x	Subendocardial infarction
410.8, 410.8x	Acute myocardial infarction of other specified sites

410.9, 410.9x	Acute myocardial infarction of unspecified site
411	Other acute and subacute forms of ischemic heart disease
411.0	Postmyocardial infarction syndrome
411.1	Intermediate coronary syndrome
411.8, 411.8x	Other acute and subacute forms of ischemic heart disease
412	Other acute and subacute forms of ischemic heart disease
413	Angina pectoris
413.0	Angina decubitus
413.1	Prinzmetal angina
413.9	Other and unspecified angina pectoris
414	Other forms of chronic ischemic heart disease
414.0, 414.0x	Coronary atherosclerosis
414.1, 414.1x	Aneurysm and dissection of heart
414.2	Chronic total occlusion of coronary artery
414.3	Coronary atherosclerosis due to lipid rich plaque
414.4	Coronary atherosclerosis due to calcified coronary lesion
414.8	Other specified forms of chronic ischemic heart disease
414.9	Chronic ischemic heart disease, unspecified
996.03	Mechanical complication due to coronary bypass graft
V45.81	Aortocoronary bypass status
V45.82	Percutaneous transluminal coronary angioplasty status

Table S2. Diagnostic codes used to define incident heart failure	
398.91	Rheumatic heart failure (congestive)
402.01	Malignant hypertensive heart disease with heart failure
402.11	Benign hypertensive heart disease with heart failure
402.91	Unspecified hypertensive heart disease with heart failure
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease
428.xx	Heart failure
4280	Congestive heart failure, unspecified
4280	Congestive heart failure, unspecified
4281	Left heart failure
42820	Systolic heart failure, unspecified
42821	Acute systolic heart failure
42822	Chronic systolic heart failure
42823	Acute on chronic systolic heart failure
42830	Diastolic heart failure, unspecified
42831	Acute diastolic heart failure
42832	Chronic diastolic heart failure
42833	Acute on chronic diastolic heart failure
42840	Combined systolic and diastolic heart failure, unspecified
42841	Acute combined systolic and diastolic heart failure
42842	Chronic combined systolic and diastolic heart failure
42843	Acute on chronic combined systolic and diastolic heart failure
4289	Heart failure, unspecified
I0981	Rheumatic heart failure
I110	Hypertensive heart disease with heart failure
I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
I501	Left ventricular failure, unspecified
I5020	Unspecified systolic (congestive) heart failure

I5021	Acute systolic (congestive) heart failure
I5022	Chronic systolic (congestive) heart failure
I5023	Acute on chronic systolic (congestive) heart failure
I5030	Unspecified diastolic (congestive) heart failure
I5031	Acute diastolic (congestive) heart failure
I5032	Chronic diastolic (congestive) heart failure
I5033	Acute on chronic diastolic (congestive) heart failure
I5040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
I50810	Right heart failure, unspecified
I50811	Acute right heart failure
I50812	Chronic right heart failure
I50813	Acute on chronic right heart failure
I50814	Right heart failure due to left heart failure
I5082	Biventricular heart failure
I5083	High output heart failure
I5084	End stage heart failure
I5089	Other heart failure
I509	Heart failure, unspecified
I97130	Postprocedural heart failure following cardiac surgery
I97131	Postprocedural heart failure following other surgery
O29121	Cardiac failure due to anaesthesia during pregnancy, first trimester
O29122	Cardiac failure due to anaesthesia during pregnancy, second trimester
O29123	Cardiac failure due to anaesthesia during pregnancy, third trimester
O29129	Cardiac failure due to anaesthesia during pregnancy, unspecified trimester
Z95811	Presence of heart assist device
Z95812	Presence of fully implantable artificial heart

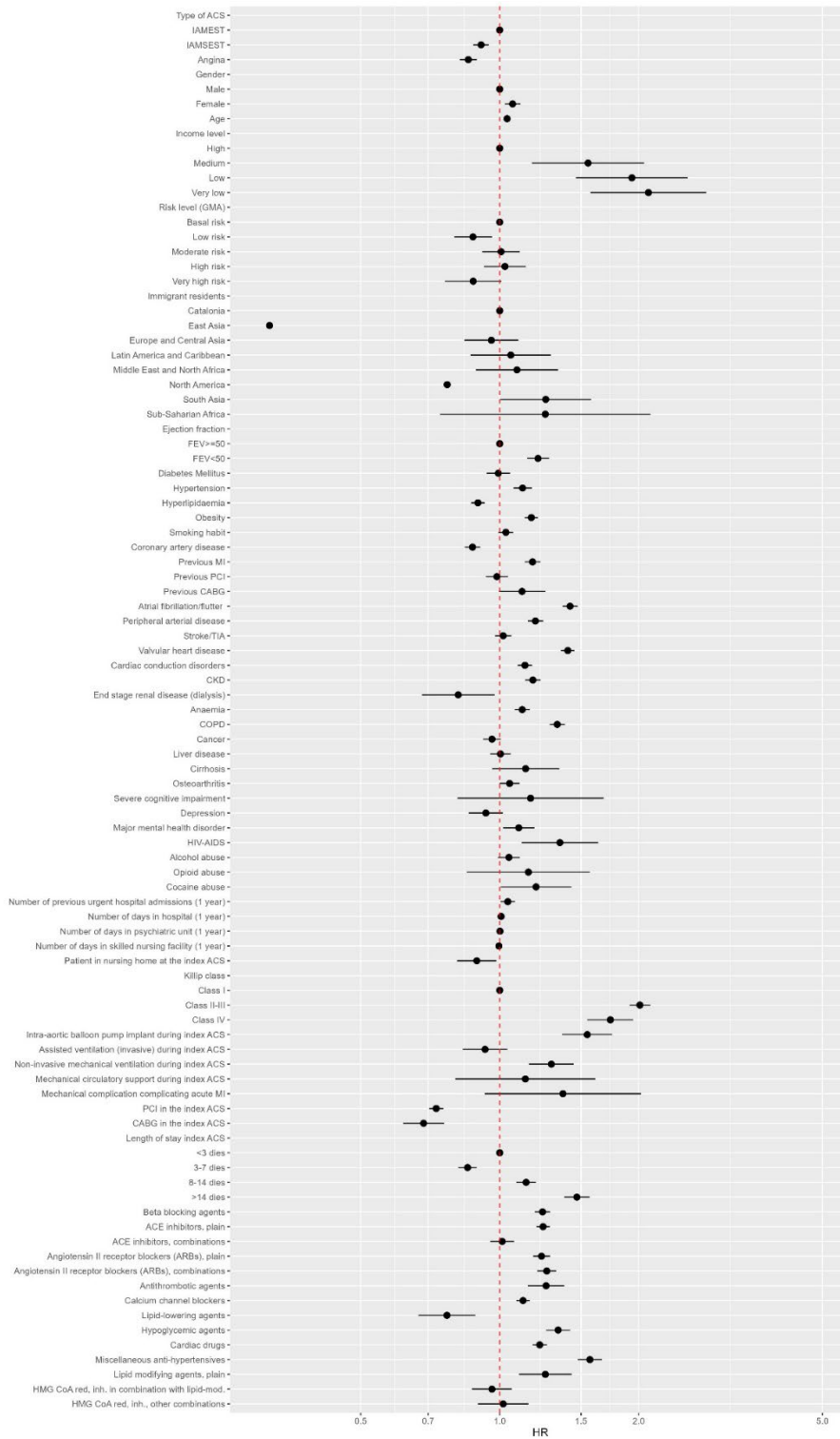


Figure S1. Forest plot of the multivariate Fine and Gray regression analysis evaluating the predictors of incident heart failure after acute coronary syndrome. Competing risk between death and incident HF were considered in these analyses. HR, hazard ratio; NSTEMI, non-ST-elevation myocardial infarction; STEMI, ST-elevation myocardial infarction.

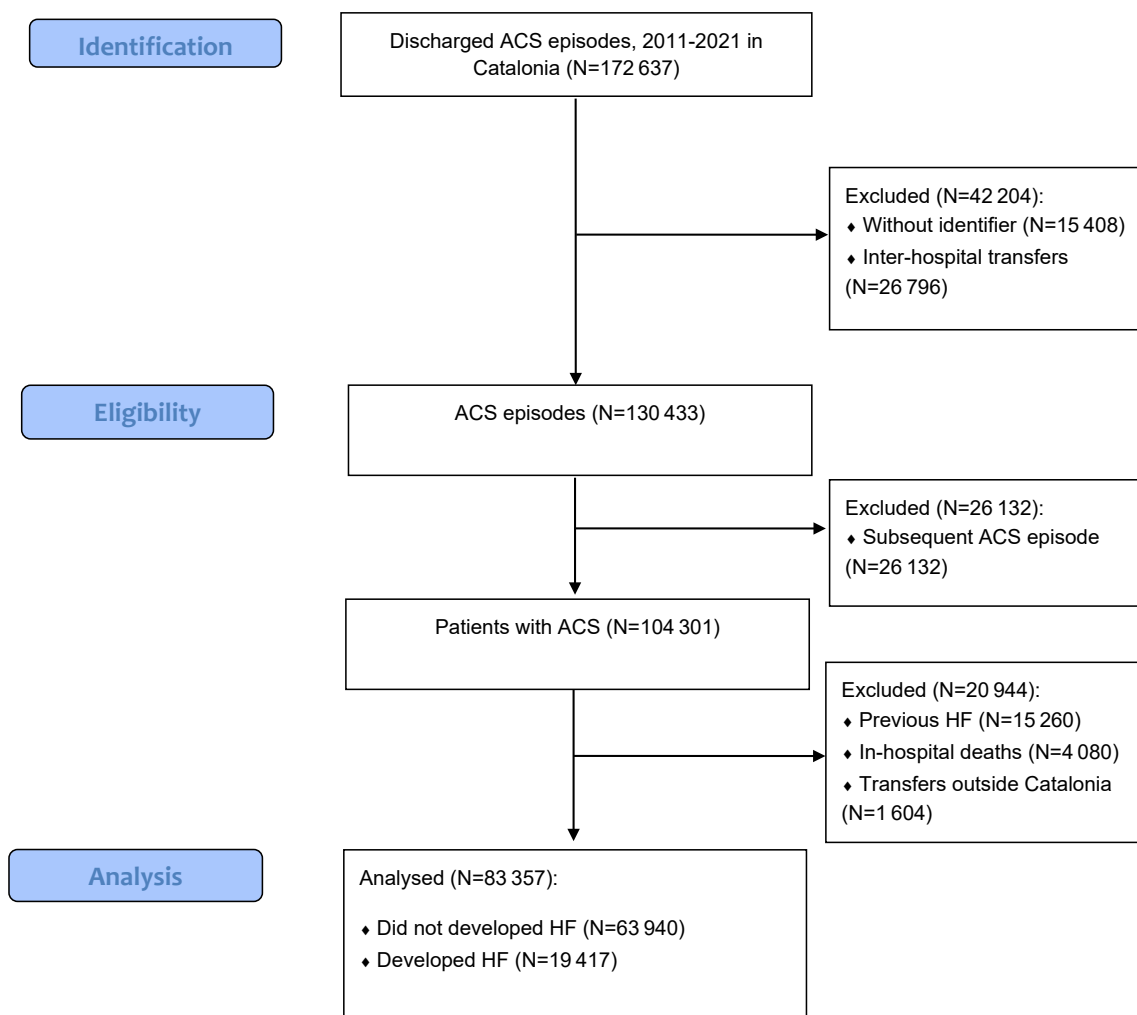


Figure S2. Flow chart of patient selection. ACS, acute coronary syndromes; HF, heart failure; MI, myocardial infarction.

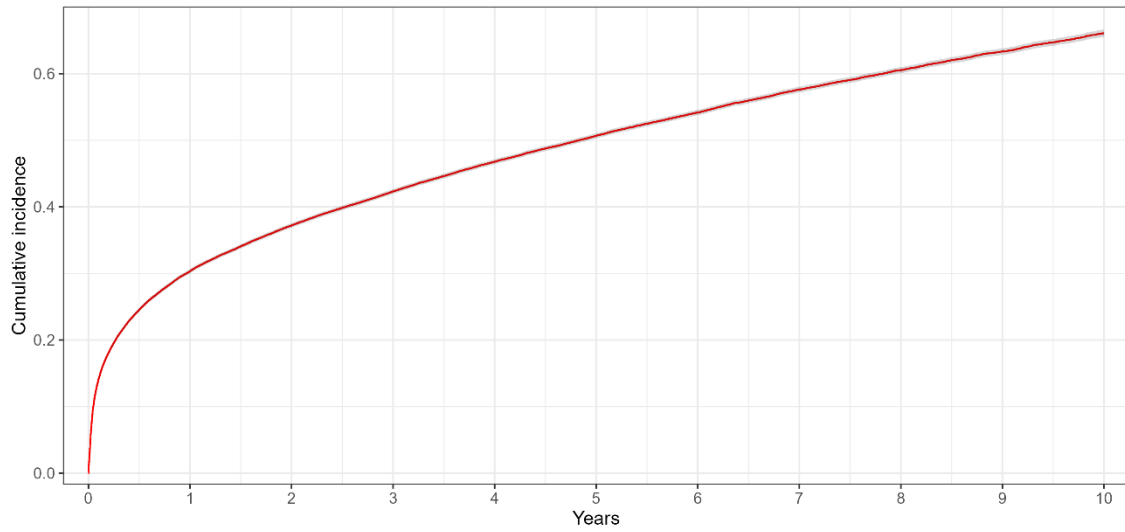


Figure S3. Kaplan-Meier incidence of a 5-point MACE in the whole cohort. MACEm major adverse cardiovascular event (5-point: all-cause death, recurrent ACS, new coronary revascularisation [either surgical or percutaneous], stroke, and incident heart failure).