Supplementary Table A1. List and descriptions of patient factors used in risk-adjustment

regression models

Factor	Codes and/or description (ICD10 unless
	specified)
Age	Categorised at 18-44 then five-year bands
	from 45-49 to 85-89, then 90+
Sex	
Carstairs deprivation fifth	Measure of socio-economic status of small
	geographical area of residence
CABG in year before or during index HF	OPCS codes K40, K41, K42, K43, K44, K45,
admission	К46
PTCA in year before or during index HF	OPCS codes K49, K50, K75
admission	
Implantable cardioverter defibrillator	OPCS codes K590, K591, K592, K593, K594,
implanted in year before or during index HF	К596, К598, К599
admission	
Pacemaker (not CRT) inserted in year before	OPCS codes K600, K601, K602, K603, K605,
or during index HF admission	K606, K607, K608, K609, K610, K611,K612,
	K613, K615, K616, K617, K618, K619
CRT inserted in year before or during index	OPCS codes K607, K617
HF admission	
OPD appointments missed in year before	
index HF admission	

OPD appointments attended in year before	
index HF admission	
Comorbidity flags, all defined using ICD10	All comorbidity flags were based on
codes:	information during the index admission or in
	any admission in previous year
Stroke	160, 161, 162, 163, 164
Pneumonia	J12, J13, J14, J15, J16, J17, J18
Ischaemic heart disease	120, 121, 122, 123, 125
Dementia	F00, F01, F02, F051
Arrhythmias	1441, 1442, 1443, 1456, 1459, 147, 148, 149,
	R000, R001, R008, T821, Z450, Z950
Heart valve disorders	A520, 105, 106, 107, 108, 1091, 1098, 134, 135,
	136, 137, 138, 139, Q230, Q231, Q232, Q233,
	Z952, Z953, Z954
Peripheral vascular disease	170, 171, 1731, 1738, 1739, 1771, 1790, 1792,
	K551, K558, K559, Z958, Z959
Hypertension	10, 11, 12, 13, 15
Chronic lung diseases	I278, I279, J40, J41, J42, J43, J44, J45, J46,
	J47, J60, J61, J62, J63, J64, J65, J66, J67,
	J684, J701, J703
Diabetes	E10, E11, E12, E13, E14
Renal disease	I120, I131, N18, N19, N250, Z490, Z491,
	Z492, Z940, Z992

Obesity	E66
Any mental health condition (except	F06, F07, F09, then rest of F chapter from
dementia)	F20 onwards
Living alone	Z602