

Supplementary file 1-1. Multivariable hazards ratio for all-cause mortality associated with atrial fibrillation, according to ejection fraction group.

Variable	HF _r EF		HF _{mr} EF		HF _p EF	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Atrial fibrillation	1.058 (0.926–1.207)	0.408	1.098 (0.866–1.392)	0.441	1.224 (1.024–1.463)	0.026
Sex, male	1.200 (1.043–1.381)	0.011	1.484 (1.142–1.929)	0.003	1.263 (1.013–1.575)	0.038
Age, ≥80 yrs	1.828 (1.607–2.079)	<0.001	1.995 (1.592–2.500)	<0.001	2.124 (1.784–2.530)	<0.001
NYHA functional class						
III vs II	1.327 (1.094–1.609)	0.004	0.819 (0.584–1.149)	0.248	1.382 (1.061–1.800)	0.016
IV vs II	1.490 (1.234–1.798)	<0.001	0.977 (0.705–1.355)	0.889	1.537 (1.185–1.992)	0.001
Hypertension	1.294 (1.145–1.464)	<0.001	0.908 (0.711–1.160)	0.441	1.162 (0.954–1.416)	0.136
Diabetes mellitus	1.223 (1.081–1.384)	0.001	1.036 (0.808–1.327)	0.782	1.217 (1.004–1.475)	0.045
Ischemic heart disease	1.697 (1.482–1.944)	<0.001	1.227 (0.938–1.605)	0.135	1.220 (0.995–1.494)	0.056
Renal failure	1.412 (1.210–1.648)	<0.001	1.969 (1.446–2.682)	<0.001	1.553 (1.216–1.984)	<0.001
Cancer	1.365 (1.147–1.625)	<0.001	1.254 (0.889–1.768)	0.198	1.381 (1.048–1.819)	0.022
Prior stroke	1.355 (1.184–1.550)	<0.001	1.151 (0.883–1.501)	0.299	1.494 (1.215–1.836)	<0.001
Heart rate	0.997 (0.995–1.000)	0.021	0.999 (0.994–1.003)	0.511	1.000 (0.997–1.004)	0.810
Systolic blood pressure	0.998 (0.995–1.000)	0.094	0.997 (0.992–1.002)	0.197	0.998 (0.994–1.002)	0.257
diastolic blood pressure	0.995 (0.991–1.000)	0.047	1.002 (0.994–1.011)	0.586	1.003 (0.997–1.009)	0.338
Body mass index	0.941 (0.926–0.957)	<0.001	0.948 (0.918–0.979)	0.001	0.945 (0.924–0.966)	<0.001
White blood cells	1.015 (1.001–1.029)	0.030	1.030 (1.004–1.056)	0.025	1.003 (0.979–1.027)	0.812
HbA1c	0.979 (0.962–0.996)	0.013	1.000 (0.966–1.034)	0.991	0.981 (0.954–1.009)	0.184
Potassium	0.978 (0.906–1.056)	0.565	0.889 (0.763–1.035)	0.129	1.066 (0.941–1.207)	0.314
Sodium ≥135 mmol/L	0.809 (0.715–0.915)	0.001	0.763 (0.600–0.969)	0.026	0.855 (0.708–1.032)	0.103
Hemoglobin ≥12 g/dL	0.760 (0.674–0.856)	<0.001	0.629 (0.493–0.802)	<0.001	0.663 (0.557–0.790)	<0.001
Blood urea nitrogen ≥26 mg/dL	1.194 (1.049–1.360)	0.007	1.107 (0.860–1.423)	0.431	1.421 (1.163–1.737)	0.001
Creatinine ≥2 mg/dL	0.957 (0.799–1.147)	0.637	1.044 (0.738–1.477)	0.808	0.765 (0.564–1.037)	0.085
BNP >900 pg/mL or NTproBNP >5000 pg/mL	1.371 (1.212–1.551)	<0.001	1.251 (0.996–1.572)	0.054	1.360 (1.138–1.626)	0.001
ACEI or ARB	0.722 (0.634–0.822)	<0.001	0.968 (0.769–1.219)	0.785	0.884 (0.745–1.049)	0.159
Beta-blockers	0.748 (0.669–0.837)	<0.001	0.862 (0.691–1.076)	0.189	0.921 (0.779–1.088)	0.332
Aldosterone antagonist	0.995 (0.887–1.117)	0.936	1.201 (0.971–1.487)	0.092	0.984 (0.833–1.161)	0.846
Nitrate	0.926 (0.826–1.039)	0.190	1.029 (0.827–1.280)	0.801	0.914 (0.772–1.081)	0.292
Diuretic	1.178 (0.894–1.552)	0.245	1.579 (0.988–2.524)	0.056	1.052 (0.740–1.496)	0.777

Anticoagulant	1.029 (0.917–1.154)	0.627	1.019 (0.818–1.271)	0.864	0.814 (0.686–0.966)	0.018
Antiplatelet	0.936 (0.816–1.074)	0.348	0.833 (0.644–1.078)	0.164	0.866 (0.722–1.039)	0.121
Statin	0.851 (0.755–0.959)	0.008	0.689 (0.541–0.878)	0.003	0.747 (0.618–0.902)	0.002
Smoking status						
Ex vs current	1.211 (1.023–1.433)	0.026	1.257 (0.841–1.878)	0.265	1.389 (0.999–1.930)	0.051
Never vs current	1.037 (0.868–1.239)	0.690	1.027 (0.697–1.515)	0.892	1.166 (0.835–1.628)	0.366
Alcohol consumption						
Social vs heavy	1.043 (0.810–1.342)	0.746	2.321 (1.180–4.567)	0.015	0.936 (0.638–1.371)	0.733
Never vs heavy	1.354 (1.043–1.757)	0.023	3.322 (1.693–6.519)	<0.001	1.084 (0.736–1.598)	0.683

ACEI, Angiotensin-converting enzyme inhibitor; ARB, Angiotensin receptor blockers; BNP, brain natriuretic peptide; NT-proBNP, N-terminal prohormone of brain natriuretic peptide; EF, ejection fraction; HFrEF, heart failure with reduced ejection fraction; HFmrEF, heart failure with mid-range ejection fraction; HFpEF, heart failure with preserved ejection fraction; HR, hazard ratio; NYHA, New York Heart Association.