

Supplementary file 1-2. Multivariable hazards ratio for the composite of all-cause mortality and rehospitalization associated with atrial fibrillation, according to ejection fraction groups.

Variable	HFrEF		HFmrEF		HFpEF	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Atrial fibrillation	0.967 (0.871–1.074)	0.535	1.135 (0.931–1.382)	0.210	1.027 (0.884–1.194)	0.724
Sex, male	1.082 (0.965–1.212)	0.176	0.966 (0.777–1.201)	0.756	1.147 (0.959–1.371)	0.134
Age, ≥80 yrs	1.233 (1.101–1.380)	<0.001	1.355 (1.114–1.647)	0.002	1.214 (1.048–1.408)	0.010
NYHA functional class						
III vs II	1.378 (1.194–1.591)	<0.001	0.931 (0.714–1.215)	0.599	1.369 (1.122–1.670)	0.002
IV vs II	1.414 (1.227–1.630)	<0.001	1.071 (0.824–1.392)	0.607	1.404 (1.152–1.711)	0.001
Hypertension	1.160 (1.055–1.275)	0.002	0.998 (0.814–1.224)	0.988	0.983 (0.840–1.150)	0.829
Diabetes mellitus	1.153 (1.042–1.276)	0.006	1.000 (0.813–1.230)	1.000	1.225 (1.043–1.439)	0.013
Ischemic heart disease	1.285 (1.154–1.431)	<0.001	1.611 (1.275–2.034)	<0.001	1.190 (1.002–1.413)	0.048
Renal failure	1.404 (1.234–1.598)	<0.001	1.510 (1.153–1.978)	0.003	1.331 (1.076–1.646)	0.008
Cancer	1.224 (1.058–1.416)	0.007	1.339 (1.006–1.781)	0.045	1.420 (1.121–1.799)	0.004
Prior stroke	1.087 (0.966–1.222)	0.166	1.224 (0.985–1.520)	0.068	1.320 (1.104–1.579)	0.002
Heart rate	0.999 (0.997–1.000)	0.142	0.998 (0.994–1.002)	0.266	1.000 (0.997–1.003)	0.920
Systolic blood pressure	1.001 (0.998–1.003)	0.502	1.000 (0.996–1.004)	0.840	1.000 (0.997–1.004)	0.804
diastolic blood pressure	0.993 (0.990–0.997)	<0.001	1.000 (0.993–1.006)	0.907	1.001 (0.995–1.006)	0.816
Body mass index	0.976 (0.964–0.988)	<0.001	0.998 (0.975–1.022)	0.882	0.986 (0.969–1.003)	0.105
White blood cells	0.996 (0.985–1.008)	0.536	1.004 (0.983–1.026)	0.711	0.975 (0.955–0.996)	0.019
HbA1c	0.983 (0.970–0.997)	0.016	0.994 (0.967–1.022)	0.680	0.985 (0.963–1.008)	0.201
Potassium	1.004 (0.942–1.071)	0.897	0.876 (0.769–0.997)	0.045	1.101 (0.993–1.220)	0.068
Sodium ≥135 mmol/L	0.884 (0.797–0.980)	0.019	0.828 (0.671–1.022)	0.080	0.950 (0.806–1.120)	0.541
Hemoglobin ≥12 g/dL	0.879 (0.798–0.970)	0.010	0.837 (0.691–1.014)	0.069	0.829 (0.719–0.955)	0.010
Blood urea nitrogen ≥26 mg/dL	1.143 (1.029–1.269)	0.013	1.110 (0.894–1.377)	0.345	1.342 (1.128–1.598)	0.001
Creatinine ≥2 mg/dL	1.035 (0.884–1.211)	0.670	1.215 (0.885–1.667)	0.229	0.859 (0.649–1.135)	0.284
BNP >900 pg/mL or NTproBNP >5000 pg/mL	1.123 (1.022–1.234)	0.015	1.208 (1.005–1.452)	0.044	1.135 (0.974–1.322)	0.105
ACEI or ARB	0.736 (0.660–0.821)	<0.001	0.929 (0.770–1.121)	0.442	0.885 (0.770–1.018)	0.086
Beta-blockers	0.792 (0.723–0.868)	<0.001	0.806 (0.667–0.972)	0.024	0.877 (0.765–1.005)	0.058
Aldosterone antagonist	1.075 (0.979–1.179)	0.128	1.012 (0.852–1.201)	0.894	1.092 (0.951–1.253)	0.214
Nitrate	0.948 (0.867–1.038)	0.251	0.971 (0.812–1.161)	0.745	1.005 (0.875–1.154)	0.944

Diuretic	1.030 (0.832–1.275)	0.788	1.284 (0.923–1.787)	0.138	0.869 (0.672–1.125)	0.287
Anticoagulant	1.034 (0.943–1.135)	0.475	1.084 (0.902–1.303)	0.389	0.952 (0.826–1.096)	0.491
Antiplatelet	0.984 (0.884–1.096)	0.773	0.846 (0.682–1.048)	0.125	0.936 (0.806–1.087)	0.385
Statin	0.933 (0.849–1.027)	0.158	0.755 (0.616–0.926)	0.007	0.862 (0.734–1.011)	0.068
Smoking status						
Ex vs current	1.075 (0.945–1.224)	0.270	1.244 (0.899–1.720)	0.187	1.226 (0.940–1.598)	0.133
Never vs current	1.075 (0.939–1.232)	0.295	1.106 (0.811–1.510)	0.525	1.291 (1.000–1.668)	0.050
Alcohol consumption						
Social vs heavy	1.019 (0.854–1.214)	0.838	1.505 (0.956–2.371)	0.078	1.265 (0.920–1.739)	0.148
Never vs heavy	1.079 (0.896–1.301)	0.423	1.615 (1.027–2.538)	0.038	1.267 (0.921–1.743)	0.146

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.