

Supplementary file 1-4. Multivariable hazards ratio for stroke associated with atrial fibrillation, according to ejection fraction groups

| 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 | 1.534 (1.028–2.290) | 0.036 | 1.039 (0.567–1.906) | 0.901 | 1.898 (1.125–3.203) | 0.016 |
| Sex, male | 0.880 (0.546–1.419) | 0.600 | 0.615 (0.294–1.285) | 0.196 | 0.935 (0.485–1.804) | 0.842 |
| Age, ≥80 yrs | 0.962 (0.591–1.566) | 0.877 | 0.933 (0.503–1.733) | 0.827 | 1.049 (0.630–1.747) | 0.855 |
| NYHA functional class | | | | | | |
| III vs II | 1.051 (0.582–1.899) | 0.869 | 1.062 (0.429–2.629) | 0.896 | 0.982 (0.523–1.846) | 0.956 |
| IV vs II | 1.216 (0.682–2.168) | 0.508 | 1.484 (0.616–3.576) | 0.379 | 0.887 (0.471–1.672) | 0.711 |
| Hypertension | 1.138 (0.769–1.684) | 0.517 | 1.150 (0.616–2.147) | 0.661 | 1.366 (0.780–2.394) | 0.275 |
| Diabetes mellitus | 1.161 (0.772–1.744) | 0.474 | 1.353 (0.725–2.527) | 0.342 | 0.629 (0.350–1.131) | 0.122 |
| Ischemic heart disease | 1.393 (0.905–2.144) | 0.132 | 0.897 (0.448–1.798) | 0.760 | 0.947 (0.536–1.671) | 0.850 |
| Renal failure | 1.576 (0.964–2.576) | 0.070 | 0.844 (0.337–2.117) | 0.718 | 0.984 (0.429–2.256) | 0.969 |
| Cancer | 1.668 (0.978–2.846) | 0.060 | | | 1.935 (0.899–4.165) | 0.092 |
| Prior stroke | 1.873 (1.238–2.834) | 0.003 | 1.925 (1.090–3.400) | 0.024 | 1.652 (0.948–2.879) | 0.076 |
| Heart rate | 0.999 (0.992–1.006) | 0.783 | 0.998 (0.987–1.009) | 0.701 | 1.006 (0.996–1.015) | 0.256 |
| Systolic blood pressure | 1.008 (0.999–1.017) | 0.069 | 1.004 (0.991–1.016) | 0.571 | 1.007 (0.997–1.018) | 0.174 |
| diastolic blood pressure | 0.990 (0.976–1.003) | 0.136 | 1.010 (0.991–1.030) | 0.298 | 0.997 (0.980–1.015) | 0.763 |
| Body mass index | 0.981 (0.932–1.031) | 0.445 | 1.010 (0.943–1.082) | 0.772 | 0.956 (0.898–1.018) | 0.158 |
| White blood cells | 1.029 (0.986–1.075) | 0.189 | 1.002 (0.938–1.072) | 0.942 | 0.968 (0.895–1.047) | 0.417 |
| HbA1c | 0.992 (0.939–1.048) | 0.773 | 0.957 (0.882–1.038) | 0.287 | 1.075 (0.993–1.165) | 0.073 |
| Potassium | 1.193 (0.913–1.560) | 0.196 | 0.948 (0.632–1.421) | 0.796 | 0.981 (0.668–1.442) | 0.923 |
| Sodium ≥135 mmol/L | 0.891 (0.578–1.371) | 0.599 | 1.045 (0.525–2.084) | 0.900 | 0.980 (0.518–1.853) | 0.951 |
| Hemoglobin ≥12 g/dL | 1.262 (0.826–1.927) | 0.282 | 0.848 (0.468–1.538) | 0.588 | 0.833 (0.516–1.345) | 0.455 |
| Blood urea nitrogen ≥26 mg/dL | 0.994 (0.651–1.517) | 0.978 | 1.438 (0.747–2.768) | 0.277 | 0.923 (0.494–1.726) | 0.802 |
| Creatinine ≥2 mg/dL | 0.610 (0.315–1.182) | 0.143 | 1.556 (0.558–4.342) | 0.398 | 0.816 (0.251–2.656) | 0.735 |
| BNP >900 pg/mL or NTproBNP >5000 pg/mL | 0.957 (0.651–1.406) | 0.823 | 0.756 (0.430–1.328) | 0.330 | 0.732 (0.419–1.276) | 0.271 |
| ACEI or ARB | 1.013 (0.623–1.648) | 0.959 | 0.807 (0.455–1.429) | 0.462 | 0.760 (0.471–1.225) | 0.260 |
| Beta-blockers | 1.057 (0.716–1.559) | 0.781 | 1.009 (0.567–1.796) | 0.974 | 1.167 (0.728–1.871) | 0.521 |
| Aldosterone antagonist | 1.133 (0.775–1.656) | 0.520 | 1.452 (0.843–2.500) | 0.179 | 0.915 (0.573–1.460) | 0.710 |
| Nitrate | 1.019 (0.702–1.478) | 0.922 | 1.023 (0.592–1.767) | 0.936 | 1.350 (0.829–2.199) | 0.227 |
| Diuretic | 1.652 (0.508–5.369) | 0.404 | 0.814 (0.297–2.229) | 0.689 | 0.806 (0.340–1.909) | 0.624 |

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|----------------------------|---------------------|-------|---------------------|-------|----------------------|-------|
| Anticoagulant | 1.363 (0.910–2.041) | 0.133 | 1.977 (1.048–3.731) | 0.035 | 1.024 (0.633–1.657) | 0.921 |
| Antiplatelet | 0.821 (0.528–1.275) | 0.380 | 0.843 (0.432–1.645) | 0.617 | 1.298 (0.778–2.167) | 0.318 |
| Statin | 1.089 (0.731–1.622) | 0.676 | 1.242 (0.673–2.290) | 0.488 | 1.288 (0.766–2.164) | 0.340 |
| Smoking status | | | | | | |
| Ex vs current | 1.225 (0.740–2.027) | 0.429 | 1.165 (0.498–2.725) | 0.725 | 1.203 (0.499–2.902) | 0.680 |
| Never vs current | 0.868 (0.498–1.512) | 0.617 | 0.663 (0.279–1.578) | 0.353 | 0.695 (0.284–1.700) | 0.425 |
| Alcohol consumption | | | | | | |
| Social vs heavy | 1.159 (0.561–2.393) | 0.691 | 0.409 (0.173–0.965) | 0.041 | 2.369 (0.543–10.336) | 0.251 |
| Never vs heavy | 1.229 (0.569–2.652) | 0.599 | 0.371 (0.153–0.897) | 0.028 | 3.339 (0.751–14.853) | 0.113 |

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.