**Supplementary Table 4. Univariate Cox analysis for all-cause mortality, hospitalization and stroke events between AF patients and non-AF patients**

| Variable            | All-cause mortality | Hospitalization | Ischemic stroke | Hemorrhagic stroke |
|---------------------|---------------------|-----------------|----------------|-------------------|
|                     | HR (95% CI)         | P value         | HR (95% CI)    | P value           | HR (95% CI)       | P value |
| Age                 | 1.054 (1.052–1.056) | < 0.001         | 1.017 (1.015–1.018) | < 0.001   | 1.048 (1.043–1.053) | < 0.001 | 1.017 (1.011–1.023) | < 0.001 |
| Male (vs. female)   | 1.108 (1.057–1.162) | < 0.001         | 0.961 (0.933–0.989) | 0.008    | 1.082 (0.974–1.203) | 0.142   | 0.907 (0.781–1.054) | 0.204   |
| Dialysis vintage    | 0.989 (0.984–0.994) | < 0.001         | 0.990 (0.987–0.993) | < 0.001   | 0.972 (0.960–0.984) | < 0.001 | 0.986 (0.969–1.002) | 0.095   |
| BMI                 | 0.976 (0.969–0.983) | < 0.001         | 1.010 (1.005–1.014) | < 0.001   | 1.006 (0.991–1.022) | 0.427   | 0.939 (0.916–0.962) | < 0.001 |
| SBP (pre-HD)        | 1.004 (1.003–1.006) | < 0.001         | 1.003 (1.003–1.004) | < 0.001   | 1.013 (1.010–1.016) | < 0.001 | 1.014 (1.010–1.019) | < 0.001 |
| DBP (pre-HD)        | 0.987 (0.985–0.989) | < 0.001         | 0.993 (0.992–0.995) | < 0.001   | 0.993 (0.988–0.999) | 0.018   | 1.017 (1.009–1.026) | < 0.001 |
| CCI                 | 1.163 (1.149–1.177) | < 0.001         | 1.138 (1.128–1.147) | < 0.001   | 1.195 (1.163–1.228) | < 0.001 | 1.116 (1.070–1.164) | < 0.001 |
| Hb                  | 0.869 (0.845–0.894) | < 0.001         | 0.928 (0.912–0.944) | < 0.001   | 0.985 (0.926–1.047) | 0.628   | 0.881 (0.805–0.964) | 0.006   |
| Albumin             | 0.395 (0.370–0.422) | < 0.001         | 0.628 (0.601–0.655) | < 0.001   | 0.598 (0.513–0.696) | < 0.001 | 0.796 (0.636–0.997) | 0.047   |
| Creatinine          | 0.872 (0.864–0.880) | < 0.001         | 0.948 (0.943–0.953) | < 0.001   | 0.896 (0.879–0.913) | < 0.001 | 0.931 (0.906–0.957) | < 0.001 |
| Phosphorus          | 0.859 (0.843–0.874) | < 0.001         | 0.963 (0.953–0.973) | < 0.001   | 0.860 (0.826–0.895) | < 0.001 | 0.982 (0.931–1.037) | 0.518   |
| Total calcium       | 0.939 (0.915–0.963) | < 0.001         | 0.966 (0.951–0.981) | < 0.001   | 0.960 (0.906–1.016) | 0.158   | 0.958 (0.882–1.041) | 0.313   |
| URR                 | 0.998 (0.994–1.002) | 0.361           | 0.997 (0.994–0.999) | 0.009    | 1.000 (0.991–1.009) | 0.942   | 1.004 (0.991–1.017) | 0.528   |
| AF (vs. non-AF)     | 1.594 (1.436–1.770) | < 0.001         | 1.458 (1.350–1.575) | < 0.001   | 1.472 (1.142–1.899) | 0.003   | 1.576 (1.105–2.247) | 0.012   |

AF, atrial fibrillation and atrial flutter; BMI, body mass index; CCI, Charlson comorbidity index; CI, confidence interval; DBP, diastolic blood pressure; HD, hemodialysis; HR, hazard ratio; SBP, systolic blood pressure; URR, urea reduction ratio.