**Supplementary Table 2: Risk factors associated with major bleeding in AF patients with or without CKD.**

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| --- | --- | --- | --- | --- | --- |
| **Variable** | **Univariate Analysis** | |  | **Multivariate Analysis** | |
| **HR (95% CI)** | ***P*** |  | **HR (95% CI)** | ***P*** |
| Sex, female | 1.09(0.84–1.41) | 0.511 |  | NA | NA |
| Age, per year | 1.02(1.01–1.03) | 0.007 |  | 1.01(1.00–1.03) | 0.109 |
| AF type, persistent AF | 1.57(1.21–2.03) | 0.001 |  | 1.33(1.01–1.75) | 0.043 |
| AF duration, per year | 1.02(1.00–1.03) | 0.083 |  | 1.00(0.99–1.02) | 0.696 |
| BMI > 28kg/m2 | 1.07(0.77–1.48) | 0.688 |  | 1.04(0.74–1.45) | 0.829 |
| Mild CKD | 1.28(0.97–1.67) | 0.076 |  | 1.11(0.84–1.47) | 0.476 |
| Smoking (any) | 0.93(0.70–1.22) | 0.587 |  | 0.95(0.67–1.35) | 0.775 |
| Alcohol consumption (any) | 0.92(0.69–1.22) | 0.555 |  | 1.02(1.71–1.48) | 0.902 |
| Heart failure | 1.02(0.79–1.33) | 0.863 |  | 0.89(0.68–1.16) | 0.387 |
| Hypertension | 1.46(1.07–1.99) | 0.018 |  | 1.27(0.92–1.75) | 0.153 |
| Diabetes mellitus | 1.04(0.78–1.39) | 0.790 |  | 0.98(0.72–1.31) | 0.899 |
| Hyperlipidemia | 1.15(0.89–1.49) | 0.291 |  | NA | NA |
| Thromboembolism | 1.30(0.96–1.75) | 0.090 |  | 1.07(0.79–1.45) | 0.664 |
| Vascular disease | 1.15(0.85–1.56) | 0.369 |  | NA | NA |
| Previous bleeding | 2.48(1.64–3.76) | <.0001 |  | 2.39(1.57–3.63) | <.0001 |
| OAC (any) | 1.92(1.48–2.49) | <.0001 |  | 2.13(1.46–3.11) | <.0001 |
| Antiplatelet | 0.74(0.57–0.96) | 0.024 |  | 1.30(0.89–1.89) | 0.172 |
| Completed high school | 1.18(0.89–1.59) | 0.254 |  | NA | NA |
| Health insurance (any) | 0.87(0.52–1.47) | 0.611 |  | NA | NA |

AF: Atrial fibrillation; BMI: Body mass index; CI: Conﬁdence interval; CKD: Chronic kidney disease; HR: Hazard ratio; NA: Not available; OAC: Oral anticoagulant.