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| **Table S2.** Sub-analysis: mixed effects Cox proportional hazard model estimating the adjusted hazard ratios with 95% confidence interval (CI) of stroke mortality in hospital, 2011 – 2014 |
|  | Model 1 | Model 2 |
|  | Hazard ratio [95% CI] | Hazard ratio [95% CI] |
| Age (measured in 10-year) | 2.22 [2.11, 2.35] \*\*\* | 2.22 [2.11, 2.34]\*\*\* |
| Male (female as referent) | 1.44 [1.29, 1.60] \*\*\* | 1.61 [1.40, 1.86]\*\*\* |
| Receiving social security assistance | 1.44 [1.27, 1.63] \*\*\* | 1.44 [1.27, 1.64]\*\*\* |
| Prior stroke | 2.17 [1.78, 2.65] \*\*\* | 2.14 [1.12, 4.08]\* |
| Lipid disorder | 0.71 [0.60, 0.84] \*\*\* | 1.28 [0.77, 2.11] |
| Ischemic heart disease | 1.43 [1.12, 1.84] \* | 1.17 [0.53, 2.56] |
| Atrial fibrillation | 3.88 [2.99, 5.03] \*\*\* | 9.87 [4.53, 21.51]\*\*\* |
| Diabetes | 1.01 [0.89, 1.14] | 1.09 [0.74, 1.60] |
| Tobacco abuse | 1.04 [0.58, 1.84] | 11.35 [1.07, 120.73]\* |
| Alcohol abuse | 2.46 [0.61, 9.93] | - |
| Statin prescription | 0.72 [0.58, 0.89] \* | 1.20 [0.63, 2.28] |
| Depression  | 1.12 [0.78, 1.59] | 0.94 [0.33, 2.71] |
| Interaction with male sex: |  |  |
|  Male (female as referent) **×** Prior stroke |  | 1.01 [0.68, 1.50] |
|  Male (female as referent) **×** Lipid disorder |  | 0.65 [0.46, 0.93]\* |
|  Male (female as referent) **×** Ischemic heart disease |  | 1.15 [0.70, 1.89] |
|  Male (female as referent) **×** Atrial fibrillation |  | 0.52 [0.31, 0.89]\* |
|  Male (female as referent) **×** Diabetes |  | 0.95 [0.74, 1.21] |
|  Male (female as referent) **×** Tobacco abuse |  | 0.27 [0.07, 1.02] |
|  Male (female as referent) **×** Alcohol abuse |  | - |
|  Male (female as referent) **×** Statin prescription |  | 0.70 [0.46, 1.08] |
|  Male (female as referent) **×** Depression |  | 1.13 [0.54, 2.37] |
| *Note.* Estimates for alcohol abuse and its interaction with male sex in Model 2 omitted due to extremely wide confidence intervals. *\* P* ≤ 0.05, \*\*\* *P* ≤ 0.001*.*  |