**Supplemental material**

e-Figure 1 – Frequency distribution of serum troponin level

e-Table 1 – Baseline differences in those with and without missing troponin level

e-Table 2 - Association between admission National Institutes of Health Stroke Scale (NIHSS) and serum troponin level in patients with acute stroke.

e-Table 3 – Evaluation of modifying effect of sex and stroke type on the association between stroke severity and serum troponin.



**e-Table 1**. – Baseline differences in those with and without missing troponin level

|  |  |  |  |
| --- | --- | --- | --- |
|  | Missing Troponin  n = 15 (6.9%) | Not missing Troponin  n = 203 (93.1%) | P value |
| Median age, years | 79 (72-85) | 76 (66-85) | 0.71 |
| Female | 6 (40.0) | 100 (49.3) | 0.49 |
| Previous stroke or transient ischemic attack | 2 (13.3) | 61 (30.2) | 0.17 |
| Hypertension | 6 (40.0) | 159 (78.7) | 0.001 |
| Diabetes | 1 (6.7) | 45 (22.3) | 0.15 |
| Hyperlipidemia | 10 (66.7) | 111 (55.2) | 0.39 |
| Median serum creatinine, µmol/L | 92 (78-103) | 81 (68-102) | 0.31 |
| ST elevation on EKG | 0 (0) | 5 (2.46) | 0.54 |
| Congestive heart failure | 2 (13.3) | 33 (16.3) | 0.77 |
| Stroke type: Ischemic stroke | 12 (89.6) | 178 (87.7) | 0.39 |
| Median Admission NIHSS | 4 (1-16) | 6 (2-14) | 0.44 |

**e-Table 2.** Association between admission National Institutes of Health Stroke Scale (NIHSS) and serum troponin level in patients with acute stroke.

|  |  |  |
| --- | --- | --- |
|  | Serum troponin as a continuous variable\* | Serum troponin as binary variable$ |
|  | Incidence Risk Ratio  (95% confidence interval) | Risk Ratio (95% CI) |
| **Age- and sex-adjusted models** |  |  |
| NIHSS | 1.02 (1.01-1.04) | 1.03 (1.01-1.05) |
| Age | 1.02 (1.01-1.04) | 1.03 (1.02-1.04) |
| Female | 0.68 (0.51-0.90) | 0.71 (0.54-0.93) |
|  |  |  |
| **Multivariable-adjusted models** |  |  |
| NIHSS | 1.03 (1.01-1.05) | 1.02 (1.00-1.03) |
| Age | 1.02 (1.01-1.04) | 1.03 (1.01-1.04) |
| Female | 0.68 (0.51-0.90) | 0.79 (0.60-1.03) |
| Hypertension | 0.82 (0.56-1.20) | 1.44 (0.86-2.39) |
| Ischemic stroke (vs. ICH) | 1.41 (0.91-2.20) | 1.30 (0.74-2.31) |
| Serum creatinine | 1.00 (1.00-1.01) | 1.00 (1.00-1.00) |
| ST elevation on EKG vs. not | 0.76 (0.20-2.85) | 1.63 (0.51-5.18) |
| Congestive heart failure | 1.91 (1.33-2.73) | 1.06 (0.80-1.41) |

\*negative binomial regression model; $modified Poisson models.

**e-Table 3.** Evaluation of modifying effect of sex and stroke type on the association between stroke severity and serum troponin.

|  |  |
| --- | --- |
|  | Serum troponin as a continuous variable |
|  | P value of interaction |
| **Multivariable-adjusted models** |  |
| Sex\*NIHSS | 0.28 |
| Stroke Type\*NIHSS | 0.61 |

Models are adjusted for age, sex, stroke type, history of hypertension and congestive heart failure, serum creatinine level, ST elevation on EKG and