**Additional file 1. Multivariate analysis of possible predictors of silent brain infarct, excluding patients with statin use**† **(n = 2,916)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 　 | **Crude OR (95% CI)** | ***P-*value** | **Adjusted OR (95% CI)** | ***P-*value** |
| Age\* | 2.17 (1.87 to 2.51) | < 0.001 | 2.07 (1.78 to 2.41) | < 0.001 |
| Sex | 1.11 (0.85 to 1.45) | 0.435 | 1.07 (0.81 to 1.42) | 0.628 |
| Hypertension | 2.11 (1.60 to 2.79) | < 0.001 | 1.49 (1.11 to 2.01) | 0.009 |
| Diabetes | 1.90 (1.37 to 2.63) | < 0.001 | 1.21 (0.85 to 1.71) | 0.291 |
| On antiplatelet medication | 1.65 (1.13 to 2.40) | 0.009 | 0.99 (0.67 to 1.48) | 0.973 |
| hs-CRP\* | 1.12 (1.03 to 1.21) | 0.010 | 1.07 (0.98 to 1.17) | 0.123 |
| ICAS | 2.48 (1.40 to 4.41) | 0.002 | 1.50 (0.82 to 2.76) | 0.189 |
| TG/HDL cholesterol ratio\* | 1.11 (0.99 to 1.25) | 0.078 | 1.15 (1.01 to 1.31) | 0.035 |

hs-CRP = high-sensitivity C-reactive protein, ICAS = intracranial atherosclerosis, TG = triglyceride, HDL = high-density lipoprotein

\*These variables were standardized by division by the standard deviation.

†These analyses were performed after excluding subjects with statin medication

**Additional file 2. Comparisons of risk factors according to TG/HDL cholesterol ratio teritles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 　 | **Tertile 1****(< 1.42)** | **Tertile 2****(1.42-2.56)** | **Tertile 3****(> 2.56)** | ***P* for trend** |
| Number | 1057 | 1056 | 1059 |  |
| Age, y [IQR] | 55 [50-63] | 57 [52-63] | 56 [49-63] | 0.386 |
| Sex, male, n (%) | 421 (39.7) | 555 (52.7) | 737 (69.7) | < 0.001 |
| Body mass index, kg/m2 [IQR] | 22.92 [21.11-24.80] | 24.14 [22.26-26.00] | 24.98 [23.37-26.93] | < 0.001 |
| Hypertension, n (%) | 184 (17.3) | 255 (24.2) | 273 (25.8) | < 0.001 |
| Diabetes, n (%) | 99 (9.3) | 143 (13.6) | 195 (18.4) | < 0.001 |
| Ischemic heart disease, n (%) | 40 (3.8) | 36 (3.4) | 48 (4.5) | 0.361 |
| Current smoking, n (%) | 86 (8.1) | 124 (11.8) | 279 (26.4) | < 0.001 |
| Current alcohol use, n (%) | 467 (44.0) | 505 (47.9) | 567 (53.6) | < 0.001 |
| Fasting glucose, mg/dL [IQR] | 89 [82-97] | 92 [85-101] | 95 [87-105] | < 0.001 |
| White blood cells, x 103/μL [IQR] | 4.81 [4.00-5.83] | 5.28 [4.42-6.21] | 5.90 [4.92-7.12] | < 0.001 |
| hs-CRP, mg/dL [IQR] | 0.02 [0.01-0.11] | 0.05 [0.01-0.15] | 0.09 [0.01-0.18] | < 0.001 |

hs-CRP = high-sensitivity C-reactive protein