

**Supplementary Table 1.** Multivariable logistic regression analysis of total cholesterol for OHCA (with potential confounder variables)

|                                      | Adjusted OR <sup>a)</sup> | 95% CI     |
|--------------------------------------|---------------------------|------------|
| Total cholesterol level (mg/dL)      |                           |            |
| < 148                                | 6.53                      | 4.47–9.56  |
| 148–166.9                            | 1.67                      | 1.10–2.53  |
| 167–189.9                            | 1.00                      |            |
| 190–215.9                            | 0.75                      | 0.49–1.15  |
| 216–237.9                            | 0.62                      | 0.35–1.10  |
| ≥ 238                                | 0.44                      | 0.22–0.87  |
| Diabetes mellitus                    |                           |            |
| Yes                                  | 0.97                      | 0.66–1.42  |
| No                                   | 1.00                      |            |
| Hypertension                         |                           |            |
| Yes                                  | 1.39                      | 1.02–1.89  |
| No                                   | 1.00                      |            |
| Smoking history                      |                           |            |
| Current smoker                       | 0.78                      | 0.54–1.12  |
| Ex-smoker                            | 0.32                      | 0.21–0.49  |
| Never-smoker                         | 1.00                      |            |
| Alcohol use                          |                           |            |
| Frequent drinker                     | 0.26                      | 0.17–0.40  |
| Occasional drinker                   | 0.53                      | 0.39–0.73  |
| Never drinker                        | 1.00                      |            |
| Exercise habits                      |                           |            |
| High-intensity (≥ once per week)     | 1.00                      |            |
| Medium-intensity (≥ once per week)   | 3.55                      | 1.76–7.16  |
| Rarely                               | 0.52                      | 0.29–0.97  |
| Sleeping (hr/night)                  |                           |            |
| 0–5.9                                | 0.56                      | 0.36–0.87  |
| 6–7.9                                | 1.00                      |            |
| ≥ 8                                  | 1.94                      | 1.46–2.58  |
| Body mass index (kg/m <sup>2</sup> ) |                           |            |
| 10.5–18.4                            | 1.42                      | 0.81–2.48  |
| 18.5–24.9                            | 1.00                      |            |
| 25–50                                | 0.70                      | 0.52–0.95  |
| Hemoglobin level (g/dL)              |                           |            |
| < 12                                 | 3.29                      | 2.27–4.77  |
| ≥ 12                                 | 1.00                      |            |
| Creatinine level (mg/dL)             |                           |            |
| < 1.3                                | 1.00                      |            |
| 1.3–1.9                              | 20.20                     | 13.8–29.5  |
| ≥ 2.0                                | 56.00                     | 23.8–131.8 |

OHCA, out-of-hospital cardiac arrest; OR, odds ratio; CI, confidence interval.

<sup>a)</sup>Adjusted for body mass index, diabetes mellitus, hypertension, sleeping hours/night, smoking history, alcohol use, exercise habit, hemoglobin level, and creatinine level.