



Figure S1 The RCS analysis between the duration of aspirin use and mortality. (A) In-hospital death; (B) 28-day mortality. CI, confidence interval; RCS, restricted cubic spline.

Table S1 Association of aspirin use with in-hospital death using multivariable logistic regression analysis

| Variables | Estimate | SE | Z | P | OR (95% CI) |
|------------------------|----------|-------|--------|--------|----------------------|
| Age | 0.037 | 0.005 | 6.895 | <0.001 | 1.037 (1.027, 1.048) |
| Heart rate | 0.007 | 0.004 | 1.830 | 0.07 | 1.007 (1.000, 1.014) |
| DBP | -0.005 | 0.006 | -0.803 | 0.42 | 0.995 (0.983, 1.007) |
| SpO ₂ | -0.039 | 0.006 | -6.094 | <0.001 | 0.962 (0.949, 0.974) |
| Glucose | 0.003 | 0.001 | 2.580 | 0.01 | 1.003 (1.001, 1.006) |
| Hematocrit | -0.006 | 0.010 | -0.632 | 0.53 | 0.994 (0.974, 1.013) |
| Pt | 0.042 | 0.008 | 5.039 | <0.001 | 1.043 (1.026, 1.060) |
| Aspirin use | -0.595 | 0.120 | -4.952 | <0.001 | 0.552 (0.435, 0.697) |
| Gender (female) | 0.109 | 0.109 | 1.001 | 0.32 | 1.115 (0.901, 1.381) |
| Renal disease | 0.221 | 0.134 | 1.649 | 0.10 | 1.247 (0.957, 1.619) |
| CAD | -0.174 | 0.136 | -1.284 | 0.20 | 0.840 (0.643, 1.095) |
| Diabetes | -0.230 | 0.122 | -1.880 | 0.06 | 0.795 (0.625, 1.008) |
| Hypertension | -0.225 | 0.119 | -1.889 | 0.06 | 0.799 (0.632, 1.008) |
| Mechanical ventilation | 0.561 | 0.123 | 4.561 | <0.001 | 1.752 (1.375, 2.227) |
| CRRT | 1.035 | 0.168 | 6.149 | <0.001 | 2.815 (2.024, 3.917) |
| Vasopressor use | 1.242 | 0.119 | 10.442 | <0.001 | 3.462 (2.747, 4.379) |

SE, standard error; OR, odds ratio; CI, confidence interval; DBP, diastolic blood pressure; SpO₂, oxygen saturation; Pt, prothrombin time; CAD, coronary artery disease; CRRT, continuous renal replacement therapy.

Table S2 Association of aspirin use with 28-day mortality using multivariable logistic regression analysis

| Variables | Estimate | SE | Z | P | OR (95% CI) |
|-------------------------|----------|-------|--------|--------|----------------------|
| Age | 0.042 | 0.005 | 8.609 | <0.001 | 1.043 (1.033, 1.053) |
| Heart rate | 0.009 | 0.003 | 2.776 | 0.005 | 1.009 (1.003, 1.016) |
| DBP | -0.006 | 0.006 | -1.057 | 0.29 | 0.994 (0.983, 1.005) |
| SpO ₂ | -0.033 | 0.006 | -5.339 | <0.001 | 0.968 (0.956, 0.979) |
| Glucose | 0.004 | 0.001 | 2.966 | 0.003 | 1.004 (1.001, 1.006) |
| Hematocrit | -0.009 | 0.009 | -1.043 | 0.30 | 0.991 (0.973, 1.008) |
| Pt | 0.047 | 0.008 | 5.606 | <0.001 | 1.048 (1.031, 1.065) |
| Aspirin use | -0.647 | 0.109 | -5.917 | <0.001 | 0.524 (0.422, 0.648) |
| Gender (female) | 0.090 | 0.099 | 0.910 | 0.36 | 1.095 (0.901, 1.330) |
| Renal disease | 0.260 | 0.123 | 2.109 | 0.04 | 1.296 (1.017, 1.648) |
| Coronary artery disease | -0.218 | 0.123 | -1.763 | 0.08 | 0.804 (0.631, 1.024) |
| Diabetes | -0.252 | 0.111 | -2.258 | 0.02 | 0.778 (0.624, 0.966) |
| Hypertension | -0.332 | 0.109 | -3.060 | 0.002 | 0.717 (0.579, 0.887) |
| Mechanical ventilation | 0.440 | 0.116 | 3.795 | <0.001 | 1.553 (1.236, 1.947) |
| CRRT | 0.995 | 0.166 | 5.987 | <0.001 | 2.704 (1.954, 3.749) |
| Vasopressor use | 0.966 | 0.106 | 9.106 | <0.001 | 2.628 (2.136, 3.238) |

SE, standard error; OR, odds ratio; CI, confidence interval; DBP, diastolic blood pressure; SpO₂, oxygen saturation; Pt, prothrombin time; CRRT, continuous renal replacement therapy.

Table S3 Association of aspirin use with in-hospital death using multivariable Cox-regression analysis

| Variables | Estimate | SE | Z | P | HR (95% CI) |
|-------------------------|----------|-------|--------|--------|----------------------|
| Aspirin use | -0.393 | 0.098 | -4.002 | <0.001 | 0.675 (0.557, 0.818) |
| Gender (female) | -0.139 | 0.089 | -1.570 | 0.12 | 0.870 (0.731, 1.035) |
| Renal disease | -0.071 | 0.109 | -0.651 | 0.52 | 0.931 (0.752, 1.153) |
| Coronary artery disease | -0.055 | 0.113 | -0.482 | 0.63 | 0.947 (0.758, 1.183) |
| Diabetes | -0.246 | 0.104 | -2.379 | 0.02 | 0.782 (0.638, 0.958) |
| Hypertension | 0.212 | 0.100 | 2.113 | 0.04 | 1.236 (1.015, 1.505) |
| Mechanical ventilation | -0.084 | 0.097 | -0.866 | 0.39 | 0.919 (0.760, 1.112) |
| CRRT | 0.441 | 0.121 | 3.648 | <0.001 | 1.554 (1.226, 1.970) |
| Age | 0.003 | 0.005 | 0.763 | 0.45 | 1.003 (0.995, 1.013) |
| Heart rate | 0.002 | 0.003 | 0.579 | 0.56 | 1.002 (0.996, 1.007) |
| DBP | -0.001 | 0.004 | -0.209 | 0.83 | 0.999 (0.990, 1.008) |
| SpO ₂ | -0.010 | 0.004 | -2.287 | 0.02 | 0.990 (0.982, 0.999) |
| Glucose | 0.002 | 0.001 | 1.622 | 0.11 | 1.002 (1.000, 1.004) |
| Hematocrit | 0.084 | 0.009 | 9.779 | <0.001 | 1.087 (1.069, 1.106) |
| Pt | 0.006 | 0.004 | 1.472 | 0.14 | 1.006 (0.998, 1.014) |
| Vasopressor use | 0.696 | 0.100 | 6.972 | <0.001 | 2.006 (1.649, 2.440) |

SE, standard error; HR, hazard ratio; CI, confidence interval; CRRT, continuous renal replacement therapy; DBP, diastolic blood pressure; SpO₂, oxygen saturation; Pt, prothrombin time.

Table S4 Association of aspirin use with 28-day mortality using multivariable Cox-regression analysis

| Variables | Estimate | SE | Z | P | HR (95% CI) |
|-------------------------|----------|-------|--------|--------|----------------------|
| Aspirin use | -0.207 | 0.088 | -2.356 | <0.001 | 0.813 (0.684, 0.966) |
| Gender (female) | -0.057 | 0.078 | -0.731 | 0.47 | 0.944 (0.810, 1.101) |
| Renal disease | -0.059 | 0.096 | -0.617 | 0.54 | 0.943 (0.782, 1.137) |
| Coronary artery disease | -0.124 | 0.101 | -1.225 | 0.22 | 0.884 (0.725, 1.077) |
| Diabetes | -0.170 | 0.090 | -1.882 | 0.06 | 0.844 (0.707, 1.007) |
| Hypertension | 0.083 | 0.089 | 0.935 | 0.35 | 1.087 (0.913, 1.294) |
| Mechanical ventilation | 0.150 | 0.087 | 1.731 | 0.08 | 1.162 (0.980, 1.378) |
| CRRT | 0.379 | 0.112 | 3.395 | 0.001 | 1.461 (1.174, 1.818) |
| Age | 0.005 | 0.004 | 1.207 | 0.23 | 1.005 (0.997, 1.013) |
| Heart rate | 0.004 | 0.002 | 1.585 | 0.11 | 1.004 (0.999, 1.009) |
| DBP | 0.004 | 0.004 | 0.909 | 0.36 | 1.004 (0.996, 1.011) |
| SpO ₂ | -0.009 | 0.004 | -2.107 | 0.04 | 0.991 (0.983, 0.999) |
| Glucose | 0.001 | 0.001 | 1.098 | 0.27 | 1.001 (0.999, 1.003) |
| Hematocrit | 0.013 | 0.007 | 1.772 | 0.08 | 1.013 (0.999, 1.027) |
| Pt | 0.004 | 0.004 | 1.135 | 0.26 | 1.004 (0.997, 1.012) |
| Vasopressor use | 0.508 | 0.085 | 5.977 | <0.001 | 1.662 (1.407, 1.963) |

SE, standard error; HR, hazard ratio; CI, confidence interval; CRRT, continuous renal replacement therapy; DBP, diastolic blood pressure; SpO₂, oxygen saturation; Pt, prothrombin time.