



**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 <sub>2</sub>	-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; SpO<sub>2</sub>, 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 <sub>2</sub>	-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; SpO<sub>2</sub>, 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 <sub>2</sub>	-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; SpO<sub>2</sub>, 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 <sub>2</sub>	-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; SpO<sub>2</sub>, oxygen saturation; Pt, prothrombin time.