Patient characteristics	Age, sex, body weight
Illness severity	SOFA score, APACHE II score, positive blood culture
Source of ICU admission	Emergency department/ward/other hospital
Pre-existing condition	Liver insufficiency, chronic heart failure, chronic respiratory
	disorder, chronic hemodialysis, immunocompromise
SOFA sub-score	Respiratory, cardiovascular, renal, hepatic, GCS
ICU characteristics	Closed ICU/open ICU/other, volume of ICU
Primary source of infection	Abdomen/lung/urinary tract/bone+soft tissue/central nervous
	system/other/unknown
Causal microorganisms	Gram-positive bacteria/Gram-negative bacteria/mixed
	organisms/other/unknown
Therapeutic interventions	Immunoglobulin, low-dose steroid, renal replacement therapy,
	low-dose heparin for prophylaxis against venous
	thromboembolism, surgical intervention

 Table S1. The 26 variables used to calculate the propensity score in the logistic regression model

Abbreviations: SOFA, Sequential Organ Failure Assessment; APACHE, Acute Physiology and Chronic Health Evaluation; ICU, intensive care unit; GCS, Glasgow Coma Score.

	1		8	1 5 5	1		8	5		
	JAAM DIC score									TT / 1
	0	1	2	3	4	5	6	7	8	Total
	n=41	n=193	n=310	n=326	n=275	n=361	n=306	n=127	n=258	n=2197
Patient characteristics										
Age (years)	75 (62-81)	74 (63-81)	71 (61-80)	73 (62-81)	74 (64-81)	72 (63-80)	72 (63-80)	73 (62-81)	71 (60-80)	72 (62-80)
Sex, male	25 (61%)	123 (64%)	211 (68%)	189 (58%)	153 (56%)	211 (58%)	172 (56%)	77 (61%)	133 (52%)	1294 (59%
Illness severity										
APACHE II score	17 (11-22)	19 (15-24)	20 (15-26)	21 (16-28)	22 (16-27)	23 (17-28)	24 (18-30)	24 (17-31)	26 (20-32)	22 (17-28
SOFA score	6 (3-8)	7 (4-9)	7 (5-9)	9 (6-11)	8 (6-11)	9 (7-12)	11 (8-13)	11 (9-13)	13 (10-15)	9 (6-12)
Source of ICU admission										
Emergency department	28 (68%)	118 (61%)	144 (46%)	145 (44%)	128 (47%)	160 (44%)	130 (42%)	59 (46%)	124 (48%)	1036 (47%
Ward	10 (24%)	47 (24%)	95 (31%)	88 (27%)	77 (28%)	109 (30%)	103 (34%)	42 (33%)	72 (28%)	643 (29%
Other hospital	3 (7%)	28 (15%)	71 (23%)	93 (29%)	70 (25%)	92 (25%)	73 (24%)	26 (20%)	62 (24%)	518 (24%
Pre-existing comorbidities										
Immunocompromised	3 (7%)	18 (9%)	31 (10%)	39 (12%)	30 (11%)	34 (9%)	33 (11%)	8 (6%)	35 (14%)	231 (11%
Chronic kidney disease	0 (0%)	13 (7%)	28 (9%)	20 (6%)	23 (8%)	32 (9%)	23 (8%)	12 (9%)	16 (6%)	167 (8%)
Chronic heart failure	4 (10%)	20 (10%)	22 (7%)	13 (4%)	14 (5%)	16 (4%)	10 (3%)	11 (9%)	15 (6%)	125 (6%)
Chronic respiratory disorder	0 (0%)	11 (6%)	21 (7%)	9 (3%)	13 (5%)	17 (5%)	7 (2%)	4 (3%)	7 (3%)	89 (4%)
Liver insufficiency	0 (0%)	0 (0%)	2 (1%)	1 (0%)	4 (1%)	4 (1%)	3 (1%)	1 (1%)	2 (1%)	17 (1%)
Site of infection										
Abdomen	5 (12%)	45 (23%)	84 (27%)	115 (35%)	87 (32%)	132 (37%)	117 (38%)	45 (35%)	75 (29%)	705 (32%
Lung	18 (44%)	82 (42%)	107 (35%)	95 (29%)	80 (29%)	85 (24%)	49 (16%)	15 (12%)	32 (12%)	563 (26%
Urinary tract	8 (20%)	31 (16%)	36 (12%)	36 (11%)	48 (17%)	69 (19%)	60 (20%)	20 (16%)	83 (32%)	391 (18%

Table S2. Baseline characteristics in patients with and without anticoagulant therapy by each cut-off point of the JAAM DIC scoring system

Bone/soft tissue	8 (20%)	25 (13%)	46 (15%)	43 (13%)	32 (12%)	37 (10%)	39 (13%)	19 (15%)	18 (7%)	267 (12%)
Central nervous system	2 (5%)	4 (2%)	3 (1%)	5 (2%)	5 (2%)	5 (1%)	6 (2%)	7 (6%)	14 (5%)	51 (2%)
Other/unknown	0 (0%)	6 (3%)	34 (11%)	32 (10%)	23 (8%)	33 (9%)	35 (11%)	21 (17%)	36 (14%)	220 (10%)
Therapeutic interventions										
Immunoglobulin	6 (15%)	35 (18%)	76 (25%)	111 (34%)	91 (33%)	115 (32%)	107 (35%)	54 (43%)	102 (40%)	697 (32%)
Low-dose steroid	6 (15%)	32 (17%)	58 (19%)	79 (24%)	63 (23%)	82 (23%)	88 (29%)	37 (29%)	99 (38%)	544 (25%)
Renal replacement therapy	3 (7%)	29 (15%)	58 (19%)	81 (25%)	66 (24%)	99 (27%)	104 (34%)	58 (46%)	103 (40%)	601 (27%)
Surgical intervention	14 (34%)	56 (29%)	135 (44%)	154 (47%)	113 (41%)	144 (40%)	146 (48%)	56 (44%)	109 (42%)	927 (42%)
Antithrombin	3 (7%)	21 (11%)	56 (18%)	95 (29%)	93 (34%)	129 (36%)	132 (43%)	62 (49%)	138 (53%)	729 (33%)
Recombinant thrombomodulin	0 (0%)	15 (8%)	46 (15%)	76 (23%)	71 (26%)	127 (35%)	121 (40%)	60 (47%)	128 (50%)	644 (29%)
Heparin/Heparinoid	2 (5%)	8 (4%)	9 (3%)	18 (6%)	24 (9%)	14 (4%)	13 (4%)	13 (10%)	20 (8%)	121 (6%)
Outcomes										
In-hospital mortality	6 (15%)	38 (20%)	60 (19%)	78 (24%)	78 (28%)	124 (34%)	106 (35%)	47 (37%)	102 (40%)	639 (29%)
With anticoagulant	0 (0%)	12 (30%)	19 (22%)	34 (22%)	42 (29%)	69 (35%)	66 (34%)	30 (33%)	71 (37%)	343 (31%)
Without anticoagulant	6 (16%)	26 (17%)	41 (18%)	44 (25%)	36 (27%)	55 (34%)	40 (35%)	17 (49%)	31 (46%)	296 (27%)
Bleeding complications	3 (7%)	16 (8%)	25 (8%)	31 (10%)	31 (11%)	50 (14%)	47 (15%)	17 (13%)	33 (13%)	253 (12%)
With anticoagulant	0 (0%)	6 (15%)	6 (7%)	17 (11%)	22 (15%)	38 (19%)	35 (18%)	11 (12%)	30 (16%)	165 (15%)
Without anticoagulant	3 (8%)	10 (7%)	19 (9%)	14 (8%)	9 (7%)	12 (7%)	12 (11%)	6 (17%)	3 (4%)	88 (8%)

Abbreviations: JAAM, Japanese Association for Acute Medicine; DIC, disseminated intravascular coagulation; APACHE, Acute Physiology and Chronic Health Evaluation; SOFA, Sequential Organ Failure Assessment; ICU, intensive care unit.

Cut-off Sa	Cri	teria negative (ISTH overt DIC	C score < cut-o	Criteria positive (ISTH overt DIC score \geq cut-off point)					
	Sample	Anticoagulant		Control		Sample	Anticoagulant		Control	
	size	Mortality	95% CI	Mortality	95% CI	size	Mortality	95% CI	Mortality	95% CI
1	161	9.5	1.1-48.5	19.9	9.6-36.9	1732	27.3	18-39.2	37.2	31.6-43.1
2	293	14	3.7-40.5	19.2	11.9-29.6	1600	27.9	18.1-40.5	39	33.1-45.4
3	536	20.8	7.4-46.3	24.8	16.2-35.9	1357	27.9	17.7-41	40.7	34.4-47.4
4	906	20.5	10.1-36.9	26.9	20.4-34.7	987	30.4	17.7-47	44.7	36.7-52.9
5	1339	22.9	13.4-36.4	30.3	24.4-36.9	554	33.7	16.7-56.2	49.9	39.2-60.6
6	1630	24.4	15.3-36.5	32.4	26.9-38.3	263	37.5	13.7-69.3	54.4	38.9-69.1
7	1804	25.8	16.8-37.4	34	28.6-39.7	89	40.1	6.7-86.1	59.9	34.4-81
8	1877	26.1	17.3-37.4	34.9	29.6-40.5	16	65.4	32-88.4	65.4	32-88.4
Total	1893	26.5	17.6-37.7	35.2	30-40.8					

 Table S3. Actual sample size and estimated mortality in the anticoagulant and control groups according to each cut-off point of the ISTH overt DIC scoring system

Abbreviations: ISTH, International Society of Thrombosis and Hemostasis; DIC, disseminated intravascular coagulation; CI, confidence interval.

		Criteria negativo	e (JAAM DIC s	core < cut-off	point)	Criteria positive (JAAM DIC score \geq cut-off point)					
Cut-off	Sample	Anticoagulant		Control		Sample	Antico	agulant	Control		
	size	Mortality	95% CI	Mortality	95% CI	size	Mortality	95% CI	Mortality	95% CI	
1	41	13.5	5.6-28.9	13.5	5.6-28.9	2156	28.0	19.4-38.4	35.4	30.6-40.5	
2	234	18.1	6.1-43.1	14.4	10.1-20.1	1963	28.4	19.4-39.5	37.9	32.7-43.3	
3	544	22.1	9.6-43.0	17.6	12.8-23.7	1653	28.8	19.1-41.1	42.1	36.2-48.3	
4	870	21.2	10.0-39.6	24.5	18.0-32.3	1327	30.7	19.9-44.2	43.7	37.3-50.3	
5	1145	22.1	11.7-37.6	27.4	21.2-34.6	1052	32.5	20.3-47.6	44.8	37.7-52.1	
6	1506	25.4	15.6-38.4	29.9	24.5-35.8	691	32.1	17.2-51.8	46.9	37.6-56.5	
7	1812	26.6	17.5-38.1	31.3	26.5-36.7	385	32.6	13.6-59.8	52.8	39.7-65.5	
8	1939	26.8	18.0-37.9	32.9	28.0-38.1	258	34.4	12.0-67.0	51.5	35.9-66.8	
Total	2197	27.8	19.4-38.2	34.8	30.2-39.8						

Table S4. Actual sample size and estimated mortality in the anticoagulant and control groups according to each cut-off point of the JAAM DIC scoring system

Abbreviations: JAAM, Japanese Association for Acute Medicine; DIC, disseminated intravascular coagulation; CI, confidence interval.