

Table S1 Difference of pulmonary thrombolysis group and residual group in training group

Variables	Dissolution group (N=145)	Residual group (N=29)	P
Sex (male)	79 (54.5)	19 (65.5)	0.37
Age, years	70.16 (12.49)	77.59 (6.61)	0.002
Weight, kg	63.73 (10.05)	65.59 (9.38)	0.36
SPO ₂	89.32 (5.42)	84.14 (9.16)	<0.001
Pre-existing disease			
Hypertension	84 (57.9)	17 (58.6)	>0.99
Diabetes	29 (20.0)	10 (34.5)	0.14
CHD	21 (14.5)	9 (31.0)	0.059
Renal insufficiency	16 (11.0)	3 (10.3)	>0.99
Hypohepatia	21 (14.5)	5 (17.2)	0.92
Pneumonia	108 (74.5)	22 (75.9)	>0.99
COPD	36 (24.8)	16 (55.2)	0.002
Tumour	8 (5.5)	0 (0.0)	0.41
Gastric diseases	11 (7.6)	2 (6.9)	>0.99
Cerebral infarction	12 (8.3)	4 (13.8)	0.55
Symptoms			
Breathing difficulties	102 (70.3)	28 (96.6)	0.006
Edema	51 (35.2)	17 (58.6)	0.03
Acratia	18 (12.4)	15 (51.7)	<0.001
Chest pain	47 (32.4)	5 (17.2)	0.15
Syncope	16 (11.0)	4 (13.8)	0.91
Hemoptysis	3 (2.1)	2 (6.9)	0.41
WBC, ×10 ⁹ /L	7.97 (3.27)	8.79 (3.08)	0.21
RBC, ×10 ¹² /L	4.51 (0.89)	4.88 (0.80)	0.03
HB, g/L	133.12 (28.99)	151.21 (26.16)	0.002
PLT, ×10 ⁹ /L	204.90 (83.22)	185.75 (111.50)	0.28
CRP, mg/L	32.46 (50.87)	43.11 (53.99)	0.31
ALT, U/L	29.01 (36.76)	45.01 (71.40)	0.07
AST, U/L	33.79 (55.19)	49.76 (48.60)	0.14
ALB, g/L	37.21 (6.13)	36.84 (4.59)	0.76
Globulin, g/L	27.72 (4.96)	27.82 (4.67)	0.92
BUN, mmol/L	6.33 (3.63)	8.77 (4.65)	0.002
CR, μmol/L	87.95 (30.66)	111.62 (57.76)	0.002
UA, μmol/L	352.94 (136.11)	430.31 (198.15)	0.011
TG, mmol/L	1.81 (1.07)	1.94 (1.15)	0.56
TC, mmol/L	4.09 (1.22)	4.16 (1.13)	0.79
HDL, mmol/L	1.38 (0.76)	1.41 (0.85)	0.84
LDL, mmol/L	2.76 (1.01)	2.71 (0.93)	0.81
TNT, ug/L	0.03 (0.04)	0.09 (0.17)	<0.001
NT-proBNP, pg/mL	1362.29 (2546.68)	4846.06 (7262.30)	<0.001
AP, s	12.21 (2.55)	12.74 (1.95)	0.29
INR	1.80 (8.80)	1.14 (0.24)	0.68
APTT, s	29.42 (5.61)	30.06 (4.41)	0.56
TT, s	19.92 (6.32)	20.37 (8.77)	0.74
Fibrinogen, g/L	3.79 (1.53)	3.84 (1.56)	0.86
D-Dimer, ug/mL	6.16 (6.60)	5.56 (6.20)	0.65
FDP, ug/mL	18.19 (15.87)	19.93 (16.60)	0.59
PASP, mmHg	39.15 (12.87)	60.03 (16.74)	<0.001
DVT	101 (69.7)	22 (75.9)	0.65
Major arterial embolism	32 (22.1)	22 (75.9)	<0.001

Data are presented as mean (SD) or count data (%). SPO₂, blood oxygen saturation; CHD, coronary heart disease; COPD, chronic obstructive pulmonary disease; WBC, white blood cell count; RBC, red blood cell count; HB, hemoglobin; PLT, platelet; CRP, C-reactive protein; ALT, alanine aminotransferase; AST, aspartate transaminase; ALB, serum albumin; BUN, urea nitrogen; CR, serum creatinine; UA, uric acid; TG, triglyceride; TC, total cholesterol; HDL, high density lipoprotein; LDL, low-density lipoprotein; TNT, troponin T; NT-proBNP, N-terminal brain natriuretic peptide; AP, prothrombin time; INR, international normalized ratio; APTT, activated partial thrombin time; TT, coagulation time; FDP, fibrin degradation products; PASP, pulmonary arterial systolic pressure; DVT, deep venous thrombosis; Major arterial embolism, left or right pulmonary embolism. P<0.05 indicates a statistical difference.

Table S2 Differences between training set and test set

Variables	Training set (N=174)	Test set (N=31)	P
Sex (male)	98 (56.3)	17 (54.8)	>0.99
Age, years	71.40 (12.03)	71.13 (9.52)	0.90
Weight, kg	64.04 (9.94)	65.29 (10.21)	0.52
SPO ₂	88.46 (6.46)	88.42 (8.89)	0.97
Pre-existing disease			
Hypertension	101 (58.0)	14 (45.2)	0.25
Diabetes	39 (22.4)	4 (12.9)	0.33
CHD	30 (17.2)	6 (19.4)	0.97
Renal insufficiency	19 (10.9)	6 (19.4)	0.30
Hypohepatia	26 (14.9)	1 (3.2)	0.13
Pneumonia	130 (74.7)	20 (64.5)	0.33
COPD	52 (29.9)	13 (41.9)	0.26
Tumour	8 (4.6)	3 (9.7)	0.46
Gastric diseases	13 (7.5)	1 (3.2)	0.63
Cerebral infarction	16 (9.2)	3 (9.7)	>0.99
Symptoms			
Breathing difficulties	130 (74.7)	25 (80.6)	0.6
Edema	68 (39.1)	18 (58.1)	0.07
Acratia	33 (19.0)	5 (16.1)	0.90
Chest pain	52 (29.9)	6 (19.4)	0.32
Syncope	20 (11.5)	5 (16.1)	0.66
Hemoptysis	5 (2.9)	2 (6.5)	0.63
WBC, ×10 ⁹ /L	8.11 (3.24)	7.56 (2.12)	0.36
RBC, ×10 ¹² /L	4.57 (0.88)	4.34 (0.64)	0.16
HB, g/L	136.14 (29.26)	132.39 (19.72)	0.49
PLT, ×10 ⁹ /L	201.71 (88.47)	205.42 (72.78)	0.82
CRP, mg/L	34.23 (51.39)	15.68 (24.22)	0.050
ALT, U/L	31.68 (44.56)	38.70 (68.18)	0.46
AST, U/L	36.45 (54.34)	45.89 (91.37)	0.43
ALB, g/L	37.15 (5.89)	37.32 (6.30)	0.88
Globulin, g/L	27.73 (4.90)	28.04 (5.06)	0.74
BUN, mmol/L	6.74 (3.91)	6.59 (2.97)	0.84
CR, μmol/L	91.90 (37.42)	92.39 (30.87)	0.94
UA, μmol/L	365.83 (150.37)	415.19 (144.30)	0.09
TG, mmol/L	1.84 (1.08)	1.67 (0.76)	0.40
TC, mmol/L	4.10 (1.20)	4.23 (1.35)	0.59
HDL, mmol/L	1.39 (0.78)	1.43 (0.78)	0.77
LDL, mmol/L	2.75 (1.00)	2.94 (1.21)	0.36
TNT, ug/L	0.04 (0.08)	0.05 (0.10)	0.63
NT-proBNP, pg/mL	1942.91 (3953.46)	2217.31 (6461.67)	0.75
AP, s	12.30 (2.46)	11.72 (1.28)	0.20
INR	1.69 (8.03)	1.04 (0.14)	0.65
APTT, s	29.53 (5.42)	27.71 (4.81)	0.08
TT, s	20.00 (6.76)	19.31 (7.29)	0.60
Fibrinogen, g/L	3.79 (1.53)	3.35 (1.11)	0.12
D-Dimer, ug/mL	6.06 (6.52)	6.59 (5.85)	0.67
FDP, ug/mL	18.48 (15.96)	21.71 (16.54)	0.30
PASP, mmHg	42.63 (15.63)	46.65 (18.35)	0.20
DVT	123 (70.7)	19 (61.3)	0.40
Major arterial embolism	54 (31.03)	14 (45.16)	0.12

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