

Supplementary

Table S1 Disease& ICD-10 code

Disease	ICD-10 code
Atelectasis	J98.101
Cerebral infarction	I69.300
Chronic obstructive pulmonary disease	J44.900
Coronary heart disease	I25.103
Deep venous thrombosis	I80.207
Diabetes	E11
Flail chest	S22.500
Hemothorax	S27.100
Hypertension	I10.x09
Pneumonia	J98.414
Pneumothorax	S27.000
Pulmonary contusion	S27.301
Respiratory failure	J96.000
Rib fracture	S22.300

Table S3 Multicollinearity test of various factors of pulmonary complications

Parameters	Tolerance	VIF
Mechanisms	0.986	1.014
Fracture patterns (1)	0.901	1.109
Fracture patterns (2)	0.864	1.157
Age	0.944	1.059
Diabetes	0.965	1.036
COPD	0.982	1.108

Table S2 AIS_{Thorax}, RibScore and a comparison between pulmonary complications and no pulmonary complications groups

Variables	Total (n=168)	With pulmonary complications (n=126, 75.0%)	No pulmonary complications (n=42, 25.0%)	P
AIS _{Thorax}	3 (3, 3)	3 (3, 3)	2 (1, 3)	<0.001
RibScore	0 (0, 1.8)	1 (0, 2)	0 (0, 0)	0.001

Data are presented as median (interquartile range).