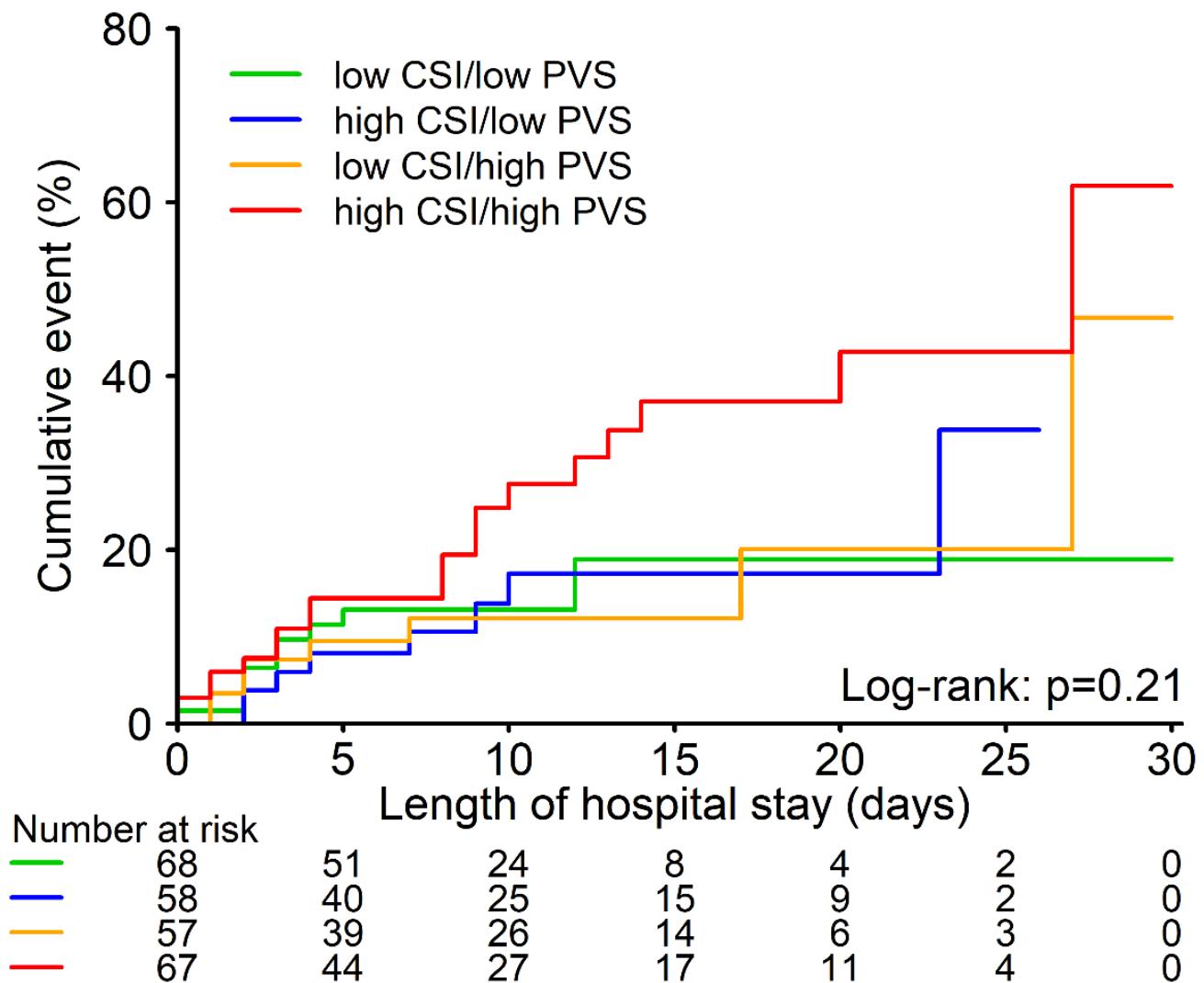


Supplementary figure 1. Study flow chart

Supplementary figure 2. Survival curve for the inhospital mortality according to ePVS/CSI categories



Supplementary table 1. Interaction between CSI/ePVS and baseline factors on in-hospital mortality

	p-value for interaction
Age >80 years	0.98
Sex	0.09
Hypertension	0.21
Coronary artery disease	0.78
COPD	0.45
Pneumonia	0.88
Pleural effusion in chest radiogram	0.18
Quality of chest radiogram	0.07

Supplementary table 2. Cox proportional hazard model for in-hospital mortality before and after 7 days following emergency department admission

	<7 days			≥ 7 days		
	HR	95% CI	p-value	HR	95% CI	p-value
CSI continuous (per 0.1)	0.99	0.99-1.24	0.92	1.11	0.99-1.24	0.07
High CSI vs Low CSI	1.01	0.48-2.12	0.98	4.30	1.23-15.10	0.02
ePVS continuous	0.94	0.70-1.26	0.68	1.40	1.04-1.88	0.03
High ePVS vs Low ePVS	1.18	0.56-2.49	0.66	1.80	0.62-5.21	0.28
Low CSI & Low ePVS		(reference)			(reference)	
High CSI & Low ePVS	0.74	0.24-2.27	0.60	3.75	0.14-16.97	0.24
Low CSI & High ePVS	0.90	0.31-2.61	0.85	1.52	0.41-33.93	0.73
High CSI & High ePVS	1.16	0.45-3.01	0.76	6.81	0.86-53.90	0.07