

**Supplementary Table 2.** Univariable Cox regression analysis for 1-year mortality after ICU admission in 2012–2016

Variable	Univariable model	
	Hazard ratio (95% CI)	P-value
Male sex	1.28 (1.13–1.45)	<0.001
Age (yr)	1.03 (1.02–1.04)	<0.001
Body mass index (kg/m <sup>2</sup> )	0.88 (0.86–0.89)	<0.001
Alcohol consumption		
Non-alcohol user	1	(0.002)
Current alcohol user <sup>a</sup>	0.77 (0.66–0.89)	<0.001
Former alcohol user	0.98 (0.82–1.17)	0.843
Smoking status		
Never smoker	1	(0.038)
Current smoker <sup>a</sup>	0.81 (0.66–1.00)	0.045
Former smoker	1.07 (0.94–1.21)	0.293
Charlson comorbidity index	1.28 (1.26–1.30)	<0.001
APACHE II	1.07 (1.06–1.08)	<0.001
Diagnosis of cancer	1.86 (1.64–2.10)	<0.001
Postoperative ICU admission	0.49 (0.44–0.56)	<0.001
Year of ICU admission		
2012	1	(0.014)
2013	1.35 (1.12–1.62)	0.001
2014	1.32 (1.09–1.60)	0.002
2015	1.21 (1.01–1.45)	0.037
2016	1.15 (0.94–1.41)	0.181
Socioeconomic status at ICU admission		
Final educational level		
Less than high school	1	(<0.001)
More than or equal to high school, less than college	0.80 (0.70–0.93)	0.003
More than or equal to college	0.81 (0.70–0.93)	0.002
Occupation		
Office worker	1	(<0.001)
Professional (licensed job)	1.24 (0.81–1.90)	0.316
House work	1.60 (1.20–2.14)	0.001
Self-employed	1.43 (1.03–1.99)	0.035
Student, military, or day labor	1.78 (1.31–2.42)	<0.001
Unemployed	3.33 (2.55–4.33)	<0.001
Religion		
None	1	(0.654)
Protestant	0.99 (0.85–1.15)	0.851
Catholic	1.15 (0.95–1.39)	0.167
Buddhism	1.04 (0.89–1.22)	0.601
Others (Islam, Hindu, Chondogyo)	0.98 (0.63–1.52)	0.922
Medical protection patients <sup>b</sup>	1.65 (1.27–2.14)	<0.001

All covariates of  $P < 0.1$  in univariable Cox regression model were included in final multivariable Cox regression model with main independent variables (socioeconomic status related factors).

ICU: intensive care unit; CI: confidence interval; APACHE II: Acute Physiology and Chronic Health Evaluation.

<sup>a</sup>Current smoker or alcohol users were defined as history of smoking or alcohol consumption within 1 month from ICU admission; <sup>b</sup>Medical protection patients are population of medically vulnerable group, which are officially registered in National Health Insurance System in South Korea.