



**Table S1.** Cox proportional hazards models.

	<b>Hazard Rate (95% CI) for ICU Length of Stay in Days</b>	<b><i>p</i></b>
Cox regression including APACHE II, age, gender and admission mode:		
Use of midazolam	1.75 (1.46–2.09)	< 0.001
Age	1.01 (1.01–1.02)	< 0.001
APACHE II	1.03 (1.02–1.04)	< 0.001
Emergency surgery	0.77 (0.61–0.98)	0.036
Cox regression with additional inclusion of sedation index:		
Use of midazolam	1.04 (0.83–1.31)	0.973
SI48 $\geq 1,5$	3.14 (2.23–4.43)	< 0.001
Age	1.01 (1.01–1.02)	< 0.001
APACHE II	1.03 (1.02–1.04)	< 0.001
Emergency surgery	0.72 (0.54–0.94)	0.017

Cox proportional hazards model of mortality during the intensive care unit stay. ICU: Intensive care unit; APACHE II: Acute physiology and chronic health evaluation II; SI48: Sedation index in the first 48 hours after initiation of treatment.