

# Supplementary material S1

Characteristics	Univariate logistic models		Multivariate logistic model		
	OR	p-value	OR <sub>aj</sub> *	CI (95%)	p-value
<b>Mental status</b>		< 0.001			0.79
Normal	1		1		
SSD who sustained or improved	1.02	0.937	1.32	0.83 – 9.27	0.426
SSD who progress to delirium/coma	2.19	0.034	1.38	0.56 – 20.73	0.508
Delirium /Coma	4.61	< 0.001	1.48	0.96 – 10.86	0.988
<b>Mechanical Ventilation</b>					
non-ventilated	1		1		
mechanically ventilated	14.92	< 0.001	7.42	4.64 - 12.38	< 0.001
<b>Diagnostic of admission</b>					
Surgical	1		1		
Medical	6.61	< 0.001	3.73	2.48 - 5.71	< 0.001
<b>Gender</b>					
Female	1		1		
Male	1.09	0.582	0.98	0.96 – 3.86	0.908
<b>Benzodiazepin use</b>					
No	1		1		
Yes	2.73	< 0.001	1.08	0.96 – 3.86	0.732
<b>Age</b>					
<50 yo	1		1		
50 - 69 yo	1.71	0.008	1.49	0.86 - 2.56	0.151
>70 yo	1.56	0.04	1.78	1.00 - 3.25	0.057
<b>Apache II</b>					
<24 points	1		1		
>24 points	2.75	< 0.001	1.17	1.07 - 9.25	0.465

\*OR<sub>aj</sub> = Odds Ratio adjusted

## Supplementary material S2

CAM-ICU feature	Total		Cognitive trajectory				P-value (teste $\chi^2$ )
			Improved or stable		Worsened		
	n	%	n	%	n	%	
<b>Flutuation</b>							
No	69	100,0	47	68,1	22	31,9	0,729
Yes	34	100,0	22	64,7	12	35,3	
<b>Attention deficit</b>							
No	68	100,0	45	66,2	23	33,8	0,807
Yes	35	100,0	24	68,6	11	31,4	
<b>Disorganized thinking</b>							
No	78	100,0	55	70,5	23	29,5	0,179
Yes	25	100,0	14	56,0	11	44,0	
<b>Level of consciousness</b>							
No	66	100,0	46	69,7	20	30,3	0,435
Yes	37	100,0	23	62,2	14	37,8	