

## Inflammatory and perfusion markers as risk factors and predictors of critically ill patient readmission

*Marcadores inflamatórios e perfusionais como preditores e fatores de risco para readmissão de pacientes gravemente enfermos*

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**Table 1S** - A univariate analysis of the risk factors associated with patient readmission to the ICU

Variables	OR (95% CI)	p value
Age		
24-47	Reference	
48-59	1.44 (0.62-3.33)	0.38
60-69	1.66 (0.73-3.74)	0.22
70-82	2.97 (1.39-6.33)	0.005
SAPS 3		
25-39	Reference	
40-53	2.04 (0.81-5.18)	0.13
54-66	2.62 (1.06-6.47)	0.03
67-83	4.21 (1.79-9.91)	<0.01
SWIFT $\geq 15$	2.70 (1.62-4.49)	<0.01
SOFA $\geq 3$	2.42 (1.42-4.13)	<0.01
CRP > 100mg/L (n=812)	1.03 (0.61-1.74)	0.89
CRP quartiles (n=812)		
6-28	Reference	
29-80	0.81 (0.39-1.70)	0.58
81-146	0.72 (0.42-1.81)	0.72
147-214	1.00 (0.49-2.01)	0.99
BD (n=469)		
-5.6 to -1	Reference	
-0.9 to -1.6	1.50 (0.58-3.81)	0.39
1.7 to -4.6	1.27 (0.48-3.35)	0.62
4.7 to -11	1.52 (0.60-3.89)	0.37
Lactate levels $\geq 2$ mmol/L (n=470)	1.00 (0.37-2.67)	0.99
ScvO <sub>2</sub> < 80% (n=418)	0.65 (0.24-1.79)	0.40
Gender		
Male	Reference	
Female	0.88 (0.53-1.46)	0.64
Diagnosis on admission		
Sepsis	Reference	
Cardiovascular	0.83 (0.33-2.07)	0.70

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Respiratory	1.07 (0.52-2.18)	0.85
Neurological	0.45 (0.13-1.60)	0.22
Gastrointestinal	0.88 (0.19-4.07)	0.87
Elective surgery	0.44 (0.22-0.89)	0.02
Emergency surgery	0.55 (0.18-1.68)	0.29
Other	1.10 (0.13-9.32)	0.92
Diagnosis on admission		
Grouped*	Reference	
Elective surgery	0.50 (0.28-0.92)	0.02
Heart failure	1.25 (0.48-3.25)	0.64
Cirrhosis	1.38 (0.57-3.33)	0.13
Chronic obstructive pulmonary disease	1.38 (0.57-3.33)	0.47
Chronic renal failure	0.64 (0.08-4.88)	0.64
Immunosuppression	0.93 (0.39-2.22)	0.87
Discharge over the weekend	1.62 (0.91-2.90)	0.10
Discharge at night	1.67 (0.99-2.83)	0.05
Tracheostomy (at discharge)	3.13 (1.61-6.08)	<0.01
Contact isolation (at discharge)	2.75 (1.64-4.60)	<0.01
Respiratory isolation	2.51 (0.53-11.71)	0.24

\* All diagnoses at admission (sepsis, cardiovascular, respiratory, neurological, gastrointestinal, and emergency surgery) at admission were grouped, except elective surgery. SWIFT - Stability and Workload Index for Transfer; SOFA - Sequential Organ Failure Assessment; CRP - C-reactive protein; BD - base deficit; ScvO<sub>2</sub> - central venous oxygen saturation; SAPS 3 - Simplified Acute Physiology Score 3.