

**S2 Table.**

Comparison of the marginal effects between the Clinical Prediction Rule (CPR) and the two-stage Heckman model

Predictor	Marginal effects from the CPR (95% CI)	Marginal effects from the 2-stage Heckman model (95% CI)	Marginal effect absolute differences
Hypoxemic respiratory failure			
yes	0.36 (0.27-0.44)	0.40 (0.29-0.51)	0.04
no	0.13 (0.09-0.16)	0.18 (0.14-0.22)	0.05
difference	0.23	0.22	0.01
Age ≥50 years old			
yes	0.24 (0.19-0.29)	0.29 (0.23-0.35)	0.05
no	0.12 (0.08-0.15)	0.16 (0.12-0.21)	0.04
difference	0.12	0.13	0.01
Bilateral lung involvement			
yes	0.22 (0.18-0.25)	0.25 (0.20-0.29)	0.03
no	0.12 (0.07-0.16)	0.17 (0.12-0.22)	0.05
difference	0.10	0.08	0.02
At least 1 significant comorbidity <sup>a</sup>			
yes	0.22 (0.18-0.27)	0.26 (0.21-0.31)	0.04
no	0.13 (0.09-0.17)	0.19 (0.13-0.24)	0.06
difference	0.09	0.07	0.02
Hemoglobin <12 g/dL			
yes	0.21 (0.17-0.25)	0.26 (0.21-0.32)	0.05
no	0.14 (0.10-0.18)	0.18 (0.13-0.22)	0.04
difference	0.07	0.08	0.01

<sup>a</sup>At least one of these comorbidities: HIV infection, diabetes mellitus, liver failure or cirrhosis, congestive heart failure and chronic respiratory disease. CI - confidence interval