

ONLINE SUPPLEMENTARY MATERIAL

Supplementary Table 1.

Lung ultrasound findings at admission.

Area	Score	Affected areas (%)	Area	Score	Affected areas (%)	Area	Score	Affected areas (%)
1	0	25 (12.5)	7	0	61 (30.5)	11	0	85 (42.5)
	1	76 (38)		1	89 (44.5)		1	81 (40.5)
	2	96 (48)		2	49 (24.5)		2	33 (16.5)
	3	3 (1.5)		3	1 (0.5)		3	1 (0.5)
2	0	35 (17.5)	8	0	66 (33)	12	0	78 (39)
	1	65 (32.5)		1	79 (39.5)		1	76 (38)
	2	98 (49)		2	53 (26.5)		2	44 (22)
	3	2 (1)		3	2 (1)		3	2 (1)
3	0	65 (32.5)	9	0	51 (25.5)	13	0	100 (50)
	1	101 (50.5)		1	99 (49.5)		1	84 (42)
	2	33 (16.5)		2	50 (25)		2	16 (8)
	3	1 (0.5)		3	0 (0)		3	0 (0)
4	0	29 (14.5)	10	0	59 (29.5)	14	0	95 (47.5)
	1	72 (36)		1	82 (41)		1	64 (32)
	2	96 (48)		2	57 (28.5)		2	40 (20)
	3	3 (1.5)		3	2 (1)		3	1 (0.5)
5	0	33 (16.5)						
	1	76 (38)						
	2	88 (44)						
	3	3 (1.5)						
6	0	86 (43)						
	1	87 (43.5)						
	2	27 (13.5)						
	3	0 (0)						
Posterior	0	273 (22.8)	Lateral	0	237 (29.6)	Anterior	0	358 (44.8)
	1	477 (39.8)		1	349 (43.6)		1	305 (38.1)
	2	438 (36.5)		2	209 (26.1)		2	133 (16.6)
	3	12 (1)		3	5 (0.625)		3	4 (0.5)
Total	0	868 (31)						
	1	1131 (40.3)						
	2	780 (27.9)						
	3	21 (0.8)						

Supplementary Table 2.

Correlations between the LUS score at admission and clinical and laboratory variables.

Variable	Pearson Correlation
Worst SpO ₂ /FiO ₂ ratio	-0.659
SpO ₂ /FiO ₂ ratio at admission	-0.461
ROX index at admission	-0.329
Lymphocytes	-0.171
Platelets	-0.085
Interleukine-6	0.433
Lactate deshydrogenase	0.304
C-Reactive protein	0.300
Aspartase transaminase	0.214
Ferritin	0.183
Bilirubin	0.123
Fibrinogen	0.116
Urea	0.105
Creatinine	0.105
D-dimer	0.099
Alanin transaminase	0.078
Leukocytes	0.063
Haemoglobin	0.035

ROX index= (SpO₂/FiO₂) / Respiratory Rate

Supplementary Figure 1. AUC-ROC of LUS score at admission for the primary end-point.

^aPrimary endpoint: clinical deterioration defined as need for intensive respiratory support (high-flow oxygen or invasive mechanical ventilation).

^bLUS score cut-off: 17 points. AUC 0.95; sensitivity 97.14% (95%CI 85.08-99.93); specificity 84.85% (95%CI 78.45-89.95); positive predictive value 57.63% (95%CI 44.07-70.39); negative predictive value 99.29% (95%CI 96.11-99.98)