ADDITIONAL FILE 2: Data on external scores

Calculation of the SOFA score

Table 1: The SOFA score

SOFA score	0	1	2	3	4
Respiration PaO_2/FIO_2 (mm Hg)	>400	<400	<300	<200[a]	<100[a]
Coagulation Platelets $x10^3/mm^3$	>150	<150	<100	<50	<20
Liver Bilirubin (mg/dL)	<1.2	1.2-1.9	2.0-5.9	6.-11.9	>12.0
Cardiovascular[b] Hypotension	No hypotension	MAP <70	Dopamine ≤5 or dobutamine (any dose)	Dopamine >5 or norepinephrine /epinephrine ≤0.1	Dopamine >15 or norepinephrine/ epinephrine >0.1
CNS[c] Glasgow Coma Score	15	13-14	10-12	6-9	<6
Renal Creatinine (mg/dL) or urine output (mL/day)	<1.2	1.2-1.9	2.0-3.4	3.5-4.9 or <500	>5.0 or <200

MAP mean arterial pressure, *CNS* central nervous system.

[a]with respiratory support

[b]vasoactive mediations administered for at least 1 hr (doses are given in ug/kg/min)

[c]as we do not know the "real" Glasgow Coma Scale in intubated patients, the Glasgow Coma Scale was set to 15 (=SOFA score 0) for all patients.

Reprinted with kind permission from Springer Science+Business Media: Intensive care medicine, The SOFA (Sepsis-related Organ Failure Assessment) score to describe organ dysfunction/failure. On behalf of the Working Group on Sepsis-Related Problems of the European Society of Intensive Care Medicine, Vol. 22, 1996, pp. 707-710, Vincent JL, Moreno R, Takala J, Willatts S, De Mendonca A, Bruining H, Reinhart CK, Suter PM, Thijs LG, Table 3.

Calculation of the ECMOnet score

In accordance with the original manuscript, the ECMOnet score for each individual was calculated with the following formula where ps_i is the partial score assigned to each of the 5 parameters as given in Table 2:

$$ECMOnet\ score = \left(\sum_{i=1}^{5} ps_i\right) - 1$$

Table 2: The ECMOnet score

PARAMETER	PARTIAL SCORE (ps_i)
1) PreECMO hospital length of stay, days	
≤ 3	0.5
4 - 7	1
8 - 11	1.5
> 11	2
2) Bilirubin, mg/dl	
≤ 0.15	0
0.16 - 0.65	0.5
0.66 - 1.15	1
1.16 - 1.65	1.5
1.66 - 2.15	2
> 2.15	2.5
3) Creatinine, mg/dl	
≤ 0.5	0
0.51 - 0.80	0.5
0.81 - 1.10	1
1.11 - 1.40	1.5
1.41 - 1.70	2
1.71 - 2.00	2.5
2.01 - 2.30	3
> 2.30	3.5
4) Hematocrit, %	
> 40	0.5
36 - 40	1
31 - 35	1.5
≤ 30	2.0
5) Mean arterial pressure, mmHg	
> 90	0
61 - 90	0.5
≤ 60	1

ECMO extracorporeal membrane oxygenation

<u>Calculation of the PRESERVE score</u>

Table 3: The PRESERVE score calculated with parameters available at the time of decision to initiate ECMO

Parameter	Score
Age (years)	
<45	0
45–55	2
>55	3
Body mass index >30	−2
Immunocompromised	2
SOFA >12[a]	1
MV >6 days	1
No prone positioning before ECMO	1
PEEP < 10 cm H_2O	2
Plateau pressure >30 cm H_2O	2
Total score[c]	0–12

ECMO extracorporeal membrane oxygenation, *ICU* intensive care unit, *MV* mechanical ventilation, *PEEP* positive end-expiratory pressure, *PRESERVE* PRedicting dEath for SEvere ARDS on VV-ECMO, *SAPS II* simplified acute physiology score, *SOFA* sepsis-related organ failure assessment

[a]Immunocompromised status included hematological malignancies, solid tumors, solid organ transplantation, high-dose or long-term corticosteroid and/or immunosuppressant use, or human immunodeficiency virus infection

[b]SOFA score was preferred over SAPS II (excluding the age component) for simpler use of the score at the bedside

[c]Higher score indicates higher probability of death by 6 months post-ICU discharge; PRESERVE scores −1 and −2 converted to 0 for simplification