Table S1 Description of collected variables

Variable	Category	Description	
Age	Interval scale	Documented in years. From clinic information system.	
BMI	Interval scale	Body Mass Index. Calculated from weight (in kilograms) divided by size (in meters) as square root.	
Sex	Nominal Dichotomous	- Female - Male	
SAPS II	Ordinal	Simplified Acute Physiology Score II documented during intensive care. Score between 0 and points. From clinic information system.	
Charlson comorbidity index	Ordinal	 Score between 0 and 37. Clinical conditions and associated points based on medical records: 1 each: Myocardial infarction, congestive heart failure, peripheral vascular disease, dementia, cerebrovascular disease, chronic lung disease, connective tissue disease, ulcer, chronic liver disease, diabetes. 2 each: Hemiplegia, moderate or severe kidney disease, diabetes with end organ damage, tumor, leukemia, lymphoma. 3 each: Moderate or severe liver disease. 6 each: Malignant tumor, metastasis, AIDS. 	
Coronary artery disease	Nominal Dichotomous	International Classification of Diseases (ICD) diagnosis or history of myocardial infarction (ECG changes and/or enzyme changes). - yes or no	
Congestive heart failure	Nominal Dichotomous	ICD diagnosis of congestive heart failure. - yes or no	
Obstructive pulmonary disease	Nominal Dichotomous	ICD diagnosis of chronic obstructive pulmonary disease. - yes or no	
Diabetes mellitus	Nominal Dichotomous	ICD diagnosis of Type I or II diabetes mellitus. - yes or no	
Chronic kidney disease	Nominal Dichotomous	On dialysis, status post kidney transplant, uremia, or creatinine >3 mg/dL (0.27 mmol/L). - yes or no	
Hemoglobin	Interval scale	Laboratory value in in g/l.	
Lactate	Interval scale	Laboratory value in mmol/l.	
Myoglobin	Interval scale	Laboratory value in µg/l.	
Creatinine	Interval scale	Laboratory value in µmol/L.	
External insertion	Nominal Dichotomous	ECMO insertion by ECMO-Team of University Hospital Zurich (USZ), Switzerland in another hospital before transfer to USZ for definitive care. - yes or no	
Insertion technique	Nominal	Documented insertion of ECMO cannula. - Seldinger peripheral - Surgical peripheral, "cut-down", vascular graft - Central	
ECMO outcome	Nominal	After ECMO system stop. - Dead - Successful weaning - Bridge to assist device - Bridge to transplant	
Erythrocyte concentrate	Interval scale	Number of EC transfusions. From clinic information system.	
Fresh frozen plasma	Interval scale	Number of FFP transfusions. From clinic information system.	
Platelet concentrate	Interval scale	Number of PC transfusions. From clinic information system.	
Major bleeding	Nominal Dichotomous	Condition during intensive care and ECMO support which requires substitution of coagula factors or blood product transfusion or surgery/intervention. - yes or no	
Intra-cranial bleeding	Nominal Dichotomous	ICD diagnosis documented during intensive care and ECMO support. - yes or no	
Stroke	Nominal Dichotomous	ICD diagnosis documented during intensive care and ECMO support yes or no	
Liver failure	Nominal Dichotomous	ICD diagnosis documented during intensive care and ECMO support. Includes NOT liver insufficiency or solely elevated liver laboratory values. - yes or no	
Renal replacement therapy	Nominal Dichotomous	Condition during intensive care and ECMO support which required (continuous) renal replacement therapy. - yes or no	
Ischemia extremities	Nominal	Documented ischemia of an extremity in relation to ECMO cannulation.	

Ischemia intestinal	Nominal	Documented intestinal ischemia during intensive care and ECMO support. Also includes Non-
	Dichotomous	occlusive mesenteric ischemia (NOMI).
		- yes or no

Length ECMO Interval scale Duration of ECMO support in (calendar)	days.
---	-------

- Length ventilation Interval scale Duration of mechanical ventilation in (calendar) days.
- Length ICU Interval scale Duration of intensive care in (calendar) days.
- Length of stay Interval scale Duration of overall hospital stay in (calendar) days. From clinic information system.

BMI, body mass index; SAPS, Simplified Acute Physiology Score; ECMO, extracorporeal membrane oxygenation; ICU, intensive care unit.

© Journal of Thoracic Disease. All rights reserved.

https://dx.doi.org/10.21037/jtd-22-1273

Table S2 Logistic regression model with SAPS II	Table S2	Logistic	regression	model	with	SAPS II
---	----------	----------	------------	-------	------	---------

Predictor variables	Odds ratio	95% confidence interval	P value
SAPS II (per point)	1.0	0.98 to 1.02	0.96
Age (per year)	1.05	1.02 to 1.08	0.001
Indication			
ARDS	Reference		
Bridge to lung transplantation	1.76	0.38 to 7.53	0.45
Primary graft dysfunction after LTX	1.77	0.08 to 17.13	0.65
Other pulmonary disease	1.57	0.63 to 3.93	0.33
Transfusions			
Red blood cells (0.1 unit/day)	1.96	1.40 to 2.86	< 0.001
Fresh frozen plasma (0.1 unit/day)	1.87	0.68 to 5.87	0.29
Platelet concentrate (0.1 unit/day)	1.84	1.22 to 3.05	0.008
Newly developed liver failure	4.75	1.19 to 21.08	0.03

ARDS, acute respiratory distress syndrome; LTX, lung transplantation.

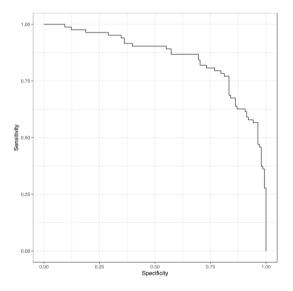


Figure S1 Receiver operating characteristic curve for the logistic regression model. In-sample receiver operating characteristic (ROC) curve that corresponds to our model. The area under the curve (AUC) belonging to that curve is 0.85 with a 95 % confidence interval from 0.8 to 0.91.