

Table S1 PubMed retrieval process

Search	Details	Results
#1	lung transplantation[Mesh Terms]	18788
#2	lung transplantation[Title/Abstract]	16697
#3	(#1) OR (#2)	23489
#4	extracorporeal membrane oxygenation[Mesh Terms]	15259
#5	(((((extracorporeal membrane oxygenation[Title/Abstract]) OR (Extracorporeal Membrane Oxygenations[Title/Abstract])) OR (Membrane Oxygenation, Extracorporeal[Title/Abstract])) OR (Oxygenation, Extracorporeal Membrane[Title/Abstract])) OR (ECMO Treatment[Title/Abstract]) OR (ECMO Treatments[Title/Abstract])) OR (Treatment, ECMO[Title/Abstract]) OR (ECLS Treatment[Title/Abstract]) OR (ECLS Treatments[Title/Abstract]) OR (Treatment, ECLS[Title/Abstract]) OR (ECMO Extracorporeal Membrane Oxygenation[Title/Abstract]) OR (Extracorporeal Life Support[Title/Abstract]) OR (Extracorporeal Life Supports[Title/Abstract]) OR (Life Support, Extracorporeal[Title/Abstract]) OR (Venoarterial ECMO[Title/Abstract]) OR (ECMO, Venoarterial[Title/Abstract]) OR (Venoarterial ECMOs[Title/Abstract]) OR (Venoarterial Extracorporeal Membrane Oxygenation[Title/Abstract]) OR (Venovenous ECMO[Title/Abstract]) OR (ECMO, Venovenous[Title/Abstract]) OR (Venovenous ECMOs[Title/Abstract]) OR (Venovenous Extracorporeal Membrane Oxygenation[Title/Abstract]) OR (extracorporeal carbon dioxide removal[Title/Abstract]) OR (extracorporeal lung assist[Title/Abstract]) OR (extracorporeal lung[Title/Abstract] AND heart assist[Title/Abstract]) OR (extracorporeal life support[Title/Abstract]) OR (extracorporeal cardio-pulmonary resuscitation[Title/Abstract]) OR (extracorporeal life support organization[Title/Abstract]) OR (assistant respiratory extracorporeal[Title/Abstract]) OR (intravenous blood gas exchange[Title/Abstract]) OR (intravenous oxygenator[Title/Abstract]) OR (extrapulmonary blood gas exchange[Title/Abstract]) OR (percutaneous cardiopulmonary support[Title/Abstract])	19707
#6	(#4) OR (#5)	23304
#7	(#3) AND (#6)	1239

ECMO, extracorporeal membrane oxygenation; ECLS, extracorporeal life support.

Table S2 Cochrane Library retrieval process

Search	Details	Results
#1	(lung transplantation):ab,ti,kw	2107
#2	MeSH descriptor:[Lung Transplantation] explode all trees	380
#3	#1OR #2	2107
#4	MeSH descriptor:[Extracorporeal Membrane Oxgenation] explode all trees	295
#5	(extracorporeal membrane oxygenation):ab,ti,kw OR (extracorporeal carbon dioxide removal):ab,ti,kw OR (extracorporeal lung assist):ab,ti,kw OR (extracorporeal lung and heart assist):ab,ti,kw OR (extracorporeal life support):ab,ti,kw OR (extracorporeal cardio-pulmonary resuscitation):ab,ti,kw OR (extracorporeal life support organization):ab,ti,kw OR (assistant respiratory extracorporeal):ab,ti,kw OR (intravenous blood gas exchange):ab,ti,kw OR (intravenous oxygenator):ab,ti,kw OR (extrapulmonary blood gas exchange):ab,ti,kw OR (percutaneous cardiopulmonary support):ab,ti,kw	1459
#6	#4 OR #5	1459
#7	#3 AND #6	49

Table S3 Web of science retrieval process

Search	Details	Results
1	lung transplantation (Topic)	86578
2	extracorporeal membrane oxygenation (Topic) OR extracorporeal carbon dioxide removal (Topic) OR extracorporeal lung assist (Topic) OR extracorporeal lung and heart assist (Topic) OR extracorporeal life support (Topic) OR extracorporeal cardio-pulmonary resuscitation (Topic) OR extracorporeal life support organization (Topic) OR assistant respiratory extracorporeal (Topic) OR intravenous blood gas exchange (Topic) OR intravenous oxygenator (Topic) OR extrapulmonary blood gas exchange (Topic) OR percutaneous cardiopulmonary support (Topic)	37432
3	#1AND #2	2884

Table S4 Embase retrieval process

Search	Details	Results
#1	'lung transplantation'/exp:ab,ti OR 'lung transplantation'	59616
#2	'lung transplantation':ab,ti	27880
#3	#1 OR #2	59616
#4	'extracorporeal membrane oxygenation'/exp:ab,ti OR 'extracorporeal membrane oxygenation'	42437
#5	'extracorporeal membrane oxygenation':ab,ti OR 'extracorporeal carbon dioxide removal':ab,ti OR 'extracorporeal lung assist':ab,ti OR 'extracorporeal lung and heart assist':ab,ti OR 'extracorporeal life support':ab,ti OR 'extracorporeal cardio-pulmonary resuscitation':ab,ti OR 'extracorporeal life support organization':ab,ti OR 'assistant respiratory extracorporeal':ab,ti OR 'intravenous blood gas exchange':ab,ti OR 'intravenous oxygenator':ab,ti OR 'extrapulmonary blood gas exchange':ab,ti OR 'percutaneous cardiopulmonary support ':ab,ti	28198
#6	#4 OR #5	46715
#7	#3 OR #6	3753

Table S5 Proquest retrieval process

Search	Details	Results
S1	AB, TI(lung transplantation)	7968
S2	AB, TI("extracorporeal carbon dioxide removal" OR "extracorporeal lung assist" OR "extracorporeal lung and heart assist" OR "extracorporeal life support" OR "extracorporeal cardio-pulmonary resuscitation" OR "extracorporeal life support organization" OR "assistant respiratory extracorporeal" OR "intravenous blood gas exchange" OR "intravenous oxygenator" OR "extrapulmonary blood gas exchange" OR "percutaneous cardiopulmonary support " OR "Extracorporeal Membrane Oxygenations" OR "Membrane Oxygenation, Extracorporeal" OR "Oxygenation, Extracorporeal Membrane" OR "ECMO Treatment" OR "ECMO Treatments" OR "Treatment, ECMO" OR "ECLS Treatment" OR "ECLS Treatments" OR "Treatment, ECLS" OR "ECMO Extracorporeal Membrane Oxygenation" OR "Extracorporeal Life Support" OR "Extracorporeal Life Supports" OR "Life Support, Extracorporeal" OR "Venoarterial ECMO" OR "ECMO, Venoarterial" OR "Venoarterial ECMOs" OR "Venoarterial Extracorporeal Membrane Oxygenation" OR "Venovenous ECMO" OR "ECMO, Venovenous" OR "Venovenous ECMOs" OR "Venovenous Extracorporeal Membrane Oxygenation")	2141
S3	[S1] AND [S2]	58

ECMO, extracorporeal membrane oxygenation; ECLS, extracorporeal life support

Table S6 CINAHL retrieval process

Search	Details	Results
S1	SU lung transplantation[mesh] OR lung transplantation	94089
S2	SU (extracorporeal membrane oxygenation OR extracorporeal carbon dioxide removal OR extracorporeal lung assist OR extracorporeal lung and heart assist OR extracorporeal cardio-pulmonary resuscitation OR extracorporeal life support organization OR assistant respiratory extracorporeal OR intravenous blood gas exchange OR intravenous oxygenator OR extrapulmonary blood gas exchange OR percutaneous cardiopulmonary support OR Extracorporeal Membrane Oxygenations OR Membrane Oxygenation, Extracorporeal OR Oxygenation, Extracorporeal Membrane OR ECMO Treatment OR ECMO Treatments OR Treatment, ECMO OR ECLS Treatment OR ECLS Treatments OR Treatment, ECLS OR ECMO Extracorporeal Membrane Oxygenation OR Extracorporeal Life Support OR Extracorporeal Life Supports OR Life Support, Extracorporeal OR Venoarterial ECMO OR ECMO, Venoarterial OR Venoarterial ECMOs OR Venoarterial Extracorporeal Membrane Oxygenation OR Venovenous ECMO OR ECMO, Venovenous OR Venovenous ECMOs OR Venovenous Extracorporeal Membrane Oxygenation)	42821
S3	[S1] AND [S2]	2918

ECMO, extracorporeal membrane oxygenation; ECLS, extracorporeal life support

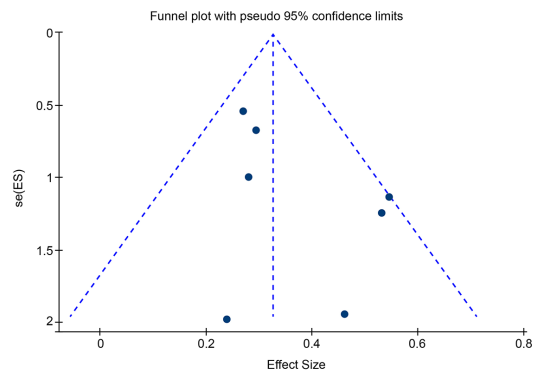


Figure S1 Funnel plot for mortality rate. se, standard error; ES, effect size.

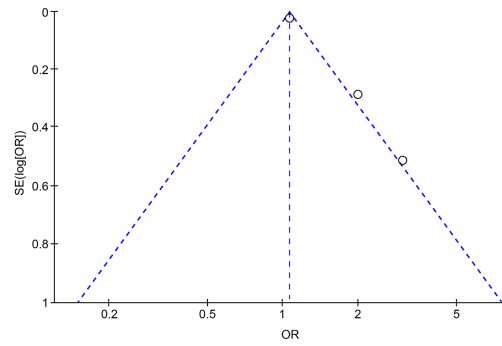


Figure S2 Funnel plot for prolonged ECMO support. SE, standard error; OR, odds ratio; ECMO, extracorporeal membrane oxygenation.

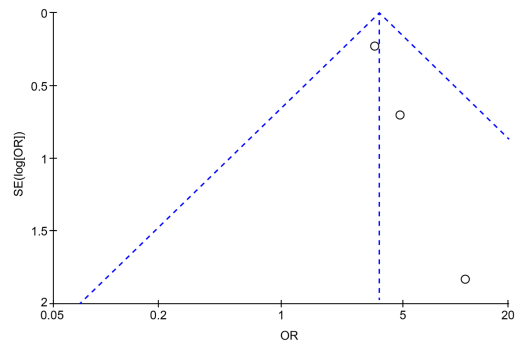


Figure S3 Funnel plot for deterioration of liver and kidney function. SE, standard error; OR, odds ratio.

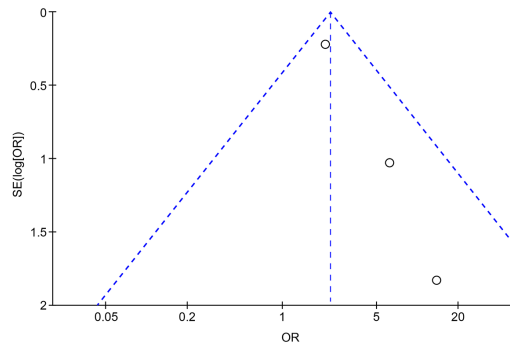


Figure S4 Funnel plot for complications during ECMO. SE, standard error; OR, odds ratio; ECMO, extracorporeal membrane oxygenation.