

Appendix I

Search strategy

We systematically searched Pubmed, Medline, and Embase, with no language restriction, for studies on whether intraoperative extracorporeal membrane oxygenation (ECMO) outperformed cardiopulmonary bypass (CPB) for lung transplantation on cardiopulmonary support. The search was performed from database commencement to December 2015. Our core search consisted of terms related to extracorporeal membrane oxygenation and cardiopulmonary bypass, combined with lung transplantation. The details of search are as followings,

PubMed search from database commencement to December 2016

	Search	Field	Limit	No. of papers
#1	Lung transplantation	Text Word	--	16501
#2	Extracorporeal membrane oxygenation	Text Word	--	9248
#3	Cardiopulmonary bypass	Text Word	--	34570
#4	Search #1, #2 and #3	Text Word	--	61

Medline search from database commencement to December 2016

	Search	Field	Limit	No. of papers
#1	Lung transplantation	Text	Humans	41657
#2	Extracorporeal membrane oxygenation	Text	Humans	9051
#3	Cardiopulmonary bypass	Text	Humans	34534
#4	Search #1, #2 and #3	Text	Humans	75

1 Embase search from database commencement to December 2016

	Search	Field	Limit	No. of papers
#1	Lung transplantation	Text Word	Humans	13325
#2	Extracorporeal membrane oxygenation	Title/Abstract	Humans	6747
#3	Cardiopulmonary bypass	Title/Abstract	Humans	24814
#4	Search #1, #2 and #3	Title/Abstract	Humans	57

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4 After initial screening based on abstracts, a total seven paper were selected.

	Medline	Embase	PubMed
Yu et al, 2016	x		x
Akarsu et al, 2016	x		x
Ius et al, 2016	x		x
Hoechter et al, 2015		x	x
Machuca et al, 2015		x	
Bermudez et al, 2014	x	x	x
Biscotti et al, 2014	x		x
Ius et al, 2012	x	x	x
Bittner et al, 2007	x	x	x
Ko et al, 2001	x	x	x

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We scrutinized all articles. Since the study of Yu et al, Akarsu et al, Ius et al and, Ko et al do not meet the selection criteria, we excluded it in our analysis.

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