

Supplementary Table 1. Search terms used to search MEDLINE and Embase results of systematic searches broken down by individual term

	Search terms: Liver support systems	Number of results (Medline)	Number of results (Embase)
1	PHLF	125	351
2	Post Hepatectomy Liver Failure	110	320
3	Hepatectomy AND Liver Failure	1710	3106
4	Liver Support System	303	1845
5	Extracorporeal Liver Support	194	882
6	MARS	4854	7196
7	Molecular Adsorbent Recirculating System	239	413
8	Plasma exchange	8961	14965
9	Plasmapheresis	11792	37628
10	Prometheus	325	1020
11	Bio-artificial Liver Support System	77	132
12	1 OR 2 OR 3	1728	3189
13	4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11	24641	53004
14	12 AND 13	39	57

Supplementary Table 2. Risk of bias of the included studies

Study	Bias domain							Overall bias
	Confounding	Selection	Intervention classification	Deviation from intended intervention	Missing data	Measurement of outcomes	Selection of reported result	
Asanuma et al. (2003) ²³	Low	Low	Moderate	N/A	Low	Low	Low	Low
Chiu et al. (2006) ¹⁸	Moderate	Moderate	Low	N/A	Low	Low	Low	Moderate
Gilg et al. (2018) ¹⁹	Low	Low	Low	N/A	Low	Low	Low	Low
Lee et al. (2017) ²⁴	Moderate	Serious	Low	Low	Low	Low	Low	Moderate
Rusu et al. (2009) ²⁰	Moderate	Moderate	Low	Moderate	Serious	Moderate	Low	Serious
Saliba et al. (2013) ²¹	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Usami et al. (1989) ²⁵	Moderate	Low	Low	Moderate	Low	Low	Low	Low
van de Kerkhove et al. (2003) ²²	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Yonekawa et al. (2005) ²⁶	Moderate	Low	Low	Moderate	Low	Low	Low	Low