

Table S1 Quality assessment of studies included in the meta-analysis

Studies	Total score	Selection				Comparability		Outcome		
		Exposed cohort selection	Non-exposed cohort selection	Ascertainment of exposure	Outcome was not present at start of study	Select the most important factor	Controls for any additional factor	Assessment of outcome	Follow-up long enough	Adequacy of follow up of cohorts
Abbott 2012	9	1	1	1	1	1	1	1	1	1
Alexandrescu 2012	7	1	1	1	1	1	1	1	0	0
Brouquet 2010	8	1	1	1	1	1	1	1	0	1
Capussotti 2007	8	1	1	1	1	1	0	1	1	1
Chua 2004	6	1	1	1	1	1	0	1	0	0
de Haas 2010	9	1	1	1	1	1	1	1	1	1
Hu 2013	8	1	1	1	1	1	0	1	1	1
Luo 2010	6	1	1	1	1	1	0	1	0	0
Martin 2003	7	1	1	1	1	1	1	1	0	0
Martin 2009	7	1	1	1	1	1	1	1	0	0
Mayo 2013	8	1	1	1	1	1	1	1	1	0
Moug 2010	7	1	1	1	1	1	1	1	0	0
Reddy 2007	6	1	1	1	1	1	0	1	0	0
Slupski 2009	6	1	1	1	1	1	0	1	0	0
Tanaka 2004	7	1	1	1	1	1	0	1	1	0
Thelen 2007	8	1	1	1	1	1	1	1	1	0
Turrini 2007	8	1	1	1	1	1	0	1	1	1
Vassiliou 2007	6	1	1	1	1	1	0	1	0	0
Wang 2008	8	1	1	1	1	1	1	1	1	0
Weber 2003	7	1	1	1	1	1	0	1	1	0
Xu 2009	7	1	1	1	1	1	0	1	1	0
Yan 2007	6	1	1	1	1	1	0	1	0	0
Vigano 2011*	5	0	0	1	1	1	0	1	1	0
van der Pool 2010*	4	0	0	1	1	1	0	1	0	0

Exposed cohort: patients received simultaneous resection.

Non-exposed cohort: patients received staged resection.

Ascertainment of exposure: patients' information came from reliable medical records.

Outcome was not present at start of study: patients received no colorectal or hepatic surgery before.

Select the most important factor: the study compared short-term and/or long-term outcomes between simultaneous and staged resection groups.

Controls for any additional factor: in the study, univariate and multivariate analysis was conducted to exclude the potential confounders.

Assessment of outcome: patients' information came from reliable medical records; perioperative mortality contained death in at least 30 days after the hepatectomy; if long-term survival was reported, it should be in the form of survival curves or 1, 3, 5-year rates.

Follow-up long enough: median or mean follow-up was considered long enough at least 30 months.

Adequacy of follow up of cohorts: the lost of follow up was reported, and was lower than 20%.

Quality of studies was considered high with NOS score ≥ 6 . The studies with NOS score < 6 were considered low quality, and would not be included in meta-analysis.

*: studies excluded because of the low quality.