

Table S2 Summarized prognostic factors for SCRLM within studies included

Studies	Total patients	Analysis for	Prognostic factors			
			Simultaneous resection		Delayed resection	
			Significant factors	Analysis	Significant factors	Analysis
Abbott 2012	144		-	No analysis	-	No analysis
Alexandrescu 2012	142		-	No analysis	-	No analysis
Brouquet 2010	115	OS	Liver tumor size > 3cm Need for a second line of preoperative chemotherapy			Univariate
			Liver tumor size > 3cm			Multivariate
Capussotti 2007	127	OS	Male sex T4 Multiple metastases Liver metastases \geq 4 Metastatic infiltration of nearby structures	Univariate	None	Univariate
			Male sex T4 Liver metastases \geq 4 Metastatic infiltration of nearby structures	Multivariate	None	Multivariate
Chua 2004	96	-	-	No analysis	-	No analysis
de Haas 2010	228	R	Liver metastases \geq 3 Bilobar distribution Initially unresectable metastases Preop. chemotherapy Timing of liver resection Extrahepatic disease Non-anatomical resection Margin involved Postop. chemotherapy			Univariate
			Liver metastases \geq 3 Initially unresectable Timing of liver resection			Multivariate
Hu 2013	53	-	-	No analysis	-	No analysis
Luo 2010	405	CM	None			Univariate
			None			Multivariate
Martin 2003	240	CM	Pulmonary history Past abdominal surgery Extent hepatic resection \geq lobectomy Timing of liver resection Type of liver resection			Univariate

			Pulmonary history Past abdominal surgery Timing of liver resection			Multivariate
Martin 2009	230	CM	Blood transfusion Extent hepatic resection \geq lobectomy Type of liver resection/ablation			Univariate
			Blood transfusion			Multivariate
Mayo 2013	976	CM	Largest CRLM >3.5 cm Major hepatic resection			Univariate
			Bilateral hepatic disease Major hepatic resection			Multivariate
		OS	Male sex Rectal primary >2 Colorectal liver metastases Minor hepatic resection Combined resection \neq ablation			Univariate
			Male sex Rectal primary Minor hepatic resection Combined resection \neq ablation			Multivariate
Moug 2010	64	-	-	No analysis	-	No analysis
Reddy 2007	610	CM	Liver metastases ≥ 4	Univariate	-	No analysis
Slupski 2009	89	-	-	No analysis	-	No analysis
Tanaka 2004	76	OS	Resected liver volume Age ≥ 70 years Poorly differentiated primary/ mucinous adenocarcinoma	Univariate	Duration of operation	Univariate
			Poorly differentiated primary/ mucinous adenocarcinoma	Multivariate	None	Multivariate
Thelen 2007	219	OS	Extent hepatic resection \geq lobectomy	Univariate	Extent hepatic resection \geq lobectomy Margin involved Liver metastases ≥ 4 Node-positive primary	Univariate
			None	Multivariate	Node-positive primary Liver metastases ≥ 4 Margin involved	Multivariate
Turrini 2007	119	OS	None	None		Univariate
Vassiliou 2007	103	-	-	No analysis	-	No analysis

Wang 2008	83	-	-	No analysis	-	No analysis
Weber 2003	97	OS	None			Univariate
Xu 2009	175	-	-	No analysis	-	No analysis
Yan 2007	103	-	-	No analysis	-	No analysis

Only statistically significant factors ($P < 0.05$) were listed in the table.

OS, Overall survival; CM, Complication morbidity; R, Recurrence.

No analysis, No univariate or multivariate analysis was conducted in the study.

None, univariate or multivariate was conducted in the analysis, but no statistically significant factors were found.