

Table S1. Search strategies.

PUBMED	LINE	SEARCH TERM
	1	((((((((neoplasm, residual[MeSH Terms]) OR (neoplasm, residual[Title/Abstract])) OR (Minimal Residual Disease*[Title/Abstract])) OR (Residual Disease, Minimal[Title/Abstract])) OR (Residual Minimal Disease*[Title/Abstract])) OR (Residual Tumor*[Title/Abstract])) OR (Residual Cancer*[Title/Abstract])) OR (Tumour, Residual[Title/Abstract])) OR (Cancer, Residual[Title/Abstract])
	2	((((((((Lymphoma, Mantle-Cell[MeSH Terms]) OR (Lymphoma, Mantle-Cell[Title/Abstract])) OR (Lymphoma, Mantle Cell[Title/Abstract])) OR (Lymphomas, Mantle-Cell[Title/Abstract])) OR (Mantle-Cell Lymphoma[Title/Abstract])) OR (Mantle Cell Lymphoma[Title/Abstract])) OR (MCL[Title/Abstract])
	3	1 AND 2
EMBASE	LINE	SEARCH TERM
	1	'lymphoma, mantle-cell'/exp
	2	'lymphoma, mantle-cell':ab,ti OR 'lymphoma, mantle cell':ab,ti OR 'lymphomas, mantle-cell':ab,ti OR 'mantle-cell lymphoma':ab,ti OR 'mantle cell lymphoma':ab,ti OR mcl:ab,ti
	3	#1 OR #2
	4	'neoplasm, residual'/exp
	5	'neoplasm, residual':ab,ti OR 'minimal residual disease*':ab,ti OR 'residual disease, minimal':ab,ti OR 'residual minimal disease*':ab,ti OR 'residual tumor*':ab,ti OR 'residual cancer*':ab,ti OR 'tumour, residual':ab,ti OR 'cancer, residual':ab,ti
	6	#4 OR #5
	7	#3 AND #6
	8	'meta' OR 'systematic analysis' OR 'review'/exp
	9	'animal'/exp NOT 'human'/exp
	10	'clinical trial':ab,ti OR 'randomized clinical trial':ab,ti OR 'prospective study':ab,ti OR 'prospective trial':ab,ti OR 'clinical study':ab,ti OR 'cohort study':ab,ti
	11	#7 NOT #8

	12	#11 NOT #9
WEB OF SCIENCE	LINE	SEARCH TERM
	1	TS=('Lymphoma, Mantle-Cell' OR 'Lymphoma, Mantle Cell' OR 'Lymphomas, Mantle-Cell' OR 'Mantle-Cell Lymphoma' OR 'Mantle Cell Lymphoma' OR 'MCL')
	2	TI=('Lymphoma, Mantle-Cell' OR 'Lymphoma, Mantle Cell' OR 'Lymphomas, Mantle-Cell' OR 'Mantle-Cell Lymphoma' OR 'Mantle Cell Lymphoma' OR 'MCL')
	3	AB=('Lymphoma, Mantle-Cell' OR 'Lymphoma, Mantle Cell' OR 'Lymphomas, Mantle-Cell' OR 'Mantle-Cell Lymphoma' OR 'Mantle Cell Lymphoma' OR 'MCL')
	4	#1 OR #2 OR #3
	5	TS=('neoplasm, residual' OR 'Minimal Residual Disease*' OR 'Residual Disease, Minimal' OR 'Residual Minimal Disease*' OR 'Residual Tumor*' OR 'Residual Cancer*' OR 'Tumor, Residual' OR 'Cancer, Residual')
	6	TI=('neoplasm, residual' OR 'Minimal Residual Disease*' OR 'Residual Disease, Minimal' OR 'Residual Minimal Disease*' OR 'Residual Tumor*' OR 'Residual Cancer*' OR 'Tumor, Residual' OR 'Cancer, Residual')
	7	AB=('neoplasm, residual' OR 'Minimal Residual Disease*' OR 'Residual Disease, Minimal' OR 'Residual Minimal Disease*' OR 'Residual Tumor*' OR 'Residual Cancer*' OR 'Tumor, Residual' OR 'Cancer, Residual')
	8	#5 OR #6 OR #7
	9	#4 AND #8
	10	TS=(animal* NOT human*)
	11	TS=(meta OR systematic analysis OR review)
	12	#9 NOT #10
13	#12 NOT #11	
THE COCHR	LINE	SEARCH TERM
	1	Lymphoma, Mantle-Cell in Trials

ANE LIBRAR Y	2	(mantle cell lymphoma):ti,ab,kw OR (MCL):ti,ab,kw OR (lymphoma, mantle cell):ti,ab,kw
	3	1 OR 2
	4	(neoplasm, residual):ti,ab,kw
	5	(Minimal Residual Disease*):ti,ab,kw OR (Residual Disease, Minimal):ti,ab,kw OR (Residual Minimal Disease*):ti,ab,kw OR (Residual Tumor*):ti,ab,kw OR (Residual Cancer*):ti,ab,kw OR (Tumor, Residual):ti,ab,kw OR (Cancer, Residual):ti,ab,kw
	6	#3 AND #5

Table S2. Quality assessment of included studies using Newcastle-Ottawa quality assessment scale.

Study	Selection				Comparability	Outcome			Total
	Representativeness of exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure to implants	Demonstration that outcome of interest was not present at start of study		Assessment of outcome	Follow-up long enough for outcomes to occur	Adequacy of follow up of cohorts	
Howard 2002	1	1	1	1	0	1	1	1	7
Pott 2006	1	1	1	1	2	1	1	1	9
Pott 2010	1	1	1	1	0	1	1	1	7
Gimenez 2012	1	1	1	1	0	1	1	1	7
Liu 2012	1	1	1	1	0	1	1	1	7
Hermine 2016	1	1	1	1	2	1	1	1	9
Kolstad 2017	1	1	1	1	0	1	1	1	7
Klener 2018	1	1	1	1	0	1	1	1	7
Gressin 2019	1	1	1	1	0	1	1	1	7
Kaplan 2020	1	1	1	1	0	1	1	1	7

Table S3. Publication bias test.

Study group	P value (Begg's test)	P value (Egger's test)
Progression free survival		
Studies of post-induction MRD	0.9195	0.7388
Studies of post-consolidation MRD	0.7500	0.2111
Overall survival		
Studies of post-induction MRD	0.7194	0.9701
Studies of post-consolidation MRD	Not applicable*	Not applicable*

*Due to the limited number of included studies reported post-consolidation MRD status on overall survival (n=2), Begg's and Egger's test was not applicable.

Figure S1. Funnel plot of progression-free survival for studies reported post-induction MRD status. (A) Before adjustment; (B) After adjustment.

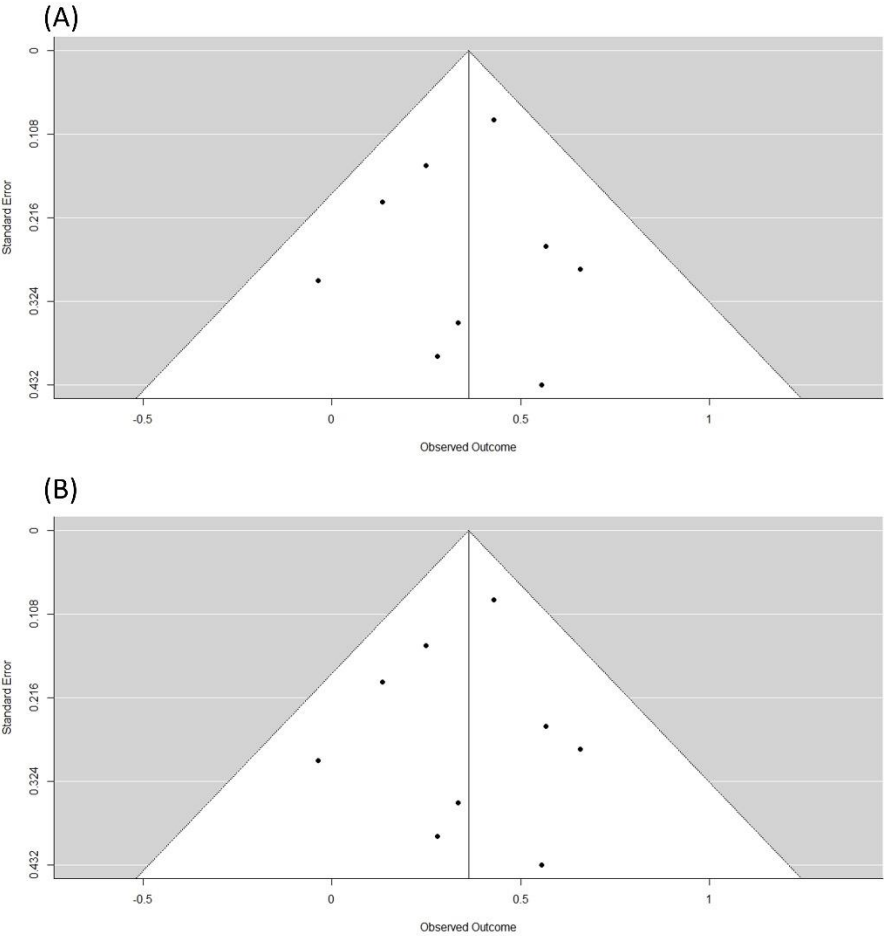


Figure S2. Funnel plot of overall survival for studies reported post-induction MRD status. (A) Before adjustment; (B) After adjustment.

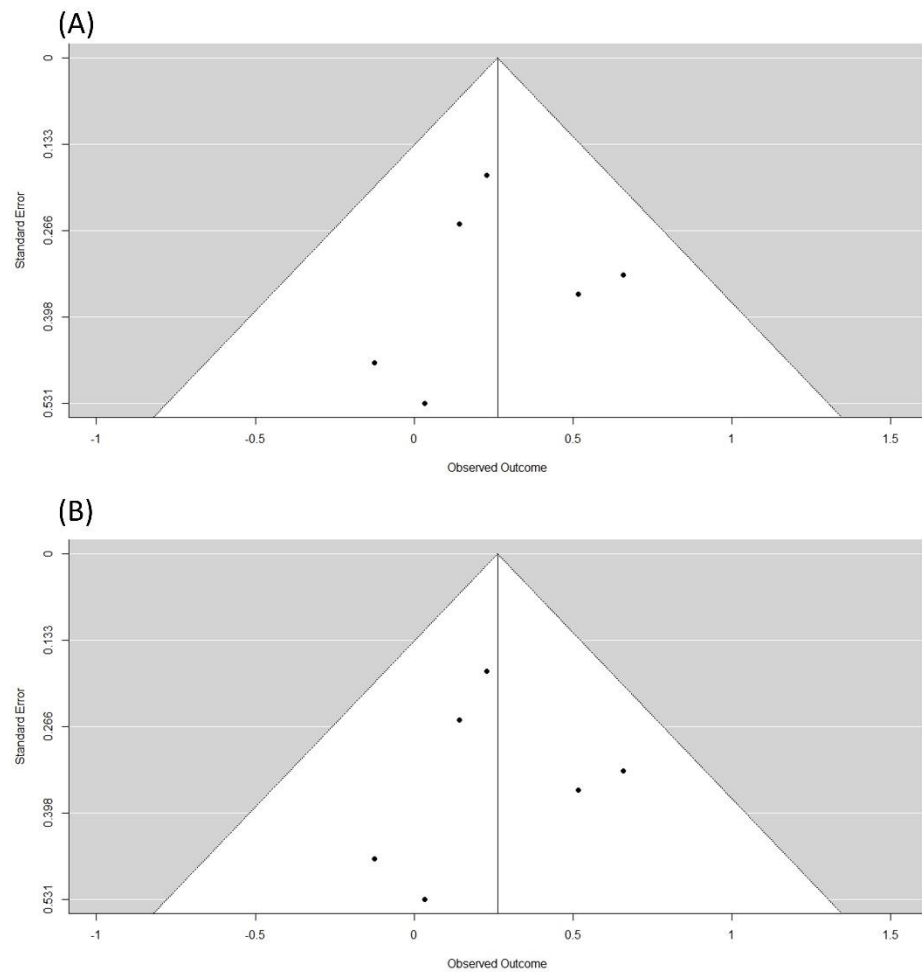


Figure S3. Funnel plot of progression free survival for studies reported post-consolidation MRD status. (A) Before adjustment; (B) After adjustment.

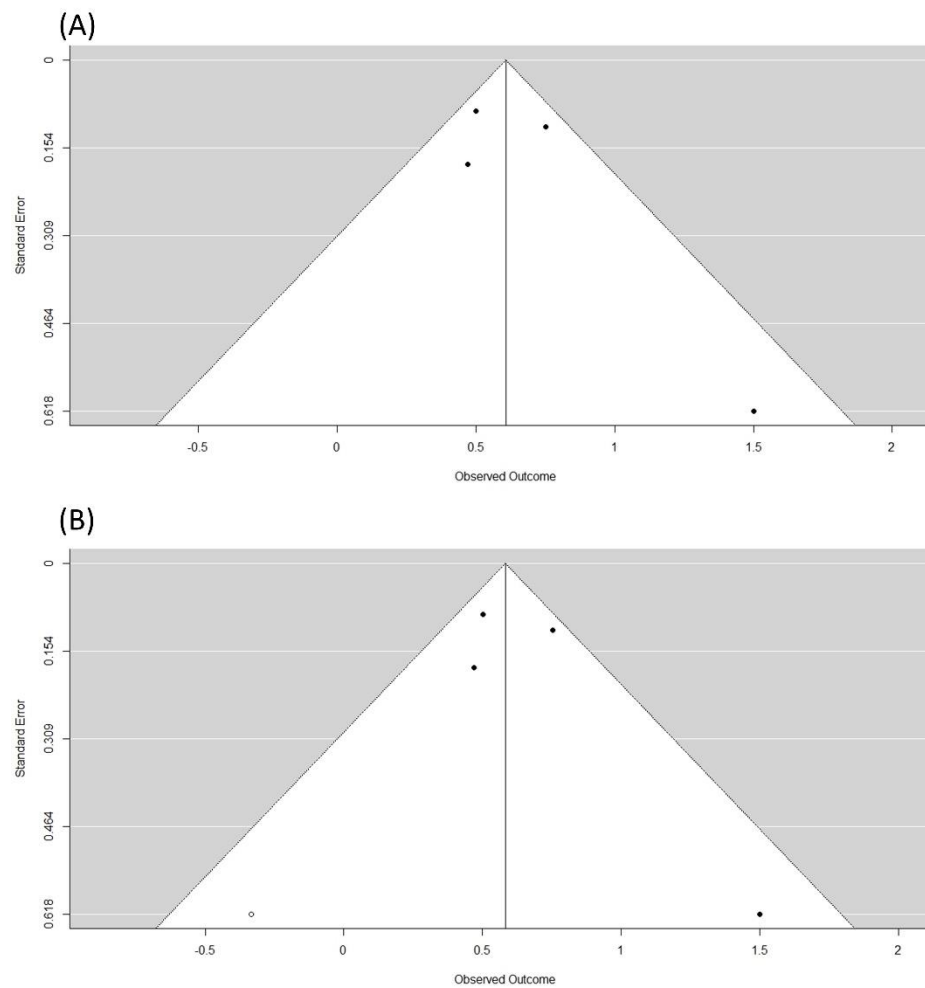


Figure S4. Funnel plot of overall survival for studies reported post-consolidation MRD status.

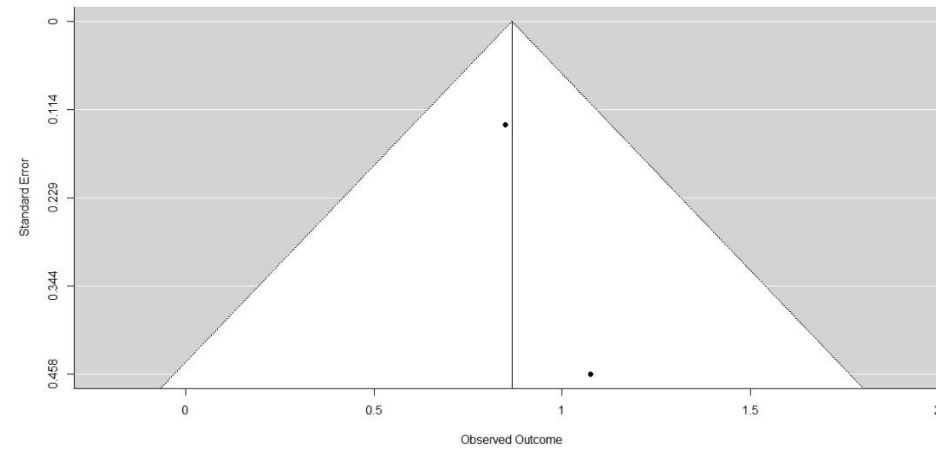


Figure S5. Sensitivity analysis of progression free survival for studies reported post-induction MRD status.

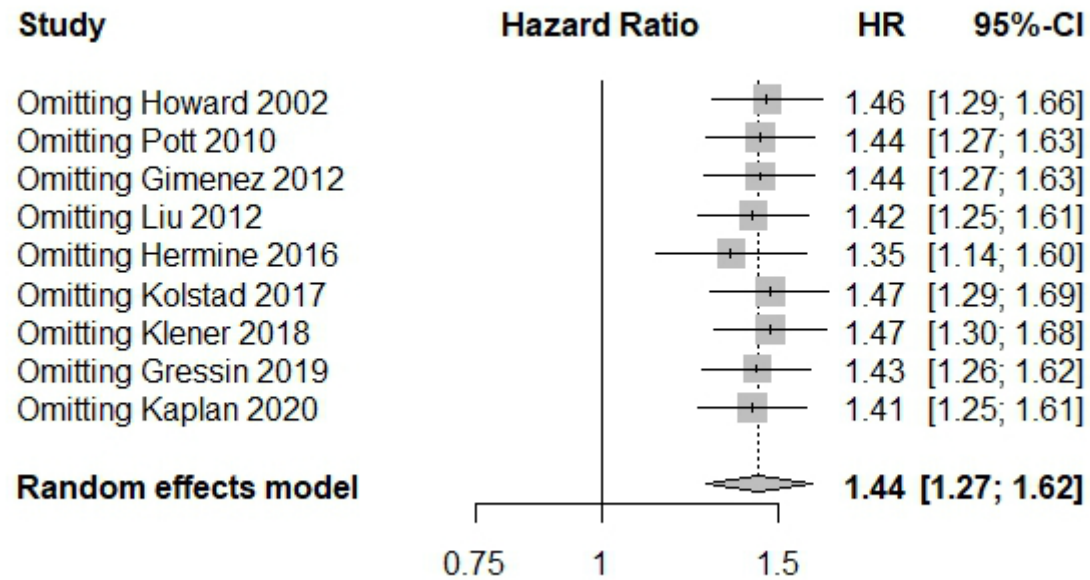


Figure S6. Sensitivity analysis of overall survival for studies reported post-induction MRD status.

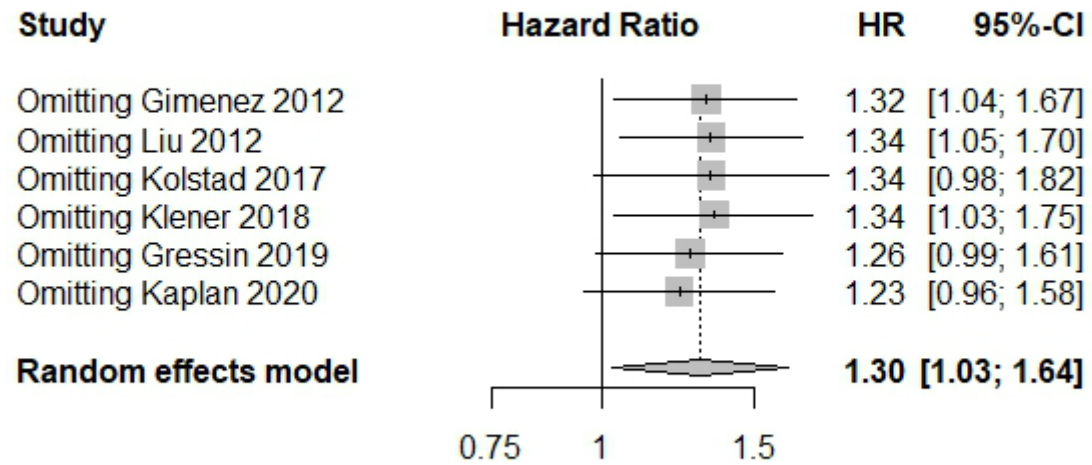


Figure S7. Sensitivity analysis of progression free survival for studies reported post-consolidation MRD status.

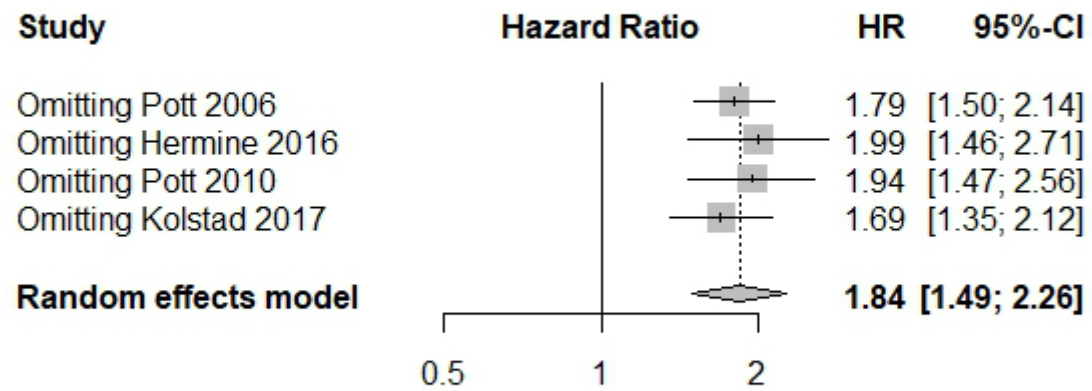


Figure S8. Sensitivity analysis of overall survival for studies reported post-consolidation MRD status.

