

Supplementary Materials 3: Full quality assessment for prioritised studies.

Table 1. Full quality assessment for prioritised studies in effectiveness tranche

Study (First Author, Date)	Are the participants selected to participate in the study likely to be representative of the target population? 1=Very Likely, 2=Somewhat likely, 3=Not likely, 4=CT																	
	What percentage of selected participants agree to participate? (1=0% - 100% agreement, 2=60 - 79% agreement, 3=< 60% agreement, 4=NA, 5=CT)																	
	Section rating (1 Strong, 2 Moderate, 3 Weak)									Section rating (1 Strong, 2 Moderate, 3 Weak)								
	1	Y	Y	Y	Y	1	2	NA	1	1	2	2	1	1	1	2	1	1
Rief 2017; ⁶ Auer 2017 ⁷	2	3	3	1	Y	Y	Y	NA	1	2	1	2	1	1	1	2	1	1
Sadlonova 2022 ⁸	2	2	2	1	Y	Y	Y	1	1	4	3	1	1	1	1	2	1	1
van der Peijl 2004 ⁹	2	1	2	1	Y	Y	Y	1	1	0%	3	2	3	2	3	3	3	3
Colorectal surgery																		
Bousquet- Dion 2018 ¹⁰	2	1	2	1	Y	Y	Y	1	2	NA	1	1	2	2	1	1	1	1
Carli 2010 ¹¹	2	1	2	1	Y	N	N	3	3	NA	3	3	2	3	3	3	1	1
Carli 2020 ¹²	2	1	2	1	Y	Y	Y	1	1	0%	3	2	1	2	1	1	1	1
Dronkers 2010 ¹³	2	5	2	1	Y	Y	Y	1	1	0%	3	2	3	2	3	3	1	1
Forsmo 2016 ¹⁴	2	1	2	1	Y	Y	Y	1	2	NA	1	1	1	3	3	1	1	1

Study (First Author, Date)	Assessing risk of bias															
	Selection		Randomization		Allocation concealment		Blinding of participants and personnel		Blinding of outcome assessment		Incomplete outcome data		Selective reporting		Other偏倚	
	Are the interventions selected to participate in the study likely to be representative of the target population? 1=Very Likely, 2=Somewhat likely, 3=Not likely, 4=CT															
	Was the percentage of agreement to participate? (1=0% - 100%)															
Frontera 2014¹⁵	2	1	2	1	Y	Y	Y	1	2	NA	1	1	1	1	1	1
Gillis 2014¹⁶	2	1	2	1	Y	y	Y	1	3	0%	3	2	3	2	3	2
Khoo 2007¹⁷	2	3	3	1	Y	Y	Y	1	3	4	3	3	3	2	3	2
Lee 2011¹⁸	2	1	2	1	Y	Y	Y	1	2	NA	1	3	3	2	3	2
Pappalardo 2016¹⁹	2	1	2	1	Y	N	NA	3	2	NA	1	2	3	2	3	2
Vlug 2011²⁰	4	5	3	1	Y	N	NA	1	2	NA	1	2	3	2	3	1
Section rating (1 Strong, 2 Moderate, 3 Weak)																
	Study design (1=RCT, 2=CCT, 3=CA, 4=CC, 5=C, 6=ITS, 7=Other, 8=CT)															
	Was the study described as randomized? (Y/N)															
	Was the method of randomization described? (Y/N/NA)															
	Was method of randomization appropriate? (Y/N/NA)															
	Section rating (1= Strong, 2= Moderate, 3= Weak)															
	Were there important differences between Groups prior to the intervention (1=Yes, 2=No, 3= CT)															
	Indicate the % of confounders that were controlled															
	Section rating (1= Strong, 2= Moderate, 3= Weak)															
	Was (were) the outcome assessor(s) aware of the intervention or exposure status of participants? (1=Yes, 2=N, 3= CT)															
	Were the study participants aware of the research question? (1=Yes, 2=No, 3= CT)															
	Section rating (1= Strong, 2= Moderate, 3= Weak)															
	Were data collection tools shown to be valid? (Answer this for the means of determining LOS)(1=Yes, 2=No, 3= CT)															
	Were means of determining LOS reliable? (1=Yes, 2=No, 3= CT)															
	Section rating (1= Strong, 2= Moderate, 3= Weak)															
	Were withdrawals and drop-outs reported in terms of numbers and/or reasons per group? (1=Yes, 2=No, 3= CT 4=NA)															
	differs by Gs, record the lowest) (1=80 -100%, 2=60 - 79%, 3=< 60%, 4=CT, 5=NA)															
	Section rating (1= Strong, 2= Moderate, 3= Weak)															
	What percentage of participants received the allocated intervention or exposure of interest? (1=80 -100%, 2=60 - 79%, 3=< 60%, 4=CT)															
	Was the consistency of the intervention measured? (1=Yes, 2=No, 3= CT)															
	Is it likely that subjects received an unintended intervention (contamination or co-intervention) (1=Yes, 2=No, 3= CT)															
	Indicate the unit of allocation (e.g. Community, Organisation/ institution, Individual)															
	Are the statistical methods appropriate for the study design? (1=Yes, 2=No, 3= CT)															
	Is the analysis performed by intervention allocation status (i.e. intention to treat) rather than the actual intervention received?(1=Yes, 2=No, 3= CT)															
	Is it clear how LOS is defined/calculated? (Y/N)															

Lower limb arthroplasty

Beaupre 2004,²¹	2	1	2	1	Y	Y	Y	1	2	NA	1	2	1	1	1	1
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Study (First Author, Date)	Are the participants selected to participate in the study likely to be representative of the target population? 1=Very Likely, 2=Slightly likely, 3=Not likely, 4=CT										
	What percentage of selected participants agree to participate? 1=< 60% agreement, 2=60 - 79% agreement, 3=> 60% agreement, 4=NA, 5=CT										
Borgwardt 2009 ²²	2	5	2	1	Y	Y	1	Section rating (1 Strong, 2 Moderate, 3 Weak)	Study design (1=RCT, 2=CCT, 3=CA, 4=CC, 5=C, 6=ITS, 7=Other 8=CT)	Was the study described as randomized? (Y/N)	
Cavill 2016 ²³	2	3	3	1	Y	Y	1	Section rating (1 Strong, 2 Moderate, 3 Weak)	Was the method of randomization described? (Y/N/NA)	Was method of randomization appropriate? (Y/N/NA)	
den Hertog 2012 ²⁴	2	5	2	1	Y	Y	1	Section rating (1 Strong, 2 Moderate, 3 Weak)	Were there important differences between Groups prior to the intervention (1=Yes, 2=No, 3= CT)	Indicate the % of confounders that were controlled	
Fransen 2018 ²⁵	2	1	2	1	Y	Y	1	Section rating (1 Strong, 2 Moderate, 3 Weak)	Was (were) the outcome assessor(s) aware of the intervention or exposure status of participants? (1=Yes, 2=N, 3= CT)	Were the study participants aware of the research question? (1=Yes, 2=No, 3= CT)	
Garriga 2019 ²⁶	2	4	2	6	N	NA	NA	2	1	Section rating (1 Strong, 2 Moderate, 3 Weak)	
Garriga 2019 ²⁷	2	4	2	6	N	NA	NA	2	3	1	Section rating (1 Strong, 2 Moderate, 3 Weak)
Higgins 2020 ²⁸	2	1	2	5	N	NA	NA	3	3	1	Section rating (1 Strong, 2 Moderate, 3 Weak)

Study (First Author, Date)	Were the interventions selected to participate in the study likely to be representative of the target population? 1=Very Likely, 2=Somewhat likely, 3=Not likely, 4=CT																	
	Was (were) the outcome assessor(s) aware of the intervention or exposure status of participants? (1=Yes, 2=N, 3= CT)																	
Were the study participants aware of the research question? (1=Yes, 2=No, 3= CT)																		
Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	Section rating (1 Strong, 2 Moderate, 3 Weak)	
McDonnell 2019 ³⁷	2	1	2	7	Y	Y	Y	1	NA	NA								
McGregor 2004 ³⁸	2	5	2	1	Y	N	NA	3	3	NA	3	3	3	3	3	3	3	3
Pour 2007 ³⁹	2	2	2	1	Y	Y	Y	1	3	NA	3	3	3	3	3	3	3	3
Reilly 2005 ⁴⁰	2	5	2	1	Y	Y	Y	1	2	NA	1	1	3	2	3	3	3	3
Siggeirsottir 2005 ⁴¹	2	2	2	1	Y	Y	Y	1	3	NA	3	3	3	2	3	3	3	3
Vesterby 2017 ⁴²	2	2	2	1	Y	Y	Y	1	3	NA	3	1	3	2	1	1	1	1
Williamson 2007 ⁴³	2	2	2	1	Y	Y	Y	1	2	NA	1	2	3	2	1	3	1	1

Study (First Author, Date)	Assessing risk of bias																Assessing risk of bias in randomised trials													
	Risk of bias								Risk of bias in randomised trials								Allocation					Blinding								
	Selection	Performance	Detection	Attrition	Reporting	Other	Overall	Allocation	Blinding of participants	Blinding of personnel	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other	Allocation	Blinding of participants	Blinding of personnel	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other									
Frees 2018 ⁴⁴	2	1	2	1	Y	Y	N	NA	1	2	NA	1	2	NA	1	2	NA	1	2	NA	1	2	NA	1	2	NA	1	2		
Ferreira 2021 ⁴⁵	2	2	2	1	Y	Y	Y	Y	1	2	NA	1	2	NA	1	2	NA	1	2	NA	1	2	NA	1	2	NA	1	2		
Tumour removal surgery (various locations)																														
Hempenius 2013; ⁴⁶ Hempenius 2016 ⁴⁷	2	2	2	1	Y	Y	Y	Y	1	2	NA	1	1	3	2	3	3	3	3	1	1	1	1	2	I	G	1	2	N	
Schmidt 2015 ⁴⁸	2	2	2	1	Y	Y	Y	Y	1	2	NA	1	3	3	3	3	1	1	1	1	2	2	1	2	I	G	1	2	Y	
Upper abdominal surgery																														
Dunne 2016 ⁴⁹	2	3	3	1	Y	Y	Y	Y	1	2	NA	1	3	3	2	3	3	3	3	1	1	1	1	2	2	I	G	1	2	N

Are the interventions selected to participate in the study likely to be representative of the target population? 1=Very Likely, 2=Somewhat likely, 3=Not likely, 4=CT

■■■■■ represents 100% agreement, 2=60 - 79% agreement, 3=< 60% agreement, 4=NA, 5=CT

Section rating (1 Strong, 2 Moderate, 3 Weak)

Study design (1=RCT, 2=CCT, 3=CA, 4=CC, 5=C, 6=ITS, 7=Other, 8=CT)

Was the study described as randomized? (Y/N)

Was the method of randomization described? (Y/N/NA)

Was method of randomization appropriate? (Y/N/NA)

Section rating (1= Strong, 2=Moderate, 3= Weak)

Were there important differences between Groups prior to the intervention (1=Yes, 2=No, 3= CT)

Indicate the % of confounders that were controlled

Section rating (1= Strong, 2=Moderate, 3= Weak)

Was (were) the outcome assessor(s) aware of the intervention or exposure status of participants? (1=Yes, 2=N, 3= CT)

Were the study participants aware of the research question? (1=Yes, 2=No, 3= CT)

Section rating (1= Strong, 2=Moderate, 3= Weak)

Were data collection tools shown to be valid? (Answer this for the means of determining LOS)(1=Yes, 2=No, 3= CT)

Were means of determining LOS reliable? (1=Yes, 2=No, 3= CT)

Section rating (1= Strong, 2=Moderate, 3= Weak)

Were withdrawals and drop-outs reported in terms of numbers and/or reasons per group? (1=Yes, 2=No, 3= CT 4=NA)

differs by Gs, record the lowest) (1=80 -100%, 2=60 - 79%, 3=< 60%, 4=CT, 5=NA)

Section rating (1= Strong, 2=Moderate, 3= Weak)

What percentage of participants received the allocated intervention or exposure of interest? (1=80 -100%, 2=60 - 79%, 3=< 60%, 4=CT)

Was the consistency of the intervention measured? (1=Yes, 2=No, 3= CT)
Is it likely that subjects received an unintended intervention (contamination or co-intervention) (1=Yes, 2=No, 3= CT)

Indicate the unit of allocation (e.g. Community, Organisation/ institution, Individual)

Are the statistical methods appropriate for the study design? (1=Yes, 2=No, 3= CT)

Is the analysis performed by intervention allocation status (i.e. intention to treat) rather than the actual intervention received?(1=Yes, 2=No, 3= CT)

Is it clear how LOS is defined/calculated? (Y/N)

Study (First Author, Date)	Assessing risk of bias											
	Selection			Performance			Bias			Other		
	1	2	3	1	2	3	1	2	3	1	2	3
Jones 2013 ⁵⁰	2	1	2	1	y	Y	Y	1	1	0	1	1
Kapritsou 2017 ⁵¹	2	1	2	1	Y	Y	Y	1	2	NA	1	1
Study design (1=RCT, 2=CCT, 3=CA, 4=CC, 5=C, 6=ITS, 7=Other, 8=CT)												
Was the study described as randomized? (Y/N)												
Was the method of randomization described? (Y/N/NA)												
Was method of randomization appropriate? (Y/N/NA)												
Section rating (1= Strong, 2=Moderate, 3= Weak)												
Were there important differences between Groups prior to the intervention (1=Yes, 2=No, 3= CT)												
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Was (were) the outcome assessor(s) aware of the intervention or exposure status of participants? (1=Yes, 2=N, 3= CT)												
Were the study participants aware of the research question? (1=Yes, 2=No, 3= CT)												
Section rating (1= Strong, 2=Moderate, 3= Weak)												
Were data collection tools shown to be valid? (Answer this for the means of determining LOS)(1=Yes, 2=No, 3= CT)												
Were means of determining LOS reliable? (1=Yes, 2=No, 3= CT)												
Section rating (1= Strong, 2=Moderate, 3= Weak)												
Were withdrawals and drop-outs reported in terms of numbers and/or reasons per group? (1=Yes, 2=No, 3= CT 4=NA)												
differs by Gs, record the lowest) (1=80 -100%, 2=60 - 79%, 3=< 60%, 4=CT, 5=NA)												
Section rating (1= Strong, 2=Moderate, 3= Weak)												
What percentage of participants received the allocated intervention or exposure of interest? (1=80 -100%, 2=60 - 79%, 3=< 60%, 4=CT)												
Was the consistency of the intervention measured? (1=Yes, 2=No, 3= CT)												
Is it likely that subjects received an unintended intervention (contamination or co-intervention) (1=Yes, 2=No, 3= CT)												
Indicate the unit of allocation (e.g. Community, Organisation/ institution, Individual)												
Are the statistical methods appropriate for the study design? (1=Yes, 2=No, 3= CT)												
Indicate the unit of analysis (e.g. Community, Organisation/ institution, Individual)												
Is the analysis performed by intervention allocation status (i.e. intention to treat) rather than the actual intervention received?(1=Yes, 2=No, 3= CT)												
Is it clear how LOS is defined/calculated? (Y/N)												

C=Cohort; CA=C Analytic; CT=Can't Tell; CCT=Clinical Control Trial; G=Group; I=Individual; N=No; NA=Not Applicable; O=Organisation; RCT=Randomised Controlled Trial; W=ward; Y=Yes

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