

Appendix 1*Search strategy***Embase**

#1 ('randomized controlled' NEXT/1 trial*) OR rct OR 'randomly allocated' OR 'allocated randomly' OR 'random allocation' OR (allocated NEAR/2 random) OR 'prospective study'/de OR 'double blind procedure'/de OR 'clinical trial'/de OR 'randomized controlled trial'/de OR 'randomization'/de

#2 'hepatectomy':ab,ti

#3 'hepatectomies':ab,ti

#4 'liver resection':ab,ti

#5 'liver surgery':ab,ti

#6 'liver operation':ab,ti

#7 'hepatic surgery':ab,ti

#8 'hepatic resection':ab,ti

#9 'hepatic operation':ab,ti

#10 'portal clamping':ab,ti

#11 'Pringle maneuver':ab,ti

#12 'pedicle clamping':ab,ti

#13 #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10 OR #11 OR #12

#14 'ischemic preconditioning':ab,ti

#15 'pre-conditioning, ischemic':ab,ti

#16 'ischemic pre conditioning':ab,ti

#17 'ischemic pre-conditioning':ab,ti

#18 'preconditioning, ischemic':ab,ti

#19 'remote ischemic preconditioning':ab,ti

#20 'remote ischemic pre conditioning':ab,ti

#21 'remote ischemic pre-conditioning':ab,ti

#22 #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20 OR #21

#23 #1 AND #13 AND #22

PubMed

#1 randomized controlled trial [pt]

#2 controlled clinical trial [pt]

#3 randomized [tiab]

#4 randomly [tiab]

#5 trial [tiab]

#6 #1 OR #2 OR #3 OR #4 OR #5 OR #6

#7 animals [mh] NOT humans [mh]

#8 #6 NOT #7

#9 hepatectomy[mh]

#10 liver resection[tiab]

#11 liver surgery[tiab]

#12 liver operation[tiab]

#13 hepatic resection[tiab]

#14 hepatic operation [tiab]

#15 hepatic surgery[tiab]

#16 portal clamping [tiab]

#17 pringle maneuver [tiab]

#18 pedicle clamping[tiab]
#19 #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18
#20 ischemic preconditioning[mh]
#21 remote ischemic preconditioning [tiab]
#22 remote ischemic pre-conditioning[tiab]
#23 remote ischemic pre conditioning[tiab]
#24 #20 OR #21 OR #22 OR #23
#8 AND #19 AND #24

Cochrane

#1 (hepatectomy):ti,ab,kw
#2 (liver resection) :ti,ab,kw
#3(liver surgery) :ti,ab,kw
#4(liver operation) :ti,ab,kw
#5(hepatic resection):ti,ab,kw
#6(hepatic operation) :ti,ab,kw
#7(hepatic surgery) :ti,ab,kw
#8(portal clamping):ti,ab,kw
#9(pringle maneuver):ti,ab,kw
#10(pedicle clamping):ti,ab,kw
#11 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8 OR #9 OR #10
#12(ischemic preconditioning):ti,ab,kw
#13(remote ischemic preconditioning):ti,ab,kw
#14(remote ischemic pre-conditioning):ti,ab,kw
#15(remote ischemic pre conditioning):ti,ab,kw
#16 #12 OR #13 OR #14 OR #15
#17 #11 AND #16

Appendix 2

Testing for inconsistency in AST on POD1

Side	Direct		Indirect		Difference			Tau
	Coef.	Std. err.	Coef.	Std. err.	Coef.	Std. err.	P> z	
AB [†]	-203.3363	78.60285	-374.5607	462.9102	171.2244	469.5621	0.715	308.8483
AC [†]	-122.4227	104.6508	185.5192	430.5762	-307.942	443.1355	0.487	307.5374
BC [†]	226.319	229.1751	54.6338	143.4103	171.6852	270.4668	0.526	307.7871

[†], no statistical difference. A, local ischemic preconditioning; B, remote ischemic preconditioning; C, no-preconditioning. AST, aspartate aminotransferase; POD1, postoperative day 1; coef., coefficient; std., standard; err., error.

Testing for inconsistency in ALT on POD1

Side	Direct		Indirect		Difference			Tau
	Coef.	Std. err.	Coef.	Std. err.	Coef.	Std. err.	P> z	
AB [†]	-211.2279	49.93275	-192.1612	284.1783	-19.06676	288.5791	0.947	186.225
AC [†]	-85.73231	65.21929	284.6784	252.4141	-370.4108	260.6811	0.155	178.9054
BC [†]	241.4087	136.0542	105.4986	92.86104	135.9101	164.9099	0.410	184.2372

[†], no statistical difference. A, local ischemic preconditioning; B, remote ischemic preconditioning; C, no-preconditioning. ALT, alanine aminotransferase; POD1, postoperative day 1; coef., coefficient; std., standard; err., error.

Testing for inconsistency in TBIL on POD1

Side	Direct		Indirect		Difference			Tau
	Coef.	Std. err.	Coef.	Std. err.	Coef.	Std. err.	P> z	
AB [†]	-1.855024	1.32136	-5.267894	4.712489	3.41287	4.899134	0.486	2.891924
AC [†]	-1.837898	1.763721	1.574979	4.5654	-3.412877	4.899138	0.486	2.891928
BC [†]	3.43	4.370001	0.0171233	2.21465	3.412877	4.899141	0.486	2.89193

[†], no statistical difference. A, local ischemic preconditioning; B, remote ischemic preconditioning; C, no-preconditioning. TBIL, total bilirubin; POD1, postoperative day 1; coef., coefficient; std., standard; err., error.

Testing for inconsistency in operative time

Side	Direct		Indirect		Difference			Tau
	Coef.	Std. err.	Coef.	Std. err.	Coef.	Std. err.	P> z	
AB [†]	-2.736956	3.961458	4.251029	23.15934	-6.987985	23.48583	0.766	9.068104
AC [†]	2.298342	4.763723	-0.725592	22.21443	2.370901	22.688	0.917	9.123404
BC [†]	2.298523	11.93202	5.501991	6.638106	-3.203467	13.64996	0.814	9.10892

[†], no statistical difference. A, local ischemic preconditioning; B, remote ischemic preconditioning; C, no-preconditioning. Coef., coefficient; std., standard; err., error.

Testing for inconsistency in hospital stays

Side	Direct		Indirect		Difference			Tau
	Coef.	Std. err.	Coef.	Std. err.	Coef.	Std. err.	P> z	
AB [†]	-1.546786	8.175444	2.80285	4.457999	-4.349635	4.537369	0.338	2.058672
AC [†]	-1.418028	1.066095	-1.207996	4.381216	1.066194	4.512721	0.813	2.168374
BC [†]	-0.945779	2.261839	1.766025	1.48499	-1.860603	2.705558	0.492	2.123976

[†], no statistical difference. A, local ischemic preconditioning; B, remote ischemic preconditioning; C, no-preconditioning. Coef., coefficient; std., standard; err., error.

Testing for inconsistency in blood loss

Side	Direct		Indirect		Difference			Tau
	Coef.	Std. err.	Coef.	Std. err.	Coef.	Std. err.	P> z	
AB [†]	-38.90878	16.07758	60.63274	111.8554	-99.54152	112.6244	0.377	35.21156
AC [†]	-4.358502	30.04253	-98.36853	82.60391	94.01003	87.73031	0.284	35.47823
BC [†]	-15.82048	41.41671	56.5381	40.25386	-72.35858	57.86942	0.211	33.38502

[†], no statistical difference. A, local ischemic preconditioning; B, remote ischemic preconditioning; C, no-preconditioning. Coef., coefficient; std., standard; err., error.