

Supplementary Appendix 1: Search Strategy.

Name of Search	Stem cell therapy in non-ischemic cardiomyopathy
Databases Search	Ovid MEDLINE, Embase, Cochrane Central Register of Controlled Trials
Inclusion Criteria	
Exclusion Criteria	Hypertrophic cardiomyopathy, arrhythmogenic right ventricular dysplasia
Concept 1	Non-ischemic cardiomyopathy, dilated cardiomyopathy, idiopathic cardiomyopathy
Concept 2	Stem cell therapy

Database	Ovid MEDLINE	
Platform	Ovid	
Limits	Humans (search hedge)	
Number of Results	413	
Notes	Included 'congestive' as keyword because listed as entry term for MeSH 'cardiomyopathy, dilated'; yielded 15 additional results	
1	cardiomyopathy, dilated/	15474
2	((congest\$ or dilat\$ or idiopath\$ or non ischem\$ or nonischem\$ or non ischaem\$ or nonischaem\$) adj3 (cardiomyopath\$ or myocardiopath\$ or heart disease\$)).tw.	22443
3	or/1-2	27075
4	exp stem cell transplantation/	79778
5	exp stem cells/	208913
6	((cord or bone marrow or embryo\$ or fetal or foetal or hematopoe\$ or haematopoe\$ or mesenchymal or pluripoten\$ or precursor or progenitor or umbilical) adj3 cell\$).tw.	318150
7	(stem cell\$ adj3 (administ\$ or inject\$ or therap\$ or transplant\$ or treat\$)).tw.	67244
8	or/4-7	473452
9	and/3,8	506
10	animals/ not humans/	4641136
11	9 not 10	413

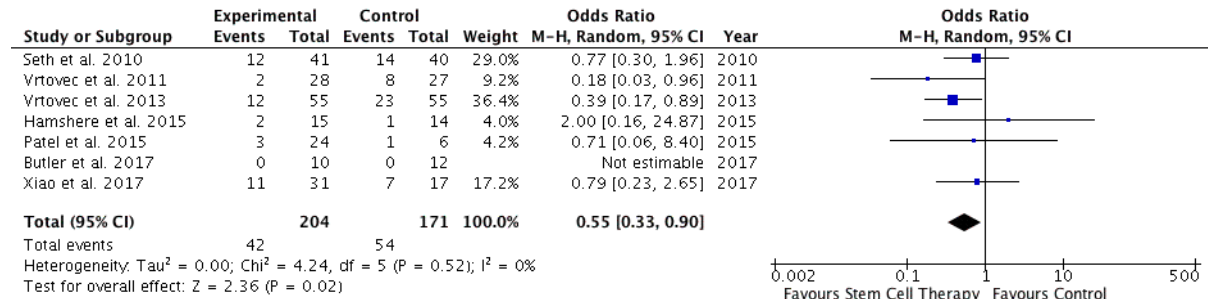
Database	Embase	
Platform	Elsevier	
Years Searched	1947 - Present	
Limits	Humans (search hedge)	
Number of Results	845	
Notes	Tested Emtree term 'stem cells/exp'; yielded 137 additional results, not relevant	
1	'nonischemic cardiomyopathy'/de	4256
2	'congestive cardiomyopathy'/exp	30993
3	((congest* OR dilat* OR idiopath* OR 'non ischem*' OR nonischem* OR 'non ischaem*' OR nonischaem*) NEAR/3 (cardiomyopath* OR myocardiopath* OR 'heart disease*')):ti,ab	36460
4	#1 OR #2 OR #3	48043
5	'stem cell transplantation'/exp	146747
6	((cord OR 'bone marrow' OR embryo* OR fetal OR foetal OR hematopoe* OR haematopoe* OR mesenchymal OR pluripoten* OR precursor OR progenitor OR umbilical) NEAR/3 cell*):ti,ab	431056

7	('stem cell*' NEAR/3 (administ* OR inject* OR therap* OR transplant* OR treat*)):ti,ab	118479
8	#5 OR #6 OR #7	565857
9	#4 AND #8	1015
10	[animals]/lim NOT [humans]/lim	5993590
11	#9 NOT #10	845

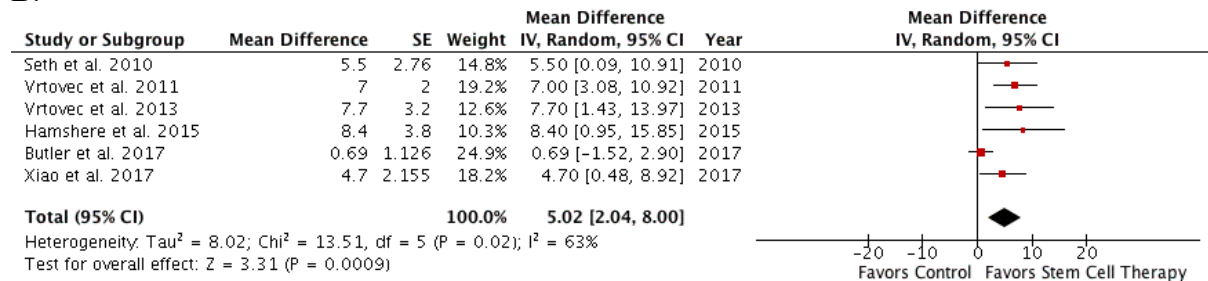
Database	Cochrane Central Register of Controlled Trials	
Platform	Wiley	
Limits	None	
Number of Results	179	
Notes		
#1	[mh "cardiomyopathy, dilated"] in Trials	536
#2	((congest* OR dilat* OR idiopath* OR "non ischem*" OR nonischem* OR "non ischaem*" OR nonischaem*) NEAR/3 (cardiomyopath* OR myocardiopath* OR 'heart disease*')):ti,ab,kw in Trials	9175
#3	#1 OR #2 in Trials	9175
#4	[mh "stem cell transplantation"] in Trials	1904
#5	[mh "stem cells"] in Trials	798
#6	((cord OR "bone marrow" OR embryo* OR fetal OR foetal OR hematopoe* OR haematopoe* OR mesenchymal OR pluripoten* OR precursor OR progenitor OR umbilical) NEAR/3 cell*):ti,ab,kw in Trials	8223
#7	("stem cell*" NEAR/3 (administ* OR inject* OR therap* OR transplant* OR treat*)):ti,ab,kw in Trials	8945
#8	#4 OR #5 OR #6 OR #7 in Trials	15266
#9	#3 AND #8 in Trials	179

Supplementary Figure 1: Sensitivity analysis Forest plot after excluding four trials with high or unknown risk of detection and attrition bias (A) effect of stem cell therapy on left ventricular ejection fraction (B) effect of stem cell therapy on major adverse cardiac events (MACE)

A.



B.



Supplementary Figure 2: Forest plots of the effect of stem cell therapy on left ventricular end diastolic volume or diameter after excluding the trial with maximum weightage.

