

Supplementary File 1

Search strategy used in PubMed database

<i>Search Topic</i>	#	Search Terms
<i>Population:</i> <i>Rheumatoid Arthritis</i>	#1	"(Rheumatoid Arthritis"[Mesh]) OR (Rheumatoid [All Fields]) OR (RA[All Fields]) OR (Rheumato*[All Fields])
	#2	("joints"[MeSH Terms] OR "joints"[All Fields] OR "arthritis"[All Fields]) AND ("rheumatoid"[All fields]
	#3	(inflammatory[All Fields]) AND (arthritis[All Fields])
	#4	#1 OR #2 OR #3
<i>Intervention:</i> <i>Hematopoietic Stem Cell Transplantation</i>	#5	"Hematopoietic Stem Cell Transplantation"OR "HSCT"
	#6	"Hematopoietic Stem Cell"[Mesh] OR "Transplantation"[Mesh]
	#7	("Autologous"[All Fields] OR "Allogenic"[All Fields])) AND ("stem cell"[All Fields]))
	#8	#5 OR #6 OR #7
	#9	#4 AND #8
<i>Study design:</i> <i>RCTs, cohort studies, case series</i>	#10	("clinical trial"[All Fields] OR "clinical trials as topic"[MeSH Terms] OR "clinical trials"[All Fields]OR "case series"[All Fields] OR ""randomized controlled trial"[All Fields] OR "randomized controlled trials as topic"[MeSH Terms] OR "randomized controlled trial"[pt] OR "controlled clinical trial"[pt] OR "randomized"[tiab] OR "randomly"[tiab] OR "trial"[ti] OR "randomised controlled trial"[All Fields] OR "randomized controlled trial"[pt] "prospective studies"[MeSH Terms] OR "prospective studies"[All Fields] OR "retrospective studies"[MeSH Terms] OR "retrospective studies"[All Fields] OR "retrospective study"[All Fields]

	#11 #9 AND #10
#12	<p>(“biography”[Publication Type] OR “comment”[Publication Type] OR “directory”[Publication Type] OR “editorial”[Publication Type] OR “festschrift”[Publication Type] OR “interview”[Publication Type] OR “lecture”[Publication Type] OR “legal case”[Publication Type] OR “legislation”[Publication Type] OR “letter”[Publication Type] OR “news”[Publication Type] OR “newspaper article”[Publication Type] OR “patient education handout”[Publication Type] OR “popular work”[Publication Type] OR “congress”[Publication Type] OR “consensus development conference”[Publication Type] OR “consensus development conference, nih”[Publication Type] OR “practice guideline”[Publication Type]) OR “Review”[Publication Type])</p>
#13	#11 NOT #12

Supplementary File 2

Excluded studies:

1. Cooley HM, Snowden JA, Grigg AP, Wicks IP. Outcome of rheumatoid arthritis and psoriasis following autologous stem cell transplantation for hematologic malignancy. *Arthritis Rheum.* 1997;40(9):1712-1715.
doi:10.1002/art.1780400923

Reason: Co-existing malignancy

2. Moore J, Milliken S, David, Biggs J, Brooks P. Peripheral blood stem cell transplantation for rheumatoid arthritis--Australian experience. *J Rheumatol Suppl.* 2001;64:8-12.

Reason: RCT Protocol