

Supplementary Table S1. Detailed search strategy.

Knee	Cartilage variations	Cartilage to implant variations	Defect variations	MSC variations	Implant variations	Investigation variations	
1) Knee	2) Chondral	6) Cartilage-	11) Disease	16) Mesenchymal stem cell	22) Implant	27) Interface	33) 1 AND 5
	3) Cartilage	cartilage	12) Defect	17) MSC	23) Scaffold	28) Integration	AND 10
	4) Articular	7) Cartilage to	13) Damage	18) (BM or bone-marrow or	24) Graft	29) Histology	AND 15
	5) 2 OR 3 OR 4	cartilage	14) Lesion	bone marrow) derived	25) Inject	30) Arthroscopy	AND 21
		8) Cartilage-	15) 11 OR 12	19) Adipose-derived or	26) 22 OR 23 OR	31) MRI or	AND 26
		implant	OR 13 OR	adipose derived or ASC	24 OR 25	magnetic	AND 32
		9) Cartilage to	14	20) (Blood or peripheral blood		resonance	
		implant		or peripheral-blood or PB)		imaging	
		10) 6 OR 7 OR 8 OR		derived		32) 27 OR 28 OR	
		9		21) 16 OR 17 OR 18 OR 19 OR		29 OR 30 OR	
				20		31	