

Section / Topic	Item	Checklist item	Reported on Page No.
Study Design	1	Study conducted in accordance with CONSORT (RCT), STROBE (cohort, case-control or cross-sectional) or PRISMA (meta-analysis) guidelines	
	2	Relevant institutional and ethical approval	
Recipient details	3	Recipient demographics (including age, gender)	
	4	Comorbidities (including underlying diabetes, inflammatory conditions, pre-existing joint pathology and smoking status)	
	5	Current anti-inflammatory medications	
Injury details	6	Diagnosis (including relevant grading system and chronicity)	
	7	Previous treatments for current injury	
Intervention	8	Surgical intervention described sufficiently to enable replication	
	9	Operative findings	
Donors	10	Donor age	
Tissue harvest	11	Tissue harvest described sufficiently to enable replication (including anatomical source, equipment, reagents, storage media and environment)	
	12	Time between tissue harvest and processing	
Processing	13	Description of tissue processing that makes replication of the experiment possible (including digestion solution concentrations and volumes, duration, agitation and temperature of digestion phase, name of commercial system)	
	14	If performed, purification described sufficiently to enable replication (including combination and concentration antibodies, equipment, method of confirming purity)	
	15	Yield with respect to volume of tissue processed	
Cell Culture	16	If performed, cell culture described sufficiently to enable replication (including conditions, number of freeze-thaw cycles)	
	17	If performed, predifferentiation described sufficiently to enable replication	
MSC characteristics	18	MSC preparation and source described in title and abstract (e.g. BMMSC, ADSC)	
	19	Cellular composition / heterogeneity	
	20	Immunophenotype and details of in vitro differentiation tested on batch	
	21	Passage and percentage viability	
Delivery	22	MSC delivery described sufficiently to enable replication (including point of delivery, volume of suspension and media used as vehicle)	
	23	If performed, details of codelivered growth factors, scaffolds or carriers	
Post-operative care	24	Rehabilitation protocol sufficiently described to enable replication (including immobilisation and physical therapy)	
Outcome	25	Outcome assessments include functional outcomes and recording of complications (including infection and tumour). If performed radiographic outcomes, physical examination findings, return to activities and satisfaction	