Supplementary Information 4. Study characteristics of included studies: abbreviations and references

Abbreviations

Biomaterial
ACI: autologous chondrocyte implantation
BCP: bicalcium phosphate
CDBM: cancellous demineralized bone matrix
CS: chondroitin sulfate
DABM: demineralized allogeneic bone matrix
DCBM: decellularized cancellous bone matrix
DCBM: decellularized cortical bone matrix
DCCBM: decalcified cortical-cancellous bone matrix
DTBM: demineralized trabecular bone matrix
DABM: demineralized allogeneic bone matrix
GMP: gelatin microspheres
ICP: Injectable calcium phosphate
KLD hydrogel: self-assembling hydrogel from peptide sequences (RADA)₄ and (KLDL)₃
LLDPE: low-density polyethylene
MA: methacrylate
OPF: oligo(poly(ethylene glycol) fumarate)
PAMPS-PDMAAm DN hydrogel: poly-(2-Acrylamido-2-methylpropane sulfonic acid/poly-(N,N’-Dimethyl acrylamide double network hydrogel
PCL: polycaprolactone
PCLPU: polycaprolactone-polyurethane
PEG: poly(ethylene glycol)
PEOT/PBT: poly(ethylene oxide terephthalate)/poly(butylene terephthalate)
PHBV: (poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid)
pHEMA-[MMA-co-AA]: poly(2-hydroxethyl methacrylate)-poly(methacrylate of acrylic methyl co-acid
PGA: poly(glycolic acid)
PLA: poly(lactic acid)
PLCL: poly(L-lactide-co-caprolactone)
PLGA: poly(lactic-co-glycolic acid)
PDLA: poly(d-lactide)
PVA: poly(vinyl alcohol)
SPU: segmented polyurethane
TCP: tricalcium phosphate
TMC: N,N,N-trimethylchitosan chloride
UHMWPE: Ultra-high molecular weight polyethylene

Cells
ACI: autologous chondrocyte implantation
ASCs: adipose-derived stem cells
BM-MNCs: bone marrow-derived mononuclear cells
EPCs: endothelial progenitor cells
MPCs: bone marrow-derived progenitor cells
MSCs: mesenchymal stem cells
SDMSCs: synovium derived mesenchymal stem cells
BMAC: bone marrow aspiration concentrate

Biologicals
BMP: bone morphogenetic protein
bBMPs: bovine bone morphogenetic proteins
FGF: fibroblast growth factor
IGF: insulin-like growth factor
OP-1: osteogenic protein-1 (BMP-7)
PRP: platelet-rich plasma
SDF-1: stromal cell-derived factor-1
SVF: stromal vascular fraction
TGF-β: transforming growth factor-β

**Conditions**
IAM: intermittent active motion
CPM: continuous passive motion
Imm: immobilized

**References**


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