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### Appendix

#### Appendix 1: search strategy

#	PubMed	EMBASE (Ovid)	Cochrane library
1	"Osteochondritis Dissecans"[MeSH] OR osteochondritis dissecans[tiab] OR osteochondrosis dissecans[tiab] OR osteochondrolysis[tiab] OR OCD[tiab] OR OLT[tiab]	osteochondritis dissecans/	MeSH descriptor: [Osteochondritis Dissecans] explode all trees
2	(osteochondral[tiab] OR chondral[tiab] OR transchondral[tiab] OR cartilage*[tiab]) AND (defect*[tiab] OR lesion*[tiab])	(osteochondritis dissecans or osteochondrosis dissecans or osteochondrolysis or OCD or OLT).ti,ab,kw.	(osteochondritis dissecans or osteochondrosis dissecans or osteochondrolysis or OCD or OLT):ti,ab,kw
3	#1 OR #2	((osteochondral or chondral or transchondral or cartilage*) and (defect* or lesion*)).ti,ab,kw.	((osteochondral or chondral or transchondral or cartilage*) and (defect* or lesion*)):ti,ab,kw
4	"Tibia"[Mesh] OR "Ankle"[Mesh] OR distal tibia*[tiab] OR OLTP[tiab] OR ankle[tiab]	1 or 2 or 3	#1 or #2 or #3
5	#3 AND #4	exp distal tibia/ or exp ankle/ or (distal tibia* or OLTP or ankle).ti,ab,kw.	(distal tibia* or OLTP or ankle):ti,ab,kw
6	"Letter" [Publication Type] OR "Comment" [Publication Type] OR "Editorial" [Publication Type] OR "Congress" [Publication Type] OR letter[ti] OR comment[ti] OR editorial[ti]	4 and 5	#4 and #5
7	#5 NOT #6	letter/ or editorial/ or (letter or comment or editorial).ti.	
8	("Animals"[Mesh] OR "Animal Experimentation"[Mesh] OR "Models, Animal"[Mesh] OR rat[tiab] OR rats[tiab] OR mice[tiab] OR mouse[tiab] OR dog[tiab] OR dogs[tiab] OR pig[tiab] OR pigs[tiab] OR cow[tiab] OR cows[tiab] OR monkey[tiab] OR monkeys[tiab]) NOT ("Humans"[Mesh] OR human*[tiab]))	6 not 7	
9	#7 NOT #8	(exp animal/ or exp animal experiment/ or exp animal model/ or (rat or rats or mice or mouse or dog or dogs or pig or pigs or cow or cows or monkey or monkeys).ti,ab,kw.) not (human/ or human*.ti,ab,kw.)	
10		8 not 9	

Appendix 2: Minors criteria of included studies									Additional criteria comparative research				
Study	A clearly stated aim	Inclusion of consecutive patients	Prospective collection of data	Endpoint appropriate to the aim of the study	Unbiased assesment of the study endpoint	Follow up period appropriate to the aim of the study	Lost of follow up less than 5%	Prospective calculation of study size	An adequate control group	Contampory group	Baseline equivalent of groups	Adequate statistical analysis	Total
Aurich, 2011	2	2	2	2	2	2	2	0					14/16
Baldassarri, 2018	2	2	0	2	1	2	2	0	-	-	-	-	11/16
Chuckpaiwong, 2009	2	2	2	2	1	2	2	0	-	-	-	-	13/16
Cuttica, 2012	2	2	0	2	1	2	1	0					10/16
Irwin, 2018	2	2	0	2	2	2	1	0					11/16
Lee, 2019	2	2	0	2	1	2	1	2	-	-	-	-	11/16
Mologne, 2007	1	2	0	1	1	2	1	0	1	2	2	2	16/24
Richter, 2017	2	2	2	2	1	2	1	0	-	-	-	-	12/16
Ross, 2014	2	2	0	2	2	2	2	0	-	-	-	-	12/16
Takao, 2010	2	2	0	1	1	2	1	0	-	-	-	-	9/16

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**Appendix 3:** Summary of clinical outcome measures reported in the included studies

Outcome measure	No. reported
American Orthopaedic Foot and Ankle Society (AOFAS) ankle and hindfoot score <sup>46</sup>	5
Foot and Ankle Outcome Score (FAOS) <sup>47</sup>	2
Short-Form 12 questionnaire <sup>48</sup>	2
International Cartilage Repair Society (ICRS) score <sup>49</sup>	1
Visual Analog Scale- Foot and Ankle (VAS-FA) <sup>50</sup>	1
Visual Analog Scale pain	1