

Appendix 3A

Study	Year	Lesion Location	Number of Lesions	Mean Size of Lesion (SD/Range)
Asik <i>et al.</i> ⁴³	2008	MFC	1	<200 (76%) - >200 (24%)mm ²
Basad <i>et al.</i> ⁴⁴	2010	MFC/LFC, P	1	400-1000mm ² (mean NR)
Chung <i>et al.</i> ²⁵	2014	MFC or LFC or PF	1 to multiple	150mm ² (100mm ²)
Crawford <i>et al.</i> ²⁶	2012	MFC or LFC	1 to multiple	252mm ² (135mm ²)
Gobbi <i>et al.</i> ²⁷	2013	MFC or LFC or trochlea	1 to multiple	401mm ² (27mm ²)
Gudas <i>et al.</i> ²⁸	2012	MFC or LFC	NR	277mm ² (68mm ²)
Knutsen <i>et al.</i> ⁴⁵	2004	MFC or LFC or trochlea	1	200-1000mm ² (mean NR)
Kon <i>et al.</i> ²⁹	2011	MFC or LFC or trochlea	1 to 2	190mm ² (60mm ²)
Kon <i>et al.</i> ³⁰	2009	MFC or LFC or trochlea	1	240mm ² (140-440mm ²)
Krych <i>et al.</i> ³¹	2012	MFC or LFC or trochlea	1	255mm ² (100-625mm ²)
Lim <i>et al.</i> ³²	2012	MFC or LFC	1	277mm ² (120-360mm ²)
Marder <i>et al.</i> ⁴⁶	2005	MFC or LFC	1	<200mm ² (no specifics reported)
Mithoefer <i>et al.</i> ³³	2006	MFC or LFC	1	492mm ² (24-2000mm ²)
Mithoefer <i>et al.</i> ³⁴	2005	MFC or LFC	1	482mm ² (24-2000mm ²)
Petri <i>et al.</i> ³⁵	2012	PF	1	300mm ² (120mm ²)
Saris <i>et al.</i> ³⁶	2014	MFC or LFC or trochlea	1	470mm ² (180mm ²)
Saris <i>et al.</i> ³⁷	2008	MFC or LFC	1	240mm ² (120mm ²)
Stanish <i>et al.</i> ³⁸	2013	MFC or LFC	1	195mm ² (135mm ²)
Steadman <i>et al.</i> ³⁹	2003	Trochlea, MFC, LFC, lateral tibial plateau, medial tibial plateau, patella	1 to multiple	38mm ² (15-100mm ²)
Ulstein <i>et al.</i> ⁴⁰	2012	MFC or LFC or trochlea	1	260mm ² (200-520mm ²)
Van Assche <i>et al.</i> ⁴¹	2010	NR	NR	240mm ² (100mm ²)
Vanlauwe <i>et al.</i> ⁴²	2011	MFC or LFC	1	246.7mm ² (200-500mm ²)

Appendix 3B

Outcome Measure	Number of Patients Contributing EWB Data OR # of studies contributing EWB	EWB Score	Number of Patients Contributing DWB Data OR # of studies contributing DWB	DWB Score

	data		data	
Lysholm	20	44 (36.86 to 51.13)	288	31.0 (26.84 to 33.35)
Tegner	20	3.35 (2.29 to 4.41)	307	1.48 (1.13 to 1.88)
KOOS pain	0	N/A	96	21.5 (17.23 to 25.8)
KOOS ADL	0	N/A	199	20.23 (16.02 to 24.44)
KOOS QoL	0	N/A	199	24.75 (20.35 to 29.20)
KOOS Overall	0	N/A	138	11.33 (5.11 to 17.55)
IKDC Subjective	0	N/A	159	26.25 (22.80 to 29.84)
Complications	0	N/A	420	7.92% (95% CI = 3.62% to 13.69%); heterogeneity 75.7% (95% CI = 55.9% to 84.3%)
Reoperations	0	N/A	388	11.41% (95% CI = 5.26% to 19.52%); heterogeneity 74.8% (95% CI = 48.5% to 84.7%)

Appendix 3C

Study	Year	Complications	Reoperations
Asik <i>et al.</i> ⁴³	2008	9 recurrent painless articular effusions	0
Basad <i>et al.</i> ⁴⁴	2010	1 post-operative pain	1 arthroscopic debridement and retrograde bone grafting
Chung <i>et al.</i> ²⁵	2014	0	0
Crawford <i>et al.</i> ²⁶	2012	0	NR
Gobbi <i>et al.</i> ²⁷	2014	7 meniscal issues/pain	7 repeat arthroscopic debridement
Gudas <i>et al.</i> ²⁸	2012	13 failures (not further specified)	0
Knutsen <i>et al.</i> ⁴⁵	2004	1 post-operative pain	1 repeat arthroscopic debridement and microfracture
Kon <i>et al.</i> ²⁹	2011	0	0
Kon <i>et al.</i> ³⁰	2009	0	1 repeat arthroscopic debridement and microfracture
Krych <i>et al.</i> ³¹	2012	NR	NR
Lim <i>et al.</i> ³²	2012	0	3: 2. repeat arthroscopic debridement and microfracture; 1.

			Arthroscopic adhesiolysis and debridement
Marder <i>et al.</i> ⁴⁶	2005	2: 1 deep vein thrombosis; 1 superficial infection	5 repeat arthroscopic debridement and microfracture
Mithoefer <i>et al.</i> ³³	2006	NR	NR
Mithoefer <i>et al.</i> ³⁴	2005	NR	NR
Petri <i>et al.</i> ³⁵	2012	NR	NR
Saris <i>et al.</i> ³⁶	2014	54: 46 arthralgia; 8 joint effusions	NR
Saris <i>et al.</i> ³⁷	2008	39: 35 arthralgia; 3 joint effusions; 1 Post-operative joint crepitations	NR
Stanish <i>et al.</i> ³⁸	2013	1 serious adverse event (not further specified)	NR
Steadman <i>et al.</i> ³⁹	2003	NR	NR
Ulstein <i>et al.</i> ⁴⁰	2012	NR	6: 2. OAT mosaicplasty; 1. autologous chondrocyte implantation; 1 open wedge osteotomy; 1 removal of loose body; 1 arthroscopic debridement
Van Assche <i>et al.</i> ⁴¹	2010	NR	NR
Vanlauwe <i>et al.</i> ⁴²	2011	5 serious adverse events, not considered related to intervention	10 repeat arthroscopic debridement and microfracture