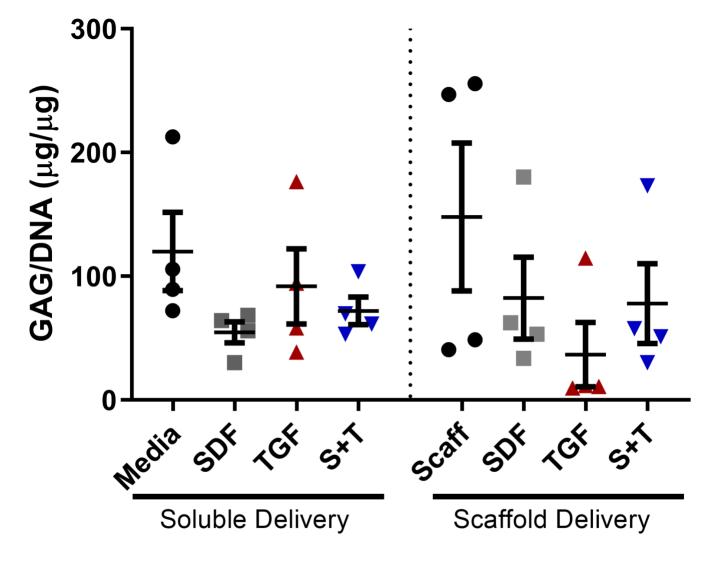
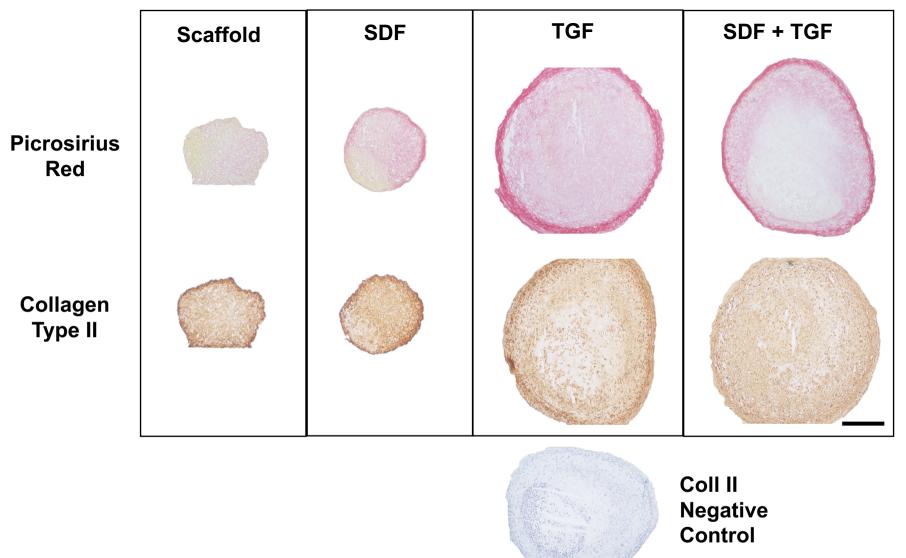
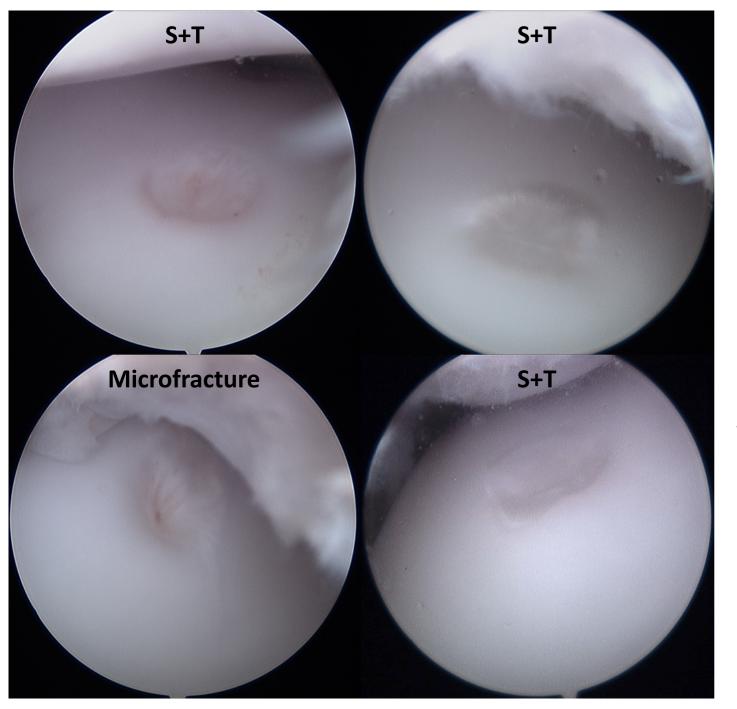
Supplementary Table 1			
ICRS Cartilage Repair Assessment		Oswestry Arthroscopy Score	
Degree of defect repair		Graft level with surrounding cartilage	
Level with surrounding cartilage	4	Level	2
75% repair of depth	3	Rasied	1
50% repair of depth	2	Below	0
25% repair of depth	1	Integration with surrounding cartilage	
0% repair of depth	0	Complete	2
Integration to border zone		Minor disruption (<25% of area	1
Complete integration	4	Major disruption (>25% of area)	0
Demarcating border <1mm	3	Appearance of surface	
3/4 of graft integrated	2	Smooth	2
1/2 of graft integrated	1	Fine fronds	1
≤1/4 of graft integrated	0	Severe fronds/fibrillation	0
Macroscopic Appearace		Color of graft	
Intact smooth surface	4	Pearly, hyaline-like	2
Fibrillated surface	3	White	1
Small, scattered fissures or cracks	2	Yellow bone	0
Several small or few but large fissures	1	Stiffness on probing	
Total degradation of grafted area	0	Normal compared to adjacent cartilage	2
Total		Softer	1
Grade I normal	12	Very soft/hard	0
Grade II nearly normal	8-11	Total	
Grade III abnormal	4-7	Normal	10
Grade IV severely abnormal	1-3		



Supplementary Figure 1 – GAG/DNA Content of MSC Pellets Co-Cultured with Scaffolds. There was no significant difference between the groups, likely due to the small amount of DNA in SDF and control scaffolds.



Supplementary Figure 2 – Collagen staining of MSC Pellets co-cultured with scaffold. All pellet groups demonstrated staining for picrosirius red and type II collagen. There was more collagen deposition in the periphery of the pellets. Scale bar = 200um



Supplementary Figure 3 – Arthroscopic observations at 12 weeks post-op. Arthroscopic images showing three defects treated with the S+T group and one MFx control within the same joint. Defect size = 4mm.