

Supplementary Materials:

Sublementary files



Figure S1: Ski with Suspended Ski Binding System ACTRI F. The damping plate consists of duralumin with pressed-in plain bearing sleeves and inserted leaf spring made of austenitic stainless chromium-nickel steel.

Table S1: Mean chondral Ht (mm) in FTJ and retropatellar.

joint	side	subject	baseline 1	fu 1-1	fu 1-2	recovery	baseline 2	fu 2-1	fu 2-2	mean SD
FTJ lateral femoral	right	1	2.53	2.39	2.48	2.68	2.41	2.03	2.28	0.22
		2	3.04	2.75	3.41	2.85	3.15	3.00	2.96	0.24
		3	2.40	2.25	2.34	2.99	2.54	2.39	2.48	0.27
		4	3.24	2.71	3.11	3.35	3.29	2.91	3.14	0.30
	left	1	2.48	2.29	2.21	2.28	2.26	2.14	2.19	0.16
		2	3.31	2.80	2.93	2.90	2.96	2.98	2.99	0.38
		3	2.36	2.14	2.23	2.29	2.40	2.20	2.21	0.16
		4	2.81	2.94	2.78	2.49	2.76	2.50	2.66	0.21
FTJ lateral tibial	right	1	3.25	3.26	3.16	3.23	3.08	2.73	3.13	0.24
		2	2.76	2.83	3.13	2.85	2.65	2.74	2.88	0.24
		3	2.49	2.29	2.30	2.81	2.55	2.16	2.35	0.24
		4	3.23	2.79	2.91	3.29	3.21	2.99	3.18	0.26
	left	1	3.09	2.69	2.49	2.63	2.63	2.51	2.58	0.25
		2	2.98	2.78	2.89	2.99	2.83	2.84	2.84	0.17
		3	2.33	2.00	2.18	2.39	2.40	2.36	2.29	0.18
		4	3.30	3.06	3.01	2.84	3.19	3.00	3.24	0.25
FTJ medial femoral	right	1	2.64	2.36	2.51	2.60	2.55	2.38	2.68	0.21
		2	2.48	2.41	2.50	2.45	2.63	2.71	2.65	0.15
		3	1.71	1.71	1.58	1.91	1.86	1.84	1.66	0.16
		4	2.59	2.66	2.43	2.76	2.33	2.69	2.66	0.21
	left	1	2.59	2.85	2.76	2.79	2.45	2.74	2.64	0.16
		2	2.66	2.98	2.44	2.65	2.59	2.63	2.33	0.27
		3	1.99	1.65	1.65	1.90	1.73	1.78	1.74	0.18
		4	2.90	2.58	2.70	2.56	2.55	2.61	2.70	0.20
FTJ medial tibial	right	1	1.70	1.98	1.93	1.98	1.90	1.98	2.05	0.18
		2	1.75	1.81	2.04	1.89	2.03	1.79	1.99	0.20
		3	1.68	1.81	1.81	1.65	1.79	1.66	1.53	0.19
		4	1.89	1.94	1.91	1.76	1.98	1.91	1.84	0.17
	left	1	1.88	2.15	2.06	1.96	1.98	1.95	1.94	0.16
		2	2.25	2.35	1.90	2.10	2.15	2.13	1.98	0.26
		3	1.91	1.84	1.68	1.58	1.84	1.71	1.76	0.16
		4	2.01	1.89	1.83	1.99	2.00	1.71	1.75	0.18
FPJ retro- pattellar	right	1	3.56	3.23	3.71	3.70	3.63	3.40	3.41	0.27
		2	3.05	2.91	3.16	2.63	2.78	2.55	2.80	0.45
		3	2.44	2.10	2.11	2.14	2.50	2.51	2.31	0.25
		4	2.40	2.18	2.38	2.54	2.49	2.28	2.28	0.20
	left	1	3.49	3.65	3.58	3.34	3.71	3.34	3.54	0.31
		2	2.79	2.78	2.54	2.60	2.91	3.14	2.73	0.29
		3	2.40	2.09	2.38	2.21	2.05	2.25	1.99	0.27
		4	3.43	2.83	3.14	3.33	3.11	3.11	3.20	0.33

Table S2: Mean Segmental Intrachondral T2*-time (ms) with SD in FTJ and retropatellar.

joint	side	subject	baseline 1	fu 1- 1	fu 1- 2	recovery	baseline 2	fu 2- 1	fu 2- 2	mean SD
FTJ lateral femoral	right	1	30.7	29.0	29.6	31.7	30.3	30.9	32.1	1.85
		2	31.9	30.6	31.3	31.1	31.5	31.6	32.0	1.93
		3	26.8	26.2	24.6	25.2	26.1	27.9	24.2	2.23
		4	25.5	27.8	26.2	30.0	26.7	26.0	26.6	2.32
	left	1	29.8	31.6	32.1	33.3	32.0	32.8	34.1	2.13
		2	31.1	29.7	30.2	31.5	30.8	30.8	30.8	1.88
		3	25.3	25.7	23.9	25.8	25.6	25.4	26.4	1.52
		4	26.2	26.2	28.2	29.8	26.5	27.6	25.9	2.42
FTJ lateral tibial	right	1	18.9	19.7	20.1	20.3	19.3	22.1	20.8	1.58
		2	19.2	18.7	18.7	19.8	18.7	19.3	19.4	1.32
		3	18.3	17.5	17.5	15.6	17.3	18.5	16.4	1.40
		4	19.2	21.4	20.4	19.7	20.4	20.5	20.0	1.48
	left	1	22.2	23.4	24.4	24.6	22.4	24.1	23.1	1.81
		2	19.5	20.1	18.7	20.0	20.4	19.4	18.0	1.48
		3	17.8	18.6	17.4	17.7	17.4	17.6	17.2	1.16
		4	20.4	20.2	21.5	23.2	21.4	20.3	19.9	1.78
FTJ medial femoral	right	1	28.8	26.4	26.5	28.0	26.4	26.6	27.8	2.10
		2	29.9	28.3	25.1	27.7	27.9	28.9	26.6	2.42
		3	22.5	22.7	22.2	22.1	23.8	23.5	23.1	1.56
		4	27.1	27.3	26.5	28.1	26.6	26.8	25.9	1.70
	left	1	28.0	27.2	26.9	28.2	27.2	27.6	27.1	1.47
		2	30.2	30.3	28.5	31.5	30.3	29.0	27.4	3.03
		3	22.6	24.2	23.2	23.3	23.5	23.4	22.3	1.20
		4	24.0	24.7	24.3	28.1	25.3	24.9	23.4	2.13
FTJ medial tibial	right	1	24.1	23.5	21.7	23.7	22.9	21.7	22.3	1.74
		2	27.5	25.0	25.0	24.2	25.2	27.3	22.8	2.63
		3	22.6	21.8	20.3	22.6	22.8	22.1	21.4	1.64
		4	22.7	21.4	22.4	23.3	23.0	23.1	23.1	1.42
	left	1	21.7	19.8	20.8	22.4	22.8	21.6	22.0	1.66
		2	24.8	21.4	25.4	25.6	24.5	24.1	23.3	3.21
		3	20.8	21.6	20.8	22.6	22.0	21.7	20.5	1.38
		4	19.2	20.6	19.9	20.1	20.8	19.7	21.4	1.52
FPJ retro- pattellar	right	1	29.9	28.2	29.2	33.0	30.7	30.1	29.7	2.20
		2	29.7	28.9	29.9	30.3	28.5	28.1	29.0	2.68
		3	27.1	24.3	25.3	26.0	25.6	26.2	25.8	1.40
		4	21.0	24.1	22.6	22.2	23.1	21.9	23.6	1.61
	left	1	30.8	29.7	28.2	31.6	30.2	29.0	29.6	2.34
		2	27.9	28.3	27.6	30.4	29.7	28.5	29.3	2.09
		3	26.6	27.0	25.9	26.8	25.8	26.5	25.2	1.57
		4	20.0	21.4	21.1	21.0	20.8	20.7	21.0	1.21