

Appendix

TABLE E-1 Patient Characteristics and Follow-up Duration by Case*

Case	Age	Sex	Sport	Localization	ICRS OCD Classification	Epiphyseal Plate	Preop. Degenerative Changes	Size of the Defect (cm ²)	No. of Grafts	Follow-up Period (mo)
1	25	M	Baseball	Lateral	IV	Closed	+	1.76	1	147
2	15	M	Baseball	Central	IV	Closed	+	1.4	1	38
3	13	M	Baseball	Central	III	Closed	–	1.05	1	41
4	24	M	Baseball	Lateral	IV	Closed	+	2.1	1	77
5	15	M	Baseball	Lateral	IV	Closed	+	2.25	1	91
6	14	M	Baseball	Lateral	IV	Closed	+	2.7	1	88
7	21	M	Baseball	Lateral	IV	Closed	–	1.92	1	73
8	15	M	Baseball	Lateral	IV	Closed	–	1.1	1	45
9	13	M	Baseball	Central	III	Closed	–	1.1	1	37
10	14	M	Baseball	Central	III	Closed	–	1.3	1	47
11	13	M	Baseball	Lateral	IV	Closed	–	1.2	1	78
12	16	M	Baseball	Lateral	IV	Closed	–	2	1	45
13	17	M	Baseball	Lateral	IV	Closed	+	1.1	1	123
14	13	M	Baseball	Lateral	IV	Closed	–	1.8	1	48
15	14	M	Baseball	Lateral	III	Closed	+	1.5	1	121
16	14	F	Gymnastics	Central	III	Closed	–	1	1	63
17	14	M	Baseball	Lateral	IV	Closed	+	3.52	2	70
18	13	M	Tennis	Lateral	III	Closed	–	1.3	1	96
19	11	M	Baseball	Lateral	III	Closed	–	1.92	1	48
20	12	M	Baseball	Central	IV	Closed	–	3.2	2	50
21	13	M	Baseball	Lateral	IV	Closed	–	3	2	61
22	14	M	Baseball	Lateral	IV	Closed	–	1.44	1	96
23	14	M	Baseball	Lateral	III	Closed	+	1.8	1	45
24	13	M	Baseball	Central	III	Closed	–	1.8	1	107
25	13	M	Baseball	Lateral	IV	Closed	+	2.7	2	108
26	14	M	Baseball	Lateral	III	Closed	–	1.54	1	79
27	13	M	Baseball	Lateral	III	Closed	–	1.44	1	57
28	12	M	Baseball	Lateral	IV	Closed	+	3	2	84
29	14	M	Baseball	Lateral	IV	Closed	+	2.36	2	36

30	15	M	Baseball	Lateral	IV	Closed	+	2.7	2	88
31	14	M	Baseball	Lateral	IV	Closed	+	1.5	1	47
32	13	M	Baseball	Lateral	IV	Closed	+	4	2	72
33	18	M	Baseball	Central	III	Closed	+	3.2	2	44
34	15	M	Baseball	Central	III	Closed	–	1.1	1	66
35	14	M	Baseball	Lateral	IV	Closed	–	1.7	1	67
36	16	M	Baseball	Lateral	IV	Closed	+	3	2	50
37	13	M	Baseball	Lateral	IV	Closed	–	2.7	1	66
38	13	M	Baseball	Lateral	III	Closed	–	1.35	1	36
39	14	M	Baseball	Lateral	IV	Closed	–	3	2	49
40	13	M	Baseball	Lateral	IV	Closed	–	3.3	2	74
41	15	M	Baseball	Lateral	IV	Closed	–	2.6	2	61
42	15	M	Baseball	Lateral	III	Closed	–	1.5	1	55
43	12	M	Baseball	Lateral	IV	Closed	–	2.47	1	60
44	14	M	Baseball	Central	IV	Closed	–	1.1	1	43
45	15	M	Baseball	Lateral	IV	Closed	–	2.77	2	49
56	18	M	Baseball	Lateral	IV	Closed	+	2.36	2	47
57	13	M	Baseball	Lateral	IV	Open	–	1.7	1	63
48	16	M	Baseball	Lateral	IV	Closed	+	2.47	2	57
49	14	M	Baseball	Lateral	IV	Closed	–	2.5	2	41
50	13	M	Handball	Central	IV	Closed	–	1.44	1	38
51	17	M	Baseball	Central	IV	Closed	–	3	2	45
52	14	M	Baseball	Central	IV	Closed	–	1.44	1	36
53	13	M	Basketball	Central	IV	Closed	–	1.7	1	53
54	13	M	Baseball	Lateral	IV	Closed	–	2.25	2	39
55	13	M	Baseball	Central	III	Closed	–	1.3	1	37
56	14	M	Baseball	Lateral	III	Closed	–	1.4	1	40
57	14	M	Baseball	Lateral	III	Closed	–	1.69	1	39
58	13	M	Baseball	Lateral	IV	Closed	–	2.4	2	42
59	16	M	Baseball	Lateral	IV	Closed	+	1.92	2	41
60	13	M	Baseball	Lateral	IV	Closed	–	2.08	2	39
61	14	M	Baseball	Lateral	III	Closed	–	1.8	1	40
62	13	M	Baseball	Central	III	Closed	–	2.1	1	39
63	14	M	Gymnastics	Lateral	IV	Closed	+	2.09	2	39
64	13	M	Baseball	Lateral	IV	Closed	–	3	2	37
65	14	M	Baseball	Central	IV	Closed	–	1.7	1	36

66	14	M	Baseball	Lateral	III	Closed	–	2	1	36
67	13	M	Baseball	Central	IV	Closed	–	2.47	2	41
68	11	M	Baseball	Lateral	III	Open	–	1.3	1	38
69	12	M	Baseball	Central	III	Closed	–	1.8	1	37
70	13	M	Baseball	Lateral	IV	Closed	–	2.47	2	37
71	14	M	Baseball	Central	IV	Closed	–	3	2	36
72	14	M	Baseball	Lateral	IV	Closed	–	3.52	2	36
Average								2.07		57

*ICRS OCD classification = International Cartilage Repair Society osteochondritis dissecans classification of lesions.

TABLE E-2 Range of Motion (ROM) Measurements in Degrees by Case

Case	Preop. Extension	Preop. Flexion	Preop. ROM	1 Yr Postop. Extension	1 Yr Postop. Flexion	1 Yr Postop. ROM	Final Extension	Final Flexion	Final ROM
1	-35	95	60	-5	135	130	-10	135	125
2	-55	115	60	0	128	128	0	130	130
3	-15	105	90	0	135	135	0	135	135
4	-42	115	73	-10	135	125	-17	135	118
5	-30	110	80	0	140	140	0	140	140
6	-55	115	60	-15	140	125	-20	140	120
7	-35	95	60	-4	125	121	-5	120	115
8	-35	115	80	-15	135	120	-15	135	120
9	-10	130	120	0	135	135	0	135	135
10	-10	115	105	5	135	140	5	130	135
11	-35	95	60	-15	140	125	-25	140	115
12	-25	120	95	0	130	130	0	130	130
13	-25	100	75	5	140	145	8	138	146
14	-30	110	80	-10	135	125	-10	130	120
15	-40	110	70	5	135	140	5	135	140
16	-20	125	105	5	140	145	5	140	145
17	-30	100	70	0	135	135	0	135	135
18	-20	130	110	0	140	140	0	140	140
19	-20	130	110	0	140	140	0	138	138
20	-10	115	105	0	135	135	0	128	128
21	-20	120	100	-5	138	133	0	135	135
22	-15	130	115	0	140	140	0	140	140
23	-40	95	55	5	135	140	5	130	135
24	-10	125	115	5	138	143	5	140	145
25	-20	125	105	-10	135	125	-23	105	82
26	-10	130	120	5	140	145	0	135	135
27	-30	110	80	5	140	145	5	135	140
28	-10	130	120	0	140	140	5	140	145
29	-15	125	110	0	140	140	-10	140	130
30	-30	115	85	-5	130	125	-15	125	110
31	-35	120	85	0	135	135	-5	135	130
32	-45	110	65	-10	130	120	-25	125	100

33	-20	125	105	0	140	140	5	140	145
34	-15	130	115	0	135	135	0	135	135
35	-30	130	100	0	140	140	-5	140	135
36	-30	100	70	-5	140	135	-12	140	128
37	-20	110	90	0	130	130	0	130	130
38	-20	120	100	0	135	135	0	140	140
39	-38	123	85	-5	140	135	-5	135	130
40	-20	125	105	-5	140	135	-5	135	130
41	-50	108	58	-10	140	130	-16	140	124
42	-10	135	125	0	140	140	0	140	140
43	-22	125	103	-4	140	136	-10	140	130
44	-10	130	120	5	140	145	5	145	150
45	-10	128	118	0	135	135	0	135	135
56	-20	125	105	-5	138	133	-10	135	125
57	-20	125	105	-20	135	115	-30	132	102
48	0	128	128	0	135	135	0	135	135
49	-20	130	110	-10	135	125	-16	134	118
50	-16	136	120	0	145	145	-10	145	135
51	-25	125	100	-5	140	135	-10	135	125
52	-5	125	120	5	135	140	8	135	143
53	-20	120	100	-8	135	127	-15	134	119
54	-20	140	120	-5	140	135	-10	140	130
55	0	135	135	0	140	140	0	140	140
56	0	135	135	10	145	155	15	145	160
57	-10	130	120	5	135	140	5	136	141
58	0	134	134	10	140	150	10	140	150
59	-25	140	115	-4	135	131	-14	142	128
60	-18	130	112	-3	140	137	-5	138	133
61	0	140	140	5	140	145	10	140	150
62	-5	135	130	0	138	138	0	135	135
63	-30	108	78	-8	135	127	-10	132	122
64	-5	130	125	0	140	140	0	144	144
65	-22	130	108	-8	140	132	-14	140	126
66	-20	135	115	0	135	135	0	135	135
67	0	135	135	5	135	140	4	136	140
68	-30	110	80	0	135	135	5	135	140

69	-10	134	124	0	140	140	0	140	140
70	0	135	135	0	140	140	0	140	140
71	-20	125	105	-5	138	133	-11	134	123
72	0	135	135	0	140	140	0	145	145
Average	-20.74	121.93	101.19	-1.79	137.19	135.40	-3.86	135.99	132.13

Table E-3 Clinical Scores by Case*

Case	Preop. Clinical Score: Subj.	Preop. Clinical Score: Obj.	Preop. Overall Clinical Rating Score	Preop. Scoring	1 Yr Postop. Clinical Score: Subj.	1 Yr Postop. Clinical Score: Obj.	1 Yr Postop. Overall Clinical Rating Score	1 Yr Postop. Scoring	Latest Clinical Rating Score: Subj.	Latest Clinical Rating Score: Obj.	Latest Overall Clinical Rating Score	Latest Scoring
1	20	25	45	P	100	85	185	E	100	85	185	E
2	25	30	55	P	100	90	190	E	100	90	190	E
3	60	55	115	P	100	100	200	E	100	100	200	E
4	35	30	65	P	100	85	185	E	100	65	165	G
5	35	45	80	P	100	100	200	E	100	100	200	E
6	25	20	45	P	100	85	185	E	100	75	175	G
7	50	40	90	P	100	90	190	E	100	75	175	G
8	50	45	95	P	100	85	185	E	100	85	185	E
9	35	85	120	F	100	100	200	E	100	100	200	E
10	60	65	125	F	100	100	200	E	100	100	200	E
11	35	35	70	P	95	85	180	E	95	65	160	G
12	50	45	95	P	100	90	190	E	100	90	190	E
13	35	45	80	P	100	100	200	E	100	100	200	E
14	35	45	80	P	100	85	185	E	100	85	185	E
15	40	30	70	P	100	100	200	E	100	100	200	E
16	70	55	125	F	100	100	200	E	100	100	200	E
17	35	35	70	P	85	100	185	E	90	100	190	E
18	60	65	125	F	100	100	200	E	100	100	200	E
19	35	65	100	P	100	100	200	E	100	100	200	E
20	70	65	135	F	100	100	200	E	100	90	190	E
21	40	50	90	P	100	95	195	E	100	100	200	E
22	50	75	125	F	100	100	200	E	100	95	195	E
23	30	25	55	P	100	100	200	E	100	100	200	E
24	50	75	125	F	100	100	200	E	100	100	200	E
25	30	50	80	P	100	85	185	E	100	45	145	F
26	35	85	120	F	100	100	200	E	100	100	200	E
27	35	45	80	P	100	100	200	E	100	100	200	E
28	45	85	130	F	95	100	195	E	100	100	200	E
29	35	75	110	P	90	100	190	E	100	85	185	E
30	35	45	80	P	100	85	185	E	95	75	170	G

31	50	40	90	P	100	100	200	E	100	85	185	E
32	25	20	45	P	95	80	175	G	95	55	150	F
33	50	55	105	P	100	100	200	E	100	100	200	E
34	60	75	135	F	100	100	200	E	100	100	200	E
35	70	55	125	F	100	100	200	E	100	95	195	E
36	40	40	80	P	100	95	195	E	100	85	185	E
37	40	40	80	P	100	90	190	E	100	90	190	E
38	60	55	115	P	100	100	200	E	100	100	200	E
39	45	35	80	P	100	95	195	E	100	85	185	E
40	35	55	90	P	100	95	195	E	100	85	185	E
41	20	15	35	P	95	85	180	E	100	75	175	G
42	50	85	135	F	100	100	200	E	100	100	200	E
43	40	55	95	P	100	100	200	E	100	85	185	E
44	40	85	125	F	100	95	195	E	100	95	195	E
45	45	75	120	F	100	100	200	E	100	100	200	E
56	35	55	90	P	100	95	195	E	100	85	185	E
57	25	50	75	P	95	65	160	G	95	55	150	F
48	45	90	135	F	100	100	200	E	100	100	200	E
49	25	65	90	P	100	85	185	E	100	65	165	G
50	35	75	110	P	100	100	200	E	100	95	195	E
51	35	55	90	P	100	95	195	E	95	85	180	E
52	35	85	120	F	100	95	195	E	100	95	195	E
53	30	50	80	P	95	85	180	E	95	75	170	G
54	30	75	105	P	100	95	195	E	100	85	185	E
55	50	100	150	F	100	100	200	E	100	100	200	E
56	35	100	135	F	100	100	200	E	100	100	200	E
57	35	85	120	F	100	100	200	E	100	100	200	E
58	35	100	135	P	100	100	200	E	100	100	200	E
59	40	60	100	P	100	100	200	E	100	85	185	E
60	35	65	100	P	100	100	200	E	100	95	195	E
61	40	100	140	F	100	100	200	E	100	100	200	E
62	35	85	120	F	100	100	200	E	100	100	200	E
63	45	40	85	P	100	85	185	E	100	85	185	E
64	40	85	125	F	100	100	200	E	100	100	200	E
65	25	50	75	P	100	95	195	E	100	75	175	G
66	35	60	95	P	100	100	200	E	100	100	200	E

67	35	100	135	F	100	100	200	E	100	100	200	E
68	50	45	95	P	100	100	200	E	100	100	200	E
69	35	85	120	F	100	100	200	E	100	100	200	E
70	45	100	145	F	100	100	200	E	100	100	200	E
71	35	55	90	P	100	95	195	E	95	85	180	E
72	45	100	145	F	100	100	200	E	100	100	200	E
Average	40.35	60.21	100.56		99.24	95.42	194.65		99.38	90.35	189.72	

*Subj. = subjective, Obj. = objective, E = excellent, G = good, F = fair, and P = poor.