

TABLE E1 Patient Profile

Case	Age (yr.)	Mechanism of Injury ^a	Time to Surgery	Affected Structures and Degrees of Laxity ^b				Peroneal Nerve	Tourniquet time (min.) ^c	F/U (mo.)
				ACL	PCL	MCL	LCL			
Acute (n=19)										
1	25	Sports	11 d	2+	3+	3+	0	Normal	130	59
2	28	Fall	10 d	3+	3+	1+	1+	Transient	120+30	55
3	33	Sports	5 d	3+	3+	2+	0	Normal	120+20	45
4	16	Sports	12 d	3+	3+	3+	0	Normal	120+50	49
5	22	Sports	8 d	3+	3+*	3+	0	Normal	135	30
6	36	Work	9 d	3+	3+	3+	0	Normal	124	41
7	29	Work	19 d	3+	3+	2+	0	Normal	120+30	67
8	18	Sports	9 d	3+	3+	0	3+##	Transient	130	25
9	18	MVA	12 d	3+	3+	0	3+##	Normal	135	36
10	19	Sports	14 d	3+	2+	3+	0=	Normal	135	39
11	22	MVA	10 d	3+	3+	0	3+*#	Permanent	120+20	35
12	26	Sports	10 d	3+	3+	0	3+##	Normal	135	24
13	18	Sports	6 d	3+	3+	3+	0	Normal	120+40	66
14 ^d	21	MVA	20 d	3+	3+	0	3+	Normal	111	42
15	48	Sports	7 d	3+	3+	3+	0	Normal	130	45
16	16	Sports	19 d	3+	3+	0	3+##	Transient	135	24
17 ^e	17	Sports	18 d	3+	3+	0	0 ⁼	Normal	87	31
18	29	MVA	21 d	3+	2+	0	3+##	Normal	120+30	62
19	20	work	6 d	3+	3+	3+	1+	Normal	120+25	53
Chronic (n=12)										
20	29	Sports	10 mo	3+	3+	0	0	Normal	120	42
21	36	Work	22 mo	3+	3+	0	3+	Normal	120+20	71
22	40	MVA	5 wks	3+	3+	3+	0	Normal	132	32
23	46	MVA	1 mo	3+	3+	2+	0	Normal	120	72
24	23	Sports	6 mo	3+	3+	0	0	Normal	120+17	39
25	17	Sports	1 mo	3+*	3+	0	0	Normal	120+45	51
26	29	MVA	5 mo	3+	3+	2+	0	Normal	120+30	29
27	47	Fall	5 mo	3+	3+	3+~	0	Normal	130	33
28	16	Sports	6 wks	3+	3+	0	0	Normal	100	24
29	40	Sports	7 mo	3+	3+	3+	0	Normal	120+30	24
30	44	MVA	7 mo	3+	3+	0	3+	Normal	120+20	66
31	51	Sports	12 mo	3+	3+	0	0	Normal	110	60

^aMVA, motor-vehicle accident.^bACL, anterior cruciate ligament; PCL, posterior cruciate ligament; MCL, medial collateral ligament; LCL, lateral collateral ligament. The degree of laxity was graded as follows: 0, 0-2 mm increased translation; 1+, 3-5 mm increased translation; 2+, 6-10 mm increased translation, 3+, >10 mm increased translation. MCL and LCL laxity were determined by opening to stress at 30 degrees of flexion.^{*}Denotes an avulsion injury that was repaired; #Represents an injury to the posterolateral corner that required repair; = The lateral collateral ligament and posterolateral corner in this patient were intact, but the anterolateral capsule and iliotibial band insertion were avulsed and required repair; ~ The medial collateral ligament in this patient was repaired and augmented with a semitendinosus autograft.^cTourniquet times with a "+" indicate release of the tourniquet for 30 minutes after the initial 2 hours followed by reinflation for the additional time period indicated.^dThis patient had concomitant bilateral open grade-3A tibial fractures and a contralateral leg compartment syndrome that required release.^eThis patient had an avulsion of the patellar tendon that required repair.

TABLE E2 Follow-up Evaluation Results

Case	Total motion arc (deg)	Ext. loss ^a (deg)	Flex. loss ^b (deg)	Lysholm score	KOS ADL ^c	KOS Sports ^d	Meyers rating	Lachman	PD ^e	Varus laxity (30°)	Valgus laxity (30°)
Acute (n=19)											
1	141	2	18	99	98	96	Ex	0	1+	0	1+
2	120	0	20	90	85	84	Good	0	1+	1+	0
3	145	0	10	88	95	84	Good	1+	1+	0	0
4*	136	0	8	90	89	88	Good	0	1+	0	1+
5	122	4	9	85	91	86	Good	1+	1+	1+	1+
6	138	0	0	94	91	78	Good	1+	1+	0	1+
7*	118	1	10	72	73	60	Fair	1+	1+	0	2+
8	139	5	21	100	99	98	Ex	1+	2+	1+	1+
9	131	0	22	93	91	92	Good	1+	1+	1+	0
10	132	1	4	90	93	86	Good	1+	2+	0	0
11	130	5	10	80	86	92	Good	0	1+	0	0
12	131	0	11	95	94	94	Ex	0	1+	0	0
13*	115	5	10	93	96	98	Ex	0	1+	0	0
14*	115	0	26	88	89	94	Fair	1+	1+	2+	0
15	117	0	33	88	92	94	Good	0	1+	0	0
16^	115	0	10	86	83	72	Fair	0	2+	1+	0
17	125	0	15	99	94	96	Ex	1+	1+	1+	0
18	138	3	3	90	98	100	Ex	1+	1+	1+	0
19	125	0	10	100	99	100	Ex	0	1+	1+	0
Avg acute	128	1.5	13	91	91	89					
Chronic (n=12)											
20	144	0	3	95	99	100	Ex	0	2+	0	0
21	125	1	13	51	64	0	Poor	0	2+	2+	0
22	110	0	19	85	84	NA	Good	1+	2+	0	2+
23	130	1	14	92	89	68	Good	1+	1+	0	2+
24	144	0	4	50	71	60	Poor	0	1+	0	0
25	142	4	6	95	98	96	Ex	0	1+	0	0
26	143	0	0	86	88	76	Good	1+	2+	0	0
27	104	4	32	84	73	58	Fair	1+	1+	0	0
28	110	1	#	62	74	52	Poor	1+	2+	0	0
29	133	0	5	100	91	76	Ex	0	1+	0	2+
30	125	0	9	80	81	80	Fair	1+	2+	1+	0
31	140	0	10	84	99	94	Good	0	1+	0	0
Avg. chronic	129	0.9	11	80	84	69					
Average all patients	128	1.2	12	87	89	82					

^aLoss of extension is recorded as degrees greater than full extension, or anatomic zero.

^bNumber represents degrees of flexion of the intact, uninjured knee minus degrees of flexion of the injured knee.

^cKnee Outcome Survey, Activities of Daily Living Scale.

^dKnee Outcome Survey, Sports Activity Scale.

^ePD, posterior drawer.

NA, This patient declined to answer the sports portion for the Knee Outcome Survey.

*Indicates patient required a manipulation postoperatively for arthrofibrosis.

#This patient had poor motion in the contralateral knee from a prior injury and comparison was not performed.

^This patient required a revision allograft reconstruction of the anterior cruciate ligament after rupture at 18 months postoperatively.