TABLE E-1. Patient Demographics and Elbow Range of Motion Data*

Age	Sex	Injury	Post Incis	OA	Pre Ext	Pre Flex	Post Ext	Post Flex	Pre Arc	Post Arc	Arc Change	Continuous Passive Motion Machine	Complications	Additional Procedures	Prior Procedures	F/U Interval *(mo)*	Time to Surg *(mo)*	Continuous Axillary Block
15	M	Lateral Condyle Fracture		Yes	42	80	17	102	38	85	47	Yes	None	Coronoid Osteophyte Excision	ORIF Lateral Condyle; Arthroscopic Débridement	24	12	
36	M	Elbow Dislocation, Radial Head Fracture		No	23	123	0	150	100	150	50	Yes	None	Radial Head Excision and Implant	Partial Radial Head Resection	16	8	
33	M	Elbow Dislocation, Radial Head Fracture		No	45	130	20	135	85	115	30	No	None	Ulnar Nerve Decompression	None	20	10	
27	M	No Specific Injuries	Yes	No	58	135	20	122	77	102	25	Yes	None	Olecranon and Coronoid Osteophyte Excision	None	22	X	
29	M	Weight-lifter	Yes	No	30	102	20	120	72	100	28	Yes	Ulnar Nerve Palsy, Resolved after Transposition	Coronoid Osteotomy	None	37	X	
37	M	Primary Osteoarthrosis	Yes	No	40	95	15	130	55	115	60	Yes	None	Osteophyte Excision	None	33	X	Yes
46	M	Radial Head, Olecranon Fracture		Yes	62	112	44	124	50	80	30	Yes	None	ROH ORIF Olecranon Nonunion with ICBG	ORIF ×2	26	16	
29	F	Radial Head Fracture		No	55	150	35	135	95	100	5	Yes	None	Ulnar Nerve Transposition	Excision Radial Head and Coronoid Fragment; Manipulation	60	12	Yes
22	M	Open Intra-articular Distal Humerus Fracture		No	45	112	5	110	67	105	38	Yes	Transient Radial Nerve Palsy	Ext Rotation Humeral Osteotomy	I&D, Traction; ORIF + ICBG	12	10	
66	F	Intra-articular Distal Humerus Fracture		Yes	66	110	5	140	44	135	91	Yes	None	Removal of Loose Body	ORIF	17	11	
44	M	Elbow Dislocation with Coronoid Fracture		No	63	113	15	110	50	95	45	Yes	None	Resection of Heterotopic Bone	None	18	18	
13	F	Elbow Dislocation with Radial Head Fracture		No	70	108	60	100	38	40	2	Yes	None	None	ORIF	12	8	Yes
22	M	Radial Head Fracture, Proximal Ulna Fracture	Yes	Yes	42	95	12	125	53	113	60	Yes	None	Removal of Loose Bodies, Olecranon and Coronoid Osteophyte Excision, Ulnar Nerve Decompression	ORIF; Removal of Loose Body; Manipulation	13	11	
50	M	Radial Head Fracture		No	66	82	55	75	16	20	4	Yes	None	Post. Release, Ulnar Nerve Transposition	Closed Reduction; Arthroscopic Débridement	12	8	
62	F	Tumor Excision		No	40	111	20	130	71	110	39	No	None	Removal Loose Bodies, Coronoid Osteophyte and Radial Head Resection	Radial Head Resection	65	X	
31	F	Capitellum Fracture		No	40	140	5	135	100	130	30	Yes	None	Neurolysis of LABCN	Excision of capitellum	84	6	Yes
44	M	Gunshot Wound, Elbow		No	59	87	0	125	28	125	97	Yes	Transient Ulnar Neuritis	Excision of Heterotopic Bone	None	74	36	
49	M	Open Distal Humerus Fracture	Yes	No	43	122	20	125	79	105	26	Yes	None	Removal of Hardware	ORIF; Ulnar Nerve Decompression	25	21	Yes
18	M	Brachial Plexopathy		No	80	148	5	125	68	120	52	Yes	Avulsion LABCN	Z-Lengthening of Brachialis and Biceps	None	43	221	Yes
24	M	Elbow Dislocation, Radial Head and Coronoid Fracture	Yes	Yes	66	82	40	110	16	70	54	Yes	Superficial Wound Infection; Pain/Decreased Motion; Interposition Arthroplasty, 7/8/96	Excision of Radial Head and Olecranon Osteophytes; Removal Loose Bodies	ORIF; Capsular Release	36	13	
52	F	Intercondylar Humerus Fracture		No	65	107	45	120	42	75	33	No	None	Radial N Exploration; Sural Nerve Graft	ORIF, ROH, Radial N Exploration	62	5	
13	M	Infection	Yes	Yes	62	150	35	133	88	98	10	No	None	Pronator and Brachialis Release; Olecranon Osteophyte Excision	Drainage of Elbow Infection	18	12	
52	M	Supracondylar Humerus and Olecranon Fracture	Yes	No	70	90	5	100	20	95	75	Yes	None	Ulnar N Decomp.; Olecranon Osteophyte Excision	ORIF	29	10	
35	M	Osteochondrosis		Yes	30	90	25	118	60	93	33	Yes	None	Ulnar and Humeral Osteophyte Excision; Removal of Loose Body	None	29	240	
21	M	Open Lateral Condylar Fracture		Yes	35	130	20	145	95	125	30	No	None	None	ORIF; ROH	12	22	
32	M	Radial Head Fracture		Yes	41	131	11	124	90	113	23	Yes	None	Excision Radial Head Remnant; Insertion Radial Head Implant	Radial Head Excision	18	14	
33	M	Radial Head Fracture		No	62	109	13	136	47	123	76	Yes	None	None	None	13	7	
17	F	Olecranon Open Fracture	Yes	No	90	90	0	130	0	130	130	Yes	Pin Palsy -Explored 7/29/94, Neuroma in Continuity, Grafted with LABCN, Incomplete Digital Ext Recovery	ROH; Resection of Heterotopic Bone	ORIF	12	6	Yes
51	M	Throwing Athlete	Yes	No	25	125	5	130	100	125	25	Yes	None	Carpal Tunnel Release	Posterior Release; Removal Loose Body	74	X	
20	F	MCL Tear		No	25	120	3	125	95	122	27	Yes	None	None	Arthroscopic Débridement	12	7	Yes
56	F	Soft Tissue Injury		No	77	154	10	135	77	125	48	No	Dysesthesia, Paresthesia Superficial Radial Nerve	None	Extensor Origin Release; Manipulation	18	23	
35	M	Seronegative Spondylo-arthropathy		Yes	25	110	5	123	85	118	33	Yes	None	Removal Loose Body; Excision Coronoid and Humeral Osteophyte	None	12	X	Yes
38	M	Radial Head Fracture		No	42	125	5	120	83	115	32	Yes	None	Removal Loose Bodies	None	77	9	
17	M	Intra-articular Distal Humerus Fracture	Yes	Yes	47	110	7	112	63	105	42	Yes	None	ROH, Excision of Olecranon and Coronoid Spurs	ORIF	35	7	Yes
40	F	Supracondylar Humerus Fracture		Yes	30	88	25	115	58	90	32	Yes	None	Brachialis Release	ORIF	20	7	
43	M	Capitellum Fracture	Yes	No	55	126	10	130	71	120	49	Yes	Required Ulnar Nerve Transposition 12/15/00	ROH	ORIF	15	14	Yes
55	F	Capitellum, Distal Ulna, Radius Fracture		No	85	102	10	110	17	100	83	Yes	Required Ulnar Nerve Transposition	Ulnar Neurolysis; Excision of Capitellum	Excision of Capitellum	16	24	

36	M	Supracondylar Humerus Fracture	Yes	No	80	85	30	110	5	80	75	Yes	None	Resection of Heterotopic Bone; Ulnar N Transposition	ORIF, Radial Head Excision	28	6	
53	M	Closed Head Injury	Yes	No	90	90	10	95	0	85	85	Yes	None	MCL Reconstruction (Plantaris Graft); Ulnar N Transposition; Flexor Pronator Slide; Excision Heterotopic Bone	None	42	29	
43	F	Distal Humerus Fracture		Yes	50	125	20	116	75	96	21	Yes	None	Ulnar N Transposition; Excision Capitellum Osteophyte, Brachialis Release	None	12	23	
35	M	Open Comminuted Intra-articular Distal Humerus Fracture	Yes	No	70	75	25	115	5	90	85	Yes	Deep Wound Infection Requiring I&D	Excision of Heterotopic Bone	I&D, ORIF	19	13	
40	M	Hyperextension Injury	Yes	No	60	90	30	95	30	65	35	Yes	None	Removal of Loose Bodies; Excision of Olecranon Osteophyte	None	14	36	
25	F	Radial Head Fracture		No	26	120	20	120	94	100	6	No	None	Ulnar N Transposition; Radial Head Implant	Radial Head Excision	14	14	
14	M	Lateral Condyle Fracture		Yes	52	134	33	130	82	97	15	Yes	None	None	None	12	11	
32	M	Humerus, Ulna, and Radius Fracture		No	55	130	25	105	75	80	5	No	None	None	ORIF	40	72	
32	F	Olecranon Fracture		No	45	160	15	140	115	125	10	No	None	None	Excision of Fragment	60	8	
17	F	Lateral Condyle Fracture		No	60	120	5	135	60	130	70	No	None	None	None	120	48	Yes
25	F	Trochlea Fracture		Yes	45	95	5	120	50	115	65	No	None	None	ORIF	78	3	
22	F	Supracondylar Humerus Fracture		No	60	95	30	65	35	35	0	No	None	None	ORIF	29	12	
22	M	Hyperextension Injury		No	10	160	5	135	150	130	-20	No	None	None	None	46	48	
18	M	Intercondylar Humerus Fracture		Yes	20	130	10	120	110	110	0	No	None	None	ORIF	41	156	
51	M	Radial Head Fracture		No	70	90	20	110	20	90	70	No	None	None	Excision of Heterotopic Bone	53	8	
42	M	Intra-articular Distal Humerus Fracture		Yes	35	75	30	90	40	60	20	No	None	None	ORIF; Ulnar N Transposition	37	24	
31	M	Intra-articular Distal Humerus Fracture		No	65	115	25	130	50	105	55	No	None	None	ORIF; Tendon Transfer; Posterior Release	26	96	
18	F	Intercondylar Humerus Fracture		No	70	105	30	90	35	60	25	No	None	None	ORIF	41	7	
35	M	Radial Head Fracture, Elbow Dislocation		No	40	115	20	105	75	85	10	No	None	None	Radial Head Replacement	28	17	
34	M	Radial Head Fracture		No	50	125	35	105	75	70	-5	No	None	None	Manipulation	24	24	
32	F	Capitellum Fracture		Yes	45	120	10	125	75	115	40	No	None	None	Excision of Capitellum	25	12	
31	M	Lateral Condyle Fracture		No	50	120	15	130	70	115	45	No	None	None	ORIF	30	12	
30	F	Intercondylar Humerus Fracture		No	80	80	40	105	0	65	65	Yes	None	None	ORIF	48	11	
20	M	Elbow Degloving		No	35	130	15	120	95	105	10	No	None	None	Free Tissue Transfer	72	27	
25	M	Open Humeral Condyle Fracture		Yes	55	80	25	78	25	53	28	Yes	None	None	I&D × 3	24	9	
54	M	Open Humerus, Ulna, Radius Fracture		No	60	90	30	90	30	60	30	Yes	None	None	ORIF	27	67	
49	M	Elbow Fracture/Dislocation		No	75	95	25	95	20	70	50	Yes	None	None	Arthroscopic Débridement	32	6	
54	M	Supracondylar Humerus Fracture		No	65	135	30	115	70	85	15	Yes	None	None	ORIF	40	9	
19	F	Gunshot Wound, Elbow		No	45	95	18	110	50	92	42	Yes	None	None	None	41	24	
31	M	Radial Head Fracture, Elbow Dislocation		Yes	70	105	25	110	35	85	50	Yes	None	None	ORIF × 2	31	39	
43	M	Humeral Osteochondral Fracture		Yes	45	85	15	115	40	100	60	Yes	None	None	ORIF	30	14	
18	M	Radial Head Fracture		No	55	115	15	125	60	110	50	Yes	None	None	None	63	12	
33	M	Supracondylar Humerus Fracture		Yes	65	90	35	85	25	50	25	Yes	None	None	ORIF	30	17	
52	M	Radial Head Fracture		Yes	45	80	25	110	35	85	50	Yes	None	None	Radial Head Replacement	35	14	
15	M	Supracondylar Humerus Fracture		No	45	120	20	115	75	95	20	Yes	None	None	ORIF	27	15	
43	F	Dislocation		Yes	55	125	50	125	70	75	40	Yes	None	None	Closed Reduction; Arthroscopic Débridement	24	23	
27	M	Olecranon Fracture		No	58	95	20	105	37	85	48	Yes	None	None	ORIF	24	6	
43	M	Intercondylar Humerus Fracture		No	65	120	20	120	55	100	45	Yes	None	None	ORIF; Osteotomy for Malunion	32	7	
35	M	Open Intra-articular Humerus Fracture		No	40	120	35	130	80	95	15	Yes	None	None	ORIF × 2	27	10	
23	F	Radial Head Fracture		No	30	90	15	130	60	115	55	Yes	None	None	Excision of Fragment	28	12	

*ROH = removal of hardware; ICBG = iliac crest bone graft; I&D = irrigation and débridement; and LABCN = lateral antebrachial cutaneous nerve.