

TABLE E-1 Angular Displacement in Degrees with Varying Varus Loading in the Intact and Injured Specimens Before and After Application of Fixator

Varus-Valgus Angulation, Varus Stress, Separate Models by Weight						
Weight	Condition	Mean	Std dev	Min	Max	P value
Hand	Intact	-0.75	0.27	-1.09	-0.45	0.15
	1st injury	-1.14	0.95	-2.42	-0.09	
	1st injury+fixation	-0.48	1.28	-1.77	1.29	
	2nd injury	-1.17	1.10	-2.64	-0.13	
	2nd injury+fixation	0.28	1.86	-1.46	3.21	
Hand+3.5N	Intact	-2.03	1.03	-4.09	-1.37	<0.001 (1st injury, 2nd injury<others)
	1st injury	-4.87	2.49	-8.35	-1.31	
	1st injury+fixation	-1.34	1.53	-3.70	0.33	
	2nd injury	-5.20	2.73	-9.30	-1.99	
	2nd injury+fixation	-0.73	1.56	-2.82	1.37	
Hand+7N	Intact	-3.25	1.35	-5.89	-2.33	<0.001 (2nd injury<1st injury<others)
	1st injury	-9.33	7.26	-19.44	-2.27	
	1st injury+fixation	-2.19	1.86	-5.42	-0.51	
	2nd injury	-16.79	7.94	-24.82	-6.87	
	2nd injury+fixation	-1.54	1.33	-2.99	0.37	

TABLE E-2 Angular Displacement in Degrees with Varying Valgus Loading in the Intact and Injured Specimens Before and After Application of Fixator

Varus-Valgus Angulation, Valgus Stress, Separate Models by Weight						
Weight	Condition	Mean	Std dev	Min	Max	P value
Hand	Intact	2.20	1.06	1.35	4.26	0.15
	1st injury	3.50	1.41	2.41	5.73	
	1st injury+fixation	2.54	1.68	0.93	5.18	
	2nd injury	4.21	1.89	1.73	6.28	
	2nd injury+fixation	3.50	1.78	1.03	5.35	
Hand+3.5N	Intact	3.21	1.31	2.26	5.81	0.003 (1st injury>intact) (2nd injury>intact, 1st injury+fixation)
	1st injury	5.80	1.60	3.39	7.73	
	1st injury+fixation	3.95	1.49	2.36	6.17	
	2nd injury	6.80	1.34	4.98	8.50	
	2nd injury+fixation	4.92	1.79	2.66	6.77	
Hand+7N	Intact	4.04	1.58	2.84	7.12	<0.001 (1st injury>intact, 1st injury+fixation) (2nd injury>intact, all fixation)
	1st injury	8.73	3.00	4.11	12.91	
	1st injury+fixation	5.28	1.60	3.30	7.32	
	2nd injury	11.01	2.16	8.81	13.84	
	2nd injury+fixation	6.59	1.80	4.39	9.03	

TABLE E-3 Rotatory Displacement in Degrees with Varying Varus Loading in the Intact and Injured Specimens Before and After Application of Fixator

Internal-External Rotation, Varus Stress, Separate Models by Weight						
Weight	Condition	Mean	Std dev	Min	Max	P value
Hand	Intact	-2.10	1.05	-3.80	-1.10	0.89
	1st injury	-2.87	1.55	-4.70	-1.18	
	1st injury+fixation	-2.56	3.30	-6.39	1.17	
	2nd injury	-3.42	1.39	-5.08	-1.13	
	2nd injury+fixation	-2.83	3.88	-10.42	-0.06	
Hand+3.5N	Intact	-2.66	1.22	-4.42	-1.39	0.002 (1st injury, 2nd injury<others)
	1st injury	-6.81	5.97	-14.52	-1.23	
	1st injury+fixation	-2.24	3.06	-5.87	1.26	
	2nd injury	-7.73	3.64	-13.26	-2.38	
	2nd injury+fixation	-2.51	3.72	-9.79	0.32	
Hand+7N	Intact	-3.11	1.05	-4.12	-1.38	<0.001 (2nd injury<intact, all fixation)
	1st injury	-8.24	8.05	-20.32	-1.48	
	1st injury+fixation	-1.90	2.91	-5.51	1.47	
	2nd injury	-13.15	8.13	-21.88	-0.84	
	2nd injury+fixation	-2.20	3.57	-9.23	0.56	

TABLE E-4 Rotatory Displacement in Degrees with Varying Valgus Loading in the Intact and Injured Specimens Before and After Application of Fixator

Internal-External Rotation, Valgus Stress, Separate Models by Weight						
Weight	Condition	Mean	Std dev	Min	Max	P value
Hand	Intact	-0.38	0.74	-1.09	0.45	0.01 (2nd injury+fixation<intact,1st injury,2nd injury)
	1st injury	-0.16	1.95	-2.52	2.59	
	1st injury+fixation	-2.80	3.36	-6.92	1.53	
	2nd injury	0.01	2.02	-2.67	2.79	
	2nd injury+fixation	-3.48	4.32	-12.09	-0.42	
Hand+3.5N	Intact	-0.46	0.96	-1.47	0.85	0.004 (all fixation<all injuries)
	1st injury	0.49	1.82	-1.66	2.71	
	1st injury+fixation	-3.11	3.45	-7.18	1.21	
	2nd injury	0.78	2.16	-1.83	3.00	
	2nd injury+fixation	-3.78	4.46	-12.65	-0.49	
Hand+7N	Intact	-0.64	1.09	-1.88	0.85	0.003 (all fixation<all injuries)
	1st injury	1.10	2.32	-1.29	4.47	
	1st injury+fixation	-3.31	3.48	-7.42	1.08	
	2nd injury	1.86	2.48	-1.14	5.71	
	2nd injury+fixation	-3.97	4.63	-13.13	-0.55	