

TABLE E-1 Injury Pattern

Injury Pattern	Elbow Function		Shoulder Function		
	Nerve Transfer (no.[%])	Nerve Grafts (no.[%])	Dual Nerve Transfer (no.[%])	Single Nerve Transfer (no.[%])	Nerve Grafts (no.[%])
Lesion level					
C5-C6 or upper trunk	229 (77)	51 (89)	60 (98)	34 (53)	20 (71)
C5-C6-C7	70 (23)	6 (11)	1 (2)	19 (30)	8 (29)
Total	299	57	61	64*	28
Type of injury					
Root avulsion	255 (85)	12 (21)	48 (79)	51 (80)	12 (43)
Postganglionic	44 (15)	45 (79)	13 (21)	13 (20)	16 (57)
Total	299	57	61	64	28

*Eleven patients in this group had either C5-C6 or C5-C6-C7 injuries.

TABLE E-2 Comparison Between Nerve Transfers and Nerve Grafts for Elbow Flexion Strength

Treatment Group	Grade for Elbow Flexion Strength (no. of patients)			Grade for Elbow Flexion Strength (no. of patients)		
	M4 or Greater	Less than M4	Total	M3 or Greater	Less than M3	Total
Nerve transfer	247 (83%)	52 (17%)	299	286 (96%)	13 (4%)	299
Nerve graft	32 (56%)	25 (44%)	57	47 (82%)	10 (18%)	57
Total	279	77	356	333	23	356

TABLE E-3 Shoulder Abduction Strength Comparison Across the Treatment Groups

Treatment Group	Grade for Shoulder Abduction Strength (no. of patients)			Grade for Shoulder Abduction Strength (no. of patients)		
	M4 or Greater	Less than M4	Total	M3 or Greater	Less than M3	Total
Dual nerve transfer	40 (74%)	14 (26%)	54	54 (100%)	0 (0%)	54
Nerve graft	13 (46%)	15 (54%)	28	17 (61%)	11 (39%)	28
Total	53	29	82	71	11	82
Dual nerve transfer	40 (74%)	14 (26%)	54	54 (100%)	0 (0%)	54
Single nerve transfer	20 (35%)	37 (65%)	57	40 (70%)	17 (30%)	57
Total	60	51	111	94	17	111

TABLE E-4 Shoulder External Rotation Strength Comparison Across the Treatment Groups

Treatment Group	Grade of Shoulder External Rotation Strength (no. of patients)			Grade of Shoulder External Rotation Strength (no. of patients)		
	M4 or Greater	Less than M4	Total	M3 or Greater	Less than M3	Total
Dual nerve transfer	22 (56%)	17 (44%)	39	34 (87%)	5 (13%)	39
Nerve graft	9 (36%)	16 (64%)	25	12 (48%)	13 (52%)	25
Total	31	33	64	46	18	64
Dual nerve transfer	22 (56%)	17 (44%)	39	34 (87%)	5 (13%)	39
Single nerve transfer	4 (16%)	21 (84%)	25	11 (44%)	14 (56%)	25
Total	26	38	64	46	18	64