

Table E-1 Patient History and Radiographic Characteristics

Pt No.	Gender/Age	History of Trauma?	Correction Level	Fixation	Initial Correction (degrees)	Loss of Correction (degrees)	Fusion Status at 3 months
1	F/68+2	No	C7-T1	Triple Wire	-52	+2	Fused
2	M/72+7	No	C7-T1	Luque	-35	+0	Fused
3	M/42+0	Yes	C7-T1	Triple Wire	-60	+6	Fused
4	M/40+1	Yes	C7-T1	Spinous Process Wire	-23	+5	Not Fused
5	M/36+9	No	C7-T1	None	-22	+1	Fused
6	M/73+5	No	C7-T1	Luque	-37	—	Fused
7	M/63+6	No	C7-T1	Luque	-43	—	Fused
8	M/53+2	Yes	C7-T1	Luque	-26	+0	Fused
9	M/51+6	No	C7-T1	Luque	-33	+1	Fused
10	M/57+6	No	C7-T1	None	-84	+3	Fused
11	M/31+5	No	C7-T1	None	-43	+20	Not Fused
12	M/49+9	No	C7-T1	None	-30	+3	Fused
13	M/62+9	Yes	C7-T1	Sublaminar Wire	-42	+17	Fused
14	M/55+8	Yes	C7-T1	None	-78	—	—
15	M/47+3	No	C6-C7	Luque	-58	-3	Fused
16	M/51+9	Yes	C5-C6	Luque	-30	+0	Fused
17	M/53+11	No	C6-C7	Luque	-22	-2	Fused
18	M/32+7	No	C7-T1	None, Then Spinous Process Wire	-27	+5	Not Fused
19	M/49+1	Yes	C7-T1	None	-15	-1	Fused
20	M/49+4	Yes	C7-T1	None	-39	+3	Fused
21	M/43+2	No	C7-T1	Luque	-40	+0	Fused
22	M/42+6	Yes	C7-T1	Luque	-35	+0	Fused
23	M/64+10	Yes	C7-T1	Luque	-21	+0	Fused
24	M/40+11	No	C7-T1	Luque	-35	+3	Fused
25	M/50+6	Yes	C7-T1	Luque	-20	+0	Fused
26	M/53+0	Yes	C7-T1	None	-36	+2	Fused

Table E-2 Patient Duration of Follow-up, Neurologic Status and Complications

Pt. No.	Months of Follow-up	Preop Nurick	Postop Nurick	Final F/U Nurick	Complications/Notes
1	36	0	0	0	Postop arm pain + weakness, which resolved with halo adjustment; pt had postop seizure and mental status changes, which fully resolved with supportive care
2	24	0	0	0	None
3	29	1	1	1	Motor vehicle accident two months postop, C7-T1 fracture with 100% displacement and quadriparesis, resolved to Nurick 1 after repeat posterior fusion with Luque/Drummond fixation
4	150	0	0	0	Used allograft bone
5	24	0	0	0	Halo pin site problems, removed at two months postoperatively
6	6	0	0	0	Halo off at two months (pin problems). Died six months postoperatively due to respiratory failure/congestive heart failure after diagnosed with esophageal cancer
7	9	2	0	0	Halo off at two months (pin problems), Died in nursing home of cardiac arrest at nine months post-osteotomy
8	24	1	0	0	5-cm scapular decubitus from cast, healed with windowing of cast and local wound care over four months
9	28	1	0	0	None
10	32	2	1	1	Arm dysesthesias and hand intrinsic muscle weakness postop, resolved 80% over two-year period
11	96	0	0	0	None
12	89	1	0	0	None
13	68	0	0	0	Fell, C5-C6 fracture six years postoperatively with some loss of correction, healed
14	0.5	0	—	—	Failed wake-up test, immediate re-exploration showed 80% subluxation, reduced and fixed in relative kyphosis, recovered completely (except hand intrinsics) over three days, suddenly died in ICU two weeks post-osteotomy, radiographs showed resubluxation despite halo
15	51	0	0	0	None
16	45	0	0	0	Dural tear, repaired uneventfully
17	53	2	0	0	None
18	262	3	0	0	Hand dysesthesias postop, recovered over three months. Repeat bone-grafting with iliac autograft and fixed with wire at four months postop
19	43	0	0	0	Lung cancer developed, had lobectomy twenty months post-osteotomy
20	24	0	0	0	None
21	30	0	0	0	Halo off at two months (pin problems)
22	35	0	0	0	None
23	25	3	2	1	Severe neck pain, hand intrinsic weakness, arm dysesthesias and ileus postop, resolved
24	24	0	0	0	None
25	34	4	2	1	Shoulder and arm pain postop, resolved gradually
26	24	0	0	0	None