

Appendix

TABLE E-1 Demographic and Serial Radiographic Data (Preoperative Through 6 Months Postoperative) for Patients Who Underwent ASGT*

Patient No.	Lenke Classification	Age (yr)	Diagnosis	Preop.						1st Erect Postop.			6 Mo Postop.		
				Risser Stage	Sanders Stage	TRC	TC (°)	LC (°)	Ky (°)	TC (°)	LC (°)	Ky (°)	TC (°)	LC (°)	Ky (°)
1	1AN	9	EOS; Prader-Willi	0	1	Open	44	24	23	28	13	20	29	12	27
2	2A-	9	Marfan	0	NC	Open	40	18	10	2	8	1	-9	3	11
3	1BN	9	JIS	0	3	Open	41	32	31	25	22	33	14	17	31
4	2AN	12	AIS	0	4	Open	41	30	36	32	21	22	26	19	25
5	1B+	9	JIS	0	1	Open	49	36	54	25	21	36	30	21	36
6	1B-	14	AIS	0	3	Closed	47	28	13	34	25	8	31	18	11
7	1A-	11	AIS	0	3	Open	61	34	9	43	23	15	46	27	28
8	1/2A-‡	13	AIS	0	3	Open	60	26	13	31	14	12	38	11	24
9	1BN	13	AIS	0	1	Open	60	40	28	32	22	15	25	23	25
10	2AN	10	JIS	0	2	Open	45	20	32	31	19	36	33	21	35
11	1BN	10	JIS	0	2	Open	42	35	39	28	24	16	14	22	13
12	1CN	13	JIS	0	2	Open	67	57	18	44	36	14	41	40	10
13	1AN	13	AIS	0	2	Open	63	32	14	29	22	9	32	16	13
14	1AN	12	AIS	0	2	Open	44	NC§	22	28	NC§	24	19	NC§	21
15	2C+	11	JIS	0	2	Open	60	43	44	37	33	62	39	36	48
16	2BN	14	Syndromic#	0	2	Open	62	38	16	50	38	29	59	47	13
17	1CN	9	JIS	0	3	Open	58	41	30	36	35	20	34	38	21
Mean and SD							52 ± 10	33 ± 10	25 ± 13	31 ± 10	24 ± 8	22 ± 14	31 ± 13	23 ± 12	23 ± 11

*ASGT = anterior spinal growth tethering, TRC = triradiate cartilage, TC = thoracic Cobb, LC = lumbar Cobb, Ky = T2 to T12 kyphosis, EOS = early onset scoliosis, NC = not collected/data unavailable, JIS = juvenile idiopathic scoliosis, AIS = adolescent idiopathic scoliosis, and SD = standard deviation. ‡No upper-thoracic bending radiographs. §Long thoracolumbar curve, therefore no distinct lumbar curve. #Trisomy 4p and monosomy 13q with scoliosis.

TABLE E-2 Demographic and Serial Radiographic Data (1 to 2 Years Postoperative and Most Recent Follow-up Prior to PSF) for Patients Who Underwent ASGT*

Patient No.	1 Yr Postop.			18 Mo Postop.			2 Yr Postop.			Most Recent Follow-up Prior to PSF						
	TC (°)	LC (°)	Ky (°)	TC (°)	LC (°)	Ky (°)	TC (°)	LC (°)	Ky (°)	Time of Last Follow-up (yr)	Risser Stage	TRC	TC (°)	LC (°)	Ky (°)	PSF†
1	19	13	21	13	8	19	2	1	21	4‡	0‡	Open‡	-8‡	NC‡	20‡	
2	-18	5	13	2§	0§	3§	0	1	8	3.5	0	Closed	27	17	14	
3	18	21	35	9	13	35	12	7	34	3	4	Closed	28	16	38	
4	21	14	28	22	11	20	14	11	21	3‡	4‡	Closed‡	23‡	14‡	25‡	
5	23	11	23	21	20	23	12‡	13‡	33‡	2.75§	0§	Open§	10§	17§	38§	
6	28	23	8	31	21	8	32‡	28‡	11‡	2	4	Closed	32	28	11	
7	44	20	16	47	19	26	45	25	26	2	4	Closed	45	25	26	
8	35	12	15	38‡	11‡	9‡	57	21	14	2	4	Closed	57	21	14	PSFi
9	23	19	21	14	19	20	15	15	20	2.5	3	Closed	12	20	12	
10	27	21	38	28‡	16‡	37‡	33	21	39	2.5	3	Closed	29	23	43	
11	9	24	18	4	5	1	-6	12	12	2	0	Open	-6	12	12	
12	30	26	11	35	37	5	40§	43§	4§	2.5‡	4‡	Closed‡	47‡	55‡	17‡	PSFi
13	31	18	NC	31	19	10	33	18	8	2.5‡	4‡	Closed‡	42‡	24‡	NC‡	
14	-11	21	23	-8§	29§	27§	-1	43	22	2.5	0	Closed	-1	47	12	PSFi
15	35	38	58	40	40	43	42	39	39	2.5#	1#	Closed#	36#	27#	28#	
16	56	52	27	58	59	28	54	68	24	1.75	0	Closed	54	68	24	PSF
17	NC	NC	NC	29	34	15	29	32	23	2	0	Closed	29	32	23	
Mean and SD	23 ± 18	21 ± 11	24 ± 13	24 ± 17	21 ± 15	19 ± 12	24 ± 20	23 ± 17	21 ± 11	2.5 ± 0.6	2 ± 2		27 ± 20	28 ± 16	22 ± 10	

*PSF = posterior spinal fusion, ASGT = anterior spinal growth tethering, TC = thoracic Cobb, LC = lumbar Cobb, Ky = T2 to T12 kyphosis, TRC = triradiate cartilage. NC = not collected/data unavailable, and SD = standard deviation. †PSF performed during the study period; PSFi = PSF indicated at most recent follow-up. ‡Suspected or confirmed tether breakage prior to or at this time point; tether replaced in 1 (Patient 13). §Tether removal prior to or at this time point. #Lumbar tether added prior to or at this time point.