

TABLE E-1 Subgroup Comparison of Radiographic and Pulmonary Function Measurements in Patients with Idiopathic Scoliosis with or without Preoperative Impairment			
	Preoperative Impairment	No Preoperative Impairment	P Value
No. of patients	13	117	
Radiographic measure*			
Preop. major thoracic curve (deg)	65.8	49.8	0.14
Postop. major thoracic curve (deg)	39.7	25.3	0.09
Change in major thoracic curve (deg)	-26.1	-24.5	0.83
Preop. sagittal curve (deg)	38.1	35.3	0.75
Postop. sagittal curve (deg)	24.2	29.6	0.25
Change in sagittal curve (deg)	-13.9	-5.7	0.23
Pulmonary function measure			
Preop. percent-predicted FEV1*	53.7%	93.4%	<0.001†
Postop. percent-predicted FEV1*	58.3%	87.1%	<0.001†
Change in percent-predicted FEV1*	4.6%	-6.3%	<0.001†
Clinically significant decline in pulmonary function (no. of patients [%])	0	34 (29%)	<0.001†
Change in no. of patients with impairment postop. (no. of patients [%])	-5 (-38%)	+9 (7.7%)	<0.001†

*Values are presented as the mean. FEV1 = forced expiratory volume in one second. †A significant difference.

TABLE E-2 Upper-Instrumented Vertebra (UIV) in Relation to Osteotomies Performed		
UIV	No. of Patients (%)	Osteotomy Performed (No.)*
C6	1 (0.6%)	VCR (1)
C7	1 (0.6%)	VCR (1)
T1	2 (1.2%)	VCR (1)
T2	37 (22.6%)	PSO (4) VCR (7)
T3	38 (23.1%)	PSO (7) VCR (4)
T4	41 (25.0%)	PSO (12) VCR (2)
T5	7 (4.3%)	PSO (2)
T6	2 (1.2%)	PSO (1)
T7	2 (1.2%)	None
T8	2 (1.2%)	PSO (1)
T9	3 (1.8%)	VCR (1)
T10	10 (6.1%)	PSO alone (1) VCR alone (1)
T11	11 (6.7%)	None
T12	6 (3.7%)	PSO alone (1)
L4	1 (0.6%)	None

*PSO = pedicle subtraction osteotomy, and VCR = vertebral column resection.