

TABLE E-1 Modified Stauffer-Coventry Score

Parameter	Grade 0	Grade 1	Grade 2	Grade 3	Grade 4	Total
Low-back pain	Permanent	Frequent	Moderate	None		3
Radicular pain	Permanent	Frequent	Effort	None		3
Neurologic deficit	Major		Moderate		None	4
Medication	Major	Moderate	None			2
Daily living activities	Impossible		Normal			2
Postoperative work status	No work	Frequently stopped	Change	Same work >6 months; change <3 months	Normal	4
Psychiatric status	Preoperative	Secondary to pathology	None			2
Total						20

TABLE E-2 Scoring of Low-Back Pain, Lower-Limb Pain, and Disability

	0 Points	1 Point	2 Points	3 Points
Low-back pain	None	Mild	Moderate	Severe
Lower-limb pain	None	Mild	Moderate	Severe
Disability	None	Slight	Substantial	Severe

TABLE E-3 Subgroup Analysis by Age, Gender, Prior Lumbar Surgery, and Multilevel Disc Implantation

	Age <45	Age ≥45	p	Male	Female	p	No prior surgery	Prior surgery	p	One-level implantation	Multilevel implantation	p
N	29	26		30	25		27	28		35	20	
Mean	39.6	53.0										
Preoperative back pain	2.69 ± 0.60	2.77 ± 0.51	0.73	2.63 ± 0.61	2.84 ± 0.47	0.25	2.81 ± 0.48	2.64 ± 0.62	0.37	2.71 ± 0.58	2.76 ± 0.54	0.78
Postoperative back pain	1.52 ± 0.83	1.15 ± 0.93	0.14	1.33 ± 0.88	1.36 ± 0.91	0.99	1.15 ± 0.86	1.54 ± 0.88	0.15	1.41 ± 0.99	1.24 ± 0.70	0.56
Preoperative lower-limb pain	2.41 ± 0.98	2.42 ± 1.1	0.73	2.40 ± 1.1	2.44 ± 1.0	0.97	2.22 ± 1.25	2.61 ± 0.74	0.54	2.35 ± 1.15	2.52 ± 0.81	0.99
Postoperative lower-limb pain	0.83 ± 0.89	0.50 ± 0.91	0.13	0.57 ± 0.90	0.80 ± 0.91	0.30	0.56 ± 0.85	0.79 ± 0.96	0.42	0.65 ± 0.92	0.71 ± 0.90	0.71
Preoperative disability	1.93 ± 0.70	2.12 ± 0.82	0.37	1.73 ± 0.74	2.36 ± 0.64	0.005*	2.04 ± 0.76	2.00 ± 0.77	0.94	1.88 ± 0.77	2.24 ± 0.70	0.097
Postoperative disability	0.93 ± 0.88	0.62 ± 0.80	0.18	0.73 ± 0.83	0.84 ± 0.90	0.71	0.67 ± 0.83	0.89 ± 0.88	0.33	0.88 ± 0.91	0.62 ± 0.74	0.36
Preoperative modified Stauffer-Coventry score	6.93 ± 3.6	7.15 ± 3.2	0.99	7.50 ± 3.5	6.48 ± 3.1	0.29	7.37 ± 3.2	6.71 ± 3.5	0.47	7.18 ± 3.3	6.81 ± 3.5	0.83
Postoperative modified Stauffer-Coventry score	15.1 ± 2.9	17.2 ± 2.2	0.006*	16.3 ± 2.5	15.8 ± 3.1	0.55	16.9 ± 2.2	15.3 ± 3.0	0.042*	15.8 ± 3.1	16.6 ± 1.9	0.53
Relative Improvement	0.61 ± 0.24	0.78 ± 0.17	0.005*	0.69 ± 0.23	0.69 ± 0.22	0.99	0.75 ± 0.18	0.62 ± 0.25	0.045*	0.66 ± 0.25	0.73 ± 0.17	0.53

*Significant.