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APPENDICES

Appendix A: Evidence Quality Scoring and DSIC Points Conversion System

Quality of Evidence Rating	Score
Very low	Excluded
Low	1 point
Moderate	2 points
High	3 points

* Quality of Evidence for variables associated with instability were previously scored by the Canadian Spine Outcomes Research Network, according to systematically conducted review and appraisal of the scientific literature (Simmonds et al. *J Neurosurg Spine*, **2015**, 23(2):178-89). Here we *a priori* assign point values based on quality of evidence.

Appendix B: Patient Demographic Characteristics

Variable		n (%)
Age (mean ± SD)		65.8 ± 9.0
BMI (kg/m²)		29.3 ± 6.0
Gender	<i>Male</i>	126 (41%)
	<i>Female</i>	183 (59%)
Marital Status	<i>Married</i>	210 (69%)
	<i>Not Married</i>	93 (31%)
Living Arrangement	<i>Living w/ Someone</i>	235 (77%)
	<i>Living alone</i>	71 (23%)
Education	<i>≤ HS</i>	140 (46%)
	<i>> HS</i>	165 (54%)
Smoking Status	<i>Smoker</i>	48 (16%)
	<i>Non-smoker</i>	256 (84%)
Employment Status	<i>Unemployed</i>	39 (13%)
	<i>Employed</i>	80 (26%)
	<i>Retired</i>	163 (53%)
	<i>Other</i>	23 (8%)
Static Translation (Standing)		7.4 ± 3.8 mm Range: 1.0 – 53.0 mm
Static Translation (Supine)		6.1 ± 4.1 mm Range: 0 – 40.0 mm
Dynamic Translation		2.0 ± 3.4 mm
Mean Disc Height		10.0 ± 14.7 mm
Mean Pre-operative Visual Analog Score for Low Back Pain		7.0 ± 2.1 mm

Appendix C: O-DSIC Scores for the Study Cohort

<i>Total Score</i>							
	0	1	2	3	4	5	Total
n	4	44	128	106	24	3	309
%	1.3	14.2	41.4	34.3	7.8	1.0	100

Appendix D: Degree of Difference Between S-DSIC and O-DSIC Types Per Patient

Degree of Difference Between S-DSIC and O-DSIC Types	Surgeons under-estimate instability*		Similar estimate of instability*	Surgeons over estimate instability*	
	-2	-1	0	1	2
n	3	31	145	113	17
%	1.0	10.0	46.9	36.6	5.5

Legend:

-2: O-DSIC Type III, S-DSIC Type I

-1: O-DSIC Type III and S-DSIC Type II; or O-DSIC Type II and S-DSIC Type I

0: Both O-DSIC and S-DSIC Type are the same.

+1: O-DSIC Type I and S-DSIC Type II; or O-DSIC Type II and S-Type III

+2: O-DSIC Type I and S-DSIC Type III

Appendix E: Patient Characteristics Stratified by O-DSIC and S-DSIC Type

Variable		O-DSIC Type				S-DSIC Type			
		I	II	III	P-Value	I	II	III	P-Value
Age (mean ± SD)		66.6±9.2	66.0±7.5	60.0±11.3	0.002	68.0±8.2	65.6±9.1	63.0±9.4	0.005
BMI		28.1±5.1	30.8±6.7	31.4±6.8	<0.001	29.1±4.4	28.9±5.7	31.0±8.5	0.069
Gender	Male	72	44	10	0.91	40	72	14	0.065
	Female	104	62	17		52	92	39	
Marital Status	Married	115	77	18	0.65	65	109	36	0.86
	Not Married	55	29	9		26	51	16	
Living Arrangement	Living w/ Someone	130	86	19	0.37	72	122	41	0.90
	Living alone	43	20	8		20	39	12	
Education	≤HS	76	51	13	0.79	41	76	23	0.83
	>HS	96	55	14		51	84	30	
Smoking Status	Smoker	30	13	5	0.46	14	22	12	0.30
	Non-smoker	142	93	21		77	138	41	
Employment Status	Not working	22	11	6	0.30	9	22	8	0.75
	Working	43	27	10		22	47	11	
	Retiree	96	59	8		52	82	29	
	Other	12	9	2		8	10	5	