

Supplementary Table 4. Patient-reported Outcomes at 3-month and 1-year follow-up for procedures performed at L4–5 in patients with diagnosis of spinal stenosis or spondylolisthesis

	Uniplanar (n = 41)	Biplanar (n = 52)	p-value [†]	Regression analysis [‡]
3-Month follow-up				
ODI				$\beta = 5.06$
Preoperative	57.6 ± 8.49	53.6 ± 13.3	0.114	(-8.11 to 18.2)
Postoperative	33.2 ± 20.7	27.1 ± 13.1	0.277	p = 0.440
Δ Value	-14.4 ± 12.9	-16.5 ± 14.4	0.194	
p-value [§]	< 0.001*	< 0.001*		
VAS back				$\beta = -0.032$
Preoperative	7.08 ± 1.96	6.84 ± 1.19	0.169	(-1.63 to 1.57)
Postoperative	3.67 ± 2.19	3.29 ± 1.63	0.452	p = 0.667
Δ Value	-3.42 ± 2.19	-3.85 ± 2.27	0.580	
p-value [§]	< 0.001*	< 0.001*		
VAS leg				$\beta = -0.385$
Preoperative	6.57 ± 2.05	6.07 ± 2.83	0.339	(-3.11 to 2.34)
Postoperative	2.92 ± 2.64	3.08 ± 3.89	0.465	p = 0.776
Δ Value	-3.67 ± 2.92	-3.74 ± 3.75	0.952	
p-value [§]	< 0.001*	< 0.001*		
1-Year follow-up				
ODI				$\beta = 2.38$
Preoperative	57.6 ± 8.49	53.6 ± 13.3	0.114	(-11.2 to 15.8)
Postoperative	30.3 ± 19.1	26.2 ± 13.8	0.092	p = 0.720
Δ Value	-27.3 ± 20.3	-22.9 ± 16.8	0.486	
p-value [§]	< 0.001*	< 0.001*		
VAS back				$\beta = -0.528$
Preoperative	7.08 ± 1.96	6.84 ± 1.19	0.169	(-2.42 to 1.36)
Postoperative	3.08 ± 2.71	2.91 ± 1.72	0.359	p = 0.573
Δ Value	-3.21 ± 3.02	-4.04 ± 2.26	0.241	
p-value [§]	< 0.001*	< 0.001*		
VAS leg				$\beta = -0.215$
Preoperative	6.57 ± 2.05	6.07 ± 2.83	0.339	(-2.71 to 2.18)
Postoperative	2.42 ± 3.14	2.16 ± 2.42	0.626	p = 0.856
Δ Value	-4.33 ± 2.39	-4.15 ± 3.39	0.865	
p-value [§]	< 0.001*	< 0.001*		

Values are presented as mean ± standard deviation.

ODI, Oswestry Disability Index; VAS, visual analogue scale; BMI, body mass index.

*p < 0.05, statistically significant differences. [†]Independent-samples t-test or Mann-Whitney U-test comparing uniplanar and biplanar cages.

[‡]Multiple linear regression controlling for age, sex, BMI, and preoperative diagnosis, comparing delta values between the uniplanar and biplanar cohorts, with uniplanar as a reference. [§]Paired-sample t-test or Wilcoxon rank-sum test comparing preoperative and postoperative values.