

**Supplementary 5.** Demographics and clinical data among different IOM groups

Variable	Improvement	No change	Deterioration
No. of patients	11	27	10
Age range (yr)	59.4±10.4	55.7±9.0	56.9±10.0
Body mass index (kg/m <sup>2</sup> )	25.2±3.2	25.1±3.4	24.7±4.3
Duration (mo)	12.4±17.7	12.9±11.9	16.9±13.5
<b>Sex</b>			
Male	4	16	5
Female	7	11	5
<b>Main distribution of TOLF</b>			
Upper thoracic spine (T1–T5)	1/11 (9.1)	6/27 (22.2)	0/10 (0)
Middle thoracic spine (T5–T9)	1/11 (9.1)	2/27 (7.4)	1/10 (10.0)
Lower thoracic spine (T9–T12)	9/11 (81.8)	19/27 (70.4)	9/10 (90.0)
<b>Chief complaints</b>			
Sensory abnormalities in lower limbs	8/11 (72.7)	24/27 (88.9)	10/10 (100.0)
Girdle-band sensation in trunk	1/11(9.1)	4/27 (14.8)	4/10 (40.0)
Lower limbs weakness	5/11 (45.5)	14/27 (51.9)	7/10 (70.0)
gait disturbance	2/11 (18.2)	7/27 (25.9)	4/10 (40.0)
Sphincter dysfunction	3/11 (27.3)	11/27 (40.7)	6/10 (60.0)
Lower extremity pain	3/11 (27.3)	9/27 (30.0)	3/10 (30.0)
Back pain	0/11 (0)	5/27 (18.5)	2/10 (20.0)
<b>Surgical information</b>			
Number of surgical segments	2.5±0.9 <sup>a)</sup>	2.9±1.0 <sup>b)</sup>	4.1±2.0 <sup>a),b)</sup>
Operative time (min)	186.8±52.5 <sup>a)</sup>	199.4±46.9	236.7±71.7 <sup>a)</sup>
Intraoperative bleeding (mL)	674.1±226.9 <sup>a)</sup>	730.9±216.4 <sup>b)</sup>	914.0±279.2 <sup>a),b)</sup>
<b>Operative complication</b>			
Intraoperative dural tear	0/11 (0) <sup>a)</sup>	3/27 (11.1) <sup>b)</sup>	6/10 (60.0) <sup>a),b)</sup>
Postoperative CFL	0/11 (0) <sup>a)</sup>	1/27 (3.7) <sup>b)</sup>	4/10 (40.0) <sup>a),b)</sup>
Epidural hematoma	0/11 (0)	0/27 (0)	0/10 (0)
Transient neurological deterioration	0/11 (0) <sup>a)</sup>	0/27 (0) <sup>b)</sup>	5/10 (40.0) <sup>a),b)</sup>
Surgical site infection	0/11 (0)	1/27 (3.7)	0/10 (0)

Values are presented as number, mean±standard deviation, or number/total patients (%).

IOM, intraoperative neurophysiologic monitoring; TOLF, thoracic ossification of ligamentum flavum; CFL, cerebrospinal fluid leakage.

<sup>a)</sup>Statistical difference between the IOM improvement and IOM deterioration groups ( $p<0.05$ ). <sup>b)</sup>Statistical difference between the IOM deterioration and no change groups ( $p<0.05$ ).