

**Supplementary Table 1.** OPLL size and MFD according to OPLL's K-line invasion

Variable	K-line (+) (N=80)	K-line (-) (N=20)	p-value
Age (yr)	55.8±9.5	56.9±9.5	0.65
Sex			0.60
Male	54 (67.5)	15 (75.0)	
Female	26 (32.5)	5 (25.0)	
OPLL size			
OPLL diameter occupying ratio	0.29±0.12	0.38±0.11	0.002
OPLL area occupying ratio	0.16±0.08	0.23±0.10	0.001
Involved vertebral level	4.68±1.18	5.35±1.04	0.021
ΔCobb	28.8±10.8	22.1±13.3	0.021
Multifidus fatty degeneration			
Goutallier grade	1.92±0.38	2.19±0.31	0.005

Values are presented as mean ± standard deviation or number (%).

OPLL, ossification of posterior longitudinal ligament; MFD, multifidus fatty degeneration; OPLL, ossification of posterior longitudinal ligament; ΔCobb, C2–7 range of motion between full flexion-extension between; K-line, kyphosis line.

Goutallier classification system: grade 0, normal muscle; grade 1, some fatty streaks; grade 2, less than 50% fatty muscle atrophy; grade 3, 50% fatty muscle atrophy; grade 4, greater than 50% fatty muscle atrophy.