Table 1 The index of the collapsed vertebra, local kyphosis, and the adjacent structures

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | first visit | | |  | 1 years later | | |  |  | 2 years later | | |  |  | 3years later | | |  |  | 4 years later | | |  |  | 5 years later | | |  |  | 6 years later | | |  |  | 7 years later | | | | |  | |
| AA/A2(%) |  | 44.9 | ± | 27.8 |  | 35.0 | ± | 30.9 |  |  | 39.9 | ± | 22.7 |  |  | 45.5 | ± | 22.1 |  |  | 57.3 | ± | 26.2 |  |  | 62.3 | ± | 23.5 |  |  | 65.9 | ± | 24.7 |  |  | 69.8 | ± | | 23.4 | | \* | |
| CA/C2(%) |  | 45.9 | ± | 27.0 |  | 26.6 | ± | 26.8 | \* |  | 33.1 | ± | 21.1 |  |  | 36.6 | ± | 25.4 |  |  | 50.9 | ± | 28.4 |  |  | 56.8 | ± | 29.2 |  |  | 55.8 | ± | 26.4 |  |  | 57.2 | ± | | 22.5 | |  | |
| PA/P2(%) |  | 75.3 | ± | 20.4 |  | 68.0 | ± | 20.0 |  |  | 68.8 | ± | 34.7 |  |  | 67.5 | ± | 31.6 |  |  | 78.0 | ± | 30.6 |  |  | 76.5 | ± | 24.0 |  |  | 78.8 | ± | 20.0 |  |  | 83.6 | ± | | 19.3 | |  | |
| A1/A2(%) |  | 97.2 | ± | 10.7 |  | 101.0 | ± | 9.1 |  |  | 99.9 | ± | 9.5 |  |  | 94.7 | ± | 7.1 |  |  | 98.6 | ± | 12.9 |  |  | 104.3 | ± | 20.4 |  |  | 102.1 | ± | 11.2 |  |  | 98.0 | ± | | 13 | |  | |
| C1/C2(%) |  | 105.7 | ± | 7.0 |  | 114.8 | ± | 11.2 | \* |  | 117.4 | ± | 9.4 | \* |  | 112.5 | ± | 6.9 |  |  | 110.1 | ± | 5.3 |  |  | 111.0 | ± | 15.4 |  |  | 107.3 | ± | 7.3 |  |  | 97.3 | ± | | 14 | |  | |
| P1/P2(%) |  | 101.8 | ± | 11.1 |  | 97.3 | ± | 9.9 |  |  | 98.0 | ± | 6.3 |  |  | 98.9 | ± | 6.5 |  |  | 100.0 | ± | 7.8 |  |  | 102.4 | ± | 16.6 |  |  | 102.3 | ± | 9.7 |  |  | 100.4 | ± | | 11.3 | |  | |
| DD(%) |  | 118.9 | ± | 22.2 |  | 130.5 | ± | 21.6 | \* |  | 131.1 | ± | 25.5 | \* |  | 118.4 | ± | 15.5 |  |  | 119.1 | ± | 16.5 |  |  | 117.4 | ± | 27.3 |  |  | 116.8 | ± | 20.4 |  |  | 107.9 | ± | | 20.2 | | \* | |
| LK(degree) | | 8.3 | ± | 12.5 |  | 7.8 | ± | 16.2 |  |  | 2.7 | ± | 16.3 |  |  | -1.4 | ± | 12.4 | \* |  | -3.9 | ± | 12.5 | \* |  | -4.5 | ± | 13.7 | \* |  | -5.8 | ± | 14.2 | \* |  | -4.6 | ± | | 12.2 | | \* | |
| average value ± one standard deviation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| \*; Probability values of < 0.05 were considered statistically significant between first visit and relevant timing. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| AA/A2; The ratio of the height of the anterior wall of the affected vertebra to that of the two above vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| CA/C2; The ratio of the height of the center of the affected vertebra to that of the two above vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| PA/P2; The ratio of the height of the posterior wall of the affected vertebra to that of two above vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| A1/A2; The ratio of the height of the anterior wall of the one above vertebra to that of the two above vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| C1/C2; The ratio of the height of the center of the one above vertebra to that of the two above vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| P1/P2; The ratio of the height of the posterior wall of the one above vertebra to that of the two above vertebra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| DD; The ratio of the adjacent disc (D1) to the one above disc (D2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |
| LKA; Local kyphosis angle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |  | |  | |