Table 1 Demographic data of the MI LLIF and TLIF group

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| Characteristics | MI LLIF group (n 70) | TLIF group (n70) | p value |
| Age at surgery (years) | 62.5571428571429±6.42602434012475 | 62.8857142857143±5.37450464759678 | 0.7433  Two Sample t-test |
| Sex (male/female) | 36/34 | 40/30 | 0.4974  Pearson's Chi-squared test |
| BMI (kg/m2 ) | |  | | --- | | 25.1285714285714±1.84753206770568 | | 25.3285714285714±1.37441875537038 | 0.4258  Wilcoxon rank sum test |
| Preoperative Pfirmann classification (I/II/III/IV/V) | 0/0/51 /16 / 3 | 0/0/ 52/ 18 / 0 | Fisher's Exact Test  0.295 |
| Postoperative Pfirmann crandial classification (I/II/III/IV/V) | 0 0 45 18 7 | 0 0 49 21 0 | 0.02527  Fisher's Exact Test |
| Postoperative Pfirmann caudal classification (I/II/III/IV/V) | 0 0 51 15 4 | 0 0 52 18 0 | Fisher's Exact  0.1362 |
| Preoperative segmented lordosis (degrees) | |  | | --- | | 6.61428571428571±2.1162097451104 | | 7.29142857142857±1.96393149450633 | Wilcoxon rank sum test  0.009594 |
| Postoperative segmented lordosis (degrees) | 9.26142857142857±1.75765760273359 | |  | | --- | | 8.44285714285714±1.70230631523538 | | Wilcoxon rank sum test  0.009403 |
| Preoperative PI- LL (degrees) | 45.6314285714286±3.52006846347875 | 46.3985714285714±3.53325784129674 | Wilcoxon rank sum test  0.09499 |
| Postoperative PI- LL (degrees) | |  | | --- | | 47.3342857142857±3.35303823784201 | | 47.2514285714286±3.5974122284221 | Wilcoxon rank sum test  0.7704 |
| Preoperative segmented lordosis（Cranial） | |  | | --- | | 7.57571428571429±1.43733204077733 | | |  | | --- | | 7.61714285714286±1.2220167968403 | | Two Sample t-test  0.8545 |
| Postoperative segmented lordosis（Cranial） | 8.14714285714286±1.49411613429958 | 7.84571428571429±1.24652394528536 | 自然对数变换log()  Two Sample t-test  0.2411 |
| ∆H | 4.15571428571429±1.10093974539089 | |  | | --- | | 0.925714285714286±0.287258765477549 | | Wilcoxon rank sum test  1.627384e-24 |