**APPENDIX**

**Appendix A.** Operative segment disc height, cage size, and sagittal cervical alignment preoperatively and at 6-weeks follow-up for single- and two-level PLATE and CAGE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **All Patients** | **PLATE** | **CAGE** | **p** |
| **Operative Segment (mm)** |  | |  |  |
| Pre-Op Disc Height | 3.46 ± 1.20 | 3.52 ± 1.12 | 3.39 ± 1.30 | .690 |
| Interbody Cage Size | 6.76 (range 5-8) | 6.77 (range: 5-8) | 6.63 (range 5-8) | .512 |
| 6 Weeks Disc Height | 6.70 ± 0.87 | 6.85 ± 1.62 | 6.67 ± 1.84 | .679 |
| **Sagittal Cervical Alignment** |  |  |  |  |
| FSL |  |  |  |  |
| Pre-Op | 4.75 ± 2.25 | 4.50 ± 2.20 | 4.97 ± 2.31 | .418 |
| 6 Weeks | 5.36 ± 2.04 | 5.45 ± 2.26 | 5.27 ± 1.82 | .800 |
| Δ | 1.18 ± 2.82 | 1.63 ± 3.03 | 0.78 ± 2.59 | .310 |
| Cervical Lordosis |  | |  |  |
| Pre-Op | 13.08 ± 8.95 | 14.67 ± 9.94 | 11.66 ± 7.94 | .421 |
| 6 Weeks | 15.54 ± 12.46 | 16.87 ± 13.28 | 14.22 ± 11.78 | .552 |
| Δ | 1.10 ± 8.70 | 1.19 ± 5.96 | 1.01 ± 10.74 | .756 |
| C2-C7 SVA (mm) |  |  |  |  |
| Pre-Op | 18.90 ± 4.05 | 18.09 ± 4.82 | 19.75 ± 2.94 | .087 |
| 6 Weeks | 18.41 ± 2.37 | 18.30 ± 2.21 | 18.51 ± 2.56 | .748 |
| Δ | -0.09 ± 3.02 | 0.47 ± 3.66 | -0.67 ± 2.12 | .428 |
| T1 Slope |  |  |  |  |
| Pre-Op | 33.76 ± 8.61 | 35.09 ± 10.19 | 32.64 ± 7.15 | .294 |
| 6 Weeks | 34.92 ± 10.14 | 36.22 ± 8.10 | 33.85 ± 11.70 | .393 |
| Δ | 0.14 ± 5.03 | -0.66 ± 2.71 | 0.67 ± 6.15 | .618 |
| **Boldface** denotes statistical significance with α = .05  FSL, Fusion Segment Lordosis; SVA, Sagittal Vertical Axis, Δ, Change from Pre-Op to 6-Weeks; | | | | |

**Appendix B.** Operative segment disc height, cage size, and sagittal cervical alignment preoperatively and at 6-weeks follow-up for single-level PLATE and CAGE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **All Patients** | **PLATE** | **CAGE** | **p** |
| **Operative Segment (mm)** |  | |  |  |
| Pre-Op Disc Height | 3.51 ± 1.44 | 3.50 ± 0.87 | 3.53 ± 1.90 | .963 |
| Interbody Cage Size | 6.96 (range 6-8) | 7.00 (range: 6-8) | 6.92 (range: 6-8) | .807 |
| 6 Weeks Disc Height | 7.03 ± 1.90 | 7.32 ± 1.75 | 6.75 ± 2.09 | .475 |
| **Sagittal Cervical Alignment** |  |  |  |  |
| FSL |  |  |  |  |
| Pre-Op | 4.35 ± 2.21 | 4.72 ± 2.18 | 4.06 ± 2.30 | .450 |
| 6 Weeks | 5.25 ± 1.79 | 5.13 ± 1.93 | 5.36 ± 1.73 | .902 |
| Δ | 1.04 ± 1.84 | 0.91 ± 2.26 | 1.14 ± 1.62 | .379 |
| Cervical Lordosis |  | |  |  |
| Pre-Op | 12.21 ± 7.71 | 14.54 ± 8.24 | 10.52 ± 7.22 | .342 |
| 6 Weeks | 14.74 ± 13.31 | 17.74 ± 14.73 | 12.28 ± 12.18 | .382 |
| Δ | 0.06 ± 6.83 | 0.20 ± 6.81 | -0.04 ± 7.21 | .922 |
| C2-C7 SVA (mm) |  |  |  |  |
| Pre-Op | 18.58 ± 3.39 | 16.93 ± 2.57 | 20.24 ± 3.41 | **.034** |
| 6 Weeks | 18.17 ± 2.62 | 17.69 ± 1.82 | 18.53 ± 3.12 | .522 |
| Δ | -0.40 ± 2.47 | 0.41 ± 2.87 | -1.14 ± 1.91 | .327 |
| T1 Slope |  |  |  |  |
| Pre-Op | 31.94 ± 7.92 | 31.28 ± 8.64 | 32.30 ± 7.92 | .687 |
| 6 Weeks | 34.25 ± 11.21 | 33.60 ± 9.75 | 34.82 ± 12.94 | .962 |
| Δ | 0.46 ± 4.27 | 0.96 ± 1.96 | 0.15 ± 5.36 | .770 |
| **Boldface** denotes statistical significance with α = .05  FSL, Fusion Segment Lordosis; SVA, Sagittal Vertical Axis, Δ, Change from Pre-Op to 6-Weeks; | | | | |

**Appendix C.** Operative segment disc height, cage size, and sagittal cervical alignment preoperatively and at 6-weeks follow-up for two-level PLATE and CAGE.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **All Patients** | **PLATE** | **CAGE** | **p** |
| **Cephalad Operative Segment (mm)** |  | | |  |
| Pre-Op Disc Height | 3.61 ± 1.01 | 3.52 ± 1.29 | 3.70 ± 0.62 | 0.705 |
| Interbody Cage Size | 6.50 (range: 5-8) | 6.64 (range: 5-8) | 6.35 (range: 5-8) | 0.491 |
| 6 Weeks Disc Height | 6.80 ± 1.54 | 6.95 ± 1.46 | 6.65 ± 1.69 | 0.671 |
| **Caudal Operative Segment (mm)** |  | | |  |
| Pre-Op Disc Height | 3.25 ± 1.12 | 3.54 ± 1.26 | 2.93 ± 0.92 | 0.249 |
| Interbody Cage Size | 6.60 (range: 5-8) | 6.20 (range: 5-8) | 6.61 (range: 6-8) | 0.845 |
| 6 Weeks Disc Height | 6.40 ± 1.69 | 6.19 ± 1.55 | 6.61 ± 1.88 | 0.599 |
| **Sagittal Cervical Alignment** |  | |  |  |
| Cephalad FSL |  | |  |  |
| Pre-Op | 5.12 ± 2.20 | 4.31 ± 2.12 | 5.94 ± 2.07 | 0.121 |
| 6 Weeks | 5.22 ± 2.36 | 5.59 ± 2.88 | 4.76 ± 1.58 | 0.657 |
| Δ | 0.94 ± 2.99 | 2.24 ± 3.40 | -0.73 ± 1.07 | 0.057 |
| Caudal FSL |  |  |  |  |
| Pre-Op | 5.36 ± 2.27 | 4.00 ± 2.08 | 6.71 ± 1.60 | **0.042** |
| 6 Weeks | 5.00 ± 1.92 | 4.88 ± 2.17 | 5.17 ± 1.72 | 0.693 |
| Δ | 0.18 ± 3.33 | 1.04 ± 3.00 | -0.67 ± 3.69 | 0.337 |
| Cervical Lordosis |  | |  |  |
| Pre-Op | 13.95 ± 10.18 | 14.77 ± 11.56 | 13.04 ± 8.99 | 0.935 |
| 6 Weeks | 16.34 ± 11.85 | 16.15 ± 12.66 | 16.58 ± 11.54 | 0.909 |
| Δ | 2.14 ± 10.35 | 1.97 ± 5.52 | 2.33 ± 14.49 | 0.923 |
| C2-C7 SVA (mm) |  |  |  |  |
| Pre-Op | 19.23 ± 4.72 | 19.25 ± 6.28 | 19.21 ± 2.39 | 0.806 |
| 6 Weeks | 18.70 ± 2.07 | 18.90 ± 2.51 | 18.48 ± 1.58 | 0.63 |
| Δ | 0.29 ± 3.62 | 0.52 ± 4.50 | -0.01 ± 2.38 | 0.958 |
| T1 Slope |  |  |  |  |
| Pre-Op | 35.69 ± 9.13 | 37.63 ± 10.81 | 33.19 ± 6.30 | 0.101 |
| 6 Weeks | 35.74 ± 9.02 | 39.72 ± 3.40 | 32.75 ± 10.91 | 0.196 |
| Δ | -0.22 ± 5.92 | -2.28 ± 2.48 | 1.26 ± 7.35 | 0.465 |
| **Boldface** denotes statistical significance with α = .05  FSL, Fusion Segment Lordosis; SVA, Sagittal Vertical Axis, Δ, Change from Pre-Op to 6-Weeks; | | | | |