**Table 2.** The Mean Values and Standard Error of the Means of the Variables at Each Time Interval for Three Surgery Groups

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **GROUPS** | | | | | | | | |
| **MA** | | | **MS** | | | **BM** | | |
| **T1** | **T2** | **T3** | **T1** | **T2** | **T3** | **T1** | **T2** | **T3** |
| **X ± Sx** | **X ± Sx** | **X ± Sx** | **X ± Sx** | **X ± Sx** | **X ± Sx** | **X ± Sx** | **X ± Sx** | **X ± Sx** |
| **Skeletal** | | | | | | | | | |
| **SNA** (o) | 77.35 ± 1.57 | 77.06 ± 1.60 | 81.97 ± 1.57 | 78.48 ± 1.89 | 78.14 ± 1.64 | 78.44 ± 1.72 | 78.83 ± 0.60 | 78.39 ± 0.60 | 81.73 ± 0.63 |
| **SNB** (o) | 68.44 ± 3.96 | 66.78 ± 4.28 | 67.16 ± 4.39 | 66.03 ± 4.26 | 65.28 ± 4.21 | 60.59 ± 3.76 | 70.13 ± 1.32 | 69.31 ± 1.46 | 65.93 ± 1.16 |
| **ANB** (o) | -4.50 ± 0.66 | -3.94 ± 0.57 | 0.87 ± 0.65 | -2.23 ± 1.22 | -2.06 ± 1.24 | 0.71 ± 0.89 | -4.58 ± 0.52 | -4.46 ± 0.51 | 0.58 ± 0.38 |
| **GoGnSN** (o) | 30.07 ± 2.47 | 30.83 ± 2.56 | 31.04 ± 2.50 | 38.19 ± 2.77 | 38.90 ± 2.75 | 38.30 ± 3.42 | 37.23 ± 0.89 | 37.62 ± 0.82 | 35.32 ± 0.84 |
| **A-HR** (mm) | 50.01 ± 1.04 | 50.36 ± 1.12 | 51.52 ± 1.27 | 52.71 ± 1.09 | 53.22 ± 1.12 | 53.13 ± 1.18 | 55.64 ± 0.69 | 56.15 ± 0.69 | 54.95 ± 0.69 |
| **A-VR** (mm) | 64.63 ± 2.65 | 64.15 ± 2.72 | 69.38 ± 2.68 | 65.45 ± 2.53 | 65.29 ± 2.37 | 65.65 ± 2.40 | 64.77 ± 0.91 | 64.46 ± 0.92 | 68.09 ± 0.90 |
| **B-HR** (mm) | 89.69 ± 1.92 | 90.25 ± 1.65 | 90.01 ± 1.93 | 98.50 ± 1.65 | 99.20 ± 1.60 | 98.02 ± 1.04 | 103.33 ± 1.40 | 103.30 ± 1.39 | 99.81 ± 1.31 |
| **B-VR** (mm) | 68.44 ± 3.96 | 66.78 ± 4.28 | 67.16 ± 4.39 | 66.03 ± 4.26 | 65.28 ± 4.21 | 60.59 ± 3.76 | 70.13 ± 1.32 | 69.31 ± 1.46 | 65.93 ± 1.16 |
| **Soft Tissue** | | | | | | | | | |
| **Pr-HR** (mm) | 41.45±1.34 | 42.34±1.47 | 41.26±1.41 | 44.43±0.61 | 44.78±0.67 | 45.02±0.34 | 46.23±0.86 | 46.2±0.86 | 45.14±0.93 |
| **Pr-VR** (mm) | 100.67±2.79 | 100.41±2.88 | 101.29±2.70 | 101.94±3 | 102.03±2.90 | 102.35±2.95 | 101.12±1.17 | 101.16±1.13 | 102.51±1.15 |
| **Sn-HR** (mm) | 51.61±1.14 | 52.09±1.12 | 51.83±1.22 | 54.15±0.92 | 54.78±0.99 | 54.72±0.88 | 56.01±0.82 | 56.36±0.79 | 55.78±0.81 |
| **Sn-VR** (mm) | 83.80±2.99 | 83.17±3.16 | 85.67±3.12 | 85.88±3.26 | 85.87±3.13 | 85.68±3.11 | 83.51±1.09 | 83.26±1.07 | 85.30±1.02 |
| **ULA-HR** (mm) | 64.05±1.06 | 64.62±1.20 | 65.04±1.21 | 71.13±0.71 | 71.78±0.90 | 71.59±0.62 | 71.27±0.01 | 71.3±1.05 | 71.58±0.98 |
| **ULA-VR** (mm) | 83.77±3.58 | 83.07±3.67 | 86.83±3.86 | 84.94±3.56 | 84.25±3.38 | 84.38±3.36 | 84.87±1.24 | 85.06±1.29 | 87.79±1.16 |
| **LLA-HR** (mm) | 77.66±1.23 | 79.12±1.17 | 80.40±1.37 | 85.65±1.74 | 86.73±1.62 | 86.62±0.98 | 87.01±1.37 | 88±1.47 | 87.64±1.26 |
| **LLA-VR** (mm) | 85.54±4.18 | 85.37±4.25 | 85.35±4.59 | 86.24±3.78 | 85.95±3.79 | 81.65±3.66 | 87.88±1.40 | 88.74±1.58 | 85.85±1.26 |
| **B^-HR** (mm) | 87.10±1.64 | 88.88±1.37 | 88.92±1.73 | 96.48±2.44 | 98.7±2.41 | 96.26±1.76 | 99.90±1.65 | 101.83±1.74 | 102.31±1.73 |
| **B^-VR** (mm) | 79.76±4.09 | 78.60±4.37 | 78.80±4.47 | 79.47±3.94 | 78.89±3.97 | 74.08±3.70 | 82.58±1.38 | 81.88±1.53 | 78.32±1.22 |
| **Pg^-HR** (mm) | 102.91±2.02 | 104.86±1.93 | 104.00±2.15 | 111.28±1.90 | 111.63±1.53 | 111.69±1.45 | 116.33±1.69 | 117.25±1.77 | 113.86±1.6 |
| **Pg^-VR** (mm) | 84.16±13.23 | 82.35±4.75 | 82.31±4.90 | 79.97±4.46 | 79.16±4.39 | 75.04±4.29 | 83.91±1.48 | 83.07±1.61 | 80.93±1.29 |
| **B-B^** (mm) | 11.74±0.50 | 12.08±0.46 | 12.08±0.38 | 14.16±0.62 | 14.37±0.61 | 14.04±0.83 | 14.37±0.61 | 13.17±0.34 | 12.75±0.21 |
| **Pg-Pg^** (mm) | 12.86±0.51 | 12.79±0.63 | 13.18±0.74 | 14.54±0.79 | 14.74±0.79 | 13.94±0.77 | 12.72±0.41 | 12.71±0.43 | 12.79±0.42 |
| **Gl-Sn** (mm) | 73.89±1.64 | 73.73±1.13 | 72.65±1.38 | 73.50±1.42 | 72.80±1.87 | 74.33±1.88 | 74.93±0.77 | 75.73±0.79 | 75.84±0.83 |
| **Sn-Me** (mm) | 69.39±1.51 | 70.32±1.60 | 70.44±2.01 | 75.56±1.38 | 76.80±1.51 | 76.16±1.68 | 77.95±1.22 | 78.74±1.26 | 75.99±1.15 |
| **Sn-St** (mm) | 18.57±0.58 | 18.62±0.43 | 23.39±0.77 | 23.07±0.60 | 23.9±0.71 | 20.88±0.63 | 22.14±0.54 | 21.9±0.49 | 23.59±0.54 |
| **St-Me** (mm) | 50.82±1.42 | 51.7±1.55 | 49.56±2.11 | 52.49±1.09 | 53.41±1.29 | 52.26±1.51 | 55.81±0.85 | 56.84±0.87 | 52.40±0.72 |
| **Sn-LLV** (mm) | 27.44±0.70 | 28.08±0.41 | 30.08±0.79 | 32.00±1.44 | 32.50±1.38 | 32.85±0.95 | 31.86±0.95 | 32.56±1.11 | 33.06±0.74 |
| **LLV-Me** (mm) | 41.95±1.31 | 42.23±1.60 | 40.37±2.04 | 43.56±1.44 | 44.30±1.57 | 43.30±1.53 | 46.09±1.00 | 46.18±1.11 | 42.93±0.69 |
| **LLA.B^.Pg^** (o) | 133.25±4 | 132.2±5.10 | 129.03±4.29 | 145.85±3.96 | 148.53±2.46 | 138.03±3.36 | 152.82±1.69 | 148.82±1.95 | 134.74±1.75 |
| **Nasolabial angle** (o) | 121.98±3.82 | 119.81±3.67 | 118.98±3.79 | 123.38±4.19 | 125.99±4.61 | 124.54±2.42 | 113.89±2.53 | 112.48±2.17 | 112.81±2.06 |
| **Gl-Sn/Sn-Me** | 1.09±0.01 | 1.00±0.02 | 1.09±0.01 | 1.11±0.02 | 1.11±0.02 | 1.12±0.02 | 1.07±0.02 | 1.09±0.01 | 1.10±0.01 |
| **Sn-St/St-Me** | 0.94±0.03 | 0.97±0.04 | 0.95±0.06 | 1.01±0.05 | 1.01±0.05 | 1.04±0.05 | 1.08±0.04 | 1.06±0.03 | 1.02±0.03 |
| **Sn-LLV/LLV-Me** | 1.05±0.93 | 0.92±0.8 | 0.96±0.82 | 0.7±0.59 | 0.69±0.59 | 0.71±0.57 | 0.10±0.00 | 0.10±0.01 | 0.13±0.00 |

X: Mean value Sx:Standard error. MA indicates maxillary advancement; MS, mandibular set back; BM, bimaxillary; T1, before treatment; T2, before surgery; and T3,end of fixed treatment.