Supplemental Table 3 Pearson Correlation Between Visual Analog Scale (VAS) Score of Pretreatment Profile and 30 Cephalometric Measurements in High Angle patients and Non-high Angle patients

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| High Angle (n=29) | Non-high angle (n=51) |
|  Variable | r | P | Order |  Variable | r | P | Order |
| L1-AP | -0.559  | 0.002\*  | 1 | L1-AP | -0.385  | 0.005\*  | 1 |
| L1-NB | -0.555  | 0.002\*  | 2 | L1-NB | -0.361  | 0.009\*  | 2 |
| L1/AP | -0.522  | 0.004\*  | 3 | LowerLip-E line | -0.337  | 0.016\*  | 3 |
| L1/NB | -0.518  | 0.004\*  | 4 | Z Angle | 0.296  | 0.035\*  | 4 |
| L1/MP | -0.488  | 0.007\*  | 5 | L1/NB | -0.280  | 0.046\*  | 5 |
| LowerLip-E line | -0.479  | 0.009\*  | 6 | L1/AP | -0.278  | 0.048\*  | 6 |
| Interincisal Angle | 0.451  | 0.014\*  | 7 | L1/MP | -0.277  | 0.049\*  | 7 |
| UpperLip-E line | -0.449  | 0.014\*  | 8 | overjet | -0.275  | 0.051  | 8 |
| Nasolabial Angle | 0.407  | 0.028\*  | 9 | Nose Prominence | -0.235  | 0.097  | 9 |
| U1-AP | -0.309  | 0.103  | 10 | Interincisal Angle | 0.222  | 0.118  | 10 |
| FA-Fall | -0.290  | 0.128  | 11 | MP/SN | 0.173  | 0.226  | 11 |
| U1-NA | -0.288  | 0.130  | 12 | Y Axis | 0.146  | 0.308  | 12 |
| Z Angle | 0.236  | 0.219  | 13 | Gonial Jaw Angle | -0.144  | 0.313  | 13 |
| U1/AP | -0.235  | 0.220  | 14 | U1-AP | -0.136  | 0.342  | 14 |
| U1/SN | -0.233  | 0.224  | 15 | MentoLabial Angle | -0.124  | 0.386  | 15 |
| Nose Prominence | 0.232  | 0.225  | 15 | Nasolabial Angle | 0.120  | 0.401  | 16 |
| LFH | 0.231  | 0.227  | 17 | U1-NA | -0.118  | 0.409  | 17 |
| U1/NA | -0.219  | 0.253  | 18 | Pog-NB | 0.101  | 0.482  | 18 |
| Gonial Jaw Angle | 0.209  | 0.277  | 19 | MP/FH | -0.087  | 0.544  | 19 |
| SNA | -0.177  | 0.358  | 19 | FA-Fall | -0.085  | 0.552  | 20 |
| Pog-NB | 0.175  | 0.364  | 21 | SNA | -0.084  | 0.557  | 21 |
| OP/SN | 0.167  | 0.386  | 22 | Wits# | -0.079  | 0.562  | 22 |
| SNB | -0.162  | 0.401  | 23 | U1/SN | -0.080  | 0.577  | 23 |
| Wits# | -0.142  | 0.578  | 24 | SNB | -0.074  | 0.608  | 24 |
| MP/FH | -0.090  | 0.644  | 25 | U1/AP | -0.073  | 0.609  | 25 |
| MentoLabial Angle | 0.085  | 0.663  | 26 | LFH | 0.064  | 0.656  | 26 |
| overjet | 0.068  | 0.727  | 27 | U1/NA | -0.060  | 0.676  | 27 |
| Y Axis | 0.039  | 0.840  | 28 | ANB# | -0.022  | 0.751  | 28 |
| ANB# | -0.022  | 0.890  | 29 | UpperLip-E line | 0.016  | 0.910  | 29 |
| MP/SN | -0.005  | 0.980  | 30 | OP/SN | 0.010  | 0.942  | 30 |

# ANB, and Wits were shown as a skewed distribution, the correlations between subjective VAS scores and objective measurements were assessed using Spearman correlation.