Supplemental Table 5 Pearson Correlation Between Changes in Visual Analog Scale (VAS) Score and Changes in 30 Cephalometric Measurements of Adolescent patients and Adult patients

|  |  |
| --- | --- |
| Adolescent (n=24) | Adult (n=56) |
|  Variable | r | P | Order |  Variable | r | P | Order |
| ΔL1-AP | -0.436  | 0.033\*  | 1 | ΔL1-AP | -0.427  | 0.001\*\*  | 1 |
| ΔL1-NB | -0.423  | 0.039\*  | 2 | ΔLowerLip-E line | -0.401  | 0.002\*\*  | 2 |
| ΔL1/NB | -0.421  | 0.041\*  | 3 | ΔL1-NB | -0.390  | 0.003\*\*  | 3 |
| ΔL1/AP | -0.391  | 0.059  | 4 | ΔLFH | -0.350  | 0.008\*\*  | 4 |
| ΔL1/MP | -0.383  | 0.065  | 5 | ΔL1/AP | -0.318  | 0.017\*  | 5 |
| ΔMentoLabial Angle | -0.380  | 0.067  | 6 | ΔL1/MP | -0.308  | 0.021\*  | 6 |
| ΔLowerLip-E line | -0.342  | 0.102  | 7 | ΔL1/NB | -0.304  | 0.023\*  | 7 |
| ΔMP/FH | -0.337  | 0.108  | 8 | ΔInterincisal Angle | 0.304  | 0.023\*  | 8 |
| ΔWits# | -0.300  | 0.155  | 9 | ΔZ Angle | 0.297  | 0.026\*  | 9 |
| ΔZ Angle | 0.275  | 0.194  | 10 | ΔMP/SN | -0.280  | 0.037\*  | 10 |
| ΔInterincisal Angle | 0.272  | 0.199  | 11 | ΔNasolabial Angle | 0.252  | 0.061  | 11 |
| ΔPog-NB | 0.264  | 0.212  | 12 | ΔU1/SN | -0.189  | 0.164  | 12 |
| Δoverjet | -0.237  | 0.265  | 13 | ΔU1-NA | -0.188  | 0.165  | 13 |
| ΔU1-AP | -0.224  | 0.293  | 14 | ΔFA-Fall | -0.177  | 0.191  | 14 |
| ΔMP/SN | -0.179  | 0.402  | 15 | ΔANB# | 0.164  | 0.227  | 15 |
| ΔSNA | -0.170  | 0.427  | 16 | ΔU1/AP | -0.164  | 0.227  | 16 |
| ΔFA-Fall | -0.168  | 0.432  | 17 | ΔU1-NA | -0.159  | 0.242  | 17 |
| ΔANB# | -0.164  | 0.445  | 18 | ΔU1-AP | -0.156  | 0.252  | 18 |
| ΔU1-NA | -0.155  | 0.470  | 19 | ΔY Axis | 0.153  | 0.260  | 19 |
| ΔLFH | -0.155  | 0.471  | 20 | ΔUpperLip-E line | -0.139  | 0.306  | 20 |
| ΔNasolabial Angle | 0.153  | 0.476  | 21 | ΔMentoLabial Angle | 0.138  | 0.310  | 21 |
| ΔU1-AP | -0.082  | 0.703  | 22 | Δoverjet | -0.107  | 0.433  | 22 |
| ΔUpperLip-E line | -0.080  | 0.710  | 23 | ΔNose Prominence | -0.103  | 0.450  | 23 |
| ΔGonial Jaw Angle | -0.065  | 0.763  | 24 | ΔPog-NB | 0.097  | 0.475  | 24 |
| ΔOP/SN | -0.063  | 0.769  | 25 | ΔOP/SN | 0.095  | 0.484  | 25 |
| ΔSNB | -0.059  | 0.783  | 26 | ΔSNB | -0.062  | 0.651  | 26 |
| ΔY Axis | -0.046  | 0.830  | 27 | ΔMP/FH | -0.036  | 0.794  | 27 |
| ΔNose Prominence | -0.039  | 0.856  | 28 | ΔWits# | 0.024  | 0.860  | 28 |
| ΔU1/SN | -0.028  | 0.898  | 29 | ΔGonial Jaw Angle | 0.008  | 0.954  | 29 |
| ΔU1/NA | 0.005  | 0.983  | 30 | ΔSNA | 0.003  | 0.982  | 30 |

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