***Table 1: Comparison of cephalometric parameters between male and female (Class I subjects)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Skeletal parameter | Male subjects (n=17) | | Female subjects (n=8) | |
| Mean | SD | Mean | SD |
| ANB | 3.17 | 1.62 | 4.00 | 1.069 |
| Witt’s Appraisal | 1.52 | 1.90 | 1.50 | 1.069 |
| ß Angle | 27.5 | 4.86 | 26.00 | 4.720 |
| W Angle | 53.88 | 1.70 | 54.87 | 0.640 |

***Table 2: Comparison of cephalometric parameters between male and female (Class II subjects)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Skeletal parameter | Male subjects (n=9) | | Female subjects (n=16) | |
| Mean | SD | Mean | SD |
| ANB | 3.77 | 1.986 | 5.68 | 1.85 |
| Witt’s Appraisal | 2.77 | 1.715 | 2.37 | 2.41 |
| ß Angle | 23.11 | 4.166 | 23.81 | 3.29 |
| W Angle | 51.11 | 2.472 | 48.50 | 1.31 |

***Table 3: ANOVA analysis (pooled group n=50)***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Skeletal parameters | Class I group | SD | Class II group | SD | P value |
| ANB | 3.44º | 1.52 | 5.0º | 2.08 | 0.099 |
| Witt’s Appraisal | 1.52mm | 1.68 | 2.52mm | 2.18 | 0.539 |
| ß Angle | 27.04º | 4.77 | 23.56º | 3.55 | 0.006\* |
| W Angle | 54.2º | 1.47 | 49.44º | 2.18 | 0.002\*\* |

**\*significant at 0.05 level.**

**\*\*significant at 0.005 level, thus highly significant.**

***Table 4: Coefficient of variability in class I group***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Skeletal parameters | Min. | Max. | Mean | SD | CV |
| ANB | 2 | 6 | 3.44º | 1.52 | 1.10 |
| Witt’s Appraisal | 0 | 5 | 1.52 | 1.68 | 1.67\*\* |
| ß Angle | 19 | 35 | 27.04 | 4.77 | 0.17 |
| W Angle | 52 | 56 | 54.2 | 1.47 | 0.02\* |

**\*Most homogenous distribution.**

**\*\*Least homogenous distribution.**

***Table 5: Coefficient of variability in class II group***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Skeletal parameters | Min. | Max. | Mean | SD | CV |
| ANB | 2 | 9 | 5.0 | 2.08 | 0.41 |
| Witt’s Appraisal | 0 | 7 | 2.52 | 2.18 | 0.86\*\* |
| ß Angle | 18 | 31 | 23.56 | 3.55 | 0.15 |
| W Angle | 46 | 55 | 49.44 | 2.18 | 0.04\* |

**\* Most homogenous distribution.**

**\*\* Least homogenous distribution.**

***Table 6: Correlation coefficient among all four skeletal parameters***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | | | **ANB** | **WITS APPRAISAL** | **BETA ANGLE** | **W ANGLE** |
| **Class I** | **ANB** | R value | 1 | 0.414\* | -0.761\*\* | -0.207 |
| p-value |  | 0.039 | <0.001 | 0.320 |
| **WITS APPRAISAL** | R value |  | 1 | -0.523\*\* | 0.041 |
| p-value |  |  | 0.007 | 0.846 |
| **BETA ANGLE** | R value |  |  | 1 | .100 |
| p-value |  |  |  | 0.636 |
| **W ANGLE** | R value |  |  |  | 1 |
| p-value |  |  |  |  |
| **Class II** | **ANB** | R value | 1 | 0.505\*\* | -0.523\*\* | -0.661\*\* |
| p-value |  | 0.010 | 0.007 | <0.001 |
| **WITS APPRAISAL** | R value |  | 1 | -0.511\*\* | -0.087 |
| p-value |  |  | 0.009 | 0.68 |
| **BETA ANGLE** | R value |  |  | 1 | 0.251 |
| p-value |  |  |  | 0.225 |
| **W ANGLE** | R value |  |  |  | 1 |
| p-value |  |  |  |  |

**\*. Correlation is significant at the 0.05 level (2-tailed).**

**\*\*. Correlation is significant at the 0.01 level (2-tailed).**