|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | All | Percentage | | Grade 1 | Percentage | | Grade 2 | Percentage | | Grade 3 or Dedifferentiated | Percentage | | p values |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender |  |  | 113 |  |  | 19 |  |  | 61 |  |  | 33 |  |  | 0.25 | Chi-square test |
|  | Male |  | 52 | 46.01 |  | 5 | 26.32 |  | 33 | 54.1 |  | 14 | 42.42 |  |  |  |
|  | Female |  | 61 | 53.98 |  | 14 | 73.68 |  | 28 | 45.9 |  | 19 | 57.58 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Range |  | 15 - 91 |  |  | 15 - 75 |  |  | 16 - 91 |  |  | 20 - 91 |  |  |  |  |
|  | Mean |  | 57.17 |  |  | 48.26 |  |  | 56.77 |  |  | 63.03 |  |  | 0.03 | One Way ANOVA |
|  | 95% CI SEM | | 3.17 |  |  | 7.38 |  |  | 4.18 |  |  | 5.67 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tumor Location | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Femur |  | 59 | 52.21 |  | 4 | 21.05 |  | 34 | 55.74 |  | 21 | 63.64 |  |  |  |
|  | Tibia |  | 12 | 10.61 |  | 2 | 10.52 |  | 6 | 9.83 |  | 4 | 12.12 |  |  |  |
|  | Fibula |  | 5 | 4.42 |  | 4 | 21.05 |  | 1 | 1.64 |  | 0 | 0 |  |  |  |
|  | Humerus |  | 34 | 30.08 |  | 6 | 31.58 |  | 20 | 32.79 |  | 8 | 24.24 |  |  |  |
|  | Radius |  | 1 | 0.88 |  | 1 | 5.26 |  | 0 | 0 |  | 0 | 0 |  |  |  |
|  | Ulna |  | 2 | 1.77 |  | 2 | 10.53 |  | 0 | 0 |  | 0 | 0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Max Tumor Dimension (cm) | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Range |  | 1.5 - 35 |  |  | 1.5 - 12.3 |  |  | 2.9 - 35 |  |  | 5.8 - 32.1 |  |  |  |  |
|  | Mean |  | 11.76 |  |  | 5.33 |  |  | 12.5 |  |  | 12.71 |  |  | 0.116 | Kruskall-Wallis Test |
|  | 95% CI SEM | | 1.47 |  |  | 2.01 |  |  | 2.1 |  |  | 2.11 |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiological Features | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Medullary Expansion | | 29 | 25.66 |  | 3 | 15.79 |  | 16 | 26.22 |  | 10 | 30.3 |  | 0.8 | Chi-square test |
|  | Endosteal Scalloping >2/3 cortical circumference | | 94 | 83.19 |  | 13 | 68.42 |  | 51 | 83.61 |  | 30 | 90.9 |  | 0.075 | Chi-square test |
|  | Endosteal Scalloping >2/3 cortical length | | 104 | 92.04 |  | 16 | 84.21 |  | 55 | 90.16 |  | 33 | 100 |  | 0.24 | Chi-square test |
|  | Cortical Erosion/break | | 86 | 76.11 |  | 7 | 36.84 |  | 48 | 78.69 |  | 31 | 93.93 |  | <0.001 | Chi-square test |
|  | Periosteal Reaction | | 91 | 80.53 |  | 6 | 31.58 |  | 53 | 86.89 |  | 32 | 96.97 |  | <0.001 | Chi-square test |
|  | Pathological fracture | | 22 | 19.47 |  | 3 | 15.79 |  | 5 | 8.2 |  | 14 | 42.42 |  | 0.002 | Chi-square test |
|  | Cortical Thickening | | 8 | 7.08 |  | 0 | 0 |  | 7 | 11.48 |  | 1 | 3.03 |  | 0.39 | Chi-square test |
|  | Marrow Edema | | 25 | 22.12 |  | 1 | 5.26 |  | 8 | 13.11 |  | 16 | 48.48 |  | 0.001 | Chi-square test |
|  | Soft Tissue Component | | 67 | 59.29 |  | 4 | 21.05 |  | 33 | 54.1 |  | 30 | 90.9 |  | <0.001 | Chi-square test |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Radiological Agressiveness Score | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Range |  | 1 to 8 |  |  | 1 to 4 |  |  | 3 to 6 |  |  | 4 to 8 |  |  |  |  |
|  | Median |  | 5 |  |  | 3 |  |  | 4 |  |  | 6 |  |  | <0.001 | Kruskall-Wallis Test |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |