**Table 1. Patient, tumor, and treatment differences between radiation associated sarcoma of the pelvis and sacrum and primary osteosarcoma/ spindle cell sarcoma**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Radiation Associated Sarcoma of Pelvis (n=35)** | **Primary Osteosarcoma/ Spindle Cell Sarcoma of Pelvis (n=73)** |  |
|  | **n (%)** | **n (%)** | **p- value**# |
|  |  |  |  |
| **Median Age (years)** | 57 (14-84) | 38 (12-81) | **<0.001** |
|  |  |  |  |
| **Gender** |  |  |  |
| Male | 21 (58) | 42 (58) | 0.94 |
| Female | 15 (42) | 31 (42) |  |
|  |  |  |  |
| **Location** |  |  |  |
| Pelvis | 19 (54) | 50 (68) | **<0.001** |
| Sacrum | 15 (43) | 10 (14) |  |
| Combined | 1 (3) | 13 (18) |  |
|  |  |  |  |
| **Median Tumor Size** | 9 (3-20)  | 11 (3-28) | 0.1 |
|  |  |  |  |
| **Grade** |  |  | 0.27 |
| Intermediate | 4 (12) | 4 (6) |  |
| High/ undifferentiated | 30 (88) | 68 (94) |  |
|  |  |  |  |
| **Chemotherapy** |  |  | **0.011** |
| Yes | 25 (71) | 66 (90) |  |
| No | 10 (29) | 7 (10) |  |
|  |  |  |  |
| **Radiotherapy** |  |  | 0.51 |
| Yes | 6 (17) | 9 (12) |  |
| No | 29 (83) | 64 (88) |  |
|  |  |  |  |
| **Type of Surgery** |  |  | 0.16 |
| Limb Salvage | 28 (80) | 49 (67) |  |
| Amputation | 7 (20) | 24 (33) |  |
|  |  |  |  |
| **Type of Closure** |  |  | 0.18 |
| Primary | 34 (97) | 66 (90) |  |
| Flap | 1 (3) | 7 (10) |  |
|  |  |  |  |
| **Margin Status** |  |  | 0.35 |
| Positive | 6 (18) | 8 (11) |  |
| Negative | 28 (82) | 65 (89) |  |
|  |  |  |  |
| **Complications** |  |  | 0.28 |
| Yes | 29 (78) | 55 (65) |  |
| No | 8 (22) | 39 (35) |  |
|  |  |  |  |
| **Perioperative Death within 90 days of Surgery** |  |  | **0.03** |
| Yes | 6 (17) | 3 (4) |  |
| No | 29 (83) | 70 (96) |  |
|  |  |  |  |
| **Median time to local recurrence (months)** | 5 (3- 21.1) | 14 (2- 200) | 0.07 |
| **Median time to metastasis (months)** | 8 (3.5- 52.1) | 11 (3- 141) | 0.69 |
| **Median time to death (months)** | 11 (0-50) | 13 (0-57.3) | 0.53 |

#Significance was denoted for p<0.05