**Supplementary Table 4**

**Trabecular Bone**

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| --- | --- | --- |
| **Parameters** | **Control** | **BEZ235**  **45 mg/Kg/day** |
| **TV (mm3)** | 0.64 ± 0.3 | 0.49 ± 0.08 |
| **BV (mm3)** | 0.16 ± 0.02 | 0.13 ± 0.02 |
| **BV/TV (%)** | 26.06 ± 0.93 | 26.05 ± 1.92 |
| **TS (mm2)** | 5.65 ± 0.3 | 4.56 ± 0.53 |
| **BS (mm2)** | 5.65 ± 0.44 | 5.65 ± 0.81 |
| **BS/BV (mm-1)** | 45.04 ± 1.01 | 46.10 ± 3.11 |
| **BS/TV (mm-1)** | 11.72 ± 0.42 | 11.87 ± 1.49 |
| **Tb.Th** | 0.08 ± 0.001 | 0.08 ± 0.005 |
| **Tb.N** | 3.56 ± 0.11 | 3.08 ± 0.18 |
| **Tb.Sp** | 0.21 ± 0.01 | 0.19 ± 0.05 |

**Cortical Bone**

|  |  |  |
| --- | --- | --- |
| **Parameters** | **Control** | **BEZ235**  **45 mg/Kg/day** |
| **TV (mm3)** | 5.68 ± 0.28 | 5.89 ± 0.18 |
| **BV (mm3)** | 3.97 ± 0.15 | 4.1 ± 0.11 |
| **BV/TV (**%**)** | 70.12 ± 1.25 | 69.73 ± 1.36 |
| **TS (mm2)** | 34.93 ± 0.90 | 35.50 ± 1.00 |
| **BS (mm2)** | 33.98 ± 0.69 | 34.51 ± 1.02 |
| **BS/BV (mm-1)** | 8.60 ± 0.17 | 8.41 ± 0.08 |
| **BS/TV (mm-1)** | 6.04 ± 0.19 | 5.86 ± 0.12 |
| **CTh (mm)** | 0.33 ± 0.01 | 0.33 ± 0.04 |

**Histomorphometric parameters of contralateral trabecular and cortical bone in HOS xenogenic and osteogenic osteosarcoma model:** TV (tissue volume, mm3). BV (bone volume, mm3). BV/TV (percent of bone volume, %). TS (tissue surface, mm2). BS (bone surface. mm2). BS/BV (bone surface/bone volume ratio, mm-1). BS/TV (bone surface density. mm-1).CTh (cortical thickness, mm). TbTh (trabecular thickness, mm). TbN (trabecular number). TbSp (trabecular spaces, mm).