**Supplementary Table 1. Paternal line F2 and F3 female pQCT parameters at 6 and 12 months.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Paternal Line | F2 | | F3 | | Two-way ANOVA | |
|  | Cont | Rest | Cont | Rest | Treatment | Generation |
| *Females 6mo* |  |  |  |  |  |  |
| Trabecular content (mg/mm) | 7.68±0.08 | 7.79±0.10 | 7.72±0.13 | 7.84±0.08 | NS | NS |
| Trabecular density (mg/cm3) | 568±5.85 | 578±5.70 | 573±8.26 | 572±7.10 | NS | NS |
| Cortical content (mg/mm) | 8.43±0.1 | 8.30±0.1 | 8.37±0.1 | 8.53±0.1 | NS | NS |
| Cortical density (mg/cm3) | 1429±2.9 | 1427±2.4 | 1429±3.7 | 1426±2.5 | NS | NS |
| Cortical thickness (mm) | 0.7±0.01 | 0.7±0.004 | 0.7±0.01 | 0.7±0.01 | NS | NS |
| Periosteal circumference (mm) | 10.7±0.05 | 10.7±0.05 | 10.7±0.07 | 10.8±0.03 | NS | NS |
| Endosteal circumference (mm) | 6.4±0.05 | 6.4±0.03 | 6.4±0.05 | 6.5±0.02 | NS | NS |
| Bending strength (mm3) | 4.1±0.08 | 4.0±0.07 | 4.0±0.09 | 4.2±0.04 | NS | NS |
|  |  |  |  |  |  |  |
| *Females 12mo* |  |  |  |  |  |  |
| Trabecular content (mg/mm) | 7.44±0.15 | 7.61±0.04 | 7.42±0.16 | 7.72±0.07 | NS | NS |
| Trabecular density (mg/cm3) | 553±11.68 | 560±3.50 | 559±8.20 | 578±9.51 | NS | NS |
| Cortical content (mg/mm) | 9.22±0.1 | 9.42±0.1 | 9.18±0.1 | 9.39±0.1 | NS | NS |
| Cortical density (mg/cm3) | 1449±2.7 | 1456±2.9 | 1444±2.5 | 1457±2.2 | NS | NS |
| Cortical thickness (mm) | 0.7±0.01 | 0.7±0.01 | 0.7±0.01 | 0.7±0.01 | NS | NS |
| Periosteal circumference (mm) | 11.1±0.05 | 11.3±0.03 | 11.1±0.07 | 11.2±0.07 | NS | NS |
| Endosteal circumference (mm) | 6.6±0.04 | 6.8±0.04 | 6.6±0.09 | 6.6±0.08 | NS | NS |
| Bending strength (mm3) | 4.6±0.08 | 4.8±0.06 | 4.7±0.10 | 4.8±0.11 | NS | NS |
|  |  |  |  |  |  |  |

Data is presented as mean ± SEM; (6mo n=8-10/group; 12mo n=8-10/per group.