|  |
| --- |
| **Table 6: Mean change from baseline in densitometry results for each study group** |
| **Outcome** | **TKR (N = 19)** |  | **Controls (N = 43)** |  | **Difference in mean change (TKR – control)** |
|  | Mean (SD) | Mean change (SD) |  | Mean (SD) | Mean change (SD) |  | estimate | 95% CI | p value |
|  |  |  |  |  |  |  |  | Lower | Upper |  |
| TBS Spine |  |  |  |  |  |  |  |  |  |  |
| Baseline | 1.265 (0.141) |  |  | 1.300 (0.092) |  |  |  |  |  |  |
| 6 week visit | - |  |  | - |  |  |  |  |  |  |
| 6 month visit | 1.253 (0.133) | -0.013 (0.066) |  | 1.293 (0.105) | -0.008(0.049) |  | -0.005 | -0.035 | 0.025 | 0.74 |
| 12 month visit | 1.256 (0.127) | -0.009 (0.066) |  | 1.296 (0.100) | -0.005 (0.041) |  | -0.004 | -0.032 | 0.023 | 0.76 |
|  |  |  |  |  |  |  |  |  |  |  |
| BMD L1-L4 |  |  |  |  |  |  |  |  |  |  |
| Baseline | 1.21 (0.233) |  |  | 1.143 (0.192) |  |  |  |  |  |  |
| 6 week visit | - |  |  | - |  |  |  |  |  |  |
| 6 month visit | 1.197 (0.242) | -0.013 (0.034) |  | 1.138 (0.178) | -0.005 (0.029) |  | -0.008 | -0.024 | 0.009 | 0.38 |
| 12 month visit | 1.199 (0.238) | -0.011 (0.031) |  | 1.139 (0.180) | -0.004 (0.031) |  | -0.007 | -0.025 | 0.01 | 0.39 |
|  |  |  |  |  |  |  |  |  |  |  |
| Ipsilateral Femur BMD NOF |  |  |  |  |  |  |  |  |  |  |
| Baseline | 0.949 (0.126) |  |  | 0.896 (0.133) |  |  |  |  |  |  |
| 6 week visit | 0.942 (0.128) | -0.007 (0.029) |  | - |  |  |  |  |  |  |
| 6 month visit | 0.936 (0.134) | -0.013 (0.024) |  | 0.899 (0.136) | 0.002 (0.028) |  | -0.015 | -0.03 | -0.001 | 0.04 |
| 12 month visit | 0.933 (0.135) | -0.017 (0.036) |  | 0.888 (0.130) | -0.008 (0.027) |  | -0.008 | -0.024 | 0.008 | 0.33 |
|  |  |  |  |  |  |  |  |  |  |  |
| Contralateral Femur BMD NOF |  |  |  |  |  |  |  |  |  |  |
| Baseline | 0.937 (0.140) |  |  | 0.903 (0.126) |  |  |  |  |  |  |
| 6 week visit | 0.942 (0.143) | 0.006 (0.035) |  | - |  |  |  |  |  |  |
| 6 month visit | 0.933 (0.152) | -0.003 (0.028) |  | 0.899 (0.124) | -0.004 (0.027) |  | 0.001 | -0.015 | 0.016 | 0.93 |
| 12 month visit | 0.931 (0.156) | -0.006 (0.036) |  | 0.899 (0.120) | -0.004 (0.025) |  | -0.002 | -0.018 | 0.015 | 0.83 |
|  |  |  |  |  |  |  |  |  |  |  |
| Ipsilateral Femur BMD Total Hip |  |  |  |  |  |  |  |  |  |  |
| Baseline | 0.981 (0.126) |  |  | 0.948 (0.149) |  |  |  |  |  |  |
| 6 week visit | 0.969 (0.132) | -0.011 (0.017) |  | - |  |  |  |  |  |  |
| 6 month visit | 0.965 (0.131) | -0.016 ( 0.021) |  | 0.948 (0.150) | 0 (0.018) |  | -0.016 | -0.026 | -0.005 | 0.004 |
| 12 month visit | 0.966 (0.129) | -0.015 (0.025) |  | 0.945 (0.144) | -0.003 (0.017) |  | -0.012 | -0.023 | -0.001 | 0.03 |
|  |  |  |  |  |  |  |  |  |  |  |
| Contralateral Femur BMD Total Hip |  |  |  |  |  |  |  |  |  |  |
| Baseline | 0.994 (0.148) |  |  | 0.953 (0.151) |  |  |  |  |  |  |
| 6 week visit | 0.992 (0.144) | -0.002 (0.015) |  | - |  |  |  |  |  |  |
| 6 month visit | 0.995 (0.153) | 0.001 (0.018) |  | 0.948 (0.146) | -0.005 (0.016) |  | 0.006 | -0.004 | 0.015 | 0.23 |
| 12 month visit | 0.993 (0.150) | -0.001 (0.021) |  | 0.95 (0.142) | -0.003 (0.019) |  | 0.002 | -0.009 | 0.013 | 0.71 |
|  |  |  |  |  |  |  |  |  |  |  |
| Lean Ipsilateral Leg (g)  |  |  |  |  |  |  |  |  |  |  |
| Baseline | 6398 (878) |  |  | 6311 (766) |  |  |  |  |  |  |
| 6 week visit | 6043 (1094) | -355 (643) |  | - |  |  |  |  |  |  |
| 6 month visit | 6173 (933) | -225 (596) |  | 6313 (828) | 2 (348) |  | -227 | -470 | 17 | 0.07 |
| 12 month visit | 6138 (1148) | -260 (921) |  | 6334 (755) | 22 (343) |  | -282 | -603 | 40 | 0.09 |
|  |  |  |  |  |  |  |  |  |  |  |
| Lean Contralateral Leg (g)  |  |  |  |  |  |  |  |  |  |  |
| Baseline | 6461 (888) |  |  | 6300 (791) |  |  |  |  |  |  |
| 6 week visit | 6135 (787) | -326 (614) |  | - |  |  |  |  |  |  |
| 6 month visit | 6155 (768) | -306 (782) |  | 6273 (743) | -27 (220) |  | -279 | -536 | -22 | 0.03 |
| 12 month visit | 6056 (858) | -405 (928) |  | 6307 (734) | 7 (293) |  | -418 | -723 | -101 | 0.01 |
|   |   |   |   |   |   |   |   |   |   |   |
| Notes: |  |  |  |  |  |  |  |  |  |  |
| SD = standard deviation |  |  |  |  |  |  |  |  |  |  |
| BMD  (g/cm2) |   |   |   |   |   |   |   |   |   |   |