**Supplementary Table 1.** Comparison of changes of early osteoclast precursors

<table>
<thead>
<tr>
<th></th>
<th>Denosumab (N = 11)</th>
<th>Zoledronate (N = 12)</th>
<th>Total (N = 23)</th>
<th>(P)-value&lt;sup&gt;a&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Baseline</strong></td>
<td>1.30 (1.20-1.45)</td>
<td>1.00 (0.75-2.45)</td>
<td>1.30 (0.95-1.65)</td>
<td>0.339</td>
</tr>
<tr>
<td><strong>Week 4</strong></td>
<td>1.40 (0.95-2.95)</td>
<td>1.20 (0.60-1.90)</td>
<td>1.20 (0.75-2.00)</td>
<td>0.478</td>
</tr>
<tr>
<td>Change from baseline</td>
<td>0.30 (-0.30-0.85)</td>
<td>-0.05 (-0.80-0.10)</td>
<td>0.00 (-0.50-0.50)</td>
<td>0.240</td>
</tr>
<tr>
<td>%Change from baseline</td>
<td>23.68 (-22.40-59.89)</td>
<td>-5.00 (-29.96-10.00)</td>
<td>0.00 (-29.96-28.74)</td>
<td>0.406</td>
</tr>
<tr>
<td>(P)-value (baseline - week 4)&lt;sup&gt;b&lt;/sup&gt;</td>
<td>0.312</td>
<td>0.226</td>
<td>0.791</td>
<td></td>
</tr>
<tr>
<td><strong>Week 24</strong></td>
<td>1.20 (0.70-1.40)</td>
<td>1.25 (0.55-1.60)</td>
<td>1.20 (0.60-1.60)</td>
<td>0.943</td>
</tr>
<tr>
<td>Change from baseline</td>
<td>-0.10 (-0.50-0.30)</td>
<td>-0.05 (-0.60-0.20)</td>
<td>-0.10 (-0.50-0.20)</td>
<td>0.887</td>
</tr>
<tr>
<td>%Change from baseline</td>
<td>-6.67 (-35.71-23.68)</td>
<td>-5.56 (-27.22-20.00)</td>
<td>-6.67 (-35.71-20.00)</td>
<td>0.887</td>
</tr>
<tr>
<td>(P)-value (baseline - week 24)&lt;sup&gt;b&lt;/sup&gt;</td>
<td>0.855</td>
<td>0.176</td>
<td>0.359</td>
<td></td>
</tr>
<tr>
<td><strong>Week 48</strong></td>
<td>0.60 (0.40-1.40)</td>
<td>0.65 (0.30-1.55)</td>
<td>0.60 (0.30-1.40)</td>
<td>0.775</td>
</tr>
<tr>
<td>Change from baseline</td>
<td>-0.20 (-1.00-0.30)</td>
<td>-0.55 (-1.65-0.25)</td>
<td>-0.30 (-1.10-0.30)</td>
<td>0.749</td>
</tr>
<tr>
<td>%Change from baseline</td>
<td>-28.57 (-72.73-20.00)</td>
<td>-51.08 (-70.23-20.00)</td>
<td>-40.00 (-72.73-20.00)</td>
<td>1.000</td>
</tr>
<tr>
<td>(P)-value (week 0 - week 48)&lt;sup&gt;b&lt;/sup&gt;</td>
<td>0.142</td>
<td>0.108</td>
<td>0.048</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup>\(P\)-values were derived from Student’s \(t\)-test in analyzing between groups.

<sup>b</sup>\(P\)-values were derived from Wilcoxon signed-rank test in analyzing within groups.