**Supplementary Table 1.** Correlations between Wnt/β-catenin pathway inhibitors levels and bone and adiposity parameters

| Parameter          | Spearman’s rho | P-value |
|--------------------|----------------|---------|
| **Sclerostin**     |                |         |
| BMD hip            | -0.573         | 0.066   |
| BMD femoral neck   | -0.454         | 0.089   |
| BMD L3             | -0.364         | 0.248   |
| FMI at L3          | -0.096         | 0.735   |
| **DKK1**           |                |         |
| BMD hip            | 0.091          | 0.790   |
| BMD femoral neck   | -0.004         | 0.990   |
| BMD L3             | 0.132          | 0.639   |
| FMI at L3          | -0.104         | 0.713   |
| **FGF23**          |                |         |
| BMD hip            | 0.000          | 1.000   |
| BMD femoral neck   | -0.307         | 0.265   |
| BMD L3             | -0.029         | 0.919   |
| FMI at L3          | 0.150          | 0.594   |
| **α-klotho levels**|                |         |
| BMD hip            | 0.127          | 0.709   |
| BMD femoral neck   | 0.096          | 0.732   |
| BMD L3             | -0.304         | 0.271   |
| FMI L3             | 0.232          | 0.405   |

BMD, bone mineral density; FMI, fat marrow index; DKK1, dickkopf-related protein 1; FGF23, fibroblast growth factor 23.