**Online Supplementary Table 1:** Gradient of risk (hazard ratio per 1 SD decrease in predictor) for DXA indices (femoral neck, lumbar spine and whole body BMC, BMD and area) and incident major osteoporotic fracture.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Unadjusted** | | | **Adjusted for age** | | | **Fully adjusted GR‡** | | |
| **Predictor** | **HR/SD†** | **95%CI** | **p-value** | **HR/SD†** | **95%CI** | **p-value** | **HR/SD††** | **95%CI** | **p-value** |
| **Femoral neck** |  |  |  |  |  |  |  |  |  |
| Area | 0.71 | 0.43,1.16 | 0.167 | 0.82 | 0.51,1.33 | 0.418 | 0.85 | 0.53,1.37 | 0.513 |
| BMC | 1.84 | 1.14,2.96 | 0.012 | 1.53 | 0.89,2.63 | 0.121 | 1.60 | 0.94,2.74 | 0.084 |
| BMD | 2.76 | 1.57,4.85 | <0.001 | 2.43 | 1.22,4.84 | 0.011 | 2.80 | 1.34,5.84 | 0.006 |
| **Lumbar spine** |  |  |  |  |  |  |  |  |  |
| Area | 1.40 | 0.86,2.26 | 0.174 | 1.26 | 0.80,2.00 | 0.323 | 1.34 | 0.83,2.17 | 0.234 |
| BMC | 2.81 | 1.64,4.83 | <0.001 | 2.32 | 1.27,4.26 | 0.006 | 2.55 | 1.34,4.87 | 0.004 |
| BMD | 2.92 | 1.78,4.80 | <0.001 | 2.63 | 1.44,4.81 | 0.002 | 2.98 | 1.54,5.77 | 0.001 |
| **Whole body** |  |  |  |  |  |  |  |  |  |
| BMC | 1.94 | 1.12,3.36 | 0.017 | 1.55 | 0.85,2.81 | 0.150 | 1.89 | 0.91,3.93 | 0.087 |
| BMD | 2.12 | 1.38,3.27 | 0.001 | 1.85 | 1.09,3.13 | 0.022 | 2.23 | 1.21,4.13 | 0.010 |
|  |  |  |  |  |  |  |  |  |  |

**†**HR for major osteoporotic fracture per 1 SD decrease in the predictor; ‡Adjusted for age, BMI, alcohol, smoking, HRT, previous fractures, medication