**Supplemental Table 1. Association between detectable coronary artery calcium and bone mineral density stratified according to age in the Study to Understand the Natural History of HIV/AIDS in the Era of Effective Therapy, 2004-2012, United States (N = 472)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | CAC > 0 (n = 84) | Unadjusted Odds ratio | p |
| T-score\* | Femoral neck |  |  |  |
|  18-40 years | 9 | 1.01 (0.94-01.09) | 0.750 |
|  41-50 years | 48 | 1.00 (0.97 – 1.04) | 0.879 |
|  > 50 years | 27 | 1.01 (0.96 – 1.08) | 0.639 |
| Total hip |  |  |  |
|  18-40 years | 9 | 1.02 (0.95 – 1.10) | 0.600 |
|  41-50 years | 48 | 1.00 (0.97 – 1.04) | 0.939 |
|  > 50 years | 27 | 1.00 (0.94 – 1.06) | 0.9423 |
| Lumbar spine |  |  |  |
|  18-40 years | 9 | 1.04 (0.98 – 1.11) | 0.210 |
|  41-50 years | 48 | 0.99 (0.97 – 1.02) | 0.616 |
|  > 50 years | 27 | 1.00 (0.96 – 1.04) | 0.925 |
| BMD (g/cm2)† | Femoral neck |  |  |  |
|  18-40 years | 9 | 1.07 (0.64 – 1.82) | 0.798 |
|  41-50 years | 48 | 1.17 (0.89 – 1.55) | 0.270 |
|  > 50 years | 27 | 1.17 (0.78 – 1.77) | 0.451 |
| Total hip |  |  |  |
|  18-40 years | 9 | 1.10 (0.68 – 1.76) | 0.702 |
|  41-50 years | 48 | 1.12 (0.88 – 1.44) | 0.344 |
|  > 50 years | 27 | 1.07 (0.74 – 1.54) | 0.724 |
| Lumbar spine |  |  |  |
|  18-40 years | 9 | 1.38 (0.81 – 2.47) | 0.254 |
|  41-50 years | 48 | 1.09 (0.85 – 1.41) | 0.510 |
|  > 50 years | 27 | 1.08 (0.75 – 1.56) | 0.694 |
| Osteopenia or osteoporosis‡(WHO classification) |  18-40 years | 9 | 2.78 (0.65 – 18.93) | 0.210 |
|  41-50 years | 48 | 1.19 (0.60 – 2.45) | 0.620 |
|  > 50 years | 27 | 0.60 (0.16 – 2.26) | 0.451 |

\*Per 0.1 standard deviation decrease in T-score

†Per 0.1 g/cm2 decrease in BMD

‡n, (%)

BMD, bone mineral density

WHO, World Health Organization

**Supplemental Table 2. Association between coronary artery calcium >100 Agatston score (n = 27) and bone mineral density in the Study to Understand the Natural History of HIV/AIDS in the Era of Effective Therapy, 2004-2012, United States (N = 398)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Unadjusted odds ratio | *p* | Adjusted odds ratio for age alone | *p* |
| T-score\* |
| Femoral neck | 1.06 (1.02 – 1.11) | 0.006 | 1.02 (0.97-1.07) | 0.38 |
| Total hip | 1.04 (1.00 – 1.09) | 0.042 | 1.01 (0.96-1.05) | 0.79 |
| Lumbar spine | 1.03 (0.99 – 1.06) | 0.1198 | 1.01 (0.98-1.04) | 0.59 |
| BMD (g/cm2)† |
| Femoral neck | 1.59 (1.17 – 2.20) | 0.004 | 1.23 (0.87-1.76) | 0.25 |
| Total hip | 1.39 (1.06 – 1.83) | 0.016 | 1.14 (0.85-1.53) | 0.38 |
| Lumbar spine | 1.35 (1.00 – 1.86) | 0.055 | 1.17 (0.86-1.62) | 0.33 |
| World Health Organization classification of BMD |
| Osteopenia or osteoporosis‡ | 2.25 (0.94 – 6.24) | 0.088 | 1.29 (0.49-3.80) | 0.62 |

\*Per 0.1 standard deviation decrease in T-score

†Per 0.1 g/cm2 decrease in BMD

‡n, (%)

BMD, bone mineral density