**Supplementary Table 1: Unadjusted and adjusted logistic regression for very low BMD and unadjusted and adjusted linear regression estimates for BMD in PLWH.**Multivariable models have been adjusted for age, sex, pack-years, body mass index, alcohol, ethnicity and physical activity.

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| --- | --- | --- |
|  | **Very low BMD**  | **BMD as continuous variable** |
| **Covariates** | Unadjusted OR(95% CI) | P-value | Adjusted OR(95% CI) | P-value | Unadjustedβ coefficient(95% CI) | P-value | Adjustedβ coefficient(95% CI) | P-value |
| Age, per 10 years | 2.24(1.81-2.78) | <0.001 | 2.01(1.55-2.60) | <0.001 | -23.83(-27.53 - -20.13) | <0.001 | -18.04(-21.81- -14.27) | <0.001 |
| Sex, male vs. female | 2.23(1.09-4.56) | 0.030 | 2.43(0.93-6.33) | 0.070 | -40.76(-51.33 - -30.20) | <0.001 | -34.73(-45.45- -24.01) | <0.001 |
| BMI | 0.81(0.75-0.86) | <0.001 | 0.75(0.69-0.82) | <0.001 | 4.23(3.26-5.20) | <0.001 | 4.41(3.52-5.31) | <0.001 |
| Smoking, pack-years | 1.02(1.01-1.03) | <0.001 | 1.01(1.00-1.02) | 0.023 | -0.45(-0.61- -0.28) | <0.001 | -0.14(-0.29- -0.01 | 0.071 |
| Physical activity |  | 0.107 |  | 0.212 |  | 0.033 |  | 0.006 |
|  Inactive | Ref. |  | Ref. |  | Ref. |  | Ref. |  |
|  Slightly active | 0.68(0.35-1.33) |  | 0.65(0.27-1.58) |  | 6.89(-7.78- 21.56) |  | 12.98(0.05-25.91) |  |
|  Moderately active | 0.55(0.28-1.06) |  | 0.44(0.18-1.08) |  | 8.76(-5.70- 23.22) |  | 18.73(5.72-31.74) |  |
|  Very active | 0.35(0.14-0.87 |  | 0.43(0.14-1.31) |  | 23.41(6.20-40.63) |  | 25.66(10.26-41.06) |  |

Abbreviations: CI, confidence interval; BMD, bone mineral density; BMI, body mass index; OR, odds ratio.