

Supplementary Table 3. Length at birth and conditional growth in height explaining spine (L2-L4) bone area, bone mineral content (BMC), and areal bone mineral density (aBMD) in early old age in a subgroup of women (n=178) from the Helsinki Birth Cohort Study.

| | Model 1 | | | Model 2 | | |
|----------------------------------|---------|------------|--------|---------|------------|--------|
| | B | 95% CI | p | B | 95% CI | p |
| Bone area, cm² | | | | | | |
| Birth | 1.09 | 0.58;1.60 | >0.001 | 0.37 | -0.16;0.89 | 0.17 |
| 0 to 2 years | 1.53 | 1.05;2.01 | >0.001 | 0.53 | -0.03;1.09 | 0.062 |
| 2 to 7 years | 0.81 | 0.32;1.29 | 0.001 | -0.11 | -0.65;0.43 | 0.683 |
| 7 to 11 years | 0.67 | 0.19;1.15 | 0.006 | 0.64 | 0.21;1.07 | 0.004 |
| Early old age | | | | 1.99 | 1.30;2.67 | >0.001 |
| BMC, g | | | | | | |
| Birth | 1.76 | 0.08;3.45 | 0.04 | 0.61 | -1.27;2.49 | 0.521 |
| 0 to 2 years | 2.54 | 0.95;4.13 | 0.002 | 0.93 | -1.06;2.93 | 0.356 |
| 2 to 7 years | 2.15 | 0.54;3.75 | 0.009 | 0.68 | -1.27;2.62 | 0.492 |
| 7 to 11 years | 1.20 | -0.38;2.78 | 0.136 | 1.15 | -0.41;2.71 | 0.146 |
| Early old age | | | | 3.18 | 0.72;5.63 | 0.012 |
| aBMD, g/cm² | | | | | | |
| Birth | 0.013 | -0.02;0.05 | 0.427 | 0.005 | -0.03;0.04 | 0.778 |
| 0 to 2 years | 0.017 | -0.01;0.05 | 0.261 | 0.007 | -0.03;0.05 | 0.738 |
| 2 to 7 years | 0.026 | -0.01;0.06 | 0.095 | 0.016 | -0.02;0.05 | 0.398 |
| 7 to 11 years | 0.008 | -0.02;0.04 | 0.587 | 0.008 | -0.02;0.04 | 0.603 |
| Early old age | | | | 0.021 | -0.03;0.07 | 0.379 |

B, unstandardized regression coefficient. B describes increase in the outcome variable per 1-SD greater growth.

Both models are adjusted for length of gestation, age, years since menopause, childhood and adulthood socio-economic status, alcohol intake, smoking, exercise, and estrogen replacement therapy.

Model 1 excludes and Model 2 includes body size at early old age.