Table 2 Regression analysis assessing food environment as a predictor of bone health in the total sample

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| --- | --- | --- | --- |
|   | **Bone Mineral Density** | **Bone Mineral Content – adjusted for bone area, height and weight** | **Bone Mineral Content - adjusted for bone area & confounders1** |
| **Number within LSOA** | **Infant** | **4 year** | **6 year** | **Infant** | **4 year** | **6 year** | **Infant** | **4 year** | **6 year** |
| **Fast food outlets** |   |   |   |   |   |   |   |   |   |
| Beta | -0.23\*\* | -0.03 | -0.01 | -0.14 | -0.07 | 0.01 | -0.17\* | -0.02 | 0.04 |
| 95% C.I | (-0.38,-0.08) | (-0.22,0.17) | (-0.17,0.14) | (-0.29,0.01) | (-0.26,0.13) | (-0.14,0.17) | (-0.32,-0.02) | (-0.22,0.18) | (-0.12,0.19) |
| p-value | <0.01 | 0.78 | 0.87 | 0.07 | 0.49 | 0.88 | 0.03 | 0.85 | 0.66 |
|  |  |  |  |  |  |  |  |  |  |
| **Healthy specialty stores**  |  |  |  |  |  |  |  |  |  |
| Beta | -0.03 | 0.16\* | 0.13 | 0.04 | 0.16 | 0.14 | 0.00 | 0.17\* | 0.11 |
| 95% C.I | (-0.18,0.11) | (-0.00,0.32) | (-0.01,0.26) | (-0.10,0.19) | (-0.01,0.32) | (0.01,0.28) | (-0.14,0.15) | (0.00,0.33) | (-0.03,0.24) |
| p-value | 0.67 | 0.05 | 0.06 | 0.58 | 0.06 | 0.03 | 0.98 | 0.05 | 0.12 |
|   |  |  |  |  |  |  |  |  |  |
| **Supermarkets**  |  |  |  |  |  |  |  |  |  |
|  Beta | -0.05 | 0.13 | 0.03 | -0.03 | 0.09 | 0.02 | -0.03 | 0.10 | -0.03 |
|  95% C.I | (-0.17,0.08) | (-0.01,0.28) | (-0.10,0.15) | (-0.10,0.15) | (-0.05,0.24) | (-0.11,0.15) | (-0.15,0.10) | (-0.05,0.25) | (-0.15,0.10) |
|  p-value | 0.48 | 0.08 | 0.69 | 0.68 | 0.21 | 0.72 | 0.68 | 0.18 | 0.69 |
|  |  |  |  |  |  |  |  |  |  |

1 Confounding variables included: neighbourhood deprivation, maternal smoking status, maternal physical activity levels, maternal diet score, maternal body mass index (BMI) and child gender; infant models additionally adjusted for gestational age and age at scan; 6 year models additionally adjusted for age at scan. \*p<0.05, \*\*p<0.01, \*\*\*p<0.001

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