Title: Are environmental area characteristics at birth associated with overweight and obesity in school-aged children? Findings from the SLOPE (Studying Lifecourse Obesity PrEdictors) population-based cohort in the south of England

Additional file 1 – Maps for area characteristics and their change over time for 2011 boundaries for Lower layer Super Output Areas
Annual percentage change in greenspace coverage across Hampshire (2006-2016), LSOAs

Legend
Change in greenspace (%)
-4.1 - -1.9
-1.8 - -0.5
-0.4 - -0.1
0.0 - 0.1
0.2 - 0.7

Southampton
Princess Anne Hospital
Authors' own calculations
Walkability index in Hampshire, LSOAs

Legend

Walkability index score

-13.3 - -4.1
-4.0 - -0.9
-0.8 - 2.0
2.1 - 5.1
5.2 - 11.0
Average supermarket density within 800m across Hampshire (2007), LSOAs

Legend

Supermarket density
- 0.0 - 0.4
- 0.5 - 1.2
- 1.3 - 2.4
- 2.5 - 4.3
- 4.4 - 8.8

Authors' own calculations
Annual percentage change in supermarket density across Hampshire (2007-2017), LSOAs

Legend
Change in supermarket density
-0.53 - -0.25
-0.24 - -0.11
-0.10 - -0.04
-0.03 - 0.03
0.04 - 0.26

Authors' own calculations
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Unhealthy food index in Hampshire (2007), LSOAs

Legend

<table>
<thead>
<tr>
<th>Unhealthy food index</th>
</tr>
</thead>
<tbody>
<tr>
<td>-0.8 - 1.6</td>
</tr>
<tr>
<td>1.7 - 4.7</td>
</tr>
<tr>
<td>4.8 - 8.9</td>
</tr>
<tr>
<td>9.0 - 14.4</td>
</tr>
<tr>
<td>14.5 - 24.0</td>
</tr>
</tbody>
</table>

Authors' own calculations

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Change in unhealthy food index in Hampshire (2007-2017), LSOAs

Legend
Change in unhealthy food index
-0.2 - 0.1
0.2 - 0.5
0.6 - 1.0
1.1 - 1.9
2.0 - 3.7

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Average spaces for social interaction density within 800m across Hampshire (2007), LSOAs

Legend

Places for social interaction density
- 0.0 - 2.5
- 2.6 - 5.8
- 5.9 - 10.2
- 10.3 - 16.7
- 16.8 - 33.0

Authors' own calculations

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Annual change in average spaces for social interaction density within 800m across Hampshire (2007-2017), LSOAs

Legend
Change in spaces for social interaction density
-0.7 - -0.2
-0.1 - -0.0
-0.0 - 0.1
0.2 - 0.5
0.6 - 1.7

Princess Anne Hospital
Southampton
Annual average particulate matter (<2.5 µm) in µg/m^3 across Hampshire (2003), LSOAs

Legend

PM2.5 average in µg/m^3

- 13.8 - 14.6
- 14.7 - 15.2
- 15.3 - 15.6
- 15.7 - 16.1
- 16.2 - 16.9

Southampton

Princess Anne Hospital

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Authors’ own calculations
Average change in annual average particulate matter (<2.5 µm) in µg/m^3 across Hampshire (2003-2017), LSOAs

Legend
Change in PM2.5
-0.49 - -0.42
-0.41 - -0.40
-0.39 - -0.36
-0.35 - -0.30
-0.29 - -0.17

Princess Anne Hospital
Southampton

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Authors' own calculations
Annual average particulate matter (<10 µm) in µg/m^3 across Hampshire (2003), LSOAs

Legend
PM10 average in µg/m^3
- 15.5 - 16.8
- 16.9 - 17.6
- 17.7 - 18.4
- 18.5 - 19.2
- 19.3 - 20.8

Authors' own calculations

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Average change in annual average particulate matter (<10 µm) in µg/m^3 across Hampshire (2003-2017), LSOAs

Legend
Change in PM10
-0.47 - -0.36
-0.35 - -0.30
-0.29 - -0.25
-0.24 - -0.18
-0.17 - -0.04

Southampton

Princess Anne Hospital

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Annual average nitrogen oxides in µg/m^3 across Hampshire (2003), LSOAs

Legend

NOx in µg/m^3

- 13.9 - 24.3
- 24.4 - 31.8
- 31.9 - 39.9
- 40.0 - 49.0
- 49.1 - 64.7

Southampton

Princess Anne Hospital

Authors' own calculations

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Average change in annual average nitrogen oxides in µg/m^3 across Hampshire (2003-2017), LSOAs

Legend
Change in NOx
-2.8 - -1.7
-1.6 - -1.3
-1.2 - -0.9
-0.8 - -0.5
-0.4 - 0.9

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