ASSOCIATION BETWEEN OFFSPRING BIRTH WEIGHT AND CORONARY HEART DISEASE: BRITISH REGIONAL HEART STUDY

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Table 1 Association between offspring birth weight and carotid IMT

<table>
<thead>
<tr>
<th></th>
<th>Number with complete data on all variables included in models</th>
<th>Age adjusted regression coefficient logged IMT/kg offspring birth weight</th>
<th>Age and BMI adjusted regression coefficient logged IMT/kg offspring birth weight</th>
<th>Age, BMI, social class and smoking adjusted regression coefficient logged IMT/kg offspring birth weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>483</td>
<td>-0.04 [-0.11 to 0.02]</td>
<td>-0.04 [-0.11 to 0.02]</td>
<td>-0.04 [-0.11 to 0.03]</td>
</tr>
<tr>
<td>Women</td>
<td>267</td>
<td>-0.04 [-0.14 to 0.05]</td>
<td>-0.04 [-0.14 to 0.05]</td>
<td>-0.04 [-0.14 to 0.05]</td>
</tr>
<tr>
<td>Men</td>
<td>202</td>
<td>-0.03 [-0.13 to 0.06]</td>
<td>-0.03 [-0.12 to 0.07]</td>
<td>-0.03 [-0.13 to 0.07]</td>
</tr>
</tbody>
</table>

BMI, body mass index (kg/m²); smoking categorised as never, ex, current; social class derived from longest held social class and classified according to registrar generals classification – I, II, III non-manual, IV, V. In all models robust standard errors were used to calculate 95% confidence intervals taking into account the clustering effect of each town.
in the 1958 cohort compared with 3.35 kg (SD 0.51 kg) for boys in our study, and 3.26 kg (SD 0.43 kg) for girls in the 1958 cohort compared with 3.26 kg (SD 0.54 kg). Our data seem to be representative of the general population, and reported offspring birth weight data seem valid.

Our findings and those of other studies\(^3\) provide epidemiological support for the hypothesis that common genetic factors are important in the association between birth weight and cardiovascular disease. Future research should attempt to identify specific candidate genes.

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**Contributors**

DAL, GDS, and SE developed the idea for this study and SE, PW, GW, and OP set up and organised data collection for the Maidstone Dewsbury cohort. SD and MG undertook the arterial ultrasound scans and ANN interpreted the arterial ultrasound videos. DAL undertook the statistical analysis. DAL wrote the first draft of the paper and all authors have contributed to the final version. All authors act as guarantors.

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**Conflicts of interest:** none.

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Association between offspring birth weight and atherosclerosis in middle aged men and women: British Regional Heart Study

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