Fig. 1S Classifications based on weight gain and birth weight percentiles calculated from the total study population for women with a height of 162-171 cm and their neonates. Details are analogous to the description in the legend to Fig. 1 (in the main paper).

Supplemental Online Figure 1a
Supplemental Online Figure 1b

Mother: 162 – 171 cm • 65 – 80 kg

Weight gain in pregnancy

SGA
AGA
LGA

%< 10th
10th - 90th percentile
> 90th percentile

455,711
458,743
40,471
371,701
43,287

6.1
11.1
18.1

p < 0.001

81.6
81.3
81.1
81.8
77.0

Supplemental Online Figure 1c

Mother: 162 – 171 cm • 81 – 96 kg

Weight gain in pregnancy

SGA
AGA
LGA

< 10th percentile
10th-90th percentile
> 90th percentile

Weight gain (3 groups)

Supplemental Online Figure 1d

Mother: 162 – 171 cm • ≥ 97 kg

<table>
<thead>
<tr>
<th>Weight gain in pregnancy</th>
<th>Somatic classification</th>
<th>Weight gain (3 groups)</th>
</tr>
</thead>
<tbody>
<tr>
<td>37,751</td>
<td>38,179</td>
<td></td>
</tr>
<tr>
<td>58.8</td>
<td>72.5</td>
<td>76.3</td>
</tr>
<tr>
<td>36.1</td>
<td>6.3</td>
<td>7.3</td>
</tr>
<tr>
<td>5.1 (&gt;90th)</td>
<td>21.2 (10th-90th percentile)</td>
<td>16.4 (10th percentile)</td>
</tr>
<tr>
<td>13,606</td>
<td>22,200</td>
<td>1,908</td>
</tr>
<tr>
<td>23.3 (90th percentile)</td>
<td>64.4 (&gt;90th percentile)</td>
<td></td>
</tr>
</tbody>
</table>

p < 0.001
Fig. 2S Classifications based on weight gain and birth weight percentiles calculated from the total study population for women with a height ≥172 cm and their neonates. Details are analogous to the description in the legend to Fig. 1 (in the main paper).

Supplemental Online Figure 2a

Weight gain in pregnancy

Mother: ≥172 cm • ≤73 kg

<table>
<thead>
<tr>
<th>Weight gain (3 groups)</th>
<th>SGA</th>
<th>AGA</th>
<th>LGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 10th percentile</td>
<td>3.3</td>
<td>6.6</td>
<td>3.9</td>
</tr>
<tr>
<td>10th–90th percentile</td>
<td>85.9</td>
<td>82.0</td>
<td>76.7</td>
</tr>
<tr>
<td>&gt; 90th percentile</td>
<td>10.8</td>
<td>11.4</td>
<td>19.4</td>
</tr>
</tbody>
</table>
Supplemental Online Figure 2b

Mother: ≥ 172 cm • 74 – 89 kg

Weight gain in pregnancy

Weight gain (3 groups)

SGA
AGA
LGA

Supplemental Online Figure 2c

Mother: ≥ 172 cm • 90 – 105 kg

Weight gain in pregnancy

< 10th percentile

10th – 90th percentile

> 90th percentile

Weight gain (3 groups)

**Fig. 3S** Classifications based on weight gain and birth weight percentiles calculated specifically for the maternal height and weight groups in question for women with a height of 162-171 cm and their neonates. Details are analogous to the description in the legend to Fig. 1 (in the main paper).

**Supplemental Online Figure 3a**

Mother: 162 – 171 cm • ≤ 64 kg

![Graph showing weight gain and birth weight percentiles for maternal height and weight groups.](image)
Supplemental Online Figure 3b

Mother: 162 – 171 cm • 65 – 80 kg

Weight gain in pregnancy

- <10th percentile: 8.2%
- 10th-90th percentile: 83.3%
- >90th percentile: 8.5%

Somatic classification

- <10th percentile: 9.8%
- 10th-90th percentile: 80.4%
- >90th percentile: 9.8%

Weight gain (3 groups)

- <10th percentile: 16.8%
- 10th-90th percentile: 78.2%
- >90th percentile: 9.6%

Weight gain in pregnancy:

- SGA: 37,374
- AGA: 379,341
- LGA: 38,722

Significance: p < 0.001
Supplemental Online Figure 3c

Mother: 162 – 171 cm • 81 – 96 kg

<table>
<thead>
<tr>
<th>Weight gain in pregnancy</th>
<th>Somatic classification</th>
<th>Weight gain (3 groups)</th>
</tr>
</thead>
<tbody>
<tr>
<td>111,929</td>
<td>82.5</td>
<td>8.4 &lt;10th</td>
</tr>
<tr>
<td>112,777</td>
<td>80.4</td>
<td>9.7 10th-90th percentile</td>
</tr>
<tr>
<td>9,454</td>
<td>79.4</td>
<td>15.4 &lt;10th percentile</td>
</tr>
<tr>
<td>92,197</td>
<td>80.9</td>
<td>9.4 10th – 90th percentile</td>
</tr>
<tr>
<td>10,213</td>
<td>76.8</td>
<td>7.2 &gt; 90th percentile</td>
</tr>
</tbody>
</table>

p < 0.001
Supplemental Online Figure 3d

Mother: 162 – 171 cm • ≥ 97 kg

Weight gain in pregnancy

<table>
<thead>
<tr>
<th>SGA</th>
<th>AGA</th>
<th>LGA</th>
</tr>
</thead>
<tbody>
<tr>
<td>37,751</td>
<td>38,179</td>
<td>3,262</td>
</tr>
</tbody>
</table>

Somatic classification

<table>
<thead>
<tr>
<th>&lt; 10th percentile</th>
<th>10th – 90th percentile</th>
<th>&gt; 90th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.6</td>
<td>9.7</td>
<td>15.4</td>
</tr>
<tr>
<td>82.6</td>
<td>80.5</td>
<td>79.0</td>
</tr>
<tr>
<td>9.8</td>
<td>9.6</td>
<td>81.1</td>
</tr>
<tr>
<td>8.8</td>
<td>9.3</td>
<td>6.9</td>
</tr>
</tbody>
</table>

Weight gain (3 groups)

p < 0.001
Fig. 4S Classifications based on weight gain and birth weight percentiles calculated specifically for the maternal height and weight groups in question for women with a height ≥172 cm and their neonates. Details are analogous to the description in the legend to Fig. 1 (in the main paper).

Supplemental Online Figure 4a

Supplemental Online Figure 4b

Mother: ≥ 172 cm • 74 – 89 kg

Weight gain in pregnancy

<table>
<thead>
<tr>
<th>Group</th>
<th>&lt;10th</th>
<th>10th-90th percentile</th>
<th>&gt;90th</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGA</td>
<td>8.4</td>
<td>9.5</td>
<td>16.4</td>
</tr>
<tr>
<td>AGA</td>
<td>83.0</td>
<td>80.0</td>
<td>78.3</td>
</tr>
<tr>
<td>LGA</td>
<td>129,110</td>
<td>129,956</td>
<td>10,886</td>
</tr>
</tbody>
</table>

Weight gain (3 groups)

<table>
<thead>
<tr>
<th>&lt;10th percentile</th>
<th>10th – 90th percentile</th>
<th>&gt; 90th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGA</td>
<td>10,886</td>
<td>107,063</td>
</tr>
<tr>
<td>AGA</td>
<td>80.5</td>
<td>80.5</td>
</tr>
<tr>
<td>LGA</td>
<td>11,114</td>
<td>11,114</td>
</tr>
</tbody>
</table>

p < 0.001
Supplemental Online Figure 4c

Mother: ≥ 172 cm • 90 – 105 kg

Weight gain in pregnancy

<table>
<thead>
<tr>
<th>Weight gain in pregnancy</th>
<th>Somatic classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 10th percentile</td>
<td>8.4%</td>
</tr>
<tr>
<td>10th – 90th percentile</td>
<td>9.7%</td>
</tr>
<tr>
<td>&gt; 90th percentile</td>
<td>82.3%</td>
</tr>
</tbody>
</table>

P < 0.001

Weight gain (3 groups)

<table>
<thead>
<tr>
<th>&lt; 10th percentile</th>
<th>10th – 90th percentile</th>
<th>&gt; 90th percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,128</td>
<td>30,447</td>
<td>3,432</td>
</tr>
</tbody>
</table>

Supplemental Online Figure 4d

Mother: ≥ 172 cm • ≥ 106 kg

Weight gain in pregnancy

SGA
AGA
LGA

%

< 10th
10th – 90th percentile
> 90th percentile

Weight gain (3 groups)