

Supplementary table 1: Random effects linear regression analysis of the association between birth weight z-scores and BMI z-scores at age 5 months, 12 months and 7 years of age by educational group at birth, The DNBC 1996-2010, $n= 85,062$. The estimates represent birth weight for gestational age z-scores, BMI z-scores and 95% Confidence intervals

Socio-economic characteristics	Boys birth	Boys 5 months	Boys 12 months	Boys 7 years	Girls birth	Girls 5 months	Girls 12 months	Girls 7 years
Maternal education								
<10 years	-0.199 (-0.230;-0.169)	0.025 (-0.016; 0.066)	0.002 (-0.041; 0.044)	0.198 (0.154; 0.242)	-0.198 (-0.229; -0.167)	0.003 (-0.040; 0.045)	0.017 (-0.027; 0.061)	0.218 (0.173; 0.264)
10-12 years	-0.050 (-0.070;-0.030)	0.007 (-0.019; 0.032)	0.029 (0.003; 0.056)	0.102 (0.075; 0.129)	-0.075 (-0.095; -0.054)	0.009 (-0.017; 0.035)	0.010 (-0.017; 0.036)	0.097 (0.070; 0.125);
> 12 years/ ref.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Test for trend</i>	$p < 0.0001$	$p = 0.48$	$p = 0.07$	$p < 0.0001$	$p < 0.0001$	$p = 0.78$	$p = 0.67$	$p < 0.0001$
Paternal education								
<10 years	-0.156 (-0.184; -0.127)	0.023 (-0.014; 0.060)	0.025 (-0.014; 0.063)	0.232 (0.193; 0.272)	-0.164 (-0.194; -0.135)	0.012 (-0.027; 0.050)	0.053 (0.013; 0.092)	0.223 (0.182; 0.264)
10-12 years	-0.063 (-0.084; -0.042)	0.002 (-0.025; 0.028)	0.003 (-0.025; 0.031)	0.124 (0.096; 0.152)	-0.075 (-0.096; -0.053)	-0.003 (-0.030; 0.024)	0.014 (-0.014; 0.042)	0.110 (0.081; 0.138)
> 12 years/ ref.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Test for trend</i>	$p < 0.0001$	$p = 0.42$	$p = 0.43$	$p < 0.0001$	$p < 0.0001$	$p = 0.72$	$p = 0.03$	$p < 0.0001$

Supplementary table 2a: Distribution of income by educational groups, the DNBC 1996-2010, n=85,062

Maternal education				
Household income quintiles*	<10 years	10-12 years	> 12 years	Total %
< 20	39.7	19.6	11.4	18.9
20 - < 40	25.2	22.3	15.6	20.1
40 - < 60	17.3	21.6	19.3	20.1
60 - < 80	12.0	20.5	23.0	20.4
>80.	5.8	16.0	31.0	20.4
Total %	100	100	100	100
<i>p-value/χ²</i>				<i><0.0001</i>

* Calculated as an average over the years 1997-2003

Supplementary table 2b: Distribution of education by income groups, the DNBC 1996-2010, n=85,062

Household income quintiles*						
Maternal education	< 20	20 - < 40	40 - < 60	60 - < 80	>80	Total %
<10 years	27.0	16.1	11.0	7.6	3.7	12.9
10-12 years	50.6	54.3	52.5	49.4	38.5	49.0
> 12 years	22.4	29.6	36.5	43.1	57.9	38.1
Total %	100	100	100	100	100	100
<i>p-value/χ²</i>						<i><0.0001</i>

* Calculated as an average over the years 1997-2003