Appendix Report

The Social Cost of Childhood Overweight and Obesity – Results on Health Care Usage, Well-Being, Education, and Labor Market Outcomes Until the age of 21





Tine M. Eriksen, Jane Greve, Matvei Andersen, and Mette T. Jensen

Appendix Report – Results on Health Care Usage, Well-Being, Education, and Labor Market Outcomes Until the age of 21

© VIVE and the authors, 2024 e-ISBN: 978-87-7582-330-7 Project: 301963 Financed by: Novo Nordisk Foundation

VIVE

The Danish Center for Social Science Research Herluf Trolles Gade 11 DK-1052 København K, Denmark www.vive.dk

VIVE's publications may be freely quoted, provided the source is clearly stated.

Table of Contents

1		Appendix	4
	1.1	Appendix 1: Calculation of costs	4
	1.2	Appendix 3: Elementary school children	31

1 Appendix

1.1 Appendix 1: Calculation of costs

Detailed description of the calculation of the monetary costs of childhood obesity

Part of the analysis is focused on calculating population-level costs in health care usage and social transfers. All costs are calculated in DKK and adjusted to 2015 prices. The calculations are based on a two-part model: In the first part, we estimate the probability of having any costs (the extensive margin), in the second part we estimate the average costs for those who have any costs (the intensive margin). All models are estimated as relative differences to normal-weight children and are calculated by adding mean of normal weight and model estimate. The second part is estimated on a log-transformed dependent variable of the costs. The log-transformation limits the impact of outliers in the cost variables. The coefficients from the two-part model are estimated in percentages. They are multiplied by the average costs to get a cost-estimate per person with any costs. These estimates from the two-part model are multiplied to get the per-person costs. This per-person cost can then be multiplied for any group to get the group-level aggregate costs. We use an approximation of an average cohort of 60,000 and the population level-shares of overweight and obesity (see Report Table 4.1) to calculate the populations of overweight and obese children. Multiplying the per-person cost on these populations gives the population-level costs.

To illustrate the calculation of the monetary costs, we provide an example in Table 1.1 for the social income transfers at age 21 for obese children based on the OLS model, see also Report Section 4.5. Corresponding costs can be calculated using the estimates from the fixed-effects models.

The OLS estimates present the percentage point differences relative to normal weight and must therefore be added to the means of normal weight. The share of normal weight children who have any social transfers is 10.19%, and for those who have social transfers the average cost is DKK 45,813. The part-one model estimate for obese children is 8.82 pp (higher probability of having social transfers) and 21.69% (higher social transfers costs). Adding up based on means of normal-weight children, obese children have a 19.01% probability of having any social transfers, and conditional on having social transfers the average costs are DKK 55,749. Multiplying the extensive and intensive margin

to get the per-person costs per weight classification, and taking the difference between estimated costs of being normal weight and obese, the average cost of obesity per person is DKK 5,931. Given that 3.8% of a cohort is obese, this is 2,287 obese children, who have a combined societal cost in social transfers per anno of DKK 13.6 million.

Table 1.1 Calculation method of two-part model

Description	Calculation	Result					
Model part 1: Extensive margin							
OLS estimate on extensive margin for obese in pp: 8.882							
Mean with any social transfers for normal weigh	t children: 10.19%						
Extensive margin: probability of having any social transfers (%)	10.19 + 8.82	19.01					
Model part 2: Intensive margin							
OLS estimate on intensive margin for obese in p	ercent: 21.69						
Mean social transfers for normal weight children	n: DKK 45,813						
Intensive margin: average costs per person conditional on having any costs	DKK 45,813 * (1 + 0.21)	DKK 55,749					
Difference between normal-weight child and obese child conditional on any costs	DKK 55,749 – DKK 45,813 = DKK 9,936						
Per-person cost: Extensive x intensive margin							
Per-person cost for normal weight: 0.1019 * DKk	K 45,813 = DKK 4,668						
Per-person cost for obese children: Extensive margin x intensive margin	0.1901 * DKK 55,749	DKK 10,599					
Difference in per-person costs: cost of obe- sity per person	DKK 10,599 – DKK 4,668	DKK 5,931					
Societal cost							
Share of obese children in population: 3.8%							
Obese children in average cohort of 60,000: 0.0	38 * 60,000 = 2,287						
Total societal cost in social transfers for obe- sity	2,287 * DKK 5,931	DKK 13,564,715					

Table 1.2 Definitions of variables in conditioning set

Variable	Description
Child characteristics	
Female	Indicator variable equal to 1 if the child is female and 0 if the child is male.
Native (reference category in the analyses)	Indicator equal to 1 if the child is born in Denmark and at least 1 of the parents are born in Denmark and have Danish citizenship and 0 otherwise

Variable	Description
Immigrant	Indicator equal to 1 if the child is not born in Denmark and neither parent both has Danish citizenship and is born in Denmark and zero otherwise
Descendant	Indicator equal to 1 if the child is born in Denmark and neither parent both has Danish citizenship and is born in Denmark and 0 otherwise.
1 st born ^a (reference category in the analyses)	Indicator equal to 1 if the child is first born and 0 otherwise.
2 nd born ^a	Indicator equal to 1 if the child is 2 nd born and 0 otherwise.
3 rd born ^a	Indicator equal to 1 if the child is 3 rd born and 0 otherwise.
4 th or higher ^a	Indicator equal to 1 if the child is 4^{th} born or higher and 0 otherwise.
Has a father	Indicator equal to 1 if a father is registered in the population registry.
Birth weight	The child's birthweight in grams registered in the Danish birth regis- try.
Birth length	The child's birth length in cm registered in the Danish birth registry.
Missing birth weight	An indicator equal to 1 if the birthweight is missing and 0 otherwise.
Missing birth length	Indicator equal to 1 if the birth length is missing and 0 otherwise.
Psychiatric diagnosis before age 8 ª	Indicator equal to 1 if the child has received a behavioral or mental di- agnosis (F-diagnosis according to the International Classification of Disease -10 th revision) before it turns 8 years and 0 otherwise.
Psychotropic medication be- fore age 8 ^a	Indicator equal to 1 if the child has received a prescription for psy- chotropic medication (ATC=N) before it turns 8 years and 0 other- wise.
Hospital contacts before age 8 ^a	Number of distinct records of all types in the National Patient Regis- ter before a child turns 8 years of age. 0 if no contacts.
Hospitalizations before age 8 ^a	Number of distinct records of type 'inpatient' in the National Patient Register before a child turns 8 years. 0 if no contacts.
Mother characteristics	
Age at birth	Mother's age at the birth of the child.
Psychiatric diagnosis ^a	Indicator equal to 1 if the mother has received a behavioral or mental diagnosis (F-diagnosis according to the International Classification of Disease – 10 th revision) before the child turns 8 years and 0 otherwise.
Single ^a	Indicator equal to one if the mother is not registered as cohabiting or married/registered with any partner in the year the child turned 7 years and 0 otherwise.
Cohabiting with partner ^a	Indicator equal to 1 if the mother is registered as cohabiting with a partner in the year the child turned 7 years and 0 otherwise.
Married ^a (reference category in the analyses)	Indicator equal to 1 if the mother is married or in a registered partner- ship in the year the child turned 7 years and 0 otherwise.
Education level above high school ^a	Indicator equal to 1 if the mother is registered with an educational level above high school in the year the child turned 7 years and 0 otherwise.
Log of total income ^a	Log-transformation of total after-tax income registered according to the Income Statistics Register in the year the child turns 7 years. Consists of all types of income: wage income, social transfers, self- employed, etc. 0 for those with no income or missing income.
Unemployed at age 7 ^a	Indicator equal to 1 if the mother is registered as unemployed in No- vember of the year the child turns 7 years and 0 otherwise.

Variable	Description
Not in labor force at age 7 °	Indicator equal to 1 if the mother is registered as being out of the la- bor force in November of the year the child turns 7 years and 0 oth- erwise.
Weeks of unemployment ben- efits per year, age 0-7 ^a	Yearly average number of weeks the mother has received unemploy- ment benefits, average over the years from the child's birth until it turns 7 years.
Weeks of social assistance per year, age 0-7 $^{\rm a}$	Yearly average number of weeks the mother has received social as- sistance, average over the years from the child's birth until it turns 7 years.
Missing at age 7 ^ª	Indicator equal to 1 if the mother is missing in the registries the year the child turns 7 years and 0 otherwise
Missing income at age 7 ª	Indicator equal to 1 if the mother is not observed in the income regis- ter the year the child turns 7 years and 0 otherwise.
Father characteristics	
Age at birth	Father's age at the birth of the child
Psychiatric diagnosis ^a	Indicator equal to 1 if the father has received a behavioral or mental diagnosis (F-diagnosis according to the International Classification of Disease – 10 th revision) before the child turns 8 years and 0 otherwise.
Education level above high school ^a	Indicator equal to 1 if the father is registered with an educational level above high school in the year the child turned 7 years and 0 otherwise.
Log of total income ^a	Log-transformation of total after-tax income registered according to the Income Statistics Register in the year the child turns 7 years. Consists of all types of income: wage income, social transfers, self- employed, etc., 0 for those with no income or missing income.
Unemployed at age 7 ^a	Indicator equal to 1 if the father is registered as unemployed in No- vember of the year the child turns 7 years and 0 otherwise.
Not in labor force at age 7 ^a	Indicator equal to 1 if the father is registered as being out of the labor force in November of the year the child turns 7 years and 0 otherwise.
Weeks of unemployment ben- efits per year, age 0-7 ^a	Yearly average number of weeks the father has received unemploy- ment benefits, average over the years from the child's birth until it turns 7 years.
Weeks of social assistance per year, age 0-7 ^a	Yearly average number of weeks the father has received social assis- tance, average over the years from the child's birth until it turns 7 years.
Missing at age 7 ª	Indicator equal to 1 if the father is missing in the registries the year the child turns 7 years and 0 otherwise
Missing income at age 7 ª	Indicator equal to 1 if the father is not observed in the income register the year the child turns 7 years and 0 otherwise.
No registry information ^a	Indicator equal to 1 if child has no link to father, so that no registry in- formation on the father exists, and 0 otherwise.

Notes: ^a For the elementary school sample, the variable is measured at or up until age 5.Appendix 2: Lower secondary school children.

	Coefficient	SE
Female	-0.01***	(0.00)
Immigrant	0.02***	(0.01)
Descendant	0.04***	(0.00)
Ref. group first born		
2 nd born	-0.01***	(0.00)
3 rd born	-0.02***	(0.00)
4 th or higher	-0.03***	(0.00)
Has a father	-0.06**	(0.02)
Birth weight	-0.01***	(0.00)
Birth length	0.00**	(0.00)
Missing birth weight	-0.04***	(0.01)
Missing birth length	0.04*	(0.02)
Psychiatric diagnosis before age 8	-0.05***	(0.00)
Psychotropic medication before age 8	-0.01***	(0.00)
Hospital contacts before age 8	-0.00***	(0.00)
Hospitalizations before age 8	0.00***	(0.00)
Mother characteristics		
Age at birth	0.00***	(0.00)
Psychiatric diagnosis	-0.01***	(0.00)
Immigrant/descendant	-0.00	(0.00)
Single	-0.00	(0.00)
Cohabiting with partner	0.02***	(0.00)
Education level above high school	0.01***	(0.00)
Log of total income	0.00***	(0.00)
Unemployed at age 7	-0.01***	(0.00)
Not in labor force at age 7	-0.01***	(0.00)
Weeks of unemployment benefits per year, age 0-7	-0.00	(0.00)
Weeks of social assistance per year, age 0-7	-0.00***	(0.00)
Missing at age 7	0.02	(0.06)
Missing income at age 7	-0.06	(0.06)

Table 1.3 Representativity of analysis sample with BMI measure

	Coefficient	SE
Father characteristics		
Age at birth	0.00**	(0.00)
Psychiatric diagnosis	-0.01***	(0.00)
Immigrant/descendant	-0.00	(0.00)
Education level above high school	0.01***	(0.00)
Log of total income	0.00***	(0.00)
Unemployed at age 7	-0.00	(0.00)
Not in labor force at age 7	-0.01**	(0.00)
Weeks of unemployment benefits per year, age 0-7	-0.00***	(0.00)
Weeks of social assistance per year, age 0-7	-0.00	(0.00)
Missing at age 7	0.04	(0.05)
Missing income at age 7	-0.03	(0.05)
No registry information	-0.06*	(0.02)
Constant	0.80***	(0.03)
Ν	545,254	
R-squared	0.24	

Notes: Regression of BMI measure dummy (whether child has a measurement or not) on conditioning set in full lower secondary school population. Including school start year and birth year fixed effects. Robust standard errors in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: Registry data from Statistics Denmark.

	Und	erweight	Norma	Normal weight		Overweight		
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Father characte	ristics							
Age at birth	32.56***	(5.63)	32.19	(5.62)	31.95***	(5.96)	31.81***	(6.20)
Psychiatric di- agnosis	0.05	(0.22)	0.05	(0.23)	0.07***	(0.26)	0.09***	(0.28)
Education level above high school	0.75***	(0.43)	0.74	(0.44)	0.64***	(0.48)	0.55***	(0.50)
Total income in 10,000s	28.56**	(34.14)	27.59	(71.47)	24.14***	(31.21)	21.13***	(17.56)
Unemployed at age 7	0.02	(0.16)	0.02	(0.15)	0.03***	(0.18)	0.04***	(0.21)
Not in labor force at age 7	0.09**	(0.29)	0.10	(0.30)	0.14***	(0.34)	0.18***	(0.38)
Weeks of so- cial assistance per year, age 0-7	1.97	(7.65)	1.93	(7.48)	3.16***	(9.46)	4.71***	(11.39)
Ν	29,360		249,116		49,242		12,707	

Notes: Selected relevant characteristics of the sample split by weight class. Test of differences in means by t-tests with reference to normal weight. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: Own calculations based on Danish Registry Data.

Table 1.5 Descriptive statistics on full sample and sibling sample

	Full sample Sibling sample		Test of difference in means between sib- lings and non-sib- lings		
	Mean	SD	Mean	SD	Difference
Female	0.49	(0.50)	0.49	(0.50)	0.00
Immigrant	0.03	(0.17)	0.03	(0.16)	0.00***
Descendant	0.08	(0.27)	0.09	(0.29)	-0.02***
Has father	0.98	(0.12)	0.99	(0.09)	-0.01***
First child	0.44	(0.50)	0.39	(0.49)	0.10***
Birth weight in grams	3,505	(600)	3,482	(623)	39.23***
Birth length in cm	51.93	(2.76)	51.83	(2.85)	0.17***

	Full sample		Sibling s	ample	Test of difference in means between sib- lings and non-sib- lings
	Mean	SD	Mean	SD	Difference
Psychiatric diagnosis be- fore age 8	0.02	(0.15)	0.02	(0.14)	0.00***
Hospital contacts before age 8	4.56	(4.82)	4.48	(4.64)	0.13***
Age of BMI measurement	14.45	(0.99)	14.41	(1.00)	0.06***
Mother characteristics					
Age at birth	29.45	(4.84)	29.13	(4.53)	0.56***
Psychiatric diagnosis	0.08	(0.26)	0.06	(0.25)	0.02***
Cohabiting with partner	0.77	(0.42)	0.80	(0.40)	-0.05***
Education level above high school	0.72	(0.45)	0.73	(0.44)	-0.02***
Total income in 10,000s	23.19	(13.79)	23.53	(11.23)	-0.57***
Unemployed at age 7	0.03	(0.18)	0.04	(0.18)	-0.00
Not in labor force at age 7	0.17	(0.38)	0.18	(0.38)	-0.01***
Weeks of social assistance per year, age 0-7	4.15	(11.58)	4.46	(12.26)	-0.53***
Father characteristics					
Age at birth	32.18	(5.70)	31.86	(5.34)	0.54***
Psychiatric diagnosis	0.06	(0.23)	0.05	(0.22)	0.01***
Education level above high school	0.72	(0.45)	0.73	(0.44)	-0.03***
Total income in 10,000s	26.94	(63.24)	27.45	(46.64)	-0.87***
Unemployed at age 7	0.03	(0.16)	0.03	(0.16)	0.00
Not in labor force at age 7	0.11	(0.31)	0.10	(0.30)	0.01***
Weeks of social assistance per year, age 0-7	2.22	(8.01)	2.38	(8.42)	-0.29***
Ν	340,425		140,830		340,425

Notes: Descriptive statistics of means and standard deviations for full sample and sibling sample. Simple t-tests of means between sibling sample and non-sibling sample. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables for education

	All		All Girls			Boys		
	OLS	FE	OLS	FE	OLS	FE		
Underweight	-0.68 ^{***} (0.14)	-0.46* (0.25)	-0.34** (0.17)	-0.35 (0.44)	-1.02*** (0.21)	-0.60 (0.59)		
Overweight	-1.11*** (0.12)	-0.29 (0.24)	-0.86*** (0.15)	0.48 (0.44)	-1.36*** (0.17)	-0.44 (0.47)		
Obese	-4.31*** (0.27)	-2.19 ^{***} (0.59)	-3.76*** (0.39)	-1.41 (1.22)	-4.75*** (0.37)	-3.40*** (1.11)		
Ν	340,425	140,830	165,891	35,937	174,534	39,652		
R-squared	0.058	0.613	0.049	0.633	0.066	0.625		
Adjusted R- squared	0.058	0.255	0.048	0.279	0.066	0.264		
Number of clusters		67,624		17,590		19,382		
Mean of normal weight	95.48	95.89	96.01	96.13	94.98	95.49		

Table 1.6 Sat 9th grade exit exams

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child attended the 9th grade exit exam or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations, and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.</p>

Source: VIVE.

Table 1.7Sat 9th grade exit exams. By SES.

	Low S	Low SES		High SES		
	OLS	FE	OLS	FE		
Underweight	0.04 ^{***} (0.01)	-0.00 (0.02)	0.04 ^{***} (0.01)	0.00 (0.01)		
Overweight	-0.19 ^{***} (0.01)	-0.06*** (0.02)	-0.26*** (0.01)	-0.09 ^{***} (0.01)		
Obese	-0.37*** (0.01)	-0.13 ^{***} (0.03)	-0.50 ^{***} (0.01)	-0.20 ^{***} (0.03)		
Ν	86,859	31,663	235,887	95,112		
R-squared	0.192	0.747	0.155	0.737		
Adjusted R-squared	0.192	0.516	0.155	0.489		
Number of clusters		15,041		45,988		

	Low SES		High SES	
	OLS	FE	OLS	FE
Mean of normal weight	-0.27	-0.26	0.23	0.28

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child attended the 9th -grade exit exams or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations, and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.8 Standardized 9th grade GPA

	All		Girls	Girls		Boys	
	OLS	FE	OLS	FE	OLS	FE	
Underweight	0.04*** (0.01)	0.00 (0.01)	0.05 ^{***} (0.01)	-0.01 (0.02)	0.02*** (0.01)	0.01 (0.02)	
Overweight	-0.24*** (0.00)	-0.08*** (0.01)	-0.25 ^{***} (0.01)	-0.08 ^{***} (0.02)	-0.23*** (0.01)	-0.06*** (0.02)	
Obese	-0.45 ^{***} (0.01)	-0.17*** (0.02)	-0.49*** (0.01)	-0.21*** (0.04)	-0.42*** (0.01)	-0.13*** (0.03)	
Ν	322,746	130,052	158,427	33,392	164,319	36,191	
R-squared	0.210	0.754	0.209	0.770	0.174	0.757	
Adjusted R- squared	0.209	0.526	0.208	0.549	0.173	0.523	
Number of clusters		62,558		16,345		17,714	
Mean of normal weight	0.10	0.15	0.27	0.32	-0.05	-0.00	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the standardized 9th grade GPA for the child on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.9Standardized 9th grade GPA, by SES

	Low SES		High SES		
	OLS	FE	OLS	FE	
Underweight	0.04 ^{***} (0.01)	-0.00 (0.02)	0.04*** (0.01)	0.00 (0.01)	

	Low SES		High SI	ES
Overweight	-0.19 ^{***} (0.01)	-0.06*** (0.02)	-0.26 ^{***} (0.01)	-0.09 ^{***} (0.01)
Obese	-0.37*** (0.01)	-0.13 ^{***} (0.03)	-0.50*** (0.01)	-0.20*** (0.03)
Ν	86,859	31,663	235,887	95,112
R-squared	0.192	0.747	0.155	0.737
Adjusted R-squared	0.192	0.516	0.155	0.489
Number of clusters		15,041		45,988
Mean of normal weight	-0.27	-0.26	0.23	0.28

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the standardized 9th grade GPA for the child on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.10Total absence in 9th grade

	All		Girls	i	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.16 ^{***} (0.05)	0.03 (0.10)	-0.29*** (0.07)	0.20 (0.16)	-0.03 (0.07)	-0.07 (0.20)
Overweight	0.89*** (0.05)	0.19 ^{**} (0.10)	0.84 ^{***} (0.07)	0.24 (0.20)	0.94 ^{***} (0.06)	0.25 (0.17)
Obese	2.44 ^{***} (0.11)	1.01 ^{***} (0.22)	2.39 ^{***} (0.17)	0.81* (0.48)	2.47 ^{***} (0.14)	1.29*** (0.36)
Ν	241,657	87,528	115,440	21,940	126,217	25,478
R-squared	0.058	0.629	0.060	0.641	0.058	0.648
Adjusted R- squared	0.058	0.283	0.060	0.294	0.057	0.307
Number of clusters		42,140		10,738		12,466
Mean of normal weight	5.83	5.34	5.98	5.33	5.69	5.24

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total absence in 9th grade for the child on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.11Total absence in 9th grade. By SES.

Low SES		High SES	
OLS	FE	OLS	FE

	Low SE	S	High	SES
Underweight	-0.11 (0.13)	-0.20 (0.26)	-0.18 ^{***} (0.05)	0.09 (0.10)
Overweight	0.88 ^{***} (0.09)	0.10 (0.19)	0.90*** (0.05)	0.22** (0.11)
Obese	2.56*** (0.17)	1.00*** (0.34)	2.32*** (0.13)	1.01*** (0.28)
Ν	70,277	23,871	171,380	61,389
R-squared	0.051	0.631	0.042	0.620
Adjusted R-squared	0.051	0.294	0.042	0.262
Number of clusters		11,330		29,750
Mean of normal weight	7.10	6.53	5.35	4.88

Notes:The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling
FE regressions of total absence in 9th grade for the child on weight classification. Covariates are measured at age 7 or
earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS
estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.</td>

Source: VIVE.

Table 1.12 High school enrollment by age 18

	All		Girls	;	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.12 (0.24)	-0.53 (0.46)	0.00 (0.29)	-1.13 (0.77)	0.39 (0.38)	-0.28 (0.99)
Overweight	-9.99*** (0.21)	-4.41*** (0.44)	-7.77 ^{***} (0.28)	-3.59 ^{***} (0.83)	-12.23*** (0.32)	-6.13 ^{***} (0.88)
Obese	-21.68*** (0.42)	-7.52 ^{***} (0.94)	-19.34 ^{***} (0.63)	-9.78 ^{***} (1.95)	-23.55*** (0.57)	-7.92 ^{***} (1.75)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.179	0.674	0.165	0.681	0.152	0.693
Adjusted R- squared	0.179	0.372	0.164	0.373	0.152	0.397
Number of clusters		67,624		17,590		19,382
Mean of normal weight	77.49	78.81	84.72	85.69	70.71	72.04

Notes:The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling
FE regressions of an indicator for whether the child enrolled into high school at age 18 or not on weight classification.
Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We
apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations.
* p < 0.1, ** p < 0.05, *** p < 0.01.</td>

Table 1.13	High school enrollment by age 18, by SES
------------	--

	Low SE	ES	High SES		
	OLS	FE	OLS	FE	
Underweight	0.21 (0.53)	-0.20 (1.04)	0.07 (0.26)	-0.51 (0.51)	
Overweight	-8.73*** (0.39)	-3.46*** (0.79)	-10.56*** (0.26)	-4.80*** (0.54)	
Obese	-19.49*** (0.62)	-4.30*** (1.40)	-23.19 ^{***} (0.57)	-10.36*** (1.32)	
Ν	95,106	36,174	245,319	101,007	
R-squared	0.189	0.693	0.136	0.650	
Adjusted R-squared	0.188	0.414	0.136	0.321	
Number of clusters		17,126		48,797	
Mean of normal weight	65.49	66.53	81.70	82.86	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child enrolled into high school at age 18 or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

	All		Girls	i	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	-1.34 ^{***} (0.23)	-0.19 (0.48)	-0.99 ^{***} (0.27)	0.16 (0.79)	-1.83 ^{***} (0.38)	-1.07 (1.05)
Overweight	8.87 ^{***} (0.22)	4.03 ^{***} (0.46)	6.69 ^{***} (0.28)	3.13 ^{***} (0.85)	11.02*** (0.33)	4.95 ^{***} (0.93)
Obese	15.59 ^{***} (0.44)	5.97 ^{***} (1.01)	13.28 ^{***} (0.63)	7.40*** (1.97)	17.44 ^{***} (0.60)	3.39* (1.99)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.089	0.617	0.066	0.620	0.062	0.637
Adjusted R- squared	0.089	0.262	0.065	0.253	0.062	0.288
Number of clusters		67,624		17,590		19,382
Mean of normal weight	20.28	19.48	13.28	12.52	26.83	26.10

Table 1.14 Enrollment into vocational education by age 18

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child enrolled in vocational education at age 18 or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

	Low S	Low SES		SES
	OLS	FE	OLS	FE
Underweight	-1.72*** (0.52)	-0.17 (1.11)	-1.20*** (0.25)	-0.25 (0.53)
Overweight	6.64*** (0.39)	3.14 ^{***} (0.86)	9.83 ^{***} (0.26)	4.40*** (0.56)
Obese	10.91*** (0.65)	1.90 (1.56)	19.01*** (0.58)	9.60*** (1.36)
Ν	95,106	36,174	245,319	101,007
R-squared	0.071	0.598	0.088	0.621
Adjusted R-squared	0.071	0.235	0.087	0.267
Number of clusters		17,126		48,797
Mean of normal weight	27.29	26.85	17.82	17.03

Table 1.15 Enrollment into vocational education by age 18, by SES

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child enrolled into vocational education at age 18 or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations, and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

	All		Girls		Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.85 ^{***} (0.15)	0.52* (0.30)	0.40 ^{**} (0.19)	0.66 (0.52)	1.33 ^{***} (0.24)	0.85 (0.65)
Overweight	2.11 ^{***} (0.13)	0.83 ^{***} (0.29)	2.16 ^{***} (0.18)	0.76 (0.55)	2.08 ^{***} (0.19)	1.01* (0.56)
Obese	7.27 ^{***} (0.32)	2.43 ^{***} (0.69)	7.87 ^{***} (0.48)	3.07** (1.45)	6.80*** (0.43)	3.46 ^{***} (1.32)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.137	0.620	0.129	0.642	0.144	0.637
Adjusted R- squared	0.137	0.268	0.129	0.296	0.144	0.287
Number of clusters		67,624		17,590		19,382
Mean of normal weight	6.22	5.47	5.43	4.93	6.96	6.22

Table 1.16 Not enrolled in upper secondary education by age 18

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has not enrolled into upper secondary education at age 18 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

	Low SES		High SES	
	OLS	FE	OLS	FE
Underweight	1.29 ^{***} (0.40)	0.73 (0.77)	0.71 ^{***} (0.15)	0.43 (0.31)
Overweight	2.72 ^{***} (0.29)	0.73 (0.62)	1.87*** (0.14)	0.91 ^{***} (0.30)
Obese	8.98*** (0.54)	2.72** (1.20)	5.94*** (0.38)	2.10** (0.83)
Ν	95,106	36,174	245,319	101,007
R-squared	0.150	0.641	0.093	0.584
Adjusted R-squared	0.150	0.316	0.093	0.194
Number of clusters		17,126		48,797
Mean of normal weight	12.11	11.42	4.15	3.50

Table 1.17 Not enrolled in upper secondary education by age 18, SES

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has not enrolled into upper secondary education at age 18 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables for mental health

	All		Girls	;	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.43 ^{***} (0.15)	0.51 (0.31)	0.17 (0.22)	1.58** (0.64)	0.71 ^{***} (0.20)	-0.88 (0.58)
Overweight	0.71 ^{***} (0.12)	-0.14 (0.28)	0.82*** (0.19)	-0.37 (0.60)	0.60*** (0.16)	-0.48 (0.48)
Obese	1.56*** (0.24)	0.57 (0.57)	1.81*** (0.41)	-1.56 (1.22)	1.36*** (0.30)	0.83 (0.97)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.029	0.527	0.026	0.540	0.028	0.536
Adjusted R- squared	0.028	0.089	0.026	0.097	0.028	0.091
Number of clusters		67,624		17,590		19,382
Mean of normal weight	5.78	5.11	7.08	6.17	4.56	4.01

Table 1.18 Mental or behavioral diagnosis

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has had a mental or behavioral diagnosis or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.19 Mental or behavioral diagnoses, by SES

	Low SES	;	High SES		
	OLS	FE	OLS	FE	
Underweight	0.95*** (0.33)	1.37* (0.71)	0.26 (0.17)	0.21 (0.34)	
Overweight	0.57** (0.22)	-0.27 (0.52)	0.79 ^{***} (0.15)	0.03 (0.33)	
Obese	1.36*** (0.38)	0.40 (0.92)	1.72 ^{***} (0.32)	0.72 (0.74)	
Ν	95,106	36,174	245,319	101,007	
R-squared	0.040	0.536	0.022	0.523	
Adjusted R-squared	0.040	0.117	0.022	0.077	
Number of clusters		17,126		48,797	

	Low SES		High SES	
	OLS	FE	OLS	FE
Mean of normal weight	6.99	6.15	5.36	4.75

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has had a mental or behavioral diagnosis or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.20 Has psychotropic medication

	All		Girls	;	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.56 ^{***} (0.14)	0.42 (0.28)	0.22 (0.20)	1.03 [*] (0.56)	0.91*** (0.20)	-0.59 (0.53)
Overweight	0.81*** (0.12)	0.33 (0.25)	0.80 ^{***} (0.17)	-0.08 (0.53)	0.82*** (0.15)	0.35 (0.46)
Obese	1.57*** (0.23)	0.61 (0.52)	1.86 ^{***} (0.37)	-1.10 (1.12)	1.34*** (0.29)	0.51 (0.88)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.028	0.545	0.018	0.551	0.040	0.574
Adjusted R- squared	0.028	0.124	0.017	0.118	0.040	0.164
Number of clusters		67,624		17,590		19,382
Mean of normal weight	5.00	4.48	5.54	4.93	4.50	4.04

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has received psychotropic medication or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations, and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.21 Has psychotropic medication, by SES

	Low SES		High SES	
	OLS	FE	OLS	FE
Underweight	1.01*** (0.29)	1.51** (0.61)	0.41** (0.16)	0.11 (0.32)

	Low SES		High SES		
Overweight	1.09 ^{***} (0.21)	0.49 (0.45)	0.66 ^{***} (0.14)	0.22 (0.31)	
Obese	0.83 ^{**} (0.33)	0.70 (0.80)	2.20 ^{***} (0.32)	0.54 (0.71)	
Ν	95,106	36,174	245,319	101,007	
R-squared	0.040	0.551	0.023	0.544	
Adjusted R-squared	0.040	0.144	0.023	0.117	
Number of clusters		17,126		48,797	
Mean of normal weight	5.43	4.70	4.86	4.39	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has received psychotropic medication or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.22 Psychotropic medication costs

	AII		Girls		Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.01 (0.04)	-0.09 (0.23)	-0.02 (0.06)	0.52 (0.35)	0.04 (0.06)	-0.12 (0.46)
Overweight	0.06* (0.04)	-0.04 (0.17)	0.16 ^{***} (0.05)	-0.03 (0.36)	-0.07 (0.05)	0.30 (0.33)
Obese	0.14** (0.06)	0.08 (0.31)	0.13 (0.09)	0.53 (1.11)	0.16 [*] (0.08)	0.07 (0.39)
Ν	18,062	1,106	9,619	298	8,443	323
R-squared	0.078	0.717	0.035	0.811	0.075	0.787
Adjusted R- squared	0.075	0.383	0.029	0.455	0.069	0.409
Number of clusters		548		148		160
Mean of normal weight	6.77	7.30	6.45	6.88	7.14	7.69

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total psychotropic medication costs for the child on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table 1.23 Psychotropic medication costs, by SES

	Low SES		High SES		
	OLS	FE	OLS	FE	
Underweight	0.12 (0.08)	-1.04*** (0.40)	-0.04 (0.05)	0.26 (0.27)	
Overweight	-0.01 (0.06)	0.36 (0.33)	0.11** (0.04)	-0.08 (0.21)	
Obese	0.03 (0.10)	0.08 (0.44)	0.22 ^{***} (0.08)	0.52 (0.43)	
Ν	5,518	342	12,544	731	
R-squared	0.096	0.783	0.074	0.736	
Adjusted R-squared	0.087	0.408	0.070	0.399	
Number of clusters		168		364	
Mean of normal weight	6.77	7.39	6.77	7.27	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total psychotropic medication costs for the child on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables for health

		All		Girls		Boys
	OLS	FE	OLS	FE	OLS	FE
Underweight	-2.05*** (0.22)	-1.38*** (0.50)	-1.37*** (0.24)	-1.16 (0.79)	-2.89*** (0.38)	-1.33 (1.17)
Overweight	-0.35** (0.17)	0.30 (0.41)	-0.80*** (0.20)	0.21 (0.66)	0.11 (0.28)	0.19 (0.92)
Obese	-1.11*** (0.33)	-1.11 (0.83)	-1.93 ^{***} (0.42)	-1.94 (1.34)	-0.49 (0.50)	-1.89 (1.78)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.043	0.540	0.013	0.549	0.010	0.541
Adjusted R- squared	0.043	0.114	0.013	0.114	0.009	0.099
Number of clusters		67,624		17,590		19,382
Mean of normal weight	85.21	84.54	92.10	91.31	78.74	77.87

Table 1.24 Visiting a general practitioner at age 18

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has visited a general practitioner at age 18 or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.25 Visiting a general practitioner at age 18, by SES

	Low SES	Low SES		SES
	OLS	FE	OLS	FE
Underweight	-1.34 ^{***} (0.45)	-1.91* (1.03)	-2.29 ^{***} (0.26)	-1.30** (0.58)
Overweight	-0.18 (0.31)	0.11 (0.74)	-0.43** (0.21)	0.43 (0.51)
Obese	-0.66 (0.50)	-0.77 (1.28)	-1.48 ^{***} (0.45)	-1.48 (1.14)
Ν	95,106	36,174	245,319	101,007
R-squared	0.044	0.537	0.042	0.542
Adjusted R-squared	0.044	0.119	0.042	0.113
Number of clusters		17,126		48,797

	Low SES		High SES	
	OLS	FE	OLS	FE
Mean of normal weight	84.31	83.68	85.52	84.83

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has visited a general practitioner at age 18 or not on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.</p>

Source: VIVE.

Table 1.26 Primary sector costs at age 18

	All		Girls	i	Boys	i
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.05*** (0.01)	-0.04** (0.02)	-0.06*** (0.01)	-0.04 (0.03)	-0.05*** (0.01)	-0.03 (0.04)
Overweight	0.00 (0.01)	-0.01 (0.01)	-0.00 (0.01)	0.01 (0.03)	0.00 (0.01)	-0.01 (0.03)
Obese	-0.01 (0.01)	-0.03 (0.03)	-0.02 (0.02)	-0.11* (0.05)	-0.00 (0.02)	0.00 (0.06)
Ν	297,555	108,869	154,443	31,015	143,112	26,838
R-squared	0.071	0.564	0.021	0.567	0.011	0.543
Adjusted R- squared	0.071	0.155	0.020	0.147	0.010	0.098
Number of clusters		52,650		15,219		13,195
Mean of normal weight	6.53	6.51	6.80	6.76	6.25	6.24

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total primary sector costs of the child at age 18 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.27 Primary sector costs at age 18, by SES

	Low SE	S	High	SES
	OLS	FE	OLS	FE
Underweight	-0.04** (0.02)	-0.03 (0.04)	-0.06*** (0.01)	-0.05** (0.02)

	Low SES		High SES	
Overweight	0.00 (0.01)	-0.04 (0.03)	-0.00 (0.01)	-0.00 (0.02)
Obese	-0.00 (0.02)	0.01 (0.04)	-0.02 (0.02)	-0.05 (0.04)
Ν	81,994	27,387	215,561	78,651
R-squared	0.078	0.570	0.068	0.564
Adjusted R-squared	0.077	0.173	0.068	0.150
Number of clusters		13,085		38,232
Mean of normal weight	6.52	6.49	6.54	6.52

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total primary sector costs of the child at age 18 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.28 Hospital contact at age 18

	AII		Girls		Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	-1.72 ^{***} (0.22)	-0.57 (0.50)	-1.29 ^{***} (0.31)	0.38 (0.97)	-2.21*** (0.32)	-1.37 (0.99)
Overweight	1.17 ^{***} (0.19)	-0.34 (0.44)	1.71*** (0.27)	-0.51 (0.90)	0.64 ^{**} (0.26)	0.31 (0.84)
Obese	1.38 ^{***} (0.35)	-1.06 (0.89)	2.29 ^{***} (0.54)	-1.92 (1.90)	0.66 (0.47)	0.51 (1.65)
Ν	340,425	140,830	165,891	35,937	174,534	39,652
R-squared	0.138	0.560	0.153	0.576	0.123	0.562
Adjusted R- squared	0.137	0.153	0.153	0.168	0.123	0.141
Number of clusters		67,624		17,590		19,382
Mean of normal weight	19.92	19.19	20.80	19.57	19.09	18.59

Notes:The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling
FE regressions of an indicator for whether the child has had a hospital contact at age 18 or not on weight classifica-
tion. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables).
We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estima-
tions. * p < 0.1, ** p < 0.05, *** p < 0.01.</td>

Table 1.29	Hospital	contact a	at age	18, by SES
------------	----------	-----------	--------	------------

	Low	Low SES		SES
	OLS	FE	OLS	FE
Underweight	-1.28 ^{***} (0.47)	-0.29 (1.05)	-1.88 ^{***} (0.25)	-0.98* (0.58)
Overweight	1.41 ^{***} (0.33)	-1.06 (0.79)	1.07*** (0.23)	-0.24 (0.55)
Obese	1.94 ^{***} (0.54)	-0.12 (1.37)	0.94** (0.47)	-1.36 (1.20)
Ν	95,106	36,174	245,319	101,007
R-squared	0.141	0.566	0.135	0.558
Adjusted R-squared	0.141	0.174	0.135	0.145
Number of clusters		17,126		48,797
Mean of normal weight	21.88	21.03	19.23	18.59

Notes:The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling
FE regressions of an indicator for whether the child has had a hospital contact at age 18 or not on weight classifica-
tion. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables).
We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estima-
tions. * p < 0.1, ** p < 0.05, *** p < 0.01.</td>

Source: VIVE.

	AII		Girls		Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.01 (0.02)	-0.06 (0.10)	-0.06** (0.03)	-0.11 (0.20)	0.05* (0.03)	0.12 (0.20)
Overweight	0.04 ^{***} (0.02)	0.02 (0.08)	0.06 ^{***} (0.02)	-0.12 (0.17)	0.02 (0.02)	0.13 (0.18)
Obese	0.08 ^{***} (0.03)	0.22 (0.15)	0.11 ^{***} (0.04)	-0.09 (0.30)	0.06 (0.04)	0.20 (0.29)
Ν	73,826	6,910	37,607	1,781	36,219	1,762
R-squared	0.015	0.531	0.017	0.565	0.008	0.556
Adjusted R- squared	0.014	0.056	0.015	0.085	0.006	0.064
Number of clusters		3,426		887		879
Mean of normal weight	8.16	8.22	8.26	8.33	8.06	8.10

Table 1.30Secondary sector costs at age 18

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total secondary sector costs of the child at age 18 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table 1.31 Secondary sector costs at age 18, by SES

	Low SES		High	SES
	OLS	FE	OLS	FE
Underweight	0.02 (0.04)	-0.01 (0.18)	-0.02 (0.02)	-0.05 (0.12)
Overweight	0.02 (0.03)	-0.03 (0.13)	0.06 ^{***} (0.02)	0.06 (0.11)
Obese	0.04 (0.04)	0.19 (0.22)	0.12 ^{***} (0.04)	0.32 (0.22)
Ν	22,245	2,201	51,581	4,546
R-squared	0.022	0.545	0.014	0.539
Adjusted R-squared	0.019	0.064	0.013	0.062
Number of clusters		1,083		2,263
Mean of normal weight	8.18	8.16	8.15	8.24

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total secondary sector costs of the child at age 18 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables for social income transfers

	All		Girls	;	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.64 ^{***} (0.23)	1.42** (0.62)	-0.34 (0.30)	-0.32 (1.27)	1.75*** (0.35)	2.58 ^{**} (1.30)
Overweight	3.92*** (0.21)	2.06*** (0.60)	4.34*** (0.31)	2.66** (1.23)	3.51*** (0.29)	1.66 (1.11)
Obese	8.82*** (0.45)	5.22*** (1.27)	10.42*** (0.70)	8.59*** (2.81)	7.65*** (0.58)	4.73** (2.33)
Ν	224,235	58,576	107,622	14,209	116,613	16,713
R-squared	0.077	0.591	0.081	0.615	0.076	0.604
Adjusted R- squared	0.077	0.196	0.080	0.233	0.075	0.212
Number of clusters		28726		7028		8264
Mean of normal weight	10.19	9.86	9.91	9.86	10.44	10.24

Table 1.32 Probability of receiving a social income transfer at age 21

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the probability of receiving social income transfers for the child at age 21 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations, and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.33 Probability of receiving a social income transfer at age 21, by SES

	Low SES	;	High SES	
	OLS	FE	OLS	FE
Underweight	0.74 (0.54)	2.29 (1.46)	0.59** (0.24)	1.32** (0.67)
Overweight	4.20*** (0.41)	1.77 (1.15)	3.78 ^{***} (0.24)	2.19 ^{***} (0.70)
Obese	8.61 ^{***} (0.71)	5.98 ^{***} (2.04)	8.97 ^{***} (0.58)	4.20** (1.64)
Ν	95,106	36,174	245,319	101,007
R-squared	0.128	0.588	0.070	0.546
Adjusted R-squared	0.128	0.215	0.070	0.122
Number of clusters		17,126		48,797

	Low SES		High SES	
	OLS	FE	OLS	FE
Mean of normal weight	11.27	10.94	5.13	4.60

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the probability of receiving social income transfers for the child at age 21 on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.34 Social income transfers

	All		Girls	Girls		Boys	
	OLS	FE	OLS	FE	OLS	FE	
Underweight	0.09 ^{***} (0.03)	0.26 [*] (0.15)	0.05 (0.04)	0.31 (0.36)	0.12 ^{***} (0.04)	0.33 (0.25)	
Overweight	0.09*** (0.02)	0.13 (0.11)	0.08*** (0.03)	-0.09 (0.22)	0.10*** (0.03)	0.41* (0.23)	
Obese	0.22 ^{***} (0.03)	0.16 (0.15)	0.22 ^{***} (0.04)	-0.02 (0.28)	0.21*** (0.04)	0.56 ^{**} (0.27)	
Ν	25,921	1,912	12,127	502	13,794	593	
R-squared	0.057	0.567	0.050	0.631	0.054	0.626	
Adjusted R- squared	0.055	0.091	0.045	0.071	0.050	0.101	
Number of clusters		946		249		294	
Mean of normal weight	10.15	10.33	10.28	10.62	10.04	10.20	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of log-transformed social income transfers for the child on weight classification on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.</p>

Source: VIVE.

Table 1.35 Social income transfers, by SES

	Low SES		High SES	5
	OLS	FE	OLS	FE
Underweight	0.07 (0.04)	0.16 (0.17)	0.10 ^{***} (0.04)	0.67** (0.29)

	Low SES		High SES	
Overweight	0.09*** (0.03)	0.20 (0.13)	0.09 ^{***} (0.03)	-0.02 (0.23)
Obese	0.20*** (0.04)	0.06 (0.15)	0.23 ^{***} (0.04)	0.26 (0.36)
Ν	11,758	1,168	14,163	695
R-squared	0.060	0.576	0.047	0.592
Adjusted R-squared	0.055	0.078	0.043	0.053
Number of clusters		577		345
Mean of normal weight	10.29	10.42	10.05	10.17

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of log-transformed social income transfers for the child on weight classification on weight classification. Covariates are measured at age 7 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

1.2 Appendix 3: Elementary school children

	Coefficient	SE
Female	-0.001	(0.001)
Immigrant	-0.081***	(0.006)
Descendant	0.003	(0.004)
Ref. group first born.		
2 nd born	-0.006***	(0.001)
3 rd born	-0.017***	(0.002)
4 th or higher	-0.030***	(0.003)
Has a father	-0.038	(0.020)
Birth weight	0.005**	(0.002)
Birth length	-0.000	(0.000)
Missing birth weight	-0.018*	(0.008)
Missing birth length	0.001	(0.007)
Psychiatric diagnosis before age 5	-0.062***	(0.005)
Psychotropic medication before age 5	-0.012***	(0.003)
Hospital contacts before age 5	-0.003***	(0.000)
Hospitalizations before age 5	0.001	(0.000)
Mother characteristics		
Age at birth	0.000**	(0.000)
Psychiatric diagnosis	-0.000	(0.002)
Immigrant/descendant	-0.006*	(0.003)
Single	0.016***	(0.003)
Cohabiting with partner	0.012***	(0.002)
Education level above high school	0.007***	(0.002)
Log of total income	0.003***	(0.001)
Unemployed at age 5	-0.001	(0.003)
Not in labor force at age 5	-0.010***	(0.002)
Weeks of unemployment benefits per year, age 0-5	0.001**	(0.000)
Weeks of social assistance per year, age 0-5	0.000	(0.000)

Table 1.36 Representativity of sample with BMI measurements

	Coefficient	SE
Missing at age 5	-0.056	(0.094)
Missing income at age 5	-0.082	(0.094)
Father characteristics		
Age at birth	-0.000	(0.000)
Psychiatric diagnosis	-0.007**	(0.002)
Immigrant/descendant	0.008**	(0.003)
Education level above high school	0.003*	(0.002)
Log of total income	0.001*	(0.000)
Unemployed at age 7	-0.005	(0.003)
Not in labor force at age 7	-0.006*	(0.002)
Weeks of unemployment benefits per year, age 0-7	0.001***	(0.000)
Weeks of social assistance per year, age 0-7	0.000**	(0.000)
Missing at age 7	-0.025	(0.048)
Missing income at age 7	0.007	(0.048)
No registry information	-0.029	(0.020)
Constant	0.944***	(0.027)
Ν	392,986	
R-squared	0.175	

Notes: Regression of BMI measure dummy (whether child has a measurement or not) on conditioning set in full elementary school population. Including school start year and birth year-fixed effects. Robust standard errors in parentheses. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: Registry data from Statistics Denmark.

	Underw	veight	Normal	veight	Overw	reight	Obe	se
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Father charac	cteristics							
Age at birth	33.05***	(5.65)	32.84	(5.69)	32.74***	(6.07)	33.01***	(6.48)
Psychiatric diagnosis	0.08***	(0.27)	0.08	(0.28)	0.10***	(0.30)	0.13***	(0.33)
Education level above high school	0.77***	(0.42)	0.76	(0.43)	0.68***	(0.47)	0.58***	(0.49)
Total in- come in 10,000s	30.15**	(24.94)	29.67	(31,57)	27.21***	(142.72)	22.79***	(15.21)
Unem- ployed at age 5	0.03	(0.18)	0.03	(0.18)	0.05***	(0.21)	0.07***	(0.25)
Not in labor force at age 5	0.09**	(0.29)	0.10	(0.30)	0.14***	(0.34)	0.18***	(0.39)
Weeks of social as- sistance per year, age 0-5	0.80***	(3.98)	0.88	(4.15)	1.40***	(5.21)	2.16***	(6.40)
Ν	26,181		252,335		30,737		7,993	

Table 1.37 Additional descriptive statistics on father

Notes: Selected relevant characteristics of the sample split by weight classification. Test of differences in means by t-tests with reference to normal weight. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: Own calculations based on Danish Registry Data.

Table 1.38 Descriptive statistics of full elementary school sample and sibling sample

	Full sample		Sibling sample		Test of difference in means between siblings and non- siblings
	Mean	SD	Mean	SD	Difference
Female	0.49	(0.50)	0.49	(0.50)	0.00*
Immigrant	0.02	(0.16)	0.02	(0.13)	0.01***
Descendant	0.08	(0.27)	0.07	(0.26)	0.00***
Has father	0.99	(0.11)	0.99	(0.08)	-0.01***
First child	0.45	(0.50)	0.39	(0.49)	0.10***

	Full sample		Sibling sample		Test of difference in means between siblings and non- siblings
	Mean	SD	Mean	SD	Difference
Birth weight	3,489	(589)	3,452	(626)	61.61***
Birth length	51.77	(2.73)	51.60	(2.89)	0.27***
Psychiatric diagnosis before age 5	0.02	(0.13)	0.01	(0.12)	0.00***
Hospital contacts be- fore age 5	5.03	(4.72)	5.05	(4.59)	-0.02
In public school in 2 nd grade (%)	0.83	(0.37)	0.84	(0.36)	-0.02***
Age of BMI measure- ment	6.77	(0.80)	6.77	(0.80)	-0.01***
Mother characteris- tics					
Age at birth	29.59	(4.92)	28.73	(4.38)	1.42***
Psychiatric diagnosis	0.12	(0.33)	0.11	(0.32)	0.02***
Cohabiting with part- ner	0.77	(0.42)	0.81	(0.39)	-0.06***
Education level above high school	0.77	(0.42)	0.79	(0.41)	-0.03***
Total income in 10,000s	24.85	(20.98)	25.68	(29.71)	-1.39***
Unemployed at age 5	0.05	(0.21)	0.04	(0.21)	0.00***
Not in labor force at age 5	0.18	(0.38)	0.17	(0.37)	0.02***
Weeks of social as- sistance per year, age 0-5	2.74	(9.03)	2.68	(9.10)	0.10***
Father characteris- tics					
Age at birth	32.85	(5.74)	32.53	(5.33)	0.54***
Psychiatric diagnosis	0.09	(0.28)	0.08	(0.27)	0.01***
Education level above high school	0.75	(0.43)	0.77	(0.42)	-0.04***
Total income in 10,000s	29.30	(53.02)	30.26	(77.76)	-1.59***
Unemployed at age 5	0.04	(0.19)	0.03	(0.18)	0.01***
Not in labor force at age 5	0.10	(0.31)	0.09	(0.29)	0.02***

	Full sample	Sibling sample		Test of difference in means between siblings and non- siblings	
	Mean	SD	Mean	SD	Difference
Weeks of social as- sistance per year, age 0-5	0.96	(4.33)	0.87	(4.15)	0.14***
Ν	317,246		125,240		317,246

Notes: Descriptive statistics of means and standard deviations for full sample and sibling sample. Simple t-tests of means between sibling sample and non-sibling sample. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables on education

	All		Girls	6	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.49* (0.25)	-0.20 (0.30)	-0.55 (0.35)	-0.48 (0.55)	-0.42 (0.36)	-1.07* (0.61)
Overweight	-0.36 (0.23)	-0.56* (0.31)	-0.24 (0.31)	0.11 (0.56)	-0.51 (0.36)	-0.67 (0.67)
Obese	-0.76* (0.45)	-1.49** (0.73)	0.44 (0.58)	-1.75 (1.28)	-2.41*** (0.72)	-3.07* (1.68)
Ν	317,246	125,240	154,913	31,608	162,333	35,110
R-squared	0.018	0.865	0.018	0.888	0.018	0.853
Adjusted R- squared	0.018	0.737	0.017	0.778	0.018	0.711
Number of clusters		60,815		15,549		17,267
Mean of normal weight	82.04	83.19	82.40	83.38	81.72	83.17

Table 1.39 Sat national test in 2nd grade reading

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child attended the National Test of reading in 2nd grade or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.40 Sat national test in 2nd grade reading, SES

	Low SES – ed	lucation	High SES -	education
	OLS	FE	OLS	FE
Underweight	0.32 (0.56)	-0.63 (0.84)	-0.72** (0.28)	-0.13 (0.32)
Overweight	0.18 (0.44)	-0.69 (0.75)	-0.58** (0.28)	-0.51 (0.33)
Obese	-1.12 (0.72)	-1.69 (1.39)	-0.61 (0.58)	-1.58* (0.83)
Ν	72,899	24,719	244,347	97,343
R-squared	0.023	0.810	0.017	0.882
Adjusted R-squared	0.023	0.634	0.017	0.771
Number of clusters		11,882		47,403

	Low SES – educa	ation	High SES – education		
Mean of normal weight	80.99	82.08	82.34	83.49	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child attended the National Test on reading in 2nd grade or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.41 Sat National Test in 3rd grade math

	AII		Girls	i	Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.56** (0.26)	-0.22 (0.32)	-0.41 (0.36)	0.11 (0.57)	-0.69* (0.37)	-1.01 (0.68)
Overweight	-0.30 (0.24)	-0.74** (0.33)	-0.24 (0.32)	0.01 (0.59)	-0.36 (0.36)	-1.85*** (0.71)
Obese	-0.45 (0.46)	-0.66 (0.75)	1.21** (0.58)	0.15 (1.26)	-2.70*** (0.74)	-3.96** (1.82)
Ν	317,246	125,240	154,913	31,608	162,333	35,110
R-squared	0.018	0.856	0.018	0.881	0.018	0.842
Adjusted R- squared	0.017	0.720	0.017	0.765	0.018	0.689
Number of clusters		60,815		15,549		17,267
Mean of normal weight	81.06	82.26	81.38	82.38	80.77	82.25

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child attended the National Test on math in 3rd grade or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

	Low SES – education		High SES – education	
	OLS	FE	OLS	FE
Underweight	0.05 (0.57)	-0.40 (0.89)	-0.74** (0.29)	-0.16 (0.34)
Overweight	0.27 (0.45)	-1.26 (0.79)	-0.53* (0.28)	-0.53 (0.35)
Obese	-1.19 (0.74)	0.65 (1.48)	-0.06 (0.59)	-1.75** (0.81)
Ν	72,899	24,719	244,347	97,343
R-squared	0.021	0.797	0.018	0.874
Adjusted R-squared	0.020	0.607	0.018	0.755
Number of clusters		11,882		47,403
Mean of normal weight	80.19	81.26	81.30	82.53

Table 1.42 Sat National Test in 3rd grade mathematics, by SES

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child attended the National Test on mathematics in 3rd grade or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.</p>

Source: VIVE.

	All		Girls	;	Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.02*** (0.01)	-0.01 (0.01)	0.02** (0.01)	0.01 (0.03)	0.02 [*] (0.01)	-0.01 (0.03)
Overweight	-0.10*** (0.01)	-0.01 (0.01)	-0.10*** (0.01)	-0.01 (0.02)	-0.11*** (0.01)	-0.02 (0.03)
Obese	-0.22*** (0.01)	-0.03 (0.03)	-0.21*** (0.02)	0.05 (0.05)	-0.25*** (0.02)	-0.03 (0.07)
Ν	259,668	99,608	127,434	25,349	132,234	27,697
R-squared	0.103	0.673	0.096	0.685	0.082	0.675
Adjusted R- squared	0.103	0.362	0.095	0.378	0.082	0.357
Number of clusters		48,445		12,479		13,627
Mean of normal weight	0.04	0.06	0.18	0.20	-0.09	-0.07

Table 1.43 Standardized test score in 2nd grade reading

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the standardized 2nd grade test scores in reading for the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

	Low SES – e	ducation	High SES -	High SES – education		
	OLS	FE	OLS	FE		
Underweight	0.03** (0.02)	-0.02 (0.04)	0.01** (0.01)	-0.01 (0.01)		
Overweight	-0.06*** (0.01)	-0.01 (0.03)	-0.11*** (0.01)	-0.01 (0.02)		
Obese	-0.20*** (0.02)	-0.08 (0.05)	-0.24*** (0.02)	-0.01 (0.04)		
Ν	58,957	18,985	200,711	78,185		
R-squared	0.092	0.655	0.069	0.664		
Adjusted R-squared	0.091	0.331	0.068	0.343		
Number of clusters		9,155		38,113		
Mean of normal weight	-0.29	-0.30	0.13	0.15		

Table 1.44 Standardized test score in 2nd grade reading, SES

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the standardized 2nd grade test scores in reading for the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

	AII		Girls	i	Boys	i -
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.01* (0.01)	-0.01 (0.01)	-0.00 (0.01)	-0.02 (0.03)	0.02 ^{**} (0.01)	0.00 (0.03)
Overweight	-0.11*** (0.01)	-0.02 (0.01)	-0.10*** (0.01)	-0.02 (0.03)	-0.12*** (0.01)	-0.02 (0.03)
Obese	-0.21*** (0.01)	-0.05 (0.03)	-0.21*** (0.02)	-0.02 (0.05)	-0.22*** (0.02)	-0.07 (0.07)
Ν	256,596	97,978	125,925	24,939	130,671	27,185
R-squared	0.086	0.658	0.094	0.674	0.079	0.662
Adjusted R- squared	0.086	0.334	0.094	0.356	0.079	0.332
Number of clusters		47,671		12,276		13,389
Mean of normal weight	0.05	0.09	0.05	0.10	0.04	0.09

Table 1.45 Standardized test score in 3rd grade math

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the standardized 3rd grade test scores in mathematics for the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

	Low SES – education		High SES –	education
	OLS	FE	OLS	FE
Underweight	0.00 (0.02)	-0.04 (0.04)	0.01* (0.01)	-0.01 (0.02)
Overweight	-0.08*** (0.01)	-0.10*** (0.03)	-0.12*** (0.01)	0.01 (0.02)
Obese	-0.18 ^{***} (0.02)	-0.13** (0.05)	-0.23*** (0.02)	-0.02 (0.04)
Ν	58,389	18,676	198,207	76,904
R-squared	0.070	0.637	0.051	0.650
Adjusted R-squared	0.069	0.293	0.051	0.316
Number of clusters		9,019		37,496
Mean of normal weight	-0.29	-0.27	0.14	0.18

Table 1.46 Standardized test score in 3rd grade math, SES

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of the standardized 3rd grade test scores in math for the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.474th grade school absence

	All		Girls		Boys	i
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.08 [*] (0.04)	0.06 (0.08)	0.16 ^{***} (0.05)	0.37 ^{***} (0.13)	-0.01 (0.06)	-0.21 (0.15)
Overweight	0.36*** (0.04)	0.01 (0.08)	0.37 ^{***} (0.05)	0.17 (0.13)	0.34 ^{***} (0.06)	-0.08 (0.15)
Obese	1.39 ^{***} (0.09)	0.34* (0.17)	1.21 ^{***} (0.10)	0.34 (0.30)	1.67*** (0.15)	0.18 (0.38)
Ν	257,073	97,957	125,073	24,558	132,000	27,592
R-squared	0.055	0.662	0.057	0.673	0.053	0.675
Adjusted R- squared	0.055	0.341	0.057	0.353	0.053	0.358
Number of clusters		47,625		12,088		13,582
Mean of normal weight	5.12	4.75	4.94	4.56	5.27	4.89

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total 4th grade school absence for the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table 1.48 4th grade school absence, SES

	Low SES – edu	cation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	0.08 (0.10)	0.21 (0.19)	0.08* (0.04)	0.04 (0.08)	
Overweight	0.40 ^{***} (0.08)	-0.01 (0.18)	0.33 ^{***} (0.04)	0.01 (0.08)	
Obese	1.56*** (0.15)	0.59* (0.31)	1.27*** (0.11)	0.17 (0.21)	
Ν	59,904	19,506	197,169	76,015	
R-squared	0.049	0.687	0.038	0.646	
Adjusted R-squared	0.048	0.392	0.038	0.308	
Number of clusters		9,402		37,050	
Mean of normal weight	6.28	5.87	4.79	4.47	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total 4th grade school absence for the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables on well-being

Table 1.49 Bullying

	All		Girls		Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.93*** (0.24)	-0.83 (0.62)	-1.09*** (0.34)	-1.07 (1.24)	-0.75** (0.35)	-1.98 [*] (1.15)
Overweight	3.36*** (0.26)	1.88 ^{***} (0.65)	3.25*** (0.35)	-0.63 (1.19)	3.46*** (0.39)	1.21 (1.35)
Obese	6.66*** (0.55)	3.00** (1.43)	6.66*** (0.72)	2.18 (2.67)	6.49 ^{***} (0.85)	1.45 (3.22)
Ν	228,872	79,551	111,512	19,919	117,360	22,352
R-squared	0.017	0.529	0.020	0.541	0.016	0.545
Adjusted R- squared	0.017	0.080	0.019	0.091	0.015	0.098
Number of clusters		38,779		9,818		11,020
Mean of normal weight	12.20	11.19	12.15	11.11	12.25	10.85

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has experienced bullying or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.50 Bullying, by SES

	Low SES – edu	cation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	-1.83*** (0.60)	-1.20 (1.67)	-0.68** (0.26)	-0.93 (0.66)	
Overweight	2.17 ^{***} (0.53)	1.31 (1.45)	3.80*** (0.30)	2.36 ^{***} (0.74)	
Obese	5.24 ^{***} (0.90)	4.17 (2.63)	7.55 ^{***} (0.69)	2.62 (1.72)	
Ν	52,030	15,075	176,842	62,537	
R-squared	0.015	0.530	0.011	0.527	
Adjusted R-squared	0.014	0.082	0.011	0.074	
Number of clusters		7,302		30,539	

	Low SES – edu	cation	High SES –	education
	OLS	FE	OLS	FE
Mean of normal weight	16.82	15.53	10.93	10.14

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has experienced bullying or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.51 Loneliness

	All		Girls	;	Boys	i -
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.22 (0.18)	0.47 (0.43)	-0.38 (0.27)	0.39 (0.90)	-0.05 (0.24)	0.81 (0.74)
Overweight	1.45*** (0.19)	0.03 (0.48)	1.78 ^{***} (0.27)	-0.58 (0.97)	0.98 ^{***} (0.26)	0.40 (0.87)
Obese	2.54*** (0.40)	2.31** (1.01)	2.19 ^{***} (0.54)	3.72 [*] (2.04)	2.94*** (0.59)	3.32* (2.00)
Ν	233,507	82,437	114,440	20,859	119,067	22,908
R-squared	0.010	0.519	0.010	0.527	0.007	0.535
Adjusted R- squared	0.009	0.060	0.009	0.063	0.007	0.079
Number of clusters		40,170		10,274		11,287
Mean of normal weight	5.94	5.46	6.97	6.43	5.00	4.25

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has experienced loneliness or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.52 Loneliness, by SES

	Low SES – educa	ition	High SES – educ	ation
	OLS	FE	OLS	FE
Underweight	-0.92** (0.44)	0.18 (1.19)	-0.02 (0.19)	0.40 (0.46)

	Low SES - eo	ducation	High SES – education		
Overweight	1.42 ^{***} (0.39)	0.42 (1.10)	1.44 ^{***} (0.21)	-0.31 (0.54)	
Obese	2.15 ^{***} (0.66)	2.67 (1.85)	2.83 ^{***} (0.50)	2.18 [*] (1.23)	
Ν	53,259	15,687	180,248	64,723	
R-squared	0.011	0.515	0.006	0.519	
Adjusted R-squared	0.010	0.053	0.006	0.059	
Number of clusters		7,595		31,596	
Mean of normal weight	8.15	7.87	5.33	4.90	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has experienced loneliness or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.53 Confidence

	All		Girls	i	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.81 ^{**} (0.34)	0.69 (0.82)	1.23 ^{***} (0.46)	2.29 (1.57)	0.39 (0.50)	1.49 (1.56)
Overweight	-1.89*** (0.33)	1.14 (0.83)	-2.25*** (0.43)	-0.31 (1.55)	-1.45 ^{***} (0.50)	2.58 (1.72)
Obese	-2.70 ^{***} (0.63)	1.53 (1.74)	-3.06*** (0.82)	4.48 (3.25)	-2.22** (1.00)	2.93 (3.72)
Ν	227,816	78,830	112,044	20,157	115,772	21,768
R-squared	0.019	0.546	0.019	0.554	0.018	0.557
Adjusted R- squared	0.019	0.112	0.018	0.116	0.017	0.123
Number of clusters		38,436		9,933		10,728
Mean of normal weight	72.91	74.05	74.60	75.61	71.37	72.71

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child academically confident or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table 1.54 Confidence, by SES

	Low SES – ed	Low SES – education		education
	OLS	FE	OLS	FE
Underweight	0.86 (0.79)	0.48 (2.04)	0.78 ^{**} (0.37)	0.77 (0.90)
Overweight	-0.98 (0.64)	-1.07 (1.73)	-2.17*** (0.38)	1.69* (0.97)
Obese	-0.25 (1.02)	-2.49 (3.04)	-4.25*** (0.81)	3.19 (2.17)
Ν	51,377	14,721	176,439	62,209
R-squared	0.015	0.551	0.015	0.543
Adjusted R-squared	0.014	0.123	0.014	0.105
Number of clusters		7,139		30,381
Mean of normal weight	66.80	67.66	74.58	75.59

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child academically confident or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.55 Self-efficacy

	AII		Girls	i	Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.41 (0.31)	-0.18 (0.77)	-0.61 (0.44)	-0.15 (1.49)	-0.18 (0.44)	-1.13 (1.49)
Overweight	-1.85*** (0.30)	2.19 ^{***} (0.77)	-2.10*** (0.41)	1.07 (1.46)	-1.52*** (0.45)	3.91** (1.56)
Obese	-2.44*** (0.59)	3.27** (1.64)	-2.24 ^{***} (0.78)	3.04 (3.00)	-2.68*** (0.93)	2.52 (3.76)
Ν	225,736	77,780	111,075	19,846	114,661	21,407
R-squared	0.016	0.530	0.017	0.538	0.015	0.544
Adjusted R- squared	0.016	0.081	0.016	0.084	0.015	0.095
Number of clusters		37,947		9,783		10,559
Mean of normal weight	79.94	80.75	79.80	81.01	80.07	80.66

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has self-efficacy or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Table 1.56 Self-efficacy, by SES

	Low SES – edu	cation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	-0.92 (0.75)	-0.53 (1.99)	-0.28 (0.34)	0.23 (0.84)	
Overweight	-0.83 (0.60)	3.12* (1.74)	-2.20*** (0.35)	1.81** (0.86)	
Obese	-1.98** (0.99)	-0.17 (3.05)	-2.64*** (0.74)	5.28 ^{***} (1.96)	
Ν	50,756	14,399	174,980	61,490	
R-squared	0.011	0.524	0.011	0.530	
Adjusted R-squared	0.010	0.070	0.010	0.080	
Number of clusters		6,986		30,045	
Mean of normal weight	74.15	74.36	81.51	82.26	

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has self-efficacy or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Tables on health

	All		Girls	i	Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	-1.62*** (0.30)	-0.76 (0.66)	-2.00*** (0.41)	-0.22 (1.29)	-1.24*** (0.43)	-4.09 ^{***} (1.29)
Overweight	2.83 ^{***} (0.26)	1.53** (0.62)	2.82*** (0.35)	1.91 (1.17)	2.82*** (0.40)	1.22 (1.32)
Obese	4.77*** (0.47)	2.86** (1.23)	4.74 ^{***} (0.62)	4.79** (2.25)	4.77*** (0.73)	2.46 (2.71)
Ν	317,246	125,240	154,913	31,608	162,333	35,110
R-squared	0.016	0.560	0.016	0.573	0.016	0.570
Adjusted R- squared	0.016	0.145	0.016	0.156	0.016	0.152
Number of clusters		60,815		15,549		17,267
Mean of normal weight	71.77	70.89	72.77	71.88	70.86	69.93

Table 1.57 Visiting a general practitioner at age 10

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has visited a general practitioner at age 10 or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.58 Visiting a general practitioner at age 10, by SES

	Low SES – edu	cation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	-0.78 (0.64)	-1.63 (1.50)	-1.85 ^{***} (0.34)	-0.71 (0.75)	
Overweight	1.82 ^{***} (0.49)	0.35 (1.22)	3.19 ^{***} (0.31)	1.93 ^{***} (0.73)	
Obese	3.43 ^{***} (0.76)	2.72 (2.05)	5.55 ^{***} (0.61)	2.26 (1.60)	
Ν	72,899	24,719	244,347	97,343	
R-squared	0.022	0.563	0.015	0.561	
Adjusted R-squared	0.021	0.154	0.015	0.143	
Number of clusters		11,882		47,403	

	Low SES – edu	cation	High SES –	education
	OLS	FE	OLS	FE
Mean of normal weight	72.75	72.17	71.49	70.53

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of an indicator for whether the child has visited a general practitioner at age 10 or not on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.59 Primary sector costs at age 10

	All		Girls	i	Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.02** (0.01)	0.03 (0.02)	-0.04*** (0.01)	-0.01 (0.04)	0.01 (0.01)	0.07 (0.04)
Overweight	0.09 ^{***} (0.01)	0.07*** (0.02)	0.11*** (0.01)	0.05 (0.04)	0.07*** (0.01)	0.03 (0.04)
Obese	0.18 ^{***} (0.01)	0.15*** (0.04)	0.18 ^{***} (0.02)	0.09 (0.08)	0.17*** (0.02)	0.02 (0.10)
Ν	240,635	75,258	119,087	19,367	121,548	20,466
R-squared	0.019	0.567	0.020	0.587	0.018	0.572
Adjusted R- squared	0.018	0.152	0.019	0.179	0.017	0.152
Number of clusters		36,804		9,558		10,098
Mean of normal weight	6.13	6.17	6.16	6.22	6.11	6.14

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of primary sector costs of the child on weight classification. Dependent variable is log-transformed. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.60 Primary sector costs at age 10, by SES

	Low SES – educ	ation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	-0.01 (0.02)	0.03 (0.05)	-0.02** (0.01)	0.03 (0.03)	

	Low SES – ed	ucation	High SES -	High SES – education		
Overweight	0.08 ^{***} (0.01)	0.04 (0.04)	0.10 ^{***} (0.01)	0.08 ^{***} (0.02)		
Obese	0.17 ^{***} (0.02)	0.20 ^{***} (0.07)	0.18 ^{***} (0.02)	0.13 ^{**} (0.06)		
Ν	55,707	15,292	184,928	57,986		
R-squared	0.020	0.571	0.018	0.567		
Adjusted R-squared	0.019	0.162	0.018	0.150		
Number of clusters		7,408		28,438		
Mean of normal weight	6.17	6.22	6.12	6.15		

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of primary sector costs of the child on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

Source: VIVE.

Table 1.61 Hospital contact at age 10

	All		Girls	i	Boys	;
	OLS	FE	OLS	FE	OLS	FE
Underweight	-0.51* (0.26)	0.48 (0.62)	-0.85 ^{**} (0.37)	2.82 ^{**} (1.20)	-0.14 (0.38)	-2.39 ^{**} (1.20)
Overweight	2.96 ^{***} (0.26)	2.98 ^{***} (0.61)	3.43*** (0.35)	1.86 (1.16)	2.36*** (0.39)	3.20** (1.25)
Obese	7.59 ^{***} (0.50)	5.73 ^{***} (1.30)	8.54 ^{***} (0.67)	0.90 (2.31)	6.29 ^{***} (0.76)	14.00 ^{***} (2.83)
Ν	317,246	125,240	154,913	31,608	162,333	35,110
R-squared	0.097	0.562	0.098	0.577	0.097	0.567
Adjusted R- squared	0.097	0.147	0.098	0.165	0.096	0.146
Number of clusters		60,815		15,549		17,267
Mean of normal weight	24.30	23.65	24.10	23.79	24.47	23.87

Notes:The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling
FE regressions of an indicator for whether the child has had a hospital contact at age 10 or not on weight classifica-
tion. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables).
We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estima-
tions. * p < 0.1, ** p < 0.05, *** p < 0.01.</td>

	Low SES – edu	ıcation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	0.74 (0.59)	0.42 (1.46)	-0.84*** (0.30)	0.53 (0.69)	
Overweight	2.97 ^{***} (0.49)	2.87** (1.23)	2.94*** (0.30)	2.97 ^{***} (0.72)	
Obese	7.65 ^{***} (0.80)	4.08* (2.19)	7.52*** (0.65)	6.75 ^{***} (1.68)	
Ν	72,899	24,719	244,347	97,343	
R-squared	0.095	0.562	0.098	0.562	
Adjusted R-squared	0.094	0.154	0.098	0.146	
Number of clusters		11,882		47,403	
Mean of normal weight	24.75	24.37	24.17	23.48	

Table 1.62 Hospital contact at age, by SES

Notes:The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling
FE regressions of an indicator for whether the child has had a hospital contact at age 10 or not on weight classifica-
tion. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables).
We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estima-
tions. * p < 0.1, ** p < 0.05, *** p < 0.01.</td>

Source: VIVE.

	All		Girls		Boys	
	OLS	FE	OLS	FE	OLS	FE
Underweight	0.03* (0.02)	-0.03 (0.08)	0.05* (0.03)	-0.03 (0.14)	0.02 (0.03)	0.01 (0.15)
Overweight	0.07*** (0.02)	0.01 (0.07)	0.07 ^{***} (0.02)	0.06 (0.13)	0.08 ^{***} (0.02)	-0.02 (0.14)
Obese	0.25 ^{***} (0.03)	0.39*** (0.14)	0.30 ^{***} (0.04)	0.64 ^{***} (0.23)	0.18 ^{***} (0.04)	0.13 (0.32)
Ν	78,849	9,085	38,431	2,366	40,418	2,544
R-squared	0.034	0.551	0.038	0.605	0.032	0.555
Adjusted R- squared	0.033	0.100	0.036	0.182	0.031	0.078
Number of clusters		4,506		1,176		1,269
Mean of normal weight	7.89	7.95	7.87	7.98	7.91	7.98

Table 1.63Secondary sector costs at age 10

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total hospital costs of the child at age 10 on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

	Low SES – educ	ation	High SES – education		
	OLS	FE	OLS	FE	
Underweight	0.04 (0.04)	-0.21 (0.16)	0.03 (0.02)	-0.00 (0.09)	
Overweight	0.08 ^{***} (0.03)	0.10 (0.15)	0.07*** (0.02)	-0.02 (0.08)	
Obese	0.22 ^{***} (0.04)	0.30 (0.23)	0.27*** (0.03)	0.48 ^{***} (0.17)	
Ν	18,701	2,033	60,148	6,842	
R-squared	0.039	0.562	0.033	0.556	
Adjusted R-squared	0.036	0.093	0.032	0.106	
Number of clusters		1,006		3,397	
Mean of normal weight	7.89	7.98	7.89	7.94	

Table 1.64 Secondary sector costs at age, by SES

Notes: The table shows covariate-adjusted estimation coefficients and standard errors (in parentheses) from OLS and sibling FE regressions of total hospital costs of the child at age 10 on weight classification. Covariates are measured at age 5 or earlier (see Appendix Table 1.2 for a full description of included variables). We apply robust standard errors in the OLS estimations and family-clustered standard errors in the sibling FE estimations. * p < 0.1, ** p < 0.05, *** p < 0.01.

