

## Web appendix 2: Further sensitivity analysis

As a sensitivity analysis for the breastfeeding duration/cessation analysis, full information on breastfeeding duration measured in months is used, for mothers who had a value for pre-pregnancy BMI as shown in Table A.1. Ordered logistic regression models are run for pre-pregnancy BMI categories and pre-pregnancy BMI as a continuous variable. The results of these analyses are shown in Table A.2. As with the analysis in the main paper, interactions between ethnicity and BMI are tested, and there is no evidence for an interaction for both BMI categories ( $F(21,369)=0.91, p>0.05$ ) or BMI as a continuous variable ( $F(7,383)=0.72, p>0.05$ ).

Table A.1 Breastfeeding duration in months

	%	n
1 day - 1 month	31.34	3758
5 weeks - 2 months	10.61	1272
9 weeks - 3 months	9.7	1163
13 weeks - 4 months	8.71	1044
17 weeks - 5 months	5.47	656
22 weeks - 6 months	6.49	778
7 months	3.63	435
8 months or more	24.03	2881
n		11,990

Table A.2 Ordered logistic regression for duration of breastfeeding in months and pre-pregnancy BMI category and pre-pregnancy BMI

Duration in months		
pre-pregnancy BMI groups	total effect	direct effect
OR (95%CI)		
underweight	1.01 (0.84-1.23)	1.03 (0.85-1.25)
healthy weight	1	1
overweight	0.74 (0.67-0.81)	0.74 (0.67-0.82)
obese	0.60 (0.51-0.70)	0.62 (0.53-0.72)
<i>t1</i>	-0.08	-0.16
<i>t2</i>	0.44	0.36
<i>t3</i>	0.88	0.81
<i>t4</i>	1.28	1.21
<i>t5</i>	1.55	1.47
<i>t6</i>	1.88	1.81
<i>t7</i>	2.09	2.02
pre-pregnancy BMI OR (95%CI)	0.96 (0.95-0.97)	0.96 (0.95-0.97)
<i>t1</i>	-1.01	-1.06
<i>t2</i>	-0.49	-0.54
<i>t3</i>	-0.05	-0.09
<i>t4</i>	0.35	0.31
<i>t5</i>	0.62	0.58
<i>t6</i>	0.95	0.92
<i>t7</i>	1.16	1.12
n	11990	11990