

**Supplementary Table 1.** Associations between duration of any breastfeeding and type 2 diabetes in the included population and after imputation of missing values

Duration of any breastfeeding (months)	Analytical sample (N=6,044)		Multiple imputation model (N=7,458)	
	Unadjusted	Adjusted <sup>a</sup>	Unadjusted	Adjusted <sup>a</sup>
≤0.5	Reference	Reference	Reference	Reference
>0.5-1	0.74 (0.49-1.11)	0.81 (0.53-1.24)	0.77 (0.51-1.15)	0.88 (0.58-1.33)
>1-2	0.88 (0.62-1.25)	1.03 (0.72-1.49)	0.88 (0.63-1.25)	1.07 (0.76-1.53)
>2-4	0.67 (0.46-0.96)	0.80 (0.54-1.17)	0.69 (0.48-1.00)	0.86 (0.59-1.26)
>4	0.49 (0.32-0.75)	0.69 (0.44-1.07)	0.51 (0.34-0.79)	0.74 (0.47-1.16)

<sup>a</sup> The table shows the hazard ratio and 95% confidence intervals adjusted for parental social status and education, maternal body mass index, maternal diabetes during pregnancy, smoking quantity during the third trimester, gestational weight gain, parity, preterm birth, birth weight and sex.

**Supplementary Table 2.** Characteristics of included study participants (n=6,044) and study participants who were excluded due to missing information on breastfeeding (n=1,414) from among eligible individuals).<sup>1</sup>

Characteristics	Included (n=6,044, 81%)			Excluded (n=1,414, 19%)			p-value <sup>2</sup>
	N	Mean (SD)	Min, max	N	Mean (SD)	Min, max	
Maternal age at birth (years)	6,044	25.4 (6.5)	14, 48	1,414	24.7 (6.4)	14, 44	<0.001
Maternal pre-pregnancy BMI (kg/m <sup>2</sup> )	5,483	21.8 (3.0)	14.7, 47.8	1,175	21.8 (2.9)	15.6, 38.1	0.95
Parity	6,044	1.9 (1.2)	1, 9	1,414	1.9 (1.2)	1, 8	0.69
Birth weight (kg)	5,995	3.2 (0.6)	0.8, 5.5	1,326	3.2 (0.6)	0.9, 5.2	0.90
7-years BMI (kg/m <sup>2</sup> )	2,426	15.5 (1.4)	11.1, 24.3	502	15.5 (1.3)	12.3, 20.8	0.28
41-43-years BMI (kg/m <sup>2</sup> )	3,391	25.1 (4.5)	14.1, 54.9	802	25.1 (4.5)	16.5, 48.4	0.82
Characteristics	n		%	n		%	p-value <sup>3</sup>
Parental social status							0.01
Low: 0-6 points	1,241/5,372		23.1	165/575		28.7	
Medium: 7-10 points	2,288		42.6	229		39.8	
High: 11-20 points	1,843		34.3	181		31.5	
Breadwinner's education							<0.001
Remedial education	69/5,259		1.3	18/642		2.8	
Grade school	3,528		67.1	377		58.7	
High school	1,107		21.1	161		25.1	
College	555		10.6	86		13.4	
Maternal marital status, % married	3,773/5,955		63.4	774/1,391		55.6	<0.001
Attitude toward pregnancy, % wanted	2,557/5,828		43.9	516/1,346		38.3	<0.001
Categories of maternal pre-pregnancy BMI (kg/m <sup>2</sup> )							0.99
< 18.5	476/5,483		8.7	105/1,175		8.9	
≥ 18.5 & < 25	4,383		79.9	939		79.9	
≥ 25 & < 30	533		9.7	112		9.5	
≥ 30	91		1.7	19		1.6	
Maternal diabetes during pregnancy, % yes	62/6,043		1.0	16/1,414		1.1	0.73

**Supplementary Table 2. Continued**

Characteristics	n	%	n	%	p-value <sup>3</sup>
Smoking during the third trimester (cigarettes/day)					0.77
None	2,870/5,952	48.2	661/1,382	47.8	
< 3	417	7.0	88	6.4	
2-10	1,791	30.1	434	31.4	
11-20	782	13.1	175	12.7	
>20	92	1.6	24	1.7	
Gestational weight gain (kg)					0.38
< 6	277/3,594	7.7	65/784	8.3	
6-8	597	16.6	131	16.7	
9-10	658	18.3	125	15.9	
11-12	618	17.2	151	19.3	
13-15	738	20.5	171	21.8	
>16	706	19.6	141	18.0	
Died during the first year of life, % yes	0/6,044	0	0/1,414	0	NA
Sex, % boys	3,057/6,044	50.6	705/1,414	49.9	0.62
Preterm birth <sup>4</sup> , % yes	902/4,867	18.5	208/1,150	18.1	0.72
Birth weight (g)					0.33
≤ 2750	1,153/5,995	19.2	258/1,326	19.5	
> 2750-3250	1,973	32.9	417	31.5	
> 3250-3750	1,935	32.3	465	35.1	
> 3750-4250	745	12.4	153	11.5	
> 4250-4750	165	2.8	28	2.1	
> 4750	24	0.4	5	0.4	
Age at introduction of spoon feeding (months)					0.08
0-2	957/5,341	17.9	83/447	18.6	
3-5	3,641	68.2	283	63.3	
6-8	677	12.7	74	16.6	
9-11	66	1.2	7	1.6	
	<b>Incidence rate</b>	<b>95% CI</b>	<b>Incidence rate</b>	<b>95% CI</b>	<b>p-value<sup>5</sup></b>
Type 2 diabetes	1.64	(1.44-1.84)	1.79	(1.39-2.31)	0.50

<sup>1</sup> The table provides the number of individuals with information available and the percentages within a given category of the characteristics. <sup>2</sup> P-value from t-tests. <sup>3</sup> Chi-square test. <sup>4</sup> Defined as < 38 weeks of gestational age. <sup>5</sup> P-value from a Cox regression analysis.

**Supplementary Table 3.** Relationship between covariates and duration of any breastfeeding

Characteristics	Chi-square test, p-value with missing group included	Chi-square test, p-value, after exclusion of missings	One way anova, p-value
Parental social status	<0.001	<0.001	
Breadwinner's education	<0.001	<0.001	
Maternal marital status, % married	<0.001	<0.001	
Maternal age at birth (years)			<0.001
Attitude towards pregnancy, % wanted	<0.001	<0.001	
Maternal pre-pregnancy BMI	<0.001	<0.001	<0.001 <sup>b</sup>
Smoking in pregnancy, % smoking	<0.001	<0.001	
Smoking during the third trimester, cigarettes/day	<0.001	<0.001	
Gestational weight gain	<0.001	<0.001	0.0001 <sup>b</sup>
Maternal diabetes during pregnancy, % yes	0.003 <sup>a</sup>	<0.001 <sup>a</sup>	
Sex, % boys	0.87	0.87	
Parity			<0.001
Preterm birth <sup>2</sup> , % yes	<0.001	<0.001	
Birth weight (categorical)	<0.001 <sup>a</sup>	<0.001 <sup>a</sup>	
Age at introduction of spoon-feeding	<0.001 <sup>a</sup>	<0.001 <sup>a</sup>	
BMI at 7 years			0.60
41-43-years BMI (kg/m <sup>2</sup> /years)			0.009 <sup>b</sup>
41-43-years BMI ≥ 25 kg/m <sup>2</sup>		<0.001	
41-43-years BMI ≥ 30 kg/m <sup>2</sup>		0.20	

<sup>a</sup> Cells with < 5 individuals.

<sup>b</sup> N < 6044

**Supplementary Table 4.** Associations between duration of any breastfeeding and type 2 diabetes with and without adjustment for covariates, one at a time.

Characteristics, N		Unadjusted HR (95% CI)	Adjusted HR	% change log-scale <sup>a</sup>
<b>Parental social class</b>				
≤ 0.5 months	5,372	1		
>0.5-1 months		0.77 (0.50-1.18)	0.76 (0.50-1.18)	-2.02
>1-2 months		0.89 (0.61-1.30)	0.91 (0.63-1.33)	18.02
>2-4 months		0.69 (0.47-1.02)	0.73 (0.49-1.07)	13.32
> 4 months		0.51 (0.33-0.79)	0.58 (0.37-0.91)	19.31
<b>Breadwinner's education</b>				
≤ 0.5 months	5,259	1		
>0.5-1 months		0.77 (0.50-1.19)	0.76 (0.49-1.18)	-4.19
>1-2 months		0.89 (0.61-1.31)	0.91 (0.62-1.34)	19.48
>2-4 months		0.71 (0.48-1.05)	0.73 (0.50-1.09)	8.94
> 4 months		0.51 (0.32-0.80)	0.57 (0.36-0.90)	16.92
<b>Maternal marital status</b>				
≤ 0.5 months	5,955	1		
>0.5-1 months		0.75 (0.50-1.14)	0.75 (0.50-1.14)	-0.41
>1-2 months		0.88(0.62-1.26)	0.88 (0.62-1.25)	-1.17
>2-4 months		0.65 (0.45-0.95)	0.65 (0.45-0.95)	-0.67
> 4 months		0.48 (0.31-0.74)	0.47 (0.31-0.4)	-0.85
<b>Maternal age</b>				
≤ 0.5 months	6,044	1		
>0.5-1 months		0.74 (0.49-1.11)	0.73 (0.49-1.10)	-2.14
>1-2 months		0.88 (0.62-1.25)	0.87 (0.62-1.24)	-3.45
>2-4 months		0.67 (0.46-0.96)	0.67 (0.46-0.96)	-0.04
> 4 months		0.49 (0.32-0.75)	0.49 (0.32-0.76)	1.68
<b>Attitude towards pregnancy</b>				
≤ 0.5 months	5,828	1		
>0.5-1 months		0.75 (0.49-1.15)	0.75 (0.49-1.15)	0.06
>1-2 months		0.88 (0.61-1.26)	0.88 (0.61-1.26)	0.21
>2-4 months		0.69 (0.48-1.01)	0.69 (0.47-1.02)	0.14
> 4 months		0.51 (0.33-0.79)	0.51 (0.33-0.79)	0.14
<b>Maternal pre-pregnancy BMI</b>				
≤ 0.5 months	5,483	1		
>0.5-1 months		0.77 (0.50-1.19)	0.80 (0.52-1.23)	12.96
>1-2 months		0.88 (0.61-1.28)	0.93 (0.64-1.35)	43.32
>2-4 months		0.71 (0.48-1.04)	0.74 (0.50-1.09)	11.87
> 4 months		0.52 (0.33-0.81)	0.54 (0.35-0.84)	5.69
<b>No. of cigarettes in the third trimester</b>				
≤ 0.5 months	5,952	1		
>0.5-1 months		0.75 (0.49-1.13)	0.74 (0.49-1.12)	-0.95
>1-2 months		0.86 (0.60-1.22)	0.87 (0.61-1.24)	8.20
>2-4 months		0.66 (0.46-0.96)	0.68 (0.47-0.98)	5.67
> 4 months		0.50 (0.32-0.76)	0.54 (0.35-0.84)	13.23

**Supplementary Table 4.** Continued

Characteristics, N	Unadjusted HR (95% CI)	Adjusted HR	% change log-scale <sup>a</sup>
<b>Gestational weight gain</b>			
≤ 0.5 months 3,594	1		
>0.5-1 months	0.91 (0.54-1.54)	0.94 (0.55-1.60)	35.30
>1-2 months	0.77 (0.47-1.27)	0.80 (0.49-1.32)	15.87
>2-4 months	0.85 (0.54-1.36)	0.90 (0.57-1.44)	34.25
> 4 months	0.65 (0.38-1.10)	0.68 (0.40-1.16)	11.79
<b>Maternal diabetes</b>			
≤ 0.5 months 6,043	1		
>0.5-1 months	0.74 (0.49-1.12)	0.76 (0.50-1.15)	7.02
>1-2 months	0.89 (0.63-1.26)	0.91 (0.64-1.30)	23.03
>2-4 months	0.67 (0.47-0.98)	0.69 (0.48-1.00)	5.10
> 4 months	0.49 (0.32-0.75)	0.51 (0.33-0.78)	4.36
<b>Sex</b>			
≤ 0.5 months 6,044	1		
>0.5-1 months	0.74 (0.49-1.11)	0.74 (0.49-1.11)	1.52
>1-2 months	0.88 (0.62-1.25)	0.88 (0.62-1.24)	-2.49
>2-4 months	0.67 (0.46-0.96)	0.67 (0.46-0.97)	0.67
> 4 months	0.49 (0.32-0.75)	0.49 (0.32-0.75)	-0.03
<b>Parity</b>			
≤ 0.5 months 6,044	1		
>0.5-1 months	0.74 (0.49-1.11)	0.75 (0.49-1.12)	4.08
>1-2 months	0.88 (0.62-1.25)	0.89 (0.63-1.27)	13.06
>2-4 months	0.67 (0.46-0.96)	0.68 (0.47-0.98)	3.92
> 4 months	0.49 (0.32-0.75)	0.49 (0.32-0.75)	1.42
<b>Birth weight</b>			
≤ 0.5 months 5,995	1		
>0.5-1 months	0.74 (0.49-1.12)	0.77 (0.51-1.17)	13.70
>1-2 months	0.89 (0.62-1.26)	0.92 (0.65-1.31)	31.86
>2-4 months	0.67 (0.46-0.97)	0.70 (0.48-1.02)	10.64
> 4 months	0.47 (0.31-0.73)	0.50 (0.32-0.78)	7.50
<b>Preterm birth</b>			
≤ 0.5 months 4,867	1		
>0.5-1 months	0.76 (0.48-1.20)	0.77 (0.49-1.23)	7.22
>1-2 months	0.91 (0.61-1.34)	0.93 (0.63-1.37)	20.46
>2-4 months	0.66 (0.43-1.00)	0.67 (0.44-1.02)	4.30
> 4 months	0.46 (0.29-0.75)	0.47 (0.29-0.77)	2.73
<b>Age at spoon feeding</b>			
≤ 0.5 months 5,341	1		
>0.5-1 months	0.75 (0.48-1.17)	0.76 (0.49-1.18)	1.86
>1-2 months	0.89 (0.61-1.30)	0.88 (0.60-1.29)	-3.58
>2-4 months	0.69 (0.47-1.03)	0.71 (0.48-1.05)	5.66
> 4 months	0.50 (0.32-0.78)	0.50 (0.32-0.79)	-0.28

<sup>a</sup> This % is calculated as  $(\log(\text{HR}_{\text{unadjusted}}) - \log(\text{HR}_{\text{adjusted}})) / \log(\text{HR}_{\text{unadjusted}}) * 100$ .

**Supplementary Table 5.** Associations between covariates and type 2 diabetes from bivariate analyses.<sup>a</sup>

<b>Characteristics</b>	<b>HR (95% CI)</b>	<b>P<sup>b</sup></b>
Parental social status		0.0005
Low: 0-6 points	1	
Medium: 7-10 points	0.78 (0.57-1.06)	
High: 11-20 points	0.48 (0.33-0.70)	
Breadwinner's education		0.02
Remedial education	1	
Grade school	1.55 (0.38-6.25)	
High school	1.25 (0.30-5.18)	
College	0.55 (0.12-2.55)	
Maternal marital status	1	0.61
Yes		
No	1.07 (0.82-1.40)	
Maternal age (years)	0.99 (0.97-1.01)	0.34
Attitude toward pregnancy		0.50
Child wanted	1	
Child unwanted	1.10 (0.84-1.43)	
Categories of maternal pre-pregnancy BMI (kg/m <sup>2</sup> )		0.0001
< 18.5	0.70 (0.39-1.26)	
≥ 18.5 & < 25	1	
≥ 25 & < 30	1.85 (1.28-2.67)	
≥ 30	2.86 (1.46-5.59)	
Maternal pre-pregnancy BMI (kg/m <sup>2</sup> )	1.09 (1.06-1.13)	<0.0001
Smoking in pregnancy		0.01
No	1	
Yes	1.41 (1.08-1.83)	
Smoking during the third trimester (cigarettes/day)		0.0009
None	1	
< 3	0.81 (0.44-1.52)	
2-10	1.27 (0.94-1.72)	
11-20	2.01 (1.43-2.83)	
>20	0.66 (0.16-2.68)	
Gestational weight gain (kg)		0.07
< 6	2.05 (1.15-3.65)	
6-8	1.02 (0.58-1.80)	
9-10	1.06 (0.61-1.82)	
11-12	0.80 (0.44-1.45)	
13-15	1	
>16	1.02 (0.60-1.75)	
Gestational weight gain (kg)	0.97 (0.92-1.01)	0.14
Maternal diabetes during pregnancy		0.0005
No	1	
Yes	3.52 (1.74-7.13)	

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Breastfeeding duration and adult T2D

Parity	1.06 (0.96-1.18)	0.23
Birth weight (g)		
≤ 2750	1.48 (1.04-2.10)	0.24
> 2750-3250	1.11 (0.80-1.54)	
> 3250-3750	1	
> 3750-4250	0.91 (0.57-1.45)	
> 4250-4750	0.87 (0.35-2.16)	
>4750	1.32 (0.18-9.49)	
Preterm birth		0.18
No	1	
Yes	1.27 (0.90-1.78)	
Sex		0.03
Boys	1.35 (1.05-1.75)	
Age at introduction of spoon-feeding (months)		0.47
0-2	1	
3-5	0.83 (0.59-1.1.6)	
6-8	0.78 (0.47-1.28)	
9-11	1.45 (0.52-4.03)	

<sup>a</sup> N<6044 if some individuals had missing information on the variable.

<sup>b</sup> P-value from a chi-square test for overall effect of the variable, i.e. that all estimates are = 0.



**Supplementary Table 6.** Duration of any breastfeeding and risk of type 2 diabetes adjusted for factors adjusted for factors that were significantly associated with breastfeeding and type 2 diabetes in the present data.

<b>Breastfeeding (months)</b>	<b>Adjusted<sup>a,b</sup></b>
≤0.5	Reference
>0.5-1	0.76 (0.50-1.15)
>1-2	0.97 (0.68-1.39)
>2-4	0.74 (0.51-1.09)
>4	0.64 (0.41-1.005)

<sup>a</sup> Adjusted for parental social status and education, maternal body mass index, maternal diabetes during pregnancy and smoking quantity during the third trimester.

<sup>b</sup> p-overall=0.20.

**Supplementary Table 7.** Duration of exclusive breastfeeding and risk of type 2 diabetes unadjusted and adjusted for factors early in life

<b>Duration of exclusive breastfeeding (months)</b>	<b>Analytical sample (N=5,675)</b>	
	<b>Unadjusted</b>	<b>Adjusted<sup>a</sup></b>
≤0.5	Reference	Reference
>0.5-1	0.78 (0.53-1.18)	0.84 (0.56-1.27)
>1-2	0.93 (0.66-1.30)	1.08 (0.76-1.55)
>2-4	0.57 (0.39-0.84)	0.71 (0.47-1.07)
>4	0.51 (0.29-0.90)	0.68 (0.38-1.21)

<sup>a</sup> The table shows the hazard ratio and 95% confidence intervals adjusted for parental social status and education, maternal body mass index, maternal diabetes during pregnancy, smoking quantity during the third trimester, gestational weight gain, parity, preterm birth, birth weight and sex.

**Supplementary Table 8.** Characteristics of individuals with information on BMI at 7 years (n=2,426) and those without BMI at 7 years (n=3,618) from among included individuals.<sup>1</sup>

Characteristics	With child BMI (n=2,426)			Without child BMI (n=3,618)			p-value <sup>2</sup>
	N	Mean (SD)	Min, max	N	Mean (SD)	Min, max	
Maternal age at birth (years)	2,426	26.1 (6.1)	14, 48	3,618	25.0 (6.4)	14, 47	<0.001
Maternal pre-pregnancy BMI (kg/m <sup>2</sup> )	2,223	21.9 (3.2)	14.7, 47.8	3,260	21.8 (2.9)	14.8, 46.6	0.22
Parity	2,426	1.9 (1.2)	1, 9	3,618	1.9 (1.2)	1, 9	0.73
Birth weight (kg)	2,399	3.2 (0.6)	0.8, 5.5	3,596	3.2 (0.6)	0.9, 5.5	0.04
7-years BMI (kg/m <sup>2</sup> )	2,426	15.5 (1.4)	11.1, 24.3	NA	NA	NA	NA
41-43-years BMI (kg/m <sup>2</sup> )	1,442	24.9 (4.3)	14.1, 54.9	1,949	25.3 (4.6)	15.9, 49.8	0.005
Characteristics	n		%	n		%	p-value <sup>3</sup>
Parental social status							0.02
Low: 0-6 points	481/2,233		21.5	760/3,139		24.2	
Medium: 7-10 points	944		42.3	1,344		42.8	
High: 11-20 points	808		36.2	1,035		33.0	
Breadwinner's education							0.003
Remedial education	20/2,178		0.9	49/3,081		1.6	
Grade school	1,418		65.1	2,110		68.5	
High school	486		22.3	621		20.2	
College	254		11.7	301		9.8	
Maternal marital status, % married	1,574/2,394		65.8	2,199/3,561		61.8	0.002
Attitude toward pregnancy, % wanted	1,249/2,353		46.9	1,453/3,475		41.8	<0.001
Categories of maternal pre-pregnancy BMI (kg/m <sup>2</sup> )							0.02
< 18.5	182/2,223		8.2	294/3,260		9.0	
≥ 18.5 & < 25	1,783		80.2	2,600		79.8	
≥ 25 & < 30	208		9.4	325		10.0	
≥ 30	50		2.3	41		1.3	
Maternal diabetes during pregnancy, % yes	27/2,426		1.1	35/3,617		1.0	0.58
Smoking during the third trimester, cigarettes/day							0.13
None	1,191/2,396		49.7	1,679/3,556		47.2	
< 3	162		6.7	255		7.2	
2-10	680		28.4	1,111		31.2	
11-20	328		13.7	454		12.8	
> 20	35		1.5	57		1.6	

**Supplementary table 8.** Continued.

Characteristics	n	%	n	%	p-value <sup>3</sup>
Gestational weight gain (kg)					0.31
< 6	104/1,498	6.9	173/2,096	8.3	
6-8	260	17.4	337	16.1	
9-10	265	17.7	393	18.8	
11-12	257	17.2	361	17.2	
13-15	327	21.8	411	19.6	
> 16	285	19.0	421	20.1	
Died during the first year of life, % yes	0/2,426	0	0/3,618	0	NA
Sex, % boys	1,195/2,426	49.3	1,862/3,618	51.5	0.09
Preterm birth <sup>4</sup> , % yes	357/2,002	17.8	545/2,865	19.0	0.29
Birth weight (g)					0.36
≤ 2750	440/2,399	18.3	713/3,596	19.8	
> 2750-3250	774	32.3	1,199	33.3	
> 3250-3750	792	33.0	1,143	31.9	
> 3750-4250	318	13.3	427	11.9	
> 4250-4750	67	2.8	98	2.7	
> 4750	8	0.3	16	0.4	
Duration of any breastfeeding (months)					<0.001
≤ 0.5	635/2,426	26.2	1,107/3,618	30.6	
> 0.5-1	316	13.0	511	14.1	
> 1-2	454	18.7	655	18.1	
> 2-4	553	22.8	688	19.0	
> 4	468	19.3	657	18.2	
Age at introduction of spoon feeding					0.81
0-2 months	403/2,203	18.3	554/3,138	17.7	
3-5 months	1,486	67.5	2,155	68.7	
6-8 months	287	13.0	390	12.4	
9-11 months	27	1.2	39	1.2	
	<b>Incidence rate</b>	<b>95% CI</b>	<b>Incidence rate</b>	<b>95% CI</b>	<b>p-value<sup>5</sup></b>
Type 2 diabetes	1.73	(1.42-2.10)	1.57	(1.33-1.86)	0.49

NA: not applicable.

<sup>1</sup> The table provides the number of individuals with information available and the mean or percentages within a given category of the characteristics. <sup>2</sup> P-value from t-tests. <sup>3</sup> Chi-square test. <sup>4</sup>Defined as < 38 weeks of gestational age. <sup>5</sup> P-value from a Cox regression analysis.

**Supplementary Table 9.** Characteristics of those who answered the adult questionnaire (n=3,443) and those who did not (n=2,601) from among included individuals.<sup>1</sup>

Characteristics	Answer (n=3,443)			No answer (n=2,601)			p-value <sup>2</sup>
	N	Mean (SD)	Min, max	N	Mean (SD)	Min, max	
Maternal age at birth (years)	3,443	25.7 (6.6)	14, 46	2,601	25.1 (6.4)	14, 48	0.001
Maternal pre-pregnancy BMI (kg/m <sup>2</sup> )	3,160	21.7 (2.9)	14.8, 47.8	2,323	21.9 (3.1)	14.7, 46.3	0.04
Parity	3,443	1.9 (1.2)	1, 9	2,601	1.9 (1.2)	1, 9	0.61
Birth weight (kg)	3,419	3.2 (0.6)	0.8, 5.3	2,576	3.2 (0.6)	0.9, 5.5	0.01
7-years BMI (kg/m <sup>2</sup> )	1,462	15.4 (1.4)	12.0, 24.3	964	15.5 (1.4)	11.1, 21.1	0.02
Characteristics	n		%	n		%	P-value <sup>3</sup>
Parental social status							<0.001
Low: 0-6 points	632/3,080		20.5	609/2,292		26.6	
Medium: 7-10 points	1,286		41.8	1,002		43.7	
High: 11-20 points	1,162		37.7	681		29.7	
Breadwinner's education							<0.001
Remedial education	31/3,023		1.0	38/2,236		1.7	
Grade school	1,944		64.3	1,584		70.8	
High school	685		22.7	422		18.9	
College	363		12.0	192		8.6	
Maternal marital status, % married	2,256/3,405		66.3	1,517/2,550		59.5	<0.001
Attitude toward pregnancy, % wanted	1,548/3,335		46.4	1,009/2,493		40.5	<0.001
Categories of maternal pre-pregnancy BMI (kg/m <sup>2</sup> )							0.13
< 18.5	272/3,160		8.6	204/2,323		8.8	
≥ 18.5 & < 25	2,546		80.6	1,837		79.1	
≥ 25 & < 30	300		9.5	233		10.0	
≥ 30	42		1.3	49		2.1	
Maternal diabetes during pregnancy, % yes	33/3,443		1.0	29/2,600		1.1	0.55
Smoking during the third trimester (cigarettes/day)							0.001
None	1,684/3,401		49.5	1,186/2,551		46.5	
< 3	248		7.3	169		6.6	
2-10	1,018		29.9	773		30.3	
11-20	412		12.1	370		14.5	
> 20	39		1.2	53		2.1	

**Supplementary table 9.** Continued.

<b>Characteristics</b>	<b>n</b>	<b>%</b>	<b>n</b>	<b>%</b>	<b>P-value<sup>3</sup></b>
Gestational weight gain (kg)					0.45
< 6	155/2,106	7.4	122/1,488	8.2	
6-8	337	16.0	260	17.5	
9-10	402	19.1	258	17.2	
11-12	355	16.9	263	17.7	
13-15	444	21.1	294	19.8	
>16	413	19.6	293	19.7	
Died during the first year of life, % yes	0/3,443	0	0/2,601	0	NA
Sex, % boys	1,588/3,443	46.1	1,469/2,601	56.5	<0.001
Preterm birth <sup>4</sup> , % yes	499/2,799	17.8	403/2,068	19.5	0.14
Birth weight (g)					0.003
≤ 2750	613/3,419	17.9	540/2,576	21.0	
> 2750-3250	1,145	33.5	828	32.1	
> 3250-3750	1,120	32.8	815	31.6	
> 3750-4250	431	12.6	314	12.2	
> 4250-4750	103	3.0	62	2.4	
> 4750	7	0.2	17	0.7	
Duration of any breastfeeding (months)					<0.001
≤ 0.5	894/3,443	26.0	848/2,601	32.6	
> 0.5-1	456	13.2	371	14.3	
> 1-2	641	18.6	468	18.0	
> 2-4	745	21.6	496	19.1	
> 4	707	20.5	418	16.1	
Age at introduction of spoon feeding (months)					0.77
0-2	565/3,100	17.5	392/2,241	17.5	
3-5	2,109	68.4	1,532	68.4	
6-8	391	12.8	286	12.8	
9-11	35	1.4	31	1.4	
	<b>Incidence rate</b>	<b>95% CI</b>	<b>Incidence rate</b>	<b>95% CI</b>	<b>p-value<sup>5</sup></b>
Type 2 diabetes	1.39	(1.16-1.67)	1.99	1.66-2.38)	0.003

NA: Not applicable.

<sup>1</sup> The table provides the number of individuals with information available and the percentages within a given category of the characteristics. <sup>2</sup> P-value from t-tests. <sup>3</sup> Chi-square test. <sup>4</sup> Defined as < 38 weeks of gestational age.

<sup>5</sup> P-value from a Cox regression analysis.

Note: Of individuals who returned the adult health questionnaire, those who had no information on adult BMI (n=52) were generally not different from those who reported adult BMI (n=3,391; not shown).

**Supplementary Table 10.** Associations between duration of any breastfeeding and type 2 diabetes adjusted for factors early in life and for BMI in childhood (N=2,426) and adulthood (N=3,353) respectively.

<b>Duration of any breastfeeding (mo)</b>	<b>In sample with BMI at 7 years</b>	<b>Adjusted for BMI at 7 years<sup>a</sup></b>
≤ 0.5	Reference	Reference
> 0.5-1	0.80 (0.43-1.50)	0.81 (0.43-1.51)
> 1-2	0.82 (0.47-1.42)	0.83 (0.48-1.44)
> 2-4	0.67 (0.39-1.16)	0.66 (0.38-1.15)
> 4	0.51 (0.27-0.96)	0.50 (0.26-0.95)
	<b>In sample with BMI at 41-43 years</b>	<b>Adjusted for BMI at 41-43 years<sup>b</sup></b>
≤ 0.5	Reference	Reference
> 0.5-1	0.91 (0.46-1.80)	0.91 (0.46-1.79)
> 1-2	1.07 (0.60-1.92)	1.09 (0.61-1.95)
> 2-4	0.86 (0.48-1.55)	0.92 (0.51-1.67)
> 4	0.38 (0.17-0.84)	0.44 (0.20-0.98)
	<b>Adjusted for putative confounding factors</b>	
	<b>In sample with BMI at 7 years<sup>c</sup></b>	<b>Adjusted for BMI at 7 years<sup>a,c</sup></b>
≤ 0.5	Reference	Reference
> 0.5-1	0.91 (0.48-1.73)	0.96 (0.51-1.81)
> 1-2	1.00 (0.57-1.77)	1.05 (0.59-1.85)
> 2-4	0.84 (0.47-1.50)	0.87 (0.49-1.56)
> 4	0.77 (0.39-1.51)	0.78 (0.40-1.52)
	<b>In sample with BMI at 41-43 years<sup>c</sup></b>	<b>Adjusted for BMI at 41-43 years<sup>b,c</sup></b>
≤ 0.5	Reference	Reference
> 0.5-1	1.09 (0.53-2.21)	1.07 (0.53-2.18)
> 1-2	1.38 (0.74-2.55)	1.40 (0.75-2.62)
> 2-4	1.10 (0.59-2.06)	1.15 (0.61-2.14)
> 4	0.52 (0.23-1.20)	0.58 (0.25-1.34)

<sup>a</sup> BMI was categorized into tertiles

<sup>b</sup> BMI at 41-43 years was categorized as normal weight (< 25 kg/m<sup>2</sup>), overweight (≥ 25 to < 30 kg/m<sup>2</sup>), obese (≥ 30 kg/m<sup>2</sup>). Of the 3,391 individuals (112 cases) who had information on BMI at 41-43 years of age, 3,353 individuals (85 cases) were followed to later than age 43 years and thus had an adult BMI measure before they exited the study (due to type 2 diabetes, death, emigration or loss to follow-up).

<sup>c</sup> Adjusted for parental social status and education, maternal body mass index, maternal diabetes during pregnancy, number of cigarettes during the third trimester, gestational weight gain, pregnancy number, preterm birth, birth weight and sex.