

Data supplement

Table DS1 Difference in maternal characteristics of young women at 21-year follow-up and those lost to follow-up (<i>n</i> =3474)			
	Mothers of young women with 21-year data (<i>n</i> =1223)	Mothers of young women lost to follow-up (<i>n</i> =2251)	<i>P</i> ^a
Smoker during pregnancy			
Prevalence, %	35.8	44.1	<0.001
OR (95% CI)	1.0	1.4 (1.3–1.7)	
Anxiety disorder during pregnancy			
Prevalence, %	14.7	20.7	<0.001
OR (95% CI)	1.0	1.4 (1.2–1.7)	
Unmarried, not cohabitating			
Prevalence, %	8.0	8.8	0.66
OR (95% CI)	1.0	1.0 (0.8–1.3)	
Depressed during pregnancy			
Prevalence, %	7.0	8.7	0.08
OR (95% CI)	1.0	1.3 (1.0–1.7)	
Aboriginal or Islander parent			
Prevalence, %	6.3	5.7	0.88
OR (95% CI)	1.0	1.0 (0.8–1.4)	
Did not complete secondary schooling			
Prevalence, %	16.1	18.4	0.09
OR (95% CI)	1.0	1.2 (1.0–1.4)	
19 years or less at time of first delivery of live child			
Prevalence, %	25.3	32.8	<0.001
OR (95% CI)	1.0	1.8 (1.5–2.0)	
First antenatal clinic visit at or after 25 weeks gestation			
Prevalence, %	19.2	18.5	0.03
OR (95% CI)	1.0	1.0 (0.9–1.2)	
Family income <\$10400 per annum during pregnancy			
Prevalence, %	32.9	34.3	0.41
OR (95% CI)	1.0	1.3 (1.1–1.5)	
OR, odds ratio.			
a. χ^2 -test of independence.			

Table DS2 Early life, family, adolescent and demographic characteristics of the young women by pregnancy outcomes (<i>n</i> =1223)					
	Never pregnant (<i>n</i> =943) %	Live birth (<i>n</i> =97) %	Abortion (<i>n</i> =101) %	Miscarriage (<i>n</i> =82) %	<i>P</i> ^a
Maternal characteristics (measured during pregnancy)					
Mother didn't complete secondary school	12.9	26.8	18.0	25.6	<0.001
Mother was 19 years of age or less when first child born	21.6	38.1	34.7	46.3	<0.001
Mother smoked during pregnancy	32.8	53.6	63.4	53.6	<0.001
Mother was anxious during pregnancy	13.9	15.5	18.8	22.0	0.16
Mother was depressed during pregnancy	4.9	5.2	6.9	7.3	0.67
Family characteristics (measured at pregnancy and 14-year follow-up)					
Low family income (<\$10400) during year of pregnancy	27.7	32.6	40.3	41.6	<0.001
Birth father not present in the family home at 14	24.7	40.0	37.0	51.6	<0.001
Mother reported many problems communicating with child at 14	8.3	18.6	10.9	13.4	0.028
Adolescent behaviour of child (measured at 14)					
Mother-report of aggressive/delinquent behaviour (CBCL)	4.3	11.3	12.9	8.5	<0.001
Self-report of anxious/depressed behaviour (YSR)	12.2	17.5	19.8	19.5	0.038
Self-report of average or below overall school performance	43.1	64.9	62.4	65.4	<0.001
Regular smoker (at least 1–9 cigarettes weekly or more)	9.3	28.1	30.7	27.5	<0.001
Regular heavy alcohol user (at least 1–2 glasses/weekly)	4.0	11.5	10.1	6.3	<0.001
Adolescent behaviour (reported at 21-year follow-up)					
Self-report of first sexual intercourse at 15 years or less	21.8	35.4	56.4	50.6	<0.001
Self-report of first use of cannabis at 15 years or less	15.3	26.8	32.7	34.2	<0.001
Self-reported penetrative child sexual abuse (16 years or less)	5.3	13.4	13.9	22.2	<0.001
Ever raped	6.4	16.5	19.8	27.2	<0.001
Demographic factors (measured at 21 years)					
20 years old (range 18 to 23 years)	47.1	48.5	58.4	39.0	<0.001
Did not complete secondary schooling	9.8	38.1	36.0	49.4	<0.001
First left the parental home at 17 years or less	16.9	47.4	48.0	58.0	<0.001
Lives independently of parents	32.3	77.3	53.5	66.7	<0.001
Married or cohabitating	18.1	59.8	29.7	51.2	<0.001
CBCL, Child Behaviour Checklist; YSR, Youth Self-Report. a. χ^2 -test of independence					

Table DS3 Odds ratios (OR) (95% CI) for pairwise comparison of fully adjusted model of risk for lifetime DSM-IV disorders in young women who reported a birth, abortion or miscarriage ($n=1223$)

Pregnancy outcomes ^b	Lifetime DSM-IV disorders at 21-year follow-up ^a											
	Nicotine		Alcohol		Cannabis		Other illicit substance use		Affective		Anxiety	
	OR (95% CI)	<i>P</i>	OR (95% CI)	<i>P</i>	OR (95% CI)	<i>P</i>	OR (95% CI)	<i>P</i>	OR (95% CI)	<i>P</i>	OR (95% CI)	<i>P</i>
Never pregnant ^c	1.0		1.0		1.0		1.0		1.0		1.0	
Live birth	2.1 (1.2–3.8)	0.01	0.9 (0.5–1.7)	0.76	0.8 (0.4–1.5)	0.49	1.0 (0.4–2.6)	0.94	0.7 (0.4–1.2)	0.16	1.0 (0.6–1.6)	0.98
Never pregnant ^c	1.0		1.0		1.0		1.0		1.0		1.0	
Abortion	2.5 (1.5–4.2)	0.001	2.1 (1.3–3.5)	0.003	1.5 (0.9–2.5)	0.12	3.6 (2.0–6.7)	<0.001	1.5 (0.9–2.4)	0.09	1.5 (1.0–2.4)	0.07
Never pregnant ^c	1.0		1.0		1.0		1.0		1.0		1.0	
Miscarriage	2.1 (1.2–3.9)	0.02	1.7 (0.9–3.1)	0.08	1.4 (0.8–2.5)	0.30	2.6 (1.2–5.4)	0.01	1.4 (0.8–2.4)	0.24	1.5 (0.9–2.5)	0.14
Live birth ^c	1.0		1.0		1.0		1.0		1.0		1.0	
Abortion	1.2 (0.6–2.3)	0.66	2.4 (1.1–4.9)	0.02	1.9 (0.9–4.0)	0.09	3.5 (1.3–9.6)	0.02	2.2 (1.1–4.3)	0.02	1.5 (0.8–2.9)	0.17
Live birth ^c	1.0		1.0		1.0		1.0		1.0		1.0	
Miscarriage	1.0 (0.5–2.1)	0.97	1.9 (0.8–4.2)	0.12	1.7 (0.8–3.8)	0.18	2.5 (0.9–7.2)	0.09	2.0 (1.0–4.2)	0.05	1.5 (0.8–2.9)	0.22
Miscarriage ^c	1.0		1.0		1.0		1.0		1.0		1.0	
Abortion	1.2 (0.6–2.4)	0.64	1.3 (0.6–2.6)	0.52	1.1 (0.6–2.2)	0.77	1.4 (0.6–3.2)	0.41	1.1 (0.6–2.1)	0.82	1.0 (0.5–2.0)	0.94
Abortion ^{c,d}	1.0		1.0		1.0		1.0		1.0		1.0	
Miscarriage	0.9 (0.4–1.7)	0.64	0.8 (0.4–1.6)	0.52	0.9 (0.5–1.8)	0.79	0.7 (0.3–1.6)	0.41	0.9 (0.5–1.8)	0.82	1.0 (0.5–1.9)	0.94
Live birth	0.9 (0.4–1.7)	0.66	0.4 (0.2–0.9)	0.02	0.5 (0.3–1.1)	0.09	0.3 (0.1–0.8)	0.02	0.5 (0.2–0.9)	0.02	0.7 (0.4–1.2)	0.17
Never pregnant	0.4 (0.2–0.7)	0.001	0.5 (0.3–0.8)	0.003	0.7 (0.4–1.1)	0.12	0.3 (0.2–0.5)	<0.001	0.7 (0.4–1.1)	0.09	0.7 (0.4–1.0)	0.07

a. Results in bold are significant.
b. Fully adjusted for early life and family factors, adolescent behaviours reported at the 14-year follow-up and then at the 21-year follow-up, and cohort child demographic factors reported at 21.
c. Reference group.
d. Comparison to Fergusson *et al*² relative estimates.

Table DS4 Odds ratios (OR) (95% CI) for lifetime DSM-IV disorders in young women from sensitivity analyses						
	Lifetime DSM-IV disorders at 21-year follow-up, OR (95% CI)					
	Nicotine	Alcohol	Cannabis	Other illicit substance use	Affective	Anxiety
Lifetime DSM-IV ^{a,b}						
Live birth	2.1 (1.2–3.8)	0.9 (0.5–1.7)	0.8 (0.4–1.5)	1.0 (0.4–2.6)	0.7 (0.4–1.2)	1.0 (0.6–1.6)
Abortion	2.5 (1.5–4.2)	2.1 (1.3–3.5)	1.5 (0.9–2.5)	3.6 (2.0–6.7)	1.5 (0.9–2.4)	1.5 (1.0–2.4)
Miscarriage	2.1 (1.2–3.9)	1.7 (0.9–3.1)	1.4 (0.8–2.5)	2.6 (1.2–5.4)	1.4 (0.8–2.4)	1.5 (0.9–2.5)
1. 17 participants that reported an abortion and miscarriage removed ^{a,b}						
Live birth	2.1 (1.2–3.8)	0.9 (0.5–1.7)	0.8 (0.4–1.5)	1.0 (0.4–2.6)	0.7 (0.4–1.2)	1.0 (0.6–1.6)
Abortion	2.5 (1.5–4.4)	2.0 (1.2–3.4)	1.5 (0.9–2.5)	3.2 (1.7–6.2)	1.6 (1.0–2.6)	1.6 (1.1–2.7)
Miscarriage	2.4 (1.3–4.5)	1.6 (0.9–3.1)	1.3 (0.7–2.4)	2.3 (1.0–4.9)	1.3 (0.8–2.4)	1.5 (0.9–2.6)
2. 68 participants that reported an birth + either abortion or miscarriage removed ^{a,b}						
Live birth	2.0 (1.1–3.6)	0.9 (0.5–1.7)	0.8 (0.4–1.6)	1.0 (0.4–2.6)	0.7 (0.4–1.2)	1.0 (0.6–1.6)
Abortion	2.5 (1.4–4.5)	2.0 (1.2–3.6)	1.2 (0.7–2.3)	3.0 (1.5–6.1)	1.5 (0.9–2.6)	1.4 (0.8–2.4)
Miscarriage	3.1 (1.4–6.8)	1.8 (0.8–4.0)	1.5 (0.7–3.3)	2.5 (1.0–6.7)	1.2 (0.6–2.6)	1.7 (0.8–3.4)
3. Participants where behaviour reported at the 14-year follow-up removed ^{a,b,c}						
Live birth	2.0 (1.0–4.1)	0.8 (0.4–1.6)	Not available	Not available	0.5 (0.3–1.0)	0.7 (0.4–1.2)
Abortion	3.0 (1.6–5.7)	2.2 (1.3–3.7)			1.5 (0.9–2.5)	1.7 (1.0–2.9)
Miscarriage	2.5 (1.2–5.3)	1.8 (1.0–3.3)			1.6 (0.9–2.8)	1.9 (1.0–3.3)
4. Participants where child-reported externalising behaviour reported at the 14-year follow-up removed ^{a,b,c,d}						
Live birth	2.0 (1.1–3.8)	0.9 (0.5–1.9)	0.6 (0.3–1.4)	1.7 (0.7–4.4)	0.7 (0.4–1.2)	0.9 (0.5–1.5)
Abortion	2.3 (1.3–4.1)	2.4 (1.4–4.2)	1.6 (0.9–2.9)	3.2 (1.6–6.6)	1.5 (0.9–2.5)	1.5 (0.9–2.5)
Miscarriage	1.7 (0.9–3.3)	1.9 (1.0–3.6)	1.8 (1.0–3.3)	3.1 (1.4–7.0)	1.2 (0.7–2.2)	1.3 (0.7–2.2)
5. Participants where DSM disorders occurred before or at the same age of 1st sexual intercourse removed ^{a,b}						
Live birth	1.8 (0.9–3.5)	0.6 (0.2–1.4)	0.7 (0.3–1.8)	1.6 (0.6–4.5)	0.7 (0.4–1.5)	2.9 (1.2–6.7)
Abortion	1.7 (0.9–3.1)	2.0 (1.2–3.6)	1.5 (0.8–2.9)	2.9 (1.4–6.2)	1.9 (1.1–3.3)	2.9 (1.2–6.7)
Miscarriage	2.3 (1.2–4.4)	1.9 (1.0–3.7)	1.3 (0.6–2.9)	3.0 (1.3–7.1)	1.7 (0.9–3.4)	2.5 (0.9–6.5)
a. Reference group – never pregnant.						
b. Fully adjusted for early life and family factors, adolescent behaviours reported at the 14-year follow-up and then at the 21-year follow-up, and cohort child demographic factors reported at 21.						
c. Individuals reported problem behaviours at the 14-year follow-up removed: ever smoked (<i>n</i> =167) removed from DSM-IV nicotine disorders; heavy alcohol use (<i>n</i> =63) removed from DSM-IV alcohol disorders; anxious-depressed behaviour (<i>n</i> =168) removed from DSM-IV affective and anxiety disorders.						
d. Young women with self-reported (<i>n</i> =99) aggression/delinquent behaviour at the 14-year follow-up were removed and all lifetime DSM-IV disorders reassessed.						

Table DS5 Odds ratios (95% CI) for DSM-IV disorders in young women from weighted analysis						
	DSM-IV disorders at 21-year follow-up, OR (95% CI)					
	Nicotine	Alcohol	Cannabis	Other illicit substance use	Affective	Anxiety
Lifetime DSM-IV ^{a,b}						
Live birth	2.1 (1.2–3.8)	0.9 (0.5–1.7)	0.8 (0.4–1.5)	1.0 (0.4–2.6)	0.7 (0.4–1.2)	1.0 (0.6–1.6)
Abortion	2.5 (1.5–4.2)	2.1 (1.3–3.5)	1.5 (0.9–2.5)	3.6 (2.0–6.7)	1.5 (0.9–2.4)	1.5 (1.0–2.4)
Miscarriage	2.1 (1.2–3.9)	1.7 (0.9–3.1)	1.4 (0.8–2.5)	2.6 (1.2–5.4)	1.4 (0.8–2.4)	1.5 (0.9–2.5)
Lifetime DSM-IV: weighted analysis ^{a,b}						
Live birth	1.9 (1.1–3.5)	1.1 (0.6–2.1)	0.9 (0.4–1.8)	1.0 (0.4–2.5)	0.7 (0.4–1.2)	0.9 (0.6–1.5)
Abortion	2.4 (1.4–4.1)	2.2 (1.3–3.7)	1.5 (0.9–2.6)	3.6 (1.9–6.7)	1.5 (0.9–2.5)	1.4 (0.9–2.2)
Miscarriage	2.1 (1.1–4.2)	1.9 (1.1–3.5)	1.5 (0.8–2.7)	2.4(1.2–4.8)	1.4 (0.8–2.5)	1.6 (0.9–2.8)
12-month DSM-IV disorders ^{a,b}						
Live birth	2.1 (1.1–3.9)	0.9 (0.5–1.7)	0.4 (0.1–1.9)	1.3 (0.3–6.2)	0.7 (0.4–1.5)	0.9 (0.6–1.5)
Abortion	2.2 (1.3–3.9)	2.0 (1.2–3.4)	1.5 (0.6–3.5)	3.6 (1.4–9.6)	1.9 (1.1–3.2)	1.6 (1.0–2.5)
Miscarriage	2.0 (1.0–3.8)	1.6 (0.9–3.1)	0.9 (0.3–2.7)	3.5 (1.1–11.2)	1.2 (0.6–2.3)	1.2 (0.7–2.1)
12-month DSM-IV disorders: weighted analysis ^{a,b}						
Live birth	1.9 (1.0–3.7)	0.4 (0.1–1.2)	0.5 (0.1–2.5)	1.1 (0.2–5.4)	0.7 (0.4–1.4)	0.9 (0.5–1.4)
Abortion	2.2 (1.2–3.9)	2.8 (1.5–5.3)	1.4 (0.6–3.1)	3.9 (1.7–9.2)	1.8 (1.1–3.1)	1.4 (0.9–2.3)
Miscarriage	1.9 (0.9–4.0)	0.8 (0.3–2.3)	0.9 (0.3–2.8)	3.1 (1.0–9.3)	1.2 (0.6–2.3)	1.3 (0.7–2.3)
a. Reference group – never pregnant.						
b. Fully adjusted for maternal and family factors.						