Online Resource 1: Assessment of socio-demographic and health behavioural variables

Variable	Method of measurement
Age	Maternal age at delivery was calculated based on the mother's self-reported date of birth and the date of the child's birth.
Ethnicity	Ethnicity was self-reported at 32 weeks' gestation and classified as "white" or "other ethnicity" owing to the small numbers of women in the sample with non-white ethnicity.
Marital	Marital status was self-reported at 8 weeks' gestation with the options "never
Status	married", "widowed", "divorced", "separated", "1st marriage" or "marriage
	2/3". This was coded as a dichotomous variable "married" or "not married"
Parity	Parity (defined as the number of previous pregnancies which resulted in a live
	birth or stillbirth) was calculated at 18 weeks' gestation based on the number of
	previous pregnancies each participant reported with the number of
G! I (miscarriages, abortions or terminations that they reported subtracted from this.
Singleton or	Pregnancy size (i.e. singleton, twin, triplet or quadruplet pregnancy) was
multiple	obtained from routinely collected data and used as a dichotomous variable in
pregnancy	the analyses to indicate singleton or multiple pregnancy, as the proportion of participants with triplet or quadruplet pregnancies was extremely low.
Educational	At 32 weeks' gestation, women were asked to indicate which educational
level	qualifications they had received (e.g. A-Levels, Apprenticeship, State
icver	Registered nurse). These answers were coded for analysis as an ordered
	categorical variable indicating highest education qualification: none, Certificate
	of Secondary Education or introductory-intermediate vocational qualification
	(e.g. shorthand typing, apprenticeship, City & Guilds intermediate technical
	qualification); O level; A level, or degree level. Women who left this question
	blank were assumed to have no educational qualifications.
Occupation	Women reported their current or most recent occupation at 32 weeks'
	gestation. This was classified using the Office of Population Censuses and
	Surveys (1991) standard occupational classifications as I (professional), II
	(managerial or technical), IIIa (routine non-manual), IIIb (skilled manual), IV
	(partly skilled) and V (unskilled work). This variable was used to indicate
Social	socio-economic status for the interaction term (see Statistical Methods). At 12 weeks' gestation, women were asked about their social support (10
support	questions, e.g. "My partner provides the emotional support I need", "I believe
support	in moments of difficulty my neighbours would help me") and social network
	(10 questions, e.g. "Overall, would you say you belong to a close circle of
	friends", "How many of your family and friends would help you in times of
	trouble?"). These 20 items were combined to give an overall score for social
	support (range 6-59) which was used as a continuous variable (given in tertiles
	in the characteristics tables).
Stressful life	At 18 weeks' gestation, women were asked to indicate which stressful life
events	events they had experienced during their pregnancy so far based on a list of 39
	possible items (example life events include: a friend or relative was ill, you had
	problems at work, your house or car was burgled, your partner was emotionally cruel to you, you were bleeding and thought you might miscarry). This was
	used as a continuous variable (range 0 to 18) with higher scores indicating
	more stressful life events during pregnancy.
Drug use	At 18 weeks' gestation, women reported whether they had smoked cannabis
6	during the first trimester or taken other drugs (amphetamines, barbiturates,
	crack, cocaine, heroin, methadone, ecstasy, other). This was coded as a
	dichotomous variable indicating no drug use or any drug use.
Alcohol	At 18 weeks' gestation, women reported their frequency of alcohol
consumption	consumption in the first trimester (never, <1 glass/week, ≥1 glass/week, 1-2

Variable	Method of measurement
	glasses/day, 3-9 glasses/day, ≥10 glasses/day).
Smoking	At 18 weeks' gestation, women were asked whether they smoked cigarettes, cigars, or pipes during the first three months of pregnancy. This was coded as a dichotomous variable indicating whether women smoked or not.
Physical activity	At 18 weeks' gestation, women reported how many hours per week they currently spent doing each of the following activities: jogging, aerobics, antenatal exercise, keep fit, yoga, squash, tennis or badminton, swimming, brisk walking, weight training, cycling or other exercise. These answers were pooled into one variable which indicated no physical activity, one hour or less per week, or at least two hours per week.