

Supplementary file 1: Description of data fields used in the study

Variable Name	Database Source	Variable Description/Values	Notes
Mother_ID	N/A - study specific	Unique mother identifier	1516-0613/' followed by an anonymous identifier
Baby_ID	N/A - study specific	Unique baby identifier	Mother_ID followed by delivery sequence number followed by a baby sequence number. The baby sequence number for multiple babies from same delivery not necessarily in correct order due to missing CHI numbers.
Delivery_Seq_No	N/A - study specific	Delivery sequence number of mother	
Gest_Diabetes	SMR02	1: Yes, Gestational diabetes (diagnosed during this pregnancy) 0: Yes, Pre-existing diabetes (diagnosed before pregnancy) & No (no diabetes during this pregnancy) Missing: Yes, Time of diagnosis unknown & Not Known	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=D&ID=214&Title=Diabetes
Gest_Hypertension	SMR02/SMR01	1: ICD 10 code O13.X 0: All other codes	Flagged codes cover gestational hypertension
Pre_Eclampsia	SMR02/SMR01	1: ICD 10 code O14._ 0: All other codes	Flagged codes cover pre-eclampsia
Placental_Abruption	SMR02/SMR01	1: ICD 10 code O45._ 0: All other codes	Flagged codes cover placental abruption
Placental_Praevia	SMR02/SMR01	1: ICD 10 code O44._ 0: All other codes	Flagged codes cover placenta praevia

Postpartum_Haemorrhage	SMR02/SMR01	1: ICD 10 code O72._ 0: All other codes	Flagged codes cover postpartum haemorrhage
Caesarean_Delivery	SMR02	1: Elective (planned) caesarean section & Emergency and unspecified caesarean section 0: All other codes	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=M&ID=322&Title=Mode of Delivery - Babies 1 to 3
Labour_Induction	SMR02	1: 1-8 - Induction of labour codes 0: 0, None Missing: 9, Not known	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=I&ID=295&Title=Induction of Labour
SGA	SMR02	1: Birthweight ≤10th percentile 0: Birthweight >10th percentile	Small for gestational age flag
LGA	SMR02	1: Birthweight ≥90th percentile 0: Birthweight <90th percentile	Large for gestational age flag
Preterm_Delivery	SMR02	1: Estimated gestation < 37 weeks 0: Estimated gestation ≥ 37 weeks and ≤ 42 weeks Missing: otherwise	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=E&ID=242&Title=Estimated Gestation
Postterm_Delivery	SMR02	1: Estimated gestation > 42 weeks 0: Estimated gestation ≥ 37 weeks and ≤ 42 weeks Missing: otherwise	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=E&ID=242&Title=Estimated Gestation
Apgar_Score	SMR02	1: Apgar score at 5 mins < 7 0: Apgar score at 5 mins ≥ 7	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=A&ID=88&Title=Apgar Score - Babies 1 to 3
Maternal_Obesity	SMR02	1: Obese status 0: Overweight, Healthy or underweight status	Adults with BMI ≥ 30 classed as obese. BMI of girls aged 2 - 19 years old standardized using UK1990 growth reference values and z-score ≥ 6/3 (98th centile) classed as obese.

Maternal_Overweight_Obesity	SMR02	1: Overweight or Obese status 0: Healthy or underweight status	Adults with BMI ≥ 25 classed as overweight or obese. BMI of girls aged 2 - 19 years old standardized using UK1990 growth reference values and z-score $\geq 4/3$ (91st centile) classed as overweight or obese.
Age	SMR02	Age of mother at delivery (in years)	
Parity	SMR02	Total number of previous pregnancies	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=P&ID=409&Title=Previous Pregnancies
Deprivation	SMR02	Carstairs 2001 quintiles for Scotland	1=least deprived; 5=most deprived
Smoking_Status	SMR02	1: Yes 0: No Missing: Not known	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=S&ID=456&Title=Smoker During Pregnancy
Multiple_births	SMR02	1: More than one birth this pregnancy 0: Single birth	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=N&ID=349&Title=Number of Births this Pregnancy
Multiple_births_in_NRS	NRS Births	1: Multiple babies found for this mother's delivery in NRS Births	Multiple babies recorded in NRS Births but only a single baby recorded in SMR02
Previous_Caesarean_section	SMR02	1: More than zero 0: Zero	http://www.ndc.scot.nhs.uk/Dictionary-A-Z/Definitions/index.asp?Search=P&ID=406&Title=Previous Caesarean Sections