

Supplementary Materials

Supplementary Table 1: Core data for birth cohort dataset modules

Dataset modules	Data	Additional information
Maternal socio-demographics	Week/Date of birth	
	Ethnicity	
	Deprivation Quintile	By locality at pregnancy start
	Rural/urban	By locality at pregnancy start
	Education	
	Qualifications	
	Occupation	
Baby socio-demographics	Date of death	
	Week/Date of birth	
	Sex	
	Ethnicity	
	Deprivation quintile	By locality at birth and school age
	Rural/urban residence	By locality at birth and school age
	Disability codes	
Pregnancy	Date of death	
	Date of antenatal visit	
	Maternal age	At booking visit/conception
	Maternal smoking status	
	Maternal Height	
	Maternal Weight	
	Maternal BMI	
	Existing diagnosis codes	Comorbidities existing at booking visit
	New event type	New events since previous visit e.g. diagnosis, procedure, medicines, etc.
	New event code	
	New event date	
	New event source	Event sources e.g. GP/hospital.
	Data of expected Delivery	
	Folic acid supplements indicator	
	Domestic violence indicator	
	WHOOLEY score	Or other depression indicators.
	Gravidity	
	Parity	
	Previous C-Section indicator	
	Date of previous C-section	
Post-birth (maternal)	Previous preterm birth indicator	
	Date of previous preterm birth	
	Gestational age	At visit.
	Postnatal depression indicator	
	Event type	Events within 10 weeks of birth; may include: diagnosis, procedure, medication, etc.
Birth	Event code	
	Event date	
	Event source	Event sources e.g. GP/hospital.
	Date of delivery	
	Gestational age	At birth.
	Birth weight	
	Event type	Events from birth to 28 days; may include: diagnosis, procedure, medication, etc.
	Event code	
	Event date	
	Event source	Event sources e.g. GP/hospital.
	Mode of delivery	E.g. c-section, forceps, vaginal, etc.

Continued

Supplementary Table 1: Continued

Dataset modules	Data	Additional information
Infancy	Event type	As above but from 29 days to school age
	Event code	
	Event date	
	Event source	
	Neonatal admission indicator	Breastfeeding, mixed/formula indicator
	Neonatal event indicator	
	Breastfeeding indicator	
	Breastfeeding duration	
School age	Event type	As above but for events from school start age to 12 years.
	Event code	
	Event date	
	Event source	



Table 2: Linkable datasets

	Born in Wales	eLIXIR: (BiSL)	Born in Scotland	Born in Bradford		CPRD
				BiBBS	BiB4All	
Core data						
Pregnancy, birth, infancy.	Yes	Yes	Yes	Yes	Yes	Yes
Routine data						
Health Visitor	Yes	Will have	Will have	Yes	Yes	-
Education	Yes	Yes	Children too young but will have in the future		Children too young at present	-
GP	Yes	Yes	Will have	Yes	Yes	Yes
Hospital admission	Yes	Yes	Will have	Yes	Yes	Yes
A&E	Yes	Will have (HES)	Will have	Yes	Yes	-
Congenital abnormalities	Yes	Yes	Will have	Yes	Yes	
National community child health (vaccination, breastfeeding)	Yes	Health visitor data for breastfeeding. NIV data for vaccination - applied for	Will have	Yes	Yes	
Survey with family						
Pregnancy	Yes	No		Yes	Yes	-
18 months	Yes	No				
3-5 years	Yes	No				
Primary school	Yes	No				
Biological samples						
Bloods	-	Yes	Yes	Yes	Yes	
Other datasets						
Census 2011	Yes	Could apply for this				-
Census 2021	Yes	As above				-
Looked after children	Yes	As above				
Child protection	Yes	As above				
Child in receipt of care and support	Yes	As above				

