

Born in Bradford Data Dictionary

Biobank Material Indicators

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Background

This document is a data dictionary for Biobank Material Indicators. It describes 30 variables from 6 sources. This document was built from Born in Bradford database version BUILD-JAN2018.

Born in Bradford

Born in Bradford is a longitudinal multi-ethnic birth cohort study aiming to examine the impact of environmental, psychological and genetic factors on maternal and child health and wellbeing. Bradford is a city in the North of England with high levels of socio-economic deprivation and ethnic diversity. Women were recruited at the Bradford Royal Infirmary at 26-28 weeks gestation. For those consenting, a baseline questionnaire was completed. The full BiB cohort recruited 12,453 women and 3353 of their partners across 13,776 pregnancies and 13,858 children between 2007 and 2010. The cohort is broadly characteristic of the city's maternal population. Mean age of the mothers at study recruitment was 27 years old. Researchers are looking at the links between the circumstances of a child's birth, the context in which they grow up, their health and well-being and their educational progress. Ethical approval for the data collection was granted by Bradford Research Ethics Committee (Ref 07/H1302/112).

Study identifiers

Study identifiers are standardised across Born in Bradford data sources to enable linking of data from different sources.

Variable	Variable Label	Details
ChildID	BiB Child ID	Unique ID assigned to each child at birth. Where birth outcome is unknown for a given pregnancy, ChildID will be blank and there is no child recruited to the study from that pregnancy. Use MotherID with ChildID to link siblings together. Note that twins have separate ChildIDs but the same PregnancyID.
FatherID	BiB Father ID	Unique ID assigned to partners post-recruitment. Use FatherID with PregnancyID to link fathers across pregnancies. Where FatherID matches across two PregnancyIDs, but those PregnancyIDs are associated with different MotherIDs, this is a father with two separate pregnancies in the cohort with different mothers. Likewise, where MotherID matches across two PregnancyIDs, but those PregnancyIDs are associated with different FatherIDs, this is a mother with two separate pregnancies in the cohort with different fathers.
MotherID	BiB Mother ID	Unique ID assigned to each mother post-recruitment. MotherID should be used when looking for pregnancies or children associated with the same mother. Data collected at pregnancy level will duplicate for MotherIDs that are in the study for more than one pregnancy.
PregnancyID	BiB Pregnancy ID	Unique ID assigned to each mother at recruitment. It is named PregnancyID because a mother can enrol for more than one pregnancy. If a mother returns to enrol for a second or third pregnancy, she is assigned a new PregnancyID. Children and partners from that pregnancy can be linked to the mother by the PregnancyID

Biobank material: BiB samples at ALL IN 12m Child

Database ID for source: bioca1

This source is measured at the **child** level. It contains data from 13858 children with one observation per child. There are 5 variables with a total of 13858 observations.

Description

Biobank material held for each child taken for BiB use at ALL IN 12m visit.

Variable	Variable Label	Details
has_all12cdna	Has child DNA from ALL IN 12m blood (from clot)	Derived: Categorical value <hr/> Has child DNA from ALL IN 12m blood (from clot) <hr/> 881 non-missing values <hr/> Coding [has]: 1 = has
has_all12clot	Has child clot from ALL IN 12m blood	Derived: Categorical value <hr/> Has child clot from ALL IN 12m blood <hr/> NA non-missing values <hr/> Coding [has]: 1 = has
has_all12dna	Has child DNA from ALL IN 12m blood	Derived: Categorical value <hr/> Has child DNA from ALL IN 12m blood <hr/> 881 non-missing values <hr/> Coding [has]: 1 = has
has_all12sdna	Has child DNA from ALL IN 12m blood (from serum)	Derived: Categorical value <hr/> Has child DNA from ALL IN 12m blood (from serum) <hr/> NA non-missing values <hr/> Coding [has]: 1 = has

Variable	Variable Label	Details
has_all12serum	Has child serum from ALL IN 12m blood	Derived: Categorical value ----- Has child serum from ALL IN 12m blood ----- 1128 non-missing values ----- Coding [has]: 1 = has

Biobank material: BiB samples at ALL IN 24m Child

Database ID for source: bioca2

This source is measured at the **child** level. It contains data from 13858 children with one observation per child. There are 5 variables with a total of 13858 observations.

Description

Biobank material held for eah child taken for BiB use at ALL IN 24m visit.

Variable	Variable Label	Details
has_all24cdna	Has child DNA from ALL IN 24m blood (from clot)	Derived: Categorical value <hr/> Has child DNA from ALL IN 24m blood (from clot) <hr/> 1356 non-missing values <hr/> Coding [has]: 1 = has
has_all24clot	Has child clot from ALL IN 24m blood	Derived: Categorical value <hr/> Has child clot from ALL IN 24m blood <hr/> NA non-missing values <hr/> Coding [has]: 1 = has
has_all24dna	Has child DNA from ALL IN 24m blood	Derived: Categorical value <hr/> Has child DNA from ALL IN 24m blood <hr/> 1356 non-missing values <hr/> Coding [has]: 1 = has
has_all24sdna	Has child DNA from ALL IN 24m blood (from serum)	Derived: Categorical value <hr/> Has child DNA from ALL IN 24m blood (from serum) <hr/> NA non-missing values <hr/> Coding [has]: 1 = has

Variable	Variable Label	Details
has_all24serum	Has child serum from ALL IN 24m blood	Derived: Categorical value ----- Has child serum from ALL IN 24m blood ----- 241 non-missing values ----- Coding [has]: 1 = has

Biobank material: Baby bloods

Database ID for source: biochb

This source is measured at the **child** level. It contains data from 13858 children with one observation per child. There are 8 variables with a total of 13858 observations.

Description

Biobank material held for each child from cord bloods.

Variable	Variable Label	Details
has_cbldbuffy	Has child buffy from umbilical cord blood	<p>Derived: Categorical value</p> <hr/> <p>Has child buffy from umbilical cord blood</p> <hr/> <p>200 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_cbldplasma	Has child plasma from umbilical cord blood	<p>Derived: Categorical value</p> <hr/> <p>Has child plasma from umbilical cord blood</p> <hr/> <p>7909 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_cbldrbc	Has child red blood cells from umbilical cord blood	<p>Derived: Categorical value</p> <hr/> <p>Has child red blood cells from umbilical cord blood</p> <hr/> <p>7739 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_cbldserum	Has child serum from umbilical cord blood	<p>Derived: Categorical value</p> <hr/> <p>Has child serum from umbilical cord blood</p> <hr/> <p>9303 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>

Variable	Variable Label	Details
has_cbldwhlb	Has child whole blood from umbilical cord blood	<p>Derived: Categorical value</p> <hr/> <p>Has child whole blood from umbilical cord blood</p> <hr/> <p>6741 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_cdna	Has child DNA from umbilical cord blood	<p>Derived: Categorical value</p> <hr/> <p>Has child DNA from umbilical cord blood</p> <hr/> <p>9158 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_cdnabuffy	Has child DNA from umbilical cord blood (from buffy)	<p>Derived: Categorical value</p> <hr/> <p>Has child DNA from umbilical cord blood (from buffy)</p> <hr/> <p>6506 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_cdnawhwb	Has child DNA from umbilical cord blood (from whole blood)	<p>Derived: Categorical value</p> <hr/> <p>Has child DNA from umbilical cord blood (from whole blood)</p> <hr/> <p>2657 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>

Biobank material: MeDALL, child

Database ID for source: biomed

This source is measured at the **child** level. It contains data from 13858 children with one observation per child. There is 1 variable with a total of 13858 observations.

Description

Biobank material held for child from the MeDALL 4 year follow-up.

Variable	Variable Label	Details
has_medallserum	Has child serum at 4 years from MeDALL	Administrative: Categorical value Has child serum at 4 years from MeDALL 664 non-missing values Coding [has]: 1 = has

Biobank material: Mother

Database ID for source: biomob

This source is measured at the **mother** level. It contains data from 12450 mothers with one observation per mother. There is 1 variable with a total of 12450 observations.

Description

Biobank material held for mother.

Variable	Variable Label	Details
has_mdna	Has mother DNA from recruitment blood for at least one pregnancy	Derived: Categorical value Has mother DNA from recruitment blood for at least one pregnancy 10531 non-missing values Coding [has]: 1 = has

Biobank material: Pregnancy baseline

Database ID for source: biopyb

This source is measured at the **pregnancy** level. It contains data from 13773 pregnancies with one observation per pregnancy. There are 10 variables with a total of 13773 observations.

Description

Biobank material held for mother and father at each pregnancy.

Variable	Variable Label	Details
has_fpregdnasal	Has father DNA from recruitment saliva for this pregnancy	Derived: Categorical value Has father DNA from recruitment saliva for this pregnancy 3022 non-missing values Coding [has]: 1 = has
has_mpregbuffy	Has mother buffy from recruitment blood for this pregnancy	Derived: Categorical value Has mother buffy from recruitment blood for this pregnancy 370 non-missing values Coding [has]: 1 = has
has_mpregdna	Has mother DNA from recruitment blood for this pregnancy	Derived: Categorical value Has mother DNA from recruitment blood for this pregnancy 11436 non-missing values Coding [has]: 1 = has
has_mpregdnabuffy	Has mother DNA from recruitment buffy for this pregnancy	Derived: Categorical value Has mother DNA from recruitment buffy for this pregnancy 10187 non-missing values Coding [has]: 1 = has

Variable	Variable Label	Details
has_mpregdnawhblb	Has mother DNA from recruitment whole blood for this pregnancy	<p>Derived: Categorical value</p> <hr/> <p>Has mother DNA from recruitment whole blood for this pregnancy</p> <hr/> <p>1257 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_mpregplasma	Has mother plasma from recruitment blood for this pregnancy	<p>Derived: Categorical value</p> <hr/> <p>Has mother plasma from recruitment blood for this pregnancy</p> <hr/> <p>11503 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_mpregrbc	Has mother red blood cells from recruitment blood for this pregnancy	<p>Derived: Categorical value</p> <hr/> <p>Has mother red blood cells from recruitment blood for this pregnancy</p> <hr/> <p>11495 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_mpregserum	Has mother serum from recruitment blood for this pregnancy	<p>Derived: Categorical value</p> <hr/> <p>Has mother serum from recruitment blood for this pregnancy</p> <hr/> <p>11715 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>
has_mpregurine	Has mother urine from recruitment samples for this pregnancy	<p>Derived: Categorical value</p> <hr/> <p>Has mother urine from recruitment samples for this pregnancy</p> <hr/> <p>6996 non-missing values</p> <hr/> <p>Coding [has]: 1 = has</p>

Variable	Variable Label	Details
has_mpregwhlb	Has mother whole blood from recruitment blood for this pregnancy	Derived: Categorical value ----- Has mother whole blood from recruitment blood for this pregnancy ----- 10262 non-missing values ----- Coding [has]: 1 = has
