

Born in Bradford Data Dictionary

Pregnancy Blood Biomarkers

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Background

This document is a data dictionary for Pregnancy Blood Biomarkers. It describes 27 variables from 3 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

Maternal Bloods

Database ID for source: matbld

This source is measured at the **pregnancy** level. It contains data from 11625 pregnancies with one observation per pregnancy. There are 13 variables with a total of 11625 observations. 5 variables are sensitive or potentially disclosive and will be hidden from standard data packages. These are marked as *Hidden*, below.

Description

Biomarkers taken from baseline maternal bloods for whole cohort.

Variable	Variable Label	Details
agemm_matbld	Mother age (months): Maternal Bloods	Administrative: Integer value <hr/> Mother age in months at data capture date for source: Maternal Bloods <hr/> Range 180 to 590 Mean 333.43 11625 non-missing values
agemy_matbld	Mother age (years): Maternal Bloods	Administrative: Integer value <hr/> Mother age in years at data capture date for source: Maternal Bloods <hr/> Range 15 to 49 Mean 27.32 11625 non-missing values
date_matbld	Date: Maternal Bloods	<i>[Hidden]</i> Administrative: Date value <hr/> Data capture date for source: Maternal Bloods <hr/> Range 2007-03-09 to 2010-12-24 11625 non-missing values
day_matbld	BiB day: Maternal Bloods	<i>[Hidden]</i> Administrative: Integer value <hr/> Data capture date in days from BiB start for source: Maternal Bloods <hr/> Range 0 to 1386 Mean 712.02 11625 non-missing values

Variable	Variable Label	Details
daym_matbld	Mother cohort days: Maternal Bloods	<i>[Hidden]</i> Administrative: Integer value Mother days from recruitment to data capture date for source: Maternal Bloods Range 0 to 1351 Mean 68.91 11625 non-missing values
daypd_matbld	Preg days since delivery: Maternal Bloods	<i>[Hidden]</i> Administrative: Integer value Pregnancy days from delivery to data capture date for source: Maternal Bloods Range -227 to 0 Mean -89.55 11541 non-missing values
daypr_matbld	Pregnancy cohort days: Maternal Bloods	<i>[Hidden]</i> Administrative: Integer value Pregnancy days from recruitment to data capture date for source: Maternal Bloods Range 0 to 0 Mean 0.00 11625 non-missing values
mbldchdlr1	Cholesterol HDL Ratio	Blood test: Continuous value Cholesterol HDL Ratio Range 1.5 to 15 Mean 3.24 11622 non-missing values
mbldchol	Cholesterol	Blood test: Continuous value Cholesterol (mmol/L) Range 2.4 to 16.5 Mean 6.16 11622 non-missing values
mbldhdl1	HDL	Blood test: Continuous value HDL (mmol/l) Range 0.6 to 4.1 Mean 1.97 11622 non-missing values

Variable	Variable Label	Details
mblldinsulin_str	Insulin (string)	<p>Blood test: Text value</p> <hr/> <p>Insulin (pmol/L). String value, has literal cutoffs e.g. "<1"</p> <hr/> <p>396 unique values 11622 non-missing values</p>
mblldldl1	LDL	<p>Blood test: Continuous value</p> <hr/> <p>LDL</p> <hr/> <p>Range 0.1 to 11.3 Mean 3.34 11542 non-missing values</p>
mblldtrigs	Triglyceride	<p>Blood test: Continuous value</p> <hr/> <p>Triglyceride (mmol/L)</p> <hr/> <p>Range 0.6 to 17.8 Mean 1.98 11622 non-missing values</p>

Maternal Bloods: Vitamin D

Database ID for source: `matbvd`

This source is measured at the **pregnancy** level. It contains data from 1498 pregnancies with one observation per pregnancy. There are 12 variables with a total of 1498 observations. 5 variables are sensitive or potentially disclosive and will be hidden from standard data packages. These are marked as *Hidden*, below.

Description

Extra biomarkers taken from baseline maternal bloods for vitamin D study.

Variable	Variable Label	Details
agemm_matbvd	Mother age (months): Maternal Bloods: Vitamin D	Administrative: Integer value ----- Mother age in months at data capture date for source: Maternal Bloods: Vitamin D ----- Range 183 to 590 Mean 333.43 1498 non-missing values
agemy_matbvd	Mother age (years): Maternal Bloods: Vitamin D	Administrative: Integer value ----- Mother age in years at data capture date for source: Maternal Bloods: Vitamin D ----- Range 15 to 49 Mean 27.32 1498 non-missing values
date_matbvd	Date: Maternal Bloods: Vitamin D	<i>[Hidden]</i> Administrative: Date value ----- Data capture date for source: Maternal Bloods: Vitamin D ----- Range 2008-09-15 to 2009-03-13 1498 non-missing values
day_matbvd	BiB day: Maternal Bloods: Vitamin D	<i>[Hidden]</i> Administrative: Integer value ----- Data capture date in days from BiB start for source: Maternal Bloods: Vitamin D ----- Range 556 to 735 Mean 646.96 1498 non-missing values

Variable	Variable Label	Details
daym_matbvd	Mother cohort days: Maternal Bloods: Vitamin D	<i>[Hidden]</i> Administrative: Integer value Mother days from recruitment to data capture date for source: Maternal Bloods: Vitamin D Range 0 to 701 Mean 40.56 1498 non-missing values
daypd_matbvd	Preg days since delivery: Maternal Bloods: Vitamin D	<i>[Hidden]</i> Administrative: Integer value Pregnancy days from delivery to data capture date for source: Maternal Bloods: Vitamin D Range -194 to -6 Mean -89.45 1488 non-missing values
daypr_matbvd	Pregnancy cohort days: Maternal Bloods: Vitamin D	<i>[Hidden]</i> Administrative: Integer value Pregnancy days from recruitment to data capture date for source: Maternal Bloods: Vitamin D Range 0 to 0 Mean 0.00 1498 non-missing values
mbldalbumin	Albumin	Blood test: Continuous value Albumin (g/L) Range 30 to 45 Mean 37.91 1498 non-missing values
mbldcalcium	Calcium	Blood test: Continuous value Calcium (mmol/L) Range 1.91 to 2.61 Mean 2.25 1498 non-missing values
mbldpth_str	PTH (string)	Blood test: Text value PTH. String value, has literal cutoffs e.g. "<1" 208 unique values 1472 non-missing values

Variable	Variable Label	Details
mbldvitd2_str	25(OH) Vit D2 (string)	<p>Blood test: Text value</p> <hr/> <p>25(OH) Vit D2 ng/ml. String value, has literal cutoffs e.g. "<1"</p> <hr/> <p>79 unique values 1477 non-missing values</p>
mbldvitd3_str	25(OH) Vit D3 (string)	<p>Blood test: Text value</p> <hr/> <p>25(OH) Vit D3 ng/ml. String value, has literal cutoffs e.g. "<1"</p> <hr/> <p>315 unique values 1477 non-missing values</p>

NMR metabolomics pregnancy samples

Database ID for source: metnmr

This source is measured at the **pregnancy** level. It contains data from 11479 pregnancies with one observation per pregnancy. There are 2 variables with a total of 11479 observations.

Description

Metabolomics assays by nuclear magnetic resonance (NMR) spectroscopy on all available maternal pregnancy serum samples. Where serum samples were not available, EDTA plasma was provided.

Variable	Variable Label	Details
metabolnmrbarcode	NMR metabolomics sample barcode	Administrative: Text value NMR metabolomics - originating lab sample barcode 11479 unique values 11479 non-missing values
metabolnmrsampleid	NMR metabolomics sample lab ID	Administrative: Text value NMR metabolomics - assay lab sample ID 11479 unique values 11479 non-missing values