

# Born in Bradford Data Dictionary

## Cohort Administrative Information

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### Background

This document is a data dictionary for Cohort Administrative Information. It describes 53 variables from 5 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
<b>ChildID</b>	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.
<b>FatherID</b>	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.
<b>MotherID</b>	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.
<b>PregnancyID</b>	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

## Cohort information: Child

Database ID for source: `adminc`

This source is measured at the **child** level. It contains data from 13858 children with one observation per child. There are 10 variables with a total of 13858 observations. 1 variable is sensitive or potentially disclosive and will be hidden from standard data packages. This is marked as *Hidden*, below.

### Description

Administrative cohort information on Child participants.

Variable	Variable Label	Details
<b>admincbirthorder</b>	Child birth order	Administrative: Integer value <hr/> Child birth order ascertained from maternity hospital record. Use to identify children from multiple births. <hr/> Range 1 to 3 Mean 1.01 13858 non-missing values
<b>admincdob</b>	Child date of birth	<i>[Hidden]</i> Administrative: Date value <hr/> Child date of birth ascertained primarily from maternity hospital record. <hr/> Range 2007-04-10 to 2011-06-02 13858 non-missing values
<b>admincdobagefm</b>	Father age at child date of birth (months)	Derived: Continuous value <hr/> Father age at child date of birth in full calendar months <hr/> Range 194 to 730 Mean 370.04 3488 non-missing values
<b>admincdobagefy</b>	Father age at child date of birth (years)	Derived: Continuous value <hr/> Father age at child date of birth in full calendar years <hr/> Range 16 to 60 Mean 30.38 3488 non-missing values

Variable	Variable Label	Details
<b>admincdobagemm</b>	Mother age at child date of birth (months)	<p>Derived: Continuous value</p> <p>Mother age at child date of birth in full calendar months</p> <p>Range 182 to 593 Mean 336.01 13858 non-missing values</p>
<b>admincdobagemy</b>	Mother age at child date of birth (years)	<p>Derived: Continuous value</p> <p>Mother age at child date of birth in full calendar years</p> <p>Range 15 to 49 Mean 27.54 13858 non-missing values</p>
<b>admincdtc</b>	Child days to censor	<p>Derived: Integer value</p> <p>Combines days from birth to death and days from birth to withdrawal. Missing if still in the cohort and no death.</p> <p>Range -29 to 3660 Mean 588.02 476 non-missing values</p>
<b>admincdtd</b>	Child days to death	<p>Derived: Integer value</p> <p>Days from birth to death, or missing if no death. Deaths are notified via NHS tracing searches.</p> <p>Range 0 to 3610 Mean 212.88 172 non-missing values</p>
<b>admincdtw</b>	Child days to withdrawal	<p>Derived: Integer value</p> <p>Days from birth to date of withdrawal from the cohort, or missing if no withdrawal.</p> <p>Range -29 to 3660 Mean 796.10 306 non-missing values</p>

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Variable	Variable Label	Details
<b>admincgender</b>	Child gender	Administrative: Categorical value <hr/> Child gender ascertained primarily from maternity hospital record. <hr/> 13858 non-missing values <hr/> Coding [gender]: 1 = Male 2 = Female

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## Cohort information: Father

Database ID for source: adminf

This source is measured at the **father** level. It contains data from 3353 fathers with one observation per father. There are 11 variables with a total of 3353 observations. 1 variable is sensitive or potentially disclosive and will be hidden from standard data packages. This is marked as *Hidden*, below.

### Description

Administrative cohort information on Father participants.

Variable	Variable Label	Details
<b>adminfagerecm</b>	Father age at recruitment (months)	Derived: Continuous value _____ Father age in months at recruitment _____ Range 194 to 726 Mean 368.18 3353 non-missing values
<b>adminfagerecy</b>	Father age at recruitment (years)	Derived: Continuous value _____ Father age in years at recruitment _____ Range 16 to 60 Mean 30.22 3353 non-missing values
<b>adminfdbob</b>	Father date of birth	<i>[Hidden]</i> Administrative: Date value _____ Father date of birth _____ Range 1947-05-03 to 1993-06-17 3353 non-missing values
<b>adminfdtc</b>	Father days to censor	Derived: Integer value _____ Combines days from recruitment to death and days from recruitment to withdrawal. Missing if still in the cohort and no death. _____ Range 5 to 3728 Mean 1157.27 79 non-missing values

Variable	Variable Label	Details
<b>adminfddd</b>	Father days to death	<p>Derived: Integer value</p> <hr/> <p>Days from recruitment to death, or missing if no death. Deaths are notified via NHS tracing searches.</p> <hr/> <p>Range 893 to 3728 Mean 2057.56 16 non-missing values</p>
<b>adminfdtw</b>	Father days to withdrawal	<p>Derived: Integer value</p> <hr/> <p>Days from recruitment to date of withdrawal from the cohort, or missing if no withdrawal.</p> <hr/> <p>Range 5 to 3565 Mean 928.62 63 non-missing values</p>
<b>adminfgender</b>	Father gender	<p>Administrative: Categorical value</p> <hr/> <p>Father gender</p> <hr/> <p>3353 non-missing values</p> <hr/> <p>Coding [gender]: 1 = Male 2 = Female</p>
<b>adminfmbibch</b>	Number of BiB children (father)	<p>Derived: Integer value</p> <hr/> <p>Number of children father has in the cohort</p> <hr/> <p>Range 0 to 3 Mean 1.04 3353 non-missing values</p>
<b>adminfmbibpr</b>	Number of BiB pregnancies (father)	<p>Derived: Integer value</p> <hr/> <p>Number of pregnancies father has in the cohort</p> <hr/> <p>Range 1 to 2 Mean 1.03 3353 non-missing values</p>

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Variable	Variable Label	Details
<b>adminfnfbqall</b>	Number of baseline questionnaires (father)	Derived: Integer value Number of baseline questionnaires father has from different pregnancies Range 0 to 2 Mean 1.01 3353 non-missing values
<b>adminfredate</b>	Father date of recruitment	Administrative: Date value Father date of recruitment to cohort Range 2007-07-20 to 2010-12-24 3353 non-missing values

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## Cohort information: Mother

Database ID for source: `adminm`

This source is measured at the **mother** level. It contains data from 12453 mothers with one observation per mother. There are 11 variables with a total of 12453 observations. 1 variable is sensitive or potentially disclosive and will be hidden from standard data packages. This is marked as *Hidden*, below.

### Description

Administrative cohort information on Mother participants.

Variable	Variable Label	Details
<b>adminmagerecm</b>	Mother age at recruitment (months)	Derived: Continuous value Mother age in months at recruitment Range 180 to 590 Mean 332.52 12453 non-missing values
<b>adminmagerecy</b>	Mother age at recruitment (years)	Derived: Continuous value Mother age in years at recruitment Range 15 to 49 Mean 27.25 12453 non-missing values
<b>adminmdob</b>	Mother date of birth	<i>[Hidden]</i> Administrative: Date value Mother date of birth Range 1959-11-07 to 1995-03-20 12453 non-missing values
<b>adminmdtc</b>	Mother days to censor	Derived: Integer value Combines days from recruitment to death and days from recruitment to withdrawal. Missing if still in the cohort and no death. Range 1 to 3751 Mean 851.05 391 non-missing values

Variable	Variable Label	Details
<b>adminmdtd</b>	Mother days to death	<p>Derived: Integer value</p> <hr/> <p>Days from recruitment to death, or missing if no death. Deaths are notified via NHS tracing searches.</p> <hr/> <p>Range 159 to 3627 Mean 1884.02 45 non-missing values</p>
<b>adminmdtw</b>	Mother days to withdrawal	<p>Derived: Integer value</p> <hr/> <p>Days from recruitment to date of withdrawal from the cohort, or missing if no withdrawal.</p> <hr/> <p>Range 1 to 3751 Mean 716.70 346 non-missing values</p>
<b>adminmgender</b>	Mother gender	<p>Administrative: Categorical value</p> <hr/> <p>Mother gender</p> <hr/> <p>12453 non-missing values</p> <hr/> <p>Coding [gender]: 1 = Male 2 = Female</p>
<b>adminmnbibch</b>	Number of BiB children	<p>Derived: Integer value</p> <hr/> <p>Number of children mother has in the cohort</p> <hr/> <p>Range 0 to 4 Mean 1.11 12453 non-missing values</p>
<b>adminmnbibpr</b>	Number of BiB pregnancies	<p>Derived: Integer value</p> <hr/> <p>Number of pregnancies mother has in the cohort</p> <hr/> <p>Range 1 to 3 Mean 1.11 12453 non-missing values</p>

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Variable	Variable Label	Details
<b>adminmnmbqall</b>	Number of baseline questionnaires	Derived: Integer value Number of baseline questionnaires mother has from different pregnancies Range 0 to 3 Mean 0.92 12453 non-missing values
<b>adminmrecdate</b>	Mother date of recruitment	Administrative: Date value Mother date of recruitment to cohort Range 2007-03-09 to 2010-12-24 12453 non-missing values

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## Cohort information: Pregnancy

Database ID for source: adminp

This source is measured at the **pregnancy** level. It contains data from 13776 pregnancies with one observation per pregnancy. There are 14 variables with a total of 13776 observations.

### Description

Administrative cohort information on Pregnancy events.

Variable	Variable Label	Details
<b>adminpagebookmm</b>	Mother age in months at pregnancy booking date	Derived: Integer value Mother age in months at pregnancy booking date Range 175 to 587 Mean 329.74 13176 non-missing values
<b>adminpagebookmy</b>	Mother age in years at pregnancy booking date	Derived: Integer value Mother age in years at pregnancy booking date Range 14 to 48 Mean 27.02 13176 non-missing values
<b>adminpagerecfm</b>	Father age at this pregnancy recruitment (months)	Derived: Continuous value Father age in full calendar months at recruitment for this pregnancy Range 191 to 726 Mean 366.95 3455 non-missing values
<b>adminpagerecfy</b>	Father age at this pregnancy recruitment (years)	Derived: Continuous value Father age in full calendar years at recruitment for this pregnancy Range 15 to 60 Mean 30.12 3455 non-missing values

Variable	Variable Label	Details
<b>adminpagerecmm</b>	Mother age at this pregnancy recruitment (months)	<p>Derived: Continuous value</p> <p>Mother age in full calendar months at recruitment for this pregnancy</p> <p>Range 180 to 590 Mean 333.05 13776 non-missing values</p>
<b>adminpagerecmy</b>	Mother age at this pregnancy recruitment (years)	<p>Derived: Continuous value</p> <p>Mother age in full calendar years at recruitment for this pregnancy</p> <p>Range 15 to 49 Mean 27.29 13776 non-missing values</p>
<b>adminpbookdate</b>	Pregnancy booking date	<p>Administrative: Date value</p> <p>Pregnancy booking date</p> <p>Range 2006-01-18 to 2011-11-04 13176 non-missing values</p>
<b>adminpdtc</b>	Pregnancy days to censor	<p>Derived: Integer value</p> <p>Combines days from recruitment to death and days from recruitment to withdrawal. Missing if still in the cohort and no death.</p> <p>Range 1 to 3751 Mean 859.36 414 non-missing values</p>
<b>adminpdtd</b>	Pregnancy days to mother's death	<p>Derived: Integer value</p> <p>Days from recruitment to death, or missing if no death. Deaths are notified via NHS tracing searches.</p> <p>Range 159 to 3627 Mean 1843.90 52 non-missing values</p>

Variable	Variable Label	Details
<b>adminpdtw</b>	Pregnancy days to withdrawal	<p>Derived: Integer value</p> <hr/> <p>Days from birth to date of withdrawal from the cohort, or missing if no withdrawal.</p> <hr/> <p>Range 1 to 3751 Mean 717.93 362 non-missing values</p>
<b>adminpestconcept</b>	Pregnancy estimated date of conception	<p>Derived: Date value</p> <hr/> <p>Pregnancy estimated date of conception. Derived from pregnancy date of delivery (which is minimum date of birth where multiple births have different dates of birth) and estimated gestational age from the maternity record.</p> <hr/> <p>Range 2006-07-26 to 2010-08-30 13361 non-missing values</p>
<b>adminpfatherid</b>	FatherID	<p>Administrative: Text value</p> <hr/> <p>FatherID for reference and linkage. This is not yet part of Core data but will be integrated soon.</p> <hr/> <p>3353 unique values 3455 non-missing values</p>
<b>adminpnbirths</b>	Number of registerable births	<p>Administrative: Integer value</p> <hr/> <p>Number of registerable births, ascertained primarily from the maternity hospital record</p> <hr/> <p>Range 1 to 3 Mean 1.01 13580 non-missing values</p>
<b>adminprecdat</b>	Pregnancy date of recruitment	<p>Administrative: Date value</p> <hr/> <p>Pregnancy date of (Mother's) recruitment to cohort</p> <hr/> <p>Range 2007-03-09 to 2010-12-24 13776 non-missing values</p>

## Mother info derived from various sources

Database ID for source: deminf

This source is measured at the **mother** level. It contains data from 12450 mothers with one observation per mother. There are 7 variables with a total of 12450 observations.

### Description

Information about the mother derived from various sources, such as primary research questionnaires and administrative or health records data. May be used, for example, when wanting to fill in missing direct observations with administrative data.

Variable	Variable Label	Details
<b>deminfeth0eth3gp</b>	Baseline Q ethnicity 3 categories (pregnancy data derived to mother level)	Derived: Categorical value Baseline Q ethnicity 3 categories (pregnancy data derived to mother level) 10498 non-missing values Coding [deminfeth3]: 1 = White British 2 = Pakistani 3 = Other
<b>deminfeth0eth9gp</b>	Baseline Q ethnicity 9 categories (pregnancy data derived to mother level)	Derived: Categorical value Baseline Q ethnicity 9 categories (pregnancy data derived to mother level) 10498 non-missing values Coding [deminfeth9lab]: 1 = White British 2 = White Other 3 = Mixed-White and Black 4 = Mixed-White and South Asian 5 = Black 6 = Indian 7 = Pakistani 8 = Bangladeshi 9 = Other

Variable	Variable Label	Details
<b>deminfeth3gpcomb</b>	Combined ethnicity: first non-missing of baseline then GP Read code	<p>Derived: Categorical value</p> <hr/> <p>Combined ethnicity: first non-missing of baseline then GP Read code</p> <hr/> <p>12057 non-missing values</p> <hr/> <p>Coding [deminfeth3]:  1 = White British  2 = Pakistani  3 = Other</p>
<b>deminfethnicitybaseline_flag</b>	Whether Ethnicity data recorded in Baseline Questionnaire	<p>Derived: Categorical value</p> <hr/> <p>Whether Ethnicity data recorded in Baseline Questionnaire</p> <hr/> <p>12450 non-missing values</p> <hr/> <p>Coding [deminfYESNO]:  0 = No  1 = Yes</p>
<b>deminfethnicreadcode_flag</b>	Whether Ethnicity data recorded in GP data Read codes	<p>Derived: Categorical value</p> <hr/> <p>Whether Ethnicity data recorded in GP data Read codes</p> <hr/> <p>12450 non-missing values</p> <hr/> <p>Coding [deminfYESNO]:  0 = No  1 = Yes</p>
<b>deminfgpethnic3gps</b>	Ethnicity derived from most recent GP Read code (3 categories)	<p>Derived: Categorical value</p> <hr/> <p>Ethnicity derived from most recent GP Read code (3 categories)</p> <hr/> <p>10067 non-missing values</p> <hr/> <p>Coding [deminfgPeth3]:  1 = British or mixed British  2 = Pakistani or British Pakistani  3 = Other</p>



MOTHER INFO DERIVED FROM VARIOUS SOURCES

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Variable	Variable Label	Details
<b>deminfgpethnicall</b>	Ethnicity derived from most recent GP Read code (all categories)	Derived: Text value ----- Ethnicity derived from most recent GP Read code (all categories) ----- 17 unique values 12450 non-missing values

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