

Born in Bradford Data Dictionary

Fetal Renal Ultrasound Data

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Background

This document is a data dictionary for Fetal Renal Ultrasound Data. It describes 56 variables from 1 source. 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

Fetal renal ultrasound study

Database ID for source: renal_u

This source is measured at the **pregnancy** level. It contains data from 1803 pregnancies with one observation per pregnancy. There are 56 variables with a total of 1803 observations.

Description

Ultrasound scans around 34 weeks gestation to measure fetal kidney dimensions (transverse and anteroposterior diameters, length and circumference) and derived volume. This is a nested cohort within the full BiB cohort. Women were recruited at a routine glucose tolerance test at 26-28 weeks gestation and invited to return for a further fetal ultrasound at 34 weeks gestation.

Renal ultrasound

Variable	Variable Label	Details
renalabdocirc1	Abdominal circ (1)	Research Clinic: Continuous value Abdominal circumference, cm (measure 1) Range 20.5 to 35.1 Mean 29.49 1802 non-missing values
renalabdocirc2	Abdominal circ (2)	Research Clinic: Continuous value Abdominal circumference, cm (measure 2) Range 13.9 to 35.5 Mean 29.50 298 non-missing values
renalabdocirc3	Abdominal circ (3)	Research Clinic: Continuous value Abdominal circumference, cm (measure 3) Range 20.9 to 33.6 Mean 29.49 176 non-missing values
renalabdocircav	Abdominal circ (av of 3)	Research Clinic: Continuous value Abdominal circumference, cm (average of 3 measures) Range 20.63 to 35.3 Mean 29.49 1802 non-missing values

Variable	Variable Label	Details
renalbpd1	Biparietal diam (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Biparietal diameter, mm (measure 1)</p> <hr/> <p>Range 7.01 to 82.5 Mean 8.54 1778 non-missing values</p>
renalbpd2	Biparietal diam (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Biparietal diameter, mm (measure 2)</p> <hr/> <p>Range 7.22 to 9.38 Mean 8.46 195 non-missing values</p>
renalbpd3	Biparietal diam (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Biparietal diameter, mm (measure 3)</p> <hr/> <p>Range 7.37 to 9.34 Mean 8.44 162 non-missing values</p>
renalbpdav	Biparietal diam (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Biparietal diameter, mm (average of 3 measures)</p> <hr/> <p>Range 7.01 to 82.5 Mean 8.54 1778 non-missing values</p>
renalfemurlgth1	Femur length (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Femur length, cm (measure 1)</p> <hr/> <p>Range 5.34 to 7.28 Mean 6.49 1802 non-missing values</p>
renalfemurlgth2	Femur length (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Femur length, cm (measure 2)</p> <hr/> <p>Range 5.31 to 7.16 Mean 6.46 229 non-missing values</p>

Variable	Variable Label	Details
renalfemurlgth3	Femur length (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Femur length, cm (measure 3)</p> <hr/> <p>Range 5.73 to 7.13 Mean 6.48 149 non-missing values</p>
renalfemurlgthav	Femur length (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Femur length, cm (average of 3 measures)</p> <hr/> <p>Range 5.33 to 7.28 Mean 6.49 1802 non-missing values</p>
renalfetalwgt	Est fetal weight at scan	<p>Research Clinic: Continuous value</p> <hr/> <p>Estimated fetal weight at scan, kg</p> <hr/> <p>Range 0.997 to 3.453 Mean 2.24 1788 non-missing values</p>
renalgestage	Gestational age at scan	<p>Research Clinic: Integer value</p> <hr/> <p>Gestational age at scan, weeks</p> <hr/> <p>Range 218 to 272 Mean 238.88 1802 non-missing values</p>
renalheadcirc1	Head circ (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Head circumference, cm (measure 1)</p> <hr/> <p>Range 27.1 to 35.2 Mean 31.48 1789 non-missing values</p>
renalheadcirc2	Head circ (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Head circumference, cm (measure 2)</p> <hr/> <p>Range 27.4 to 34.3 Mean 31.42 228 non-missing values</p>

Variable	Variable Label	Details
renalheadcirc3	Head circ (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Head circumference, cm (measure 3)</p> <hr/> <p>Range 29.2 to 33.9 Mean 31.48 167 non-missing values</p>
renalheadcircav	Head circ (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Head circumference, cm (average of 3 measures)</p> <hr/> <p>Range 27.35 to 35.2 Mean 31.48 1789 non-missing values</p>
renalliquor	Liquor	<p>Research Clinic: Continuous value</p> <hr/> <p>Liquor</p> <hr/> <p>Range 0 to 13 Mean 5.63 1796 non-missing values</p>
renallkidapdiam1	L kidney AP diam (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney AP diameter, cm (measure 1)</p> <hr/> <p>Range 1.3 to 3.34 Mean 2.12 1568 non-missing values</p>
renallkidapdiam2	L kidney AP diam (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney AP diameter, cm (measure 2)</p> <hr/> <p>Range 1.34 to 3.36 Mean 2.12 1574 non-missing values</p>
renallkidapdiam3	L kidney AP diam (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney AP diameter, cm (measure 3)</p> <hr/> <p>Range 1.3 to 3.38 Mean 2.12 1573 non-missing values</p>

Variable	Variable Label	Details
renallkidapdiamav	L kidney AP diam (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney AP diameter, cm (average of 3 measure)</p> <hr/> <p>Range 1.32 to 3.36 Mean 2.12 1574 non-missing values</p>
renallkidcirc1	L kidney circ (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney circumference, cm (measure 1)</p> <hr/> <p>Range 4.45 to 10.7 Mean 7.19 1574 non-missing values</p>
renallkidcirc2	L kidney circ (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney circumference, cm (measure 2)</p> <hr/> <p>Range 4.42 to 10.6 Mean 7.18 1574 non-missing values</p>
renallkidcirc3	L kidney circ (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney circumference, cm (measure 3)</p> <hr/> <p>Range 4.43 to 10.5 Mean 7.19 1574 non-missing values</p>
renallkidcircav	L kidney circ (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney circumference, cm (average of 3 measures)</p> <hr/> <p>Range 4.43 to 10.6 Mean 7.19 1575 non-missing values</p>
renallkidlgth1	L kidney length (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney length, cm (measure 1)</p> <hr/> <p>Range 1.96 to 6.46 Mean 3.84 1570 non-missing values</p>

Variable	Variable Label	Details
renallkidlgth2	L kidney length (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney length, cm (measure 2)</p> <hr/> <p>Range 1.97 to 6.63 Mean 3.84 1573 non-missing values</p>
renallkidlgth3	L kidney length (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney length, cm (measure 3)</p> <hr/> <p>Range 1.95 to 6.59 Mean 3.84 1572 non-missing values</p>
renallkidlgthav	L kidney length (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney length, cm (average of 3 measures)</p> <hr/> <p>Range 1.96 to 6.47 Mean 3.84 1574 non-missing values</p>
renallrvefw	L renal volume/est fetal weight	<p>Research Clinic: Continuous value</p> <hr/> <p>Left renal volume divided by estimated fetal weight</p> <hr/> <p>Range 1.46 to 9.77 Mean 4.21 1563 non-missing values</p>
renalltsdiam1	L kidney trans diam (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney transverse diameter, cm (measure 1)</p> <hr/> <p>Range 1.33 to 3.15 Mean 2.17 1571 non-missing values</p>
renalltsdiam2	L kidney trans diam (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney transverse diameter, cm (measure 2)</p> <hr/> <p>Range 1.36 to 3.18 Mean 2.17 1574 non-missing values</p>

Variable	Variable Label	Details
renalltsdiam3	L kidney trans diam (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney transverse diameter, cm (measure 3)</p> <hr/> <p>Range 1.36 to 3.12 Mean 2.17 1573 non-missing values</p>
renalltsdiamav	L kidney trans diam (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Left kidney transverse diameter, cm (average of 3 measures)</p> <hr/> <p>Range 1.35 to 3.15 Mean 2.17 1574 non-missing values</p>
renallvol	Left renal volume	<p>Research Clinic: Continuous value</p> <hr/> <p>Left renal volume, cm³</p> <hr/> <p>Range 3.07 to 23.89 Mean 9.43 1573 non-missing values</p>
renalrecorder	Recorder	<p>Research Clinic: Categorical value</p> <hr/> <p>Recorder</p> <hr/> <p>1801 non-missing values</p> <hr/> <p>Coding [renalurecorder1b1]: 1 = LG 2 = LG/SK 3 = LH 4 = NH 5 = NM 6 = NZ 7 = SK 8 = SK/NH</p>
renalrkidapdiam1	R kidney AP diam (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney AP diameter, cm (measure 1)</p> <hr/> <p>Range 1.3 to 3.56 Mean 2.16 1570 non-missing values</p>

Variable	Variable Label	Details
renalrkidapdiam2	R kidney AP diam (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney AP diameter, cm (measure 2)</p> <hr/> <p>Range 1.3 to 3.54 Mean 2.16 1567 non-missing values</p>
renalrkidapdiam3	R kidney AP diam (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney AP diameter, cm (measure 3)</p> <hr/> <p>Range 1.32 to 3.62 Mean 2.16 1565 non-missing values</p>
renalrkidapdiamav	R kidney AP diam (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney AP diameter, cm (average of 3 measure)</p> <hr/> <p>Range 1.31 to 3.57 Mean 2.16 1570 non-missing values</p>
renalrkidcirc1	R kidney circ (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney circumference, cm (measure 1)</p> <hr/> <p>Range 3.47 to 11.2 Mean 7.35 1570 non-missing values</p>
renalrkidcirc2	R kidney circ (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney circumference, cm (measure 2)</p> <hr/> <p>Range 5.11 to 11.1 Mean 7.36 1567 non-missing values</p>
renalrkidcirc3	R kidney circ (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney circumference, cm (measure 3)</p> <hr/> <p>Range 5.07 to 10.8 Mean 7.37 1566 non-missing values</p>

Variable	Variable Label	Details
renalrkidcircav	R kidney circ (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney circumference, cm (average of 3 measures)</p> <hr/> <p>Range 3.47 to 11.03 Mean 7.36 1571 non-missing values</p>
renalrkidlgth1	R kidney length (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney length, cm (measure 1)</p> <hr/> <p>Range 2.17 to 7.48 Mean 3.83 1572 non-missing values</p>
renalrkidlgth2	R kidney length (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney length, cm (measure 2)</p> <hr/> <p>Range 2.59 to 7.43 Mean 3.83 1567 non-missing values</p>
renalrkidlgth3	R kidney length (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney length, cm (measure 3)</p> <hr/> <p>Range 2.57 to 7.48 Mean 3.84 1565 non-missing values</p>
renalrkidlgthav	R kidney length (avof 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney length, cm (average of 3 measures)</p> <hr/> <p>Range 2.17 to 7.46 Mean 3.83 1573 non-missing values</p>
renalrrvefw	R renal volume/est fetal weight	<p>Research Clinic: Continuous value</p> <hr/> <p>Right renal volume dived by estimated fetal weight</p> <hr/> <p>Range 1.64 to 16.4 Mean 4.43 1555 non-missing values</p>

Variable	Variable Label	Details
renalrtsdiam1	R kidney trans diam (1)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney transverse diameter, cm (measure 1)</p> <hr/> <p>Range 1.31 to 6.88 Mean 2.24 1566 non-missing values</p>
renalrtsdiam2	R kidney trans diamr (2)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney transverse diameter, cm (measure 2)</p> <hr/> <p>Range 1.37 to 6.88 Mean 2.24 1566 non-missing values</p>
renalrtsdiam3	R kidney trans diamr (3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney transverse diameter, cm (measure 3)</p> <hr/> <p>Range 1.32 to 6.83 Mean 2.25 1565 non-missing values</p>
renalrtsdiamav	R kidney trans diam (av of 3)	<p>Research Clinic: Continuous value</p> <hr/> <p>Right kidney transverse diameter, cm (average of 3 measures)</p> <hr/> <p>Range 1.35 to 6.86 Mean 2.24 1566 non-missing values</p>
renalrvol	Right renal volume	<p>Research Clinic: Continuous value</p> <hr/> <p>Right renal volume, cm3</p> <hr/> <p>Range 2.76 to 30.47 Mean 9.90 1566 non-missing values</p>