

Data abstracted from obstetric and neonatal clinical records

**Document developed by Jean Golding, Steve Gregory and
Linda Wilson
with assistance from Amanda Hill, Philip Conway and Iain
Bickerstaffe**

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I. THE BACKGROUND

I.1. Reasons for data abstraction from obstetric and neonatal medical records

Although much information has been collected from the mother using self-completion questionnaires, in regard to her signs and symptoms, medication and treatment during pregnancy, delivery and postpartum, data collected from clinical records includes information that cannot be obtained in other ways. Therefore the plans from the onset were to obtain such data.

I.2. Historical development of the data abstraction forms

There were a number of influences on the development of the forms used for data abstraction. These were partly based on information used in other studies (e.g. the 1958 and 1970 birth cohort studies), but the major influences (particularly in regard to recording data relevant to studies concerning the hypertensive disorders of pregnancy) were those developed by JG and colleagues for (a) the International Study of the Hypertensive Disorders of Pregnancy funded by WHO which took place in a number of developing countries including Thailand, Vietnam and China.^{1,2} (b) A randomised controlled trial of low dose aspirin for the possible prevention of pre-eclampsia in Jamaica.³

The latter studies showed the importance of collecting the actual measurements (e.g. of blood pressure, proteinuria, haemoglobin) rather than relying on clinical diagnoses which were likely to vary with the clinician/hospital/country. This background dictated the importance of abstracting as many measurements as possible, as well as details of investigations and treatments. The data abstraction form is reproduced in Appendix A.

I.3. Structure of the obstetric services in Avon 1990-2

The study area was served by consultant obstetric services based in the two major obstetric hospitals: Southmead Hospital and the Bristol Maternity Hospital (BMH), subsequently called St Michael's Hospital. In addition deliveries of low-risk pregnancies were undertaken at Weston General Hospital (WGH). There were dedicated neonatal intensive care and special care baby units at BMH and Southmead but not at WGH. All deliveries were free as part of the National Health Service (NHS).

Antenatal care was undertaken by general practitioners and community midwives. For most pregnancies one of the consultant obstetricians would also have been involved and provided he/she was happy that the woman was not of very high risk, she would have had "shared care". Very few women intended to have a home delivery. As far as is known, all antenatal care was undertaken within the NHS.

Thus for women enrolled in ALSPAC the system for antenatal care in those at low risk involved shared care between hospital-based consultant obstetricians and midwives based in the community and working with the woman's general practitioner. Women at high risk would be more likely to have been seen throughout by the clinical obstetric services, mainly within the relevant hospital although some obstetricians visited community clinics. Very few mothers used private care.

The protocols used by the medical staff at each of the 3 hospitals have been added to the ALSPAC archive as part of the University of Bristol Special Collections. The protocols should be used with caution as we know these guidelines were not always adhered to.

I.4. Extraction of information from the records

The hand written measurements and observations made in the community and those made in hospital were all combined in one record folder. Important information could be found in many different places within the records, having been documented by medical and nursing/midwifery staff. This requires meticulous systematic scrutiny in order to abstract accurate data. Details of all pregnancy-related hospital admissions were also included in the record. For complex pregnancies the folder could be as thick as 6-8 inches, with A4 paper handwritten on both sides.

Storage of records

Initial funding for ALSPAC was used for collection of data from mothers and their partners as well as for processing and storage of biological samples. It was considered that the obstetric records could be accessed and extracted as and when funding became available. Although unavoidable there was a major disadvantage with this strategy in that the major hospitals became short of storage space for records, and they were, by 2006, in 19 different sites. Consequently searching for any particular record took an average of 2 hours.

Obstetric records may also be stored in non-paper formats (optical discs or microfiche). Electronic tracing of hospital records were inefficient with the systems frequently inaccurate and not kept up to date. Extensive knowledge of both the computer systems and physical environment was necessary to locate the records. Double or triple registration with equivalent sets of notes was not uncommon after a merger of two of the hospital records departments.

I.5. Funding mechanisms

Data extraction is expensive because it is extremely time consuming. The study was unable to obtain funding to obtain the full set of detailed obstetric records. The fall-back position was, therefore, to use grants for specific projects.

As shown in Appendix C, a number of funders were involved in these projects. These included NHS Executive, BUPA Foundation, Children Nationwide, NHMRC (Australia), Mental Health Foundation, and the Department of Health.

I.6. Statistical analysis using the subgroup design

For analysis of the 8369 pregnancies, it is important to note the biases in ascertainment of some of these groups. There are a number of ways in which these could be addressed in statistical analyses, as outlined briefly below.

- (a) If there is sufficient power, we recommend using the random sample [P1].
- (b) An alternative is to include with P1 the randomly ascertained group of pregnancies with livebirths followed up as Children in Focus[P8], possibly augmented with the teenage pregnancies[P2].

- (c) Use all the groups together but use conditional analytic strategies taking account of group.

1.7. Selection of subgroups

As noted in I.5, funding for extracting the data from the obstetric and neonatal notes developed as the result of specific projects and grants (see Appendix C). This resulted in the 8369 pregnancies on the delivery file being initially selected for a variety of reasons including: the child had cerebral palsy, died perinatally, was delivered preterm, was a child of a teenage mother, was born by caesarean section or attended the Children in Focus clinics. There was, in addition, a randomly ascertained sample of 2760 deliveries and a sample of women who were depressed. None of the above groups were mutually exclusive. The ways in which the samples were generated can be accessed as part of the ALSPAC archive.

It is important to note that, in general, the data extractors were not aware as to which group the pregnancy was in. [This of course would have been obvious for selections on the type of delivery, teenage pregnancies, or preterm deliveries, but selections based on maternal depression or child outcome were not revealed to them, and were always mixed with the random control group].

A. The random sample

This sample was chosen at random, initially as a sample to compare with the depressed group (P3), but later augmented, with other randomly ascertained groups.

DEL_P1 The random sample

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2760	13.9	33.0	33.0
	2 No	5609	28.3	67.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

B. Teenage pregnancies

All ALSPAC pregnancies to women <20 at the time of delivery have been included.

DEL_P2 Sample of teenage pregnancies

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	645	3.3	7.7	7.7
	2 No	7697	38.9	92.3	100.0
	Total	8342	42.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not answered	27	.1		
	Total	11445	57.8		
Total		19787	100.0		

[N.B. There were 27 women whose ages at delivery were not available – these were all related to fetal deaths with unknown dates of delivery]

C. Depressed mothers

This sample was selected to include women who were either depressed [EPDS>12] in pregnancy or at 8 weeks post-delivery

DEL_P3 Sample of depressed mums

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1426	7.2	17.0	17.0
	2 No	6943	35.1	83.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

D. Caesarean sections

Pregnancies resulting in caesarean sections were identified from the mothers' questionnaires [at 8 weeks] augmented with cases from the computer system STORK which covered the two major hospitals BMH and Southmead.

DEL_P4 Sample with caesarian section

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1473	7.4	17.6	17.6
	2 No	6896	34.9	82.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

E. Instrumental vaginal deliveries

Pregnancies resulting in instrumental vaginal deliveries were identified from STORK. Consequently deliveries outside these two hospitals but who had instrumental deliveries will not have been selected.

DEL_P5 Sample with instrumental vaginal delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1521	7.7	18.2	18.2
	2 No	6848	34.6	81.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

F. Gestation <36 weeks

In order to answer the question as to the accurate preterm delivery rate within ALSPAC all deliveries with gestation <37 weeks identified using any of: mother's stated EDD, EDD based on LMP, gestation on STORK or paediatric estimate of gestation were considered. If there was consistency, the records were not selected for review; if some estimates were of <37 wk and others were not, they were extracted and a decision made by a consultant obstetrician.⁴ Those who were <36 completed weeks are those in Group F; those who were considered are in Group H.

DEL_P6 Sample with gestation less than 36 weeks

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	480	2.4	5.7	5.7
	2 No	7889	39.9	94.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

G. Offspring attended at least one Children in Focus Clinic

Selection of children to be included in Children in Focus: the ~10% sample of children born in the last 6 months of 1992, were chosen using a quasi-random method [if the day of the mother's birth was an odd or even number determined whether or not she would have been eligible]. This sample was chosen to include those who were eligible and actually attended.

DEL_P7 Sample that attended any of the CIF clinics

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1377	7.0	16.5	16.5
	2 No	6992	35.3	83.5	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

H. Possible preterm delivery

See explanation under F above.

DEL_P8 Sample of possible preterm deliveries

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1022	5.2	12.2	12.2
	2 No	7347	37.1	87.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

J. Offspring possibly had psychosis-like symptoms (PLIKS)

The children at age 12 were interviewed in regard to a number of psychosis – like symptoms. If they were positive on any of the signs, the delivery records were extracted.

DEL_P9 Sample with possible pliks

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	870	4.4	10.4	10.4
	2 No	7499	37.9	89.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

K. Offspring had cerebral palsy

The children with diagnosed cerebral palsy were identified through the Community Child Health system. Only those with a study placenta available were selected.

DEL_P10 Child had cerebral palsy

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	18	.1	.2	.2
	2 No	8351	42.2	99.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

L. Pregnancy thought to be multiple, but resulted in a singleton

A study was concerned with testing whether some children with cerebral palsy had been a child of a multiple pregnancy, one of the members of which had been lost during the pregnancy. For this, we identified from the maternal questionnaire all those pregnancies where the mother had indicated that at one stage of pregnancy she had been informed that she had a multiple pregnancy, but in fact she delivered a singleton. [The placentas of all in this group, were examined for signs of a missing twin as were the children with cerebral palsy]

DEL_P11 In missing twin study

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Case	67	.3	.8	.8
	2 Control	124	.6	1.5	2.3
	3 No	8178	41.3	97.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

M. Offspring in twin/closely spaced singleton study

This study compared the development of twin pairs with singletons with a closely spaced sibling. Extraction of the obstetric and neonatal records was to test whether delay in twin development of speech was related to obstetric problems in pregnancy or whether it concerned the difficulties mothers had in relating to two similarly aged siblings.⁵

DEL_P12 In Rutter/Thorpe study

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Not in TL study	8178	41.3	97.7	97.7
	1 Singleton	97	.5	1.2	98.9
	2 Twin	94	.5	1.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

N. Deliveries outside of Avon hospitals

This group includes home deliveries, babies born before arrival or delivered in hospitals outside the Avon area.

DEL_P13 Out of Avon hospital deliveries

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	352	1.8	4.2	4.2
	2 No	8017	40.5	95.8	100.0
	Total	8369	42.3	100.0	
	Missing	11418	57.7		
Total		19787	100.0		

O. Miscellaneous deliveries

DEL_P14 Sample of miscellaneous deliveries

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	40	.2	0.1	100.0
	2 No	8329	42.1	99.9	
	Total	8369	42.3	100.00	
	Missing	11418	57.7		
Total		19787	100.0		

P. Early version of extraction form used

In the first days of the data extraction, the extraction form was considerably shorter than that shown in Appendix A, but included text which described all the abnormalities of the pregnancy. Subsequently in order to save time and provide an appropriate structure, the form was recreated to include specific boxes to be ticked for the various signs and symptoms, medications, investigations and treatments. For many such forms, the early versions were transcribed onto the final format of the form.

DEL_P15 Sample in early version of form

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1529	7.7	18.3	18.3
	2 No	6840	34.6	81.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Q. Multiple births

All pregnancies resulting in a multiple delivery (twins or higher order births) are coded here. However because the triplets and quads would be identifiable, they have not been retained for general release.

Although the pregnancy of the mother is identical for each member of the multiple birth, some details of labour and delivery will differ.

It is important to note that this variable differs from variable P1107 which is concerned with the identification of a multiple pregnancy which may not have continued to delivery.

DEL_P50 mult: Multiple birth

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	188	1.0	2.2	2.2
	2 No	8181	41.3	97.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

I.8. Housekeeping data

Illegibility information

The data abstractors were instructed to make a note of any items in the clinical records that were illegible. They described in text the features that were illegible. Although most of this text has been keyed, it has not been coded. The illegible data may have been related to any phase of the obstetric or neonatal records.

It is suggested that the investigator might leave out such records as part of a sensitivity analysis.

DEL_P150 illeginf: Any information illegible

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	421	2.1	5.1	5.1
	2 No	7913	40.0	94.9	100.0
	Total	8334	42.1	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	35	.2		
	Total	11453	57.9		
Total		19787	100.0		

Missing information

Variable P151 indicates whether information was missing from the medical records. The DAs were instructed to only code 'yes' if large sections were missing such as nursing notes, but not to include missing path reports.

DEL_P151 missinfo: Any information missing

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1039	5.3	12.4	12.4
	2 No	7320	37.0	87.6	100.0
	Total	8359	42.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	10	.1		
	Total	11428	57.8		
Total		19787	100.0		

Identifying information

The data abstractors recorded mother's date of birth and that of the infant. These have been used to ensure that the correct links for the obstetric and neonatal data have been made to the database. They have then been deleted.

Investigators can obtain details of mother's age at delivery and at conception elsewhere in the ALSPAC database.

Release file version history (introduced version 1c)

Release file version 1c – Released May 2019

Seven variables (DEL_B4000, DEL_B4001, DEL_B4019, DEL_B4100, DEL_B4150, DEL_B4400 and DEL_B4462) had data linked to a positive missing value of either '3', '6', '8' or '9' (with the value labels including: 'Not known', 'Not stated', 'Not stated in notes' or 'Cannot tell'). For consistency with other ALSPAC data, these cases have been recoded as either '-2' or '-3' (as appropriate) and the positive missing value (i.e., '3', '6', '8' or '9') dropped from the dataset.

II. THE OBSTETRIC DATA CONCERNING PREGNANCY AND DELIVERY

II.1 Data relating to intended and actual places of delivery, gestation and type of antenatal care

Conception

This concerns whether or not the woman was recorded as conceiving with IVF. Note that detailed information concerning time to pregnancy and treatments to help conceive are available in the B files.

DEL_P1000 B6s: In-vitro fertilisation conception

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	63	.3	.8	.8
	2 No	8306	42.0	99.2	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Type of obstetric care

When the mother presents for antenatal care a decision is taken with her as to where she would best be delivered and the type of antenatal care. The decisions were noted in P1001 and P1003. The actual place of delivery was noted in P1002.

Intended place of delivery

[N.B. The intended place of delivery was also asked of the women in pregnancy (see self-completion B files).

DEL_P1001 A3: Where mother originally intended to deliver

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 BMH St. Michaels	3163	16.0	38.3	38.3
	2 Southmead	4486	22.7	54.3	92.5
	3 Weston	457	2.3	5.5	98.0
	4 Home	64	.3	.8	98.8
	5 Other	99	.5	1.2	100.0
Missing	Total	8269	41.8	100.0	
	-10 Not completed	11418	57.7		
	-9 Can't tell	91	.5		
	-1 Not Answered	9	.0		
Total		11518	58.2		
Total		19787	100.0		

Actual place of delivery

DEL_P1002 A5: Place of delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 BMH St. Michaels	3189	16.1	38.3	38.3
	2 Southmead	4399	22.2	52.8	91.1
	3 Weston	369	1.9	4.4	95.5
	4 Home	207	1.0	2.5	98.0
	5 Other	169	.9	2.0	100.0
	Total	8333	42.1	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	36	.2		
	Total	11454	57.9		
Total		19787	100.0		

Antenatal care

DEL_P1003 A6: Type of A/N care

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Shared care	8089	40.9	97.4	97.4
	2 Other care	218	1.1	2.6	100.0
	Total	8307	42.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	62	.3		
	Total	11480	58.0		
Total		19787	100.0		

Gestation

The calculation of gestational age is available from two sources in the obstetric records: (a) from the last menstrual period (LMP), especially if the mother is certain of this; (b) the clinical estimate whereby the clinician uses a variety of information such as the LMP and results of early fetal growth measured using ultrasound scans. Where a number of different clinical estimates were given, the last one recorded as the best estimate is used.

From these data the following are on this file:

(i) Month of last menstrual period

Note that the actual date is not given as this is potentially identifying data.

DEL_P1004 B2amm: Date of last menstrual period: month

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 January	849	4.3	10.3	10.3
	2 February	731	3.7	8.9	19.2
	3 March	627	3.2	7.6	26.9
	4 April	376	1.9	4.6	31.4
	5 May	390	2.0	4.7	36.2
	6 June	475	2.4	5.8	42.0
	7 July	638	3.2	7.8	49.7
	8 August	660	3.3	8.0	57.8
	9 September	829	4.2	10.1	67.8
	10 October	886	4.5	10.8	78.6
	11 November	904	4.6	11.0	89.6
	12 December	853	4.3	10.4	100.0
	Total	8218	41.5	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	-1 Not Answered	150	.8		
	Total	11569	58.5		
Total		19787	100.0		

(ii) Whether or not the mother was certain of the date of LMP

DEL_P1005 B2b: Mother certain of date of LMP

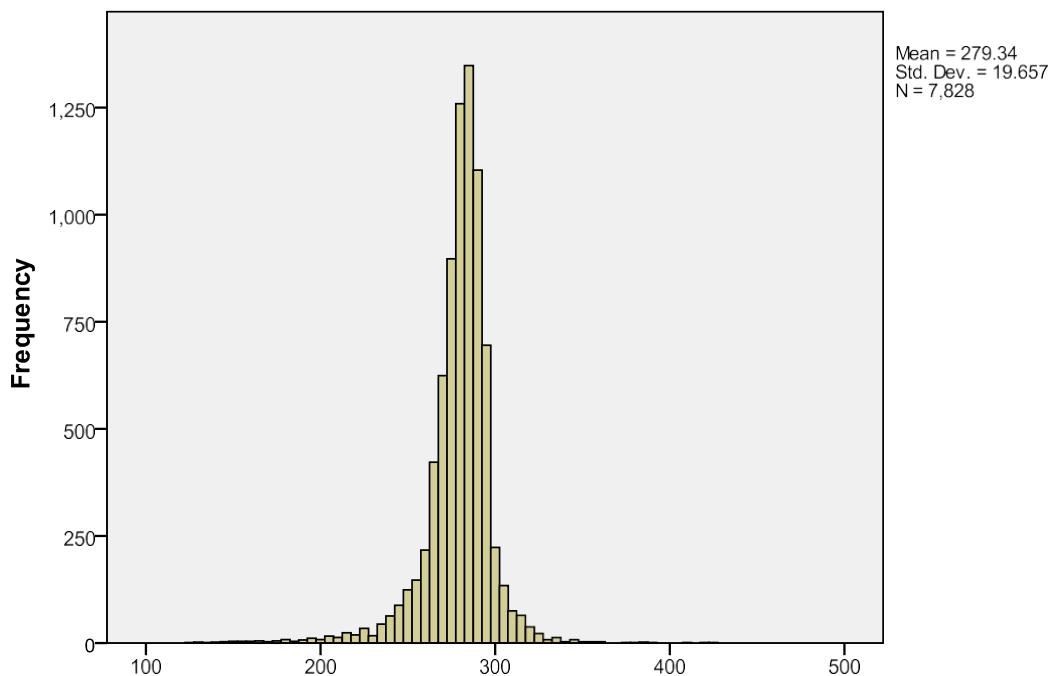
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	6737	34.0	82.4	82.4
	2 No	1441	7.3	17.6	100.0
	Total	8178	41.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-9 Can't tell from notes	58	.3		
	-3 Unsure	80	.4		
	-1 Not Answered	53	.3		
	Total	11609	58.7		
Total		19787	100.0		

(iii) Gestation at delivery based on LMP regardless of whether mother is certain or not. This is calculated as the length of time from the date of LMP and date of delivery and is presented both as the no. of days and the no. of completed weeks.

DEL_P1006 DV: Gestation in days based on

LMP

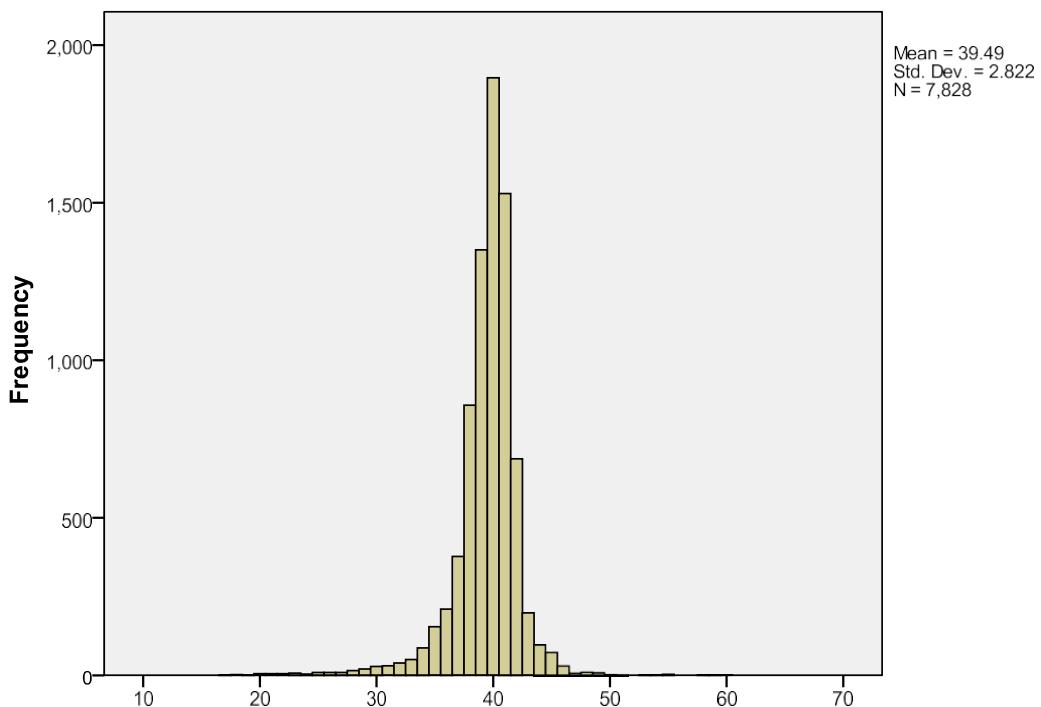
LMP	
N	Valid
	7828
	Missing
	11959
Mean	279.34
Median	282.00
Std. Deviation	19.657
Range	298
Minimum	125
Maximum	423



DEL_P1007 DV: Gestation in weeks based on

LMP

N	Valid	7828
	Missing	11959
Mean		39.49
Median		40.00
Std. Deviation		2.822
Range		43
Minimum		17
Maximum		60

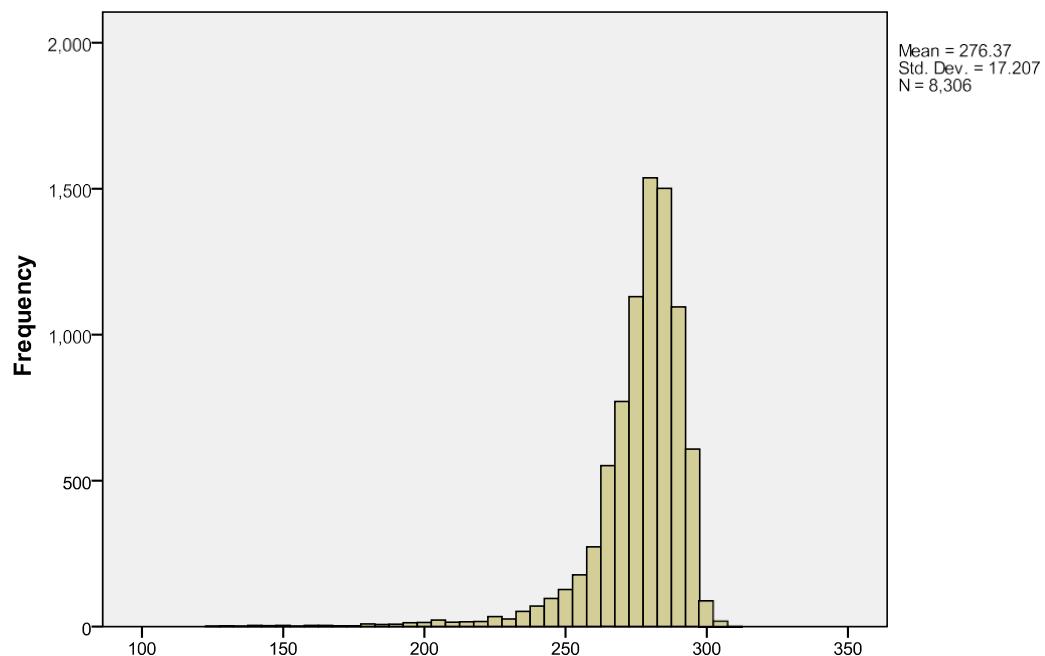


- (iv) Gestation based on best clinical estimate of expected date of delivery (EDD).
 The DAs were instructed to use the first dating scan unless over-ruled later.
 The gestation was then calculated as though the date of LMP was 280 days prior to the EDD.

DEL_P1008 DV: Gestation in days based on

final clinical estimate of EDD

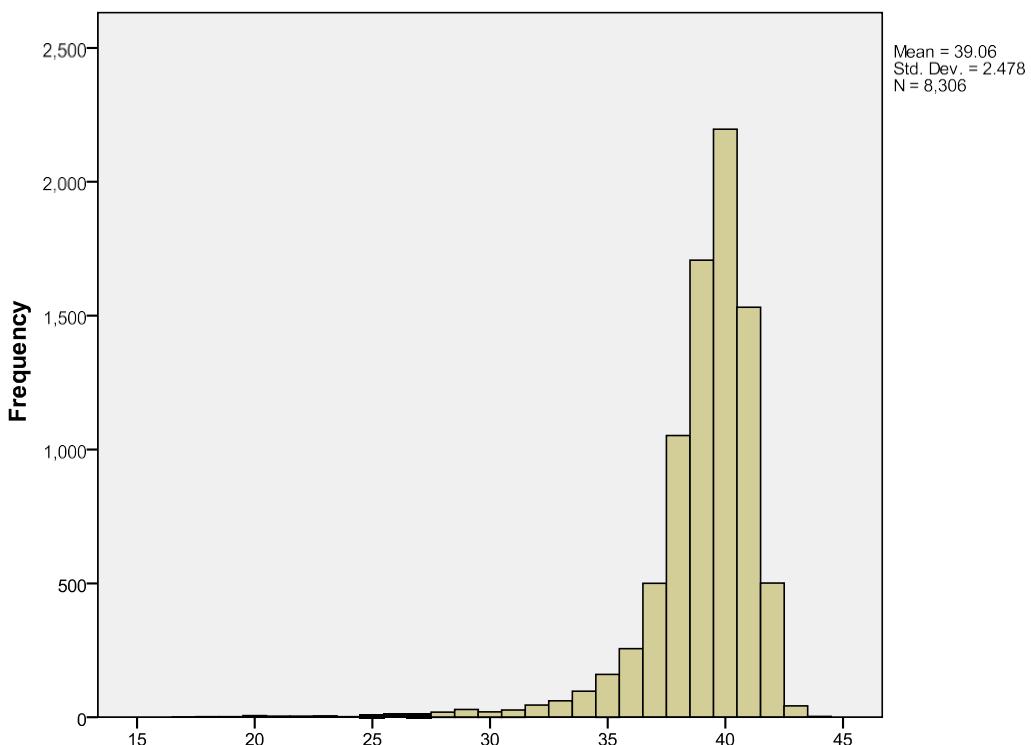
N	Valid	8306
	Missing	11481
Mean		276.37
Median		280.00
Std. Deviation		17.207
Range		185
Minimum		125
Maximum		310



DEL_P1009 DV: Gestation in weeks based on

final clinical estimate of EDD

N	Valid	8306
	Missing	11481
Mean		39.06
Median		40.00
Std. Deviation		2.478
Range		27
Minimum		17
Maximum		44



(v) Preterm delivery (i.e. <259 days (37wk) by best clinical estimate)

DEL_P1010 DV: Preterm delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	774	3.9	9.3	9.3
	2 No	7532	38.1	90.7	100.0
	Total	8306	42.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	-5 Exact EDD not known	6	.0		
	-1 Not answered	54	.3		
	Total	11481	58.0		
Total		19787	100.0		

Please note that this variable should not be used to report the prevalence of preterm delivery unless the random subgroup alone is used.

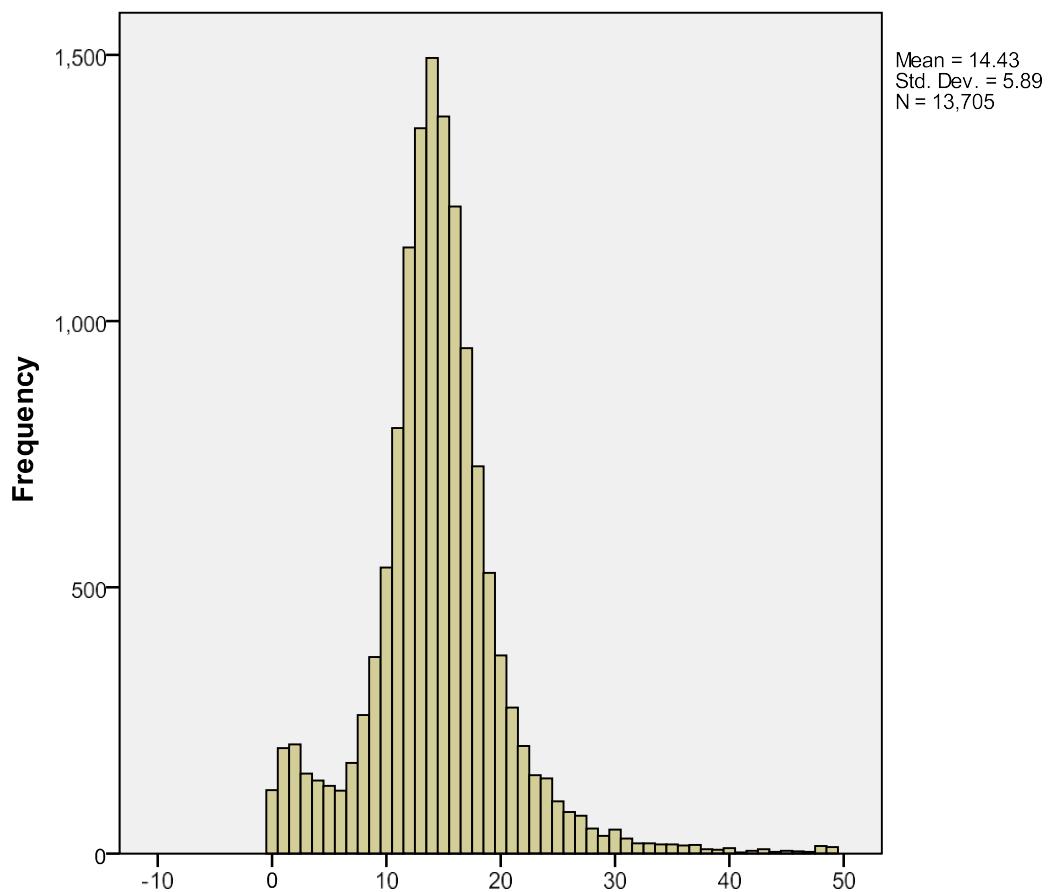
II.2 Summary data relating to pregnancy prior to the onset of labour/delivery

No. antenatal occasions on which measurements were made

The data abstractors recorded on page 4 of their form (Appendix A), all measures of maternal weight, results of tests of urine for protein and glucose, observations of any oedema, blood pressure and haemoglobin. The dates and place where each set of measurements was carried out was recorded regardless of which measurements were taken. The total no. of measurements is shown below.

DEL_P1015 Number of antenatal measurements

N	Valid	13705
	Missing	6082
Mean		14.43
Median		14.00
Std. Deviation		5.890
Range		49
Minimum		0
Maximum		49



It should be noted that a low no. of occasions may suggest that the mother was late in attending for antenatal care. Alternatively she may have attended elsewhere before moving into the area, and her previous notes had not been forwarded.

Identification of hypertensive disorders of pregnancy

These data are related to the clinician noted diagnosis; no definitions are given. It is recommended that these data are not used in any study focussing on hypertension during pregnancy. Instead the classifications based on the serial measures of blood pressure and proteinuria should be used. Longitudinal records of blood pressures and proteinuria are available in Appendix F, and summarised in variables P1023 and P1024.

Diagnosed hypertensive disorders of pregnancy (HDP)

For the variable, essential hypertension was excluded if diagnosed pre-pregnancy, but included if there was a rise in blood pressure during pregnancy.

DEL_P1020 B5: Hypertension/pre-eclampsia diagnosed at any time during pregnancy

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	668	3.4	8.2	8.2
	2 No	7507	37.9	91.8	
	Total	8175	41.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	194	1.0		
	Total	11612	58.7		
Total		19787	100.0		

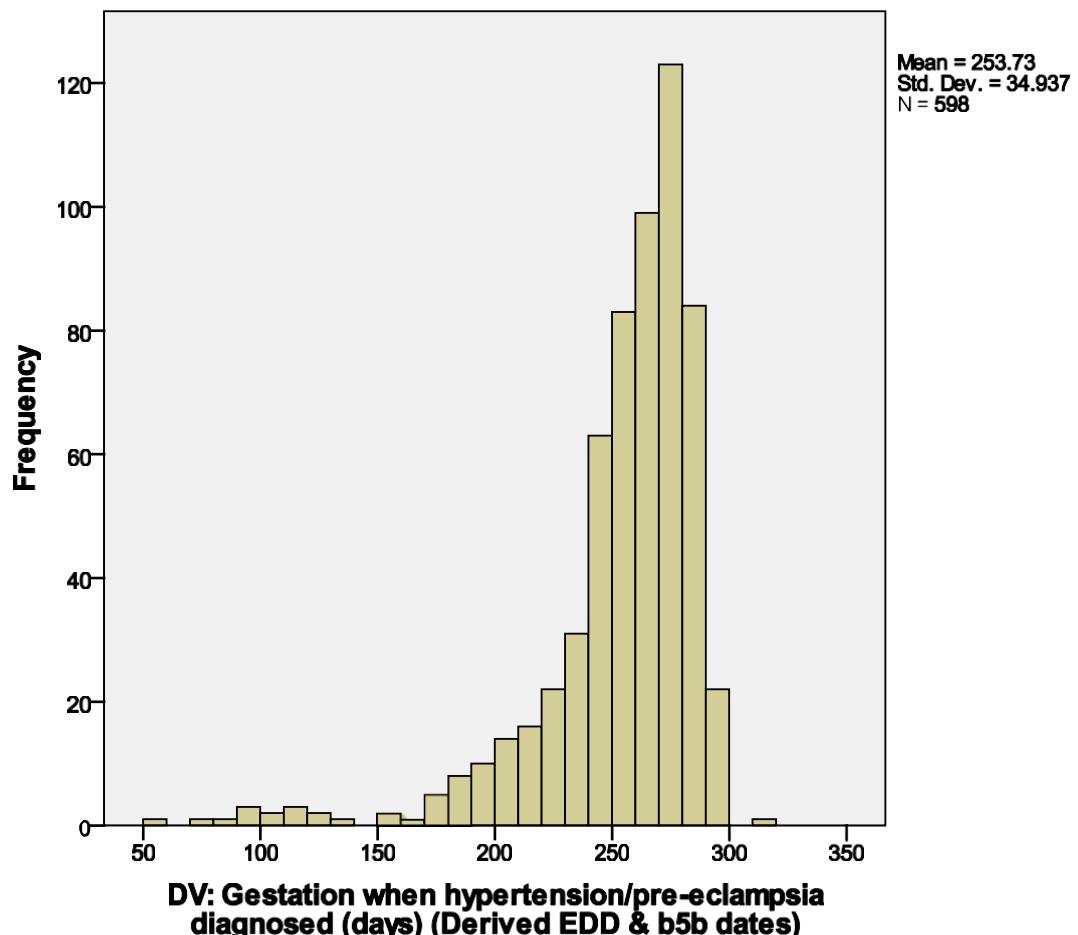
For diagnoses given above, the date of diagnosis was recorded, and converted into gestation at diagnosis.

DEL_P1021 DV: Gestation when

hypertension/ pre-eclampsia diagnosed

(days) (Derived EDD & b5b dates)

N	Valid	598
	Missing	19189
Mean		253.73
Median		262.00
Std. Deviation		34.937
Range		259
Minimum		55
Maximum		314



Eclamptic convulsions

Any cases of prenatal eclampsia were also recorded.

DEL_P1022 B6l: Eclamptic convulsions noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	8369	42.3	100.0	100.0
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

N.B. The mother herself was asked early in pregnancy whether she had a history of hypertension and, if so, whether this only happened in pregnancy (see variables D046-D048).

N.B. See also intrapartum and postpartum details related to hypertension/pre-eclampsia/ eclampsia.

HDP based on measurements

[Please note that details of blood pressure and protein measures were abstracted for all available records (see Appendix F)].

(a) Pre-eclampsia

Here pre-eclampsia is defined as 2 separate occasions with either a systolic blood pressure $\geq 140\text{mm}$ or a diastolic pressure $\geq 90\text{mm}$ plus at least 1+ of proteinuria at the same time as the raised blood pressure. Here we have included women whether or not they had raised blood pressure prior to 20 weeks gestation.

DEL_P1023 Pre-eclampsia

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	328	1.7	2.4	2.4
	2 No	13377	67.6	97.6	100.0
	Total	13705	69.3	100.0	
Missing	-10 No delivery data	6077	30.7		
	-1 Not available	5	.0		
	Total	6082	30.7		
Total		19787	100.0		

(b) HDP

Here HDP is defined as any woman with raised blood pressure on 2 occasions as defined above together with the cases of pre-eclampsia. It excludes women with pre-existing hypertension.

DEL_P1024 HDP

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2268	11.5	16.5	16.5
	2 No	11437	57.8	83.5	100.0
	Total	13705	69.3	100.0	
Missing	-10 No delivery data	6077	30.7		
	-1 Not available	5	.0		
	Total	6082	30.7		
Total		19787	100.0		

Diabetes

There is no information on the types of diabetes (e.g. gestational diabetes) other than whether or not she had diabetes during pregnancy. Further information on the types and treatment for diabetes can be found in the detailed questionnaires of the mothers. Measures of glycosuria are also available in the antenatal files of Lawlor (see Appendix F).

DEL_P1030 B6k: Diabetes noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	91	.5	1.1	1.1
	2 No	8278	41.8	98.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Random blood sugars measured

(normal range 3.5 – 5.5)

DEL_P1032 B6z: Random blood sugars test during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	978	4.9	11.7	11.7
	2 No	7391	37.4	88.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Other blood sugar tests

This was coded if any of the following were undertaken: fasting bloods, serial blood sugars, glucose tolerance tests and fructosamine.

DEL_P1033 B6g: Blood sugar tests during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	716	3.6	8.6	8.6
	2 No	7653	38.7	91.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Glycosuria

This was identified from the serial measurements undertaken – using a definition of 2+ or more on two occasions.

DEL_P1034 Glycosuria (2+ or more) on two occasions

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	521	2.6	3.8	3.8
	2 No	13184	66.6	96.2	100.0
	Total	13705	69.3	100.0	
Missing	-10 No delivery data	6077	30.7		
	-1 Not available	5	.0		
	Total	6082	30.7		
Total		19787	100.0		

Vaginal bleeding

The following variables record the different episodes of bleeding during pregnancy. They should probably be used in conjunction with the mother's reports in her questionnaires, as some episodes are unlikely to be in the obstetric record (see variables B049, B050, C055, E103).

1st trimester

DEL_P1040 B6jj: Vaginal bleeding in 1st trimester

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	935	4.7	11.2	11.2
	2 No	7434	37.6	88.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

2nd trimester

DEL_P1041 B6kk: Vaginal bleeding in 2nd trimester

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	415	2.1	5.0	5.0
	2 No	7954	40.2	95.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

3rd trimester

DEL_P1042 B6ll: Vaginal bleeding in 3rd trimester

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	647	3.3	7.7	7.7
	2 No	7722	39.0	92.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Threatened abortion was ticked if there were contractions before 24 weeks whether or not bleeding was present.

DEL_P1043 B6dd: Threatened abortion during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	136	.7	1.6	1.6
	2 No	8233	41.6	98.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Abruptio

DEL_P1044 B6w: Placental abruption noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	27	.1	.3	.3
	2 No	8342	42.2	99.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Placenta praevia

The DAs were instructed to code 'placenta praevia' either if it was stated as such in the notes or if the placenta was covering or adjoining the internal os post 32 weeks.

DEL_P1045 B6x: Placenta praevia noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	61	.3	.7	.7
	2 No	8308	42.0	99.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

From P1030-P1035 a variable has been derived (P1046) to indicate whether any bleeding was noted, in the obstetric records. The variable includes threatened abortion and placenta praevia even if no bleeding was noted.

DEL_P1046 DV: Any bleeding in pregnancy before onset of labour

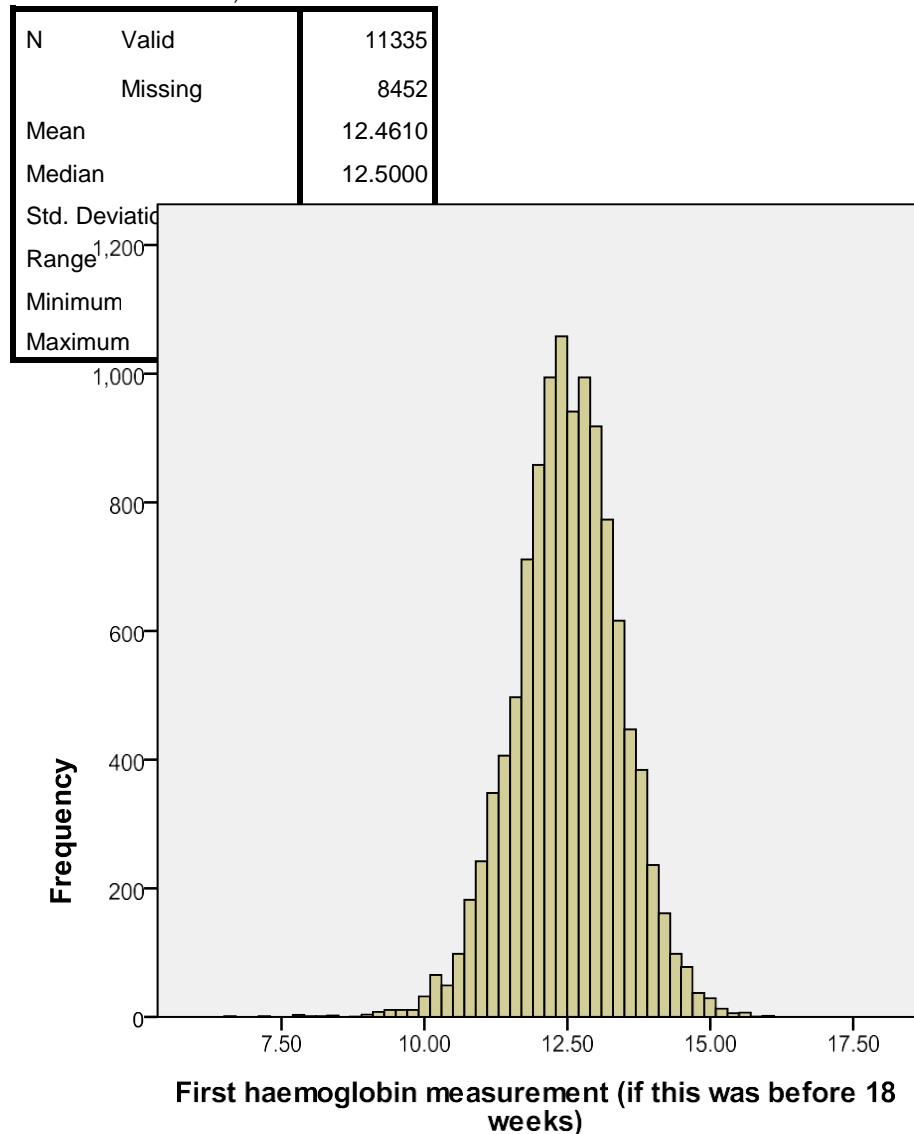
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1752	8.9	20.9	20.9
	2 No	6617	33.4	79.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

N.B. Bleeding intrapartum and postpartum can be found in P1268 and P1420-5.

Hb measurements

The serial measures of haemoglobin can be identified from Appendix F. Here we give the first Hb recorded. For other measures of Hb and diagnoses of anaemia see the index.

DEL_P1047 First haemoglobin measurement (if this was before 18 weeks)



Infections noted

Abstractors noted as tick box variables whether any of the following infections were recorded: genital herpes, gonorrhoea, syphilis, urinary infection, a vaginal discharge/infection or hepatitis B. Other infections recorded were described as text in B7a. [However the mother also recorded the infections she had had during pregnancy in her own self-completion questionnaires]. For genital herpes the DAs were told to record only if there had been an outbreak to the mother during this pregnancy.

Genital herpes

DEL_P1050 B6p: Genital herpes noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	29	.1	.3	.3
	2 No	8340	42.1	99.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Gonorrhoea

DEL_P1051 B6q: Gonorrhoea noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	8369	42.3	100.0	100.0
	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Syphilis

DEL_P1052 B6cc: Syphilis noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3	.0	.0	.0
	2 No	8366	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Urinary tract infection: cystitis was not included but listed as text and keyed.

DEL_P1053 B6hh: Urinary tract infection noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	510	2.6	6.1	6.1
	2 No	7859	39.7	93.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Vaginal infection/discharge: if 'thrush' was described it was coded here.

DEL_P1054 B6mm: Vaginal discharge/infection during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1229	6.2	14.7	14.7
	2 No	7140	36.1	85.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Hepatitis B

DEL_P1055 B6r: Hepatitis B noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3	.0	.0	.0
	2 No	8366	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Other specified conditions

Anaemia

Here it was noted whether anaemia was diagnosed (but the DAs were told to only code 'yes' if there was evidence that Hb<10g/dl)

DEL_P1060 B6c: Anaemia noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1052	5.3	12.6	12.6
	2 No	7317	37.0	87.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Hyperemesis or excessive vomiting

DEL_P1061 B6m: Excessive vomiting noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	86	.4	1.0	1.0
	2 No	8283	41.9	99.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Many other conditions have been recorded as text, but have not yet been coded.

Tests carried out in pregnancy

Tick boxes were used to record whether or not any of the following were carried out: amniocentesis, chorionic villus sampling, random and other blood sugars, biophysical profile, measures of creatinine, ketones and urea/electrolytes.

Amniocentesis

DEL_P1070 B6b: Amniocentesis noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	226	1.1	2.7	2.7
	2 No	8143	41.2	97.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

CVS

DEL_P1071 B6i: Chorionic villus sampling done during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	62	.3	.7	.7
	2 No	8307	42.0	99.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Biophysical profile

DEL_P1074 B6e: Biophysical profile done during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	416	2.1	5.0	5.0
	2 No	7953	40.2	95.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Creatinine measured

DEL_P1075 B6j: Creatinine measured during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	627	3.2	7.5	7.5
	2 No	7742	39.1	92.5	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Ketonuria

DEL_P1076 B6t: Ketones noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	864	4.4	10.3	10.3
	2 No	7505	37.9	89.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Abnormal urea/electrolytes

DEL_P1077 B6ii: Urea & electrolytes done during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1029	5.2	12.3	12.3
	2 No	7340	37.1	87.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Abnormal AFP (alpha-fetaprotein)

This test was almost universally carried out in mid pregnancy. Variables P1080-P1084 indicate whether an abnormal AFP result was noted, what level this was and the gestation at which it was measured. For a proportion of those, a repeat measure was carried out. [the DA's were told not to record a raised risk of Down's syndrome or MOM (multiple of median) here]

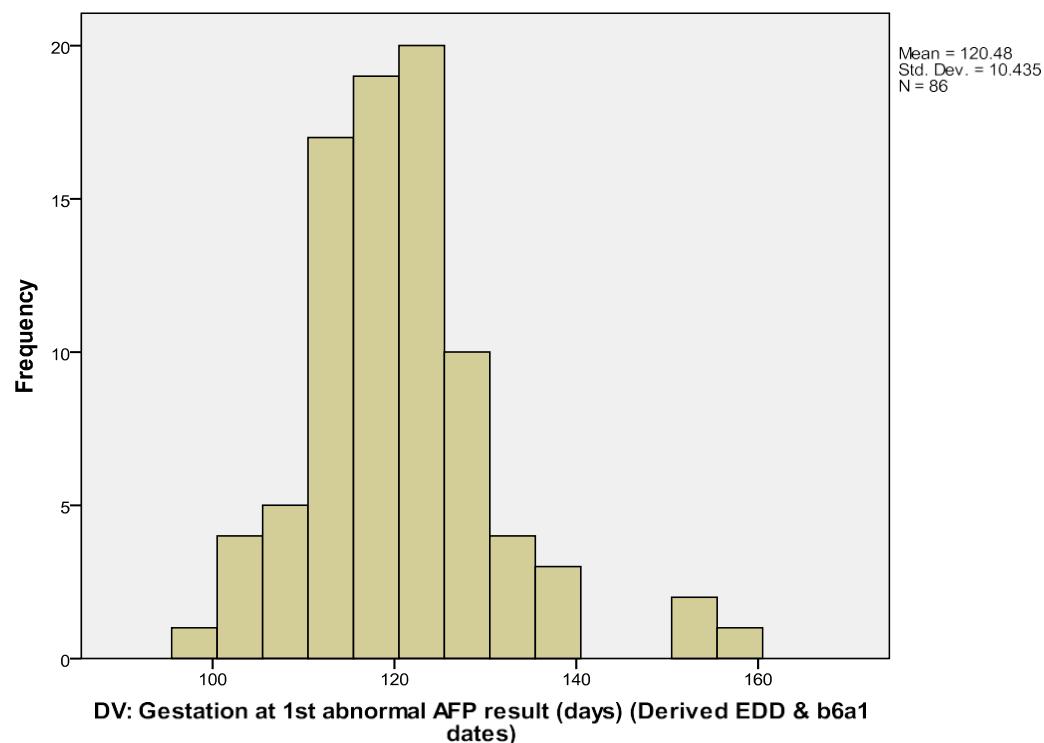
DEL_P1080 B6a: Abnormal AFP noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	92	.5	1.1	1.1
	2 No	8277	41.8	98.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

DEL_P1081 DV: Gestation at 1st abnormal AFP

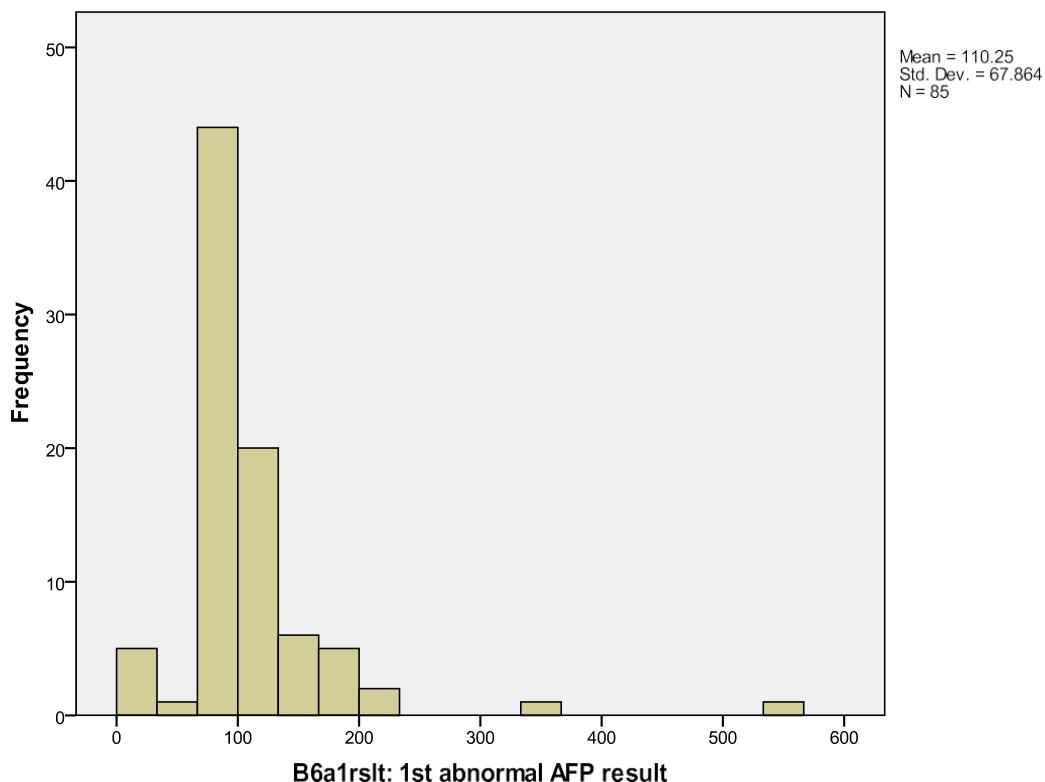
result (days) (Derived EDD & b6a1 dates)

N	Valid	86
	Missing	19701
Mean		120.48
Median		119.00
Std. Deviation		10.435
Range		59
Minimum		98
Maximum		157



DEL_P1082 B6a1rslt: 1st abnormal AFP result

N	Valid	85
	Missing	19702
Mean		110.25
Median		93.00
Std. Deviation		67.864
Range		539
Minimum		24
Maximum		563



DEL_P1083 DV: Gestation at 2nd abnormal AFP

result (days) (Derived EDD & b6a2 dates)

N	Valid	23
	Missing	19764
Mean		126.65
Median		128.00
Std. Deviation		8.194
Range		36
Minimum		110
Maximum		146

DEL_P1084 B6a2rslt: 2nd abnormal AFP result

N	Valid	24
	Missing	19763
Mean		119.83
Median		122.00
Std. Deviation		39.393
Range		204
Minimum		73
Maximum		277

Blood groups and various antibodies

The ABO and Rhesus blood groups were recorded as were whether Rh antibodies were noted.

DEL_P1085 B3a: Mother's blood group: ABO

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 A	3565	18.0	43.0	43.0
	2 B	736	3.7	8.9	51.8
	3 O	3745	18.9	45.1	96.9
	4 AB	254	1.3	3.1	100.0
	Total	8300	41.9	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	69	.3		
	Total	11487	58.1		
Total		19787	100.0		

DEL_P1086 B3b: Mother's blood group: Rhesus

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Rhesus +ve	6940	35.1	83.6	83.6
	2 Rhesus -ve	1361	6.9	16.4	100.0
	Total	8301	42.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	67	.3		
	-1 Not Answered	1	.0		
	Total	11486	58.0		
	Total	19787	100.0		

Rh antibodies

DEL_P1087 B6aa: Rh antibodies noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	29	.1	.3	.3
	2 No	8340	42.1	99.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Anti-D

Whether the mother was given anti-D (to prevent Rh antibodies) was recorded.

DEL_P1088 B6d: Anti D given during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	153	.8	1.8	1.8
	2 No	8216	41.5	98.2	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Rubella antibodies

DEL_P1089 B3c: Mother's blood: rubella immune

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7897	39.9	99.0	99.0
	2 No	81	.4	1.0	100.0
	Total	7978	40.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	268	1.4		
	-8 NS	123	.6		
	Total	11809	59.7		
Total		19787	100.0		

Other antibodies These are described as text, but not yet coded.

DEL_P1090 B6v: Other antibodies noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	165	.8	2.0	2.0
	2 No	8204	41.5	98.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Presentation during pregnancy

Breech

DEL_P1100 B6f: Breech presentation noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2927	14.8	35.0	35.0
	2 No	5442	27.5	65.0	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Transverse lie

DEL_P1101 B6ff: Transverse lie noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1725	8.7	20.6	20.6
	2 No	6644	33.6	79.4	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Unstable lie

DEL_P1102 B6gg: Unstable lie noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	65	.3	.8	.8
	2 No	8304	42.0	99.2	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Amount of amniotic fluid

Oligohydramnios

DEL_P1103 B6u: Oligohydramnios noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	117	.6	1.4	1.4
	2 No	8252	41.7	98.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Hydramnios

DEL_P1104 B6y: Polyhydramnios/hydramnios noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	114	.6	1.4	1.4
	2 No	8255	41.7	98.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Fetal growth

DEL_P1105 B6bb: I.U.G.R suspected during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	300	1.5	3.6	3.6
	2 No	8069	40.8	96.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Threatened preterm labour.

This was coded for contractions with or without bleeding after 24 weeks and <37 weeks. It was coded even if it continued to preterm labour.

DEL_P1106 B6ee: Threatened pre-term labour during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	592	3.0	7.1	100.0
	2 No	7777	39.3	92.9	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Multiple pregnancy

This variable indicates that the pregnancy was diagnosed as having more than one fetus, and the subsequent variable indicates the gestation at which the multiple pregnancy was diagnosed. Note, however, that not all the multiple pregnancies ended as multiple births (see P50). If an ultrasound scan showed a 'double sac', 'yes' was coded here.

DEL_P1107 B8a: Multiple pregnancy

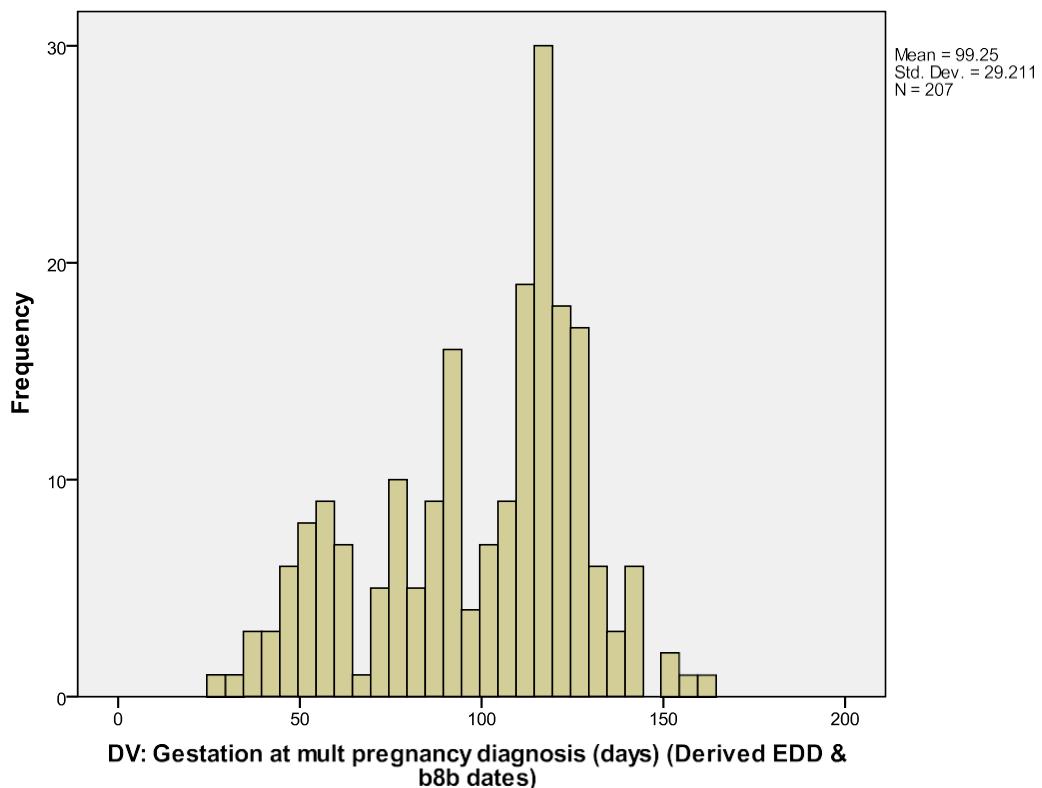
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	221	1.1	2.7	100.0
	2 No	8058	40.7	97.3	
	Total	8279	41.8	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	-1 Not Answered	89	.4		
	Total	11508	58.2		
Total		19787	100.0		

Gestation at diagnosis

DEL_P1108 DV: Gestation at mult pregnancy

diagnosis (days) (Derived EDD & b8b dates)

N	Valid	207
	Missing	19580
Mean		99.25
Median		109.00
Std. Deviation		29.211
Range		137
Minimum		27
Maximum		164



II.3 Ultrasound examinations

The DAs were instructed to abstract all information on the ultrasound scans that the mother had during pregnancy. Up to 15 scans were keyed. For >15 scans, details were described on an extra sheet which was keyed in house.

For each scan, the date of the scan, the reason for the scan, and the results were recorded.

Gestation at each scan

This was calculated using the date of scan and the best clinical estimate of the EDD.

Types and reasons for scans

DAs were given the following instructions:

Types and reasons for scans vary considerably, please ask if unsure:-

- If multiple reasons – code 21 – document reasons in B7a or under relevant admission
- BPP – code H = Real-time scan (RTS)
- BPPs not usually documented at Southmead as such (RTS)
- Doppler scans – Normal P.I. (pulsatility index) depends on gestation, document all P.I. results
- If Doppler scan is done at the same time as another scan, enter as two separate scans
- Doppler = Sonicaid. This is not always obstetric – could be for possible DVT
- Abdominal pain plus ?abruption – code 24 (fetal well-being)
- Abdominal pain only – code 1
- If mother has a condition which might affect the baby or if she has had a previous child with an abnormality (e.g. cleft palate) and an extra scan is done – code 24 (fetal well-being)
- Specific doubts about the fetus e.g. AFP ↑ or Down's risk ↑ - code 27 (suspected fetal abnormality)
- Scans in labour document on scan page, also should be documented on C13s ("see scan page")
- Maternal reassurance – code Type = Z and Reason = 20 then document in B7a
- Scans for maternal renal, gall bladder etc code Type = Z and Reason = 20 then document in B7a
- Choroid plexus cyst no longer seen – Text = 1 (normal)
- Placenta <5 cms from internal os is low – Text = 2
- Placenta >5 cms from internal os is normal – Text = 1
- If pelvimetry has been carried out check if it was by scan or x-ray and document on scan page, including unclear if x-ray or scan”
- CT Scan & CAT scan are both x-rays
- Extra scan due to previous miscarriage – code 25
- Weston Routine Scans are Survey Scans – code J

- If scanned for cervical length (incompetence) – code 1
- Amniocentesis must have own scan line – code H at BMH and Z at Southmead (unless clearly stated otherwise)

Results of scans

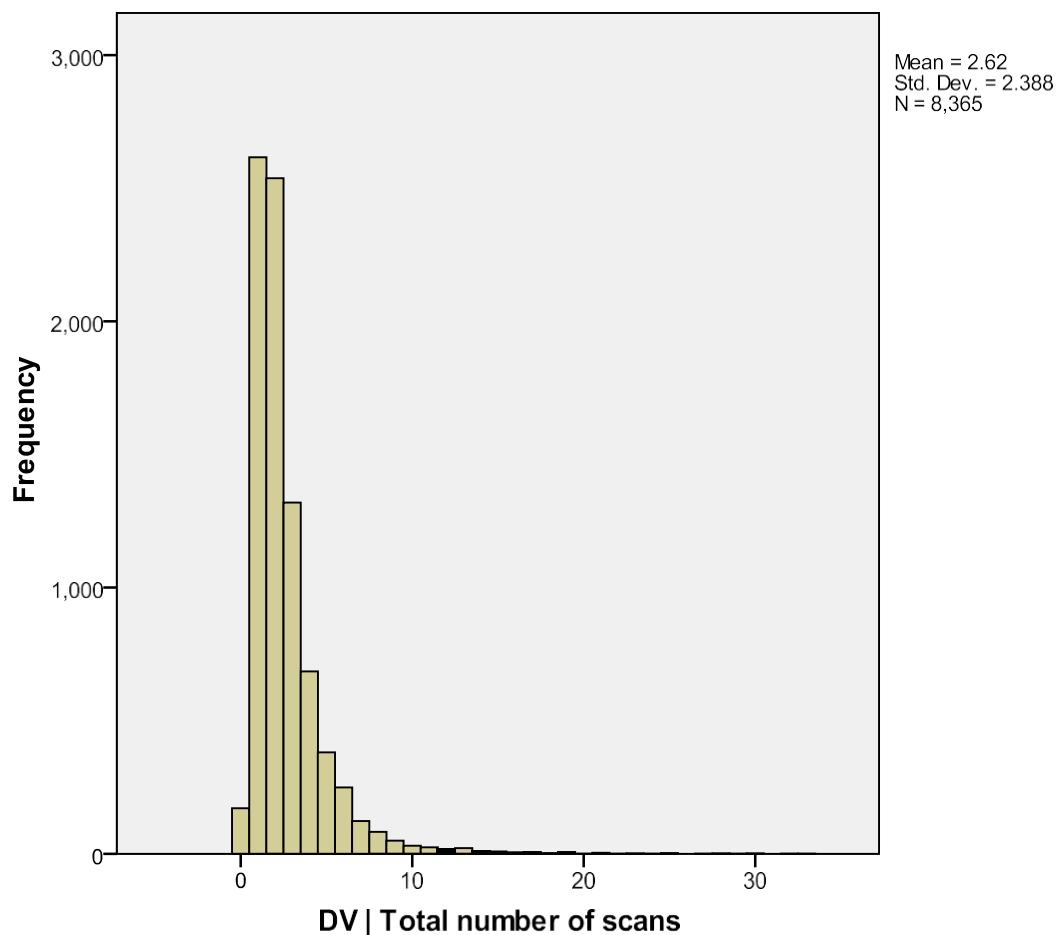
'1' was coded if nothing out of the ordinary was noted, and '2' if there is something of importance picked up on the scan: including breech or transverse presentation; date change by more than 1 week (this must be checked on a gestational calendar; low placenta; or twins (once twins are diagnosed there is no need to code 2 for any following scans that confirm twins).

Total no. scans

As can be seen below, the number of scans ranged from 0 to 33.

DEL_P1110 DV | Total number of scans

N	Valid	8365
	Missing	11422
Mean		2.62
Median		2.00
Std. Deviation		2.388
Range		33
Minimum		0
Maximum		33



Details of each scan are shown in Appendix D.

II.4. Procedures and treatments during pregnancy

Procedures

Cervical cerclage

DEL_P1120 B6h: Cervical cerclage done during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	23	.1	.3	.3
	2 No	8346	42.2	99.7	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

ECV

DEL_P1121 B6n: External cephalic version done during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	26	.1	.3	.3
	2 No	8343	42.2	99.7	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Failed ECV

DEL_P1122 B6o: Failed E.C.V noted during pregnancy before onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	38	.2	.5	.5
	2 No	8331	42.1	99.5	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Rest

Mother advised to rest

The reasons for the mother being advised to rest were keyed as text.

DEL_P1123 B9a: Mother made to rest in bed for more than a week

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	50	.3	.6	.6
	2 No	7987	40.4	99.4	
	Total	8037	40.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	332	1.7		
	Total	11750	59.4		
Total		19787	100.0		

DEL_P1124 B9b: Mother made to rest in bed for less than a week

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	606	3.1	7.5	7.5
	2 No	7432	37.6	92.5	
	Total	8038	40.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	331	1.7		
	Total	11749	59.4		
Total		19787	100.0		

If stated that mother rested rather than 'advised' to rest, it was not coded here.

DEL_P1125 B9c: Mother advised to rest (not in bed) during pregnancy

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	953	4.8	11.9	11.9
	2 No	7077	35.8	88.1	
	Total	8030	40.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	339	1.7		
	Total	11757	59.4		
Total		19787	100.0		

Dietary advice

The reasons for dietary changes were keyed as text.

Salt intake

DEL_P1126 B9d: Mother's salt intake restricted during pregnancy

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7	.0	.1	.1
	2 No	8066	40.8	99.9	100.0
	Total	8073	40.8	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	296	1.5		
	Total	11714	59.2		
Total		19787	100.0		

Special diet

DEL_P1127 B9e: Mother put onto a special diet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	118	.6	1.5	1.5
	2 No	7953	40.2	98.5	100.0
	Total	8071	40.8	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	298	1.5		
	Total	11716	59.2		
Total		19787	100.0		

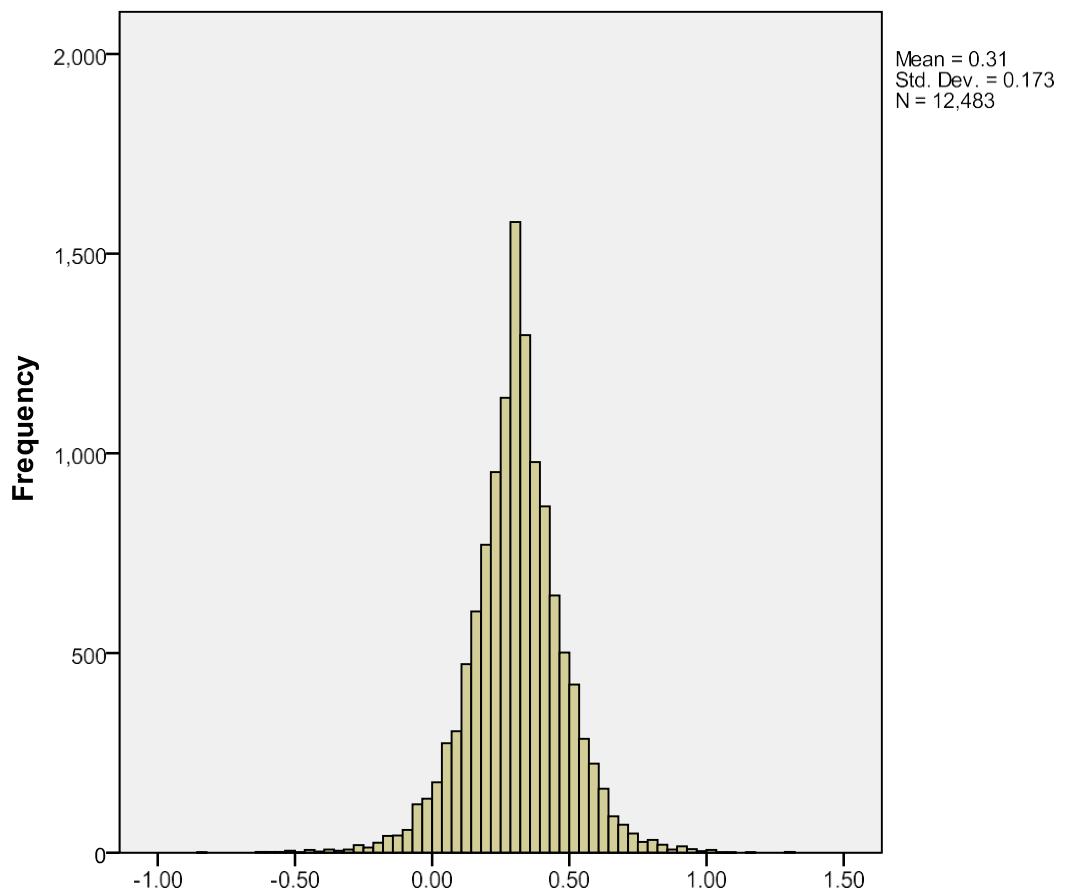
II.5. Antenatal weight measurements

Measurements of weight throughout pregnancy are detailed in Appendix F. There are pitfalls in looking at overall weight gain, due to it changing in rate at different stages of pregnancy. Here we provide two variables – the weight change from 0 to 18 weeks (where the zero time point relies on the mother's report of her weight pre-pregnancy), and from 18 to 28 weeks, but see Appendix F for other variables.

DEL_P1128 Weight change (kg/week) between

0 and 18 weeks

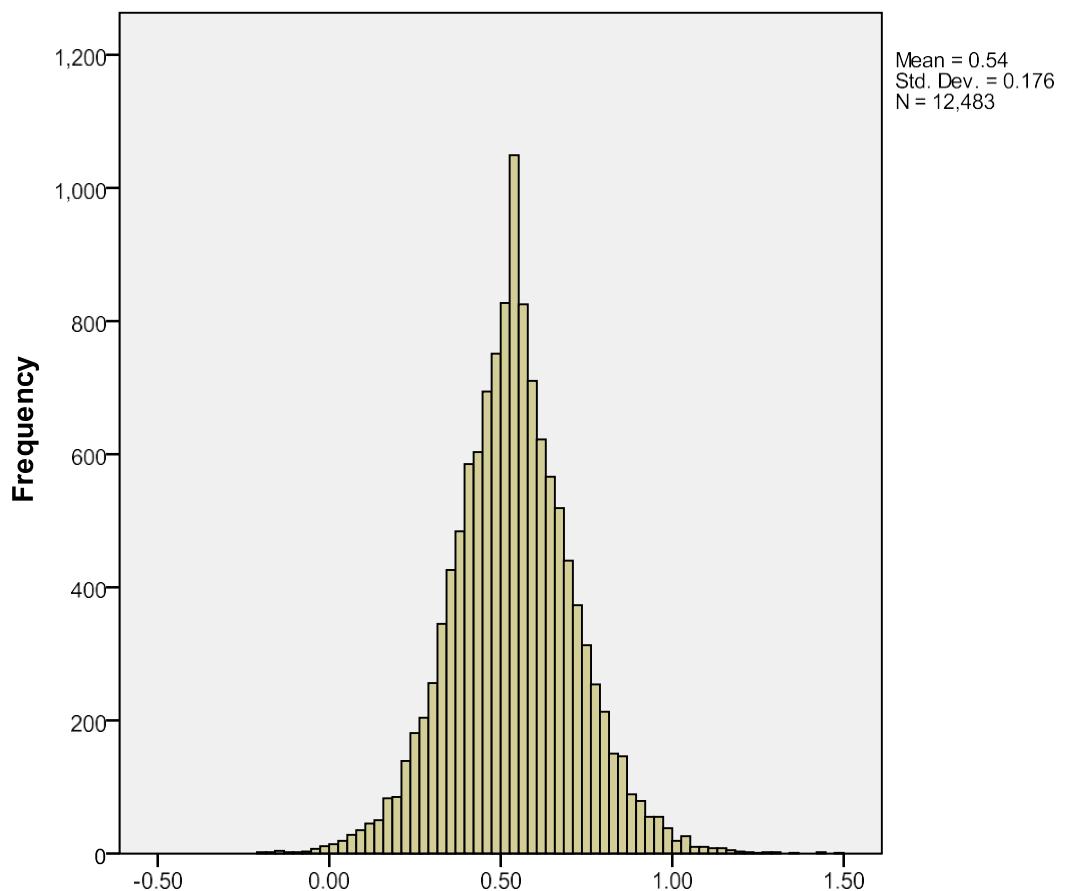
N	Valid	12483
	Missing	7304
Mean		.3088
Median		.3102
Std. Deviation		.17261
Range		2.15
Minimum		-.84
Maximum		1.31



DEL_P1129 Weight change (kg/week) between

18 and 28 weeks

N	Valid	12483
	Missing	7304
Mean		.5366
Median		.5360
Std. Deviation		.17623
Range		1.66
Minimum		-.19
Maximum		1.48



II.6. Antenatal hospital admissions

The DAs were instructed to record all admissions. Their instructions were as follows:

“Count **days** in Hospital not nights.

Each day in hospital should have an entry in the antenatal observations. In pencil, bracket together all lines of observations for each admission, state which admission and number each admission. If more than one reading on that day, take the worst, i.e. highest diastolic.

If admitted pre-labour but stays in until after delivery, count days stayed from admission to discharge.

If admitted twice in one day to two hospitals (i.e. transferred) put down as two admissions. If admitted twice in one day to same hospital also put down as two admissions. In both circumstances enter one line of antenatal observations for each admission.

If admitted for a reason not connected with pregnancy do not put in lines of 8s for each day. Do put in ANC lines if weight, urine, BP or HB results found during that admission. Briefly document admission as usual.

If seen in A&E or CDS (or on Ashcombe Ward at Weston) and not actually admitted or not clear if admitted or not, treat as an admission.

Admissions should give a brief summary of reason for admission, investigations (including CTGs), treatments (including drugs) and outcome. Only document VE results if unusual.

If long admission with home leave at weekends document as same admission. If mother admitted the day before an elective CS for clerking, document as 2 admissions (C1a will be actual day of CS).

If transferred in labour take time of admission from first hospital”.

There was space for 6 admissions on the form – further admissions were documented on separate sheets of paper and keyed separately.

For each admission the following information was recorded:

- (a) Date of admission – this was converted to gestation at admission
- (b) No. of days stayed
- (c) The hospital concerned, coded as BMH, Southmead or Other
- (d) Reasons for admission and any treatment. These were keyed as text but are not yet coded.

The details of (a) – (c) are given in Appendix E.

Summary of data

There were 5715 women admitted to hospital during pregnancy. The total no. of admissions varied from 0 to 18 (H002), and the no. of days in total that the mothers stayed as an inpatient varied from 1 to 80 (H001).

Admitted to hospital during pregnancy

DEL_P1130 B10a: Mother admitted to hospital during this pregnancy

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5715	28.9	69.5	69.5
	2 No	2504	12.7	30.5	100.0
	Total	8219	41.5	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	150	.8		
	Total	11568	58.5		
Total		19787	100.0		

II.7 Labour and delivery

Admission to hospital for delivery

DAs were instructed: "If admitted in labour and then sent home to await events, document briefly in C13s. Take time of admission from the admission which proceeds to delivery.

If admitted before onset of labour, then there should be a corresponding hospital admission and entry on the antenatal observations sheet".

(a) Where was the mother admitted from for delivery admission?

DEL_P1140 C2b: Where mother admitted from

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Admitted from home	7733	39.1	96.1	96.1
	2 Transferred during labour	53	.3	.7	96.7
	3 Other	263	1.3	3.3	100.0
	Total	8049	40.7	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 Not relevant	174	.9		
	-1 Not Answered	146	.7		
	Total	11738	59.3		
Total		19787	100.0		

(b) When was mother admitted in regard to labour/delivery?

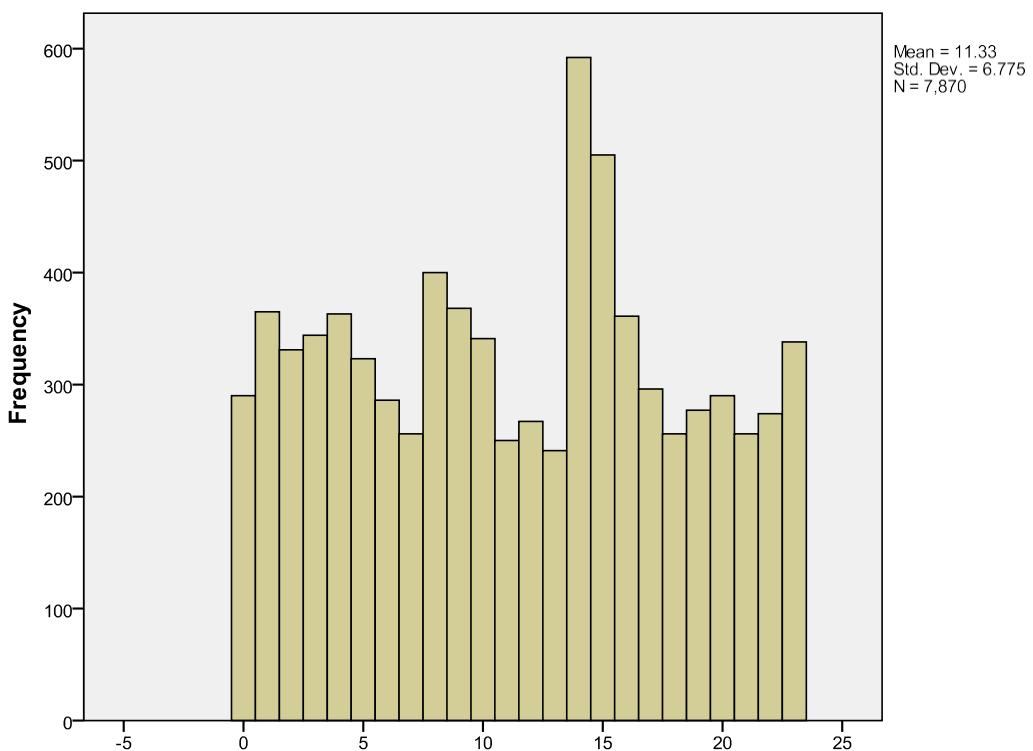
DEL_P1141 C2a: When mother admitted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Before onset of labour	4077	20.6	49.5	49.5
	2 In 1st stage	3846	19.4	46.7	96.2
	3 In 2nd stage transition	68	.3	.8	97.0
	4 In labour N.O.S	2	.0	.0	97.0
	5 Not admitted	174	.9	2.1	99.2
	6 Admitted NK when	70	.4	.8	100.0
	Total	8237	41.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	132	.7		
	Total	11550	58.4		
Total		19787	100.0		

(c) Hour of admission

DEL_P1142 C1ahr: Time of admission: hour

N	Valid	7870
	Missing	11917
Mean		11.33
Median		12.00
Std. Deviation		6.775
Range		23
Minimum		0
Maximum		23



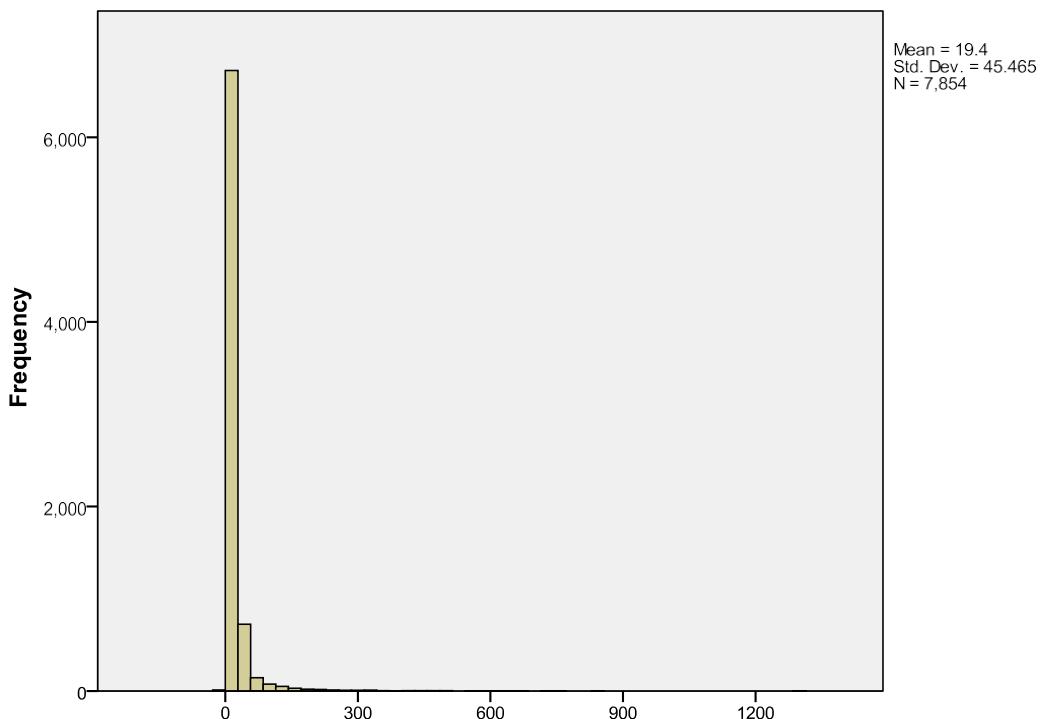
(d) Length of time from admission to delivery in hours

[N.B. includes minus figures for women admitted post delivery]

DEL_P1143 DV: Time from admission to

delivery (hours) (Derived c1a & c1e dates)

N	Valid	7854
	Missing	11933
Mean		19.40
Median		9.00
Std. Deviation		45.465
Range		1307
Minimum		-3
Maximum		1304



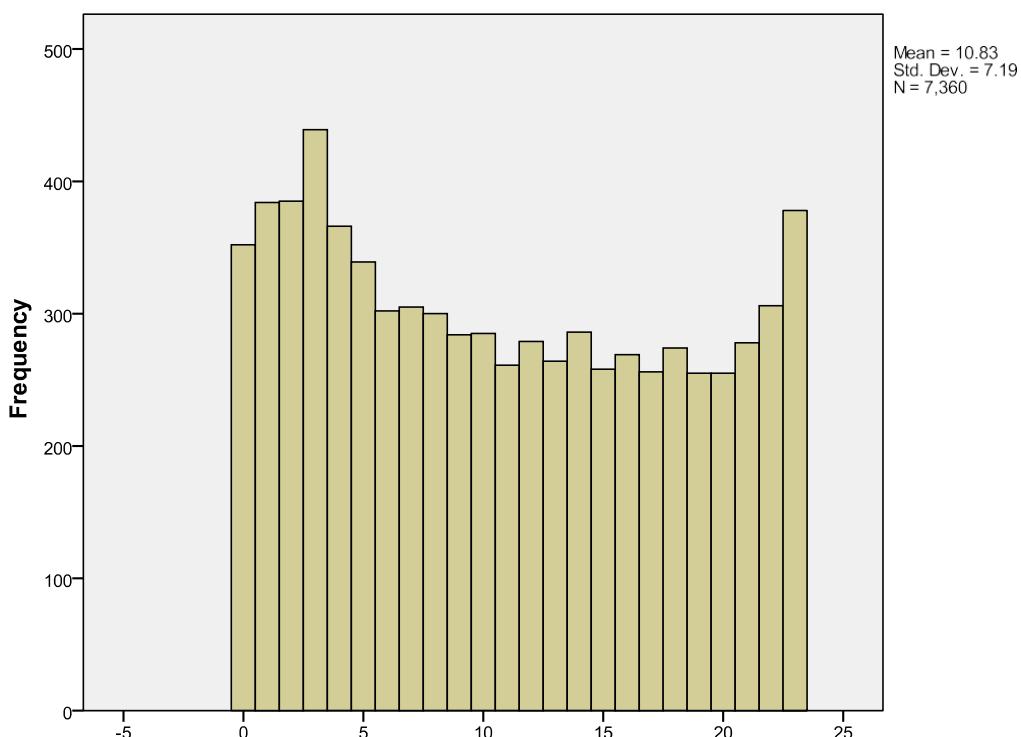
Membrane rupture

(a) Hour of membrane rupture

If the membranes had ruptured on more than one occasion the DAs noted the time of the first one recorded.

DEL_P1150 C1bhr: Time membrane ruptured :

hour	
N	Valid
	7360
	Missing
	12427
Mean	10.83
Median	10.00
Std. Deviation	7.190
Range	23
Minimum	0
Maximum	23



(b) How membranes ruptured

DAs were instructed that if membranes ruptured at VE they should tick “other” and state how, **unless** if stated as SRM then write “at VE n.o.s” and then code 8 for augmentation

DEL_P1151 C3a: How membranes ruptured

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Spontaneously	3540	17.9	43.3	43.3
	2 Artificially	3304	16.7	40.5	83.8
	3 At caesarean section	747	3.8	9.1	92.9
	4 Spontaneously & artificially	491	2.5	6.0	99.0
	5 Spontaneously & at caesarean section	14	.1	.2	99.1
	6 Other	71	.4	.9	100.0
	Total	8167	41.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	189	1.0		
	-1 Not Answered	13	.1		
	Total	11620	58.7		
Total		19787	100.0		

(c) Length of time from rupture to delivery (hours)

DEL_P1152 DV: Time from membrane rupture

to delivery (hours) (Derived c1b & c1e dates)

N	Valid	7352
	Missing	12435
Mean		9.78
Median		4.00
Std. Deviation		39.580
Range		1759
Minimum		0
Maximum		1759

If the membranes were ruptured at CS, the time was coded as <5 min

DEL_P1153 C3b: Length of interval between membrane rupture and delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 < 5 min	181	.9	2.5	2.5
	2 5-59 min	1538	7.8	20.8	23.3
	3 1-5 hr 59 min	2773	14.0	37.6	60.9
	4 6-23 hr 59 min	2267	11.5	30.7	91.6
	5 24-47 hr 59 min	462	2.3	6.3	97.8
	6 48 hr +	159	.8	2.2	100.0
	Total	7380	37.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	969	4.9		
	-7 Unresolved	6	.0		
	-1 Not Answered	14	.1		
	Total	12407	62.7		
Total		19787	100.0		

(d) Whether membranes ruptured before or after regular onset of contractions

DEL_P1154 C3c: Membranes ruptured before or after onset of regular contractions

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Before	2279	11.5	28.0	28.0
	2 After	4724	23.9	58.0	86.0
	3 With onset of regular contractions	335	1.7	4.1	90.2
	4 Unclear	26	.1	.3	90.5
	7 No contractions	775	3.9	9.5	100.0
	Total	8139	41.1	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	219	1.1		
	-1 Not Answered	11	.1		
	Total	11648	58.9		
Total		19787	100.0		

Induction of labour

DEL_P1160 C4i: How labour started

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Spontaneously	5873	29.7	71.5	71.5
	2 After induction (incl failed induction)	1627	8.2	19.8	91.3
	3 No labour (e.g elective)	711	3.6	8.7	100.0
	4 In other way	1	.0	.0	100.0
	Total	8212	41.5	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	157	.8		
	Total	11575	58.5		
Total		19787	100.0		

(a) Method of induction

The data abstractor was asked to record all methods used

DEL_P1161 C4ia: Labour induced by prostaglandin gel (vaginal)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	90	.5	1.1	1.1
	2 No	8279	41.8	98.9	100.0
	Total	8369	42.3	100.0	
	Missing	11418	57.7		
Total		19787	100.0		

DEL_P1162 C4ib: Labour induced by prostaglandin pessaries

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1209	6.1	14.4	14.4
	2 No	7160	36.2	85.6	100.0
	Total	8369	42.3	100.0	
	Missing	11418	57.7		
Total		19787	100.0		

DEL_P1163 C4ic: Labour induced by extra-amniotic prostaglandins

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4	.0	.0	.0
	2 No	8365	42.3	100.0	100.0
	Total	8369	42.3	100.0	
	Missing	11418	57.7		
Total		19787	100.0		

DEL_P1164 C4iid: Labour induced by oral prostaglandins

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1165 C4iie: Labour induced by artificial rupture of membranes (ARM)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	496	2.5	5.9	5.9
	2 No	7873	39.8	94.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1166 C4iif: Labour induced by syntocinon infusion

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	409	2.1	4.9	4.9
	2 No	7960	40.2	95.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Other – The ‘other’ methods were documented and keyed, but not yet coded.

DEL_P1167 C4iig: Labour induced by other means

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	134	.7	1.6	1.6
	2 No	8235	41.6	98.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

[NB P1167 includes ‘failed induction’]

- (b) Reasons for induction. (These are currently given as text and not yet coded).

Augmentation of labour

The DA's instructions here were: "augmentation includes any intervention which affects the course of labour; even if not specifically for augmentation, e.g. ARM for application of FSE. Do not include "mobilisation to toilet".

Southmead records frequently do not state reasons for augmentation.

Do not include stretch and sweep of membranes here. This should be put in C13s or hospital admission depending when done".

DEL_P1180 C4iiia: Was labour augmented

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4813	24.3	65.5	65.5
	2 No	2536	12.8	34.5	100.0
	Total	7349	37.1	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	-1 Not Answered	209	1.1		
Total		12438	62.9		
Total		19787	100.0		

Method of augmentation

The data abstractor was asked to record all methods used

DEL_P1181 C4iiib: Labour augmented by artificial rupture of membranes (ARM)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3286	16.6	43.5	43.5
	2 No	4272	21.6	56.5	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

DEL_P1182 C4iiic: Labour augmented by mobilisation of mother

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1925	9.7	25.5	25.5
	2 No	5633	28.5	74.5	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

Syntocinon: If used for induction and continued throughout labour, it is not coded as augmentation. However if the syntocinon was stopped and then started again, it was also coded as augmentation.

DEL_P1183 C4iid: Labour augmented by syntocinon infusion

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1817	9.2	24.0	24.0
	2 No	5741	29.0	76.0	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

'Other method'

The methods were recorded as text.

DEL_P1184 C4iiie: Labour augmented by other method

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	17	.1	.2	.2
	2 No	7541	38.1	99.8	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

Reason for augmentation

(This is given as text but not yet coded)

Length of labour

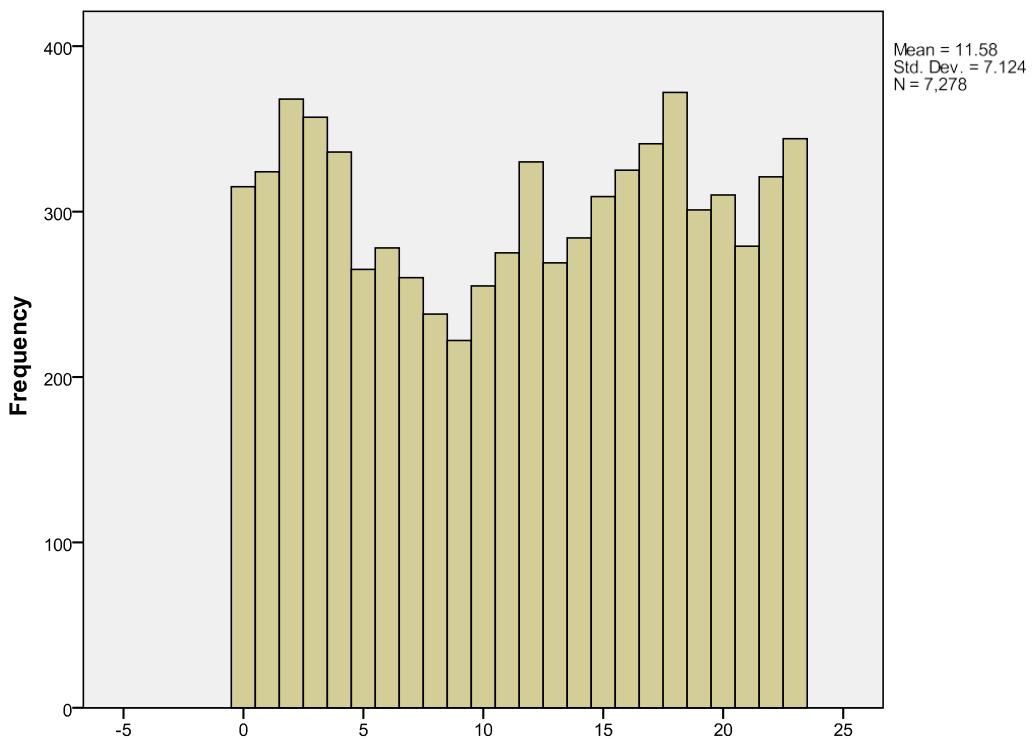
(a) Hour at which labour started

The time of onset of regular contractions.

DEL_P1190 C1chr: Onset of 1st stage: hour

began (24 hr clock)

N	Valid	7278
	Missing	12509
Mean		11.58
Median		12.00
Std. Deviation		7.124
Range		23
Minimum		0
Maximum		23



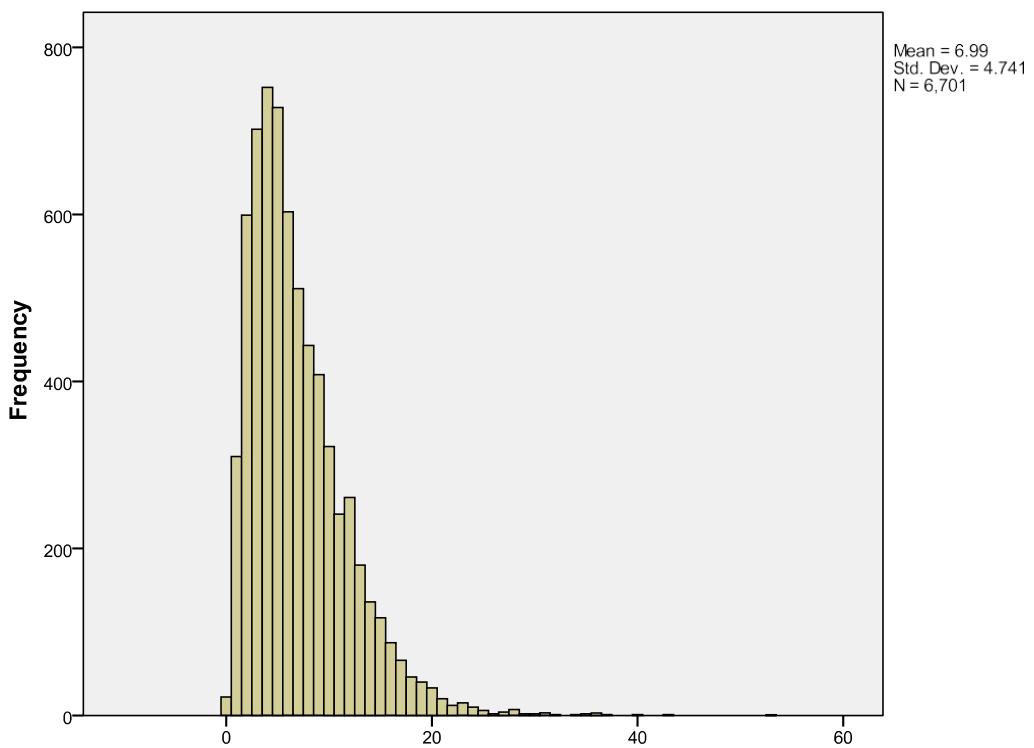
(b) Length of 1st stage (hours)

(This was calculated from the time of onset of 1st stage and time of delivery)

DEL_P1191 DV: Length of 1st stage in

completed (hours)

N	Valid	6701
	Missing	13086
Mean		6.99
Median		6.00
Std. Deviation		4.741
Range		53
Minimum		0
Maximum		53

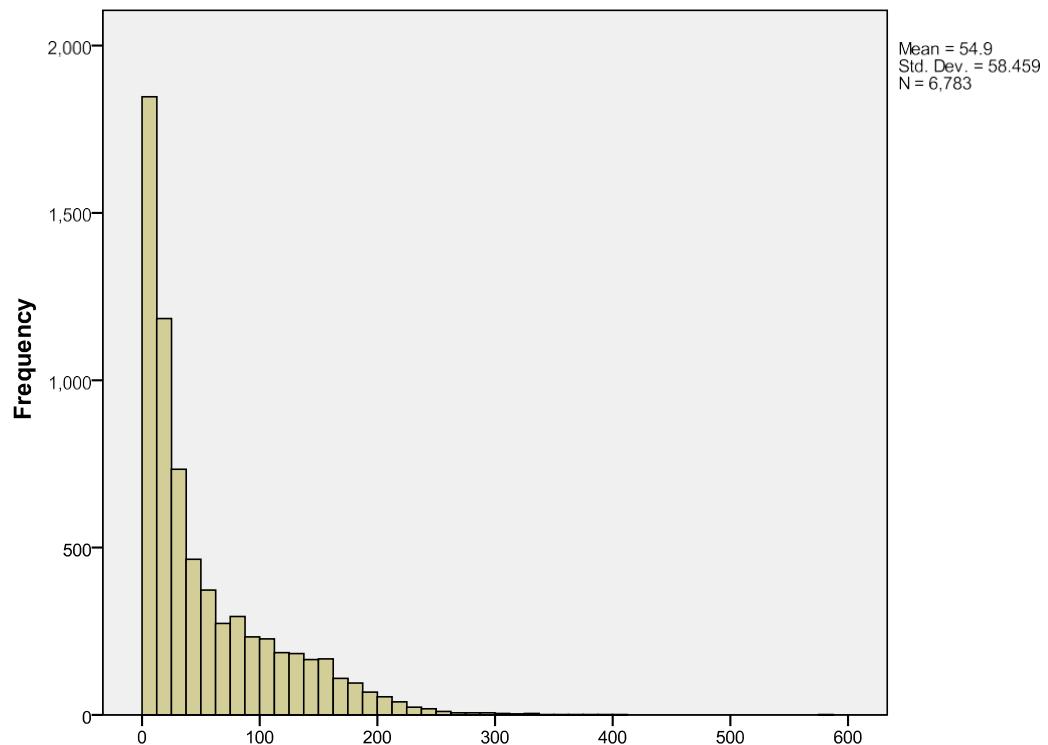


(c) Length of 2nd stage (minutes)

(Calculated from time of onset of 2nd stage (i.e. from full dilation) and time of delivery)

DEL_P1192 DV: Length of 2nd stage (minutes)

N	Valid	6783
	Missing	13004
Mean		54.90
Median		30.00
Std. Deviation		58.459
Range		585
Minimum		0
Maximum		585



Presentation at onset of labour and at delivery

P1200 indicates the presentation at the onset of labour or at CS; for P1201 which also relates to presentation, the instructions to the DAs were, if Keiland forceps were used the code 4 should be used.

DEL_P1200 C5a: Presentation at onset of labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Vertex	7614	38.5	93.6	93.6
	2 Breech	426	2.2	5.2	98.8
	3 Other	98	.5	1.2	100.0
	Total	8138	41.1	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	206	1.0		
	-1 Not Answered	25	.1		
	Total	11649	58.9		
Total		19787	100.0		

DEL_P1201 C5b: Presentation at delivery or at caesarean

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Vertex OA	6603	33.4	81.0	81.0
	2 Vertex OP	342	1.7	4.2	85.2
	3 Breech	344	1.7	4.2	89.4
	4 Other	860	4.3	10.6	100.0
Missing	Total	8149	41.2	100.0	
	-10 Not completed	11418	57.7		
	-1 Not Answered	220	1.1		
	Total	11638	58.8		
Total		19787	100.0		

Method of delivery

The instructions for P1210 was that if a failed, in combination with a successful, method of delivery, code 6 should be used.

DEL_P1210 C6a: Method of delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Spontaneous	5025	25.4	61.1	61.1
	1 Assisted breech	156	.8	1.9	63.0
	2 Breech, extraction	6	.0	.1	63.1
	3 Caesarean section	1444	7.3	17.6	80.6
	4 Forceps	713	3.6	8.7	89.3
	5 Vacuum extraction	714	3.6	8.7	98.0
	6 Other	164	.8	2.0	100.0
	Total	8222	41.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	147	.7		
	Total	11565	58.4		
Total		19787	100.0		

Type of forceps: (Andersons = Neville Barnes Forceps)

DEL_P1211 C6b: Type of forceps used

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Wrigley's	250	1.3	3.1	3.1
	2 Rhodes	443	2.2	5.4	8.5
	3 Neville Barnes	166	.8	2.0	10.5
	4 Keilland's	203	1.0	2.5	13.0
	5 Other	72	.4	.9	13.8
	7 Not delivered by forceps	7060	35.7	86.2	100.0
	Total	8194	41.4	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	29	.1		
	-1 Not Answered	146	.7		
	Total	11593	58.6		
Total		19787	100.0		

Type of CS

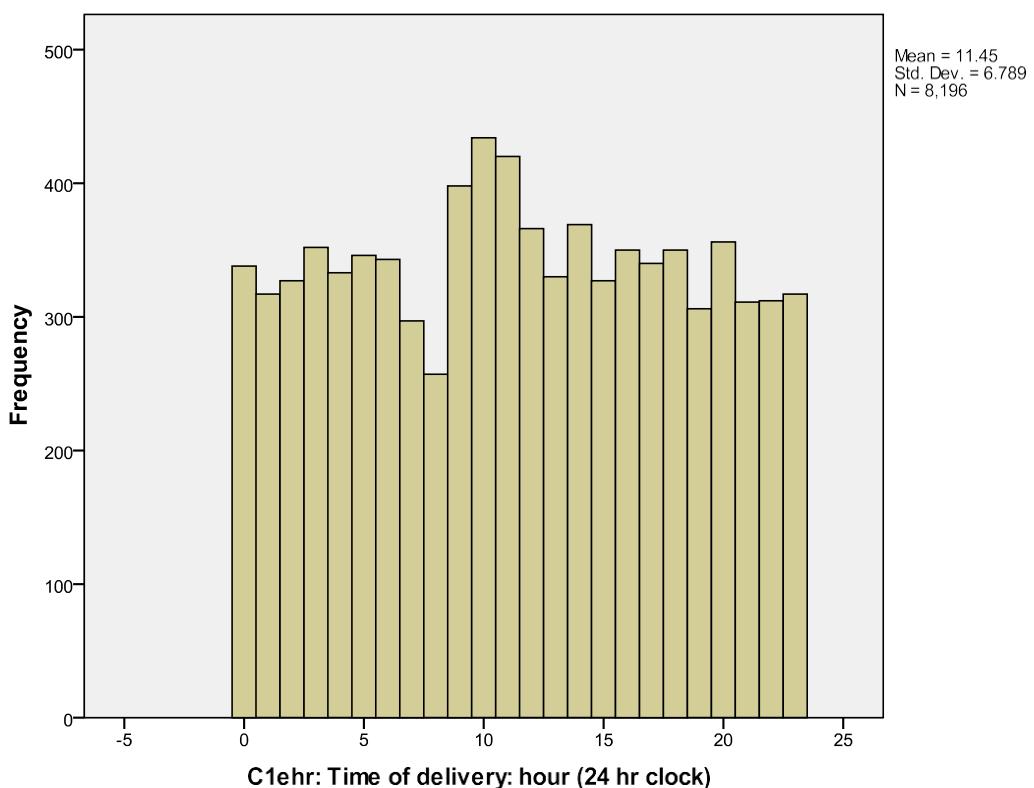
The instructions for classification of CS were as follows: Elective CS must have been pre-planned during the antenatal period; if elective is booked but woman goes into labour and has CS, code as emergency.

DEL_P1212 C6c: Delivery by caesarean section

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes elective	519	2.6	6.3	6.3
	2 Yes emergency	935	4.7	11.4	17.7
	3 No	6772	34.2	82.3	100.0
	Total	8226	41.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	143	.7		
	Total	11561	58.4		
Total		19787	100.0		

Reason for CS

Keyed as text; not yet coded.



II.8 Medications or analgesics to mother in labour or at CS

Anaesthetics used

(a) General anaesthetic

DEL_P1220 C7ig: General anaesthetic used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	651	3.3	7.8	7.8
	2 No	7718	39.0	92.2	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

(b) Epidural

Instructions to DAs were that if Bupivacaine (Marcaine) was administered via the epidural there was no need to document this, although other drugs used were to be documented.

DEL_P1221 C7ii: Lumbar epidural used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2558	12.9	30.6	30.6
	2 No	5811	29.4	69.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1222 C7ib: Caudal epidural used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2	.0	.0	.0
	2 No	8367	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1223 C7id: Epidural n.o.s used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	36	.2	.4	.4
	2 No	8333	42.1	99.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

(c) Other delivery of anaesthetic

DEL_P1224 C7ij: Perineal infiltration used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1079	5.5	12.9	12.9
	2 No	7290	36.8	87.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1225 C7im: Pudendal block used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	254	1.3	3.0	3.0
	2 No	8115	41.0	97.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1226 C7in: Spinal anaesthetic used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	435	2.2	5.2	5.2
	2 No	7934	40.1	94.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Analgesics used(a) Gas and air

DEL_P1227 C7if: Gas and air used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5623	28.4	67.2	67.2
	2 No	2746	13.9	32.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

(b) Opiates:Diamorphine

DEL_P1228 C7ic: Diamorphine used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	186	.9	2.2	2.2
	2 No	8183	41.4	97.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Pethidine

DEL_P1229 C7ik: Pethidine used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2430	12.3	29.0	29.0
	2 No	5939	30.0	71.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Pethilorfan

DEL_P1230 C7il: Pethilorfan used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4	.0	.0	.0
	2 No	8365	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

(c) Other analgesic drugs: Fentanyl

DEL_P1231 C7ie: Fentanyl used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	412	2.1	4.9	4.9
	2 No	7957	40.2	95.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Physical assistance

(a) Birthing pool

DEL_P1232 C7ia: Birthing pool used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	119	.6	1.4	1.4
	2 No	8250	41.7	98.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

(b) Hot bath or hydrotherapy

DEL_P1233 C7ih: Hot bath used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	968	4.9	11.6	11.6
	2 No	7401	37.4	88.4	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

(c) TENS

DEL_P1234 C7io: T.E.N.S used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	521	2.6	6.2	6.2
	2 No	7848	39.7	93.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

***Other analgesics/anaesthetics given* (described in text, not yet coded)**

DEL_P1235 C7ip: Other used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1015	5.1	12.1	12.1
	2 No	7354	37.2	87.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

No pain relief in labour

DEL_P1236 C7iq Nothing used during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 None of the above	428	2.2	5.2	5.2
	2 Analgesia /anaesthesia given	7769	39.3	94.8	100.0
	Total	8197	41.4	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	172	.9		
	Total	11590	58.6		
Total		19787	100.0		

Medications in labour or at CS other than those used for induction, anaesthesia, analgesia or augmentation

Antibiotics

DEL_P1240 C7iia: Antibiotics given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	128	.6	1.5	1.5
	2 No	8241	41.6	98.5	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Benzodiazepams

DEL_P1241 C7iic: Diazepam (valium) given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5	.0	.1	.1
	2 No	8364	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

DEL_P1242 C7iif: Nitrazepam given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1243 C7ip: Temazepam given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	84	.4	1.0	1.0
	2 No	8285	41.9	99.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Anticonvulsants

DEL_P1244 C7iii: Phenobarbitone given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	8	.0	.1	.1
	2 No	8361	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1245 C7ij: Phenytoin given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	32	.2	.4	.4
	2 No	8337	42.1	99.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Antihistamines

DEL_P1246 C7iih: Phenergan given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1685	8.5	20.1	20.1
	2 No	6684	33.8	79.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Ranitidine is an antihistamine. If given as pre-medication on morning of CS, it was coded here; otherwise it was documented elsewhere (B7c)

DEL_P1247 C7iik: Ranitidine given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1245	6.3	14.9	14.9
	2 No	7124	36.0	85.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Other medication

Dexamethasone – Dexamethasone is a steroid given to women at risk of preterm delivery in order to promote maturation of the fetal lungs.

DEL_P1248 C7iib: Dexamethasone given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5	.0	.1	.1
	2 No	8364	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Dichloralphenazone – Dichloralphenazone is a 1:2 mixture of antipyrine with chloral hydrate and used for treatment of headache.

DEL_P1249 C7iid: Dichloralphenazone given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Ephedrine – Ephedrine is a vasoconstrictor used for the treatment of hypotension after epidural and spinal anaesthesia.

DEL_P1250 C7iie: Ephedrine given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	412	2.1	4.9	4.9
	2 No	7957	40.2	95.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Ritodrine – Ritodrine (Yutopar or Terbutaline) is used as a tocolytic medicine to slow uterine contractions during preterm labour. It is a beta-2 adrenergic receptor agonist.

DEL_P1251 C7ill: Ritodrine given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	27	.1	.3	.3
	2 No	8342	42.2	99.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Salbutamol – Salbutamol is a short acting β_2 -adrenergic receptor agonist for the relief of bronchospasm (e.g. in asthma)

DEL_P1252 C7iim: Salbutamol given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7	.0	.1	.1
	2 No	8362	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Sodium citrate

DEL_P1253 C7iin: Sodium citrate given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1038	5.2	12.4	12.4
	2 No	7331	37.0	87.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Stemetil – Stemetil (prochlorperazine) is an antiemetic, used for nausea and vomiting. It is a phenothiazine antipsychotic.

DEL_P1254 C7iio: Stemetil given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	366	1.8	4.4	4.4
	2 No	8003	40.4	95.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Oxygen

DEL_P1255 C7iig: Oxygen given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1713	8.7	20.5	20.5
	2 No	6656	33.6	79.5	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Other – (These drugs were keyed as text but are not yet coded)

DEL_P1256 C7iiq: Other drug given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	782	4.0	9.3	9.3
	2 No	7587	38.3	90.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

No medication given

DEL_P1257 C7iir: No 'other' drugs given during 1st or 2nd stages or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No drugs given	3875	19.6	47.5	47.5
	2 Drugs given	4284	21.7	52.5	100.0
	Total	8159	41.2	100.0	
Missing	-10 Not completed	11418	57.7		
	9 Not known	210	1.1		
	Total	11628	58.8		
Total		19787	100.0		

II.9 Maternal complications during labour/at CS

Signs of hypertensive disorder

Blood pressure

Measured in labour or at the time of CS

DEL_P1260 C9a: Mother's BP taken

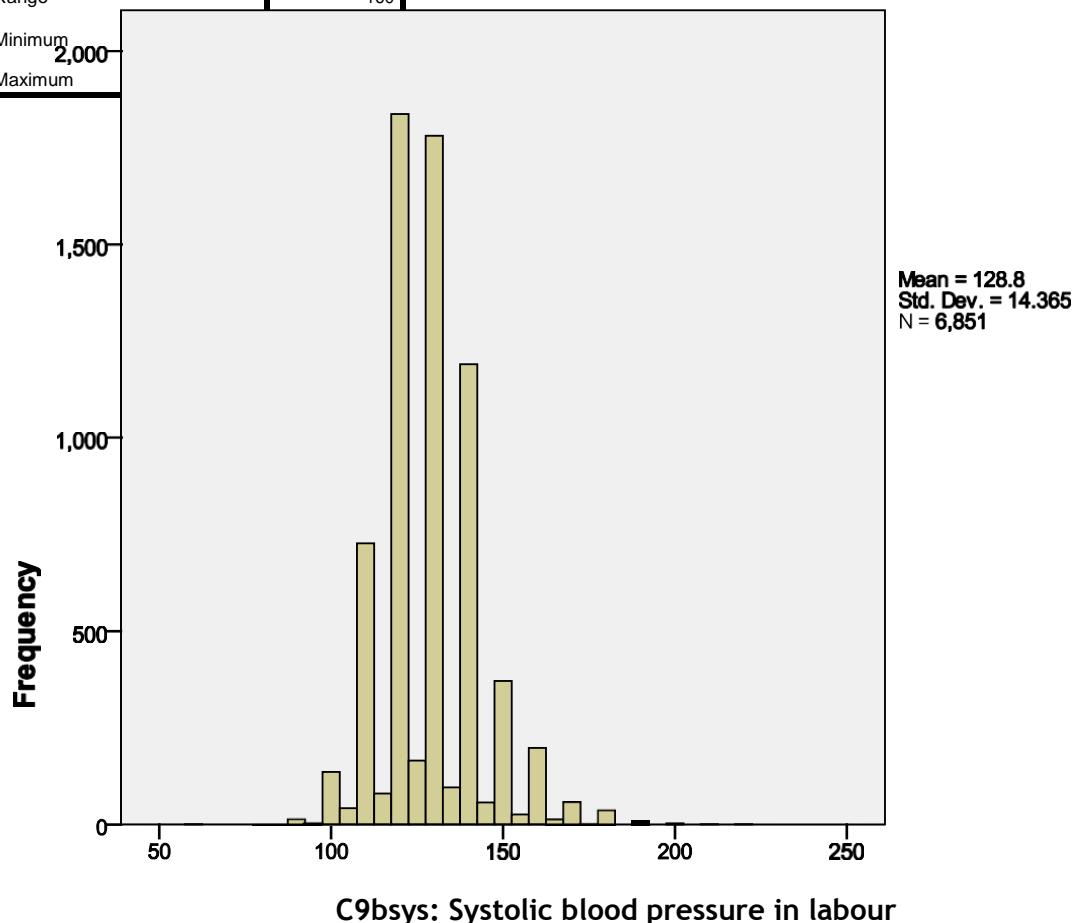
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	6861	34.7	84.2	84.2
	2 No	474	2.4	5.8	90.0
	3 Caesarean sect no labour	811	4.1	10.0	100.0
	Total	8146	41.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	223	1.1		
	Total	11641	58.8		
Total		19787	100.0		

DEL_P1261 C9bsys: systolic blood pressure in

labour

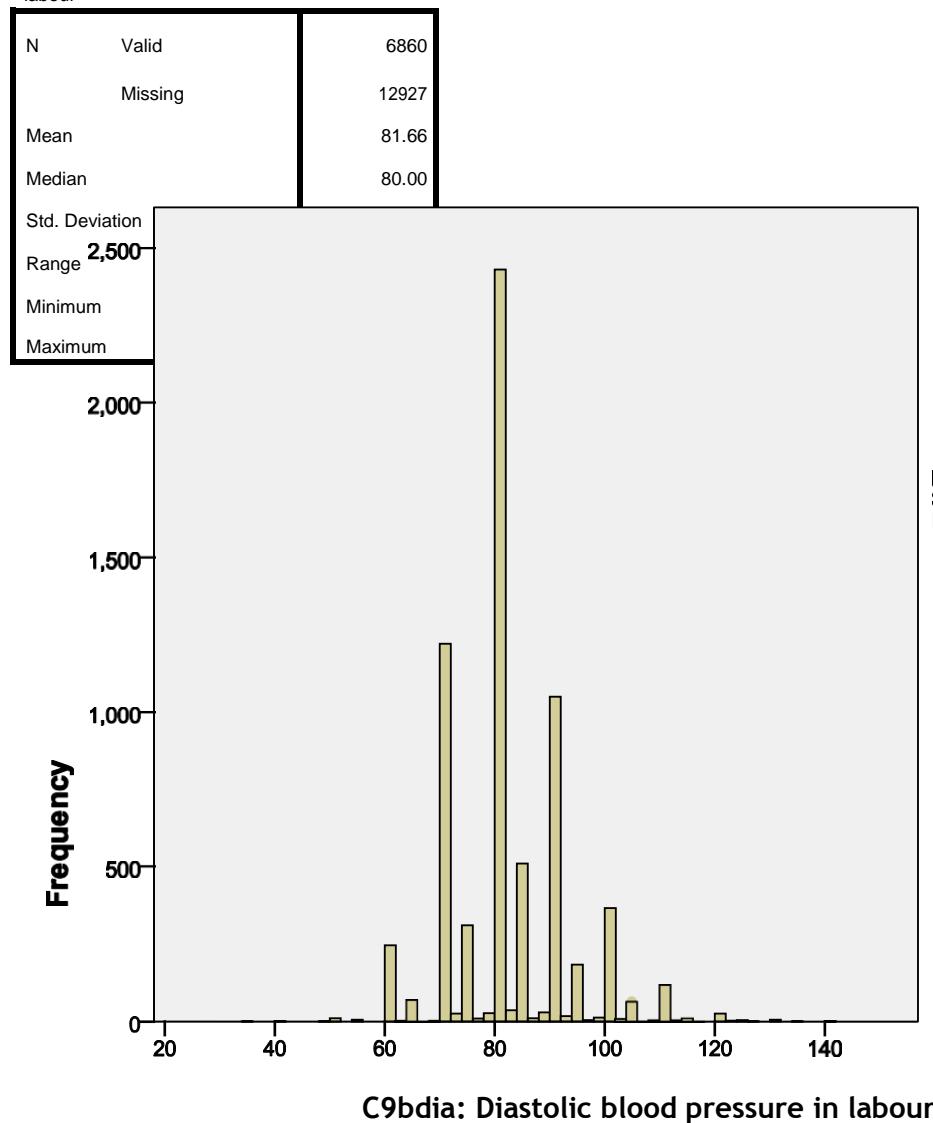
N	Valid	6851
	Missing	12936
Mean		128.80
Median		130.00
Std. Deviation		14.365
Range		160

Minimum
2,000
Maximum



DEL_P1262 C9bdia: Diastolic blood pressure in

labour



Proteinuria

DEL_P1263 C10a: Mother's urine tested for protein in labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3944	19.9	53.8	53.8
	2 No	3381	17.1	46.2	100.0
	Total	7325	37.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	-2 No labour	811	4.1		
	-1 Not Answered	232	1.2		
	Total	12462	63.0		
	Total	19787	100.0		

DEL_P1264 C10b: Result of protein test on mother's urine

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Nil	2828	14.3	72.0	72.0
	1 Trace	422	2.1	10.7	82.7
	2 +	497	2.5	12.6	95.3
	3 ++	129	.7	3.3	98.6
	4 +++	37	.2	.9	99.6
	5 More than +++	17	.1	.4	100.0
Missing	Total	3930	19.9	100.0	
	-10 Not completed	11418	57.7		
	-1 Not Answered	4439	22.4		
	Total	15857	80.1		
Total		19787	100.0		

Eclampsia

DEL_P1265 C13f: Eclamptic convulsions noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Oedema

DEL_P1266 C12a: Any oedema present in labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	376	1.9	6.6	6.6
	2 No	5281	26.7	93.4	100.0
	Total	5657	28.6	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	-2 No labour	811	4.1		
	-1 Not Answered	1900	9.6		
	Total	14130	71.4		
	Total	19787	100.0		

DEL_P1267 C12b: Sites of oedema in labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Generalised	14	.1	3.8	3.8
	2 Ankles only	78	.4	21.0	24.8
	3 Hands only	55	.3	14.8	39.6
	5 Other only	65	.3	17.5	57.1
	6 More than 1 site	159	.8	42.9	100.0
	Total	371	1.9	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	7998	40.4		
	Total	19416	98.1		
Total		19787	100.0		

Other conditions in labour or at CS

Maternal haemorrhage

DEL_P1268 C8: Mother haemorrhaged prior to delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes placenta praevia	8	.0	.1	.1
	2 No haemorrhage	7150	36.1	87.5	87.5
	3 Yes APH unspecified	51	.3	.6	88.2
	4 Yes abruption	18	.1	.2	88.4
	5 No labour	688	3.5	8.4	96.8
	6 Other	261	1.3	3.2	100.0
	Total	8176	41.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	193	1.0		
	Total	11611	58.7		
Total		19787	100.0		

Pyrexia

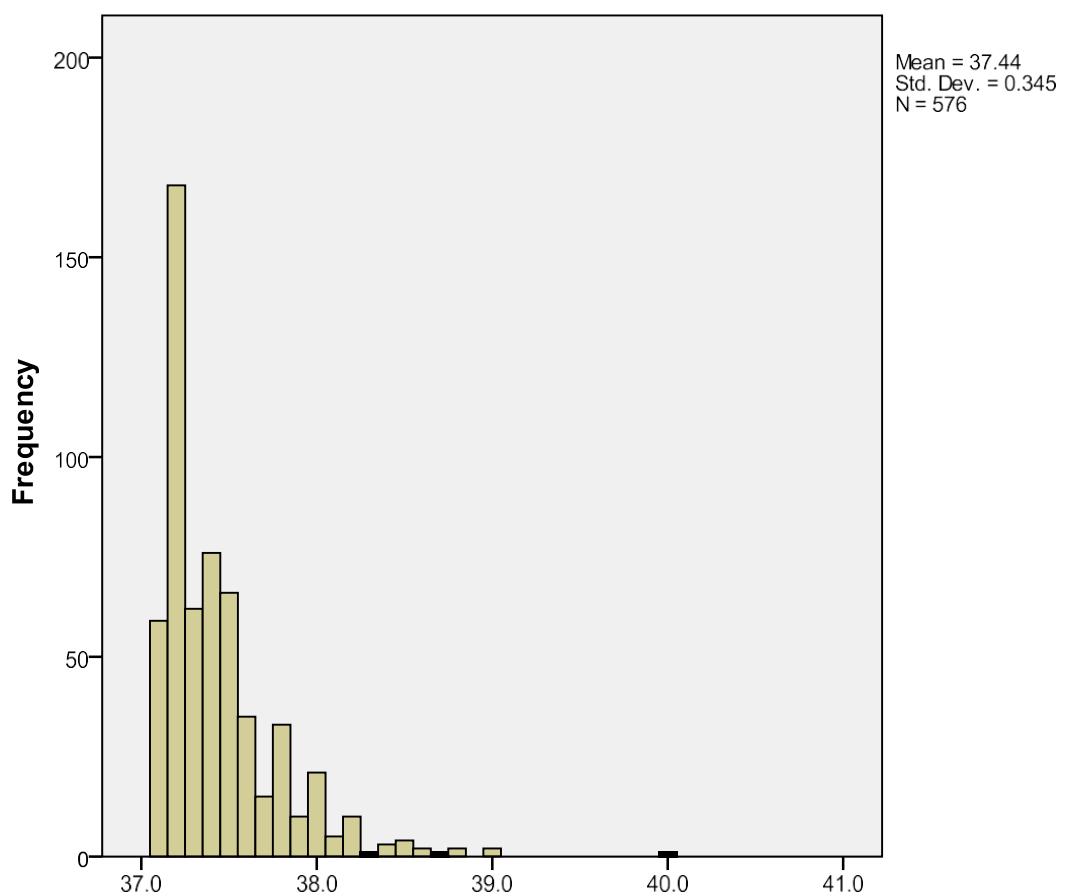
DEL_P1269 C13p: Pyrexia noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	578	2.9	6.9	6.9
	2 No	7791	39.4	93.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1270 C13ptemp: Temperature when

pyrexia occurred

N	Valid	576
	Missing	19211
Mean		37.441
Median		37.300
Std. Deviation		.3447
Range		2.9
Minimum		37.1
Maximum		40.0



Maternal distress

DEL_P1271 C13e: Distress noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1076	5.4	12.9	12.9
	2 No	7293	36.9	87.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Ketonuria

DEL_P1272 C11a: Mother's urine tested for ketones in labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3929	19.9	53.6	53.6
	2 No	3397	17.2	46.4	100.0
	Total	7326	37.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	-1 Not Answered	232	1.2		
	Total	12461	63.0		
Total		19787	100.0		

DEL_P1273 C11b: Result of ketone test on mother's urine

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 Nil	2791	14.1	71.4	71.4
	1 Trace	162	.8	4.1	75.5
	2 + (small)	362	1.8	9.3	84.8
	3 ++ (moderate)	397	2.0	10.2	94.9
	4 +++ (large)	198	1.0	5.1	100.0
	Total	3910	19.8	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	4459	22.5		
	Total	15877	80.2		
Total		19787	100.0		

Diagnosis of length and progress of labour

Precipitate labour

The following categories were only recorded here if they were specifically stated as such in the notes

DEL_P1274 C13m: Precipitate labour noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	31	.2	.4	.4
	2 No	8338	42.1	99.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Prolonged 1st stage

DEL_P1275 C13n: Prolonged 1st stage noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	8	.0	.1	.1
	2 No	8361	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Prolonged 2nd stage

DEL_P1276 C13o: Prolonged 2nd stage noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	182	.9	2.2	2.2
	2 No	8187	41.4	97.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Failure to progress

DEL_P1277 C13g: Failure to progress noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	819	4.1	9.8	9.8
	2 No	7550	38.2	90.2	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Obstructed labour

DEL_P1278 C13k: Obstructed labour noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	21	.1	.3	.3
	2 No	8348	42.2	99.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Cord complications

Cord around neck

DEL_P1290 C13c: Cord around neck noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1933	9.8	23.1	23.1
	2 No	6435	32.5	76.9	100.0
	Total	8368	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	Total	11419	57.7		
Total		19787	100.0		

Cord prolapse

DEL_P1291 C13d: Cord prolapse noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	24	.1	.3	.3
	2 No	8345	42.2	99.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Meconium in liquor

DEL_P1292 C13h: Fresh meconium in liquor noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	279	1.4	3.3	3.3
	2 No	8090	40.9	96.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1293 C13l: Old meconium in liquor noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	111	.6	1.3	1.3
	2 No	8258	41.7	98.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

DEL_P1294 C13j: Meconium N.E.C noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1063	5.4	12.7	12.7
	2 No	7306	36.9	87.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Maternal position

Left lateral

DEL_P1300 C13i: Left lateral position noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2287	11.6	27.3	27.3
	2 No	6082	30.7	72.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Right lateral

DEL_P1301 C13q: Right lateral position noted in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	727	3.7	8.7	8.7
	2 No	7642	38.6	91.3	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Water birth

DEL_P1302 C13r: Water birth

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	31	.2	.4	.4
	2 No	8338	42.1	99.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Procedures to mother in labour

Blood transfusion

DEL_P1310 C13a: Blood transfusion noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	11	.1	.1	.1
	2 No	8358	42.2	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Catheterisation

DEL_P1311 C13b: Catheterization noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3116	15.7	37.2	37.2
	2 No	5252	26.5	62.8	100.0
	Total	8368	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	Total	11419	57.7		
Total		19787	100.0		

Other complications

These were recorded as text.

DEL_P1312 C13s: Other complications noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5525	27.9	66.0	66.0
	2 No	2844	14.4	34.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

No complications

DEL_P1313 C13t: Nothing noted as occurring in labour or at CS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 None occurred	1147	5.8	14.0	14.0
	2 complications occurred	7028	35.5	86.0	100.0
	Total	8175	41.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	192	1.0		
	-7 Unresolved	2	.0		
	Total	11612	58.7		
	Total	19787	100.0		

Fetal heart rate monitoring

CTG monitoring

DEL_P1320 C14ia: Intermittent CTG monitoring noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4022	20.3	95.4	95.4
	2 No labour	2	.0	.0	95.5
	3 No monitoring noted	190	1.0	4.5	100.0
	Total	4214	21.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	-1 Not Answered	3344	16.9		
	Total	15573	78.7		
	Total	19787	100.0		

DEL_P1321 C14ib: Continuous CTG monitoring noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4703	23.8	62.2	62.2
	2 No	2855	14.4	37.8	
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

FSE monitoring

DEL_P1322 C14ic: FSE monitoring noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1511	7.6	20.0	20.0
	2 No	6046	30.6	80.0	
	Total	7557	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	-2 No labour	811	4.1		
Total		12230	61.8		
Total		19787	100.0		

Auscultation

DEL_P1323 C14id: Auscultation monitoring noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1368	6.9	18.1	18.1
	2 No	6190	31.3	81.9	
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

Sonicaid monitoring

DEL_P1324 C14ie: Sonicaid monitoring noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	320	1.6	4.2	4.2
	2 No	7238	36.6	95.8	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

Other types of monitoring

DEL_P1325 C14ig: Other monitoring noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	38	.2	.5	.5
	2 No	7520	38.0	99.5	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

Unknown type of monitoring

DEL_P1326 C14if: Fetal heart heard but not known what with

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2539	12.8	33.6	33.6
	2 No	5019	25.4	66.4	100.0
	Total	7558	38.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No labour	811	4.1		
	Total	12229	61.8		
Total		19787	100.0		

Fetal heart rate abnormalities

DEL_P1330 C15a1: Abnormalities noted in fetal heart rate in labour

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4601	23.3	64.0	64.0
	2 No	2586	13.1	36.0	100.0
	Total	7187	36.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-9 No indication in notes	62	.3		
	-1 Not Answered	174	.9		
	7 Not applicable	946	4.8		
	Total	12600	63.7		
Total		19787	100.0		

Tachycardia

DEL_P1331 c15a2b1: First stage: Baseline tachycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	351	1.8	4.2	4.2
	2 No	8015	40.5	95.8	100.0
	Total	8366	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	Total	11421	57.7		
	Total	19787	100.0		

DEL_P1332 c15a2b2: Second Stage: Baseline tachycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	239	1.2	2.9	2.9
	2 No	8127	41.1	97.1	100.0
	Total	8366	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	Total	11421	57.7		
	Total	19787	100.0		

DEL_P1333 c15a2bnc: Not clear when: Baseline tachycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1334 DV: c15a2b: Baseline tachycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	419	2.1	5.0	5.0
	2.00 No	7950	40.2	95.0	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

DEL_P1335 c15a2a1: First stage: Tachycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	371	1.9	4.4	4.4
	2 No	7997	40.4	95.6	100.0
	Total	8368	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	Total	11419	57.7		
Total		19787	100.0		

DEL_P1336 c15a2a2: Second stage: Tachycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	270	1.4	3.2	3.2
	2 No	8098	40.9	96.8	100.0
	Total	8368	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	Total	11419	57.7		
Total		19787	100.0		

DEL_P1337 c15a2anc: Not clear when: Tachycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2	.0	.0	.0
	2 No	8367	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1338 DV: c15a2a: Tachycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	574	2.9	6.9	6.9
	2.00 No	7795	39.4	93.1	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Bradycardia**DEL_P1339 c15a2d1: First stage: Baseline bradycardia noted**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	296	1.5	3.5	3.5
	2 No	8070	40.8	96.5	100.0
	Total	8366	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	Total	11421	57.7		
Total		19787	100.0		

DEL_P1340 c15a2d2: Second stage: Baseline bradycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	176	.9	2.1	2.1
	2 No	8190	41.4	97.9	100.0
	Total	8366	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	Total	11421	57.7		
Total		19787	100.0		

DEL_P1341 c15a2dnc: Not clear when: Baseline bradycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2	.0	.0	.0
	2 No	8367	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1342 DV: c15a2d: Baseline bradycardia noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	265	1.3	3.2	3.2
	2.00 No	8104	41.0	96.8	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

DEL_P1343 c15a2c1: First stage: Bradycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	830	4.2	9.9	9.9
	2 No	7537	38.1	90.1	100.0
	Total	8367	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	2	.0		
	Total	11420	57.7		
Total		19787	100.0		

DEL_P1344 c15a2c2: Second stage: Bradycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	841	4.3	10.1	10.1
	2 No	7526	38.0	89.9	100.0
	Total	8367	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	2	.0		
	Total	11420	57.7		
Total		19787	100.0		

DEL_P1345 c15a2cnc: Not clear when : Bradycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7	.0	.1	.1
	2 No	8362	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

DEL_P1346 DV: c15a2c: Bradycardia N.O.S noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1226	6.2	14.6	14.6
	2.00 No	7143	36.1	85.4	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
	Total	19787	100.0		

Type 1 dips**DEL_P1347 c15a2e1: First stage : Type 1 dips/early decels noted**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2130	10.8	25.5	25.5
	2 No	6230	31.5	74.5	100.0
	Total	8360	42.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	9	.0		
	Total	11427	57.8		
	Total	19787	100.0		

DEL_P1348 c15a2e2: Second stage: Type 1 dips/early decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1061	5.4	12.7	12.7
	2 No	7299	36.9	87.3	100.0
	Total	8360	42.2	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	9	.0		
	Total	11427	57.8		
	Total	19787	100.0		

DEL_P1349 c15a2enc: Not known when: Type 1 dips/early decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2	.0	.0	.0
	2 No	8367	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1350 DV: c15a2e: Type 1 dips/early decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1369	6.9	16.4	16.4
	2.00 No	7000	35.4	83.6	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Type 2 dips

DEL_P1351 c15a2f1: First stage: Type 2 dips/late decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	847	4.3	10.1	10.1
	2 No	7519	38.0	89.9	100.0
	Total	8366	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	Total	11421	57.7		
Total		19787	100.0		

DEL_P1352 c15a2f2: Second stage: Type 2 dips/late decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	810	4.1	9.7	9.7
	2 No	7556	38.2	90.3	100.0
	Total	8366	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	3	.0		
	Total	11421	57.7		
Total		19787	100.0		

DEL_P1353 c15a2fnc: Not clear when: Type 2 dips/late decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Loss of beat to beat variability

DEL_P1354 DV: c15a2f: Type 2 dips/late decels noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	207	1.0	2.5	2.5
	2.00 No	8162	41.2	97.5	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

DEL_P1355 c15a2g1: First stage: Loss of beat to beat variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	73	.4	.9	.9
	2 No	8296	41.9	99.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1356 c15a2g2: Second stage: Loss of beat to beat variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	12	.1	.1	.1
	2 No	8357	42.2	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1357 c15a2gnc: Not clear when: Loss of beat to beat variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	8369	42.3	100.0	100.0
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1358 DV: c15a2g: Loss of beat to beat variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	8	.0	.1	.1
	2.00 No	8361	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Reduced/poor variability

DEL_P1359 c15a2h1:First stage: Reduced or poor variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	623	3.1	7.4	7.4
	2 No	7742	39.1	92.6	100.0
	Total	8365	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	4	.0		
	Total	11422	57.7		
Total		19787	100.0		

DEL_P1360 c15a2h2:Second stage: Reduced or poor variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	93	.5	1.1	1.1
	2 No	8272	41.8	98.9	100.0
	Total	8365	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	4	.0		
	Total	11422	57.7		
Total		19787	100.0		

DEL_P1361 c15a2hnc: Not clear when: Reduced or poor variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	8369	42.3	100.0	100.0
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1362 DV: c15a2h: Reduced or poor variability noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	95	.5	1.1	1.1
	2.00 No	8274	41.8	98.9	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Variable decelerations

DEL_P1363 c15a2j1:First stage: Variable decelerations noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	777	3.9	9.3	9.3
	2 No	7590	38.4	90.7	100.0
	Total	8367	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	2	.0		
	Total	11420	57.7		
Total		19787	100.0		

DEL_P1364 c15a2j2:Second stage: Variable decelerations noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	570	2.9	6.8	6.8
	2 No	7797	39.4	93.2	100.0
	Total	8367	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	2	.0		
	Total	11420	57.7		
Total		19787	100.0		

DEL_P1365 c15a2jnc: Not clear when: Variable decelerations noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4	.0	.0	.0
	2 No	8365	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1366 DV: c15a2j: Variable decelerations noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	53	.3	.6	.6
	2.00 No	8316	42.0	99.4	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Decelerations with slow recovery**DEL_P1367 c15a2k1: First stage Decelerations with slow recovery noted**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	311	1.6	3.7	3.7
	2 No	8056	40.7	96.3	100.0
	Total	8367	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	2	.0		
	Total	11420	57.7		
Total		19787	100.0		

DEL_P1368 c15a2k2: Second stage: Decelerations with slow recovery noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	288	1.5	3.4	3.4
	2 No	8079	40.8	96.6	100.0
	Total	8367	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	2	.0		
	Total	11420	57.7		
Total		19787	100.0		

DEL_P1369 c15a2knc: Not clear when: Decelerations with slow recovery noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	8369	42.3	100.0	100.0
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1370 DV: c15a2k: Decelerations with slow recovery noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	22	.1	.3	.3
	2.00 No	8347	42.2	99.7	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Flat trace/sinusoidal pattern**DEL_P1371 c15a2i1:First stage: Flat trace/sinusoidal pattern noted**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	119	.6	1.4	1.4
	2 No	8250	41.7	98.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1372 c15a2i2: Second stage: Flat trace/sinusoidal pattern noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7	.0	.1	.1
	2 No	8362	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1373 c15a2inc: Not clear when: Flat trace/sinusoidal pattern noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	8369	42.3	100.0	100.0
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1374 DV: c15a2i: Flat trace/sinusoidal pattern noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	24	.1	.3	.3
	2.00 No	8345	42.2	99.7	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Other abnormality of fetal heart rate

DEL_P1375 c15a2I1: First stage: Other fetal heart rate noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1901	9.6	22.7	22.7
	2 No	6460	32.6	77.3	100.0
	Total	8361	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	8	.0		
	Total	11426	57.7		
Total		19787	100.0		

DEL_P1376 c15a2I2: Second stage: Other fetal heart rate noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1089	5.5	13.0	13.0
	2 No	7272	36.8	87.0	100.0
	Total	8361	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	8	.0		
	Total	11426	57.7		
Total		19787	100.0		

DEL_P1377 c15a2Iinc: Not clear when: Other fetal heart rate noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	11	.1	.1	.1
	2 No	8358	42.2	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1378 DV: c15a2I: Other fetal heart rate noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	332	1.7	4.0	4.0
	2.00 No	8037	40.6	96.0	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Fetal blood pH

DEL_P1390 C15b1: Were fetal blood samples taken

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	614	3.1	7.5	7.5
	2 No	7576	38.3	92.5	100.0
	Total	8190	41.4	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	179	.9		
	Total	11597	58.6		
Total		19787	100.0		

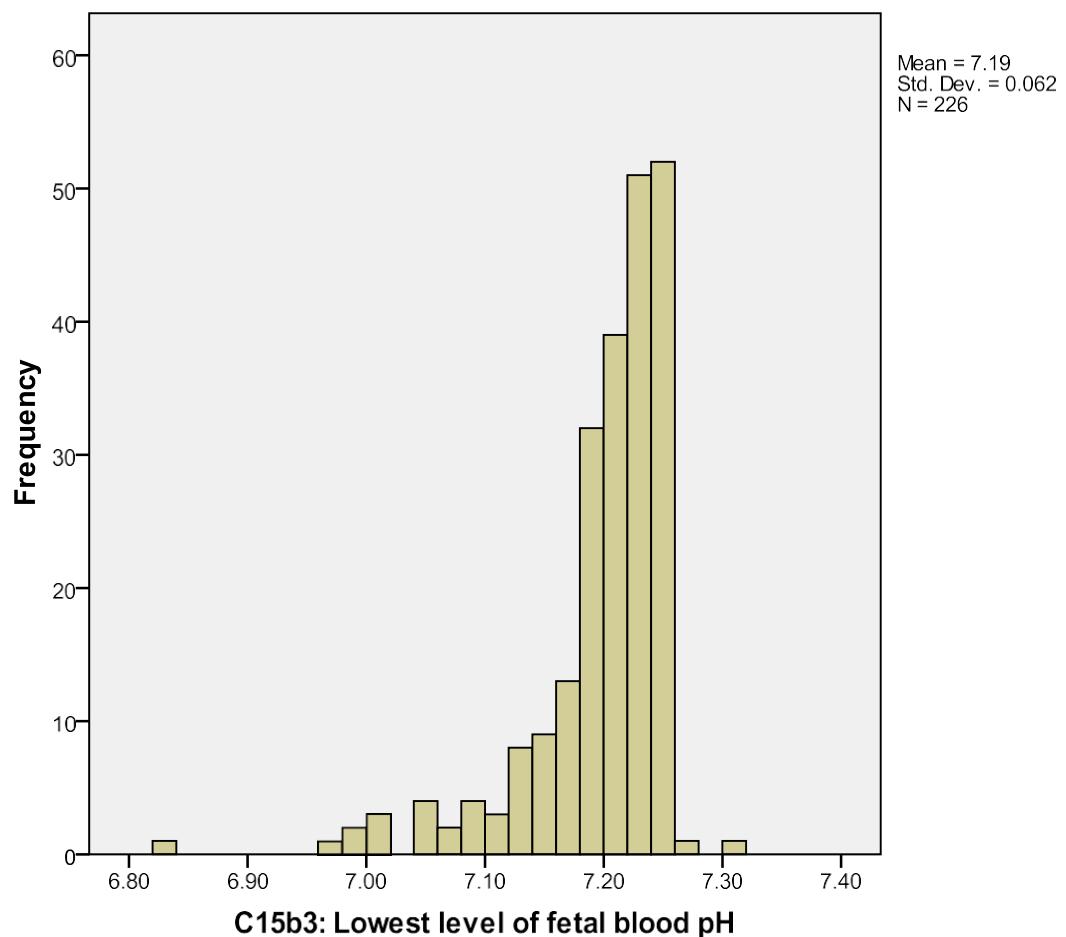
DEL_P1391 C15b2: Were there abnormalities in fetal blood pH

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	228	1.2	37.8	37.8
	2 No	375	1.9	62.2	100.0
	Total	603	3.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-2 No blood taken	7576	38.3		
	-1 Not Answered	190	1.0		
Total		19184	97.0		
Total		19787	100.0		

DEL_P1392 C15b3: Lowest level of fetal blood

pH

N	Valid	226
	Missing	19561
Mean		7.1941
Median		7.2100
Std. Deviation		.06163
Range		.47
Minimum		6.83
Maximum		7.30

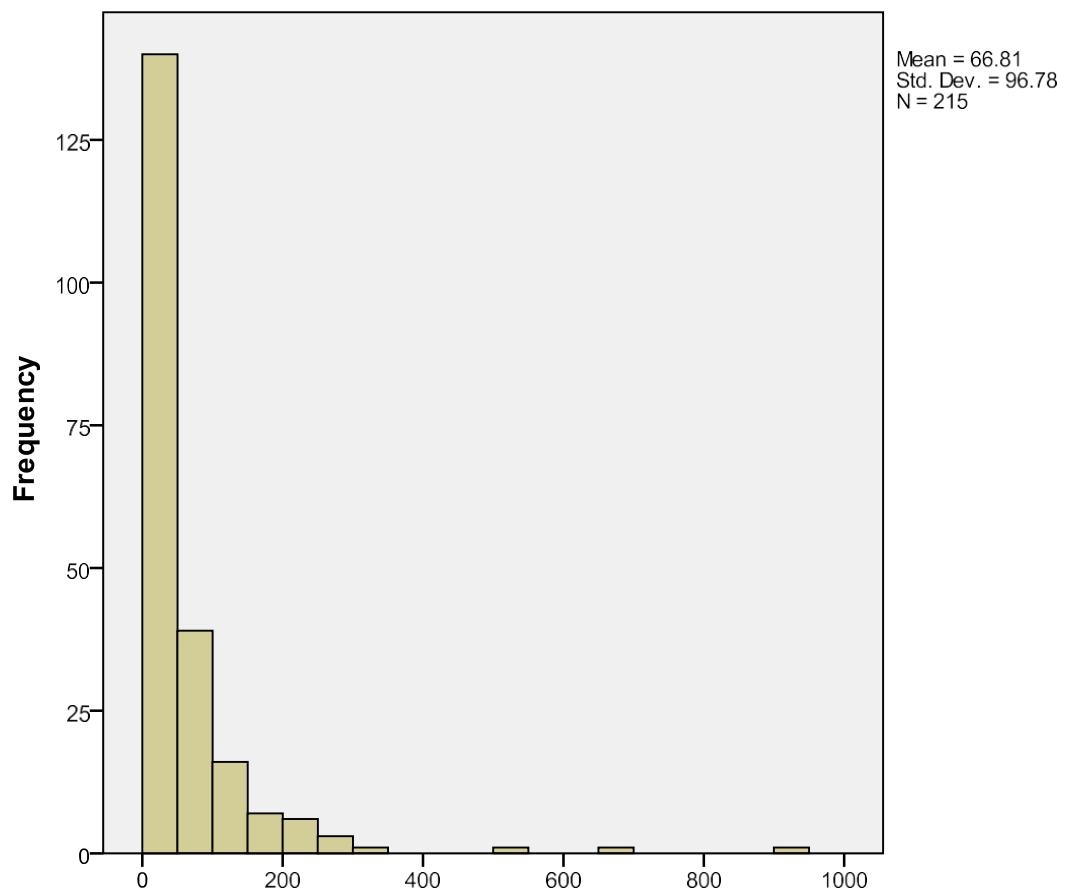


Statistics

DEL_P1393 Time from lowest pH to delivery

(Minutes)

N	Valid	215
	Missing	19572
Mean		66.81
Median		36.00
Std. Deviation		96.780
Range		939
Minimum		1
Maximum		940

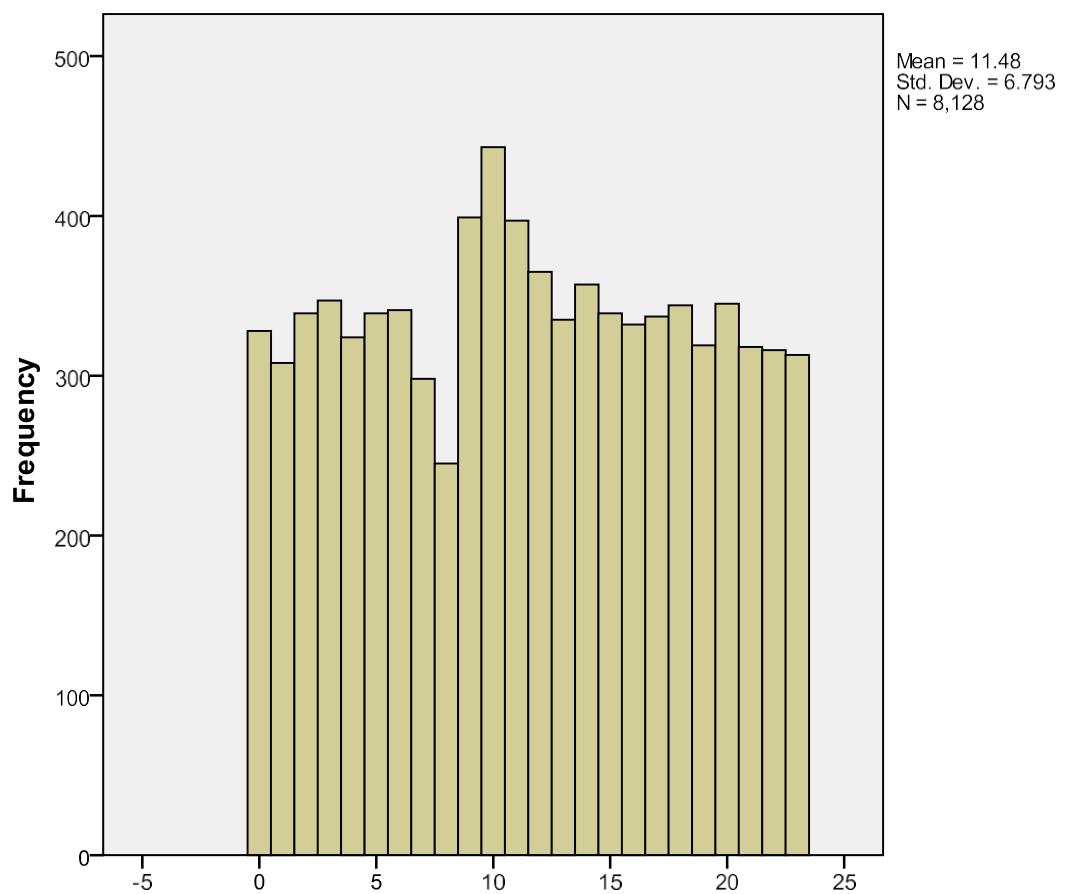


II.10 The mother post-delivery

3rd stage of labour

DEL_P1400 C1fhr: End of 3rd stage: hour

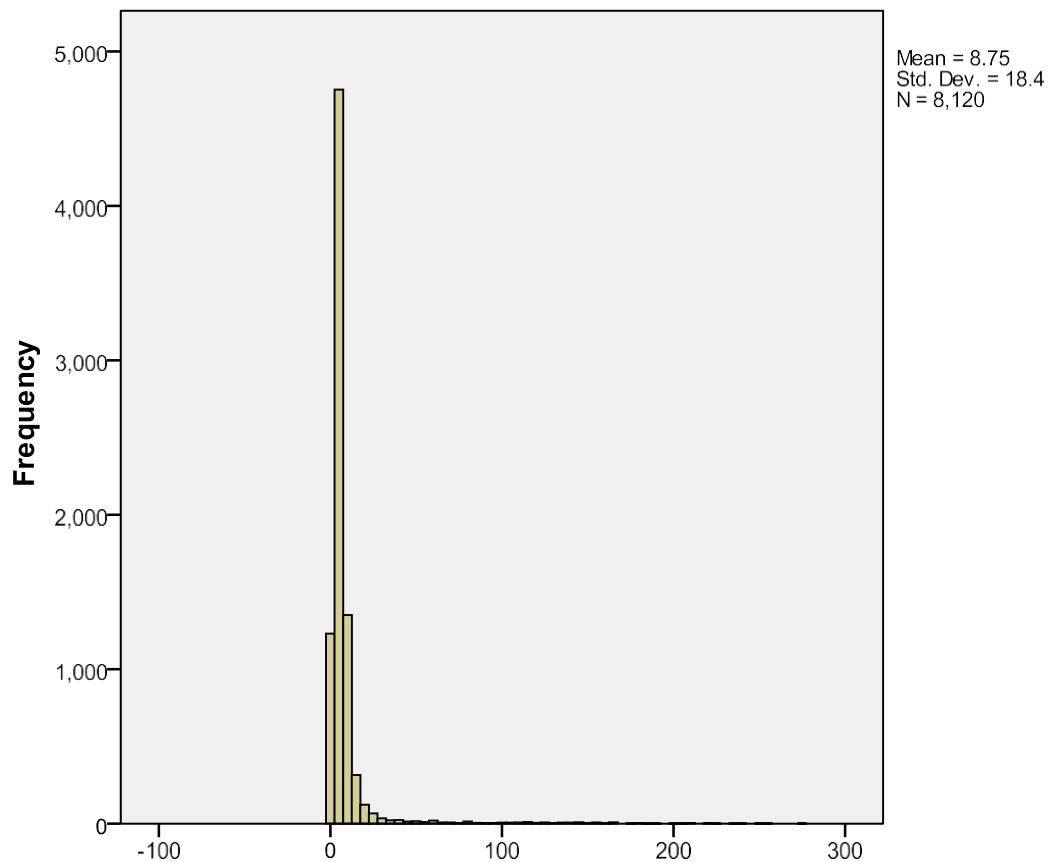
N	Valid	8128
	Missing	11659
Mean		11.48
Median		11.00
Std. Deviation		6.793
Range		23
Minimum		0
Maximum		23



DEL_P1401 DV: Length of 3rd stage (minutes)

(Derived from c1e & c1f dates)

N	Valid	8120
	Missing	11667
Mean		8.75
Median		5.00
Std. Deviation		18.400
Range		275
Minimum		0
Maximum		275



The perineum

DEL_P1410 C16a: Mother had episiotomy

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2197	11.1	26.8	26.8
	2 No	6000	30.3	73.2	100.0
	Total	8197	41.4	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	172	.9		
	Total	11590	58.6		
Total		19787	100.0		

DEL_P1411 C16b: Mother had perineal tear

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes N.O.S	7	.0	.1	.1
	2 No	3952	20.0	48.2	48.3
	3 1st degree	550	2.8	6.7	55.0
	4 2nd degree	1679	8.5	20.5	75.5
	5 3rd degree	112	.6	1.4	76.9
	6 Other	1895	9.6	23.1	100.0
	Total	8195	41.4	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	174	.9		
	Total	11592	58.6		
Total		19787	100.0		

DEL_P1412 DV: C16b2: Mother had a perineal tear

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	4243	21.4	51.8	51.8
	2.00 No	3952	20.0	48.2	100.0
	Total	8195	41.4	100.0	
Missing	-1.00	174	.9		
	System	11418	57.7		
	Total	11592	58.6		
Total		19787	100.0		

Blood disorders postpartum

Postpartum haemorrhage (PPH)

(a) whether had PPH

DAs were told to only count as PPH if blood loss was 500ml or more

DEL_P1420 D2a: Mother had postpartum haemorrhage

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1240	6.3	15.2	15.2
	2 No	6934	35.0	84.8	100.0
	Total	8174	41.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	195	1.0		
	Total	11613	58.7		
Total		19787	100.0		

(b) Type of PPH

The definitions used by the DAs were that Primary PPH is within 24 hours of delivery, and Secondary PPH is after 24 hours.

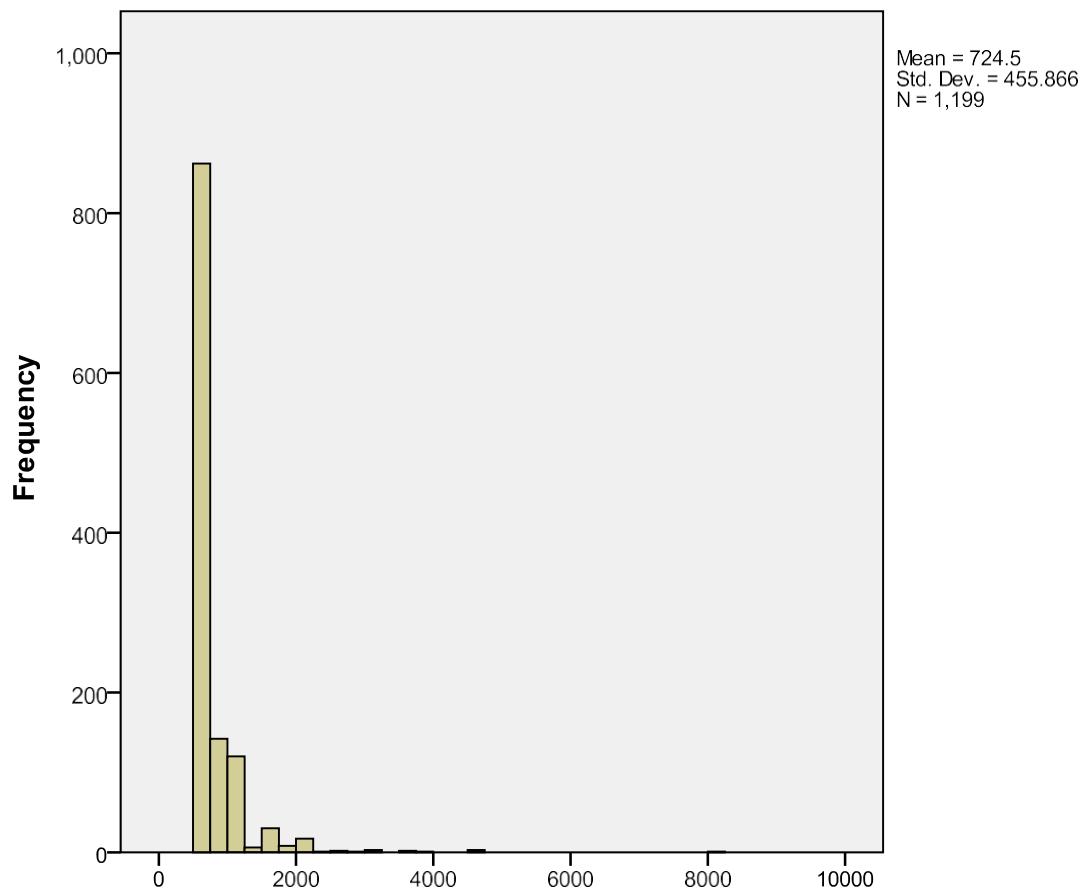
DEL_P1424 D2b: Postpartum haemorrhage primary or secondary

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Primary	1192	6.0	96.3	96.3
	2 Secondary	33	.2	2.7	98.9
	3 Both	13	.1	1.1	100.0
Missing	Total	1238	6.3	100.0	
	-10 Not completed	11418	57.7		
	-9	6	.0		
Total	-2 No PPH	6934	35.0		
	-1 Not Answered	191	1.0		
	Total	18549	93.7		
Total		19787	100.0		

(c) Amount of PPH

DEL_P1425 D2c: Amount of
postpartum haemorrhage in mls

N	Valid	1199
	Missing	18588
Mean		724.50
Median		600.00
Std. Deviation		455.866
Range		7500
Minimum		500
Maximum		8000



(d) Clots passed

DEL_P1426 D1e: Clots passed postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2278	11.5	27.2	27.2
	2 No	6091	30.8	72.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Diagnosed anaemia

DAs were told to record if Hb < 10g/dl

DEL_P1427 D1a: Anaemia postpartum

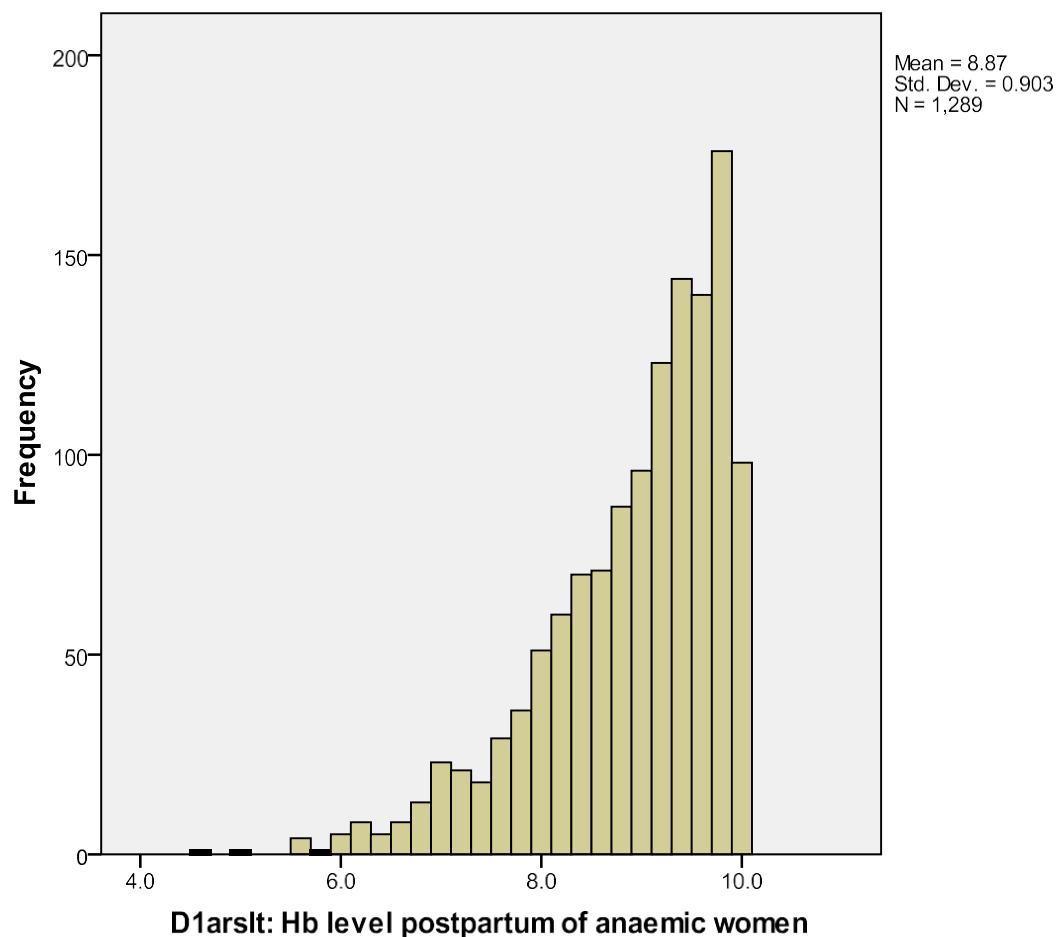
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1295	6.5	15.5	15.5
	2 No	7074	35.8	84.5	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Hb level

DEL_P1428 D1arslt: Hb level

postpartum of anaemic women

N	Valid	1289
	Missing	18498
Mean		8.873
Median		9.100
Std. Deviation		.9035
Range		5.3
Minimum		4.6
Maximum		9.9



Blood transfusion

DEL_P1429 D1b: Blood transfusion postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	247	1.2	3.0	3.0
	2 No	8122	41.0	97.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

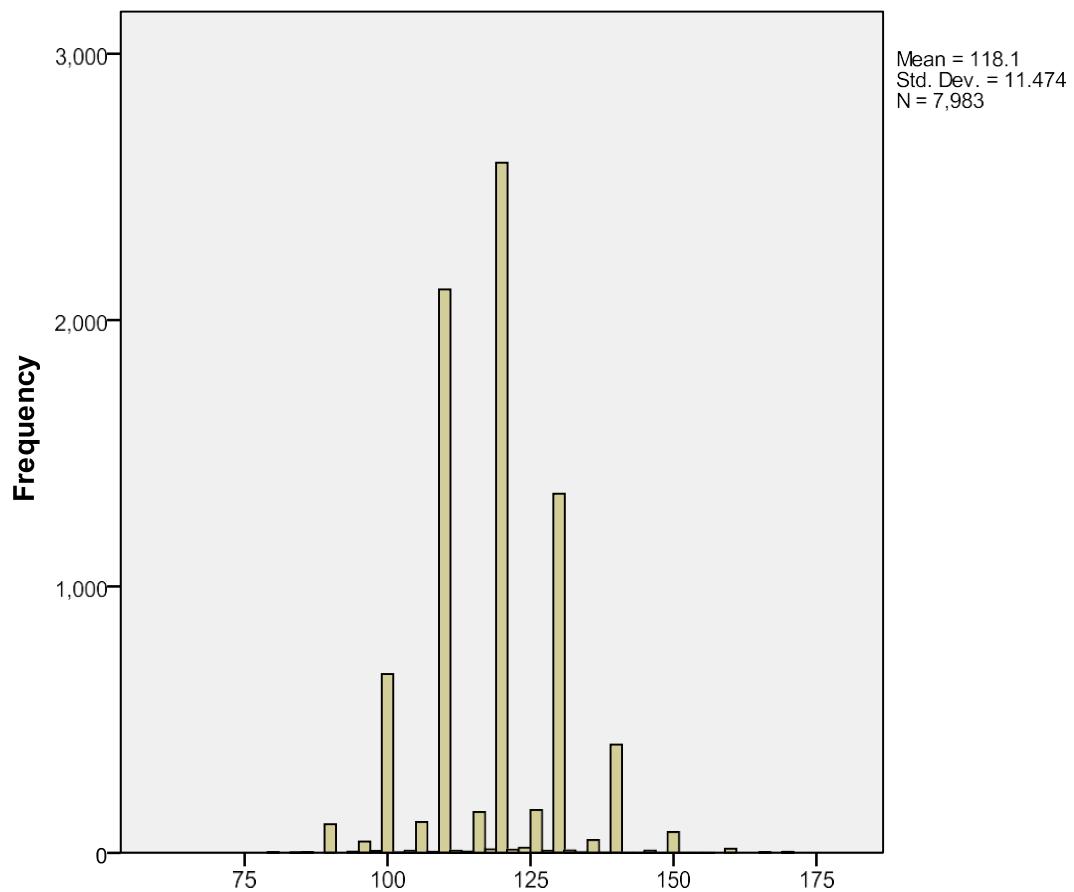
Blood pressures

Last BP recorded after delivery

DEL_P1440 D8sys: Mother's BP after delivery:

systolic reading

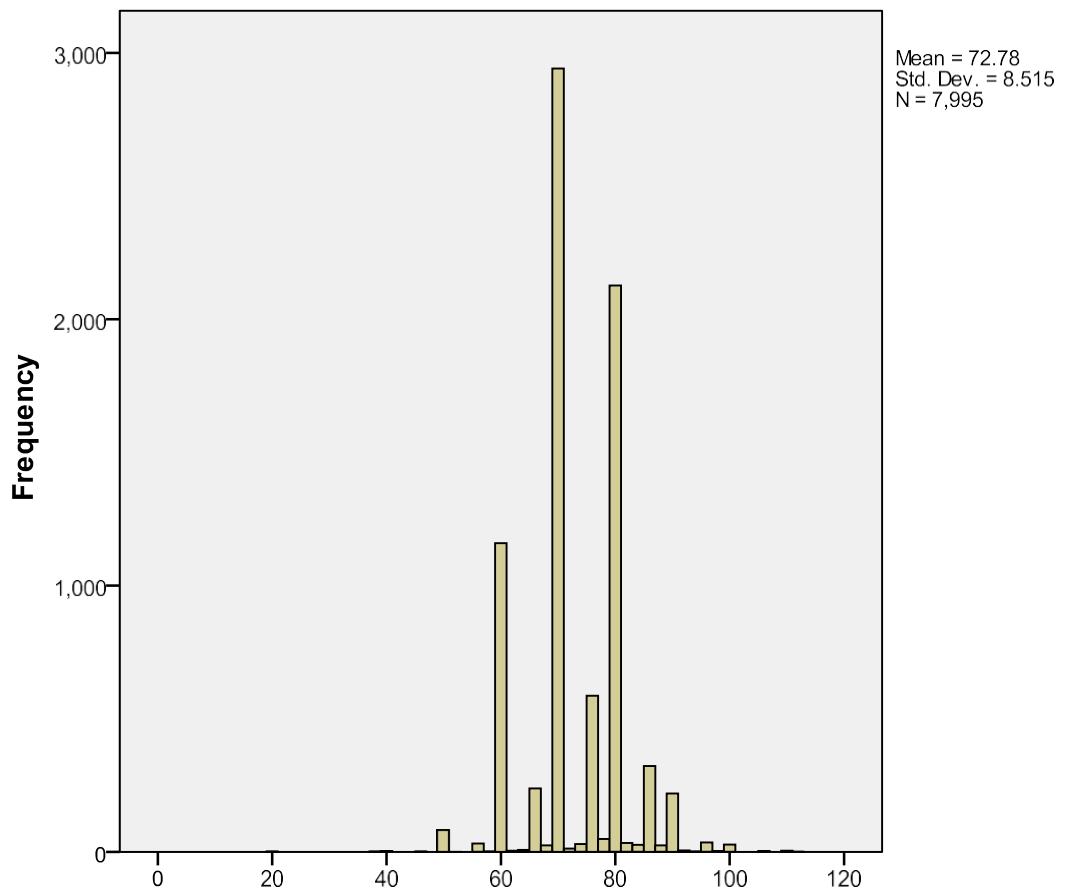
N	Valid	7983
	Missing	11804
Mean		118.10
Median		120.00
Std. Deviation		11.474
Range		90
Minimum		80
Maximum		170



DEL_P1441 D8dia: Mother's BP after delivery:

diastolic reading

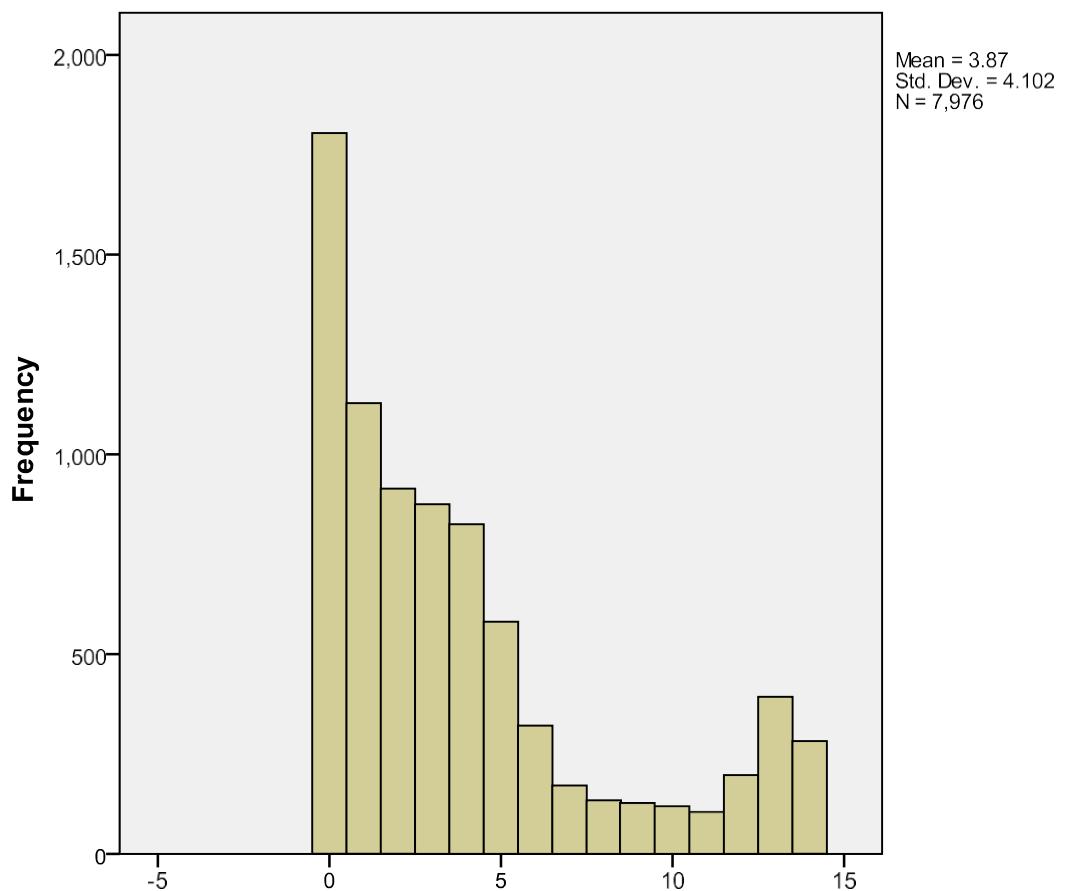
N	Valid	7995
	Missing	11792
Mean		72.78
Median		70.00
Std. Deviation		8.515
Range		92
Minimum		20
Maximum		112



DEL_P1442 DV: Days after delivery BP

measured

N	Valid	7976
	Missing	11811
Mean		3.87
Median		3.00
Std. Deviation		4.102
Range		14
Minimum		0
Maximum		14



Eclampsia

DEL_P1443 D1h: Eclamptic convulsions postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4	.0	.0	.0
	2 No	8365	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Vascular disorders

DVT

DEL_P1450 D1g: Deep vein thrombosis postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3	.0	.0	.0
	2 No	8366	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Pulmonary embolism

DEL_P1451 D1r: Pulmonary embolism postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1	.0	.0	.0
	2 No	8368	42.3	100.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Breast disorders

Mastitis

The DAs were told to tick only if a definite diagnosis of mastitis.

DEL_P1460 D1n: Mastitis postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	242	1.2	2.9	2.9
	2 No	8127	41.1	97.1	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Breast problems

The DAs were told to include 'full and hard', or 'full and painful' but not just full.

DEL_P1461 D1c: Breast problems postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5609	28.3	67.0	67.0
	2 No	2760	13.9	33.0	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

[The breast problems were specified and keyed as text.]

Infections

Uterine infection

This was only identified if there was a definite diagnosis.

DEL_P1470 D1w: Uterine infection postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	165	.8	2.0	2.0
	2 No	8204	41.5	98.0	
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Genital infection

This was recorded when 'thrush' was reported.

DEL_P1471 D1i: Genital infection postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	75	.4	.9	.9
	2 No	8294	41.9	99.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Infection of CS wound

DEL_P1472 D1k: Infection of caesarean wound postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	85	.4	1.0	1.0
	2 No	8284	41.9	99.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Infected episiotomy or perineal tear

DEL_P1473 D1l: Infection of episiotomy / tear postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	80	.4	1.0	1.0
	2 No	8289	41.9	99.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Urinary infection

The DA's instructions were to tick only if there had been a definite diagnosis.

DEL_P1474 D1v: Urinary infection postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	162	.8	1.9	1.9
	2 No	8207	41.5	98.1	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Pyrexia

This was to be reported for temperatures above 37.0

DEL_P1475 D1s: Pyrexia postpartum

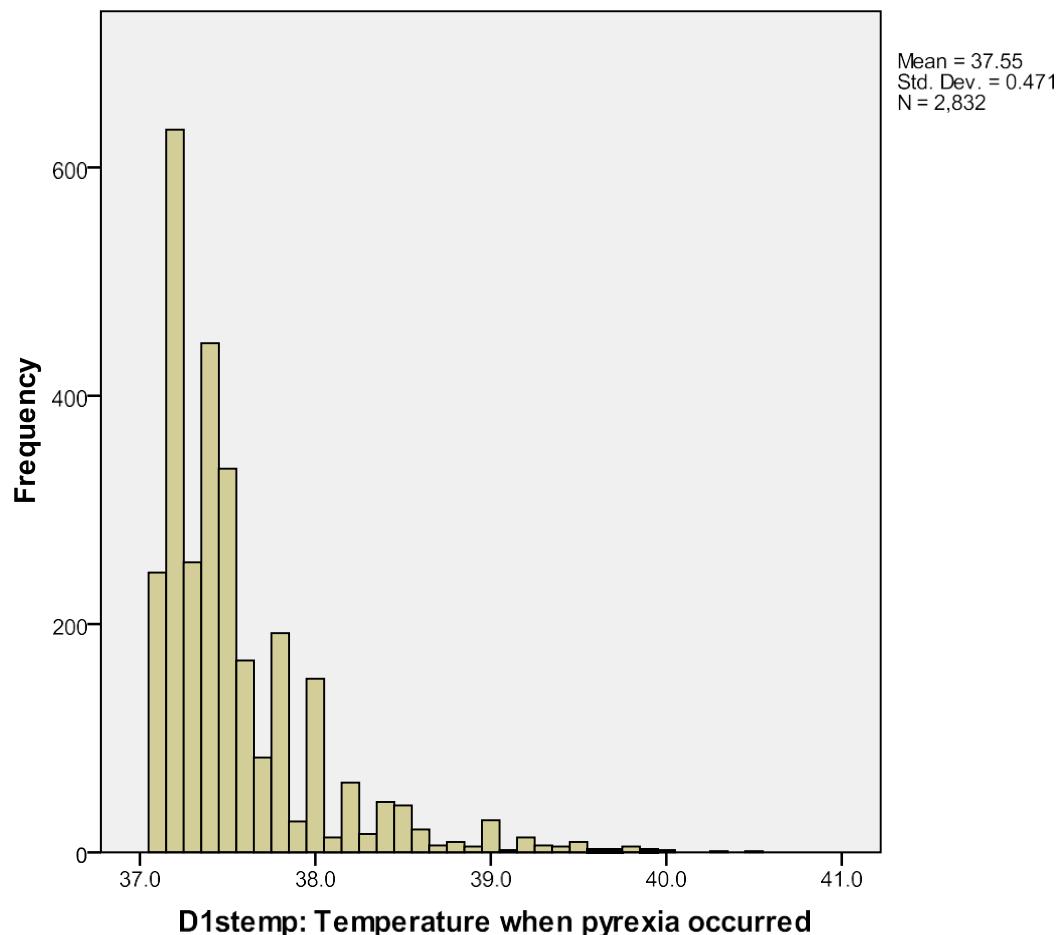
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2842	14.4	34.0	34.0
	2 No	5527	27.9	66.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Temperature recorded

DEL_P1476 D1stemp: Temperature when

pyrexia occurred

N	Valid	2832
	Missing	16955
Mean		37.547
Median		37.400
Std. Deviation		.4711
Range		3.4
Minimum		37.1
Maximum		40.5



Urinary difficulties

Micturition problems

For problems identified the type of problem was recorded as text.

DEL_P1480 D1o: Micturition problems postpartum					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1254	6.3	15.0	15.0
	2 No	7115	36.0	85.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Catheterisation

The DA was told: If catheter in situ, tick box (i.e. catheterised antenatally or in labour). SMD has 'in and out' catheterisations which are documented here if after delivery but before completion of third stage.

DEL_P1481 D1d: Catheterization postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1961	9.9	23.4	23.4
	2 No	6408	32.4	76.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Haemorrhoids

DEL_P1482 D1j: Haemorrhoids postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1088	5.5	13.0	13.0
	2 No	7281	36.8	87.0	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Maternal psychiatric disorders

Depression

This was not ticked unless recorded in the notes.

DEL_P1490 D1f: Depression postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	34	.2	.4	.4
	2 No	8335	42.1	99.6	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

Psychosis

DEL_P1491 D1q: Psychosis postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7	.0	.1	.1
	2 No	8362	42.3	99.9	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Other disorders

The DA instructions were:

“Details of complications or treatments go here even if another box is ticked apart from breast and perineal problems.

Document days post-partum.

Adherent placenta on CS document here (tick manual removal box).

Document placental swab here”.

These were all recorded as text.

DEL_P1500 D1x: Other noted in 1st 14 days postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7298	36.9	87.2	87.2
	2 No	1071	5.4	12.8	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

No disorders

DEL_P1501 D1y: Nothing noted in 1st 14 days postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No postpartum problems	73	.4	.9	.9
	2 Problems noted	8048	40.7	99.1	100.0
	Total	8121	41.0	100.0	
Missing	-10 Not completed	11418	57.7		
	-9	248	1.3		
	Total	11666	59.0		
Total		19787	100.0		

II.11. Medications and procedures to mother post-delivery

For all the medications below the DA was given the option of stating 1. 'yes after delivery' or 2. 'yes but not sure if before or after delivery'. For the few instances where 2 was ticked a variable was derived combining 1 and 2, but the numbers recording 2 are noted.

Pain killersGeneral anaesthetic

DEL_P1510 D3j: General anaesthetic given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes after delivery	124	.6	1.5	1.5
	3 No	8245	41.7	98.5	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

Morphine

DEL_P1513 D3q2: Morphine given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1259	6.4	15.0	15.0
	2.00 No	7110	35.9	85.0	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[this includes 1 instance where the timing was uncertain]

Pethidine

DEL_P1515 D3t2: Pethidine given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	109	.6	1.3	1.3
	2.00 No	8260	41.7	98.7	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[this includes 1 instance where timing was uncertain]

Omnopon

DEL_P1517 D3r2: Omnopon/papaveretum given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	160	.8	1.9	1.9
	2.00 No	8209	41.5	98.1	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no instances where it was unclear where the timing was uncertain]

Lignocaine

DEL_P1519 D3n2: Lignocaine given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1356	6.9	16.2	16.2
	2.00 No	7013	35.4	83.8	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were 2 instances where the timing was uncertain]

Co-dydramol

DEL_P1521 D3d2: Co-dydramol given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	3632	18.4	43.4	43.4
	2.00 No	4737	23.9	56.6	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There was 1 instance where the timing was uncertain]

Co-proxamol

DEL_P1523 D3e2: Co-proxamol given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	574	2.9	6.9	6.9
	2.00 No	7795	39.4	93.1	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Voltarol

DEL_P1525 D3z2: Voltarol given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1086	5.5	13.0	13.0
	2.00 No	7283	36.8	87.0	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There was 1 case where the timing was uncertain]

Paracetamol**DEL_P1527 D3s2: Paracetamol given after delivery**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	4500	22.7	53.8	53.8
	2.00 No	3869	19.6	46.2	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Drugs to prevent haemorrhage and speed up contractions after deliveryErgometrine**DEL_P1531 D3f2: Ergometrine given after delivery**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	318	1.6	3.8	3.8
	2.00 No	8050	40.7	96.2	100.0
	Total	8368	42.3	100.0	
Missing	-1.00	1	.0		
	System	11418	57.7		
Total		11419	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Syntocinon**DEL_P1533 D3w2: Syntocinon given after delivery**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	2965	15.0	35.4	35.4
	2.00 No	5404	27.3	64.6	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were 5 cases where the timing was uncertain]

Syntometrine

DEL_P1535 D3x2: Syntometrine given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	5755	29.1	68.8	68.8
	2.00 No	2614	13.2	31.2	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were 2 cases where the timing was uncertain]

Other specified medication

Progesterone

This included Depo-Provera.

DEL_P1541 D3u2: Progesterone given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	136	.7	1.6	1.6
	2.00 No	8233	41.6	98.4	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Fentazin

DEL_P1551 D3g2: Fentazin given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2.00 No	8369	42.3	100.0	100.0
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Metoclopramide

DEL_P1553 D3o2: Metoclopramide given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	302	1.5	3.6	3.6
	2.00 No	8067	40.8	96.4	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There was 1 case where the timing was uncertain]

Stemetil

DEL_P1555 D3v2: Stemetil given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	757	3.8	9.0	9.0
	2.00 No	7612	38.5	91.0	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Temazepam

DEL_P1557 D3y2: Temazepam given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	420	2.1	5.0	5.0
	2.00 No	7949	40.2	95.0	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Fybogel

DEL_P1561 D3i2: Fybogel given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	360	1.8	4.3	4.3
	2.00 No	8009	40.5	95.7	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Lactulose

DEL_P1563 D3m2: Lactulose given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1565	7.9	18.7	18.7
	2.00 No	6804	34.4	81.3	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Anusol

DEL_P1565 D3c2: Anusol given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	492	2.5	5.9	5.9
	2.00 No	7877	39.8	94.1	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Kamillosan

DEL_P1571 D3i2: Kamillosan given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	713	3.6	8.5	8.5
	2.00 No	7656	38.7	91.5	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Witch hazel

DEL_P1573 D3za2: Witch hazel given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	385	1.9	4.6	4.6
	2.00 No	7984	40.3	95.4	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Antibiotics

The types of antibiotic were recorded as text but have not yet been coded.

DEL_P1581 D3a2: Antibiotics given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	2121	10.7	25.3	25.3
	2.00 No	6248	31.6	74.7	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were 11 cases where the timing was uncertain]

Nutrient supplements

If a combined supplement containing both folate and iron was given, both were ticked.

Folic acid

DEL_P1591 D3h2: Folic acid given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	217	1.1	2.6	2.6
	2.00 No	8152	41.2	97.4	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Iron

DEL_P1593 D3k2: Iron given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	1774	9.0	21.2	21.2
	2.00 No	6595	33.3	78.8	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Prophylaxis

Anti-D

DEL_P1601 D3b2: Anti D given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	808	4.1	9.7	9.7
	2.00 No	7561	38.2	90.3	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

[There were no cases where the timing was uncertain]

Mini-pill

The DAs were instructed to tick the progesterone box as well if the mini-pill was given.

DEL_P1603 D3p2: Mini-pill given during third stage and or after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	162	.8	1.9	1.9
	2.00 No	8207	41.5	98.1	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

Other medication

All other drugs given are recorded as text, but not yet coded.

DEL_P1610 D3zb: Other drug given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes after delivery	4034	20.4	48.2	48.2
	2 Yes, not sure if before /after delivery	10	.1	.1	48.3
	3 No	4325	21.9	51.7	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
Total		19787	100.0		

DEL_P1611 D3zb2: Other drug given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Yes	4044	20.4	48.3	48.3
	2.00 No	4325	21.9	51.7	100.0
	Total	8369	42.3	100.0	
Missing	System	11418	57.7		
Total		19787	100.0		

No medication postpartum

DEL_P1612 D3zc: Nothing noted as given after delivery

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 None noted	31	.2	.4	.4
	2 Drugs given	8337	42.1	99.6	100.0
	Total	8368	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	-7 Unresolved	1	.0		
	Total	11419	57.7		
Total		19787	100.0		

Other procedures

Sterilisation

DEL_P1615 D1u: Sterilisation postpartum

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	63	.3	.8	.8
	2 No	8306	42.0	99.2	100.0
	Total	8369	42.3	100.0	
Missing	-10 Not completed	11418	57.7		
	Total	19787	100.0		

II.12. Maternal discharge and readmission post-delivery

Discharge from maternity hospital

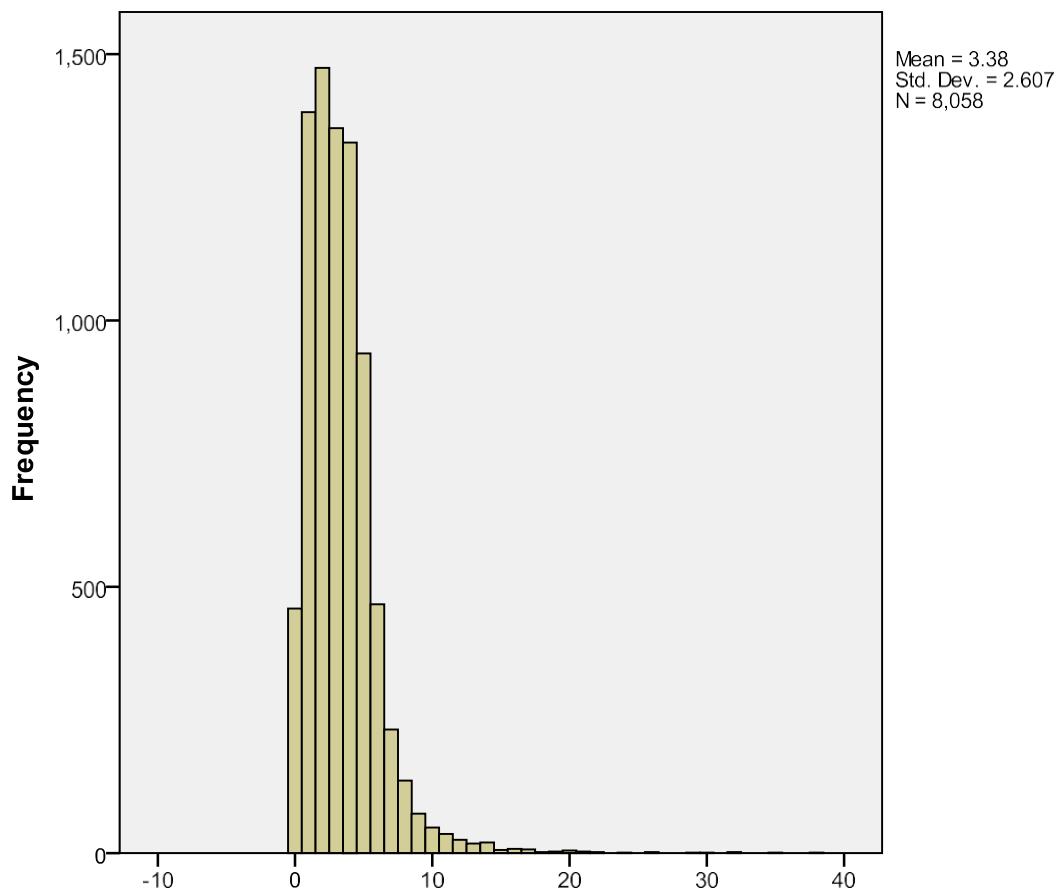
(a) Days after birth

The length of time was calculated from day of delivery and day of discharge. No regard was paid to the hour of delivery and hour of discharge. Thus a woman who was delivered at 23.00 one day and went home at 2am the next would be counted as one day even though only 3 hours.

DEL_P1620 DV: Time mother went home after

the birth (days)

N	Valid	8058
	Missing	11729
Mean		3.38
Median		3.00
Std. Deviation		2.607
Range		38
Minimum		0
Maximum		38



(b) Where discharged to

DEL_P1621 D5: Where mother went when left hospital

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Her own home	7715	39.0	93.9	93.9
	2 Someone else's home	128	.6	1.6	95.5
	3 Other hospital with baby	145	.7	1.8	97.2
	4 Other hospital without baby	5	.0	.1	97.3
	5 Elsewhere	222	1.1	2.7	100.0
	Total	8215	41.5	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	154	.8		
	Total	11572	58.5		
Total		19787	100.0		

(c) Took own discharge

DEL_P1622 D6: Mother took her own discharge

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	8	.0	.1	.1
	2 No	7864	39.7	99.9	100.0
	Total	7872	39.8	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	497	2.5		
	Total	11915	60.2		
Total		19787	100.0		

Readmission of mother

This is for admissions up to 6 weeks post-delivery. The DA was instructed to note reason for admission and brief description of treatment including drugs. If admission is within 14 days, details were documented in the appropriate places in the rest of the questionnaire.

DEL_P1623 D7: Mother was readmitted (prior to 6 week postnatal check)

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	222	1.1	2.7	2.7
	2 No	7965	40.3	97.3	100.0
	Total	8187	41.4	100.0	
Missing	-10 Not completed	11418	57.7		
	-1 Not Answered	182	.9		
	Total	11600	58.6		
Total		19787	100.0		

III. THE NEONATAL FILES

The data here relate to singletons only

- III.1. Background**
- III.2. Details of placenta**
- III.3. State of baby after delivery**
 - signs of asphyxia
 - resuscitation
 - other treatment at delivery
 - abnormalities noted on delivery suite
- III.4. Baby transferred after delivery**
- III.5. Nutrition including vitamin K**
- III.6. Examination of the baby**
- III.7. Signs and symptoms in the neonatal period**
- III.8. Medication given to babies**
- III.9. Treatments and investigations**
- III.10. Discharge from hospital at birth**

III. Neonatal information

III.1. Technical details

At delivery a record was started for each baby. This record stayed with the mother's obstetric record unless the child was hospitalised. If that occurred, the neonatal record was moved into the paediatric record, but retrieved by the data abstractor where possible.

The data here were abstracted by the same abstractor as completed the abstraction of the obstetric record.

The details of the structure and warnings concerning the statistical analysis of the neonatal data are therefore similar to those indicated in Section I of the Obstetric data (see pages 5-7).

Outcome of pregnancy, including birth measurements (birthweight, birth length, birth head circumference), whether live or stillborn, classification of perinatal deaths, and details of any neonatal deaths are shown in Appendix G.

Information concerning the neonates who were admitted to the special care baby unit, the neonatal intensive care unit or surgical unit is in a separate file (Appendix H). These data exist for all study livebirths admitted, regardless of whether or not they were included in the obstetric data abstraction.

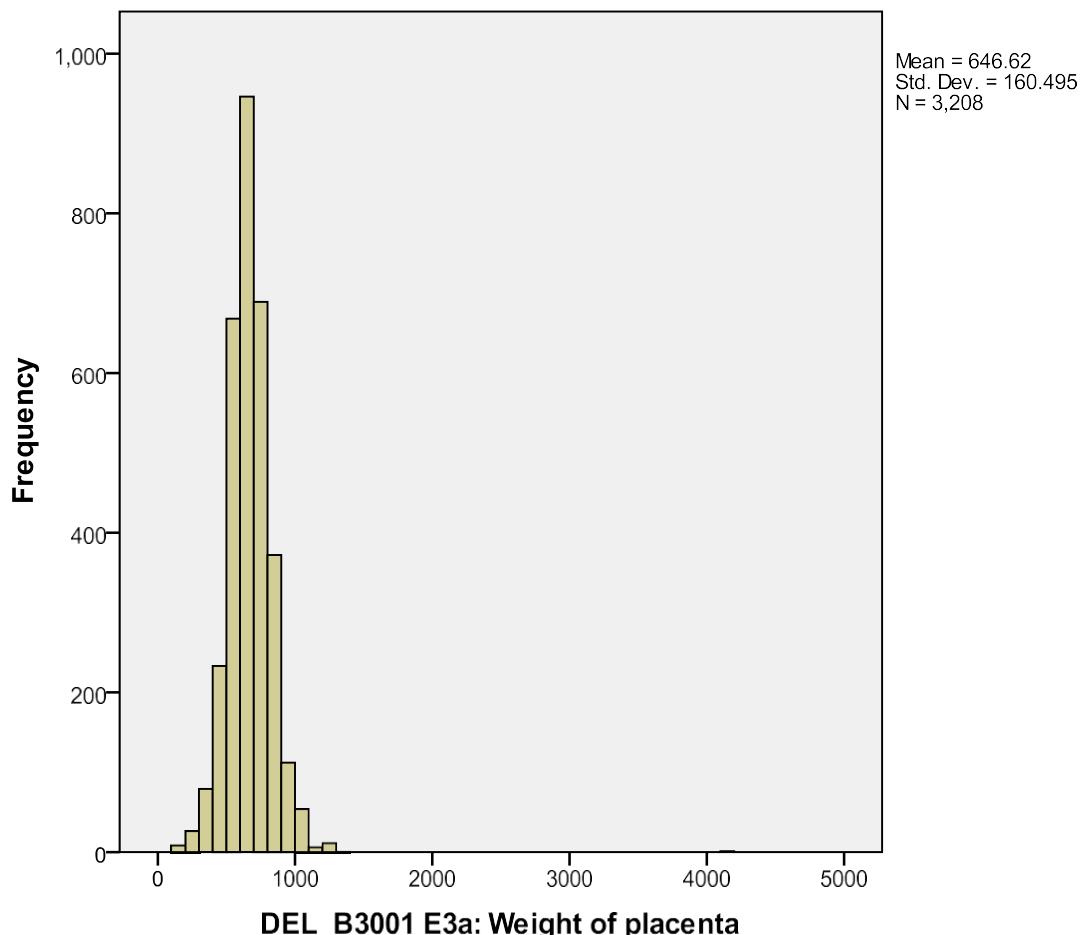
III.2. Details of placenta

WARNING – although the placentae were often weighed in the delivery room, there was no conformity as to whether or not the membranes or cord were included. We recommend that the placental weight should not be used.

DEL_B3000 Whether placenta was weighed

		DEL_B3000 E3anot: Placenta weighed			
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Weighed	3208	16.1	40.0	40.0
	2 No	4819	24.1	60.0	100.0
	Total	8027	40.2	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	155	.8		
	Total	11955	59.8		
Total		19982	100.0		

DEL_B3001 Weight of placenta



DEL_3002 Abnormalities of placenta or umbilical cord

DEL_B3002 E3b: Any abnormalities of placenta or umbilical cord noted

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1923	9.6	24.0	24.0
	2 No	6092	30.5	76.0	100.0
	Total	8015	40.1	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	167	.8		
	Total	11967	59.9		
Total		19982	100.0		

The abnormalities have been recorded as text, but have not yet been coded.

III.3 State of baby after delivery.

Signs of asphyxia

DEL_B4000 Whether baby cried immediately

DEL_B4000 F1a: Baby cried immediately after birth

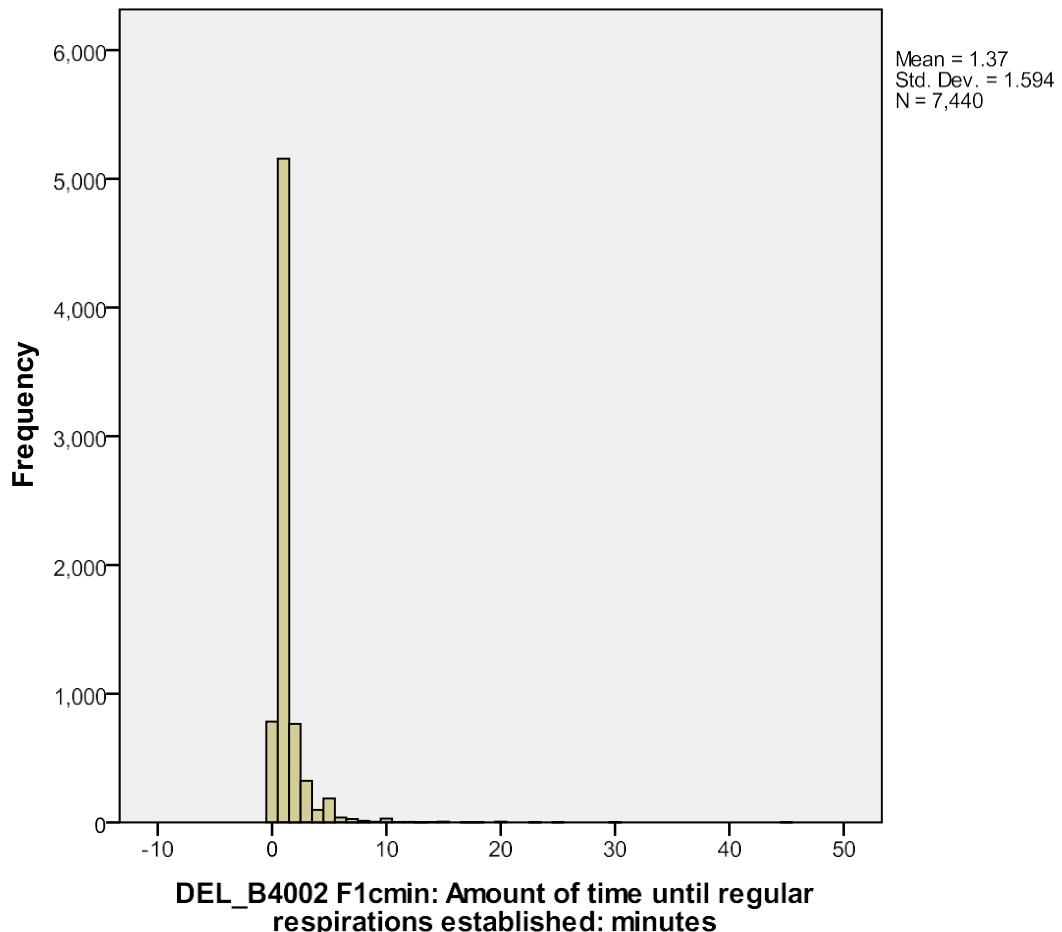
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1428	7.1	69.5	69.5
	2 No	626	3.1	30.5	100.0
	Total	2054	10.3	100.0	
Missing	-10 Not completed	11800	59.1		
	-8 NS	5888	29.5		
	-7 Unresolved	1	.0		
	-1 Not Answered	48	.2		
	-2 Not known	191	1.0		
	Total	17928	89.7		
	Total	19982	100.0		

DEL_B4001 Time to first breath

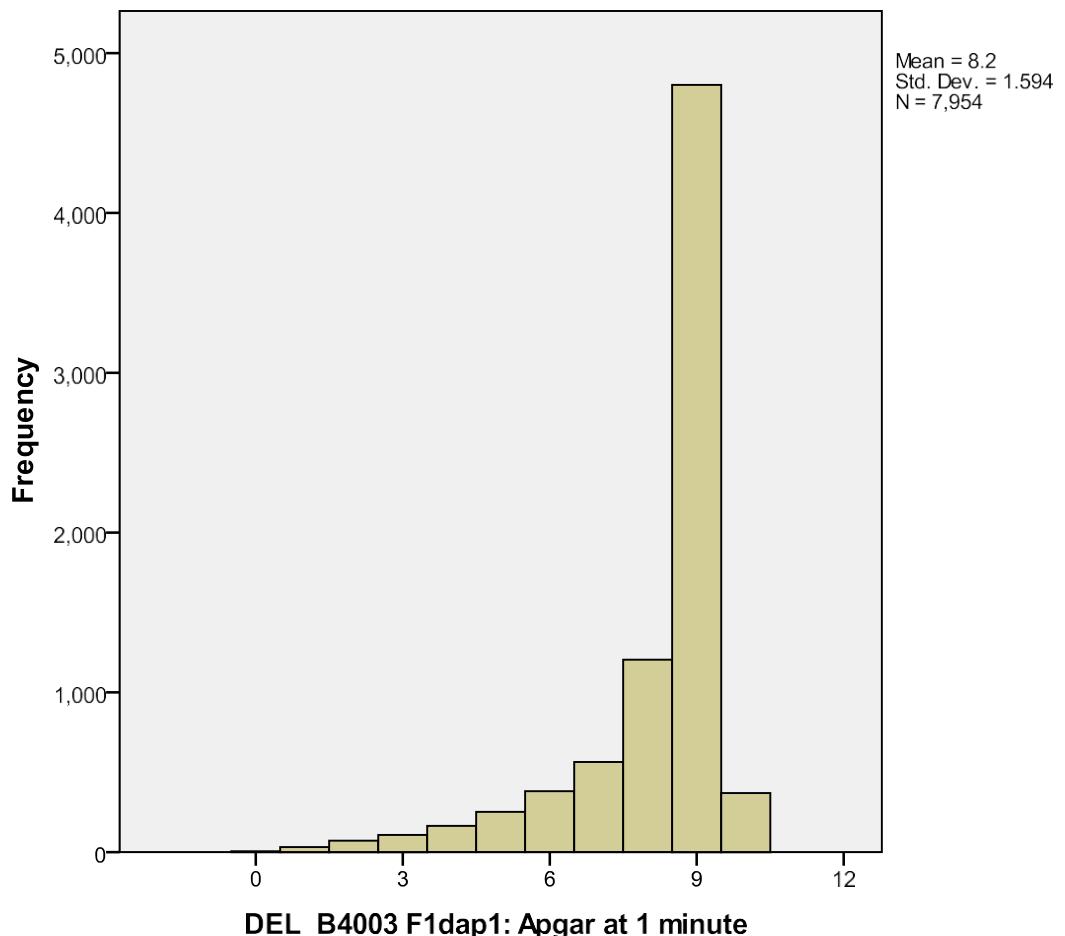
DEL_B4001 F1b: Amount of time before baby took first breath

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 <1 min	3940	19.7	52.7	52.7
	2 1-3 min	3473	17.4	46.5	99.2
	3 >3 min	59	.3	.8	100.0
	Total	7472	37.4	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	51	.3		
	-2 Not stated	659	3.3		
	Total	12510	62.6		
Total		19982	100.0		

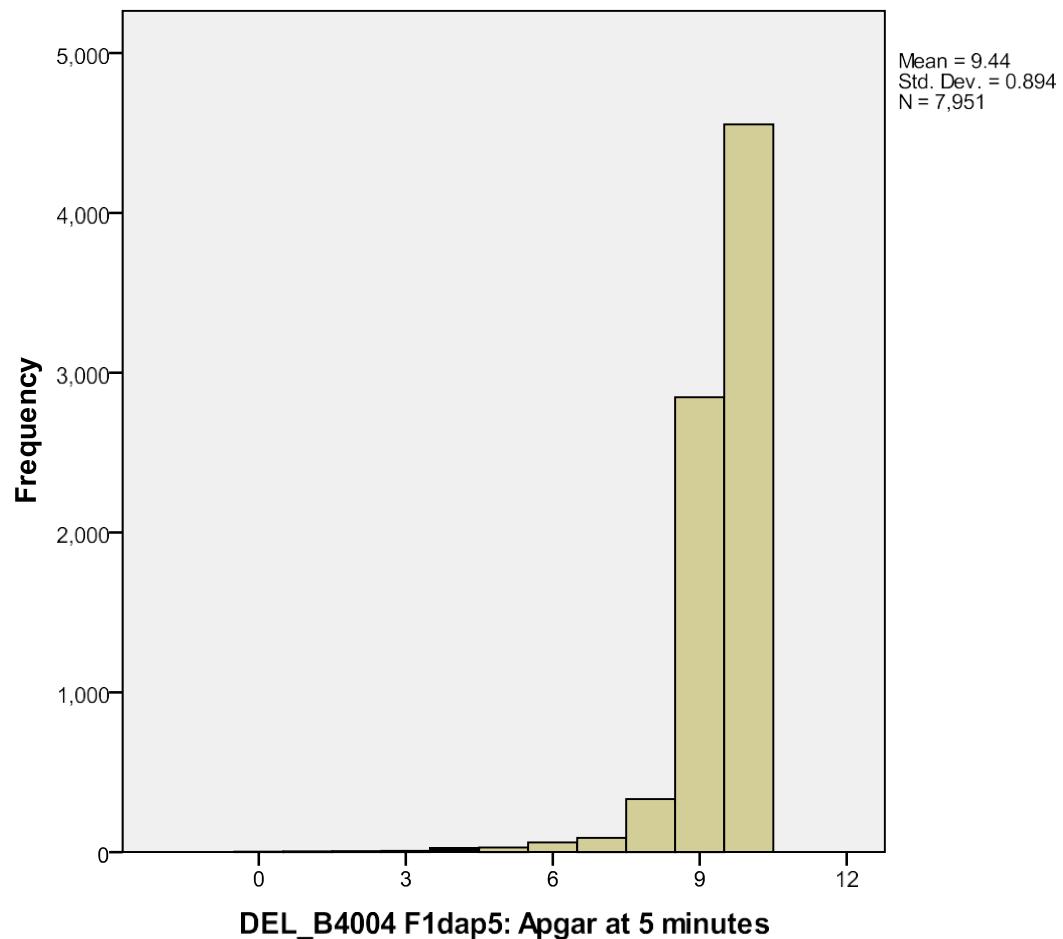
DEL_B4002 Time until onset of regular respirations



DEL_B4003 Apgar at 1 minute



DEL_B4004 Apgar at 5 minutes



Resuscitation

DEL_B4005

DEL_B4005 F1e: Baby was resuscitated

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2409	12.1	30.2	30.2
	2 No	5558	27.8	69.8	100.0
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

Methods of resuscitation

DEL_B4006 F1f1: Method of resuscitation: bag & mask

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	379	1.9	4.8	4.8
	2 No	7588	38.0	95.2	
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

DEL_B4007 F1f2: Method of resuscitation: bag & mask & oxygen

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	392	2.0	4.9	4.9
	2 No	7575	37.9	95.1	
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

DEL_B4008 F1f3: Method of resuscitation: cardiac massage

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	10	.1	.1	.1
	2 No	7957	39.8	99.9	
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

DEL_B4009 F1f4: Method of resuscitation: facial oxygen

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1600	8.0	20.1	20.1
	2 No	6366	31.9	79.9	100.0
	Total	7966	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-1 Not Answered	215	1.1		
Total		12016	60.1		
Total		19982	100.0		

DEL_B4010 F1f5: Method of resuscitation: intubation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	213	1.1	2.7	2.7
	2 No	7754	38.8	97.3	100.0
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

DEL_B4011 F1f6: Method of resuscitation: IPPV with intubation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	226	1.1	2.8	2.8
	2 No	7741	38.7	97.2	100.0
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

DEL_B4012 F1f2: Method of resuscitation: mouth to mouth & nose

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2 No	7967	39.9	100.0	100.0
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
	Total	19982	100.0		

DEL_B4013 F1f8: Method of resuscitation: ventilation NOS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	123	.6	1.5	1.5
	2 No	7844	39.3	98.5	100.0
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
	Total	19982	100.0		

DEL_B4014 F1f9: Method of resuscitation: other

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	152	.8	1.9	1.9
	2 No	7815	39.1	98.1	100.0
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
	Total	19982	100.0		

Other treatment given to neonate at delivery**DEL_B4015 F1g: Drugs given at delivery**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Naloxone	223	1.1	2.8	2.8
	2 Other	22	.1	.3	3.1
	7 No drugs	7722	38.6	96.9	100.0
	Total	7967	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	215	1.1		
	Total	12015	60.1		
Total		19982	100.0		

DEL_B4016 F1h1: Treatment given at or shortly after delivery: suction

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1555	7.8	19.0	19.0
	2 No	6627	33.2	81.0	100.0
	Total	8182	40.9	100.0	
	Missing	11800	59.1		
Total		19982	100.0		

DEL_B4017 F1h2: Treatment given at or shortly after delivery: chest compression

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	8	.0	.1	.1
	2 No	8174	40.9	99.9	100.0
	Total	8182	40.9	100.0	
	Missing	11800	59.1		
Total		19982	100.0		

DEL_B4018 F1h5: Treatment given at or shortly after delivery: cords visualised

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	886	4.4	10.8	10.8
	2 No	7296	36.5	89.2	100.0
	Total	8182	40.9	100.0	
Missing	-10 Not completed	11800	59.1		
Total		19982	100.0		

DEL_B4019 F1h5mec: If cords visualised meconium seen

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	173	.9	20.0	20.0
	2 No	691	3.5	80.0	100.0
	Total	864	4.3	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	7296	36.5		
	-2 Not stated	22	.1		
	Total	19118	95.7		
Total		19982	100.0		

DEL_B4020 F1h4: Treatment given at or shortly after delivery: other

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1284	6.4	15.7	15.7
	2 No	6898	34.5	84.3	100.0
	Total	8182	40.9	100.0	
Missing	-10 Not completed	11800	59.1		
Total		19982	100.0		

Other treatments were described as text, but have not yet been coded.

DEL_B4021 F1h3: Treatment given at or shortly after delivery: none

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5521	27.6	67.5	67.5
	2 No	2660	13.3	32.5	100.0
	Total	8181	40.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	Total	11801	59.1		
Total		19982	100.0		

Abnormalities noted on delivery suite (F9).

These were recorded as text – but have not yet been coded.

III.4. Baby transferred after delivery

DEL_B4050 F2a: Baby transferred

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 No	7203	36.0	90.2	90.2
	1 SCBU in this hosp	512	2.6	6.4	96.7
	2 SCBU in other hosp	9	.0	.1	96.8
	3 Transitional care ward	164	.8	2.1	98.8
	4 Other	94	.5	1.2	100.0
	Total	7982	39.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	200	1.0		
	Total	12000	60.1		
Total		19982	100.0		

Details of other transfers are detailed as text but not yet coded.

Duration of stay**DEL_B4051 F2c: Period baby in unit transferred to**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 <Hr	1	.0	.1	.1
	2 1-5 hr 59 min	10	.1	1.3	1.4
	3 6-23 hr 59 min	26	.1	3.3	4.8
	4 1 day +	741	3.7	95.2	100.0
	Total	778	3.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	7404	37.1		
	Total	19204	96.1		
Total		19982	100.0		

Details of the admissions are found in Appendix G

III.5. Nutrition including vitamin K

Feeds to baby in 1st day**DEL_B4100 F3: Type of feed baby having at 24 hrs**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Breast	4694	23.5	59.2	59.2
	2 Bottle	1728	8.6	21.8	81.1
	3 Breast and bottle	749	3.7	9.5	90.5
	4 Other	752	3.8	9.5	100.0
	Total	7923	39.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	-1 Not Answered	13	.1		
	-3 Not stated	199	1.0		
	Total	12059	60.3		
Total		19982	100.0		

The 'other' type of feed is described in text.

N.B. See details in mother's questionnaires for much more detail of breast and bottle feeding

Vitamin K

There are a number of instances where it was not clear whether the vitamin K was given orally or intramuscularly. The instructions for midwives at the time were as follows:

BMH – all normal term infants to be given 1mg vitamin K₁ (konakion/ phytomenadione). – intramuscular 0.5mg to be given to (a) all unlikely to be fed orally in 1st hours after birth; (b) those following breech, forceps or CS; (c) other rare conditions.

It was given in the CDS before being transferred to the ward.

Southmead – normal delivery of full-term infant 1mg orally – abnormal delivery and/or preterm or birthweight <2500g 0.5mg IM.

It was only to be given on the delivery suite if the mother and baby were for 6 hour discharge. In all other instances it was given in SCBU or on the postnatal wards.

Weston General – recommendations for time of deliveries of study children not available, but believed to be for IM as a general rule.

Note: There was much discussion and controversy concerning vitamin K at the time since two studies from Bristol had shown a link between IM vitamin K and childhood cancer (Golding et al 1990, 1992)^{6,7}.

DEL_B4150 F4: Baby given vitamin K

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes, orally	3501	17.5	45.7	45.7
	2 No	34	.2	.4	46.1
	3 Yes IM	1535	7.7	20.0	66.2
	4 Yes, not stated how	2463	12.3	32.1	98.3
	5 Yes IV	130	.7	1.7	100.0
	Total	7663	38.3	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	-1 Not Answered	180	.9		
	-3 Not stated in notes	292	1.5		
	Total	12319	61.7		
Total		19982	100.0		

III.6. Examination of the baby

DEL_B4300 F7: Baby ever examined by a paediatrician

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7507	37.6	97.5	97.5
	2 No	192	1.0	2.5	100.0
	Total	7699	38.5	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	483	2.4		
	Total	12283	61.5		
Total		19982	100.0		

Examination of the hips

This was answered regardless of who examined the hips – however if examined by the GP this was recorded in pencil on the data sheet.

DEL_B4350 F8a: Hips examined

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	7538	37.7	98.9	98.9
	2 No	80	.4	1.1	100.0
	Total	7618	38.1	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	564	2.8		
	Total	12364	61.9		
Total		19982	100.0		

DEL_B4351 F8b: If hips examined abnormalities noted

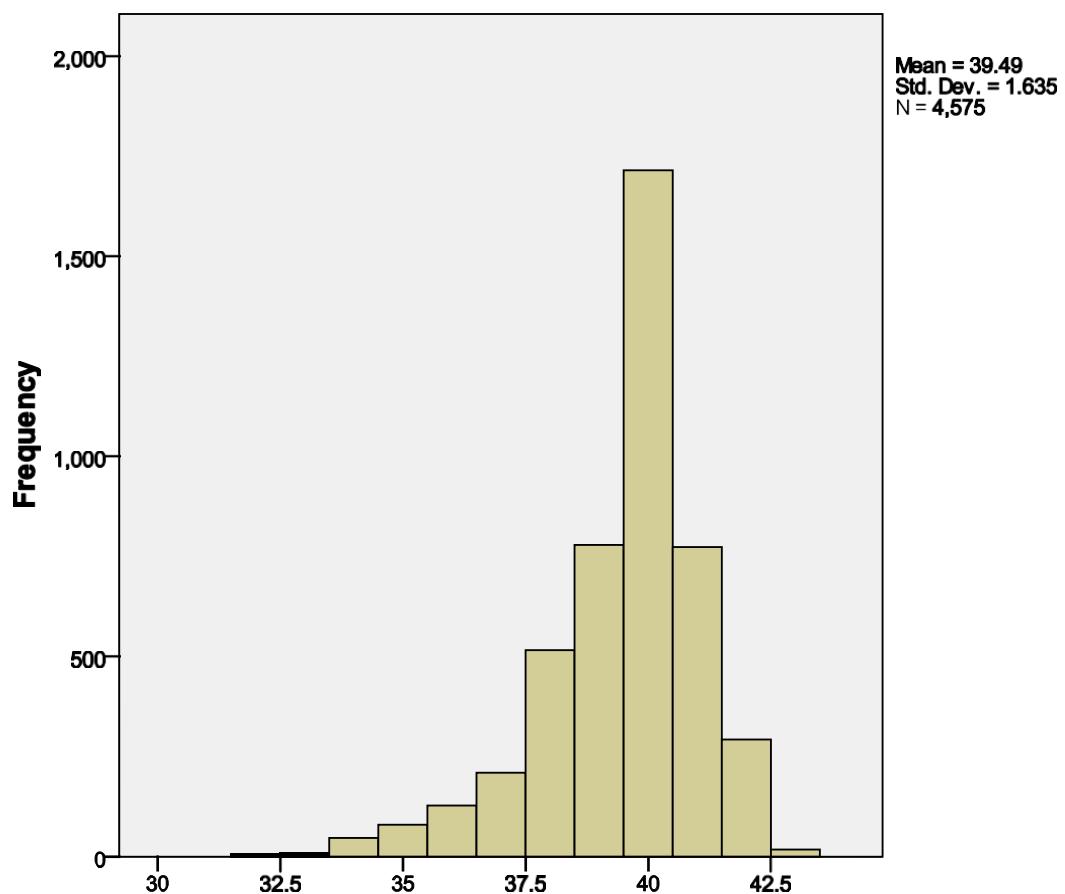
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	349	1.7	4.6	4.6
	2 No	7188	36.0	95.4	100.0
	Total	7537	37.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	645	3.2		
	Total	12445	62.3		
Total		19982	100.0		

The hip abnormalities were recorded as text and have not yet been coded.

Gestational assessment

DEL_B4400 F10a: Formal paediatric assessment of gestation been carried out

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	5479	27.4	74.1	74.1
	2 No	1920	9.6	25.9	100.0
	Total	7399	37.0	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	455	2.3		
	-2 Cannot tell	328	1.6		
Total		12583	63.0		
Total		19982	100.0		



DEL_B4401 F10b: paediatric assessment of gestation (weeks)

DEL_B4402 DV:Gestation period – paediatric assessment

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00 Preterm	270	1.4	5.9	5.9
	2.00 Term	3994	20.0	87.3	93.2
	3.00 Post term	311	1.6	6.8	100.0
	Total	4575	22.9	100.0	
Missing	-10.00 Not completed	11800	59.1		
	-1.00 Not Answered	3607	18.1		
	Total	15407	77.1		
Total		19982	100.0		

III.7. Signs and symptoms in neonatal period

DEL_B4450 F11a: Apnoeic attacks noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	13	.1	.2	.2
	2 No	8122	40.6	99.8	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4451 F11b: Cyanotic attacks noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	65	.3	.8	.8
	2 No	8070	40.4	99.2	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4452 F5: Baby had convulsions

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	9	.0	.1	.1
	2 No	7708	38.6	99.9	
	Total	7717	38.6	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	-1 Not Answered	418	2.1		
Total		12265	61.4		
Total		19982	100.0		

DEL_B4453 F11d: High pitched / abnormal cry noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	10	.1	.1	.1
	2 No	8125	40.7	99.9	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4454 F11i: Twitching noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3	.0	.0	.0
	2 No	8132	40.7	100.0	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4455 F11k: Baby unsettled noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	3103	15.5	38.1	38.1
	2 No	5031	25.2	61.9	
	Total	8134	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
Total		11848	59.3		
Total		19982	100.0		

DEL_B4456 F11h: Sticky eyes noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1612	8.1	19.8	19.8
	2 No	6523	32.6	80.2	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4457 F11e: Moist eyes noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1221	6.1	15.0	15.0
	2 No	6914	34.6	85.0	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4458 F11j: Umbilical infection noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	9	.0	.1	.1
	2 No	8126	40.7	99.9	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4459 F11c: Feeding problems noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	878	4.4	10.8	10.8
	2 No	7257	36.3	89.2	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4460 F11f: Baby mucousy noted in 1st 14 postnatal days

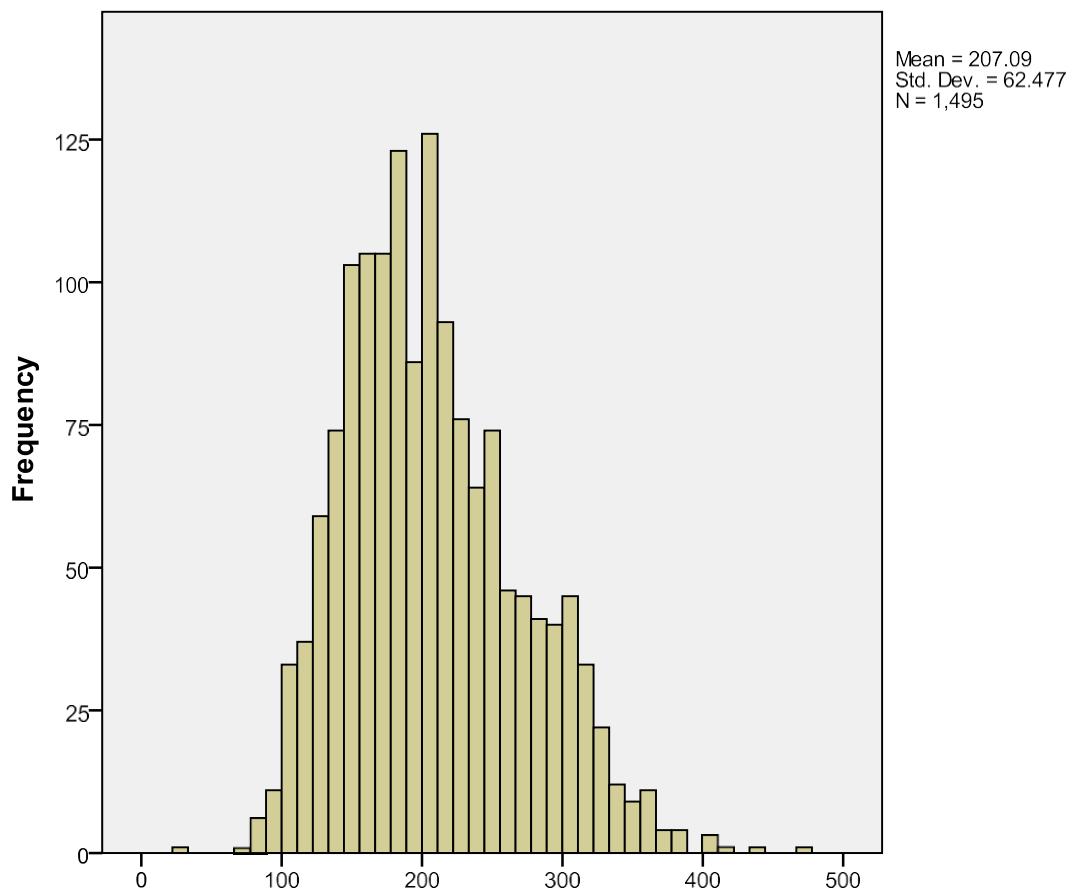
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1769	8.9	21.7	21.7
	2 No	6366	31.9	78.3	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

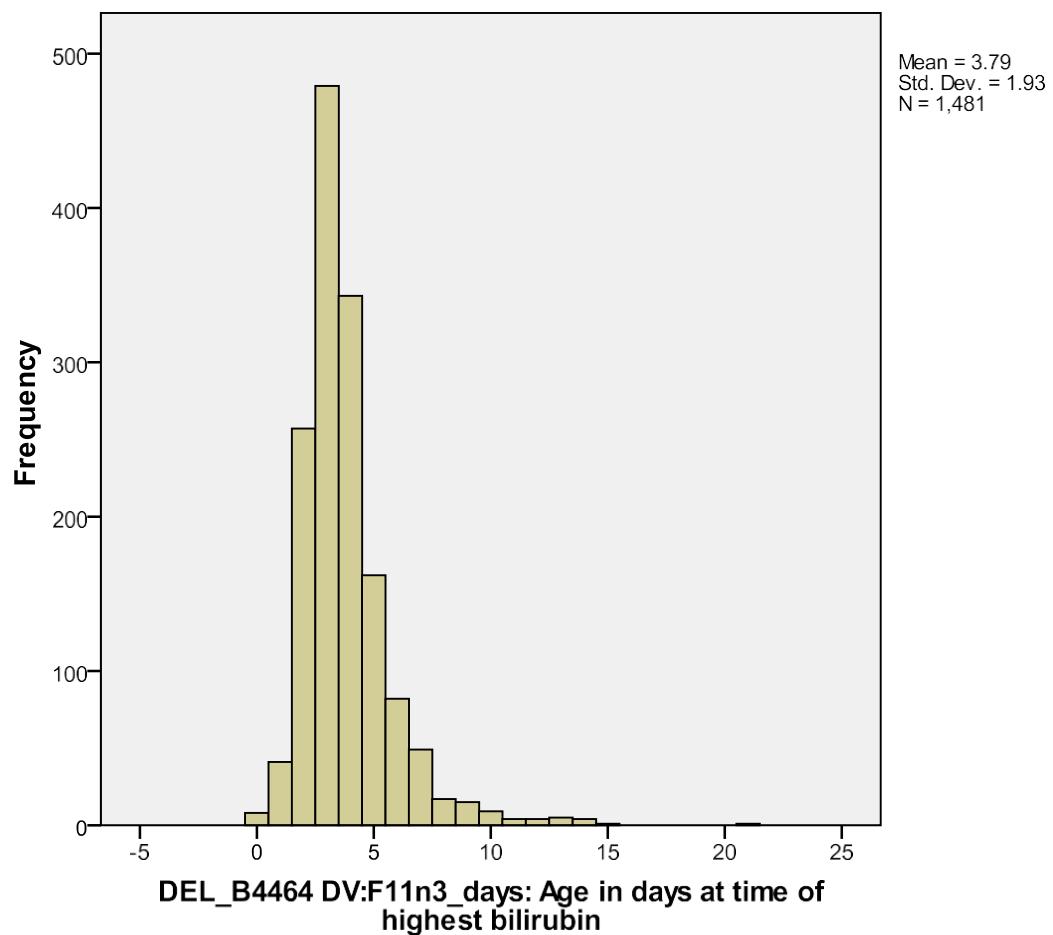
DEL_B4461 F11n1: Jaundice present

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4278	21.4	56.5	56.5
	2 No	3298	16.5	43.5	100.0
	Total	7576	37.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
Total	-1 Not Answered	558	2.8		
	Total	12406	62.1		
		19982	100.0		

DEL_B4462 F11n2: If jaundice present SBR taken

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1505	7.5	35.3	35.3
	2 No	2760	13.8	64.7	100.0
	Total	4265	21.3	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
	-1 Not Answered	3862	19.3		
	-3 Not known	7	.0		
	Total	15717	78.7		
	Total	19982	100.0		

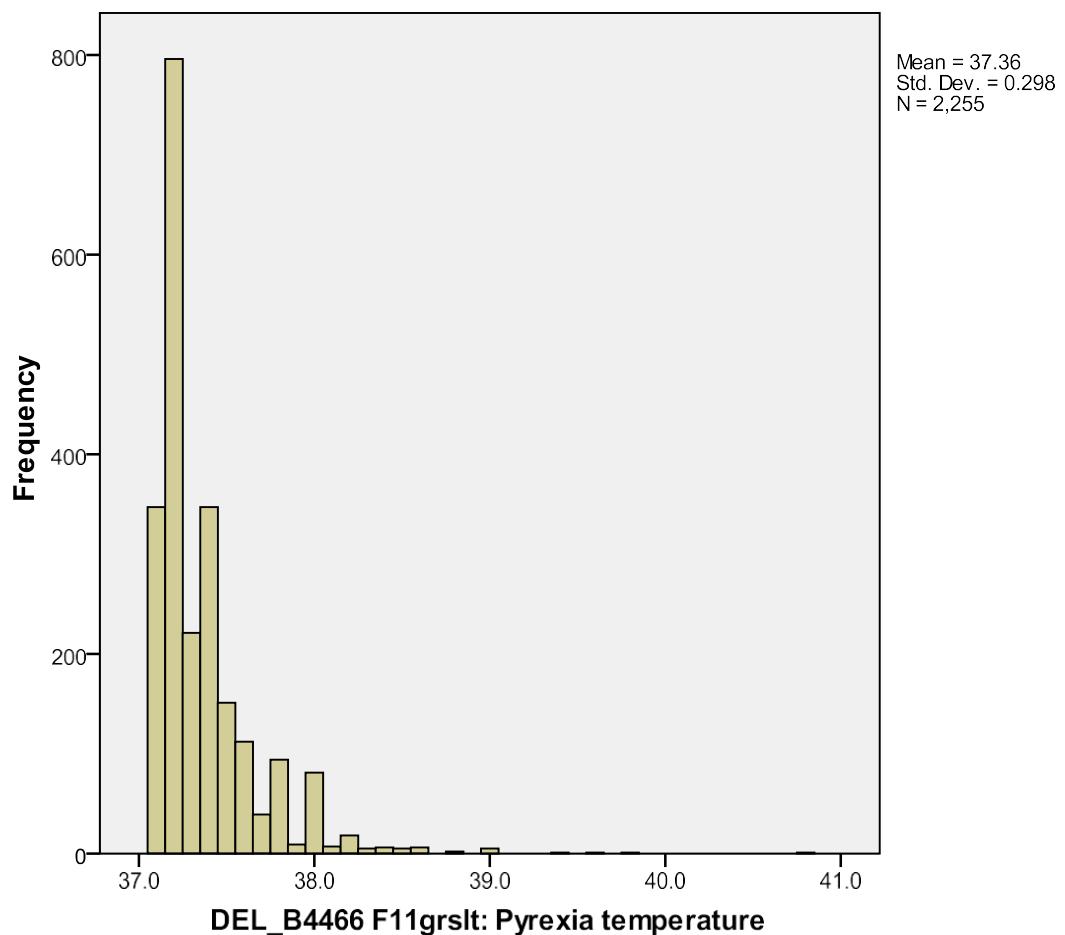


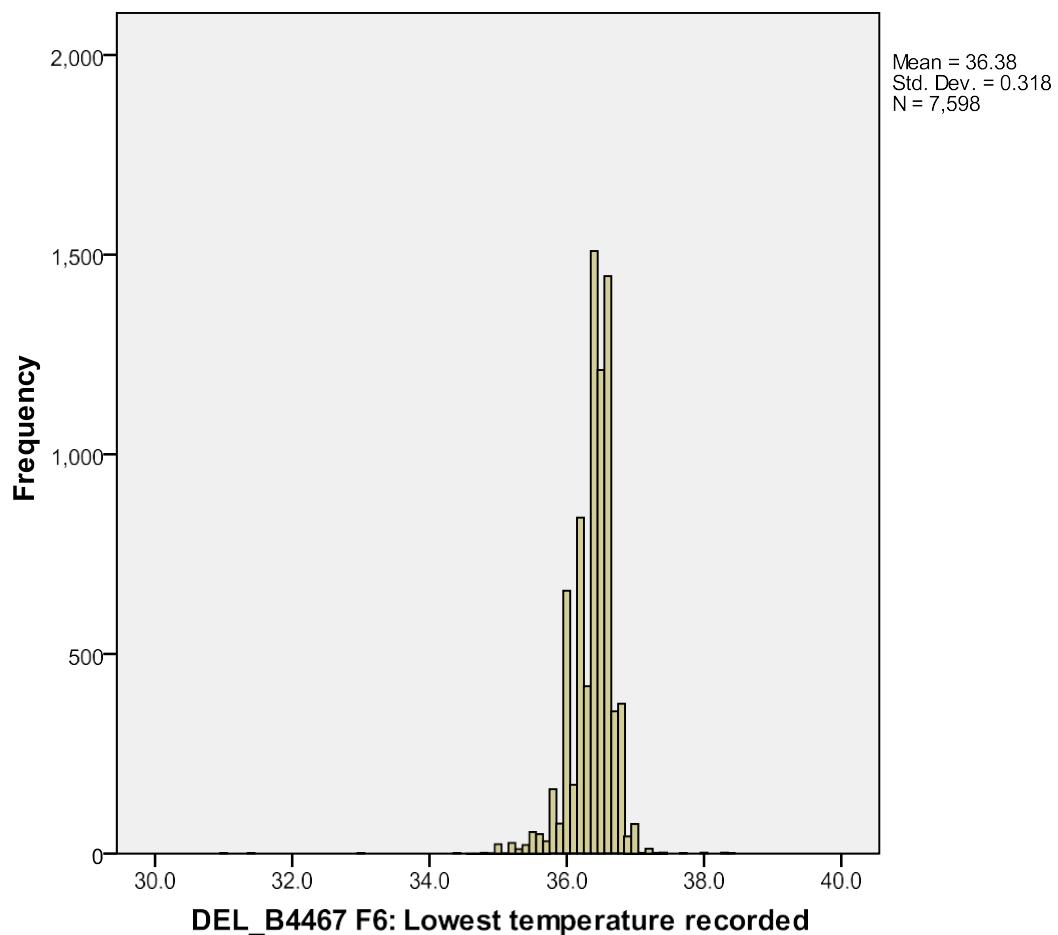


DEL_B4465 F11g: Pyrexia noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2256	11.3	27.7	27.7
	2 No	5878	29.4	72.3	100.0
	Total	8134	40.7		
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
	Total	11848	59.3		
Total		19982	100.0		

If the pyrexia was noted at birth, this was recorded in pencil.





DEL_B4468 F11I: Other noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	6711	33.6	82.5	82.5
	2 No	1423	7.1	17.5	100.0
	Total	8134	40.7		
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
	Total	11848	59.3		
Total		19982	100.0		

All other details were recorded as text but have not yet been coded.

DEL_B4469 F11m: Above problems noted in 1st 14 postnatal days

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	293	1.5	3.6	3.6
	2 Yes	7841	39.2	96.4	100.0
	Total	8134	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
	Total	11848	59.3		
Total		19982	100.0		

This variable is useful in identifying the few neonates who had no recorded problems.

III.8. Medication given to baby

[Note also medication at delivery B40|5]

DEL_B4500 F11o1: Antibiotics given to baby

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	547	2.7	6.7	6.7
	2 No	7588	38.0	93.3	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
	Total	19982	100.0		

DEL_B4501 F11o2: Dextrose given to baby

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	11	.1	.1	.1
	2 No	8124	40.7	99.9	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4502 F11o3: Other drug given to baby

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2512	12.6	30.9	30.9
	2 No	5623	28.1	69.1	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4503 F11o4: Any drugs given to baby

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	4760	23.8	58.5	58.5
	2 Yes	3374	16.9	41.5	100.0
	Total	8134	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
Total		11848	59.3		
Total		19982	100.0		

III.9. Treatments and investigations to neonate

DEL_B4510 F11p3: Baby nursed in incubator

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1110	5.6	13.6	13.6
	2 No	7025	35.2	86.4	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4511 F11p8: Treatments /investigations used

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 No	1816	9.1	22.3	22.3
	2 Yes	6318	31.6	77.7	100.0
	Total	8134	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
Total		11848	59.3		
Total		19982	100.0		

DEL_B4512 F11p1: Blood sugar assessment done

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	2403	12.0	29.5	29.5
	2 No	5732	28.7	70.5	100.0
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4513 F11p2: Other treatments: cot shield

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	490	2.5	6.0	6.0
	2 No	7645	38.3	94.0	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4514 F11p4: Light meter used

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	175	.9	2.2	2.2
	2 No	7960	39.8	97.8	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4515 F11p5: Meconium observations done

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	731	3.7	9.0	9.0
	2 No	7404	37.1	91.0	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4516 F11p6: Phototherapy / double phototherapy given

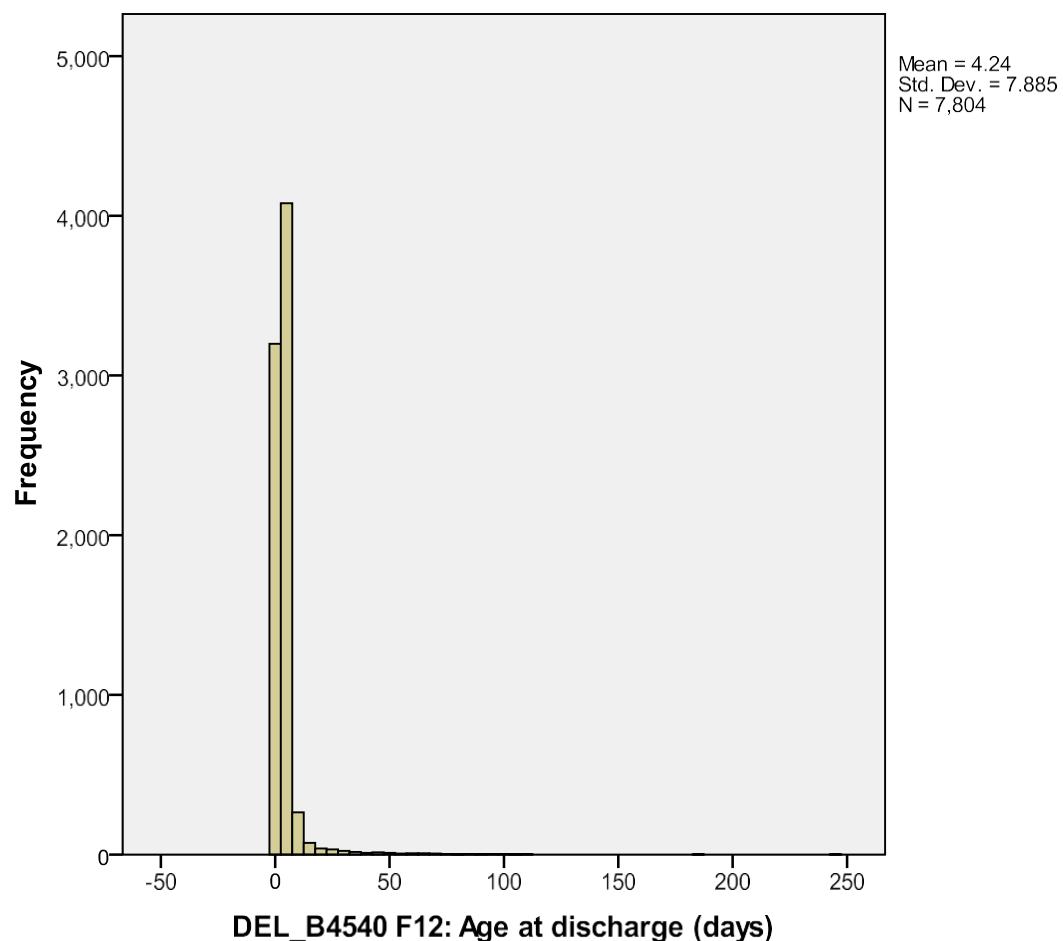
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	216	1.1	2.7	2.7
	2 No	7919	39.6	97.3	
	Total	8135	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-2 Not relevant baby born dead	47	.2		
	Total	11847	59.3		
Total		19982	100.0		

DEL_B4517 F11p7: Other treatments: other

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	4900	24.5	60.2	60.2
	2 No	3234	16.2	39.8	
	Total	8134	40.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	1	.0		
	-2 Not relevant baby born dead	47	.2		
Total		11848	59.3		
Total		19982	100.0		

The other investigations and treatments were recorded as text. They have not yet been coded.

III.10. Discharge from hospital of birth



DEL_B4550 F13a: Person/institution baby discharged to

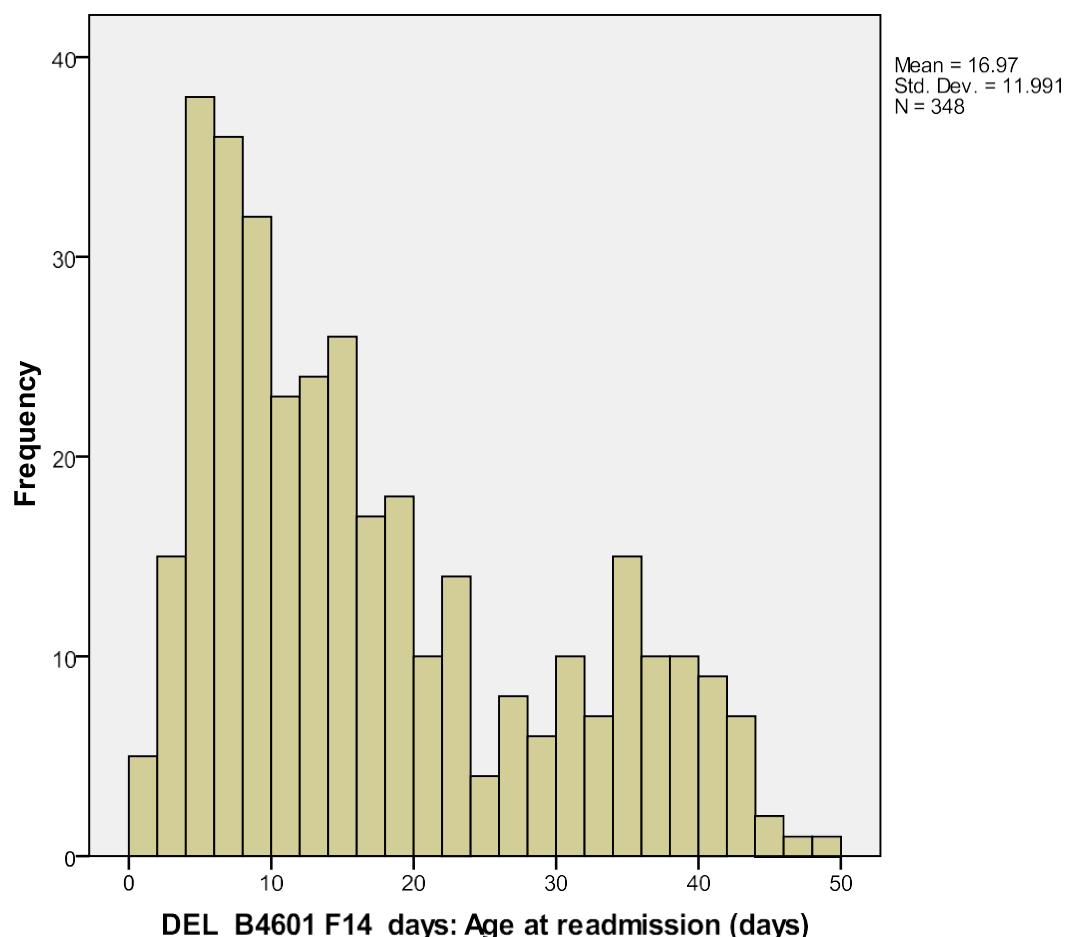
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Mother	7656	38.3	98.0	98.0
	2 Foster parent	1	.0	.0	98.0
	3 Other person	1	.0	.0	98.0
	4 Other hospital unit	154	.8	2.0	99.9
	5 Not yet discharged	4	.0	.1	100.0
	Total	7816	39.1	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	2	.0		
	-2 Not relevant baby born dead	45	.2		
	-1 Not Answered	319	1.6		
	Total	12166	60.9		
	Total	19982	100.0		

DEL_B4551 F13b: Other hospital/unit baby discharged to

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 BMH St. Michaels	14	.1	9.1	9.1
	2 Southmead	8	.0	5.2	14.3
	3 Weston General Hospital	97	.5	63.0	77.3
	4 Barrow	3	.0	1.9	79.2
	5 Children's Hospital	9	.0	5.8	85.1
	6 Other	23	.1	14.9	100.0
	Total	154	.8	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	8028	40.2		
	Total	19828	99.2		
Total		19982	100.0		

DEL_B4600 F14: Baby readmitted since discharge up to 6 wk postnatal check

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	363	1.8	4.6	4.6
	2 No	7564	37.9	95.4	100.0
	Total	7927	39.7	100.0	
Missing	-10 Not completed	11800	59.1		
	-7 Unresolved	2	.0		
	-2 Not relevant baby born dead	45	.2		
	-1 Not Answered	208	1.0		
	Total	12055	60.3		
	Total	19982	100.0		



III.11. Problems with neonatal data collection

DEL_B4650 F15: Problems in data collection

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1 Yes	1880	9.4	23.0	23.0
	2 No	6299	31.5	77.0	100.0
	Total	8179	40.9	100.0	
Missing	-10 Not completed	11800	59.1		
	-1 Not Answered	3	.0		
	Total	11803	59.1		
Total		19982	100.0		

Details of the problems are recorded as text.

IV. References, abbreviations and index

IV.1 References

1. Golding J, MacGillivray I, Shenton T. For the WHO Collaborative Study of Hypertensive Disorders of Pregnancy. Geographic variation in incidence of hypertension in pregnancy. *Am J Obstet Gynecol* 1988; 158: 80-83.
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7. Golding J, Greenwood R, Birmingham K, Mott M. Childhood cancer, intramuscular vitamin K and pethidine given during labour. *British Medical Journal* 1992; 305: 341.

IV.2 Abbreviations

A & E	Accident and Emergency	ECV	External cephalic version
AFP	Alpha-fetaprotein	FSE	Fetal scalp electrode
ANC	Antenatal care	Hb	Haemoglobin
APH	Antepartum haemorrhage	HDP	Hypertensive disorders of pregnancy
ARM	Artificial rupture of membranes	IUGR	intra-uterine growth retardation
BMH	Bristol Maternity Hospital	IVF	In vitro fertilisation
BP	Blood pressure	LMP	Last menstrual period (date of) PLIKS
BPP	Biophysical profile		Psychosis-like symptoms
CDS	Central delivery suite	PPH	Postpartum haemorrhage
CiF	Children in Focus	RTS	Real-time scan
CS	Caesarean section	STORK	Name of obstetric computer system
CTG	Cardiotocograph	TENS	Transcutaneous electrical
CVS	Chorionic villus sampling		nerve stimulation
DA	Data abstractor	VE	Vaginal examination
DVT	Deep vein thrombosis		

IV.3. Index to the obstetric and neonatal files

(N.B. Each variable no. should be preceded by 'DEL_'. The P numbers refer to the obstetric and the B number to the neonatal file)

ABO blood group	P1085	Cardiac massage	B4008
Abruption	P1044, P1268	Catheterised	P1311, P1481
Admissions <u>see</u> Hospital		Cerebral palsy sample	P10
Alphafetaprotein – abnormal	P1080-4	Cervical cerclage	P1120
Amniocentesis	P1070	Chest compression	B4017
Anaemia <u>see also</u> Hb	P1060, P1427, P1428	CiF sample	P7
Analgesia/anaesthetic	P1220-P1235	Clots passed	P1426
Antenatal care	P1003	Co-dydramol	P1521
Antibiotics - to mother	P1240, P1581	Complications of labour	P1265-1313
- to neonate	B4500	Convulsions	B4452
Antibodies – other	P1090	Co-praxamol	P1523
Anticonvulsants	P1244-5	Cord around neck	P1290
Anti-D given	P1088, P1601	Cord prolapsed	P1291
Antihistamine	P1246-7	Cords visualised	B4018-9
Anusol	P1565	Cot shield	B4513
Apgar	B4003-4	Cry, abnormal	B4453
Apnoeic attacks	B4450	Cry, after delivery	B4000
ARM	P1165, P1181	Creatinine	P1075
Asphyxia – signs of	B4000-4	CTG monitoring	P1320-1
Augmentation of labour	P1180	CVS	P1071
Auscultation	P1323	Cyanotic attacks	B4451
Bag and mask	B4007-8	Decelerations	P1363-70
Bath	P1233	Depression, postnatal	P1490
Benzodiazepams	P1241-3	Dexamethasone	P1248
Bilirubin	B4462-4	Dextrose	B4501
Biophysical profile	P1074	Diabetes	P1030
Birth asphyxia – <u>see</u> Asphyxia		Diamorphine	P1228
Birthing pool	P1232	Diazepam	P1241
Bleeding, vaginal	P1040-6, P1268, P1420-5	Dichloralphenazone	P1249
Blood clots passed	P1426	Diet advised	P1126-7
Blood groups	P1085-7	Discharge, took own	P1622
Blood pressure <u>see also</u>	P1260-2, P1440-2	Discharge from maternity hospital	P1620-22
Appendix F		Discharge of baby	B4540-51
Blood sugars	P1032-3	Disorders, other post-partum	P1500-01
Blood transfusion	P1429	Distress, maternal	P1271
Bradycardia	P1339-46	DVT	P1450
Breast feed	B4100	Eclampsia	P1022, P1265, P1443
Breast problems	P1460-1	ECV	P1121-2
Breech delivery	P1210	Ephidrine	P1250
Breech presentation	P1100, P1201	Epidural	P1221-3

Episiotomy	P1410, P1473	Incubator	B4510
Ergometrine	P1531	Induction of labour	P1160-7
Failed ECV	P1122	Infections - mother	P1050-5, P1460, P1470-6
Eyes, moist	B4457	Infections – neonate	B4458
Eyes, sticky	B4456	Instrumental vaginal sample	P5
Failure to progress	P1277	Intended place of delivery	P1001
Feeding problems	B4459	Intubation	B4010-1
Fentanyl	P1231	IPPV	B4011
Fentazin	P1551	Iron	P1593
Fetal blood pH	P1390-3	IVF	P1000
Fetal growth	P1105	Jaundice	B4461-4
Fetal heart rate		Kamillosan	P1571
- abnormalities	P1330-P1378	Keillard's forceps	P1211
- variability	P1355-62	Ketones	P1076, P1272-3
- monitoring	P1320-6	Labour, length of	P1190-2, P1274-7, P1401
Flat trace (fetal)	P1371-4	Lactulose	P1563
Folic acid	P1591	Left lateral position	P1300
Forceps delivery	P1210-1	Light meter	B4514
FSE monitor	P1322	Lignocaine	P1519
Fybogel	P1561	LMP – certainty	P1005
Gas and air	P1227	- gestation based on	P1006-7
General anaesthetic	P1220, P1510	- month of	P1004
Genital herpes	P1050	Loss of beat to beat variability	P1355
Genital infection	P1471	Manual removal of placenta	P1403
Gestation	P1006-10	Mastitis	P1460
- paediatric assessment	B4400-2	Maternal depression sample	P3
Glycosuria	P1034	Measurements, no. antenatally	P1015
Gonorrhoea	P1051	Meconium in liquor	P1292-4, B4019
Haemorrhage <u>see</u> Bleeding		Meconium observations	B4515
Haemorrhoids	P1482	Medication – in labour	P1240-P1257
Hb level <u>see also</u> Appendix F	P1047, P1428	- post-natal	P1510-1611
HDP	P1020-4	- to baby	B4015, B4500-3
Hepatitis B	P1055	Membrane rupture	P1150-4
Hips – abnormal	B4351	Metoclopramide	P1553
Hips – examined	B4350	Micturition	P1480
Hospital admissions	P1130, P1140-3,	Mini-pill	P1603
<u>see also</u> Appendices E and G	B4050-1, B4600	Missing twin sample	P11
	P1620-4	Mobility of mother	P1182
Hydramnios	P1104	Monitoring, unknown	P1326
Hyperemesis	P1061	Month	
Hypertension diagnosed	P1020-1	- of LMP	P1004
Hypertension postpartum	P1440-42	Morphine	P1513
Illegible information	P150	Mouth to mouth resuscitation	B4012

Mucousy	B4460	Prolonged labour	P1275-6
Multiple births	P50	Progeseterone <u>see also</u> Mini-pill	P1541
Multiple pregnancy	P1107-8	Prostaglandins	P1161-4
Neville Barnes forceps	P1211	Proteinuria	P1263-4
Nitrazepam	P1242	Psychosis, postpartum	P1491
Obstructed labour	P1278	Psychosis-like symptom sample	P9
Oedema	P1266-7	Pudendal block	P1225
Oligohydramnios	P1103	Pulmonary embolism	P1451
Omnopon	P1517	Pyrexia - mother	P1269-70, P1475-6
Oxygen – to mother	P1255	Pyrexia – neonate	B4465-6
Oxygen – to baby	B4007, B4009	Random sample	P1
Oxytocin	P1166, P1183, P1531-3	Ranitidine	P1247
Paediatrician examination	B4300	Readmission of mother	P1623
Paracetamol	P1527	Readmission of neonate	B4600-1
Paparveretum	P1517	Reduced/poor variability	P1359-P1362
Perineal infiltration	P1224	Respirations – time to onset	B4001-2
Perineal tear	P1411-2	Rest advised	P1123-5
Perineum problems	P1413	Resuscitation	B4005-14
Pethidine	P1229, P1515	Retained placenta	P1402
Pethilorfan	P1230	Rhesus antibodies	P1087
Phenergan	P1246	Rhesus blood group	P1086-7
Phenobartitone	P1244	Right lateral position	P1301
Phenytoin	P1245	Ritrodrine	P1251
Phototherapy	B4516	Rhodes forceps	P1211
Place of delivery	P1001-2	Rubella antibodies	P1089
Placenta		Rutter/Thorpe sample	P12
- abnormalities	B3002	Salbutamol	P1252
- manual removal of	P1403	Salt restriction	P1126
- retained	P1402	Samples selected	P1-P15
- weight	B3000-1	SCBU admission	B4050-1
Placenta praevia	P1045, P1268	Season <u>see</u> Month	P1424
Polyhydramnious	P1104	Secondary PPH	P1003
Position of mother in labour	P1300-1	Shared care	P1371-P1374
Postpartum complications	P1400-1501	Sinusoidal pattern/flat trace	(fetal)
Postpartum haemorrhage	P1420-5	Sodium citrate	P1253
Pre-eclampsia	P1024	Sonicaid	P1324
Precipitate labour	P1274	Spinal anaesthetic	P1226
Presentation	P1100-2, P1201	Sterilisation	P1615
Preterm	P1010	Stemetil	P1555
Preterm labour, threatened	P1106	Suction	B4016
Preterm sample	P6, P8	Sugars – blood	P1072-3, B4512
Primary PPH	P1424	Syntocinon	P1166, P1183, P1533

Syntometrine	P1535	Type 2 dips	P1351-4
Syphilis	P1052	Ultrasound examinations	
Tachycardia	P1331-8	- total no.	P1110
Teenage sample	P2	- details of each <u>see</u> Appendix D	
Temazepam	P1243, P1557	Umbilical cord – <u>see</u> Cord	
Temperature	B4466-7	Umbilical infection	B4458
TENS	P1234	Unsettled	B4455
Third stage of labour	P1400-1	Unstable lie	P1102
Threatened abortion	P1043	Urea measured	P1077
Time of		Urinary tract infection	P1053, P1474
- delivery	P1213	Uterine infection	P1470
- hospital admission	P1142	Vacuum extraction	P1210
- membrane rupture	P1150	Vaginal discharge	P1054
- onset of labour	P1190	Ventilation	B4013
- third stage end	P1400	Vitamin K	B4150
Transfer – baby	B4050	Voltarol	P1525
Transfer, hospital-mother	P1621	Vomiting – <u>see</u> Hyperemesis	
Transfusion, blood	P1310	Water birth	P1302
Transverse lie	P1101	Weight gain, maternal	P1128-9
Treatment	B4015-21	Witch hazel	P1573
Twitching	B4454	Wound infection	P1472
Type 1 dips	P1347-50	Wrigley's forceps	P1211