



**NB-IRDT**

New Brunswick Institute for  
Research, Data and Training

# Horizon Perinatal Data HH19

Compiled by NB-IRDT Staff  
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## About this Codebook

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Due to the operational nature of administrative data sets, there is potential for discrepancies between the names of variables and their corresponding definitions. In the case of such a discrepancy, the variable definition should be considered the most accurate representation.



## Overview

Horizon Perinatal data are data from the New Brunswick Perinatal Health Program. The provincial program works directly with all health care providers in the province to promote excellence in the provision of perinatal care.

## Sample Universe

Pregnant women who went to Horizon Health facility during the pregnancy.

## Date Range

2015-01-05 to 2022-12-21

## Data Source

PerinatalNB

## How to Cite this Codebook

New Brunswick Institute for Research, Data and Training. (2023). Horizon Perinatal Data HH19 Codebook. Fredericton, NB: New Brunswick Institute for Research, Data and Training.

## Acknowledgements

The HH19 Database is used with the permission of Horizon Health Network.

## About this Product

### Purpose of the Product

The purpose of the HH19 Database Codebook is to provide information on the linkable New Brunswick Horizon Perinatal data held at the New Brunswick Institute for Research, Data and Training (NB-IRDT). This data is accessible to researchers for relevant research areas like perinatal care, public health, trauma related, etc.) research.

### Definitions and Concepts

Maternal – represents all live deliveries.

Newborn – represents all liver births.

Abortion – represents all abortions that required intervention (does not include miscarriages where no intervention such as D&C is required, etc).

Stillbirths – represents all Stillbirths (i.e. infants born  $\geq 20$  weeks gestational age with no signs of life.

### Content

Horizon Perinatal Codebook contains 4 tables with 119 variables total.

### General Methodology

The Neonatal Withdrawal Present field was to capture if any scoring tool to determine neonatal withdrawal was present on the infant's chart. The Withdrawal Treatment field was to capture how the infant was treated for neonatal withdrawal from maternal drugs. These fields were added in 2021, but after collection for 2 years it was found that these fields were not reflective of what was trying to be captured. Use of these fields is not recommended, and they will not be captured in the dataset after the end of the 2022/23 fiscal.

### Limitations

- All newborns and stillborns have been matched to a maternal delivery or abortion, except for those where the delivery occurred outside of hospital (i.e. on the way to hospital, or within the emergency room). All home births with a registered midwife are included in the delivery dataset.
- Any field with multiple columns are multiselect fields and can have more than one response per person or infant, and have been separated out to ensure one line of data per patient.
- The perinatal chapter has undergone a number of changes since its implementation in 2016 with a number of new fields added in 2019 such as

Method of Conception, Pregnancy on contraceptive, Pre-Pregnancy Marijuana Use, Pregnancy Marijuana Use, Pregnancy Marijuana Use Intake, Group B Strep, Indication for Caesarean, VBAC eligibility, PROM, and Presentation of Fetus.

- With the addition of the separate marijuana use fields, this information was pulled out of the Substance Use field. Prior to April 2019 marijuana use in pregnancy can be determined from the Substance Use field, where it was coded as 3.
- The Admission to SCU field in the newborn datafile is collected only for infants at Miramichi Regional Hospital as this information cannot be collected within the DAD Special Care Unit field as this facilities Nursery is not MIS designated.
- The COVID vaccine field was added in January 2021, while the COVID in pregnancy field was added in April 2022.
- The Project 400 fields are capturing data collected on the provincial Infant Feeding Data Collection Form. This form was updated in 2019, and the fields will represent different questions for infants discharged prior to November 1, 2019. Please see below what the fields represents from April 1, 2016, to October 31, 2019, and then from November 1, 2019 onwards.

### **Project 400 Fields for discharges between April 1, 2016 and October 31, 2019**

Field 1 – Was the baby placed in uninterrupted skin-to-skin contact immediately after birth for at least 1 hour with his or her mother

Responses: 1 – Yes, 2 – No

Field 2 – What did the newborn receive at the first feeding after birth (or first attempt to feed)?

Responses: 1 – Breastmilk (directly or expressed/donor milk), 2 – Infant formula, 3 – the newborn was not fed in this facility (transferred prior to first feed or neonatal death)

Field 3 – What did the newborn receive from birth to discharge/transfer from your hospital

Responses: 1 – Breastmilk only (directly or expressed/donor milk), 2 – Breastmilk and other liquids (formula, water or other fluids), 3 – Infant formula only

Field 3a/4 – Did the infant experience any of the following medical conditions

Responses: 1 – Yes, 2 – No

Field 5 – Did the mother experience any of the following medical conditions

Responses: 1 – Yes, 2 – No

### **Project 400 Fields for discharges from November 1, 2019 onwards**

Field 1 – Was the baby placed in uninterrupted skin-to-skin contact immediately after birth for at least 1 hour with his or her mother

Responses: 1 – Yes, 2 – No, 3 – The infant was not born in this facility

Field 2 – Did the newborn receive any breastmilk during the hospital stay

Responses: 1 – Yes, 2 – No, 3 – the newborn was not fed in this facility (transferred prior to first feed or neonatal death)

Field 3 – What did the newborn receive from birth to discharge/transfer from your hospital

Responses: 1 – Breastmilk only (directly or expressed/donor milk), 2 – Breastmilk and other liquids (formula, water or other fluids), 3 – Infant formula only

Field 3a/4 – Was the newborn still receiving breastmilk at discharge/transfer

Responses: 1 – Yes, 2 – No

Field 5 – Did the newborn/mother experience any of the following medical conditions

Responses: 1 – Yes, 2 – No

### **Comparison to Other Products/Versions**

N/A

### **Using with Other Products**

N/A

## Record Layouts and Data Descriptions

### Overview

#	Name	Unit of Observation	Variables
1	Maternal Data	Pregnant NB Residents	91
2	Newborn	Pregnant NB Residents	19
3	Abortion	Pregnant NB Residents	6
4	Stillbirth	Pregnant NB Residents	3

### Maternal Data

#	Name	Label	Type
1	MaternalID	MaternalID	Char
2	BabyID	BabyID	Char
3	PregOut1	PregOut1	Num
4	PregOut2	PregOut2	Num
5	PregOut3	PregOut3	Num
6	TermPregCA	TermPregCA	Char
7	NumBaby	NumBaby	Num
8	WorkStatus	WorkStatus	Num
9	MotherEducation	MotherEducation	Num
10	MotherEthnicity1	MotherEthnicity1	Num
11	MotherEthnicity2	MotherEthnicity2	Num
12	MaritalStatus	MaritalStatus	Num
13	FathPartEdu	FathPartEdu	Num
14	FatherWorkStatus	FatherWorkStatus	Num
15	SmokedBefore	SmokedBefore	Char
16	NumSmokedBefore	NumSmokedBefore	Num
17	CurSmoking	CurSmoking	Char
18	NumCurSmoking	NumCurSmoking	Num
19	SmokingDelivery	SmokingDelivery	Char
20	NumSmokingDelivery	NumSmokingDelivery	Num
21	SecondHandExp	SecondHandExp	Char
22	AlcoholBefore	AlcoholBefore	Char
23	AlcoholIntakeBefore	AlcoholIntakeBefore	Char
24	AlcoholDuring	AlcoholDuring	Char
25	AlcoholIntakeDuring	AlcoholIntakeDuring	Char
26	PrePregMarijuanaa	PrePregMarijuanaa	Char
27	PregMarijuana	PregMarijuana	Char
28	PregMarijuanaIntake	PregMarijuanaIntake	Num
29	Substance1	Substance1	Num
30	Substance2	Substance2	Num
31	Substance3	Substance3	Num
32	Substance4	Substance4	Num

33	<b>FolicAcid</b>	FolicAcid	Char
34	<b>PregonContraception</b>	PregonContraception	Char
35	<b>MethodConception</b>	MethodConception	Num
36	<b>Gravida</b>	Gravida	Num
37	<b>Parity</b>	Parity	Num
38	<b>PrevTermBirths</b>	PrevTermBirths	Num
39	<b>PrevPretermBirths</b>	PrevPretermBirths	Num
40	<b>PrevSA</b>	PrevSA	Num
41	<b>PrevTA</b>	PrevTA	Num
42	<b>PrevSB</b>	PrevSB	Num
43	<b>PrevNND</b>	PrevNND	Num
44	<b>PrevCS</b>	PrevCS	Num
45	<b>AntenatalProvider</b>	AntenatalProvider	Num
46	<b>FirstAntenatalVisit</b>	FirstAntenatalVisit	Num
47	<b>IntentBreastfeed</b>	IntentBreastfeed	Char
48	<b>FirstUSDate</b>	FirstUSDate	Num
49	<b>EDDLMP</b>	EDDLMP	Num
50	<b>EDDUS</b>	EDDUS	Num
51	<b>Amniocentesis</b>	Amniocentesis	Char
52	<b>CVS</b>	CVS	Char
53	<b>MaternalSerumScreening</b>	MaternalSerumScreening	Num
54	<b>PreexistingDiabetes</b>	PreexistingDiabetes	Char
55	<b>PreexistingDiabInsulin</b>	PreexistingDiabInsulin	Char
56	<b>GestDiabetes</b>	GestDiabetes	Char
57	<b>GestDiabetesInsulin</b>	GestDiabetesInsulin	Char
58	<b>UTI</b>	UTI	Char
59	<b>Anemia</b>	Anemia	Char
60	<b>PreExistHypertension</b>	PreExistHypertension	Char
61	<b>GestHypertension</b>	GestHypertension	Char
62	<b>Preeclampsia</b>	Preeclampsia	Char
63	<b>GBSResults</b>	GBSResults	Num
64	<b>COVIDinPregnancy</b>	COVIDinPregnancy	Char
65	<b>COVIDVaccine</b>	COVIDVaccine	Char
66	<b>HeighCM</b>	HeighCM	Num
67	<b>HeighIN</b>	HeighIN	Num
68	<b>PrePregWtkg</b>	PrePregWtkg	Num
69	<b>PrePregWtlbs</b>	PrePregWtlbs	Num
70	<b>PreDelWtkg</b>	PreDelWtkg	Num
71	<b>PreDelWtlbs</b>	PreDelWtlbs	Num
72	<b>TypeLabour</b>	TypeLabour	Num
73	<b>IndicationInduction</b>	IndicationInduction	Num
74	<b>Oxytocin</b>	Oxytocin	Char

75	Prostaglandin	Prostaglandin	Char
76	RuptureDateTime	RuptureDateTime	Num
77	Spontaneous	Spontaneous	Char
78	ARMrupture	ARMrupture	Char
79	TocoliticsAdmin	TocoliticsAdmin	Char
80	AntenatalSteroids	AntenatalSteroids	Num
81	FHRMonitor	FHRMonitor	Num
82	CaregiverDel	CaregiverDel	Num
83	ModeDel1	ModeDel1	Char
84	ModeDel2	ModeDel2	Char
85	IndicationCS	IndicationCS	Num
86	VBACEligibility	VBACEligibility	Char
87	PROM	PROM	Num
88	PainManagement1	PainManagement1	Num
89	PainManagement2	PainManagement2	Num
90	PainManagement3	PainManagement3	Num
91	PainManagement4	PainManagement4	Num

### BabyID

BabyID

### PregOut1

Refers to pregnancy outcome.

Code	Description - English
1	Live birth
2	Fetal death > = 20 weeks gestation (stillbirth)
4	Unknown/ missing value

### PregOut2

Refers to pregnancy outcome.

Code	Description - English
1	Live birth
2	Fetal death > = 20 weeks gestation (stillbirth)
3	Fetal death < 20 weeks gestation (miscarriage, abortion)

### PregOut3

Refers to pregnancy outcome.

Code	Description - English
1	Live birth
2	Fetal death > = 20 weeks gestation (stillbirth)

### TermPregCA

Term pregnancy.

Code	Description - English
N	No
U	Unknown
Y	Yes

### NumBaby

Number of babies at birth or term.

Code	Description - English
1	Singleton
2	Twins
3	Triplets
7	Unknown

### WorkStatus

Refers to mother's work status.

Code	Description - English
1	Refers to mother's work status
2	No (Home, student, social assistance or volunteer/unemployed)
3	Part time (less than or equal to 28h per week)
4	Full time (greater than 28h per week)
5	Unknown

### MotherEducation

Refers to mother's education.

Code	Description - English
1	Without High School Diploma
2	High School with Diploma
3	Current post-secondary (includes working on college or university completion)
4	College or Trade Certification
5	University with a degree
9	Unknown

### MotherEthnicity1

Refers to mother's ethnicity and/or racial background.

This will help to determine congenital anomalies related to certain population of interest.

Code	Description - English
1	
2	African-Descent



3	Asian
4	Caucasian
5	First Nations
6	Hispanic
7	Jewish
8	Mediterranean
9	Middle Eastern
10	Other
11	Unknown
12	French Canadian
13	African-Descent

### **MotherEthnicity2**

Refers to mother's ethnicity and/or racial background. This will help to determine congenital anomalies related to certain population of interest.

<b>Code</b>	<b>Description - English</b>
2	African-Descent
3	Asian
4	Caucasian
5	First Nations
6	Hispanic
7	Jewish
8	Mediterranean
9	Middle Eastern
10	
11	Other
12	Unknown
13	French Canadian

### **MaritalStatus**

Refers to the mother's marital status.

<b>Code</b>	<b>Description - English</b>
1	Single
2	Married
3	Widowed
4	Divorced
5	Separated
6	Common Law
9	Unknown

### FathPartEdu

Refers to fathers' education.

Code	Description - English
1	Without High School Diploma
2	High School with Diploma
3	Current post-secondary (includes working on college or university completion)
4	College or Trade Certification
5	Without High School Diploma
9	

### FatherWorkStatus

Refers to fathers' work status.

Code	Description - English
1	No (Home, student, social assistance or volunteer/unemployed)
2	Part time (less than or equal to 28h per week)
3	Full time (greater than 28h per week)
4	Unknown
5	Employed, not indicated whether full time or part time

### SmokedBefore

Refers to smoking prior to pregnancy.

Code	Description - English
N	No
U	Unknown
Y	Yes

### NumSmokedBefore

Refers to number of cigarettes smoked per day prior to pregnancy.

### CurSmoking

Refers to smoking at any time during the prenatal period.

Code	Description - English
N	No
U	Unknown
Y	Yes

### NumCurSmoking

Refers to number of cigarettes smoked per day.

### SmokingDelivery

Refers to smoking at time of admission to hospital for delivery.

Code	Description - English
N	No
U	Unknown
Y	Yes

### NumSmokingDelivery

Refers to number of cigarettes smoked per day.

### SecondHandExp

Refers to exposure to secondhand smoke during pregnancy. This includes if the mother is living with a smoker who smokes inside the house, or in a vehicle. This excludes smoking inside the garage, whether attached or detached, or smoking outside.

Code	Description - English
N	No
U	Unknown
Y	Yes

### AlcoholBefore

Refers to use of alcohol before pregnancy or before knowing she is pregnant.

Code	Description - English
N	No
U	Unknown
Y	Yes

### AlcoholIntakeBefore

Refers to the maximum alcoholic drinks prior to pregnancy.

Code	Description - English
0	No drinks
1	1 drink / per day
2	2 drinks / per day
3	3 drinks / per day
4	4 + drinks / per day
5	1 - 2 drinks / per week
6	3 - 4 drinks / per week
7	1 - 2 drinks / per month
8	3 - 4 drinks / per month
9	Other
10	Unknown
U	No drinks

### AlcoholDuring

Refers to use of alcohol during pregnancy. After the patient knew she is pregnant, did she consume any alcohol.

Code	Description - English
N	No
U	Unknown
Y	Yes

### AlcoholIntakeDuring

Refers to the maximum alcoholic drinks during pregnancy.

Code	Description - English
0	No drinks
1	1 drink / per day
2	2 drinks / per day
3	3 drinks / per day
4	4 + drinks / per day
5	1 - 2 drinks / per week
6	3 - 4 drinks / per week
7	1 - 2 drinks / per month
8	3 - 4 drinks / per month
10	Other
U	Unknown

### PrePregMarijuanaa

Refers to Marijuana use prior to pregnancy.

Code	Description - English
N	No
U	Unknown
Y	Yes

### PregMarijuana

Refers to Marijuana use during pregnancy.

Code	Description - English
N	No
U	Unknown
Y	Yes

### PregMarijuanaIntake

Refers to the amount of marijuana consumed by usage.

Code	Description - English
1	No usage

2	1 use / per day
3	2 uses / per day
4	3 uses / per day
5	4 + uses / per day
6	1 - 2 uses / per week
7	3 - 4 uses / per week
8	1 - 2 uses / per month
9	3 - 4 uses / per month
10	Other
11	Unknown

### Substance1

Refers to any substance use during pregnancy (Up to 6 different substances can be entered in 3M).

Code	Description - English
1	
2	
3	
4	Methadone
5	Solvents
6	Other
7	Unknown
8	None
9	Opiates
10	Vaping

### Substance2

Refers to any substance use during pregnancy (Up to 6 different substances can be entered in 3M).

Code	Description - English
1	
2	
3	
4	Methadone
5	Solvents
6	Other
7	Unknown
8	None
9	Opiates
10	Vaping

### Substance3

Refers to any substance use during pregnancy (Up to 6 different substances can be entered in 3M).

Code	Description - English
1	
2	
3	
4	Methadone
5	Solvents
6	Other
7	Unknown
8	None
9	Opiates

### Substance4

Refers to any substance use during pregnancy (Up to 6 different substances can be entered in 3M).

Code	Description - English
4	Methadone
6	Other

### FolicAcid

Refers to consumption of preconceptual folic acid.

Code	Description - English
N	No
U	Unknown
Y	Yes

### PregonContraception

Refers to if patient became pregnant while taking a contraceptive.

Code	Description - English
N	No
U	Unknown
Y	Yes

### MethodConception

Refers to how the pregnancy was achieved.

Code	Description - English
1	Spontaneous
2	OI
3	IUI – Inter Uterine Insemination

<b>4</b>	IVF – Invitro Fertilization
<b>5</b>	ICSI
<b>6</b>	Unknown

### Gravida

The total number of times the patient has been pregnant, including this pregnancy. Multiples are counted as one.

<b>Code</b>	<b>Description - English</b>
<b>0</b>	
<b>1</b>	1
<b>2</b>	2
<b>3</b>	3
<b>4</b>	4
<b>5</b>	5
<b>6</b>	6
<b>7</b>	7
<b>8</b>	8
<b>9</b>	9
<b>10</b>	10
<b>11</b>	11
<b>12</b>	12
<b>13</b>	13
<b>14</b>	14
<b>15</b>	15
<b>16</b>	16
<b>17</b>	17
<b>19</b>	19
<b>20</b>	20
<b>36</b>	36
<b>41</b>	41
<b>43</b>	43
<b>83</b>	83
<b>99</b>	Unknown

### Parity

The number of pregnancies, excluding the present pregnancy, which resulted in one or more infants > 20 weeks gestation (regardless of whether the infants were stillborn, died after birth or lived). Multiples are counted as one.

<b>Code</b>	<b>Description - English</b>
<b>0</b>	
<b>1</b>	1
<b>2</b>	2

3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
14	14
99	Unknown

### PrevTermBirths

Refers to a infant who is born at 37 weeks gestation or more. Multiple births delivered during the same episode count as one delivery.

Code	Description - English
0	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
99	Unknown

### PrevPretermBirths

Refers to an infant who is born between 20 - 36 completed weeks Multiple births delivered during the same episode count as one delivery.

Code	Description - English
0	
1	1
2	2
3	3
4	4
9	9



99

Unknown

### PrevSA

Number of prior pregnancies ending in a spontaneous abortion prior to 20 weeks gestation. This includes missed abortions, miscarriages, ectopic pregnancies, any termination of a non-viable fetus.

Code	Description - English
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
13	13
16	16
17	17
99	Unknown

### PrevTA

Number of prior pregnancies ending in a therapeutic abortion. Number of previous therapeutic abortions. This includes unwanted pregnancies and terminations of pregnancies.

Code	Description - English
1	1
2	2
3	3
4	4
5	5
10	10
99	Unknown

### PrevSB

A fetus > 20 weeks gestation in which there is no breathing, beating of the heart, pulsation of the umbilical cord or no signs of life.

Code	Description - English
0	0

1	1
2	2

### PrevNND

Death which occurs during the first 28 completed days of life.

Code	Description - English
0	0
1	1
2	2
99	Unknown

### PrevCS

Number of previous C-sections.

Code	Description - English
0	0
1	1
2	2
3	3
4	4
5	5
99	Unknown

### AntenatalProvider

Refers to the individual most responsible for antenatal care.

Code	Description - English
1	
2	Obstetrician
3	
4	Midwife
5	Other MD (Includes Residents/interns)
6	Registered Nurse
8	No Antenatal care
9	Unknown
10	Family practice physician/ General Practitioner
11	Nurse Practitioner

### FirstAntenatalVisit

Refers to the first prenatal visit with a healthcare provider.

### IntentBreastfeed

Refers to if the woman intends to breastfeed on admission and/or before delivery.

Code	Description - English
N	No
U	Unknown
Y	Yes

### FirstUSDate

Date of first Ultrasound.

### EDDLMP

Estimated delivery date according to last menstrual period (LMP).

### EDDUS

Estimated delivery date according to Ultrasound.

### Amniocentesis

Refers to whether or nor Amniocentesis was performed.

Code	Description - English
N	No
U	Unknown
Y	Yes

### CVS

Refers to if the woman had a chorionic villus sampling.

Code	Description - English
N	No
U	Unknown
Y	Yes

### MaternalSerumScreening

Refers to if the woman accepted or declined the MSS testing. Also known as QUAD screening, Prenatal Screening, Maternal Screening, Trisomy Screening.

Code	Description - English
1	Y- Accepted
2	N-Declined
3	U-Unknown

### PreexistingDiabetes

Refers to if the woman had Diabetes prior to pregnancy.

Code	Description - English
------	-----------------------

<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### PreexistingDiabInsulin

Refers to if the woman used Insulin prior to pregnancy.

<b>Code</b>	<b>Description - English</b>
<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### GestDiabetes

Refers to diabetes related to pregnancy.

<b>Code</b>	<b>Description - English</b>
<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### GestDiabetesInsulin

Refers to the need of insulin during pregnancy.

<b>Code</b>	<b>Description - English</b>
<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### UTI

Refers to a UTI that was or is present during the current pregnancy.

<b>Code</b>	<b>Description - English</b>
<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### Anemia

If the condition was or is present at any time point during the current pregnancy.

<b>Code</b>	<b>Description - English</b>
<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### PreExistHypertension

Refers to high blood pressure that was present before the pregnancy.

Code	Description – English
N	No
U	Unknown
Y	Yes

### GestHypertension

Refers to pregnancy induced high blood pressure.

Code	Description - English
N	No
U	Unknown
Y	Yes

### Preeclampsia

Refers to high blood pressure in pregnant woman with protein in urine.

Code	Description - English
N	No
U	Unknown
Y	Yes

### GBSResults

Refers to if the patient is Strep B positive, negative or if they declined testing.

Code	Description - English
1	Positive
2	Negative
3	Declined
9	Unknown

### COVIDinPregnancy

If the condition was or is present at any time point during the current pregnancy.

Code	Description - English
N	No
U	Unknown
Y	Yes

### COVIDVaccine

Refers to the patient receiving the Covid-19 vaccination.

Code	Description - English
N	No
U	Unknown
Y	Yes

### HeighCM

Refers to the mother's height in centimetres.

### HeighIN

Refers to the mother's height in inches.

### PrePregWtkg

Refers to the mother's pre-pregnancy weight in kgs.

### PrePregWtlbs

Refers to the mother's pre-pregnancy weight in pounds.

### PreDelWtkg

Refers to mother's weight just before delivery in kilograms.

### PreDelWtlbs

Refers to mother's weight just before delivery in pounds.

### TypeLabour

Type of Labour.

Code	Description - English
1	Spontaneous
2	Induced
3	No Labour

### IndicationInduction

Refers to the reason why the woman was induced.

Code	Description - English
1	Post dates
2	SROM (spontaneous rupture of membranes)
3	Decreased Amniotic Fluid
4	Hypertension - PIH (Pregnancy induced hypertension)
5	IDDM/ GDM (Diabetes)
6	IUGR / No growth
7	Twin/ Multiples
8	PUPP/ Cholestatic Jaundice
9	Thrombocytopenia
10	Previous stillbirth/ poor OBS History
13	Macrosomia
15	Social/Geographic
16	Other
17	No indications given
18	Eclampsia / Preeclampsia

19	Positive Group B Strep with Rupture of Membranes
20	Intrauterine Death
21	Fetal Anomaly
22	Low planning Score/ Fetal Distress
23	Previous Fetal Death
24	Advanced Maternal Age
25	Vaginal Bleeding/ Abruption
26	Polyhydramnios
27	History of Precipitate labour
28	Isoimmunisation
29	PROM with Chorioamnionitis
30	PROM without Chorioamnionitis

### Oxytocin

Refers to if the woman was given IV oxytocin to induce labour.

Code	Description - English
N	No
U	Unknown
Y	Yes

### Prostaglandin

Refers to if the woman was given intra-vaginal/intra-cervical.

Code	Description - English
N	No
U	Unknown
Y	Yes

### RuptureDateTime

Rupture Date & Time.

### Spontaneous

Refers to if the rupture of membranes was spontaneous.

Code	Description - English
N	No
U	Unknown
Y	Yes

### ARMrupture

Refers to if the membranes were artificially ruptured.

Code	Description - English
N	No

<b>U</b>	Unknown
<b>Y</b>	Yes

### TocoliticsAdmin

Refers to medication used to suppress premature labour.

<b>Code</b>	<b>Description - English</b>
<b>N</b>	No
<b>U</b>	Unknown
<b>Y</b>	Yes

### AntenatalSteroids

Refers to any prenatal steroids given to women at risk of a premature birth.

<b>Code</b>	<b>Description - English</b>
<b>1</b>	One complete course
<b>2</b>	One incomplete course
<b>3</b>	None

### FHRMonitor

Refers to the method of fetal surveillance used during monitoring of the labour.

<b>Code</b>	<b>Description - English</b>
<b>1</b>	
<b>2</b>	
<b>3</b>	
<b>4</b>	Intermittent Auscultation (IA)
<b>5</b>	Continuous External Monitoring
<b>6</b>	Continuous Internal Monitoring

### CaregiverDel

Refers to the healthcare provider most responsible for the woman's care at delivery.

<b>Code</b>	<b>Description - English</b>
<b>1</b>	
<b>2</b>	Obstetrician
<b>3</b>	
<b>4</b>	Midwife
<b>5</b>	Other (Includes Interns/Residents)
<b>6</b>	Registered Nurse
<b>9</b>	Unknown
<b>10</b>	Family practice physician/ General Practitioner
<b>11</b>	Nurse Practitioner
<b>12</b>	No Caregiver at Delivery



### ModeDel1

Refers to the mode of delivery used to deliver the baby(ies).

Code	Description - English
ABD	C-section combined transverse and vertical incision-inverted T / J incision
CSC	C-section / hysterectomy
CSH	C-section, low segment transverse incision
CST	C-section, classical incision (vertical incision in the body of the uterus)
CSU	C-section, type unknown
CSV	C-section, vertical incision
CWI	Vaginal
LVS	Vaginal with instrumentation
VAG	C-section with instrumentation
VAG-INST	C-section combined transverse and vertical incision-inverted T / J incision

### ModeDel2

Refers to the mode of delivery used to deliver the baby(ies).

Code	Description - English
CSC	C-section / hysterectomy
CSH	C-section, low segment transverse incision
CST	C-section, classical incision (vertical incision in the body of the uterus)
CWI	Vaginal
VAG	C-section with instrumentation
VAG-INST	C-section combined transverse and vertical incision-inverted T / J incision

### IndicationCS

Refers to the reason why the patient received a caesarean.

Code	Description - English
1	Advanced Maternal Age
2	Abruptio placenta
3	Breech
4	Transverse lie
5	Diabetes
6	Dystocia (includes Cephalopelvic disproportion, cervical stenosis)
7	Failed Induction
8	Failure to progress
9	Fetal Distress
10	Fetal Growth restriction
12	HIV
13	Maternal herpes simplex infection

15	Hypertensive disorders
16	Isoimmunization
17	Macrosomia suspected
18	Maternal choice (excludes due to previous c-section)
19	Maternal Exhaustion
20	Malpresentation (excluded breech and transverse lie)
21	Multiple pregnancy
22	Other Obstetrical conditions
23	Other Fetal conditions
24	Previous c-section
25	Prolapse cord
26	Placenta Previa
27	Previous traumatic delivery ( 3rd + 4th degree tear)
28	Prolonged ruptured of membranes >18hr
29	Prolonged ruptured of membranes >24hr
30	Fetal anomaly
31	Suspected/imminent uterine rupture
33	Diseases of the cervix
99	Uterine surgery

### VBACEligibility

Refers to if patient is eligible for a VBAC (vaginal birth after caesarean).

Code	Description - English
N	No
U	Unknown
Y	Yes

### PROM

Refers to Premature Rupture of Membranes.

Code	Description - English
1	
2	
3	

### PainManagement1

Refers to any anesthesia given to the woman for pain management during the total phase of labour and delivery (up to a maximum of 4 different pain management methods can be selected).

Code	Description - English
1	None
2	Local
3	Pudendal

4	Entonox
5	Epidural
6	Spinal
7	General
8	Narcotics (includes Fentanyl/Versed)
9	Other

### PainManagement2

Refers to any anesthesia given to the woman for pain management during the total phase of labour and delivery (up to a maximum of 4 different pain management methods can be selected).

Code	Description - English
1	None
2	Local
3	Pudendal
4	Entonox
5	Epidural
6	Spinal
7	General
8	Narcotics (includes Fentanyl/Versed)
9	Other

### PainManagement3

Refers to any anesthesia given to the woman for pain management during the total phase of labour and delivery (up to a maximum of 4 different pain management methods can be selected).

Code	Description - English
1	None
2	Local
3	Pudendal
4	Entonox
5	Epidural
6	Spinal
7	General
8	Narcotics (includes Fentanyl/Versed)
9	Other

### PainManagement4

Refers to any anesthesia given to the woman for pain management during the total phase of labour and delivery (up to a maximum of 4 different pain management methods can be selected).

Code	Description - English
------	-----------------------

1	None
2	Local
3	Pudendal
4	Entonox
5	Epidural
6	Spinal
7	General
8	Narcotics (includes Fentanyl/Versed)
9	Other

### Newborn Data

#	Name	Label	Type
1	BabyID	BabyID	Char
2	MaternalID	MaternalID	Char
3	PresentationFetus	PresentationFetus	Num
4	PlaceBirth	PlaceBirth	Num
5	GestationalAge	GestationalAge	Num
6	GestationalMethod	GestationalMethod	Num
7	NeonatalAssessment	NeonatalAssessment	Num
8	BirthLength	BirthLength	Num
9	HeadCircum	HeadCircum	Num
10	Apgar1min	Apgar1min	Num
11	Apgar5min	Apgar5min	Num
12	ResuscitateBagMask	ResuscitateBagMask	Char
13	AdmSCU	AdmSCU	Char
14	NeoWithdrawalPres	NeoWithdrawalPres	Char
15	WithdrawalTreat	WithdrawalTreat	Num
16	Proj400Field1	Proj400Field1	Num
17	Proj400Field2	Proj400Field2	Num
18	Proj400Field3	Proj400Field3	Num
19	Proj400Field3a4	Proj400Field3a4	Num
20	Proj400Field5	Proj400Field5	Num

### BabyID

BabyID

### MaternalID

MaternalID

### PresentationFetus

Refers to presentation of the fetus.

Code	Description - English
1	Breech
2	Brow

3	Compound presentation
4	Face
5	Frank breech
6	Footling breech
7	Persistent occiput posterior ( ROP,LOP, OP)
8	Shoulder presentation
9	Vertex (Cephalic, LOA, ROA, OT ,ROT, LOT, OA, Transverse)
99	Unknown

### PlaceBirth

Refers to the place of birth the baby was born.

Code	Description - English
1	Clinic/Doctors office
2	Free Standing Birth Center
3	Hospital
4	In transport
5	Other
6	Residence

### GestationalAge

Gestational age.

### GestationalMethod

Refers to what method was used to determine the Estimated Date of Delivery (EDD).

Code	Description - English
1	Last Menstrual Period
2	Ultrasound
3	Artificial Insemination
4	Unknown

### NeonatalAssessment

Neonatal Assessment.

### BirthLength

Birth Length in centimeters.

### HeadCircum

This refers to the birth head circumference in centimeters.

### Apgar1min

Apgar score (1min).

Code	Description - English
------	-----------------------

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
99	Unknown

### Apgar5min

Apgar score (5min).

Code	Description - English
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
99	Unknown

### ResuscitateBagMask

This includes ventilation with bag and mask, CPAP, or any non-invasive PPV (Positive Pressure Ventilation).

Code	Description - English
Y	Yes
N	No
U	Unknown

### AdmSCU

AdmSCU

Code	Description - English
N	No

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Y Yes

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### NeoWithdrawalPres

Neonatal withdrawal presentation.

Code	Description - English
Y	Yes
N	No
U	Unknown

### WithdrawalTreat

Withdrawal treatment.

Code	Description - English
1	Medication
2	Medication and Non-Pharm care
3	Non-Pharm Care
4	None
5	Unknown

### Proj400Field1

Was the baby placed in UNINTERRUPTED skin to skin contact IMMEDIATELY after birth for at LEAST 1 HOUR with his or her MOTHER?

Code	Description - English
1	Yes
2	No
3	The infant was not born in this facility

### Proj400Field2

Did the newborn receive any breastmilk during the hospital stay?

Code	Description - English
1	Yes
2	No
3	The infant was not fed in this facility - transferred to another facility or neonatal death (if 3 is selected, questions 3, 4 and 5 are left blank)

### Proj400Field3

What did the newborn receive FROM BIRTH TO DISCHARGE/TRANSFER from your hospital?

Code	Description - English
1	Breastmilk only
2	Breastmilk and other liquid(s)
3	Infant formula only (if infant formula only, question 4 is left blank)

### Proj400Field3a4

Was the newborn still receiving breastmilk at discharge/transfer?

Code	Description - English
1	Yes
2	No

### Proj400Field5

Did the newborn/mother have any of the following medical conditions?

Newborn Conditions

- Birth weight less than 1500g
- Gestational age less than 32 weeks
- Hypoglycemia due to impaired metabolic adaptation or increased glucose demand
- Significant weight loss in presence of clinical indicators
- Clinical indication of insufficient milk intake
- Metabolic disorder

Maternal Conditions

- Severe illness (e.g. sepsis)
- HIV positive test results
- Herpes simplex virus type 1 with lesions on the breast
- Maternal medications that are a contraindication to breastfeed

Code	Description - English
1	Yes
2	No`

### Abortion Data

#	Name	Label	Type
1	MaternalID	MaternalID	Char
2	BabyID	BabyID	Char
3	PregOut1	PregOut1	Num
4	PregOut2	PregOut2	Char
5	TermPregCA	TermPregCA	Char
6	NumBaby	NumBaby	Num

### MaternalID

MaternalID.

### BabyID

BabyID.

### PregOut1

Refers to pregnancy outcome.

Code	Description - English
1	Live birth



2	Fetal death > = 20 weeks gestation (stillbirth)
3	Fetal death < 20 weeks gestation (miscarriage, abortion)
4	Unknown/ missing value

### PregOut2

Refers to pregnancy outcome.

### TermPregCA

Termination of pregnancy.

Code	Description - English
N	No
U	Unknown
Y	Yes

### NumBaby

NumBaby.

Code	Description - English
1	Single
2	Twins
7	Unknown

### Stillbirth Data

#	Name	Label	Type
1	StillbirthID	StillbirthID	Char
2	MaternalID	MaternalID	Char
3	Stillborn	Stillborn	Num

### StillbirthID

StillbirthID

### MaternalID

MaternalID

### Stillborn

Stillborn type.

Code	Description - English
1	Death before Labour onset
2	Death during Delivery/Labour
4	

## Document History

Version	Author	Nature of Change	Date
1.0	NB-IRDT Staff	Creation of Document	October 2023
Approved by		Approval Date	Review Date
NB-IRDT Staff		October 2023	