

Perinatal Health Report Interior Health

2019/20

Publication Information

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General Notes

This report is based on delivery, postpartum transfer/readmission, newborn, and newborn transfer/readmission records submitted to Perinatal Services BC's British Columbia Perinatal Data Registry (BCPDR). The registry captures >99% of deliveries and births that occur in the province.

Records used to generate this report meet the following conditions:

- Mother delivery and baby newborn records must be linked. Unlinked mother delivery or newborn records are exicluded (<0.2% of babies are not linked to a mother).
- Complete late terminations are excluded from all indicators except the Crude Stillbirth Rate; pregnancies involving selective fetal reduction are retained.
- Mother's delivery record has a discharge date between April 1, 2015 and March 31, 2020.
- Fiscal years begin on April 1 and end on March 31 of the following year. Fiscal year is based on the mother's discharge date from the delivery admission.
- Resident Health Authority was derived by linking the postal code on the mother's delivery record with the September 2016 version of BC Stats' Geocoding Self Service translation file.
- Rates with numerators of 1-4 cases are not reported (NR).

Terms used in the Perinatal Health Report (see specifications on pages 98 and 99) <u>Delivery Admission¹</u>

- Record of care provided between admission to acute care and discharge from acute care for delivery of a baby. Woman can be discharged to home or to another hospital. OR
- Record of care provided by a registered midwife for deliveries at home.

Delivery Episode of Care

• Total time woman spent in one or more hospitals, beginning from admission to hospital for delivery of a baby. Includes the Delivery Admission and all acute care episodes captured in the BCPDR where the woman was discharged from one hospital and admitted directly to a different hospital.

Maternal Admission

• Any record of maternal care received by the BCPDR. Includes deliveries at home attended by a registered midwife, admissions to acute care for delivery, and postpartum readmissions or transfers within 42 days of delivery.

¹NOTE: Until March 31, 2014, if a woman who delivered at home with a registered midwife was admitted to acute care within 24 hours of delivery, the acute care admission was her Delivery Admission and the transfer was not recorded. Effective April 1, 2014, all deliveries at home with a registered midwife have home as the location of the Delivery Admission. All admissions to acute care within 42 days, including those within 24 hours of delivery, are counted as Post-Delivery Admissions.

Post-Delivery Admission¹

• Any record of post-delivery maternal care received by the BCPDR. Includes acute care episodes that are transfers from another hospital and admissions from home, up to 42 days after delivery.

Birth Admission¹

- Record of care provided between baby's birth and discharge from acute care after birth. Baby can be discharged home or to another hospital. OR
- Record of care provided by a registered midwife for births at home.

Birth Episode of Care

• Total time baby spent in hospital between birth and discharge home. Includes the Birth Admission and all acute care episodes captured in the BCPDR where baby was discharged from one hospital and admitted directly to a different hospital.

Baby Admission

• Any record of baby care received by the BCPDR. Includes births at home attended by a registered midwife, admissions to acute care from birth, neonatal readmissions or transfers before 28 days of age, and continuous episodes of care (never discharged to home) from birth up to one year of age.

Post-Neonatal Admission¹

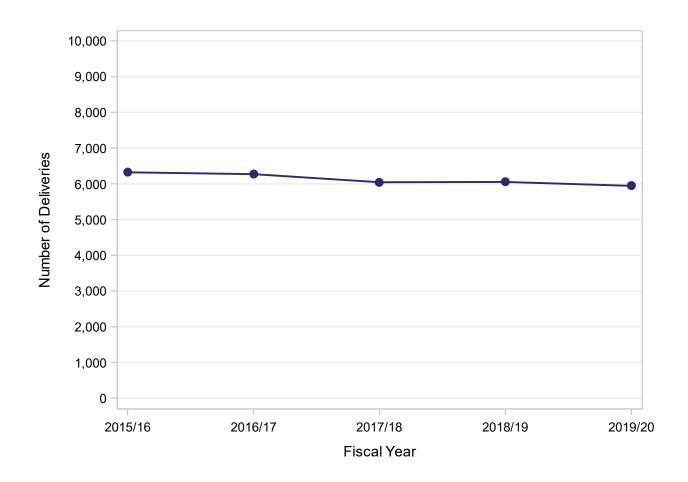
• Any record of post-birth baby care received by the BCPDR. Includes acute care episodes that are transfers from another hospital and admissions from home, up to 28 days after birth.

¹NOTE: Until March 31, 2014, if a woman who delivered at home with a registered midwife was admitted to acute care within 24 hours of delivery, the acute care admission was her Delivery Admission and the transfer was not recorded. Effective April 1, 2014, all deliveries at home with a registered midwife have home as the location of the Delivery Admission. All admissions to acute care within 42 days, including those within 24 hours of delivery, are counted as Post-Delivery Admissions.

Perinatal Health Report 2015/16 to 2019/20 Interior Health

Section 1: Maternal Health

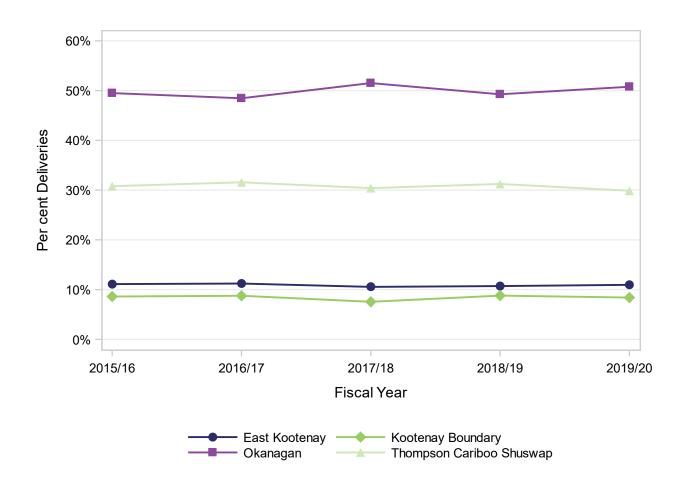
Total Deliveries Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|-----------------|-------------|---------|---------|---------|---------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Interior Health | 6,321 | 6,269 | 6,043 | 6,051 | 5,942 | | |

Definitions and specifications begin on Page 84 of this document.

Deliveries by Facility Health Service Delivery Area Deliveries in Interior Health: April 1, 2015 - March 31, 2020

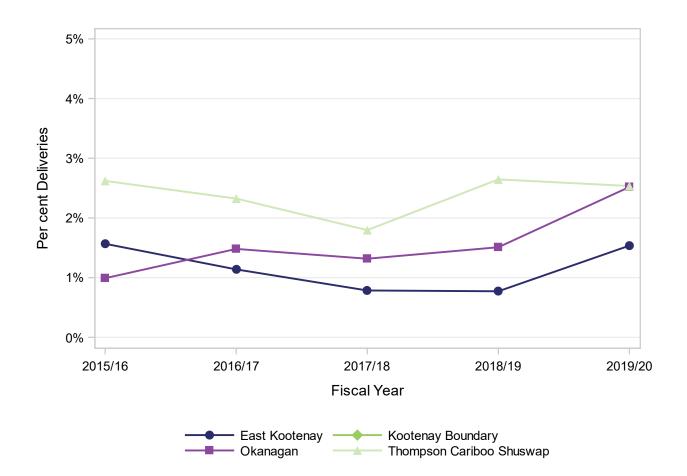


| | | Fiscal Year | | | | | | | | |
|---|-------|-------------|-------|----------|---------|----------|---------|----------|-------|----------|
| | 201 | 5/16 | 201 | 6/17 | 2017/18 | | 2018/19 | | 201 | 9/20 |
| Facility Health Service Delivery Area | Count | Per cent | Count | Per cent | Count | Per cent | Count | Per cent | Count | Per cent |
| East Kootenay | 702 | 11.1% | 703 | 11.2% | 637 | 10.5% | 648 | 10.7% | 651 | 11.0% |
| Kootenay Boundary | 544 | 8.6% | 549 | 8.8% | 456 | 7.5% | 532 | 8.8% | 499 | 8.4% |
| Okanagan | 3,129 | 49.5% | 3,038 | 48.5% | 3,113 | 51.5% | 2,981 | 49.3% | 3,017 | 50.8% |
| Thompson Cariboo Shuswap | 1,946 | 30.8% | 1,979 | 31.6% | 1,837 | 30.4% | 1,890 | 31.2% | 1,775 | 29.9% |

Definitions and specifications begin on Page 84 of this document.

Deliveries to Residents of Other Health Authorities

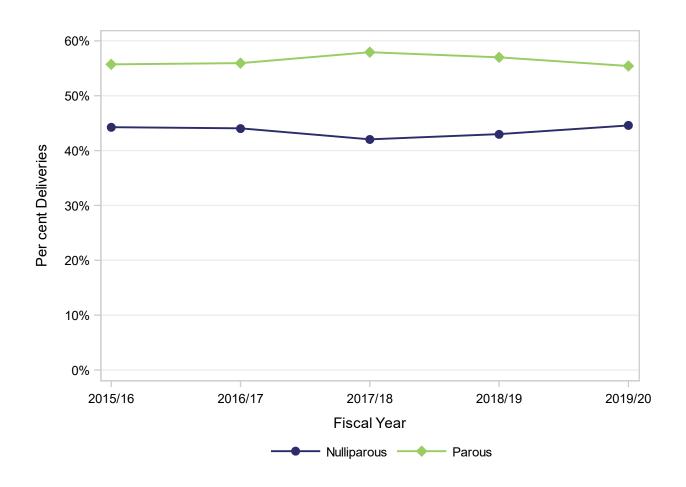
Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | |
|---------------------------------------|-------------|---------|---------|---------|---------|--|--|--|
| Facility Health Service Delivery Area | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| East Kootenay | 1.6% | 1.1% | 0.8% | 0.8% | 1.5% | | | |
| Kootenay Boundary | NR | NR | NR | NR | NR | | | |
| Okanagan | 1.0% | 1.5% | 1.3% | 1.5% | 2.5% | | | |
| Thompson Cariboo Shuswap | 2.6% | 2.3% | 1.8% | 2.6% | 2.5% | | | |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Deliveries by Parity Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Average and Median Maternal Age at Delivery by Parity

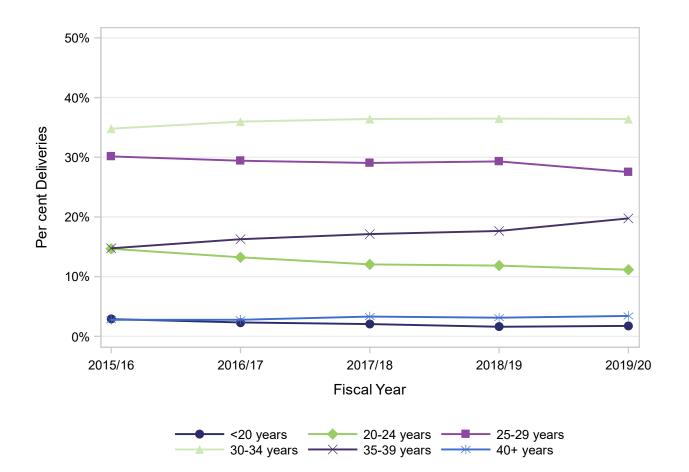
| | Fiscal Year | | | | | | | | | |
|-------------|-------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | 2015/16 | | 2016 | /17 | 2017 | /18 | 2018 | /19 | 2019 | /20 |
| Parity | Average | Median | Average | Median | Average | Median | Average | Median | Average | Median |
| All | 30.1 | 30.2 | 30.4 | 30.5 | 30.7 | 30.9 | 30.8 | 30.9 | 31.0 | 31.15 |
| Nulliparous | 28.6 | 28.8 | 29.0 | 29.1 | 29.1 | 29.3 | 29.6 | 29.8 | 29.6 | 29.8 |
| Parous | 31.2 | 31.4 | 31.5 | 31.7 | 31.8 | 32.0 | 31.7 | 31.9 | 32.1 | 32.2 |

Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 1: Maternal Health.

Maternal Age at Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020

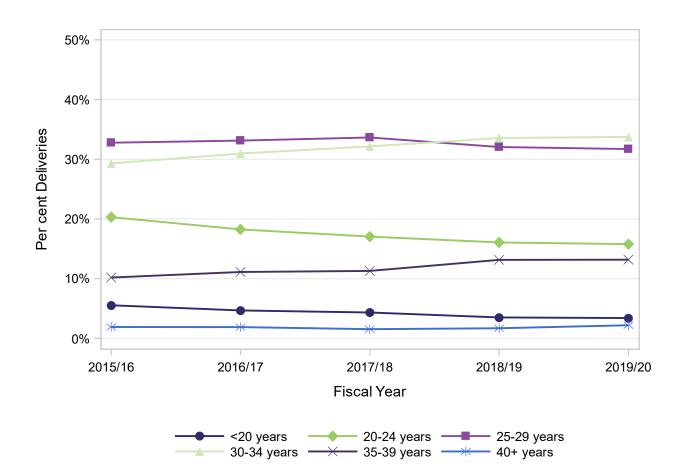


| | Fiscal Year | | | | | |
|--------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| <20 years | 2.9% | 2.3% | 2.1% | 1.6% | 1.8% | |
| 20-24 years | 14.7% | 13.2% | 12.0% | 11.8% | 11.2% | |
| 25-29 years | 30.1% | 29.4% | 29.0% | 29.3% | 27.5% | |
| 30-34 years | 34.8% | 36.0% | 36.4% | 36.5% | 36.4% | |
| 35-39 years | 14.7% | 16.3% | 17.1% | 17.6% | 19.8% | |
| 40+ years | 2.8% | 2.8% | 3.3% | 3.1% | 3.4% | |

Definitions and specifications begin on Page 84 of this document.

Maternal Age at Delivery

Nulliparous Women Deliveries in Interior Health: April 1, 2015 - March 31, 2020



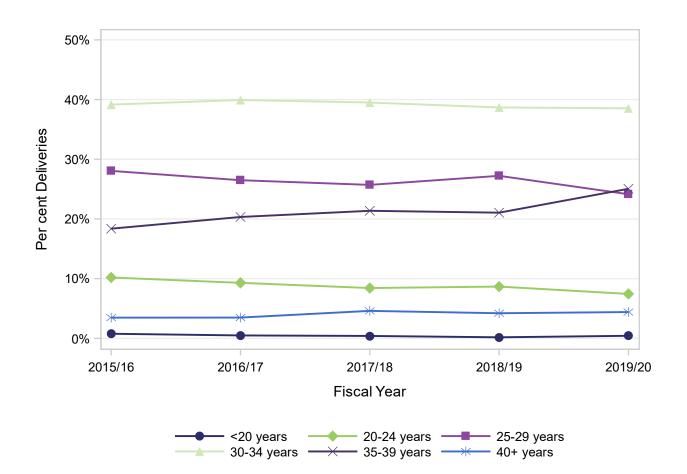
| | Fiscal Year | | | | | |
|--------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| <20 years | 5.5% | 4.7% | 4.3% | 3.5% | 3.4% | |
| 20-24 years | 20.3% | 18.2% | 17.0% | 16.1% | 15.8% | |
| 25-29 years | 32.8% | 33.1% | 33.6% | 32.1% | 31.7% | |
| 30-34 years | 29.3% | 31.0% | 32.2% | 33.6% | 33.7% | |
| 35-39 years | 10.2% | 11.1% | 11.3% | 13.1% | 13.2% | |
| 40+ years | 1.9% | 1.9% | 1.5% | 1.7% | 2.2% | |

Definitions and specifications begin on Page 84 of this document.

Maternal Age at Delivery

Parous Women

Deliveries in Interior Health: April 1, 2015 - March 31, 2020



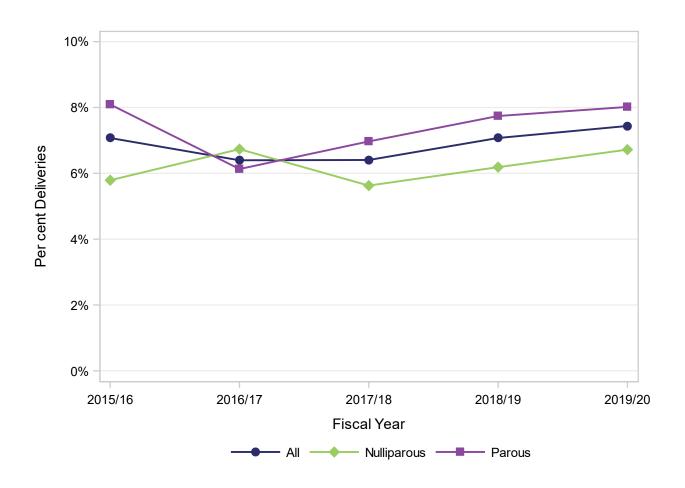
| | Fiscal Year | | | | | |
|--------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| <20 years | 0.8% | 0.5% | 0.4% | 0.2% | 0.4% | |
| 20-24 years | 10.2% | 9.3% | 8.4% | 8.7% | 7.4% | |
| 25-29 years | 28.1% | 26.5% | 25.7% | 27.2% | 24.1% | |
| 30-34 years | 39.2% | 39.9% | 39.5% | 38.7% | 38.5% | |
| 35-39 years | 18.4% | 20.3% | 21.4% | 21.0% | 25.1% | |
| 40+ years | 3.5% | 3.5% | 4.6% | 4.2% | 4.4% | |

Definitions and specifications begin on Page 84 of this document.

Antenatal Care Visits

Deliveries in Interior Health: April 1, 2015 - March 31, 2020

Deliveries with <5 Antenatal Care Visits by Parity

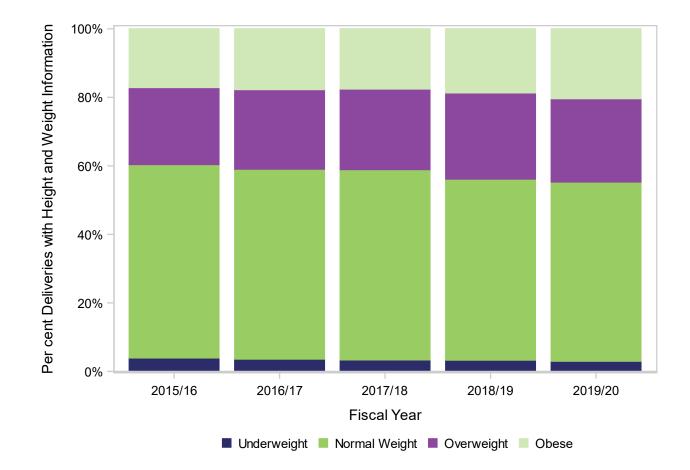


Deliveries with <5 Antenatal Care Visits or Missing Number of Visits

| | Fiscal Year | | | | | | | |
|----------------|-------------|---------|---------|---------|---------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| <5 Visits | 7.1% | 6.4% | 6.4% | 7.1% | 7.4% | | | |
| Missing Visits | 3.3% | 3.4% | 7.8% | 7.2% | 5.9% | | | |

Definitions and specifications begin on Page 84 of this document.

Pre-Pregnancy Body Mass Index (BMI) Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Distribution of Pre-Pregnancy BMI Among Deliveries With COMPLETE Height and Weight

Distribution of Pre-Pregnancy BMI Among ALL Deliveries

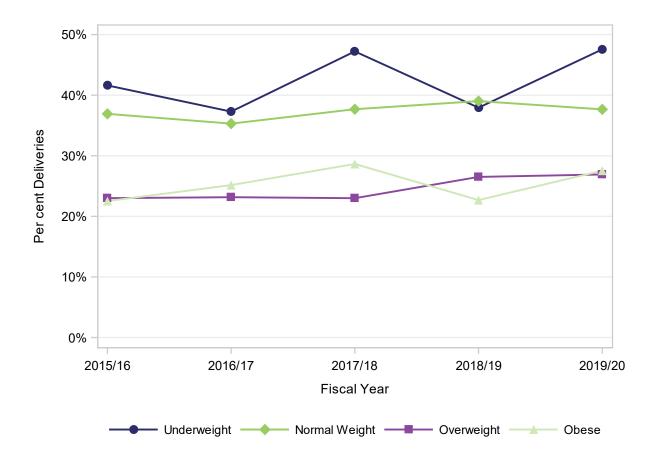
| | Fiscal Year | | | | | | |
|---------------|-------------|---------|---------|---------|---------|--|--|
| BMI Category | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Underweight | 3.0% | 2.8% | 2.6% | 2.6% | 2.3% | | |
| Normal Weight | 43.6% | 43.2% | 43.9% | 41.5% | 40.1% | | |
| Overweight | 17.3% | 18.1% | 18.6% | 19.8% | 18.6% | | |
| Obese | 13.2% | 13.8% | 13.9% | 14.7% | 15.6% | | |
| BMI Missing | 22.8% | 22.1% | 21.0% | 21.5% | 23.4% | | |

Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 1: Maternal Health.

Appropriate* Weight Gain During Pregnancy by Pre-Pregnancy Body Mass Index (BMI) Deliveries in Interior Health: April 1, 2015 - March 31, 2020

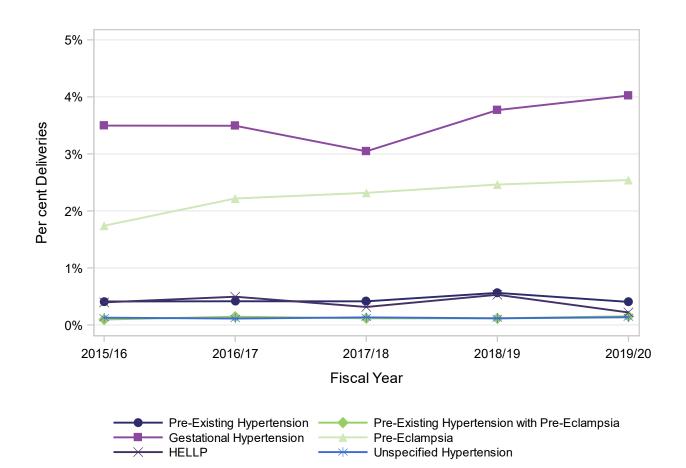


| | Fiscal Year | | | | | |
|---------------|-------------|---------|---------|---------|---------|--|
| BMI Category | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Underweight | 41.6% | 37.3% | 47.2% | 37.9% | 47.6% | |
| Normal Weight | 36.9% | 35.3% | 37.7% | 39.0% | 37.7% | |
| Overweight | 23.0% | 23.2% | 23.0% | 26.5% | 26.9% | |
| Obese | 22.5% | 25.2% | 28.6% | 22.7% | 27.5% | |

* As defined by the Institute of Medicine.

Data are limited to deliveries with complete height and weight information (45% of deliveries in 2019/20). Definitions and specifications begin on Page 84 of this document.

Hypertensive Disorders of Pregnancy Deliveries in Interior Health: April 1, 2015 - March 31, 2020



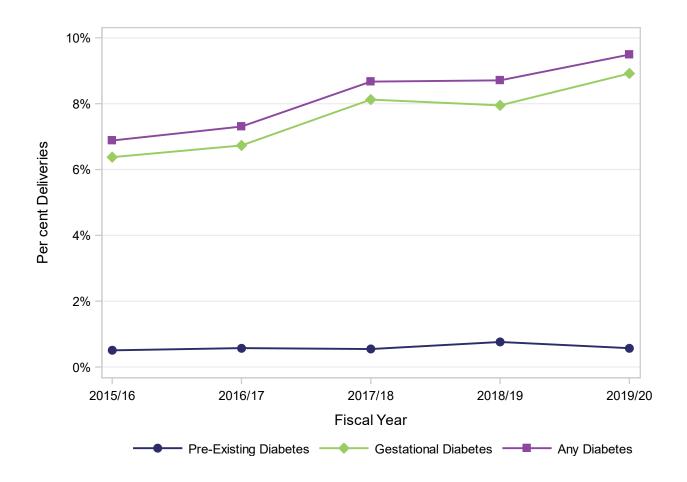
| | Fiscal Year | | | | | |
|--|-------------|---------|---------|---------|---------|--|
| Type of Hypertension | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| No Hypertension | 93.7% | 93.1% | 93.7% | 92.4% | 92.5% | |
| Pre-Existing Hypertension | 0.4% | 0.4% | 0.4% | 0.6% | 0.4% | |
| Pre-Existing Hypertension with Pre-Eclampsia | 0.1% | 0.1% | 0.1% | 0.1% | 0.2% | |
| Gestational Hypertension | 3.5% | 3.5% | 3.0% | 3.8% | 4.0% | |
| Pre-Eclampsia | 1.7% | 2.2% | 2.3% | 2.5% | 2.5% | |
| HELLP | 0.4% | 0.5% | 0.3% | 0.5% | 0.2% | |
| Eclampsia | NR | NR | NR | NR | NR | |
| Unspecified Hypertension | 0.1% | 0.1% | 0.1% | 0.1% | 0.1% | |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 1: Maternal Health.

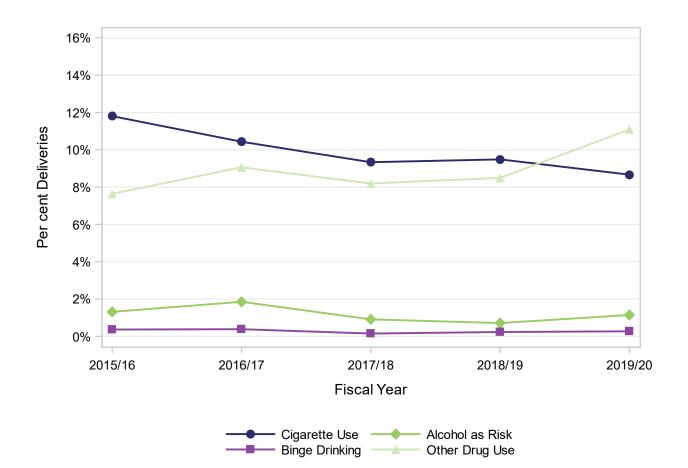
Diabetes Mellitus in Pregnancy Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|-----------------------|-------------|---------|---------|---------|---------|--|--|
| Type of Diabetes | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Pre-Existing Diabetes | 0.5% | 0.6% | 0.5% | 0.8% | 0.6% | | |
| Gestational Diabetes | 6.4% | 6.7% | 8.1% | 7.9% | 8.9% | | |
| Any Diabetes | 6.9% | 7.3% | 8.7% | 8.7% | 9.5% | | |

Definitions and specifications begin on Page 84 of this document.

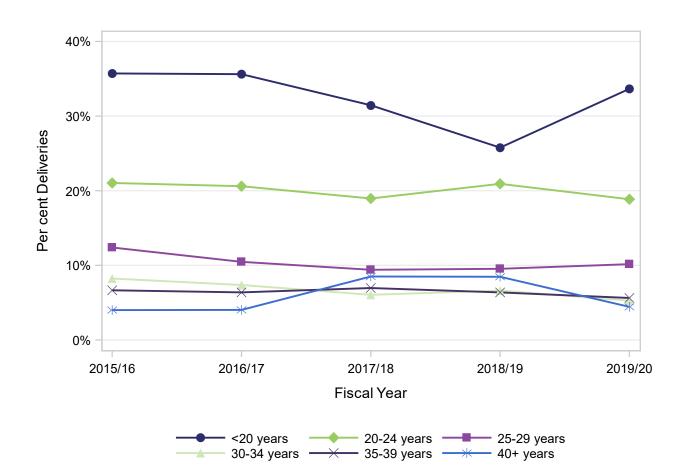
Substance Use During Pregnancy Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|-----------------|-------------|---------|---------|---------|---------|--|--|
| Substance | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Cigarette Use | 11.8% | 10.4% | 9.3% | 9.5% | 8.7% | | |
| Alcohol as Risk | 1.3% | 1.9% | 0.9% | 0.7% | 1.1% | | |
| Binge Drinking | 0.4% | 0.4% | 0.1% | 0.2% | 0.3% | | |
| Other Drug Use | 7.6% | 9.1% | 8.2% | 8.5% | 11.1% | | |

Definitions and specifications begin on Page 84 of this document.

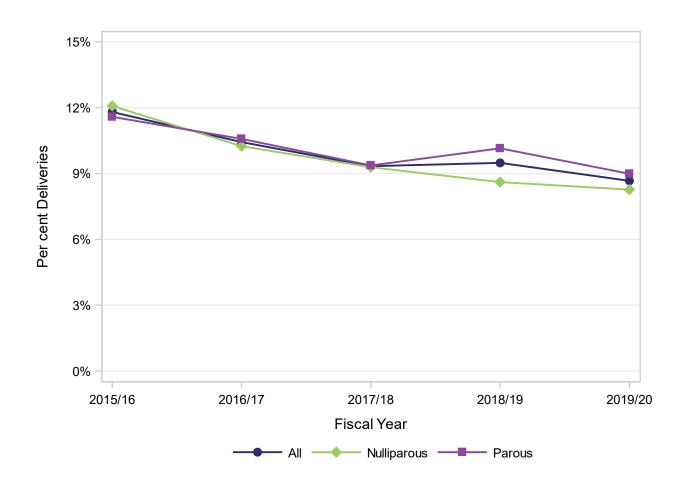
Cigarette Use at Any Time During Pregnancy by Maternal Age Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|--------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| <20 years | 35.7% | 35.6% | 31.5% | 25.8% | 33.7% | |
| 20-24 years | 21.0% | 20.6% | 19.0% | 20.9% | 18.9% | |
| 25-29 years | 12.4% | 10.5% | 9.4% | 9.5% | 10.2% | |
| 30-34 years | 8.2% | 7.4% | 6.0% | 6.6% | 5.3% | |
| 35-39 years | 6.7% | 6.4% | 7.0% | 6.4% | 5.6% | |
| 40+ years | 4.0% | 4.0% | 8.5% | 8.5% | 4.4% | |

Definitions and specifications begin on Page 84 of this document.

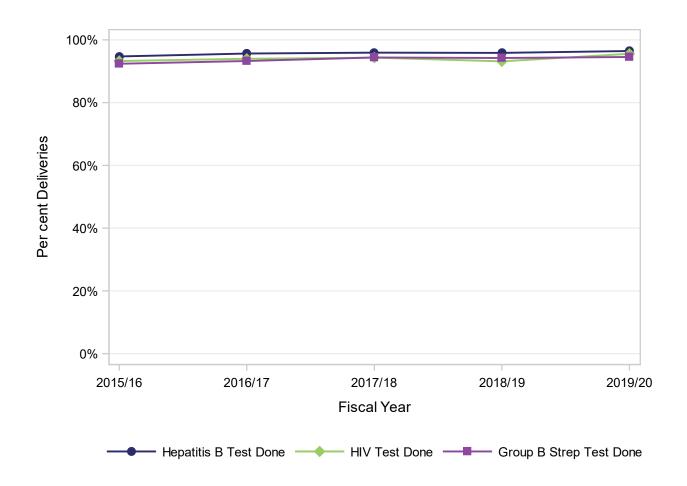
Cigarette Use at Any Time During Pregnancy by Parity Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|-------------|-------------|---------|---------|---------|---------|--|
| Parity | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| All | 11.8% | 10.4% | 9.3% | 9.5% | 8.7% | |
| Nulliparous | 12.1% | 10.2% | 9.3% | 8.6% | 8.3% | |
| Parous | 11.6% | 10.6% | 9.4% | 10.1% | 9.0% | |

Definitions and specifications begin on Page 84 of this document.

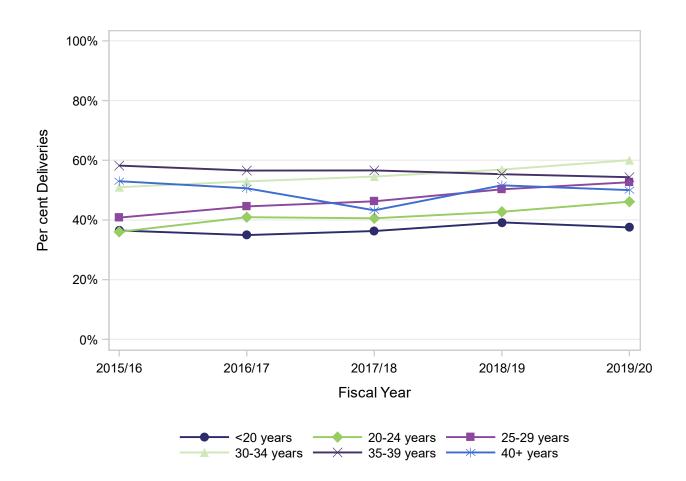
Maternal Screening Tests Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|-------------------------|-------------|---------|---------|---------|---------|--|--|
| Type of Screening | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Hepatitis B Test Done | 94.7% | 95.6% | 95.9% | 95.9% | 96.4% | | |
| HIV Test Done | 93.3% | 94.0% | 94.3% | 93.2% | 95.6% | | |
| Group B Strep Test Done | 92.4% | 93.3% | 94.4% | 94.2% | 94.5% | | |

Woman who delivered a baby at 35 weeks gestation or more was screened for Group B Streptococcus. Definitions and specifications begin on Page 84 of this document.

Uptake of Prenatal Genetic Screening by Maternal Age Deliveries in Interior Health: April 1, 2015 - March 31, 2020

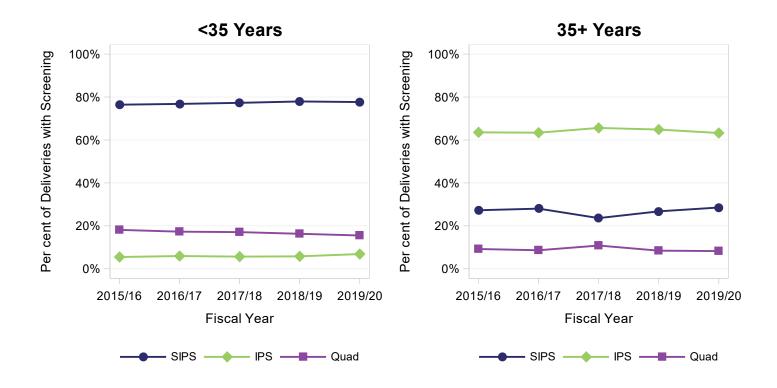


| | Fiscal Year | | | | | |
|--------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| <20 years | 36.5% | 34.9% | 36.3% | 39.2% | 37.5% | |
| 20-24 years | 36.0% | 40.9% | 40.6% | 42.7% | 46.1% | |
| 25-29 years | 40.8% | 44.5% | 46.2% | 50.3% | 52.6% | |
| 30-34 years | 51.0% | 52.9% | 54.5% | 56.9% | 60.0% | |
| 35-39 years | 58.2% | 56.5% | 56.6% | 55.3% | 54.3% | |
| 40+ years | 53.0% | 50.6% | 43.2% | 51.6% | 50.0% | |

Prenatal Genetic screening includes SIPS, IPS, Quad and AFP. Click here for information on the BC Prenatal Genetic Screening Program. Definitions and specifications begin on Page 84 of this document.

Type of Down Syndrome and Trisomy 18 Screening Performed by Maternal Age

Deliveries in Interior Health: April 1, 2015 - March 31, 2020

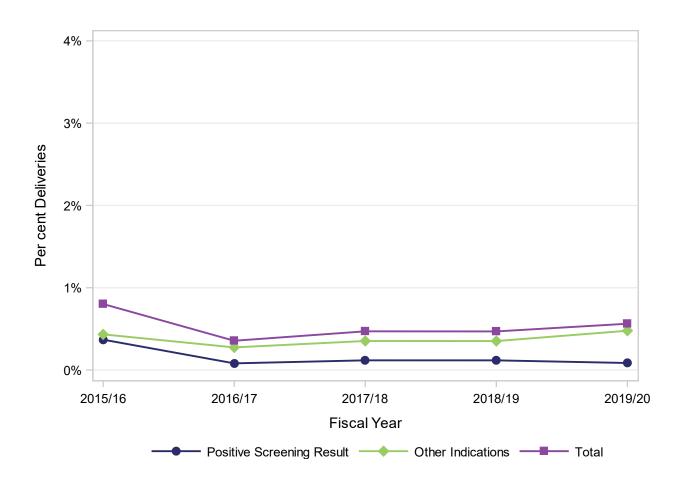


| | | Fiscal Year | | | | | |
|--------------|--------------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | Types of Screening | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| | SIPS | 76.4% | 76.8% | 77.3% | 77.9% | 77.7% | |
| <35 years | IPS | 5.5% | 5.9% | 5.6% | 5.8% | 6.8% | |
| | Quad | 18.1% | 17.3% | 17.1% | 16.3% | 15.5% | |
| | SIPS | 27.3% | 28.0% | 23.6% | 26.7% | 28.5% | |
| 35+ years | IPS | 63.5% | 63.4% | 65.6% | 64.8% | 63.2% | |
| | Quad | 9.2% | 8.6% | 10.8% | 8.4% | 8.2% | |

SIPS, IPS, and Quad are publicly-funded Down syndrome screenings performed as part of the BC Prenatal Genetic Screening Program. Data are limited to singleton deliveries with Down syndrome screening performed (52% of all deliveries in 2019/20). Click here for information on the BC Prenatal Genetic Screening Program.

Definitions and specifications begin on Page 84 of this document.

Uptake of Invasive Diagnostic Testing by Indication Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|---|-------------|---------|---------|---------|---------|--|--|
| Invasive Diagnostic Testing Indication | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Positive Screening Result | 0.4% | 0.1% | 0.1% | 0.1% | 0.1% | | |
| Other Indications | 0.4% | 0.3% | 0.4% | 0.4% | 0.5% | | |
| Total | 0.8% | 0.4% | 0.5% | 0.5% | 0.6% | | |

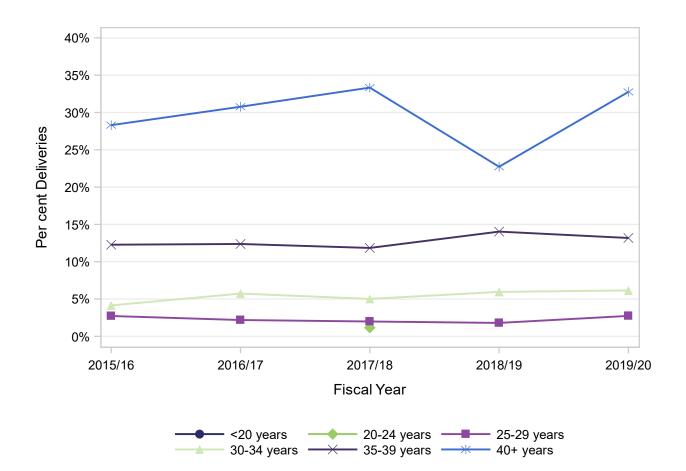
Invasive diagnostic testing includes chorionic villus sampling or amniocentesis.

Data are limited to singleton deliveries.

Other indications include all indications for invasive diagnostic testing other than a positive funded screening result. Click here for information on the BC Prenatal Genetic Screening Program.

Definitions and specifications begin on Page 84 of this document.

Use of Artificial Reproductive Technology Nulliparous Women by Age Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|--------------|-------------|---------|---------|---------|---------|--|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| <20 years | NR | NR | NR | NR | NR | |
| 20-24 years | NR | NR | 1.2% | NR | NR | |
| 25-29 years | 2.7% | 2.2% | 2.0% | 1.8% | 2.7% | |
| 30-34 years | 4.1% | 5.7% | 5.0% | 6.0% | 6.2% | |
| 35-39 years | 12.3% | 12.4% | 11.8% | 14.0% | 13.2% | |
| 40+ years | 28.3% | 30.8% | 33.3% | 22.7% | 32.8% | |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

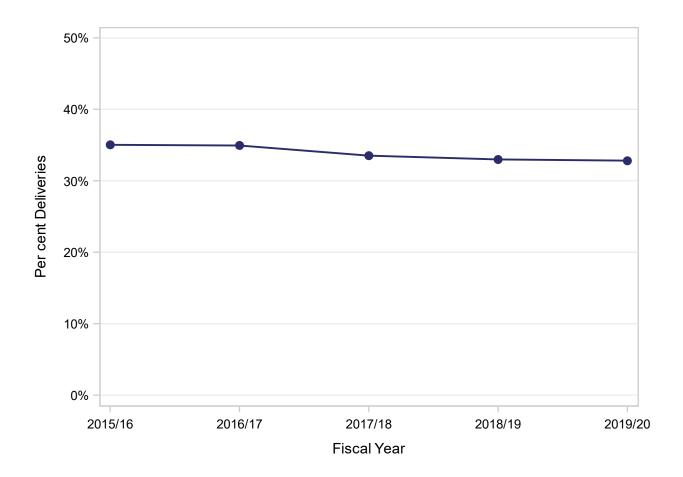
Section 1: Maternal Health.

Page 21

Perinatal Health Report 2015/16 to 2019/20 Interior Health

Section 2: Labour and Delivery

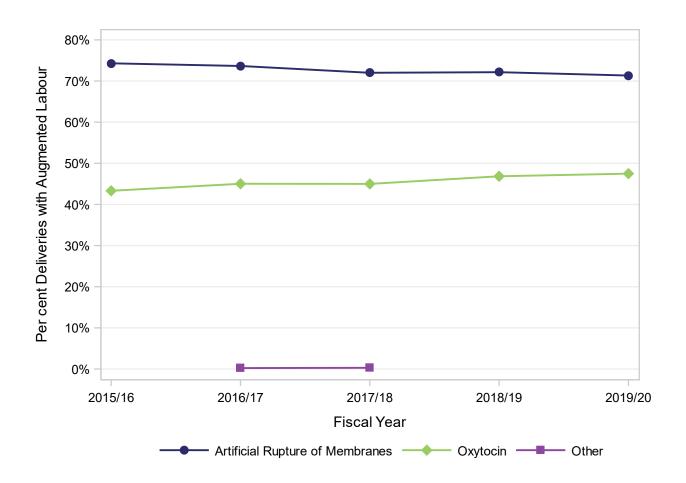
Labour Augmentation Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | |
|---------------------|-------------|---|-------|-------|-------|--|--|--|
| | 2015/16 | 2015/16 2016/17 2017/18 2018/19 2019/20 | | | | | | |
| Labour Augmentation | 35.0% | 34.9% | 33.5% | 33.0% | 32.8% | | | |

Definitions and specifications begin on Page 84 of this document.

Method of Labour Augmentation Deliveries in Interior Health: April 1, 2015 - March 31, 2020

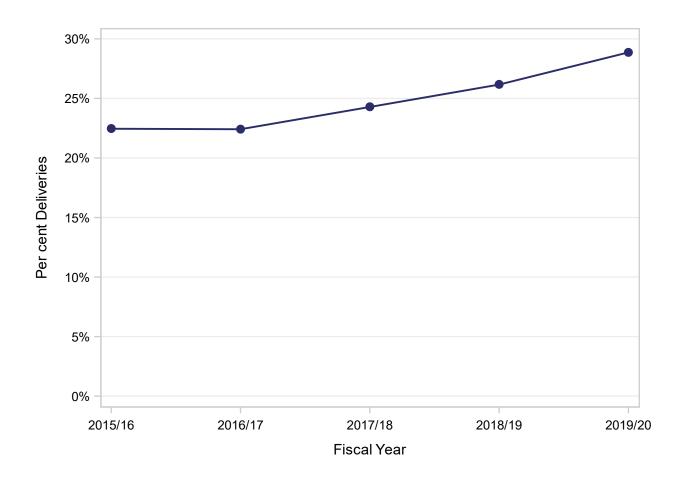


| | Fiscal Year | | | | | |
|---------------------------------|-------------|---------|---------|---------|---------|--|
| Method of Labour Augmentation | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Artificial Rupture of Membranes | 74.3% | 73.7% | 72.0% | 72.1% | 71.3% | |
| Oxytocin | 43.3% | 45.0% | 45.0% | 46.8% | 47.5% | |
| Other | NR | 0.2% | 0.3% | NR | NR | |

Multiple methods may be used.

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Labour Induction Deliveries in Interior Health: April 1, 2015 - March 31, 2020

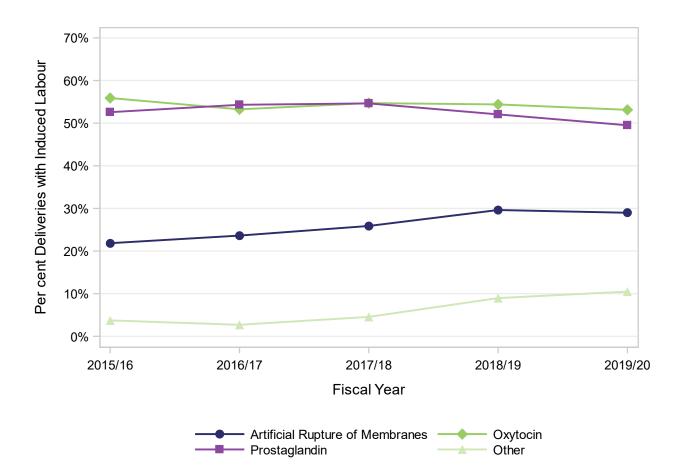


| | Fiscal Year 2015/16 2016/17 2017/18 2018/19 2019/20 | | | | | | |
|------------------|---|-------|-------|-------|-------|--|--|
| | | | | | | | |
| Labour Induction | 22.5% | 22.4% | 24.3% | 26.2% | 28.9% | | |

Definitions and specifications begin on Page 84 of this document.

Method of Labour Induction

Deliveries in Interior Health: April 1, 2015 - March 31, 2020

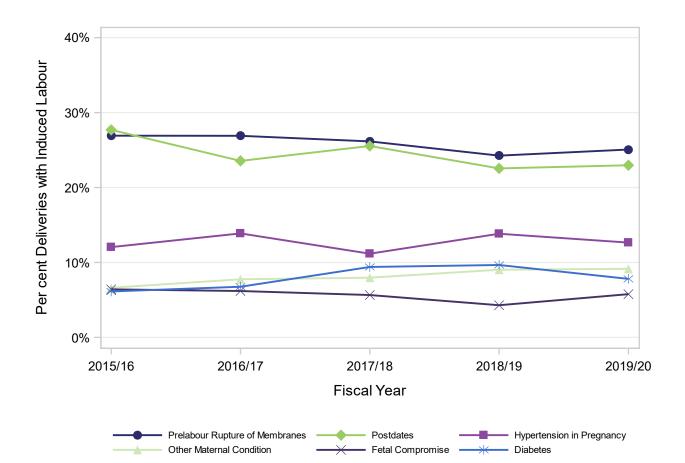


| | Fiscal Year | | | | | |
|---------------------------------|-------------|---------|---------|---------|---------|--|
| Method of Labour Induction | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Artificial Rupture of Membranes | 21.8% | 23.6% | 25.9% | 29.6% | 29.0% | |
| Oxytocin | 55.9% | 53.2% | 54.7% | 54.4% | 53.1% | |
| Prostaglandin | 52.6% | 54.3% | 54.6% | 52.1% | 49.5% | |
| Other | 3.7% | 2.7% | 4.6% | 9.0% | 10.5% | |

Multiple methods may be used.

Definitions and specifications begin on Page 84 of this document.

Primary Indication for Labour Induction Deliveries in Interior Health: April 1, 2015 - March 31, 2020



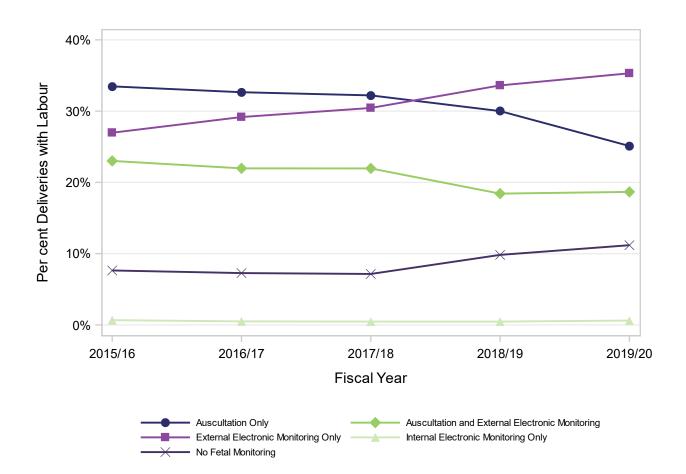
| | Fiscal Year | | | | | | |
|---|-------------|---------|---------|---------|---------|--|--|
| Primary Indication for Labour Induction | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Prelabour Rupture of Membranes | 26.9% | 26.9% | 26.2% | 24.3% | 25.1% | | |
| Post Dates | 27.7% | 23.6% | 25.5% | 22.6% | 23.0% | | |
| Hypertension in Pregnancy | 12.1% | 13.9% | 11.2% | 13.8% | 12.7% | | |
| Other Maternal Condition | 6.6% | 7.8% | 8.0% | 9.0% | 9.2% | | |
| Fetal Compromise | 6.4% | 6.2% | 5.7% | 4.3% | 5.8% | | |
| Diabetes | 6.1% | 6.8% | 9.4% | 9.7% | 7.8% | | |
| Fetal Demise | 1.0% | 0.9% | 1.2% | 1.2% | 1.1% | | |
| Logistics | 1.8% | 1.6% | 1.4% | 1.6% | 1.9% | | |
| Antepartum Hemorrhage | NR | 0.7% | NR | 0.5% | NR | | |
| Chorioamnionitis | NR | NR | NR | NR | NR | | |
| Other | 10.6% | 11.2% | 10.8% | 12.4% | 12.6% | | |
| Unknown | 0.4% | 0.5% | NR | 0.5% | 0.7% | | |

Selected indications are included in the figure; all indications are included in the table.

NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 84 of this document.

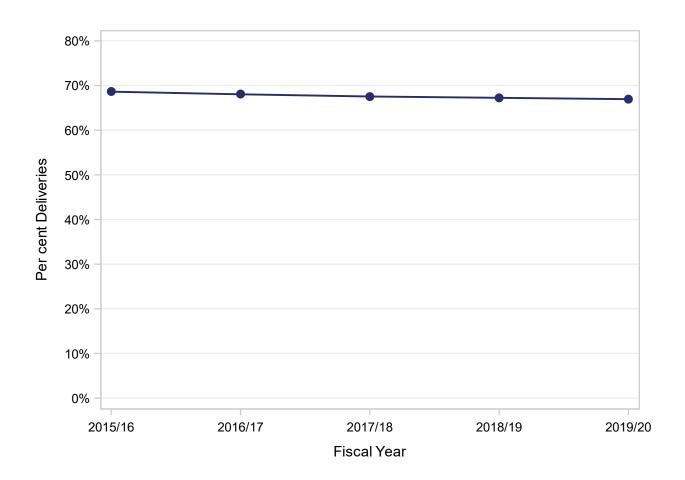
Method of Fetal Surveillance During Labour Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|---|-------------|---------|---------|---------|---------|--|
| Method of Fetal Surveillance During Labour | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Auscultation Only | 33.5% | 32.7% | 32.2% | 30.0% | 25.1% | |
| Auscultation and External Electronic Monitoring | 23.0% | 22.0% | 22.0% | 18.4% | 18.7% | |
| External Electronic Monitoring Only | 27.0% | 29.2% | 30.4% | 33.6% | 35.3% | |
| Internal Electronic Monitoring Only | 0.7% | 0.5% | 0.5% | 0.5% | 0.6% | |
| No Fetal Monitoring | 7.6% | 7.3% | 7.2% | 9.8% | 11.2% | |

Definitions and specifications begin on Page 84 of this document.

Vaginal Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020

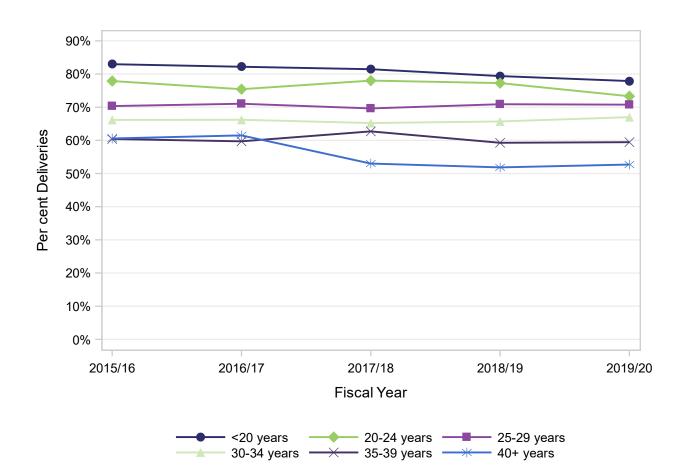


| | Fiscal Year | | | | | | |
|------------------|-------------|---------|---------|---------|---------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Vaginal Delivery | 68.6% | 68.0% | 67.5% | 67.2% | 66.9% | | |

Definitions and specifications begin on Page 84 of this document.

Vaginal Delivery

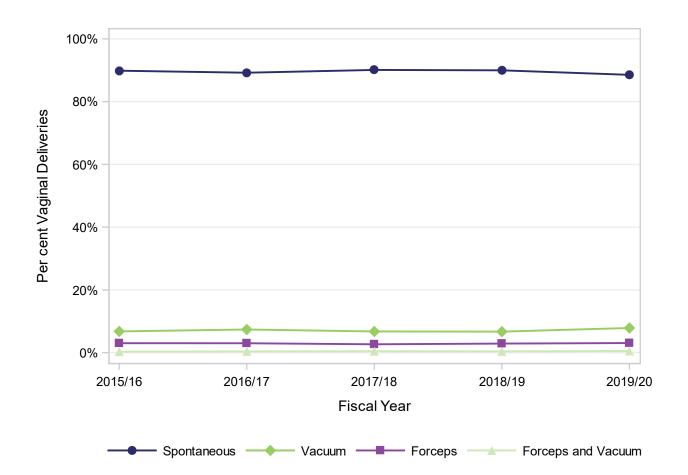
by Maternal Age Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | |
|--------------|-------------|---------|---------|---------|---------|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| <20 years | 83.0% | 82.2% | 81.5% | 79.4% | 77.9% |
| 20-24 years | 77.9% | 75.4% | 78.0% | 77.3% | 73.3% |
| 25-29 years | 70.3% | 71.0% | 69.6% | 70.9% | 70.8% |
| 30-34 years | 66.2% | 66.2% | 65.2% | 65.7% | 67.0% |
| 35-39 years | 60.4% | 59.7% | 62.7% | 59.3% | 59.5% |
| 40+ years | 60.6% | 61.5% | 53.0% | 51.9% | 52.7% |

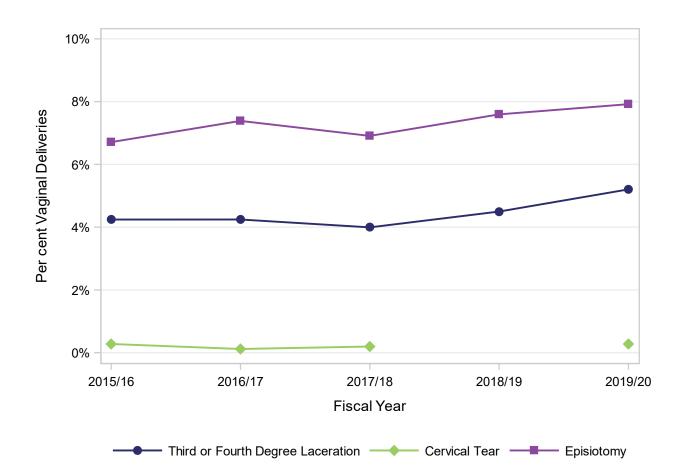
Definitions and specifications begin on Page 84 of this document.

Type of Vaginal Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|--------------------------|-------------|---------|---------|---------|---------|--|
| Type of Vaginal Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Spontaneous | 89.9% | 89.2% | 90.1% | 90.0% | 88.5% | |
| Vacuum | 6.8% | 7.4% | 6.8% | 6.7% | 7.9% | |
| Forceps | 3.0% | 3.0% | 2.7% | 2.9% | 3.1% | |
| Forceps and Vacuum | 0.3% | 0.4% | 0.5% | 0.4% | 0.5% | |

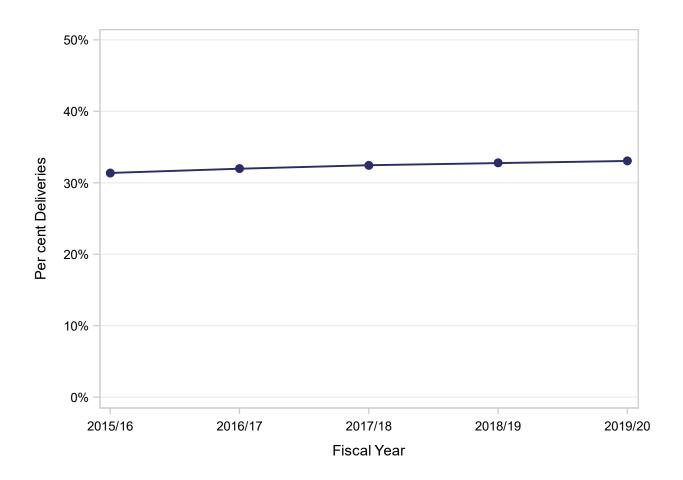
Perineal Trauma Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|-----------------------------------|-------------|---------|---------|---------|---------|--|
| Perineal Trauma | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Third or Fourth Degree Laceration | 4.2% | 4.2% | 4.0% | 4.5% | 5.2% | |
| Cervical Tear | 0.3% | 0.1% | 0.2% | NR | 0.3% | |
| Episiotomy | 6.7% | 7.4% | 6.9% | 7.6% | 7.9% | |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

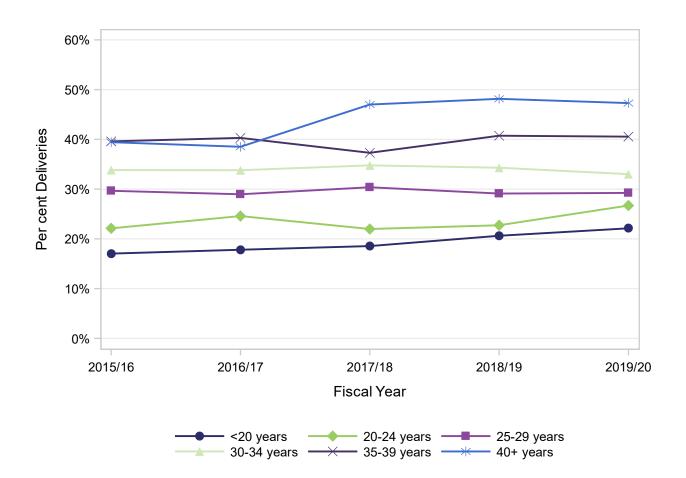
Cesarean Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|-------------------|-------------|---------|---------|---------|---------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Cesarean Delivery | 31.4% | 32.0% | 32.5% | 32.8% | 33.1% | | |

Cesarean Delivery

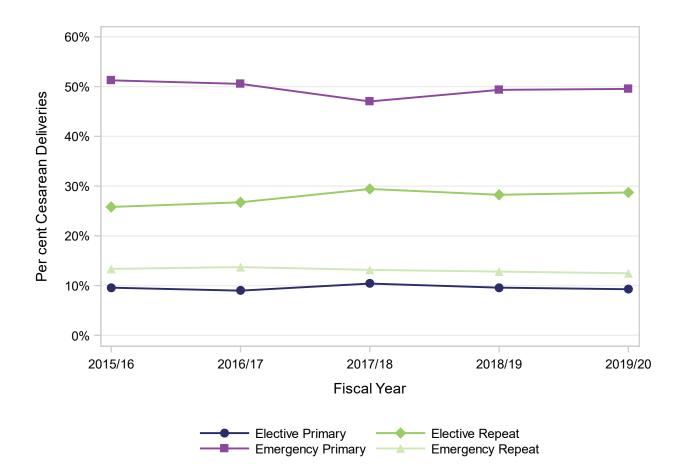
by Maternal Age Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | |
|--------------|-------------|---------|---------|---------|---------|
| Maternal Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| <20 years | 17.0% | 17.8% | 18.5% | 20.6% | 22.1% |
| 20-24 years | 22.1% | 24.6% | 22.0% | 22.7% | 26.7% |
| 25-29 years | 29.7% | 29.0% | 30.4% | 29.1% | 29.2% |
| 30-34 years | 33.8% | 33.8% | 34.8% | 34.3% | 33.0% |
| 35-39 years | 39.6% | 40.3% | 37.3% | 40.7% | 40.5% |
| 40+ years | 39.4% | 38.5% | 47.0% | 48.1% | 47.3% |

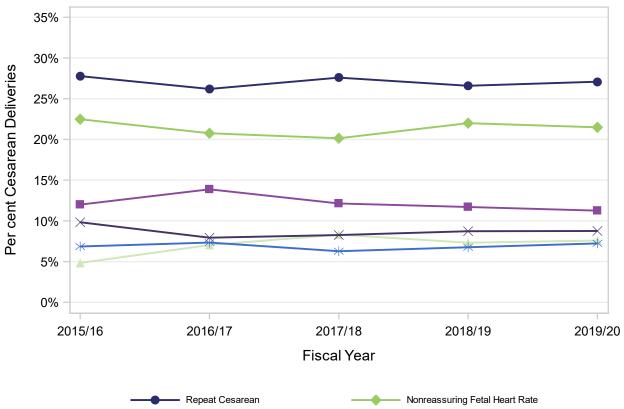
Definitions and specifications begin on Page 84 of this document.

Type of Cesarean Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|---------------------------|-------------|---------|---------|---------|---------|--|
| Type of Cesarean Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Elective Primary | 9.6% | 9.0% | 10.4% | 9.6% | 9.3% | |
| Elective Repeat | 25.8% | 26.7% | 29.4% | 28.3% | 28.7% | |
| Emergency Primary | 51.3% | 50.5% | 47.0% | 49.3% | 49.5% | |
| Emergency Repeat | 13.4% | 13.7% | 13.2% | 12.8% | 12.5% | |

Primary Indication for Cesarean Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Repeat Cesarean | Nonreassuring Fetal Heart Rate |
|-----|--------------------------------------|------------------------------------|
| | Dystocia/Cephalopelvic Disproportion | VBAC Declined/Maternal Request |
| —×— | Breech | Malposition/Malpresentation |

| | Fiscal Year | | | | | |
|--|-------------|---------|---------|---------|---------|--|
| Primary Indication for Cesarean Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Repeat Cesarean | 27.8% | 26.2% | 27.6% | 26.6% | 27.1% | |
| Nonreassuring Fetal Heart Rate | 22.5% | 20.8% | 20.1% | 22.0% | 21.5% | |
| Dystocia/Cephalopelvic Disproportion | 12.0% | 13.9% | 12.1% | 11.7% | 11.3% | |
| VBAC Declined/Maternal Request | 4.8% | 7.0% | 8.3% | 7.3% | 7.6% | |
| Breech | 9.8% | 7.9% | 8.3% | 8.7% | 8.8% | |
| Malposition/Malpresentation | 6.9% | 7.3% | 6.3% | 6.8% | 7.2% | |
| Placenta Previa | 1.1% | 1.7% | 1.2% | 1.1% | 1.3% | |
| Abruptio Placenta | 1.0% | 1.5% | 1.0% | 1.1% | 1.1% | |
| Active Herpes | NR | NR | 0.4% | 0.4% | 0.5% | |
| Other | 13.8% | 13.5% | 14.5% | 14.3% | 13.7% | |

Selected indications are included in the figure; all indications are included in the table.

NR: Rates and per cents based on numerators of 1 to 4 are not reported.

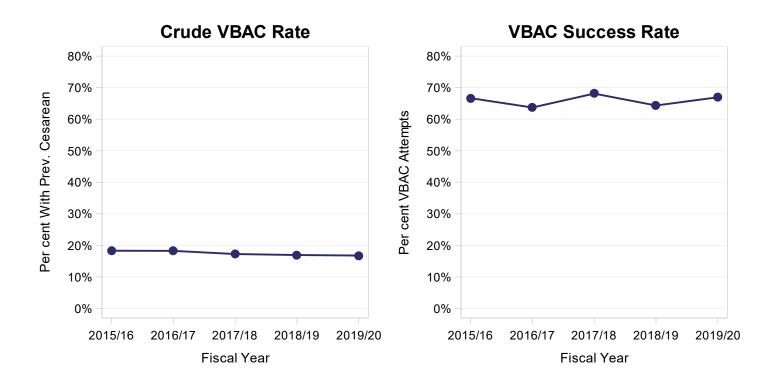
Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 2: Labour and Delivery.

Vaginal Birth After Cesarean (VBAC)

Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Vaginal Birth After Cesarean (VBAC)

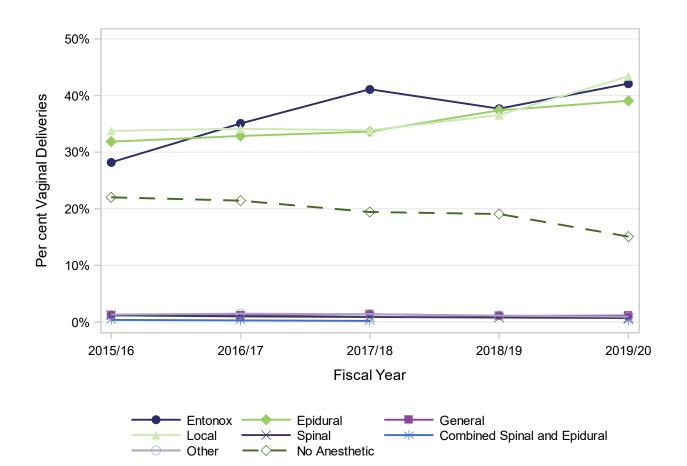
| | Fiscal Year | | | | | | |
|---------------------|-------------|---------|---------|---------|---------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Crude VBAC Rate | 18.3% | 18.2% | 17.2% | 16.9% | 16.8% | | |
| VBAC Eligible Rate | 78.1% | 72.2% | 72.2% | 75.0% | 75.1% | | |
| VBAC Attempted Rate | 35.1% | 39.2% | 34.8% | 35.1% | 33.2% | | |
| VBAC Success Rate | 66.7% | 63.7% | 68.1% | 64.3% | 66.9% | | |

Crude VBAC Rate: Total number vaginal deliveries / Women with a previous cesarean VBAC Eligible Rate: Women considered eligible for VBAC / Women with a previous cesarean VBAC Attempted Rate: Women who attempted a VBAC / Women considered eligible for VBAC VBAC Success Rate: Women with a vaginal delivery / Women who were eligible for and attempted VBAC

Definitions and specifications begin on Page 84 of this document.

Anesthesia or Analgesia During Labour and Delivery Vaginal Deliveries

Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|------------------------------|-------------|---------|---------|---------|---------|--|
| Anesthesia or Analgesia | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Entonox | 28.2% | 35.1% | 41.1% | 37.7% | 42.1% | |
| Epidural | 31.8% | 32.8% | 33.6% | 37.4% | 39.1% | |
| General | 1.2% | 1.2% | 1.4% | 1.1% | 1.1% | |
| Local | 33.8% | 34.1% | 33.9% | 36.5% | 43.4% | |
| Spinal | 1.2% | 1.0% | 0.9% | 0.8% | 0.7% | |
| Combined Spinal and Epidural | - | - | - | NR | 0.3% | |
| Other | 1.3% | 1.5% | 1.4% | 1.1% | 0.9% | |
| No Anesthetic | 22.0% | 21.4% | 19.4% | 19.1% | 15.1% | |

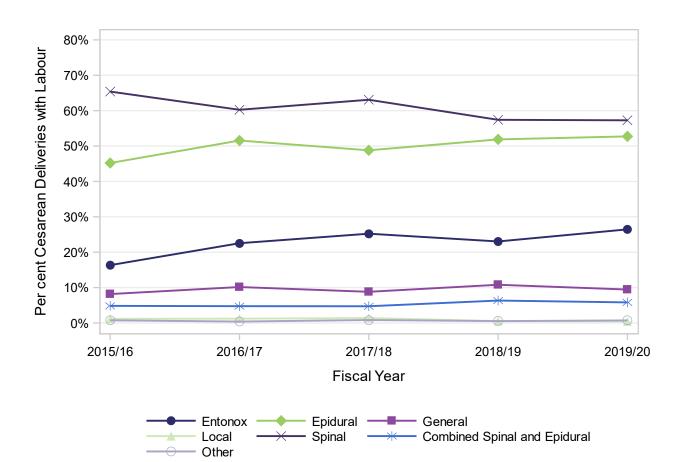
Effective April 2015, Combined spinal and epidural anaesthetic (CSE) is coded when a combined spinal and epidural are given at the same time. Multiple agents may be used.

NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 84 of this document.

Anesthesia or Analgesia During Labour and Delivery Cesarean Deliveries with Labour

Deliveries in Interior Health: April 1, 2015 - March 31, 2020



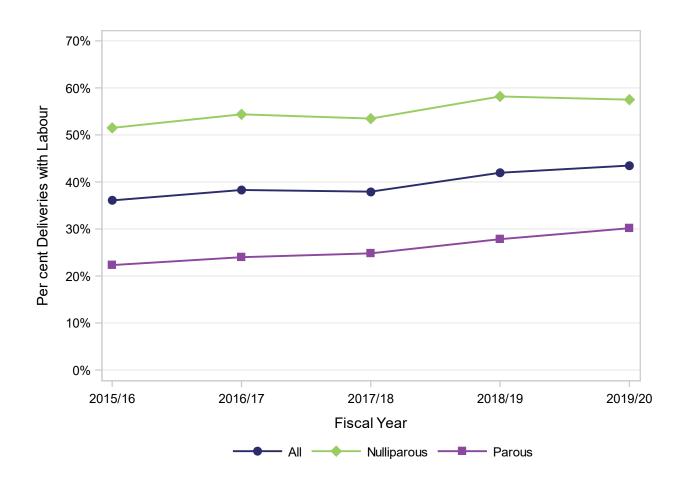
| | Fiscal Year | | | | | |
|------------------------------|-------------|---------|---------|---------|---------|--|
| Anesthesia or Analgesia | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Entonox | 16.3% | 22.5% | 25.2% | 23.0% | 26.5% | |
| Epidural | 45.2% | 51.6% | 48.8% | 51.9% | 52.7% | |
| General | 8.2% | 10.2% | 8.8% | 10.8% | 9.5% | |
| Local | 1.2% | 1.2% | 1.4% | 0.5% | 0.5% | |
| Spinal | 65.4% | 60.2% | 63.1% | 57.4% | 57.3% | |
| Combined Spinal and Epidural | - | - | - | NR | 5.8% | |
| Other | 0.8% | 0.4% | 0.8% | 0.5% | 0.7% | |

Effective April 2015, Combined spinal and epidural anaesthetic (CSE) is coded when a combined spinal and epidural are given at the same time. Multiple agents may be used.

NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 84 of this document.

Epidural Anesthesia or Analgesia During Labour and Delivery **by Parity** Deliveries in Interior Health: April 1, 2015 - March 31, 2020

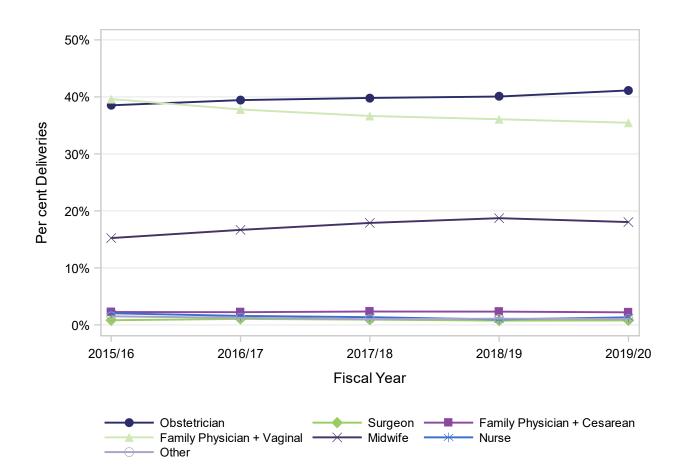


| | Fiscal Year | | | | | |
|-------------|-------------|---------|---------|---------|---------|--|
| Parity | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| All | 36.1% | 38.3% | 37.9% | 42.0% | 43.5% | |
| Nulliparous | 51.5% | 54.4% | 53.5% | 58.2% | 57.5% | |
| Parous | 22.3% | 24.0% | 24.8% | 27.8% | 30.2% | |

Effective April 2015, Combined spinal and epidural anaesthetic (CSE) is coded when a combined spinal and epidural are given at the same time. Includes Combined spinal and epidural anaesthetic (CSE).

Definitions and specifications begin on Page 84 of this document.

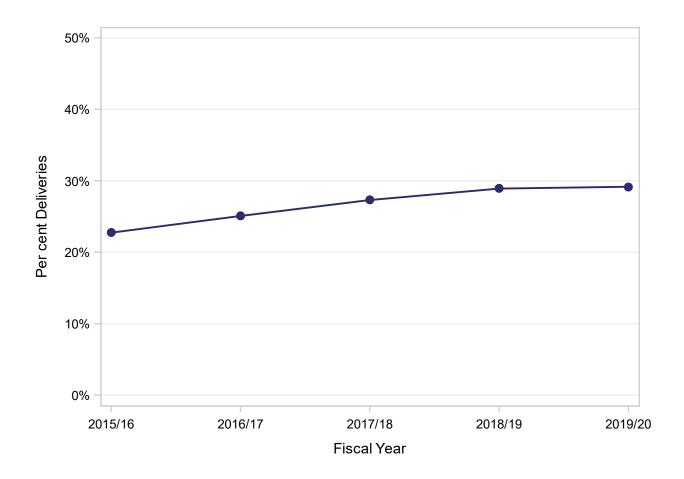
Delivery Provider Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | |
|-----------------------------|-------------|---------|---------|---------|---------|--|--|--|
| Delivery Provider | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| Obstetrician | 38.5% | 39.4% | 39.8% | 40.1% | 41.1% | | | |
| Surgeon | 0.8% | 1.1% | 0.9% | 0.8% | 0.8% | | | |
| Family Physician + Cesarean | 2.3% | 2.2% | 2.3% | 2.3% | 2.2% | | | |
| Family Physician + Vaginal | 39.6% | 37.8% | 36.7% | 36.1% | 35.5% | | | |
| Midwife | 15.2% | 16.7% | 17.9% | 18.7% | 18.0% | | | |
| Nurse | 2.0% | 1.6% | 1.4% | 1.0% | 1.3% | | | |
| Other | 1.5% | 1.2% | 1.0% | 1.1% | 1.0% | | | |

Describes the training of the provider who delivered the baby. This may not be the same type of health care professional who provided antenatal care. Definitions and specifications begin on Page 84 of this document.

Deliveries with Midwifery-Involved Care Deliveries in Interior Health: April 1, 2015 - March 31, 2020

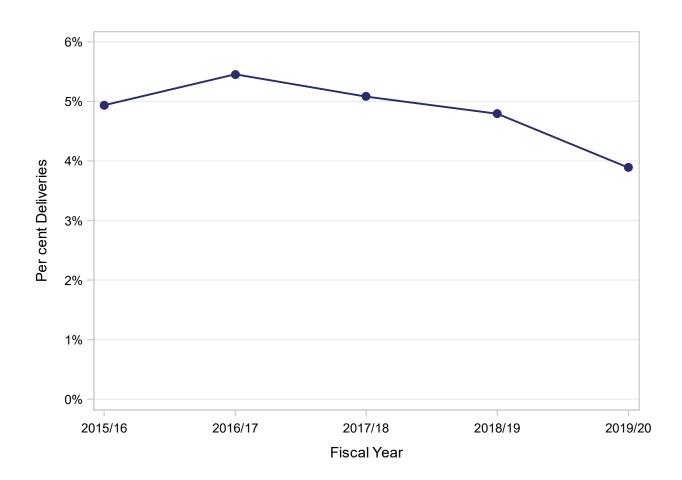


| | Fiscal Year | | | | | | | |
|---|-------------|---------|---------|---------|---------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| Deliveries with Midwifery-Involved Care | 22.7% | 25.1% | 27.3% | 28.9% | 29.2% | | | |

Indicates if a registered midwife was involved at any point in maternal or newborn care. May not be the provider who performs the delivery. Definitions and specifications begin on Page 84 of this document.

Deliveries at Home with a Registered Midwife

Deliveries in Interior Health: April 1, 2015 - March 31, 2020



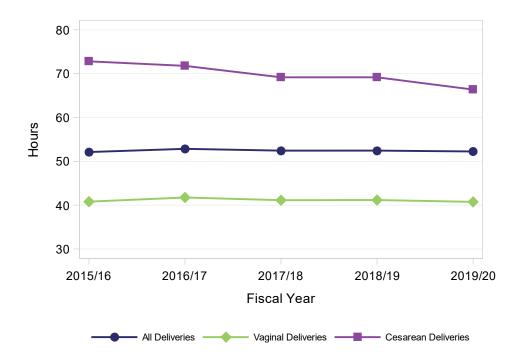
| | Fiscal Year | | | | | | | |
|--------------------|-------------|---------|---------|---------|---------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| Deliveries at Home | 4.9% | 5.5% | 5.1% | 4.8% | 3.9% | | | |

Includes deliveries at home where the woman was admitted to acute care within 24 hours.

Until March 31, 2014, if a baby born at home with a registered midwife was admitted to acute care within 24 hours birth, the acute care admission was their Birth Admission and the transfer was not recorded. Effective April 1, 2014, babies born at home with a registered midwife have home as the location of the Birth Admission. All admissions to acute care within 28 days, including those within 24 hours of birth, are counted as Post-Neonatal Admissions.

Definitions and specifications begin on Page 84 of this document.

Length of Stay for the Delivery Episode of Care by Mode of Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Median Total Length of Stay (Hours)

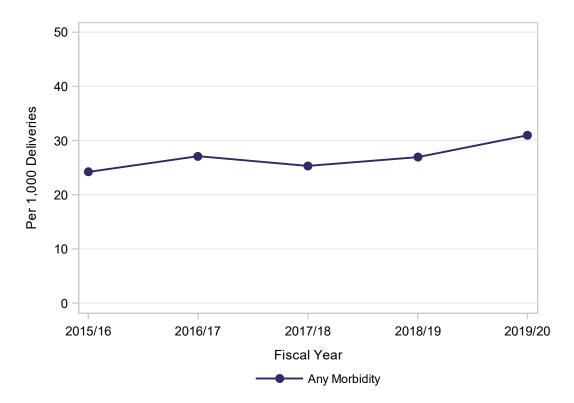
Median Antepartum, Postpartum, and Total Length of Stay for the Delivery Episode of Care

| | Antepartum LOS (Hours) | | | P | ostpartı | um LOS | (Hours) |) | Total LOS (Hours) | | | | | | |
|---------------------|------------------------|-------|-------|-------------------------|----------|--------|---------|-------------|-------------------|-------|-------|-------|-------|-------|-------|
| | Fiscal Year | | | Fiscal Year Fiscal Year | | | | Fiscal Year | | | | | | | |
| Mode of Delivery | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 |
| All Deliveries | 5.3 | 5.7 | 5.4 | 5.6 | 6.0 | 44.2 | 44.7 | 44.5 | 44.2 | 43.7 | 52.1 | 52.9 | 52.4 | 52.5 | 52.3 |
| Vaginal Deliveries | 5.0 | 5.3 | 5.2 | 5.3 | 5.7 | 34.6 | 35.0 | 34.6 | 34.8 | 34.1 | 40.8 | 41.8 | 41.1 | 41.2 | 40.8 |
| Cesarean Deliveries | 6.0 | 6.4 | 6.0 | 6.1 | 6.5 | 62.1 | 61.4 | 59.0 | 58.0 | 55.3 | 72.8 | 71.8 | 69.2 | 69.2 | 66.4 |

Deliveries outside acute care facilities are excluded. Definitions and specifications begin on Page 84 of this document.

Maternal Morbidity

Deliveries in Interior Health: April 1, 2015 - March 31, 2020

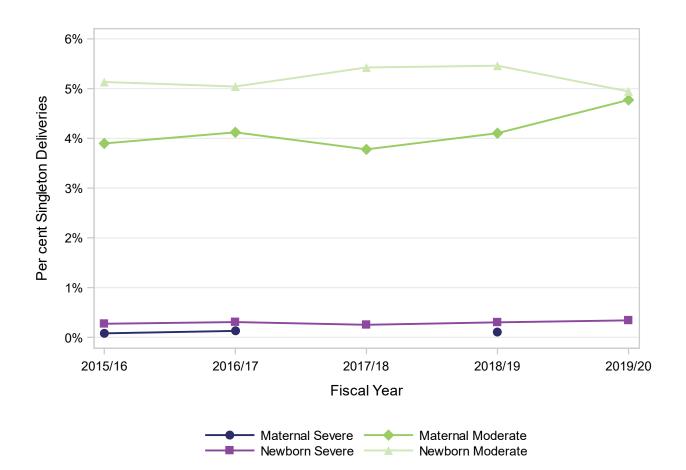


Specific Maternal Morbidities

| | | | Fiscal Year | | |
|---|-----------|-----------|-------------|-----------|-----------|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Type of Morbidity | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 |
| Liver Complications | 6.5 | 5.9 | 7.1 | 7.6 | 9.9 |
| Postpartum Hemorrhage with Transfusion | 4.9 | 5.9 | 7.0 | 5.5 | 9.1 |
| Urinary Tract Infection | 3.6 | 3.0 | 2.2 | 3.0 | 2.9 |
| Sepsis | 5.9 | 4.9 | 4.8 | 5.5 | 5.4 |
| Wound Infection | 2.2 | 3.3 | 3.1 | 3.1 | 1.7 |
| HELLP | 4.0 | 4.9 | 3.1 | 5.3 | 2.2 |
| Anesthetic Complications | 1.3 | 2.2 | 1.7 | 2.1 | 1.2 |
| Antepartum Hemorrhage with Transfusion | NR | 2.6 | 1.3 | 1.0 | 2.0 |
| Eclampsia | NR | NR | 0.0 | NR | NR |
| Shock | 0.0 | NR | 0.0 | NR | NR |
| Pulmonary Embolism | 0.8 | 1.0 | NR | NR | NR |
| Postpartum Hemorrhage with Hysterectomy | NR | NR | NR | 1.0 | NR |
| Stroke | NR | NR | NR | NR | NR |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Adverse Outcome of Labour or Delivery Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | | | Fiscal Year | | |
|-----------------------------------|---------|---------|-------------|---------|---------|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Any Adverse Outcome | 9.1% | 9.3% | 9.2% | 9.6% | 9.7% |
| Maternal Severe Adverse Outcome | 0.1% | 0.1% | NR | 0.1% | NR |
| Maternal Moderate Adverse Outcome | 3.9% | 4.1% | 3.8% | 4.1% | 4.8% |
| Neonatal Severe Adverse Outcome | 0.3% | 0.3% | 0.3% | 0.3% | 0.3% |
| Neonatal Moderate Adverse Outcome | 5.1% | 5.0% | 5.4% | 5.5% | 4.9% |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Maternal Hospital Transfers Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | |
|------------------|--------------------------------------|-----------|-----------|-----------|-----------|--|--|--|
| | 2015/16 2016/17 2017/18 2018/19 2019 | | | | | | | |
| Type of Transfer | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | | |
| Any Transfer | 16.3 | 14.5 | 14.1 | 14.9 | 11.4 | | | |
| Higher Level | 12.0 | 10.8 | 9.9 | 12.1 | 8.8 | | | |

Women may be transferred to another hospital for either maternal or neonatal indications.

Includes transfers from an inpatient Delivery Admission directly to another acute care facility. Effective 2014/15 may also include women transferred directly to acute care from a delivery at home.

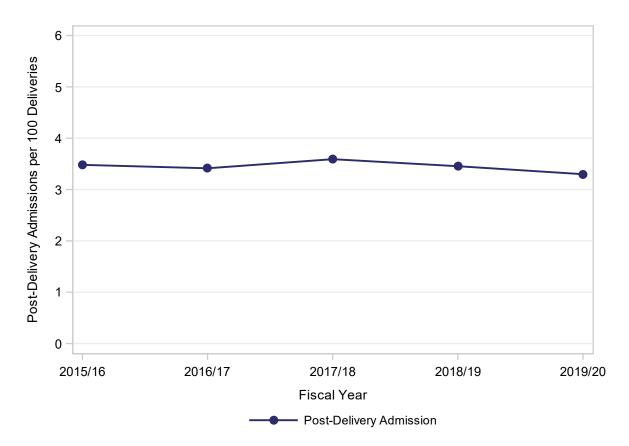
Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 2: Labour and Delivery.

Post-Delivery Admissions

Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Leading Diagnoses Associated with Post-Delivery Admissions Per cent Post-Delivery Admissions

| | Fiscal Year | | | | | | |
|---------------------------------------|-------------|---------|---------|---------|---------|--|--|
| Most Responsible Diagnosis | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Routine Postpartum Care | 33.2% | 30.4% | 29.5% | 24.9% | 23.0% | | |
| Postpartum Hemorrhage | 19.5% | 18.2% | 13.8% | 16.7% | 17.3% | | |
| Postpartum Infection | 15.9% | 16.8% | 14.3% | 13.9% | 14.8% | | |
| Other Diseases Complicating Pregnancy | 6.8% | 4.7% | 8.3% | 8.6% | 14.3% | | |
| Hypertension or Eclampsia | 6.4% | 7.5% | 11.5% | 11.0% | 14.3% | | |
| Retained Placenta Without Hemorrhage | NR | 3.7% | 2.8% | 3.3% | 3.6% | | |
| Other Wound Issues | 5.9% | 3.3% | 6.9% | 8.1% | 3.1% | | |
| Care of Breasts | NR | NR | 3.7% | 2.4% | NR | | |
| Complications of Anesthesia | NR | 5.1% | NR | NR | NR | | |
| Pregnancy-Associated Mental Health | 2.3% | NR | 0.0% | 0.0% | NR | | |

Post-Delivery Admissions include inter-hospital transfers and readmissions from home.

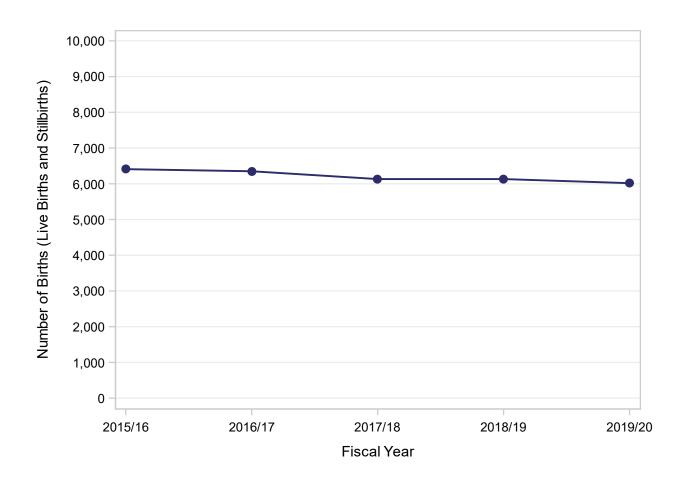
NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 84 of this document.

Perinatal Health Report 2015/16 to 2019/20 Interior Health

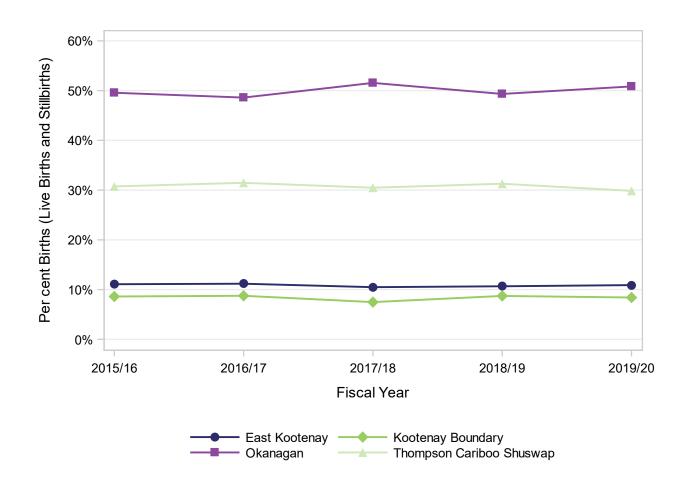
Section 3: Newborn Health

Total Births Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | | |
|-----------------|-------------|---------|---------|---------|---------|--|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | | |
| Interior Health | 6,409 | 6,350 | 6,132 | 6,132 | 6,017 | | | | |

Total Births by Facility Health Service Delivery Area Births in Interior Health: April 1, 2015 - March 31, 2020



| | | Fiscal Year | | | | | | | | | | |
|---|-------|-------------|---------|----------|-------|----------|-------|----------|-------|----------|--|--|
| | 201 | 5/16 | 2016/17 | | 201 | 7/18 | 201 | 8/19 | 201 | 9/20 | | |
| Facility Health Service Delivery Area | Count | Per cent | Count | Per cent | Count | Per cent | Count | Per cent | Count | Per cent | | |
| East Kootenay | 710 | 11.1% | 710 | 11.2% | 643 | 10.5% | 654 | 10.7% | 656 | 10.9% | | |
| Kootenay Boundary | 552 | 8.6% | 556 | 8.8% | 459 | 7.5% | 535 | 8.7% | 506 | 8.4% | | |
| Okanagan | 3,177 | 49.6% | 3,086 | 48.6% | 3,161 | 51.5% | 3,025 | 49.3% | 3,059 | 50.8% | | |
| Thompson Cariboo Shuswap | 1,970 | 30.7% | 1,998 | 31.5% | 1,869 | 30.5% | 1,918 | 31.3% | 1,796 | 29.8% | | |

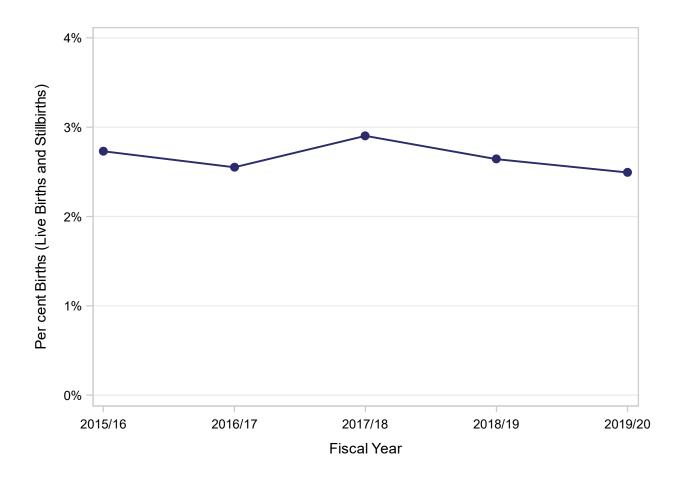
Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 3: Newborn Health.

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Births Part of a Multiple Gestation Births in Interior Health: April 1, 2015 - March 31, 2020

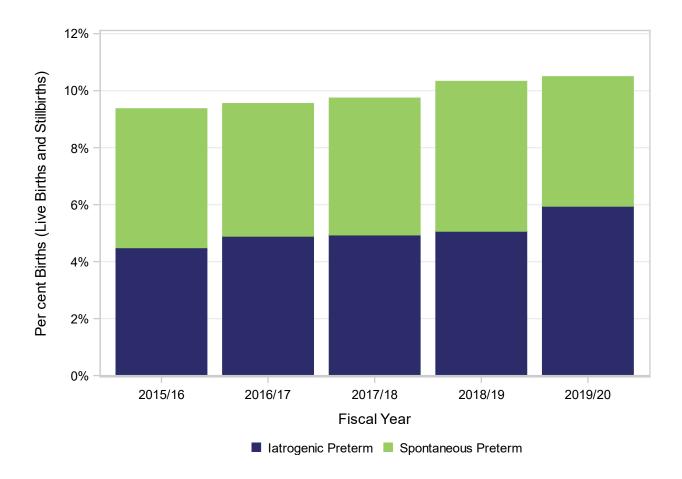


| | Fiscal Year | | | | | | | |
|--------------------|-------------------------------------|------|------|------|------|--|--|--|
| | 2015/16 2016/17 2017/18 2018/19 201 | | | | | | | |
| Multiple Gestation | 2.7% | 2.6% | 2.9% | 2.6% | 2.5% | | | |

Includes twin, triplet, and quadruplet births.

Definitions and specifications begin on Page 84 of this document.

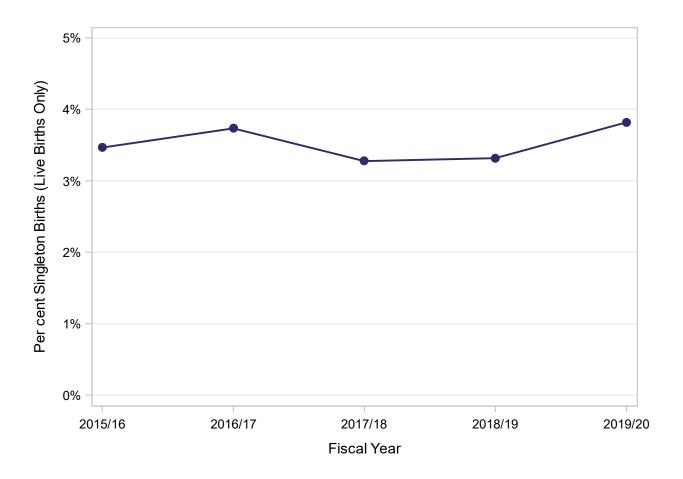
Preterm Birth Births in Interior Health: April 1, 2015 - March 31, 2020



| | | | Fiscal Year | | |
|---------------------|---------|---------|-------------|---------|---------|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| latrogenic Preterm | 4.5% | 4.9% | 4.9% | 5.1% | 5.9% |
| Spontaneous Preterm | 4.9% | 4.6% | 4.8% | 5.3% | 4.5% |
| Total Preterm | 9.4% | 9.5% | 9.7% | 10.3% | 10.5% |

Definitions and specifications begin on Page 84 of this document.

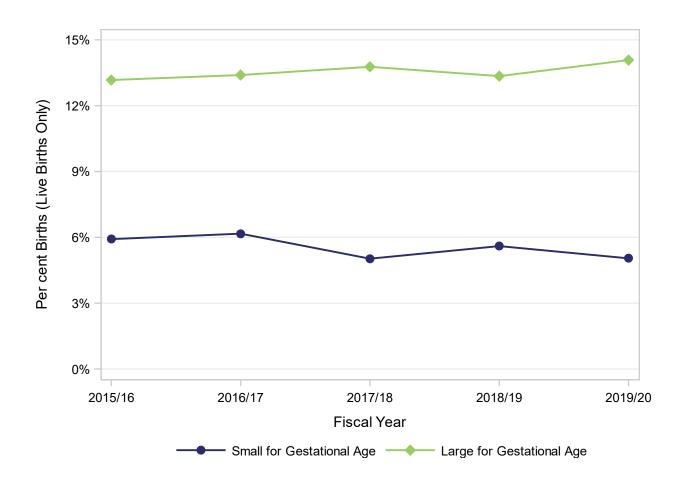
Low Birthweight Singletons Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | |
|-----------------|--------------------------------------|------|------|------|------|--|
| | 2015/16 2016/17 2017/18 2018/19 2019 | | | | | |
| Low Birthweight | 3.5% | 3.7% | 3.3% | 3.3% | 3.8% | |

Definitions and specifications begin on Page 84 of this document.

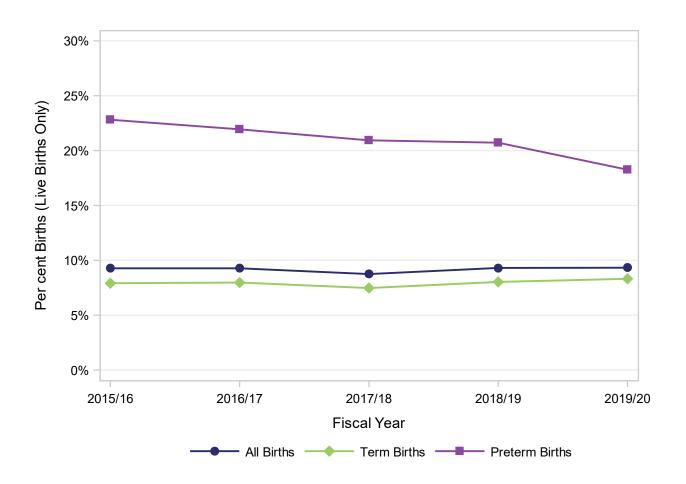
Weight for Gestational Age Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | |
|---------------------------|-------------|---------|---------|---------|---------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| Small for Gestational Age | 5.9% | 6.2% | 5.0% | 5.6% | 5.0% | | | |
| Large for Gestational Age | 13.2% | 13.4% | 13.8% | 13.3% | 14.1% | | | |

Newborn Resuscitation

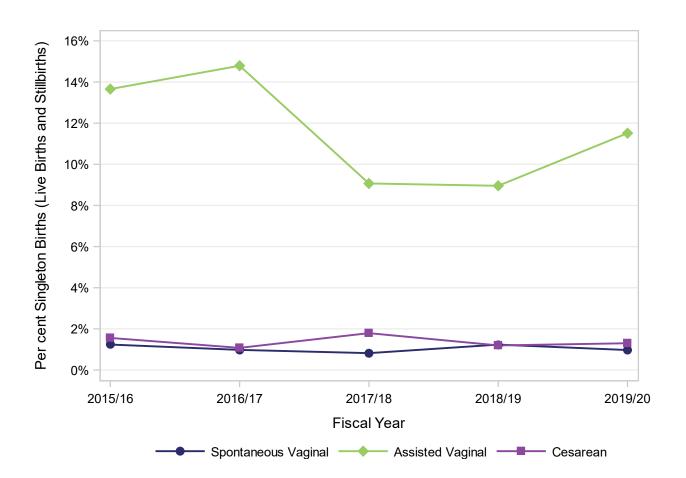
by Gestational Age Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|-----------------|-------------|---------|---------|---------|---------|--|--|
| Gestational Age | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| All Births | 9.3% | 9.2% | 8.7% | 9.2% | 9.3% | | |
| Term Births | 7.9% | 7.9% | 7.4% | 8.0% | 8.3% | | |
| Preterm Births | 22.9% | 22.1% | 20.5% | 20.2% | 18.4% | | |

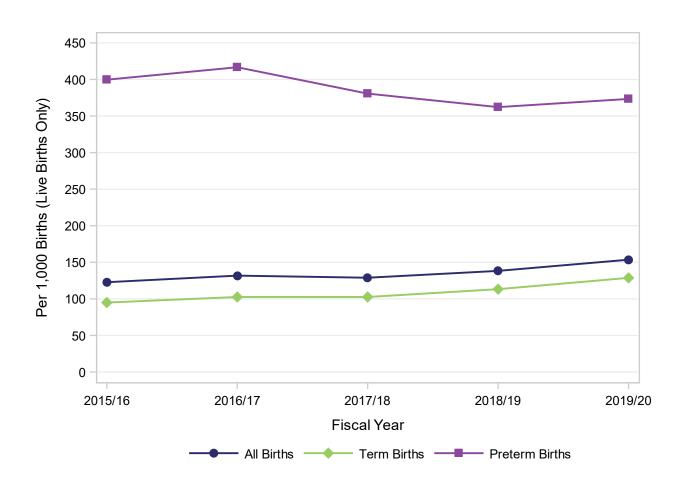
Definitions and specifications begin on Page 84 of this document.

Birth Injury by Mode of Delivery Births in Interior Health: April 1, 2015 - March 31, 2020



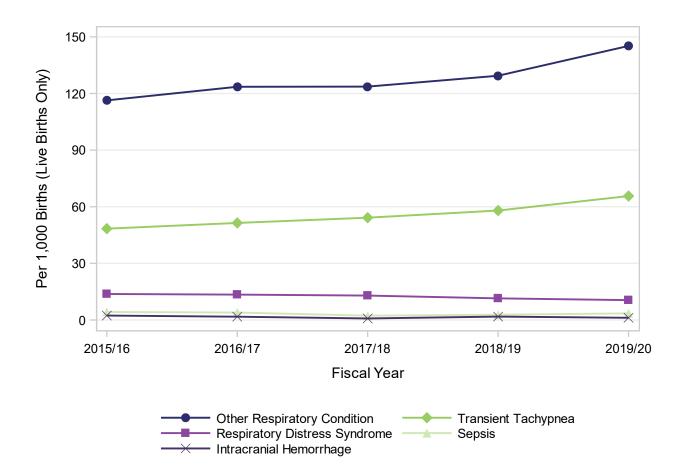
| | Fiscal Year | | | | | |
|---------------------|-------------|---------|---------|---------|---------|--|
| Mode of Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | |
| Spontaneous Vaginal | 1.2% | 1.0% | 0.8% | 1.2% | 1.0% | |
| Assisted Vaginal | 13.7% | 14.8% | 9.1% | 9.0% | 11.5% | |
| Cesarean | 1.6% | 1.1% | 1.8% | 1.2% | 1.3% | |

Neonatal Morbidity by Gestational Age Births in Interior Health: April 1, 2015 - March 31, 2020



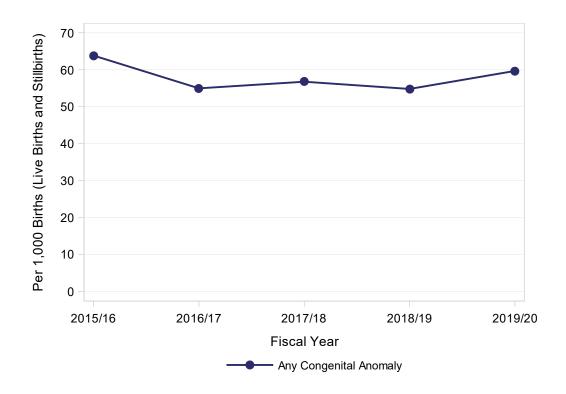
| | Fiscal Year | | | | | | |
|-----------------|-------------|-----------|-----------|-----------|-----------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Gestational Age | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | |
| All Births | 122.8 | 131.8 | 128.9 | 138.2 | 153.6 | | |
| Term Births | 95.0 | 102.6 | 102.6 | 113.3 | 128.7 | | |
| Preterm Births | 399.7 | 416.7 | 380.6 | 362.2 | 373.4 | | |

Type of Neonatal Morbidity Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | | |
|-------------------------------|-------------|-----------|-----------|-----------|-----------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| Type of Morbidity | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | | |
| Other Respiratory Condition | 116.3 | 123.6 | 123.6 | 129.4 | 145.2 | | | |
| Transient Tachypnea | 48.4 | 51.4 | 54.2 | 58.0 | 65.7 | | | |
| Respiratory Distress Syndrome | 13.8 | 13.4 | 12.9 | 11.5 | 10.5 | | | |
| Sepsis | 4.2 | 4.0 | 2.3 | 2.8 | 3.5 | | | |
| Intracranial Hemorrhage | 2.3 | 1.7 | 0.8 | 1.8 | 1.2 | | | |

Congenital Anomalies Births in Interior Health: April 1, 2015 - March 31, 2020

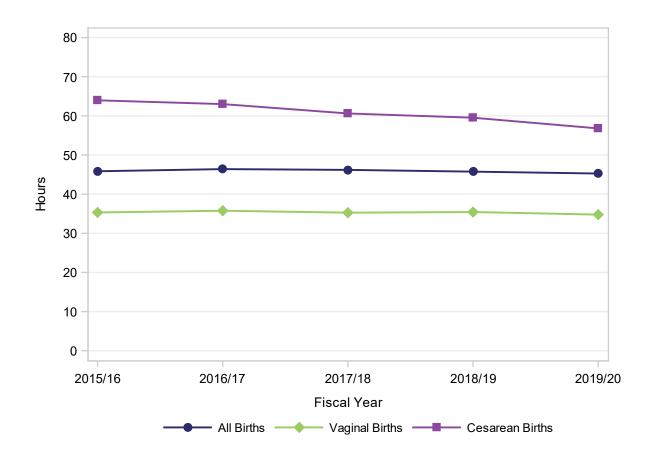


Specific Congenital Anomalies Per 1,000 Live Births and Stillbirths

| | Fiscal Year | | | | | | |
|----------------------------|-------------|-----------|-----------|-----------|-----------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Type of Congenital Anomaly | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | |
| Chromosomal | 2.5 | 2.0 | 2.3 | 2.6 | 1.5 | | |
| Circulatory System | 10.8 | 9.1 | 9.3 | 8.2 | 7.3 | | |
| Cleft Lip or Palate | 1.2 | 1.6 | 1.6 | 2.0 | 2.5 | | |
| Digestive System | 17.6 | 18.1 | 18.3 | 19.1 | 20.3 | | |
| Eye, Ear, Face, or Neck | 1.9 | 2.0 | 1.6 | 1.8 | 2.2 | | |
| Genital Organs | 8.4 | 7.6 | 6.8 | 7.0 | 6.5 | | |
| Musculoskeletal System | 12.8 | 10.9 | 11.7 | 11.3 | 11.0 | | |
| Nervous System | 2.0 | 1.7 | 1.5 | 1.1 | 1.8 | | |
| Respiratory System | 1.2 | NR | 1.8 | 2.0 | 1.0 | | |
| Urinary System | 3.7 | 4.7 | 6.0 | 4.9 | 5.5 | | |
| Other Specific Anomaly | 6.4 | 3.8 | 4.9 | 5.4 | 7.1 | | |

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Median Length of Stay (Hours) for the Birth Episode of Care Live Births by Mode of Delivery Births in Interior Health: April 1, 2015 - March 31, 2020

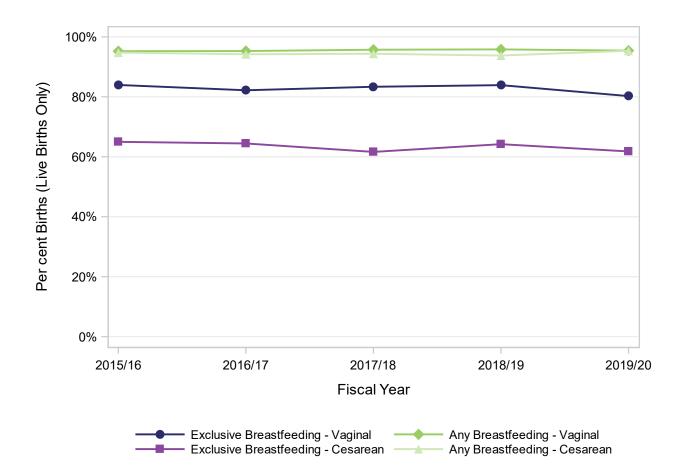


| | Fiscal Year | | | | | | | |
|-----------------|-------------|---------|---------|---------|---------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| All Births | 45.9 | 46.4 | 46.2 | 45.8 | 45.3 | | | |
| Vaginal Births | 35.3 | 35.8 | 35.3 | 35.4 | 34.8 | | | |
| Cesarean Births | 64.0 | 63.0 | 60.6 | 59.5 | 56.8 | | | |

Delivery method is based on maternal information. Multifetal pregnancies where any newborn was born by cesarean are included in the Cesarean births category.

Definitions and specifications begin on Page 84 of this document.

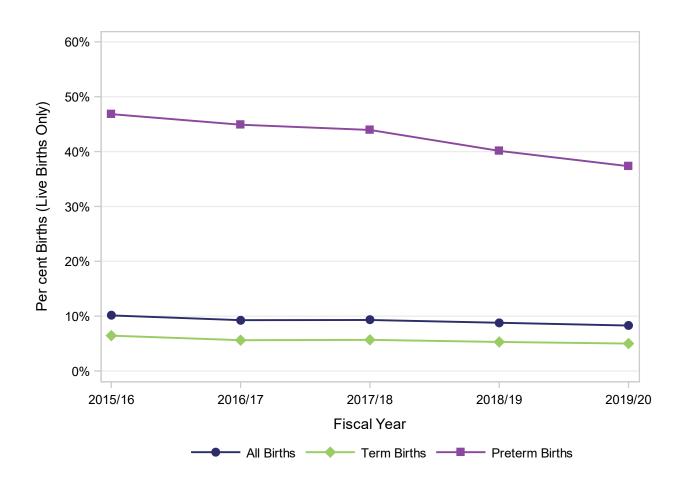
Breastfeeding During the Birth Admission by Mode of Delivery Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|------------------------------------|-------------|---------|---------|---------|---------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| Exclusive Breastfeeding - Vaginal | 84.0% | 82.2% | 83.3% | 83.9% | 80.2% | | |
| Any Breastfeeding - Vaginal | 95.2% | 95.3% | 95.7% | 95.8% | 95.4% | | |
| Exclusive Breastfeeding - Cesarean | 65.0% | 64.4% | 61.6% | 64.2% | 61.8% | | |
| Any Breastfeeding - Cesarean | 94.8% | 94.2% | 94.4% | 93.8% | 95.4% | | |

Neonatal Intensive Care Use During Birth Episode of Care by Gestational Age

Births in Interior Health: April 1, 2015 - March 31, 2020



Median Length of Stay (Days) in Neonatal Intensive Care During Birth Episode of Care by Gestational Age

| | Fiscal Year | | | | | | | |
|----------------|-------------|---------|---------|---------|---------|--|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | |
| All Births | 8.0 | 11.0 | 9.5 | 12.0 | 9.5 | | | |
| Term Births | 5.0 | 5.0 | 6.0 | 6.5 | 7.0 | | | |
| Preterm Births | 18.5 | 17.5 | 17.0 | 14.0 | 15.0 | | | |

NICU days are assigned based on baby's needs as defined by PSBC Neonatal Daily Classification Tool.

Click here to access resources on the Neonatal Daily Classification Tool.

Definitions and specifications begin on Page 84 of this document.

Transfer to Another Hospital from the Birth Admission

Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|--------------|-------------|-----------|-----------|-----------|-----------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | |
| Any Transfer | 23.5 | 21.9 | 23.1 | 21.7 | 17.6 | | |
| Higher Level | 16.4 | 14.9 | 16.4 | 16.7 | 13.9 | | |

Neonates may be transferred to another hospital for either maternal or neonatal indications.

Includes transfers from an inpatient Birth Admission directly to another acute care facility. Effective 2014/15 may also include neonates transferred directly to acute care from a birth at home.

Definitions and specifications begin on Page 84 of this document.

Transfer to Another Hospital from the Birth Admission Preterm Births

Births in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | | | |
|--------------|-------------|-----------|-----------------|-----------|-----------|--|--|
| | 2015/16 | 2016/17 | 2017/18 2018/19 | | 2019/20 | | |
| | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | |
| Any Transfer | 130.6 | 118.4 | 94.4 | 102.5 | 72.8 | | |
| Higher Level | 97.9 | 85.8 | 73.4 | 81.0 | 56.3 | | |

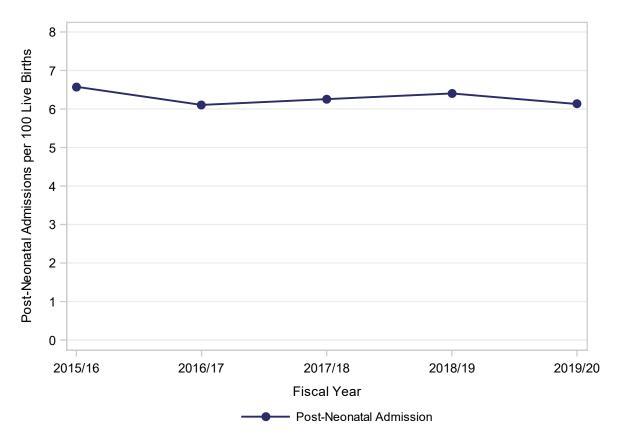
Neonates may be transferred to another hospital for either maternal or neonatal indications.

Includes transfers from an inpatient Birth Admission directly to another acute care facility. Effective 2014/15 may also include neonates transferred directly to acute care from a birth at home.

Definitions and specifications begin on Page 84 of this document.

Post-Neonatal Admissions

Births in Interior Health: April 1, 2015 - March 31, 2020



Leading Diagnoses Associated with Post-Neonatal Admissions Per cent Post-Neonatal Admissions

| | | | Fiscal Year | | |
|-----------------------------------|---------|---------|-------------|---------|---------|
| Most Responsible Diagnosis | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Jaundice | 25.2% | 28.0% | 32.7% | 28.6% | 32.4% |
| Feeding Problems | 8.1% | 4.1% | 4.5% | 8.7% | 8.7% |
| Low Birth Weight or Preterm Birth | 14.0% | 11.4% | 10.5% | 10.0% | 8.4% |
| Respiratory Distress | 4.8% | 8.3% | 6.0% | 6.6% | 8.2% |
| Respiratory Infections | 1.4% | 7.8% | 3.4% | 6.4% | 6.3% |
| Congenital Anomalies | 7.6% | 4.7% | 7.6% | 5.9% | 5.7% |
| Other Infections | 3.6% | 4.7% | 3.7% | 2.8% | 4.1% |
| Isoimmunization | 2.9% | 5.4% | 4.7% | 3.6% | 3.5% |
| Urinary Tract Infections | NR | NR | NR | 1.3% | 1.6% |
| Apnea | 2.6% | NR | 1.8% | NR | NR |

Post-Neonatal Admissions include inter-hospital transfers and readmissions from home.

NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 84 of this document.

In-Hospital Perinatal Mortality

Births in Interior Health: April 1, 2015 - March 31, 2020

| | Fiscal Year | | | | | | |
|---|-------------|-----------|-----------|-----------|-----------|--|--|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | |
| rude Stillbirth Rate = Total Stillbirths / (Live Births + Stillbirths) tillbirth Rate = Stillbirths >=500g / (Live Births + Stillbirths >=500g) arly Neonatal Mortality Rate = Early Neonatal Deaths / Live Births erinatal Mortality Rate = Perinatal Deaths / (Live Births + Stillbirths >=500g) | per 1,000 | per 1,000 | per 1,000 | per 1,000 | per 1,000 | | |
| Crude Stillbirth Rate = Total Stillbirths / (Live Births + Stillbirths) | 3.9 | 5.2 | 4.6 | 4.6 | 5.2 | | |
| Stillbirth Rate = Stillbirths >=500g / (Live Births + Stillbirths >=500g) | 2.3 | 3.0 | 2.9 | 2.3 | 3.0 | | |
| Early Neonatal Mortality Rate = Early Neonatal Deaths / Live Births | 1.1 | 1.7 | 2.3 | 1.8 | 1.3 | | |
| Perinatal Mortality Rate = Perinatal Deaths / (Live Births + Stillbirths >=500g) | 3.4 | 4.7 | 5.2 | 4.1 | 4.3 | | |
| Late Neonatal Mortality Rate = Late Neonatal Deaths / Live Births | NR | 0.0 | NR | 0.0 | NR | | |
| Total Neonatal Mortality Rate = Total Neonatal Deaths / Live Births | 1.4 | 1.7 | 2.5 | 1.8 | 1.5 | | |
| Post-Neonatal Mortality Rate = Post-Neonatal Deaths / Live Births | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | |
| Infant Mortality Rate = Infant Deaths / Live Births | 1.4 | 1.7 | 2.5 | 1.8 | 1.5 | | |

DEFINITIONS:

Crude Stillbirths: Infant born deceased at any birthweight. Includes late pregnancy terminations.

Stillbirths >=500g: Infant born deceased weighing >=500g. Excludes late pregnancy terminations.

Early Neonatal Deaths: Infant born alive died in hospital between 0 and 6 days after birth.

Perinatal Deaths: Stillbirths >=500g + early neonatal deaths.

Late Neonatal Deaths: Infant born alive died in hospital between 7 and 27 days after birth.

Total Neonatal Deaths: Early neonatal deaths + late neonatal deaths.

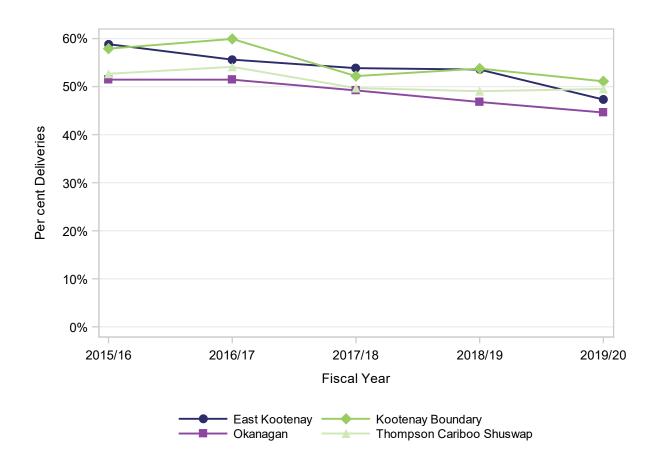
Post-Neonatal Deaths: Infant born alive died in hospital between 28 and 364 days after birth.

Infant Deaths: Total neonatal death + post-neonatal deaths.

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Perinatal Health Report 2015/16 to 2019/20 Interior Health

Deliveries with 'Normal Labour' by Facility Health Service Delivery Area Deliveries in Interior Health: April 1, 2015 - March 31, 2020

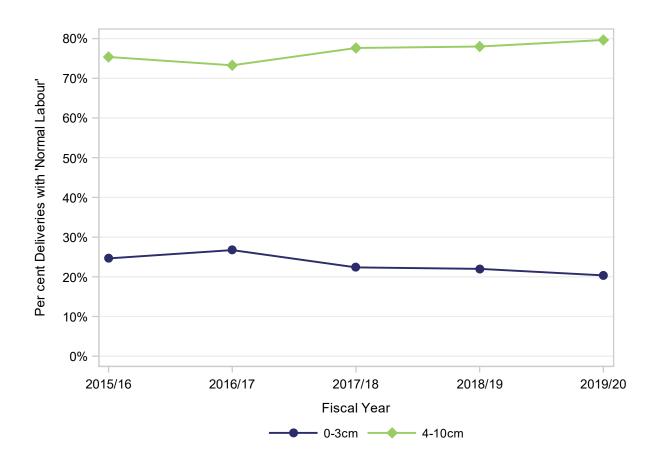


| | Fiscal Year | | | | | | | | |
|---------------------------------------|-------------|---------|---------|---------|---------|--|--|--|--|
| Facility Health Service Delivery Area | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | | |
| East Kootenay | 58.8% | 55.6% | 53.8% | 53.5% | 47.3% | | | | |
| Kootenay Boundary | 57.9% | 59.9% | 52.2% | 53.8% | 51.1% | | | | |
| Okanagan | 51.5% | 51.4% | 49.2% | 46.8% | 44.6% | | | | |
| Thompson Cariboo Shuswap | 52.7% | 54.1% | 49.7% | 49.0% | 49.5% | | | | |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 84 of this document.

Cervical Dilation at Admission Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



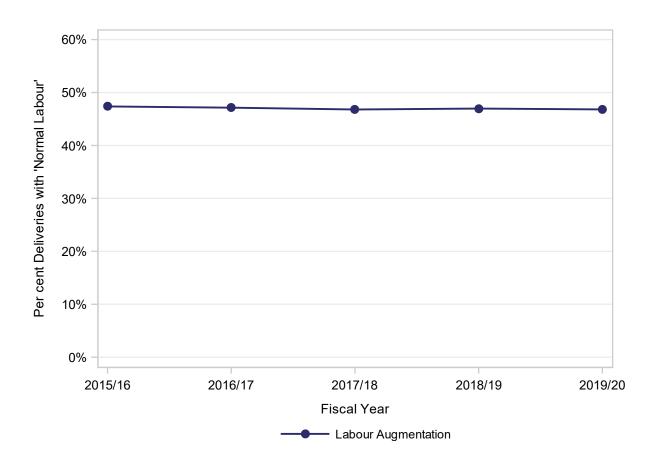
| | Fiscal Year | | | | | | | | |
|--------------------------------|-------------|---------|---------|---------|---------|--|--|--|--|
| Cervical Dilation at Admission | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | | |
| 0-3cm | 24.6% | 26.7% | 22.4% | 22.0% | 20.4% | | | | |
| 4-10cm | 75.4% | 73.3% | 77.6% | 78.0% | 79.6% | | | | |
| Missing | 29.0% | 32.3% | 32.5% | 27.9% | 26.2% | | | | |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

The proportion of women dilated 0-3 or 4-10cm is based on women with non-missing dilation at admission. Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Labour Augmentation Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Labour Augmentation by Mode of Delivery

Deliveries with 'Normal Labour'

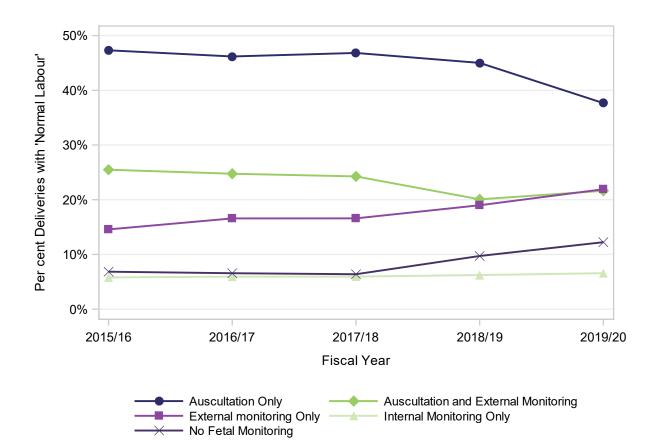
| | Fiscal Year | | | | | | | | |
|---------------------|-------------|---------|---------|---------|---------|--|--|--|--|
| Mode of Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | | |
| Spontaneous Vaginal | 42.9% | 42.7% | 41.7% | 41.6% | 41.2% | | | | |
| Assisted Vaginal | 64.6% | 61.5% | 69.7% | 68.1% | 67.4% | | | | |
| Cesarean | 65.7% | 64.9% | 66.3% | 69.3% | 66.4% | | | | |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 84 of this document.

Method of Fetal Surveillance During Labour

Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



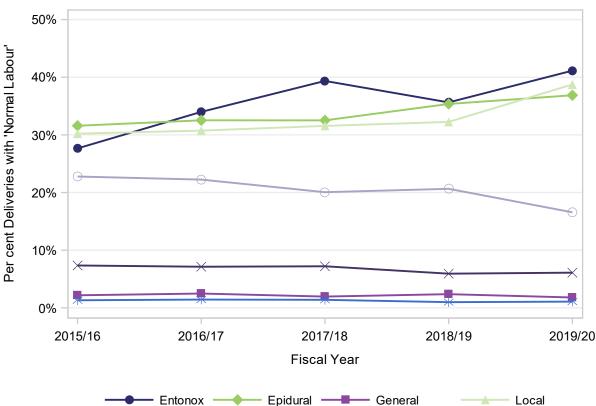
| | Fiscal Year | | | | | | | | |
|--------------------------------------|-------------|---------|---------|---------|---------|--|--|--|--|
| Method of Fetal Surveillance | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | | |
| Auscultation Only | 47.3% | 46.2% | 46.8% | 45.0% | 37.7% | | | | |
| Auscultation and External Monitoring | 25.5% | 24.7% | 24.3% | 20.1% | 21.6% | | | | |
| External Monitoring Only | 14.6% | 16.6% | 16.6% | 19.0% | 21.9% | | | | |
| Internal Monitoring Only | 5.8% | 5.9% | 5.9% | 6.2% | 6.6% | | | | |
| No Fetal Monitoring | 6.8% | 6.6% | 6.4% | 9.7% | 12.2% | | | | |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 84 of this document.

Anesthesia and Analgesia During Labour and Delivery

Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Entonox - | Epidural | _ | General | Loca |
|---------------|-----------|--------------|-------------------|---------------|------|
| \rightarrow | Spinal - | Other | \longrightarrow | No Anesthetic | |

| | | | Fiscal Year | | |
|------------------------------|---------|---------|-------------|---------|---------|
| Anesthesia or Analgesia | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Entonox | 27.7% | 34.0% | 39.4% | 35.6% | 41.1% |
| Epidural | 31.6% | 32.5% | 32.5% | 35.4% | 36.9% |
| General | 2.2% | 2.5% | 1.9% | 2.4% | 1.8% |
| Local | 30.2% | 30.7% | 31.6% | 32.3% | 38.7% |
| Spinal | 7.3% | 7.1% | 7.2% | 5.9% | 6.1% |
| Combined Spinal and Epidural | - | - | - | NR | NR |
| Other | 1.3% | 1.4% | 1.4% | 1.0% | 1.1% |
| No Anesthetic | 22.8% | 22.2% | 20.1% | 20.6% | 16.6% |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Effective April 2015, Combined spinal and epidural anaesthetic (CSE) is coded when a combined spinal and epidural are given at the same time. NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Multiple agents may be used.

Definitions and specifications begin on Page 84 of this document.

Median Length of Labour Stages (Hours) by Mode of Delivery

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2015 - March 31, 2020

| | | First S | tage (H | ours) | | | Second | Stage (| Hours) | |
|---------------------|-------|---------|---------|-------|-------|-------|--------|---------|--------|-------|
| Mode of Delivery | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 |
| Spontaneous Vaginal | 4.2 | 3.8 | 3.8 | 3.7 | 3.7 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Assisted Vaginal | 6.8 | 6.6 | 6.0 | 6.9 | 6.8 | 1.9 | 1.8 | 1.8 | 1.9 | 1.6 |
| Cesarean | 8.2 | 7.8 | 8.3 | 7.8 | 8.0 | 3.1 | 3.8 | 3.9 | 3.9 | 3.7 |

| | Α | ntepartı | um LOS | (Hours |) | Postpartum LOS (Hours) | | | Total LOS (Hours) | | | | | | |
|---------------------|-------|----------|--------|--------|-------|------------------------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|
| Mode of Delivery | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 | 15/16 | 16/17 | 17/18 | 18/19 | 19/20 |
| Spontaneous Vaginal | 3.5 | 3.6 | 3.4 | 3.2 | 3.5 | 31.8 | 32.1 | 31.6 | 31.5 | 30.7 | 36.5 | 36.2 | 36.0 | 35.6 | 35.2 |
| Assisted Vaginal | 8.2 | 7.9 | 7.4 | 8.8 | 7.4 | 46.2 | 45.2 | 46.1 | 46.4 | 45.7 | 55.8 | 54.0 | 53.3 | 55.2 | 54.0 |
| Cesarean | 10.2 | 9.6 | 9.6 | 10.2 | 9.8 | 64.7 | 64.8 | 62.4 | 63.6 | 59.8 | 76.0 | 75.5 | 72.8 | 74.4 | 71.4 |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Deliveries outside acute care facilities are excluded.

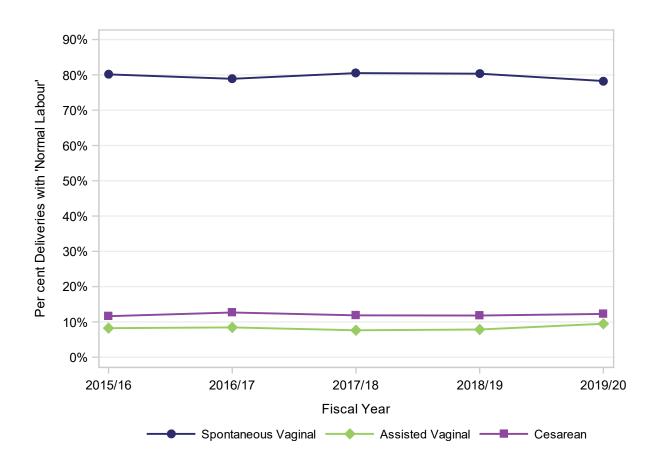
Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Section 4: 'Normal Labour'.

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Mode of Delivery Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



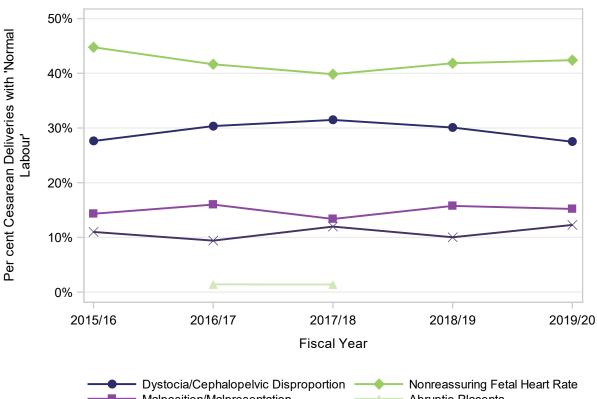
| | Fiscal Year | | | | | | | | |
|---------------------|-------------|---------|---------|---------|---------|--|--|--|--|
| Mode of Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | | | | |
| Spontaneous Vaginal | 80.1% | 78.9% | 80.5% | 80.3% | 78.3% | | | | |
| Assisted Vaginal | 8.2% | 8.4% | 7.6% | 7.9% | 9.5% | | | | |
| Cesarean | 11.6% | 12.7% | 11.9% | 11.8% | 12.3% | | | | |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 84 of this document.

Primary Indication for Cesarean Delivery

Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| ───────────────────────────────────── | |
|---------------------------------------|--|
| | |
| | |

| | Fiscal Year | | | | |
|--|-------------|---------|---------|---------|---------|
| Primary Indication for Cesarean Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Dystocia/Cephalopelvic Disproportion | 27.6% | 30.4% | 31.5% | 30.1% | 27.5% |
| Nonreassuring Fetal Heart Rate | 44.8% | 41.6% | 39.8% | 41.8% | 42.4% |
| Malposition/Malpresentation | 14.3% | 16.0% | 13.4% | 15.8% | 15.2% |
| Maternal Request | NR | NR | NR | NR | NR |
| Abruptio Placenta | NR | 1.4% | 1.4% | NR | NR |
| Placenta Previa | 0.0% | NR | NR | 0.0% | 0.0% |
| Active Herpes | 0.0% | NR | NR | NR | NR |
| Other | 11.0% | 9.4% | 12.0% | 10.0% | 12.3% |

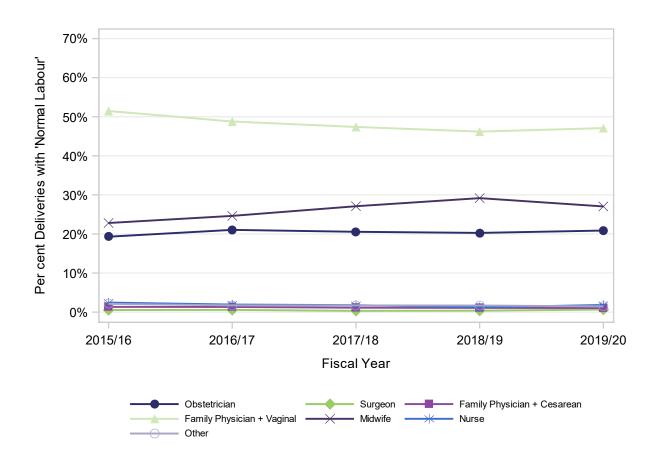
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Selected indications are included in the figure; all indications are included in the table.

NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 84 of this document.

Delivery Provider Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | |
|-----------------------------|-------------|---------|---------|---------|---------|
| Delivery Provider | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Obstetrician | 19.3% | 21.0% | 20.6% | 20.3% | 20.9% |
| Surgeon | 0.5% | 0.6% | 0.3% | 0.4% | 0.6% |
| Family Physician + Cesarean | 1.3% | 1.3% | 1.1% | 1.1% | 1.0% |
| Family Physician + Vaginal | 51.5% | 48.8% | 47.4% | 46.2% | 47.1% |
| Midwife | 22.8% | 24.6% | 27.1% | 29.2% | 27.0% |
| Nurse | 2.4% | 1.9% | 1.8% | 1.2% | 1.8% |
| Other | 2.1% | 1.7% | 1.7% | 1.7% | 1.5% |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

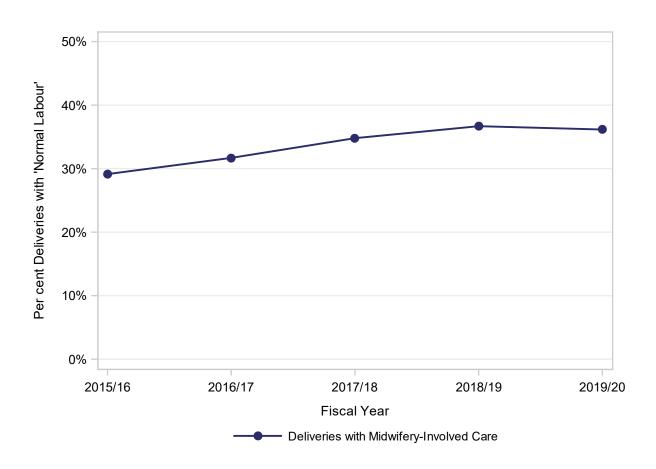
Describes the training level of the provider who delivered the baby. This may not be the same type of health care professional who provided antenatal care.

Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Deliveries with Midwifery-Involved Care

Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Deliveries with Midwifery-Involved Care by Mode of Delivery Deliveries with 'Normal Labour'

| | | Fiscal Year | | | |
|---------------------|---------|-------------|---------|---------|---------|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Spontaneous Vaginal | 31.6% | 34.1% | 36.5% | 39.0% | 38.5% |
| Assisted Vaginal | 17.7% | 19.4% | 26.8% | 25.9% | 20.8% |
| Cesarean | 20.5% | 24.9% | 28.4% | 28.1% | 32.7% |

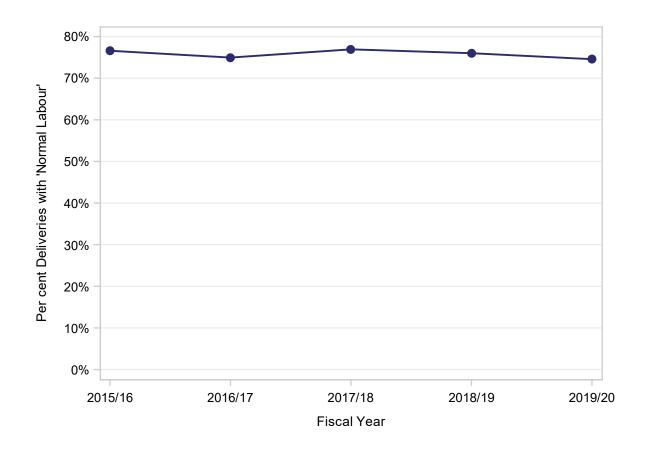
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Indicates if a registered midwife was involved at any point during prenatal care or the delivery episode. May not be the provider who performs the delivery.

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Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Deliveries with 'Normal Childbirth' Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



| | Fiscal Year | | | | |
|---------------------|-------------|---------|---------|---------|---------|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| 'Normal Childbirth' | 76.6% | 75.0% | 76.9% | 76.0% | 74.6% |

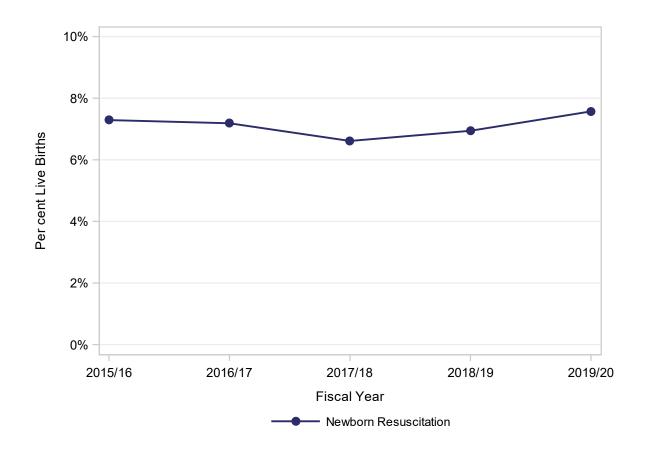
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

'Normal Childbirth' excludes the following: spinal anaesthesia, general anaesthesia, vacuum-assisted delivery, forceps-assited delivery, cesarean delivery, or episiotomy.

Definitions and specifications begin on Page 84 of this document.

Perinatal Services BC, Perinatal Health Report 2015/16 to 2019/20.

Newborn Resuscitation Babies Born from Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



Newborn Resuscitation by Mode of Delivery

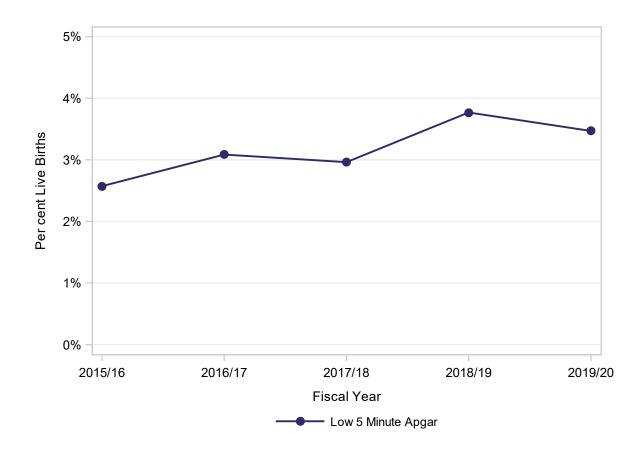
Babies Born from Deliveries with 'Normal Labour'

| | | Fiscal Year | | | |
|---------------------|---------|-------------|---------|---------|---------|
| Mode of Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Spontaneous Vaginal | 5.7% | 5.8% | 5.6% | 5.5% | 5.6% |
| Assisted Vaginal | 13.0% | 11.3% | 7.4% | 11.6% | 13.6% |
| Cesarean | 14.3% | 12.9% | 12.8% | 13.5% | 15.2% |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 84 of this document.

Low 5 Minute Apgar Score Babies Born from Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020



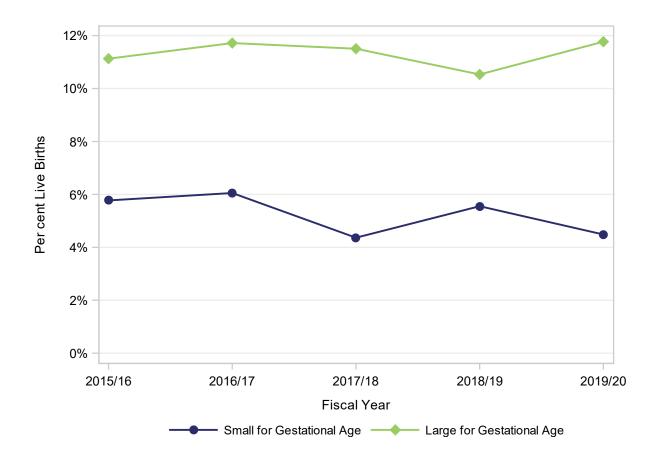
Low 5 Minute Apgar Score by Mode of Delivery Babies Born from Deliveries with 'Normal Labour'

| | Fiscal Year | | | | |
|---------------------|-------------|---------|---------|---------|---------|
| Mode of Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Spontaneous Vaginal | 2.2% | 2.1% | 2.5% | 2.7% | 2.4% |
| Assisted Vaginal | 4.3% | 6.7% | 6.1% | 7.8% | 7.2% |
| Cesarean | 3.8% | 6.6% | 3.9% | 8.0% | 7.3% |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour. Low 5 Minute Apgar Score defined as below 7 out of 10 at five minutes after birth.

Definitions and specifications begin on Page 84 of this document.

Weight for Gestational Age Babies Born from Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020

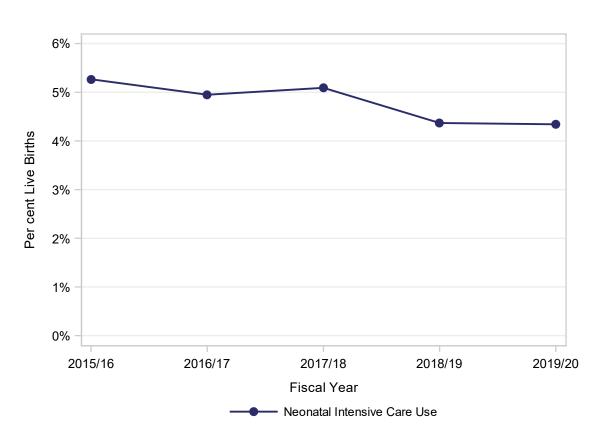


| | Fiscal Year | | | | |
|---------------------------|-------------|---------|---------|---------|---------|
| | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Small for Gestational Age | 5.8% | 6.1% | 4.4% | 5.6% | 4.5% |
| Large for Gestational Age | 11.1% | 11.7% | 11.5% | 10.5% | 11.8% |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 84 of this document.

Neonatal Intensive Care Use During Birth Episode of Care



Babies Born from Deliveries with 'Normal Labour' Deliveries in Interior Health: April 1, 2015 - March 31, 2020

Neonatal Intensive Care Use During Birth Episode by Mode of Delivery Babies Born from Deliveries with 'Normal Labour'

| | Fiscal Year | | | | |
|---------------------|-------------|---------|---------|---------|---------|
| Mode of Delivery | 2015/16 | 2016/17 | 2017/18 | 2018/19 | 2019/20 |
| Spontaneous Vaginal | 4.0% | 3.1% | 3.7% | 2.7% | 3.4% |
| Assisted Vaginal | 6.9% | 9.5% | 9.1% | 10.3% | 4.5% |
| Cesarean | 13.0% | 13.2% | 11.7% | 12.0% | 9.9% |

Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

NICU days are assigned based on baby's needs as defined by PSBC Neonatal Daily Classification Tool.

Click here to access resources on the Neonatal Daily Classification Tool.

Definitions and specifications begin on Page 84 of this document.

Definitions

Section 1: Maternal Health

Delivery Within Home Health Authority

- Woman delivered in the Health Authority in which she lives.
 - Deliveries at home with a registered midwife as delivery provider are always considered within the home health authority
 - Residents of Vancouver Coastal who deliver at BC Women's Hospital & Health Centre deliver within their home Health Authority.

Deliveries to Residents of Other Health Authorities

- Deliveries to women who reside in a different Health Authority.
 - Deliveries at home with a registered midwife are always considered within the home Health Authority.
 - For deliveries in the Provincial Health Services Authority, this represents women who are not residents of Vancouver Coastal.

Parity

• Indicates whether a woman delivered a previous pregnancy ≥20 weeks gestation or ≥500g. For nulliparous women, this is the first pregnancy meeting these criteria. Parous women have had at least one previous pregnancy meeting these criteria.

Maternal Age at Delivery

• Maternal age, in completed years, at delivery.

Antenatal Care Visits

- <5 Visits Women with fewer than five antenatal care visits documented in the PDR.
- <u>Missing</u> Women with no information documented about the number of antenatal care visits.

Pre-Pregnancy Body Mass Index (BMI)

Calculated only where pre-pregnancy weight and height are complete.

- Pre-pregnancy weight (kg)/(height (in cm))²
- <u>Underweight</u> BMI <18.5.
- Normal Weight BMI between 18.5 and 24.9.
- <u>Overweight</u> BMI between 25.0 and 29.9.
- <u>Obese</u> BMI ≥ 30.0.
- <u>BMI Missing</u> pre-pregnancy weight and/or height are not documented.

Appropriate Weight Gain During Pregnancy

Calculated only where pre-pregnancy weight, admission weight, and height are complete.

• Categorizes weight gain during pregnancy into low, appropriate, or high according to <u>guidelines</u> published by the Institute of Medicine.

Hypertensive Disorders of Pregnancy

Reflects only the most severe form of hypertension according to the hierarchy below. Women may have more than one type of hypertension diagnosed.

- 1. <u>Eclampsia</u> mother had eclampsia diagnosed during pregnancy. Mother may have had pre-existing or gestational hypertension.
- 2. <u>HELLP</u> mother had HELLP syndrome (<u>Hemolysis</u>, <u>Elevated Liver enzymes</u>, and <u>Low</u> <u>Platelet count</u>) diagnosed during pregnancy.
- 3. <u>Pre-Existing Hypertension with Pre-Eclampsia</u> mother had a documented hypertensive disorder before pregnancy and also had pre-eclampsia diagnosed in pregnancy.
- 4. <u>Pre-Eclampsia</u> mother had pre-eclampsia diagnosed during pregnancy. Mother may also have had gestational hypertension.
- 5. <u>Pre-Existing Hypertension</u> mother had a documented hypertensive disorder before pregnancy. Mother may also have had gestational hypertension.
- 6. <u>Gestational Hypertension</u> mother had hypertension diagnosed during pregnancy.
- 7. Unspecified Hypertension mother had hypertension diagnosed during pregnancy, but the specific type is not recorded.
- 8. <u>No Hypertension</u> no hypertensive conditions were documented by a care provider.

Diabetes Mellitus in Pregnancy

- <u>Pre-Existing Diabetes</u> mother had a diagnosis of diabetes mellitus type 1 or 2 documented by care provider before pregnancy.
- <u>Gestational Diabetes</u> mother had gestational diabetes documented by care provider during pregnancy.

Substance Use During Pregnancy

- <u>Cigarette Use</u> care provider documented mother reports smoking cigarettes at any time during the pregnancy. Includes women who stopped or reduced smoking during pregnancy.
- <u>Alcohol as Risk</u> care provider documents alcohol as a risk in the pregnancy. Alcohol use prior to the woman knowing she was pregnant is not included.
- <u>Binge Drinking</u> care provider documents mother consumed ≥ 4 alcoholic drinks at one time during the current pregnancy.
- <u>Other Drug Use</u> care provider documented that mother reports use of drugs (heroin/opiates, methadone, cannabinoids, stimulants, or solvents) at any time during the pregnancy OR care provider lists use of prescription, 'other' or unknown other drug as a risk to the pregnancy. Drug use prior to the woman knowing she was pregnant may be included.

Maternal Screening Tests

- <u>Hepatitis B Test Done</u> mother was screened for the Hepatitis B virus (Hepatitis B surface antigen, or HBsAg) during pregnancy.
- <u>HIV Test Done</u> mother was screened for the Human Immunodeficiency Virus (HIV) during pregnancy.
- <u>Group B Strep Test Done</u> Woman who delivered a baby at 35 weeks gestation or more was screened for Group B Streptococcus.

Uptake of Prenatal Genetic Screening Program

- Indicates whether the woman had sufficient biological markers tested to complete screening for at least one of the following conditions: open neural tube defect, trisomy, 18, or trisomy 21.
- Includes women with any of the following combinations of samples on prenatal genetic screening or diagnostic tests: Integrated Prenatal Screen (IPS), Serum Integrated Prenatal Screen (SIPS), Quad screen (QUAD), nuchal translucency (NT) ultrasound plus QUAD, NT plus pregnancy-associated plasma protein A (PAPP-A), NT ultrasound, or Alpha-fetoprotein (AFP) during pregnancy as offered by the <u>BC Prenatal Genetic Screening Program</u>.
- Women who exclusively undergo privately paid screening tests are not included.

Types of Down Syndrome and Trisomy 18 Screening Performed

- Calculated only for women who had prenatal genetic screening for trisomy 21 and 18 performed as offered by the <u>BC Prenatal Genetic Screening Program.</u>
- Indicates the types of prenatal genetic screening for trisomy 21 and 18 performed.
- NT ultrasound plus QUAD, NT ultrasound plus PAPP-A, and NT ultrasound are included as part of IPS.
- Women who exclusively undergo privately paid screening tests are not included.

Uptake of Invasive Diagnostic Testing by Indication

- Includes women that had chorionic villus sampling or amniocentesis performed.
- Indicates the type of indication for invasive diagnostic testing to be performed.

Use of Artificial Reproductive Technology

• Use of in vitro fertilization or other artificial reproductive technology (e.g. ovulation induction, intracytoplasmic sperm injection [ICSI], embryo transfer) to conceive the current pregnancy.

Section 2: Labour and Delivery

Labour Augmentation

Labour for the current delivery was augmented by a care provider. Any of the following methods may be used:

- Artificial Rupture of Membranes
- <u>Oxytocin</u> woman received oxytocin, pitocin, or syntocinon to augment labour.
- <u>Other</u> a method not specified above was used to augment labour.

Labour Induction

Labour for the current delivery was induced by a care provider. Any of the following methods may be used:

- <u>Artificial Rupture of Membranes</u>
- <u>Oxytocin</u> woman received oxytocin, pitocin, or syntocinon to initiate labour.
- <u>Prostaglandin</u> woman received a prostaglandin to initiate labour.
- <u>Other</u> a method not specified above was used to initiate labour.

Primary Indication for Labour Induction

Primary reason noted in the maternal chart for labour induction. In the case of multiples, the reason noted for the first baby is assigned to the entire delivery.

- <u>Prelabour Rupture of Membranes</u> rupture of membranes before the onset of uterine contractions at term.
- <u>Post Dates</u> the pregnancy has continued past the due date (41 completed weeks gestation).
- <u>Hypertension in Pregnancy</u> woman had high blood pressure, including pre-existing or gestational hypertension.
- Other Maternal Condition woman had a condition other than those specified above.
- <u>Fetal Compromise</u> medical concern about the health of the fetus.
- <u>Diabetes</u> woman had diabetes of any type (gestational, type 1, or type 2).
- Fetal Demise
- Logistics inability for woman to access supportive health care in reasonable time.
- <u>Antepartum Hemorrhage</u> woman had bleeding after 20 weeks' gestation but before labour.
- <u>Chorioamnionitis</u> woman had a cervicovaginal infection.
- <u>Other</u> other reason not captured above.
- <u>Unknown</u> reason for induction is unclear, unknown, or not documented.

Fetal Surveillance During Labour

- <u>Auscultation Only</u> fetal surveillance was conducted only using intermittent auscultation.
- <u>Auscultation and External Electronic Monitoring</u> fetal surveillance was conducted using intermittent auscultation and external electronic fetal monitoring.
- <u>External Electronic Monitoring Only</u> fetal surveillance was conducted only using external electronic fetal monitoring.
- <u>Internal Electronic Monitoring Only</u> fetal surveillance was conducted only using internal electronic fetal monitoring.
- <u>No Fetal Monitoring</u> no fetal monitoring was conducted during labour.

Mode of Delivery

- <u>Vaginal</u>
 - <u>Spontaneous</u> the baby was delivered vaginally without assistance of vacuum or forceps extractors.
 - <u>Assisted Vaginal</u> the newborn was delivered vaginally with the assistance of vacuum and/or forceps extraction.
 - <u>Vacuum</u> the baby was delivered vaginally with the assistance of a vacuum extractor.
 - <u>Forceps</u> the baby was delivered vaginally with the assistance of forceps.
 - <u>Forceps and Vacuum</u> the baby was delivered vaginally with the assistance of vacuum and forceps extractors.
- <u>Cesarean</u> the baby was delivered by an incision in the mother's abdomen.
 - <u>Elective Primary</u> woman without a previous cesarean had a cesarean delivery with elective timing.
 - <u>Elective Repeat</u> woman with a history of cesarean delivery had a cesarean delivery with elective timing.
 - <u>Emergency Primary</u> woman without a previous cesarean had a cesarean delivery with urgent or emergent timing.
 - <u>Emergency Repeat</u> woman with a history of cesarean delivery had a cesarean delivery with urgent or emergent timing.

Perineal Trauma

- <u>Third or Fourth Degree Laceration</u> the woman experienced a significant perineal tear during delivery.
- <u>Cervical Tear</u> the woman experienced a cervical tear during delivery.
- <u>Episiotomy</u> an episiotomy was performed during delivery.

Primary Indication for Cesarean Delivery

Primary reason noted in the maternal chart for cesarean delivery. For multifetal pregnancies, this reflects the reason the first baby was delivered by cesarean. This may not be the first baby delivered (e.g. if the first baby was delivered vaginally and the second baby by cesarean).

- <u>Repeat Cesarean</u> woman with a history of cesarean is not a VBAC candidate and has a medical indication for repeat cesarean delivery.
- <u>Nonreassuring Fetal Heart Rate</u> increased or decreased fetal heart rate (tachycardia or bradycardia), especially during and after uterine contractions.
- <u>Dystocia/Cephalopelvic Disproportion</u> abnormal of difficult labour. Includes failure to progress, incoordinate uterine activity, and cephalopelvic disproportion (large baby for maternal pelvis).
- <u>VBAC Declined/Maternal Request</u> woman was eligible for a vaginal birth after previous cesarean (VBAC) but declines, OR woman with or without a previous cesarean requests a cesarean delivery.
- <u>Breech</u> the fetus' buttocks were the presenting part.
- <u>Malposition/Malpresentation</u> the orientation of the fetal head and or body to the maternal pelvis is not favourable for a vaginal delivery (e.g. occipitoposterior position or transverse lie). Excludes breech presentation.
- <u>Placenta Previa</u> the placenta is low in the uterus, partially or completely covering the cervix.
- <u>Abruptio Placenta</u> premature separation of the placenta from the uterus.
- <u>Active Herpes</u> mother had an active herpes outbreak that could be transmitted to the infant during vaginal delivery.
- <u>Other</u> other reason not captured.
- <u>Unknown</u> reason for cesarean is unclear, unknown, or not documented.

Vaginal Birth after Cesarean

- <u>VBAC Eligible</u> woman was either noted by a care provider as being eligible for VBAC in this pregnancy, OR whose eligibility was unknown and had a singleton pregnancy with the head as the presenting part.
- <u>VBAC Attempted</u> women was were either noted by a care provider as having attempted a VBAC, OR whose attempt at VBAC was unknown but whose labour was either augmented or induced.
- <u>VBAC Success</u> women who were eligible for and attempted a VBAC and delivered vaginally.

Anesthetic/Analgesic Use During Labour and Delivery

- Entonox the mother received entonox (nitrous oxide gas) for pain management.
- <u>Epidural</u> the mother received anesthesia in the epidural space of the spine for pain management.
- <u>General</u> the mother received general anesthesia for pain management.
- Local the mother received localized anesthetic agents for pain management.
- <u>Spinal</u> the mother received anesthesia in the subarachnoid space of the spine for pain management.

- <u>Combined Spinal and Epidural</u> the mother received anesthesia both in the subarachnoid space and epidural space of the spine for pain management.
- <u>Other</u> mother received another type of anesthetic or analgesic agent including pudendal anesthesia not specified above.
- <u>No Anesthetic</u> no analgesic or anesthetic agents were used for pain management.

Health Care Providers

- <u>Delivery Provider</u> describes the training level of the individual who delivered the baby. May not be the same type of care provider as a woman used for her antenatal care. In the case of multifetal pregnancies, the highest training level of any delivering provider is assigned to the delivery.
 - Family Physician + Vaginal a family physician performed a vaginal delivery.
 - <u>Family Physician + Cesarean</u> a family physician performed a cesarean delivery.
- <u>Deliveries With Midwifery-Involved Care</u> A registered midwife was involved at any point in maternal or newborn care. A registered midwife may not have been the delivery provider.

Deliveries at Home

• Woman delivered at home with a registered midwife as delivery provider.

Length of Stay for Delivery Episode of Care

- <u>Antepartum Length of Stay</u> hours between when a woman is admitted to an acute care facility and when she delivers a baby.
- <u>Postpartum Length of Stay</u> hours between when a woman delivers a baby in an acute care facility and her discharge from the Delivery Episode of Care.
- <u>Total Length of Stay</u> hours between when a woman is admitted to an acute care facility for delivery and her discharge from the Delivery Episode of Care.

Maternal Morbidity

Morbidity may be documented during any Maternal Admission.

- <u>Liver Complications</u> mother had confirmed or suspected cholestatis, acute fatty liver, or liver hematoma.
- <u>Postpartum Hemorrhage with Transfusion</u> mother had a postpartum bleed and received blood products via transfusion.
- Urinary Tract Infection
- Sepsis mother had confirmed or suspected sepsis, including puerperal sepsis.
- <u>Wound Infection</u> mother had confirmed or suspected infection or disruption of an obstetric or surgical wound.
- <u>HELLP</u> mother had confirmed or suspected HELLP syndrome (Hemolysis, Elevated Liver enzymes, and Low Platelet count).
- <u>Anesthetic Complications</u> mother had a confirmed or suspected complication related to the anesthetic administered during the delivery episode. Spinal or epidural headache and unspecified complications are excluded.
- <u>Antepartum Hemorrhage with Transfusion</u> mother had an antepartum (≥20 weeks' gestation) or intrapartum bleed and received blood products via transfusion during the delivery episode.
- Eclampsia mother had confirmed or suspected eclampsia.
- <u>Shock</u> mother had confirmed or suspected obstetric shock.
- <u>Pulmonary Embolism</u> mother had a confirmed or suspected blood clot in the lungs.

- <u>Postpartum Hemorrhage with Hysterectomy</u> mother had a postpartum bleed and underwent a complete or subtotal (partial) hysterectomy.
- <u>Stroke</u> mother had a confirmed or suspected stroke.

Adverse Outcome of Labour or Delivery

Maternal adverse events are included during the Delivery Admission. Among singleton deliveries.

- <u>Maternal Severe Adverse Event</u> woman experienced uterine rupture during labour, assisted ventilation or resuscitation, or in-hospital death.
- <u>Maternal Moderate Adverse Event</u> woman experienced third or fourth degree perineal tear; blood transfusion; or unanticipated operative procedure
- <u>Newborn Severe Adverse Event</u> singleton baby was stillborn or died in-hospital
- <u>Newborn Moderate Adverse Event</u>
 - Singleton baby ≥2,000 grams at birth experienced birth trauma, OR
 - Singleton baby at term ≥2,500 grams at birth without a congenital anomaly or hydrops was born at a facility without a NICU and transferred to a facility with a NICU within 24 hours, admitted to NICU ≥ 2 days, or had an Apgar at 5 minutes
 <7.

Maternal Transfer to Another Hospital

- Women may be transferred to another hospital for either maternal or neonatal indicatons.
 - NOTE: Effective April 1, 2014, women transferred directly to acute care from a delivery at home may be included in these transfer indicators. See page vi for more information.
- <u>Any Transfer</u> woman was transferred from the Delivery Admission to a(n) (different) acute care facility.
- <u>Higher Level</u> woman was transferred directly from the location at which she delivered to a facility that is capable of providing a higher intensity of care.
 - <u>Third tier facilities</u> BC Women's Hospital & Health Centre, St. Paul's Hospital Royal Columbian Hospital, and Victoria General Hospital.
 - <u>Second tier facilities</u> Surrey Memorial Hospital (effective April 1, 2013 discharges), Kelowna General Hospital, Nanaimo Regional General Hospital, Royal Inland Hospital, and University Hospital of Northern British Columbia.

Post-Delivery Admissions

- Total number of eligible inter-hospital transfers or readmissions among women who delivered a baby. A woman can have more than one Post-Delivery Admission. Ratio of Post-Delivery Admissions per 100 deliveries.
 - Admissions with a most responsible diagnosis of Z76.3 (Healthy person accompanying sick person) are excluded.
- <u>Diagnosis associated with Post-Delivery Admission</u> the diagnosis that accounted for the majority of time the woman stayed in hospital. May not be the reason for admission. Per 100 Post-Delivery Admissions.
 - The following account for the majority of diagnoses associated with Post-Delivery Admissions for 2015/16 to 2019/20, inclusive:
 - <u>Routine Postpartum Care</u> –care and examination immediately after delivery or routine postpartum follow-up, including change or removal of drains and planned wound closure.
 - Postpartum Hemorrhage

- <u>Postpartum Infection</u> includes sepsis, obstetric wound infection, urinary tract infection, or post-procedural infection.
- <u>Other Diseases Complicating Pregnancy</u> Diseases of organ systems that complicate or are aggravated by pregnancy.
- <u>Hypertension or Eclampsia</u> includes essential hypertension, gestational hypertension, pre-eclampsia, eclampsia, or HELLP.
- <u>Other Wound Issues</u> includes care of perineal or vaginal tears, uterine rupture or dehiscence, disruption or hematoma of surgical wound, or cardiac surgical complications.
- <u>Complications of Anesthesia</u> reactions to or complications of anesthesia.
- <u>Care of Breasts</u> includes breast infection, lactation problems, or supervision of lactation mother.
- <u>Retained Placenta Without Hemorrhage</u>.
- <u>Pregnancy-Associated Mental Health</u> includes postpartum depression and puerperal psychosis.

Section 3: Newborn Health

Birth Type

Defined in accordance with BC Vital Stats.

- <u>Live Birth</u> baby displayed signs of life (breathing, heart beat, pulsation of umbilical cord, or movement of voluntary muscle) at birth.
- <u>Stillbirth</u> baby born at ≥20 weeks' estimated gestation or ≥500 grams birthweight does not display any of the above signs. Fetal death may have occurred <20 weeks' gestation.

Multiple Gestation

• There was more than one fetus in the pregnancy (twin, triplet, or quadruplet).

Gestational Age

- <u>Term</u> baby was delivered at or after 37 completed weeks' estimated gestation.
- Preterm baby was delivered before 37 completed weeks' estimated gestation.
 - <u>Iatrogenic Preterm</u> baby was delivered following induced labour or by cesarean delivery without labour, before 37 completed weeks' estimated gestation.
 - <u>Spontaneous Preterm</u> baby was delivered following onset of spontaneous labour before 37 completed weeks' estimated gestation.

Weight for Gestational Age

- <u>Small for Gestational Age</u> babies born weighing less than the 10th percentile of weight for their sex and gestational age. Based on BC-specific growth curves available <u>here</u>.
- <u>Large for Gestational Age</u> babies born weighing more than the 90th percentile of weight for their sex and gestational age. Based on BC-specific growth curves available <u>here</u>.

Low Birthweight Singletons

• Singleton babies born weighing less than 2,500 grams. Includes both preterm and term babies.

Newborn Resuscitation

- Baby received resuscitation by intermittent positive pressure, chest compressions, or drugs. Captures interventions up to 60 minutes of age or until admission to neonatal intensive care, whichever came first.
 - <u>NOTE</u>: Drugs may be given for either resuscitation or stabilization.

Birth Injury

• Baby sustained a confirmed or suspected injury to the skeleton, organs, or nerves during birth.

Neonatal Morbidity

Morbidity may be documented during any Baby Admission.

- <u>Other Respiratory Condition</u> baby had a confirmed or suspected respiratory condition (other than respiratory distress syndrome or transient tachypnea).
- <u>Transient Tachypnea</u> baby had confirmed or suspected transient tachypnea.
- <u>Respiratory Distress Syndrome</u> baby had confirmed or suspected respiratory distress syndrome.
- <u>Sepsis</u> baby had confirmed or suspected sepsis.
- Intracranial Hemorrhage baby had a confirmed or suspected brain bleed.

Congenital Anomalies

Anomaly may be diagnosed during any Baby Admission.

- Baby has a confirmed or suspected congenital anomaly noted by a care provider.
 - <u>Chromosomal</u> includes Trisomy 13, 18, and 21; sex chromosome abnormalities (i.e. Turner's syndrome, Kleinfelter's syndrome); and other monosomies, deletions, and chromosomal reattangements.
 - <u>Circulatory System</u> includes malformations of the heart chambers, septa, valves, veins and arteries.
 - o Cleft Lip or Palate
 - <u>Digestive System</u> includes malformation of the tongue, mouth, pharynx, esophagus, stomach, intestines, liver, gallbladder, bild ducts, and pancreas.
 - <u>Eye, Ear, Face, or Neck</u> includes malformations of the eye and its structures, tear ducts, internal and external ear, neck, and lips.
 - <u>Genital Organs</u> includes malformations of male or female genitals, and indeterminate sex or hermaphroditism.
 - <u>Musculoskeletal System</u> includes malformations of hip, feet, fingers, limbs, skull, spine, diaphragmatic hernia, and other malformations of the abdominal wall (including gastroschisis).
 - <u>Nervous System</u> includes anencephaly, microcephaly, hydrocephalus, spina bifida, and other malformations of the brain and spinal cord.
 - <u>Respiratory System</u> includes malformation of the nose, larynx, trachea, bronchus, and lung.
 - <u>Urinary System</u> includes malformation of the kidneys, bladder, and ureter.
 - <u>Other Specific Anomaly</u> includes disorders of the skin, breast, hair, nails, syndromes affecting multiple systems, malformations due to outside causes (including alcohol and drugs), and all malformations not otherwise classified.

Length of Stay for the Birth Episode of Care

• Hours between a baby's birth at an acute care facility and his/her discharge from the Birth Episode of Care.

Breastfeeding

Reflects feeding during the Birth Admission only, including at time of discharge.

- <u>Exclusive Breastfeeding</u> baby received only breast milk (via the breast, a bottle, or other feeding method).
- <u>No Breastfeeding</u> baby received only breast milk substitute.
- <u>Non-Exclusive Breastfeeding</u> baby received both breast milk and breast milk substitute.
- <u>Any Breastfeeding</u> baby received breast milk (via the breast, a bottle, or other feeding method) at any time during the Birth Admission. Baby may also have received breast milk substitute.

Neonatal Intensive Care Use During Birth Episode of Care

- During the Birth Episode of Care, baby required Level 2a, 2b, 3a, OR 3b care (as defined by the PSBC Neonatal Daily Classification Tool) for at least one day.
 - Length of stay in days is calculated as (discharge date admission date). If admission and discharge are on the same date, length of stay is one day.
 - o <u>Click here</u> to access resources on the PSBC Neonatal Daily Classification Tool.

Transfer to Another Hospital

- Babies may be transferred to another hospital for either maternal or neonatal indications.
 - NOTE: Effective April 1, 2014, babies transferred directly to acute care from a birth at home may be included in these transfer indicators. See page vii for more information.
- <u>Any Transfer</u> baby was transferred from the Birth Admission to a different acute care facility.
- <u>Higher Level</u> baby was transferred directly from the facility of birth to a facility that is capable of providing a higher intensity of care. Baby was transferred from any site without a neonatal intensive care unit (NICU) to one with a NICU, or from a site with a Level II NICU to a site with a Level III NICU.
 - <u>Facilities with a Level III NICU</u> BC Women's Hospital & Health Centre, Royal Columbian Hospital, Surrey Memorial Hospital, and Victoria General Hospital.
 - <u>Facilities with a Level II NICU</u> Abbotsford Regional Hospital & Cancer Centre, Burnaby Hospital, Kelowna General Hospital, Lions Gate Hospital, Nanaimo Regional General Hospital, Richmond Hospital, Royal Inland Hospital, St. Paul's Hospital, and University Hospital of Northern British Columbia.
- <u>Same or Lower Level</u> baby was transferred directly from the facility of birth to a facility that provides a similar or lower intensity of care.

Post-Neonatal Admissions

- <u>Post-Neonatal Admission</u> total number of baby transfer or readmission episodes. A baby can have more than one Post-Neonatal Admission. Ratio of Post-Neonatal Admissions per 100 live births.
 - Admissions with a most responsible diagnosis of Health supervision and care of other healthy infant and child, Healthy person accompanying sick person, or Other boarder in health-care facility (Z76.2, Z76.4, or Z76.4) are excluded.
- <u>Diagnosis Associated with Post-Neonatal Admission</u> the diagnosis that accounted for the majority of time the baby stayed in hospital. May not be the reason for admission. Per 100 Post-Neonatal Admissions.
 - The following account for the majority of diagnoses associated with Post-Neonatal Admissions for 2015/16 to 2019/20, inclusive:

- Jaundice
- Low Birth Weight or Preterm Birth
- <u>Feeding Problems</u> includes reflux, feeding difficulties, abnormal weight loss, and dehydration.
- <u>Congenital Anomalies</u> includes all congenital malformations, deformations, and chromosomal abnormalities.
- <u>Respiratory Infections</u> includes whooping cough, pneumonias, and upper and lower respiratory tract infections.
- <u>Other Infections</u> major inclusions are bacterial and viral infections, sepsis, external and middle ear infections, select abscesses, impetigo, cellulitis, osteomyelitis, congenital infections, and post-procedural infection.
- Isoimmunization
- Apnea obstructed sleep apnea or apnea of the newborn.
- Urinary Tract Infections

Perinatal Mortality

Death occurred during any Baby Admission. Includes only deaths that occurred at an acute care facility. Complete pregnancy terminations are included only in the Crude Stillbirth Rate.

- <u>Crude Stillbirths</u> baby was born deceased.
 - <u>Crude Stillbirth Rate</u> = stillbirths / (live births + stillbirths) x 1,000.
- <u>Stillbirths >=500g</u> baby weighing ≥500g was born deceased.
 - <u>Stillbirth Rate</u> = stillbirths \geq 500g / (live births + stillbirths \geq 500g) x 1,000.
- <u>Early Neonatal Death</u> baby born alive died in hospital between 0 and 6 days after birth.
 <u>Early Neonatal Mortality Rate</u> = early neonatal death / live births x 1,000.
- <u>Perinatal Death</u> stillbirth ≥500g OR baby born alive died in hospital between 0 and 6 days after birth.
 - <u>Perinatal Mortality Rate</u> = (stillbirths ≥500g + early neonatal deaths) / (live births + stillbirths ≥500g) x 1,000.
- Late Neonatal Death baby born alive died in hospital between 7 and 27 days after birth.
 - <u>Late Neonatal Mortality Rate</u> = late neonatal death / live births x 1,000.
- <u>Post Neonatal Death</u> baby born alive died in hospital between 28 and 364 days after birth.
 - Post Neonatal Mortality Rate = post neonatal death / live births x 1,000.
 - Infant Death baby born alive died in hospital before 365 days after birth.
 - Infant Mortality Rate = (early neonatal + late neonatal + post-neonatal deaths) / live births x 1,000.

Section 4: 'Normal Labour'

Women with 'Normal Labour' are identified in accordance with the <u>Joint Policy Statement</u> on Normal Childbirth. Women with 'Normal Labour' deliver a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour. Women with 'Normal Labour' do not have a history of cesarean delivery.

Cervical Dilation at Admission

• Dilation, in centimetres, of the cervix at the time the woman was admitted to acute care for delivery.

Duration of Labour Stages

- <u>Length of First Stage of Labour</u> hours between the onset of regular contractions and complete cervical dilation (10cm).
- <u>Length of Second Stage of Labour</u> hours between complete cervical dilation and the delivery of the baby.

'Normal Childbirth'

• According to the <u>Joint Policy Statement on Normal Childbirth</u>, 'Normal Childbirth' excludes the following: spinal anesthesia, general anesthesia, vacuum-assisted delivery, forceps-assited delivery, cesarean delivery, or episiotomy.

Low 5 Minute Apgar Score

• Babies whose Apgar score – a composite of five criteria that assesses an infant's need for medical attention – is below 7 out of 10 at five minutes after birth.

Episodes Included in the Perinatal Health Report This report is based on delivery admissions meeting the following minimum criteria:

Delivery Admission

| Include: | |
|---------------------------------------|---|
| Delivery | MOTHER_ADMISSION.screen_source = "DL" AND |
| | April 1, 2015 ≤ discharge_date ≤ March 31, 2020 |
| Linked maternal-newborn records | BABY_ADMISSION.screen_source = "NB" AND BABY_ADMISSION.mother_id is not null |
| Exclude from all but Crude Stillbirth | |
| Rate: | |
| Complete termination of pregnancy | (DIAGNOSES.diagnosis_cd begins with O04 (Mother) or |
| | (PROCEDURES_PERFORMED.procedure_code begins with 5CA88 OR 5CA89 |
| | (Mother) and woman delivered a singleton pregnancy)) |
| | OR |
| | DIAGNOSES.diagnosis_cd begins with P96.4 (Baby) for all babies linked to mother |

Other Maternal Admissions

| Admission t | уре | Criteria |
|-----------------|-------------------------------|--|
| Maternal Adn | nission | MOTHER_ADMISSION.screen_source = "DL" or "PP" |
| | | For any woman whose Delivery Admission meets the inclusion criteria, above. |
| Post-Delivery | <u>Admission</u> | MOTHER_ADMISSION.screen_source = "PP" or (MOTHER_ADMISSION.screen_source = |
| | | "DL" and actual_place_of_delivery=2) AND |
| | | most responsible diagnosis is not Z76.3 |
| | | most responsible diagnosis is not 270.5 |
| | | For any woman whose Delivery Admission meets the inclusion criteria, above. |
| <u>Delivery</u> | Episode start | MOTHER_ADMISSION.screen_source = "DL" and April 1, 2015 ≤ discharge_date ≤ March |
| Episode of | | 31, 2020 |
| <u>Care</u> | Include all admissions | MOTHER_ADMISSION.screen_source = "PP" and 101 ≤ institution_to <973 |
| | linked to the delivery where: | |
| | Episode end | (MOTHER_ADMISSION.screen_source = "DL" or "PP") and institution_to <101 |
| | | |
| | | For any woman whose Delivery Admission meets the inclusion criteria, above. |

Baby Admissions

| Admission t | зуре | Criteria |
|---------------|----------------------------|--|
| Birth Admissi | ion | BABY_ADMISSION.screen_source = "NB" |
| | | |
| | | For any baby linked to a woman whose Delivery Admission meets the inclusion criteria, |
| | | above. |
| Newborn Adr | mission | BABY_ADMISSION.screen_source = "NB" or "XF" |
| | | For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, |
| | | above. |
| Post-Neonata | al Admission | (BABY_ADMISSION.screen_source = "NB" and MOTHER.actual_place_of_delivery=2) or |
| | | BABY_ADMISSION.screen_source = "XF" |
| | | AND |
| | | most responsible diagnosis is not Z76.2, Z76.3, or Z76.4 |
| | | For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, |
| | | above. |
| Birth | Episode start | BABY_ADMISSION.screen_source = "NB" |
| Episode of | Include all admissions | BABY_ADMISSION.screen_source = "XF" and |
| Care | linked to the birth where: | discharge_to = "O" and |
| | | $101 \leq institution_to < 973$ |
| | Episode end | BABY_ADMISSION.screen_source = "NB" or "XF" AND |
| | | (discharge_to ≠ "O" or institution_to = 973 or 974) |
| | | For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, |
| | | above. |

Detailed Specifications for Selected Variables

| | PDR variables | CIHI Codes |
|-------------|--|------------|
| Fiscal year | | |
| 2015/16 | screen_source = "DL" AND April 1, 2015 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2016 | |
| 2016/17 | screen_source = "DL" AND April 1, 2016 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2017 | |
| 2017/18 | screen_source = "DL" AND April 1, 2017 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2018 | |
| 2018/19 | screen_source = "DL" AND April 1, 2018 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2019 | |
| 2019/20 | screen_source = "DL" AND April 1, 2019 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2020 | |
| Parity | | |
| Nulliparous | <pre>(term = 0 and premature = 0 and prev_cesarian_deliv = 0 and prev_vaginal_deliv = 0) OR (term = null and premature = null and prev_cesarian_deliv = null and prev_vaginal_deliv = null and living = 0) OR (any of term, premature, prev_cesarian_deliv, or prev_vaginal_deliv = null and gravida =1)</pre> | |
| Parous | (term ≥ 1 or premature ≥1 or prev_cesarian_deliv ≥1 or prev_vaginal_deliv ≥1) OR (term = null and premature = null and prev_cesarian_deliv = null and prev_vaginal_deliv = null and living ≥1) | |

| | PDR variables | | CIHI Codes |
|--|---|-----|---|
| Hypertensive Disorders of Pregnancy (hierarchy) | | | |
| Eclampsia | | | diagnosis code begins with O15 |
| HELLP syndrome | pp_hellp_syndrome = "Y" | | |
| | discharge_date ≥ April 1, 2012 | AND | diagnosis_code begins with O142 |
| Pre-Existing Hypertension with Pre-Eclampsia | | | diagnosis_code begins with O11 |
| Pre-Eclampsia | discharge_date < April 1, 2012 AND pp_hellp_syndrome ≠ "Y" | AND | diagnosis_code begins with O14 |
| | discharge_date ≥ April 1, 2012 AND pp_hellp_syndrome ≠ "Y" | AND | diagnosis_code begins with O140, O141, or O149 |
| Pre-Existing Hypertension | | | diagnosis_code begins with O10 |
| Gestational Hypertension (includes mild pre-eclampsia for discharges before April 1, 2012) | | | diagnosis_code begins with O13 |
| Unspecified Hypertension | | | diagnosis_code begins with O16 |
| Diabetes Mellitus in Pregnancy | | | |
| Gestational Diabetes | risk_code = 13 or 14 | OR | diagnosis_code begins with O248 |
| Pre-Existing Diabetes | risk_code = 15 or 16 | OR | diagnosis_code begins with O245, O246, or O247 |
| Artificial Reproductive Technology | ivf = "Y" | OR | diagnosis_code for mother = Z37xx1 or baby = Z38xx1 |
| Augmentation of Labour | labour_aug_flg = "Y" | | |
| Induction of Labour | labour_ind_flg = "Y" | | |
| Method of Fetal Surveillance During Labour | | | |
| Auscultation Only | auscultation = "Y" and | | |
| | elec_fetal_monitor_external ≠ "Y" and | | |
| | elec_fetal_monitor_internal ≠ "Y" and | | |
| | no_fetal_monitoring ≠ "Y" | | |
| Auscultation and External Electronic | auscultation = "Y" and | | |
| Monitoring | elec_fetal_monitor_external = "Y" and | | |
| | elec_fetal_monitor_internal ≠ "Y" and | | |
| Entrancia Marita in Oak | no_fetal_monitoring ≠ "Y" | | |
| External Electronic Monitoring Only | auscultation ≠ "Y" and elec fetal monitor external = "Y" and | | |
| | elec fetal monitor internal \neq "Y" and | | |
| | no fetal monitoring ≠ "Y" | | |
| Internal Electronic Monitoring Only | auscultation ≠ "Y" and | | |
| | elec fetal monitor external \neq "Y" and | | |
| | elec_fetal_monitor_internal = "Y" and | | |
| | no fetal monitoring ≠ "Y" | | |
| No Fetal Monitoring | (auscultation ≠ "Y" and | | |
| ······································ | elec fetal monitor internal ≠ "Y" and | | |
| | elec_fetal_monitor_external ≠ "Y" and | | |
| | no_fetal_monitoring= "Y") | | |
| | OR | | |

| | PDR variables | | CIHI Codes |
|---|--|-----|---|
| | | | |
| | (auscultation ≠ "Y" and | | |
| | <pre>elec_fetal_monitor_internal ≠ "Y" and</pre> | | |
| | elec_fetal_monitor_external ≠ "Y" and | | |
| | no_fetal_monitoring ≠ "Y") | | |
| Delivery Provider | | | |
| Obstetrician | delivered_by = 2 or 6 for any infant | | |
| Surgeon | else if delivered_by = 12 | | |
| Family Practice + Cesarean | else if delivered_by = 1 or 8 | AND | procedure_code begins with 5MD60 (cesarean delivery) |
| Family Practice + Vaginal | else if delivered_by = 1 or 8 | AND | procedure_code does not begin with 5MD60 |
| Midwife | else if delivered_by = 3 or 7 | | |
| Nurse | else if delivered by = 4 | | |
| Other | else if <u>delivered_by</u> = 5, 9, 10, or 11 | | |
| Deliveries with Midwifery-Involved Care | institution id = 976 or 977 or | OR | doctor service = 11004 |
| - | midwife case = "Y" or | | on DOCTORS or PROCEDURES_PERFORMED for mother |
| | delivered by = 3 or 7 for any infant or | | or baby record |
| | actual place of delivery = 1 or 2 | | |
| Delivery at Home | institution id = 976 or 977 or | | |
| • | actual place of delivery = 2 | | |
| Anesthesia or Analgesia | | | |
| Entonox | entonox flg = "Y" | | |
| Epidural | epidural_fig = "Y" | OR | <pre>anesthetic_type = 3 for a procedure_code beginning with 5MD or 5PC</pre> |
| General | general_flg = "Y" | OR | anesthetic_type = 1 or 4 for a procedure_code beginning with 5MD or 5PC |
| Local | local_flg = "Y" | OR | anesthetic_type = 7 for a procedure_code beginning with 5MD or 5PC |
| Narcotic | narcotic flg = "Y" | | |
| Spinal | spinal_fig = "Y" | OR | <pre>anesthetic_type = 2 for a procedure_code beginning with 5MD or 5PC</pre> |
| Combined Spinal and Epidural | | | anesthetic_type = C for a procedure code beginning with 5MD or 5PC |
| Other | other flg = "Y" or pudendal flg = " Y" | | |
| No Anesthetic | none flg = "Y" | | |
| Perineal Trauma | | | |
| Third or Fourth Degree Laceration | laceration flg = "Y" AND | OR | diagnosis code begins with O702 or O703 |
| Ŭ | laceration degree = 3 or 4 | | |
| Episiotomy | episiotomy flg = "Y" | | |
| Cervical Tear | cervical tear flg = "Y" | OR | diagnosis code begins with O713 |
| Mode of Delivery | | | |
| Spontaneous Vaginal | | | procedure_code begins with 5MD50, 5MD51, 5MD52, 5MD56AA, 5MD56NL, 5MD56NP, 5MD56NU, 5MD56NM, |

| | PDR variables | | CIHI Codes |
|-------------------------------------|---|-----|---|
| | | | 5MD56NQ, 5MD56NV, 5MD56GH, 5MD56PA, 5MD56PD, |
| | | | 5MD56PG, 5MD56PB, 5MD56PE, or 5MD56PH |
| Assisted Vaginal | | | procedure_code begins with 5MD53, 5MD54, 5MD55, |
| | | | 5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC, 5MD56PF, or |
| | | | 5MD56PJ |
| Vacuum | | | procedure_code begins with 5MD54 |
| Forceps | | | procedure_code begins with 5MD53, 5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC, 5MD56PF, or 5MD56PJ |
| Forceps and Vacuum | | | procedure_code begins with 5MD55 |
| | | | procedure code begins with 5MD54 |
| | | | AND |
| | | | any of the following procedure codes is also on the abstract: |
| | | | 5MD53, 5MD55, 5MD56NN, 5MD56NR, 5MD56NW, |
| | | | 5MD56PC, 5MD56PF, or 5MD56PJ |
| Cesarean | | | procedure_code begins with 5MD60 |
| | csection_type = 1, 2, 3, or 4 | AND | no procedure code begins with 5MD5 or 5MD60 |
| Emergency Primary | csection_type = 2 | AND | procedure_code begins with 5MD60 |
| Emergency Repeat | csection_type = 4 | AND | procedure_code begins with 5MD60 |
| Elective Primary | csection_type = 1 | AND | procedure_code begins with 5MD60 |
| Elective Repeat | csection_type = 3 | AND | procedure_code begins with 5MD60 |
| Vaginal Birth After Cesarean (VBAC) | | | |
| VBAC Eligible | (vbac_eligible = "Y" and | | |
| | prev_cesarian_deliv ≥1) | | |
| | OR | | |
| | (vbac_eligible = "U" or " " and | | |
| | baby_presentation_delivery = 6 and | | |
| | prev_cesarian_deliv ≥1 and | | |
| | Maximum(baby_sequence) = 1) | | |
| | (vbac_eligible = "U" or " " and | AND | procedure_code begins with 5MD5 |
| | baby_presentation_delivery = 9 and | | |
| | gestational age ≥ 37 and | | |
| | prev_cesarian_deliv ≥1 and | | |
| | Maximum(baby_sequence) = 1) | | |
| VBAC Attempted | (vbac_attempted = "Y" and | | |
| | prev_cesarian_deliv is ≥1) | | |
| | OR | | |
| | (vbac_attempted = "U", "A", or " " and | | |
| | prev_cesarian_deliv ≥1 and | | |
| | ((labour_ind_flg = "Y") or (labour_spont_flg = "Y" | | |
| VBAC Success | and labour_aug_flg = "Y"))) Woman VBAC Eligible and VBAC Attempted | | |
| | (above) | AND | procedure_code begins with 5MD5 |
| Maternal Morbidity | | | |

| | PDR variables | | CIHI Codes |
|---|--|-----|--|
| Liver Complications (updated 2016) | pp_fatty_liver = "Y" or pp_liver_hematoma = "Y" | OR | diagnosis_code begins with K760, O266, or O904 |
| Urinary Tract Infection (updated 2016) | pp_uti = "CY", "PY", "OT", "UN" | OR | diagnosis_code begins with N10, N11, N12, N15, N30, N34, N390, O23, O861, O862, or O863 |
| Sepsis (updated 2016) | pp_pos_blood_culture = "Y" | OR | diagnosis_code begins with A40, A41, O753, or O85 |
| Wound Infection | pp wound infection = "Y" | OR | diagnosis code begins with O860 or T814 |
| Postpartum Hemorrhage with Transfusion | blood transfusion flg = "Y" | AND | diagnosis code begins with O72 |
| Postpartum Hemorrhage with Hysterectomy | | | diagnosis_code begins with O72 AND (procedure_code begins with 5MD60CB, 5MD60KE, 5MD60RC, or 5MD60RD; OR procedure_code begins with 1RM87LAGX and extent = SU; OR procedure_code begins with 1RM89 AND there is no |
| | | | procedure_code beginning with 1PL74, 1RS74, or 1RS80) |
| Antepartum Hemorrhage with Transfusion | blood_transfusion_flg = "Y" and risk_code = 8 | | |
| | blood_transfusion_flg = "Y" | AND | diagnosis_code begins with O441, O45, O46, O67, or O694 |
| Eclampsia | | | diagnosis_code begins with O15 |
| HELLP | pp_hellp_syndrome = "Y" | | |
| | discharge_date ≥ April 1, 2012 | AND | diagnosis_code begins with O142 |
| Anesthetic Complications | | | diagnosis_code begins with O29, O740, O741, O742, O743, O744, O747, O748, O749, O89, or T885 |
| Shock | | | diagnosis_code begins with O751 |
| Stroke | | | diagnosis_code begins with G459, I6, or I7 |
| Pulmonary Embolism | | | diagnosis_code begins with O88 |
| Adverse Outcome of Labour or Delivery | | | |
| Moderate Maternal Adverse Outcome | <pre>screen_source = "DL" AND blood_transfusion_flg = "Y" OR (laceration_flg = "Y" AND laceration_degree = 3 or 4)</pre> | OR | diagnosis_code begins with O702 or O703 OR procedure_code begins with 5PC73JT, 5PC80JM, 5PC91GA, or 5PC91GC OR (diagnosis_code begins with O722 AND procedure_code begins with 1KT51, 1RM13, 1RM87LAGX, 1RM89, 5MD60CB, 5MD60KE, 5MD60RC, 5MD60RD, 5PC91HT, or 5PC91LA) |
| Moderate Neonatal Adverse Outcome | screen_source = "NB" and admission_weight ≥ 2,500 and gestational age ≥ 37 and ((nicu_ii+nicu_iii ≥ 2) OR | AND | diagnosis_code does not begin with P832 or Q |

| | PDR variables | | CIHI Codes |
|---------------------------------|--|-----|--|
| | (Length of stay <24 hours and institution_to = 104, 202, 109, 116, 703, 609, 501, 401, 302, 130, 115, 112, or 102) OR (0 ≤ apgar 5 minutes <7)) | | |
| Severe Maternal Adverse Outcome | screen_source = "DL" | AND | diagnosis_code begins with O7118, O95 or O97 OR procedure_code begins with 1GZ30CJ, 1GZ30JH, 1GZ31CAND, 1GZ31CBND, 1GZ31CRND, 1GZ31GPND, 1GZ38JAND, 1GZ38JANE, 1GJ50CANG, or 1GJ50CATS |
| Severe Neonatal Adverse Outcome | screen_source = "NB" and admission_weight \geq 2,500 and gestational age \geq 37 and (discharge_to = "D" or stillbirth = "A") | AND | diagnosis_code does not begin with P832 or Q |
| | screen_source = "NB" and admission_weight ≥ 2,000 | AND | diagnosis_code begins with P100, P101, P104, P108, P109, P113, P114, P115, P122, P13 (excluding P134), P140, P141, P142, P143, P148, or P149 |
| Maternal Length of Stay | | | |
| Antepartum Length of Stay | For the Delivery Episode of Care, hours between (delivery_date delivery_time – admission_date admission_time) where institution_id for the Delivery Admission ≠ 976 or 977 | | |
| Postpartum Length of Stay | For the Delivery Episode of Care, hours between (discharge_date discharge_time – delivery_date delivery_time) where institution_id for the Delivery Admission ≠ 976 or 977 | | |
| Total Length of Stay | For the Delivery Episode of Care, hours between (discharge_date discharge_time – admission_date admission_time) where institution_id for the Delivery Admission ≠ 976 or 977 | | |
| Maternal Transfers | | | |
| Transferred to Acute Care | screen_source= "DL" and institution_to = 101, 102, 104, 105, 106, 107, 109, 111, 112, 113, 115, 116, 121, 123, 128, 130, 131, 134, 135, 136, 201, 202, 203, 204, 206, 217, 301, 302, 303, 305, 309, 401, 402, 403, 404, 405, 406, 408, 409, 417, 419, 501, 502, 507, 508, 510, 511, | | |

| | PDR variables | | CIHI Codes |
|--|---|-----|---|
| | 601, 602, 603, 604, 606, 609, 651, 654, 655, 701, 702, 703, 704, 705, 707, 708, 713, 714, 715, 716, 717, 752, 753, 754, 755, 756, 801, 803, 804, 851, 854, 859, 901, 902, 903, 904, 906, 907, 912, 917, 918, 929, 973, or 974 | | |
| Transfer to a Higher Level of Care | screen_source = "DL" AND discharge_date < April 1, 2013 AND (institution_id ≠ 104, 109, 202, 102, 302, 401, 703, or 501 AND institution_to = 104, 105, 109, 202, 102, 302, 401, 703, or 501) OR | | |
| | (institution_id ≠ 104, 109, 202, or 102 AND institution to =104, 105, 109, 202, or 102) | | |
| | screen_source = "DL" AND discharge_date ≥ April 1, 2013 AND (institution_id ≠ 104, 109, 202, 102, 116, 302, 401, 703, or 501 AND institution_to = 104, 105,109,116, 202, 102, 302, 401, 703, or 501) | | |
| | OR (institution_id ≠104, 109, 202, or 102 AND institution_to = 104, 105, 109, 202, or 102) | | |
| Post-Delivery Admission Diagnoses | | | |
| Routine Postpartum Care (updated 2016) | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with Z390, Z392, or Z488 |
| Postpartum Hemorrhage | Post-Delivery Admission | AND | <pre>diagnosis_type = "M" and diagnosis_cd begins with O72</pre> |
| Postpartum Infection (updated 2016) | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with A40, A41, N10, N11, N12, N15, N30, N34, N390, O753, O85, O86, or T814 |
| Other Diseases Complicating Pregnancy | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with O99 |
| Hypertension or Eclampsia (updated 2016) | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with I100, O10, O11, O13, O14, O15, or O16 |
| Other Wound Issues | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with O70, O71, O75404, O900, O901, O902, or T813 |
| Care of Breasts | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with O91, O92, or Z391 |
| Retained Placenta Without Hemorrhage | Post-Delivery Admission | AND | diagnosis type = "M" and diagnosis cd begins with O73 |

| | PDR variables | | CIHI Codes |
|---|---|-----|--|
| Pregnancy-Associated Mental Health | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with F53 |
| Complications of Anesthesia | Post-Delivery Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with O74, O89, or T885 |
| Multiple Gestation | multiple birth count >1 | | |
| In-Hospital Perinatal Mortality | | | |
| Crude Stillbirths (includes complete late | stillbirth = "A", "P", or "U" | | |
| pregnancy terminations) | | | |
| Stillbirth >=500g | stillbirth = "A", "P", or "U" and admission weight ≥ 500 | | |
| Early Neonatal Death | stillbirth = "N" and | | |
| Early Neonatal Death | discharge_to = "D" and | | |
| | (discharge_date – date of birth) <7 days | | |
| Late Neonatal Death | stillbirth = "N" and | | |
| | discharge to = "D" and | | |
| | 7 days \leq (discharge_date – date_of_birth) \leq 27 | | |
| | days | | |
| Post Neonatal Death | stillbirth = "N" and | | |
| | discharge_to = "D" and | | |
| | 28 days \leq (discharge_date – date_of_birth) \leq 364 | | |
| | days | | |
| Birth Injury | | | diagnosis_code begins with P100, P101, P104, P108, P109, P11, P12, P13, P14, or P15 |
| Neonatal Morbidity | | | |
| Sepsis | baby pos blood culture = "Y" | OR | diagnosis_code begins with A40, A41, or P36 |
| Intracranial Hemorrhage | | | diagnosis code begins with P10 or P52 |
| Respiratory Distress Syndrome | | | diagnosis code begins with P220 |
| Transient Tachypnea | | | diagnosis code begins with P221 |
| Other Respiratory Condition | | | diagnosis code begins with A481, J, P228, P229, P23-P27, |
| | | | P280, P281, P282, P283, P284, P288, P289, Q30-Q34, |
| | | | Q791, R091, or Z902 |
| | 0 ≤ apgar_5_minutes <7 | AND | diagnosis_code begins with P285 |
| Any Neonatal Morbidity | | | diagnosis_code begins with A40, A41, A481, J, P10, P220, P221, P228, P229, P23-P27, P36, P280, P281, P282, P283, |
| | | | P284, P288, P289, P52, Q30-Q34, Q791, R091, or Z902 |
| | 0 ≤ apgar_5_minutes <7 | AND | diagnosis_code begins with P285 |
| Congenital Anomalies | | | |
| Any Congenital Anomaly | | | diagnosis_code begins with Q |
| Chromosomal | | | diagnosis_code begins with Q90-Q99 |
| Circulatory System | | | diagnosis_code begins with Q20-Q28 |
| Cleft Lip or Palate | | | diagnosis_code begins with Q35-Q37 |
| Digestive System | | | diagnosis_code begins with Q38-Q45 |
| Eye, Ear, Face, or Neck | | | diagnosis_code begins with Q10-Q18 |

| | PDR variables | | CIHI Codes |
|-----------------------------|---|----|---|
| Genital Organs | | | diagnosis_code begins with Q50-Q56 |
| Musculoskeletal System | | | diagnosis code begins with Q65-Q79 |
| Nervous System | | | diagnosis code begins with Q00-Q07 |
| Respiratory System | | | diagnosis code begins with Q30-Q34 |
| Urinary System | | | diagnosis_code begins with Q60-Q64 |
| Other Specific Anomaly | | | diagnosis_code begins with Q80-Q89 |
| Newborn Length of Stay | For the Birth Episode of Care, hours between (discharge_date discharge_time – admission_date admission_time) where institution_id for the Birth Admission ≠ 976 or 977 | | |
| Newborn Feeding | | | |
| Exclusive Breastfeeding | newborn_feeding = "BR" | | |
| Non-Exclusive Breastfeeding | newborn_feeding = "BF" | | |
| No Breastfeeding | newborn_feeding = "FR" | | |
| Any Breastfeeding | newborn_feeding = "BR" or "BF" | | |
| Weight for Gestational Age | | | |
| Small for Gestational Age | Baby's weight is below the 10 th percentile for gestational age and sex Based on gestational age, sex, multiple_birth_count, and admission_weight where screen_source = "NB" and sex = "M" or "F" | | |
| Large for Gestational Age | Baby's weight is above the 90 th percentile for gestational age and sex Based on gestational age, sex, multiple_birth_count, and admission_weight where screen_source = "NB" and sex = "M" or "F" | | |
| Low Birthweight Singletons | screen_source = "NB" and 5 ≤ admission_weight < 2500 and stillbirth = "N" and multiple birth count = 1 | | |
| Premature Birth | | | |
| Spontaneous Preterm | gestational age <37 and labour_spont_flg = "Y" gestational age <37 and labour_none_flg = "Y" and (cesarean_type = 0 | OR | Mother does not have a procedure_code beginning with 5MD60) |
| latrogenic Preterm | gestational age <37 and labour_ind_flg = "Y" gestational age <37 and | | |
| | labour_none_flg = "Y" and | | |

| | PDR variables | CIHI Codes |
|--|--|------------|
| | cesarean_type = 1, 2, 3, or 4 | |
| Neonatal Intensive Care Use | nicu_ii > 0 or nicu_iii > 0 for the Birth Episode of Care | |
| Neonatal Transfer | | |
| Transferred to Acute Care | screen_source= "NB" and discharge_to= "O" and institution_to = 101, 102, 104, 105, 106, 107, 109, 111, 112, 113, 115, 116, 121, 123, 128, 130, 131, 134, 135, 136, 201, 202, 203, 204, 206, 217, 301, 302, 303, 305, 309, 401, 402, 403, 404, 405, 406, 408, 409, 417, 419, 501, 502, 507, 508, 510, 511, 601, 602, 603, 604, 606, 609, 651, 654, 655, 701, 702, 703, 704, 705, 707, 708, 713, 714, 715, 716, 717, 752, 753, 754, 755, 756, 801, 803, 804, 851, 854, 859, 901, 902, 903, 904, 906, 907, 912, 917, 918, 929, 973, or 974 | |
| Transfer to Higher Level of Care | screen_source = "NB" and institution_id \neq 102, 104, 109, 112, 116, 121, 130, 202, 302, 401, 501, 609, or 703 and discharge_to = "O" and institution_to = 102, 104, 105, 109, 112, 116, 121, 130, 202, 302, 401, 501, 609, or 703 screen_source = "NB" and discharge_to = "O" and institution_id \neq 104, 109, 116, or 202 and institution to = 104, 105, 109, 116, or 202 | |
| Transfer to Acute Care Facility with Equal or Lower Level of Care | screen_source = "NB" and discharge_to = "O" and institution_id = 104, 109, 116, or 202 and institution_to = 101, 102, 104, 105, 106, 107, 109, 111, 112, 113, 115, 116, 121, 123, 128, 130, 131, 134, 135, 136, 201, 202, 203, 204, 206, 217, 301, 302, 303, 305, 309, 401, 402, 403, 404, 405, 406, 408, 409, 417, 419, 501, 502, 507, 508, 510, 511, 601, 602, 603, 604, 606, 609, 651, 654, 655, 701, 702, 703, 704, 705, 707, 708, 713, 714, 715, 716, 717, 752, 753, 754, 755, 756, 801, 803, 804, 851, 854, 859, 901, 902, 903, 904, 906, 907, 912, 917, 918, or 929 screen_source= "NB" and | |

| | PDR variables | | CIHI Codes |
|-----------------------------------|--|-----|--|
| | discharge_to = "O" and | | |
| | institution_id = 102, 112, 121, 130, 302, 401, 501, | | |
| | 609, or 703 and | | |
| | institution_to = 101, 102, 106, 107, 111, 112, 113, | | |
| | 115, 121, 123, 128, 130, 131, 134, 135, 136, | | |
| | 201, 203, 204, 206, 217, 301, 302, 303, 305, | | |
| | 309, 401, 402, 403, 404, 405, 406, 408, 409, | | |
| | 417, 419, 501, 502, 507, 508, 510, 511, 601, | | |
| | 602, 603, 604, 606, 609, 651, 654, 655, 701, 702, 703, 704, 705, 707, 708, 712, 714, 715 | | |
| | 702, 703, 704, 705, 707, 708, 713, 714, 715, | | |
| | 716, 717, 752, 753, 754, 755, 756, 801, 803, 804, 851, 854, 859, 901, 902, 903, 904, 906, | | |
| | 907, 912, 917, 918, or 929 | | |
| Resuscitation After Birth | ippv mask flg = "Y" or | | |
| Resuscitation Alter Birth | ippv_ett_flg = "Y" or | | |
| | chest compress flg = "Y" or | | |
| | drugs = "Y" | | |
| Post-Neonatal Admission Diagnoses | × | | |
| Jaundice | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with P58, P59, or R17 |
| Low Birth Weight or Preterm Birth | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with P07 |
| Congenital Anomalies | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with G901, P293, or Q |
| Feeding Problems | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with K21, P741, P7881, P92, R633, or R634 |
| Respiratory Infections | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with A37, J00-J06, J12-J18, J20-J22, or P23 |
| Respiratory Distress | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with P22 |
| Other Infections | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with A (except A37), B, H60-H66, K61, L0, M86, P027, P35-P38, P39 (except P393), P77, R572, T802, T814, T827, or T835 |
| Apnea | Post-Neonatal Admission | AND | diagnosis_type = "M" and diagnosis_cd begins with G4730, P283, P284, or R068 |
| Urinary Tract Infections | Post-Neonatal Admission | AND | <pre>diagnosis_type = "M" and diagnosis_cd begins with N390 or P393</pre> |
| Isoimmunization | | | diagnosis_type = "M" and diagnosis_cd begins with P55 |
| "Normal Labour" | labour_spont_flg = "Y" and | | |
| | prev_cesarian_deliv = 0 and | | |
| | multiple_birth_count = 1 and | | |
| | baby_presentation_delivery = 6 and | | |
| | gestational age is between 37 and 41 | | |

| | PDR variables | | CIHI Codes |
|--------------------------------|--|-----|--|
| "Normal Childbirth" | general_flg ≠ "Y" and spinal_flg ≠ "Y" and episiotomy_flg ≠ "Y" | AND | procedure_code does not begin with 5MD53, 5MD54, 5MD55, 5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC, 5MD56PF, 5MD56PJ, or 5MD60 AND anesthetic_type ≠ 1, 2, or 4 for a procedure_code beginning with 5MD |
| Cervical Dilation on Admission | | | |
| 0-3cm | 0 ≤ cervical_dilation_on_admis < 4 | | |
| 4-10cm | cervical_dilation_on_admis ≥ 4 | | |
| Unknown | cervical_dilation_on_admis = null | | |
| Duration of Labour Stages | | | |
| Duration of First Stage | <pre>hours between (second_stage_date second_stage_time – first_stage_date first_stage_time) where first_stage_date and second_stage_date ≠ null and labour_none_flg ≠ "Y"</pre> | | |
| Duration of Second Stage | hours between (delivery_date delivery_time – second_stage_date second_stage_time) where second_stage_date ≠ null and labour none flg ≠ "Y" | | |
| Low Apgar Score | 0 ≤ apgar_5_minutes <7 | | |

Gestational Age Algorithm

Gestational age at delivery is calculated using an algorithm consistent with that recommended by the Society of Obstetricians and Gynaecologists of Canada. The algorithm takes into account the last menstrual period (LMP), early ultrasound (EUS) before 20 weeks, newborn clinical exam, and chart documented estimate of gestational age. Accurate documentation of each of these on patient charts, including the estimated weeks and days gestation at early ultrasound, permits the most accurate calculation by PSBC.

Gestational age in completed weeks§ based on LMP and EUS is calculated as follows:

- 1. If LMP* is recorded and there is no EUS, use GA from LMP.
- 2. If LMP is recorded, there is no EUS[^], but clinical exam of baby gives a GA at least 3 weeks different than LMP, use GA from newborn clinical exam.
- 3. If LMP is recorded and equal to GA in weeks from EUS at <14 weeks, use GA from LMP. If estimates are not equal, use GA from EUS.
- 4. If LMP is recorded and within 1 week of GA from EUS at 14-20 weeks, use GA from LMP. If difference is more than 1 week, use GA from EUS.
- 5. If LMP is not recorded but GA from EUS <20 weeks is recorded, use GA from EUS.
- 6. If LMP and EUS are not recorded, use GA from newborn clinical exam.
- 7. If LMP, EUS, and newborn clinical exam are not recorded, use GA from chart documentation.
- 8. If all are missing or out of range, GA is missing.
- [§] Completed weeks of gestation is a term used in the estimated age of the fetus calculated from the first day of the LMP or US. A completed week increments at 7-day intervals. For instance 37 completed weeks includes the time span from 37 weeks and 0 days to 37 weeks and 6 days.
- * only LMP estimates of 15-45 weeks are considered. All others are treated as missing.
- ^ only GA estimates of 17-43 weeks from EUS are considered. All others are treated as missing.