



Perinatal Health Report
Provincial Health Services
Authority
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 excluded (<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 99 and 100)

Delivery Admission¹

- 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 with 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 with 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.

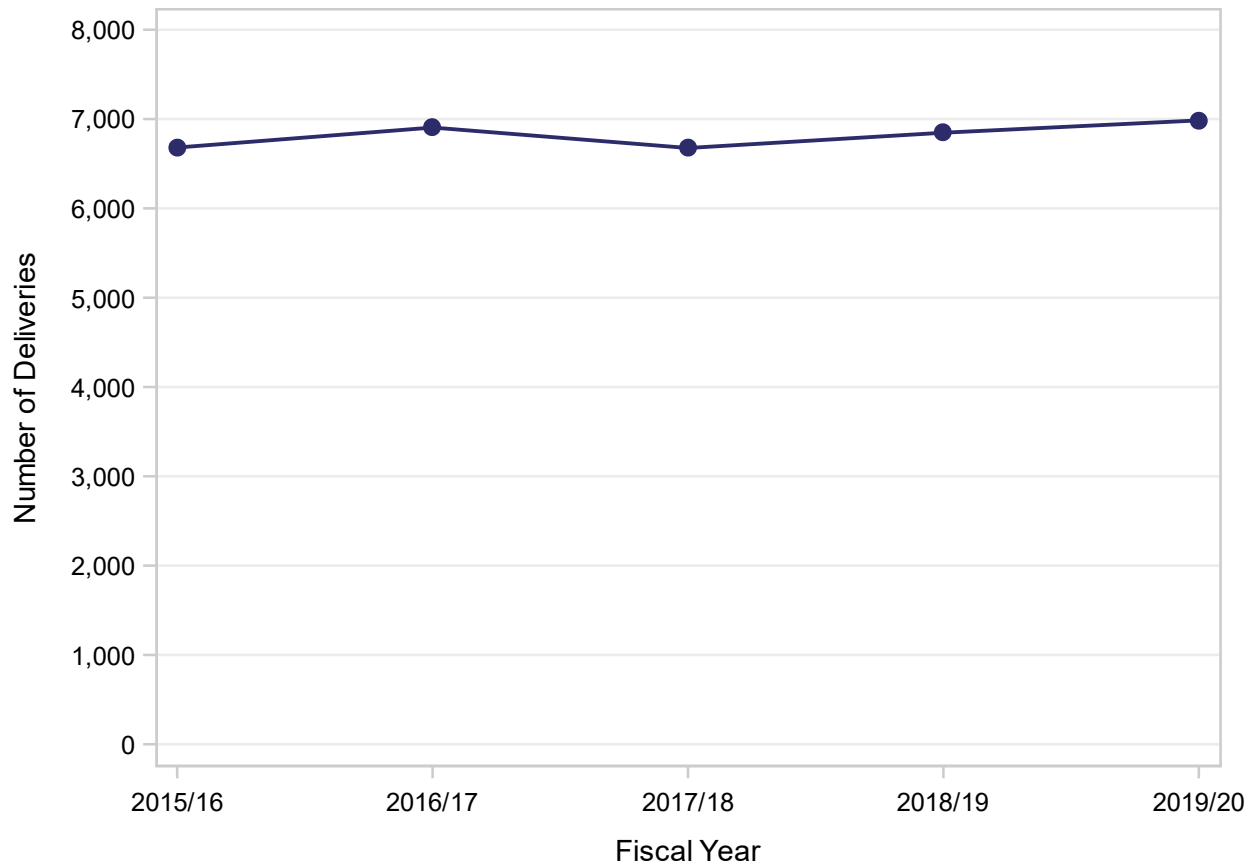
¹NOTE: Until March 31, 2014, if a woman who delivered at home with a registered midwife was admitted to acute care within 24 hours of delivery, the acute care admission was her Delivery Admission and the transfer was not recorded. Effective April 1, 2014, all deliveries at home with a registered midwife 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
Provincial Health Services Authority

Section 1: Maternal Health

Total Deliveries

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

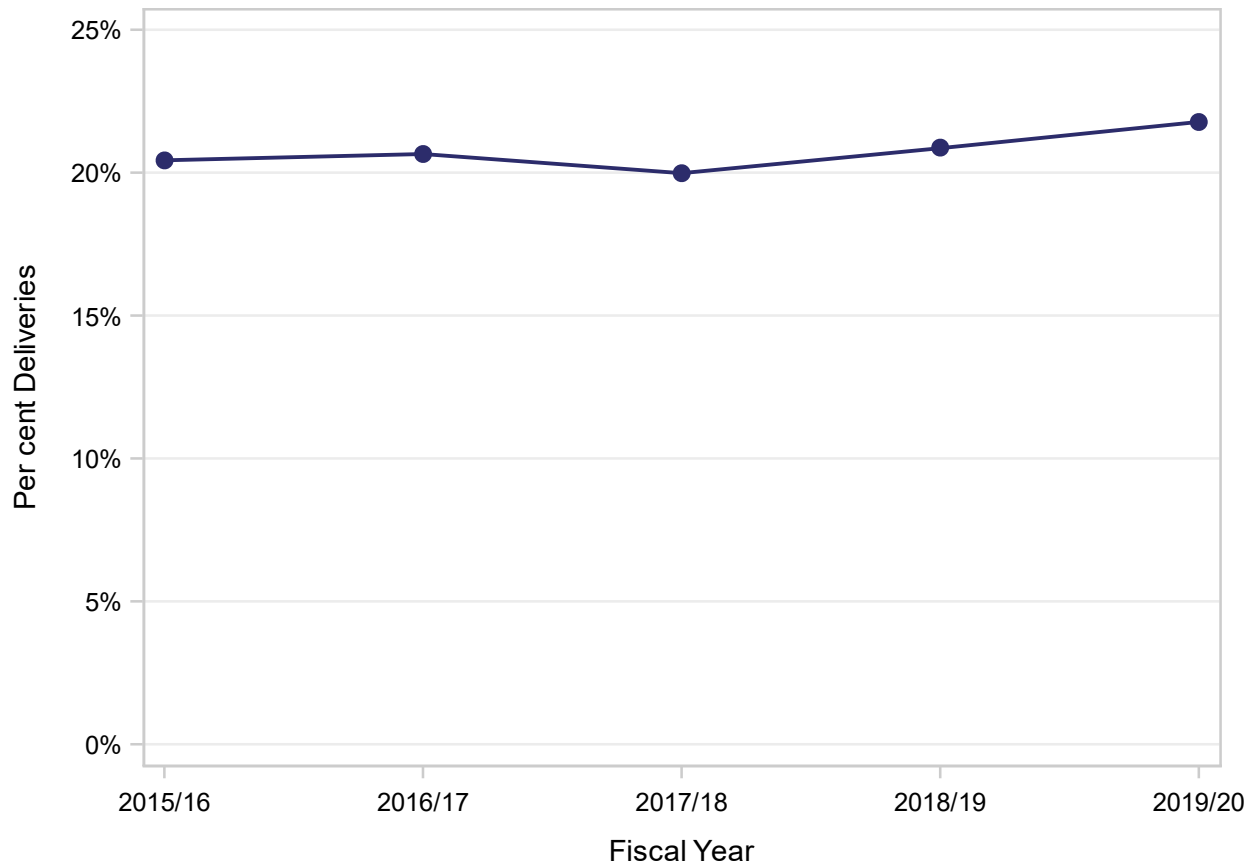


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Provincial Health Services Authority	6,681	6,905	6,676	6,847	6,985

Definitions and specifications begin on Page 81 of this document.

Deliveries to Residents of Other Health Authorities

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

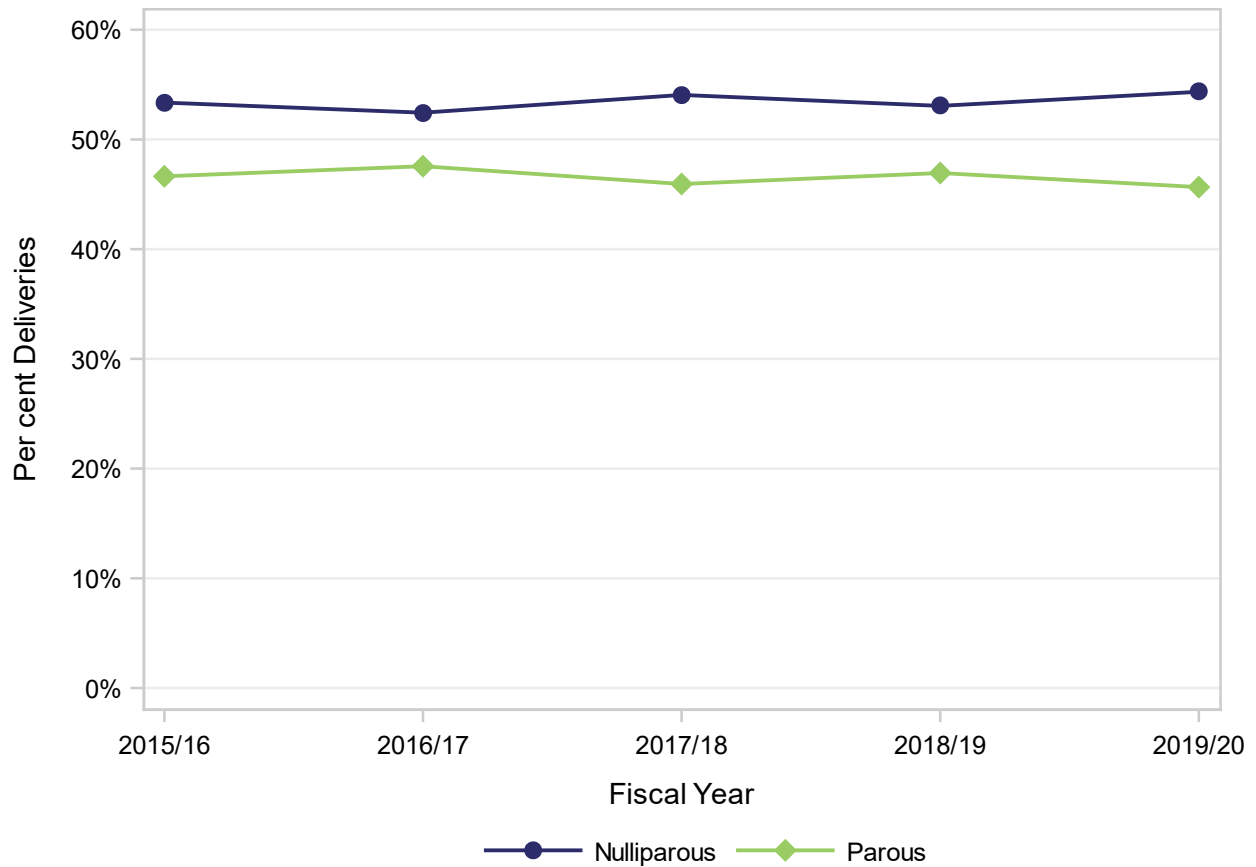


Health Authority	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Provincial Health Services Authority	20.4%	20.7%	20.0%	20.9%	21.8%

Definitions and specifications begin on Page 81 of this document.

Deliveries by Parity

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



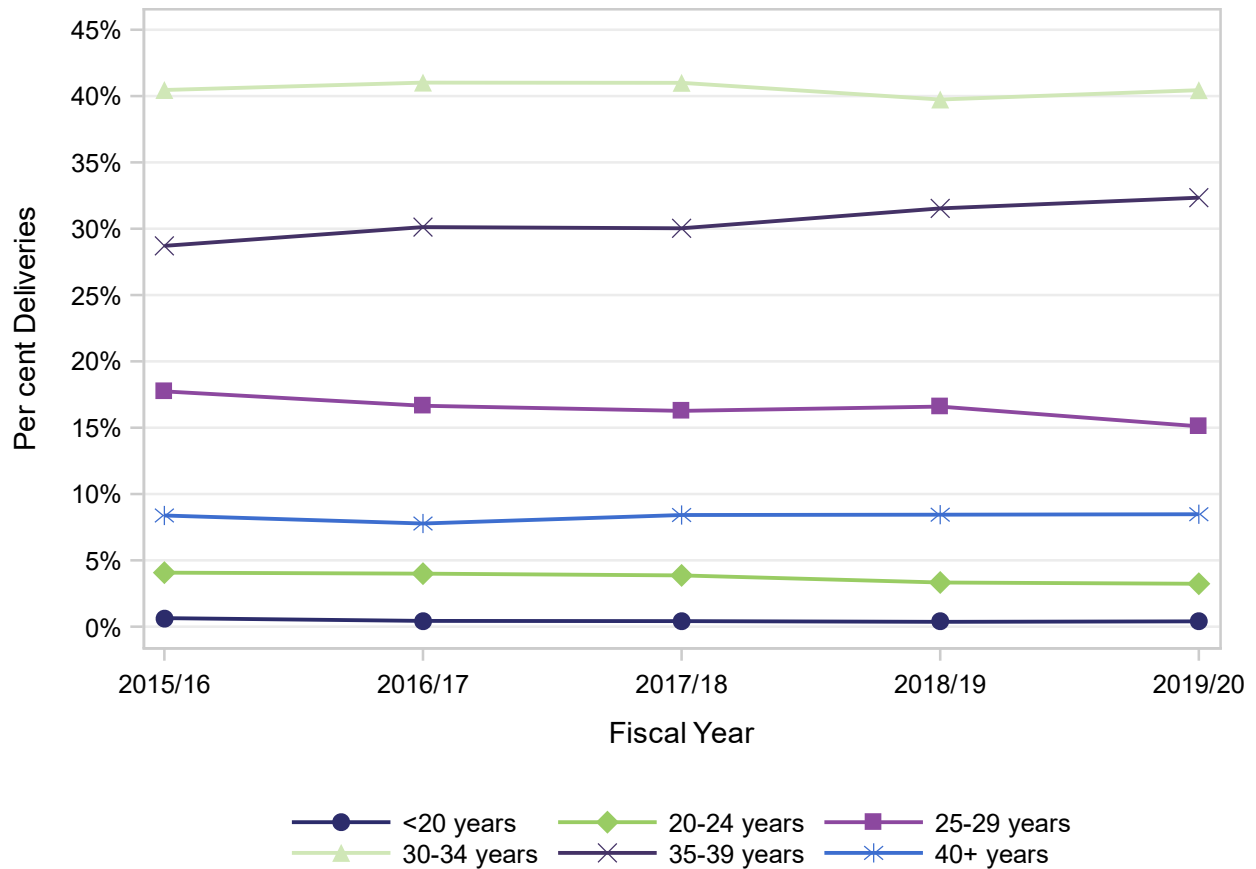
Average and Median Maternal Age at Delivery by Parity

Parity	Fiscal Year									
	2015/16		2016/17		2017/18		2018/19		2019/20	
	Average	Median	Average	Median	Average	Median	Average	Median	Average	Median
All	33.3	33.5	33.5	33.7	33.6	33.6	33.7	33.8	33.8	33.9
Nulliparous	32.4	32.5	32.6	32.7	32.6	32.7	32.8	32.8	32.8	32.8
Parous	34.4	34.6	34.5	34.6	34.7	34.8	34.8	35.0	35.0	35.2

Definitions and specifications begin on Page 81 of this document.

Maternal Age at Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

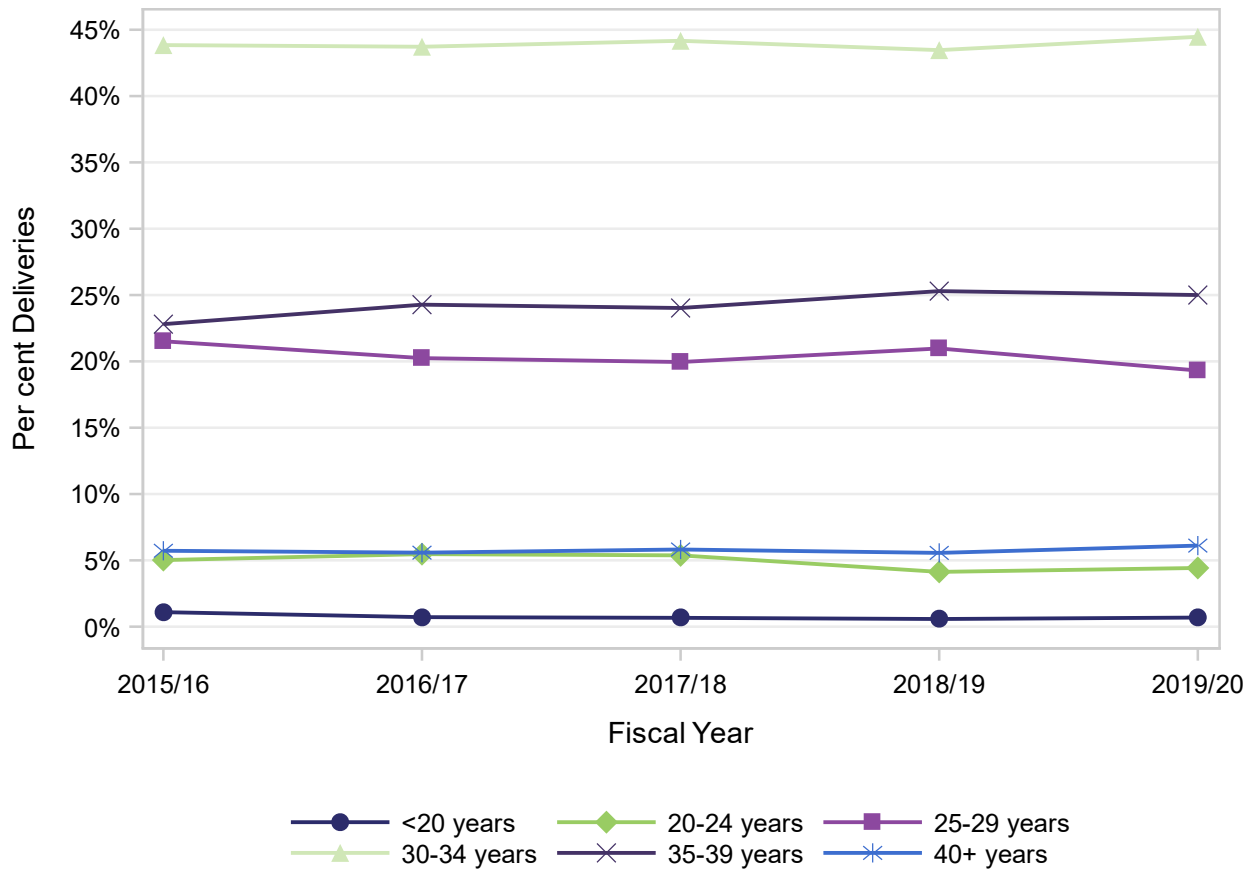


Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	0.6%	0.4%	0.4%	0.4%	0.4%
20-24 years	4.1%	4.0%	3.9%	3.3%	3.2%
25-29 years	17.7%	16.7%	16.3%	16.6%	15.1%
30-34 years	40.5%	41.0%	41.0%	39.7%	40.4%
35-39 years	28.7%	30.1%	30.0%	31.5%	32.3%
40+ years	8.4%	7.8%	8.4%	8.4%	8.5%

Definitions and specifications begin on Page 81 of this document.

Maternal Age at Delivery Nulliparous Women

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

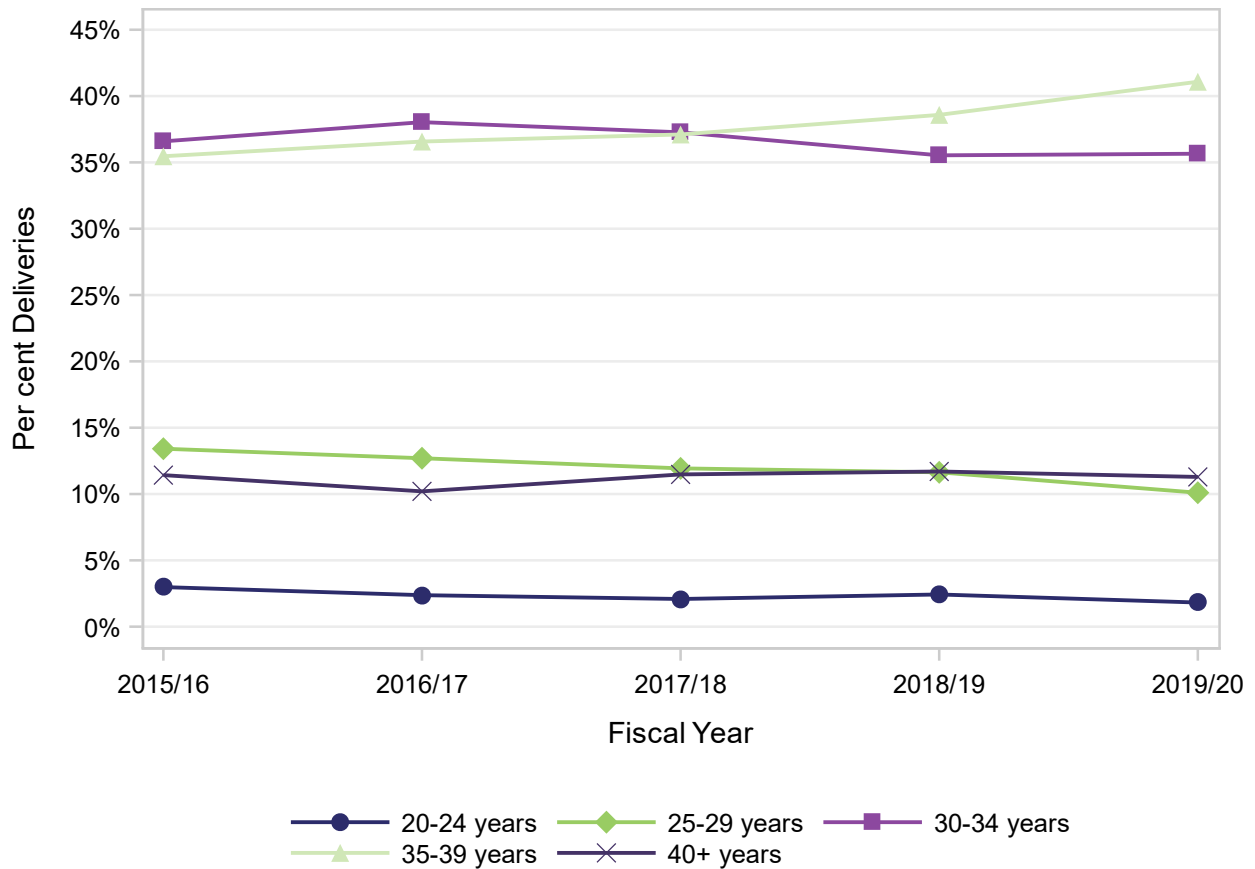


Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	1.1%	0.7%	0.7%	0.6%	0.7%
20-24 years	5.0%	5.5%	5.4%	4.1%	4.4%
25-29 years	21.5%	20.2%	20.0%	21.0%	19.3%
30-34 years	43.8%	43.7%	44.2%	43.5%	44.5%
35-39 years	22.8%	24.3%	24.0%	25.3%	25.0%
40+ years	5.7%	5.6%	5.8%	5.6%	6.1%

Definitions and specifications begin on Page 81 of this document.

Maternal Age at Delivery Parous Women

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



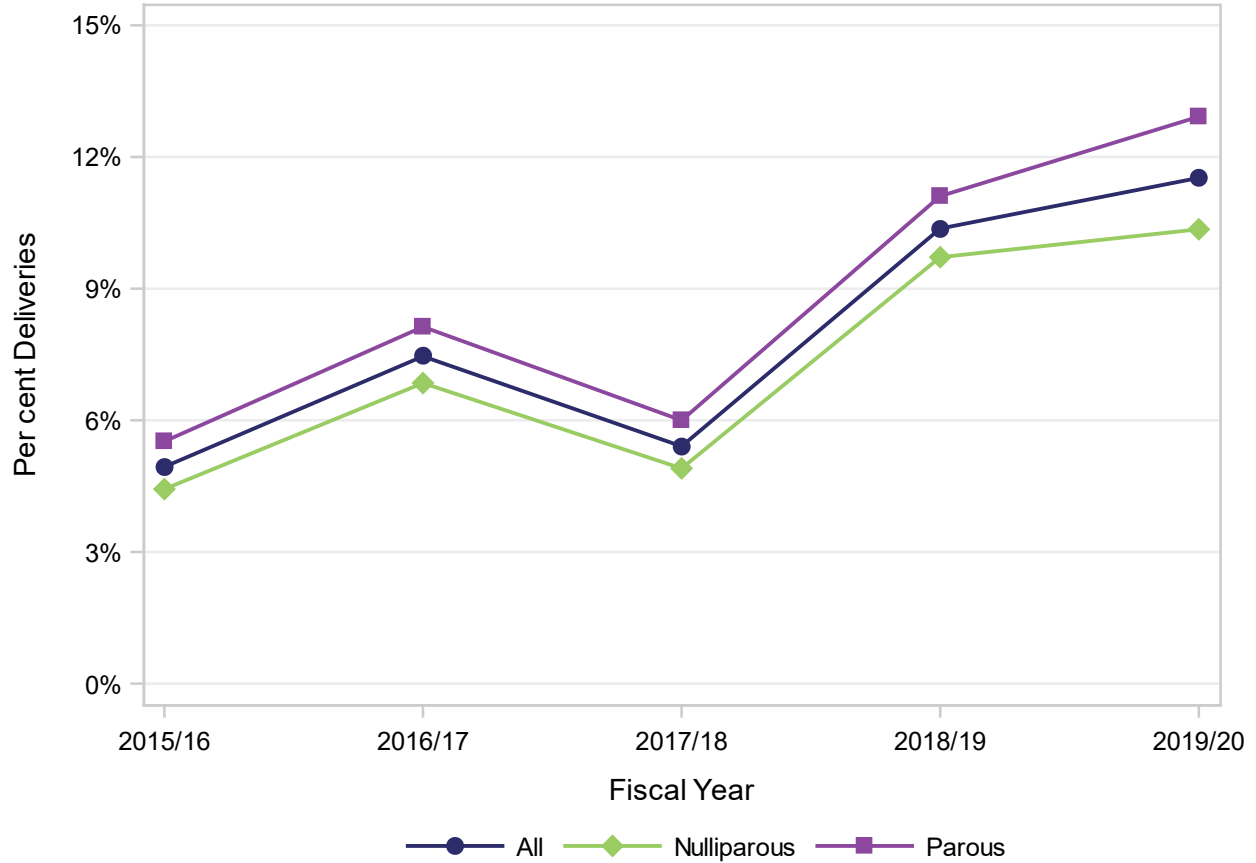
Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	NR	NR	NR	NR	NR
20-24 years	3.0%	2.4%	2.1%	2.4%	1.8%
25-29 years	13.4%	12.7%	11.9%	11.6%	10.1%
30-34 years	36.6%	38.0%	37.3%	35.5%	35.7%
35-39 years	35.5%	36.6%	37.1%	38.6%	41.1%
40+ years	11.4%	10.2%	11.5%	11.7%	11.3%

NR: Rates and per cents based on numerators of 1 to 4 are not reported.
Definitions and specifications begin on Page 81 of this document.

Antenatal Care Visits

Deliveries in Provincial Health Services Authority: 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

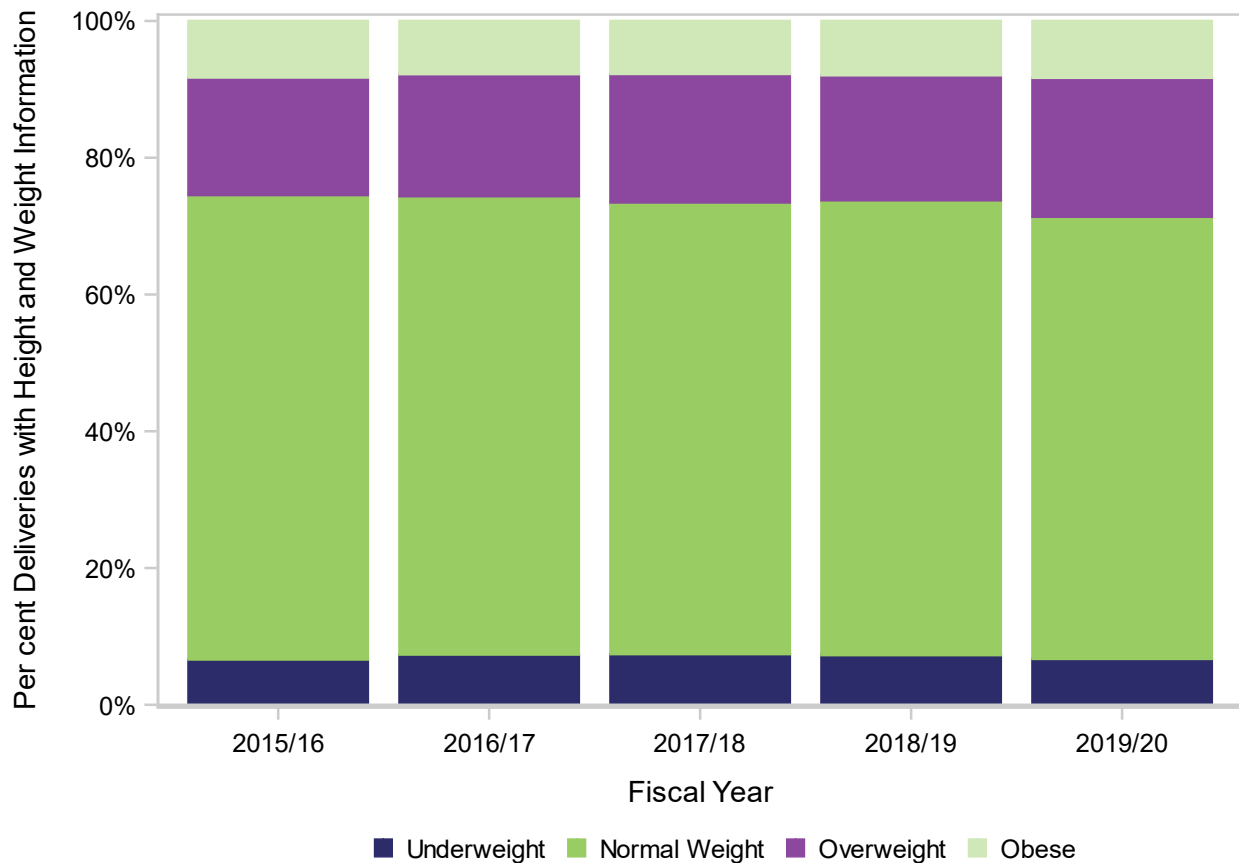
	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<5 Visits	4.9%	7.5%	5.4%	10.4%	11.5%
Missing Visits	25.6%	12.1%	33.1%	6.5%	4.1%

Definitions and specifications begin on Page 81 of this document.

Pre-Pregnancy Body Mass Index (BMI)

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

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



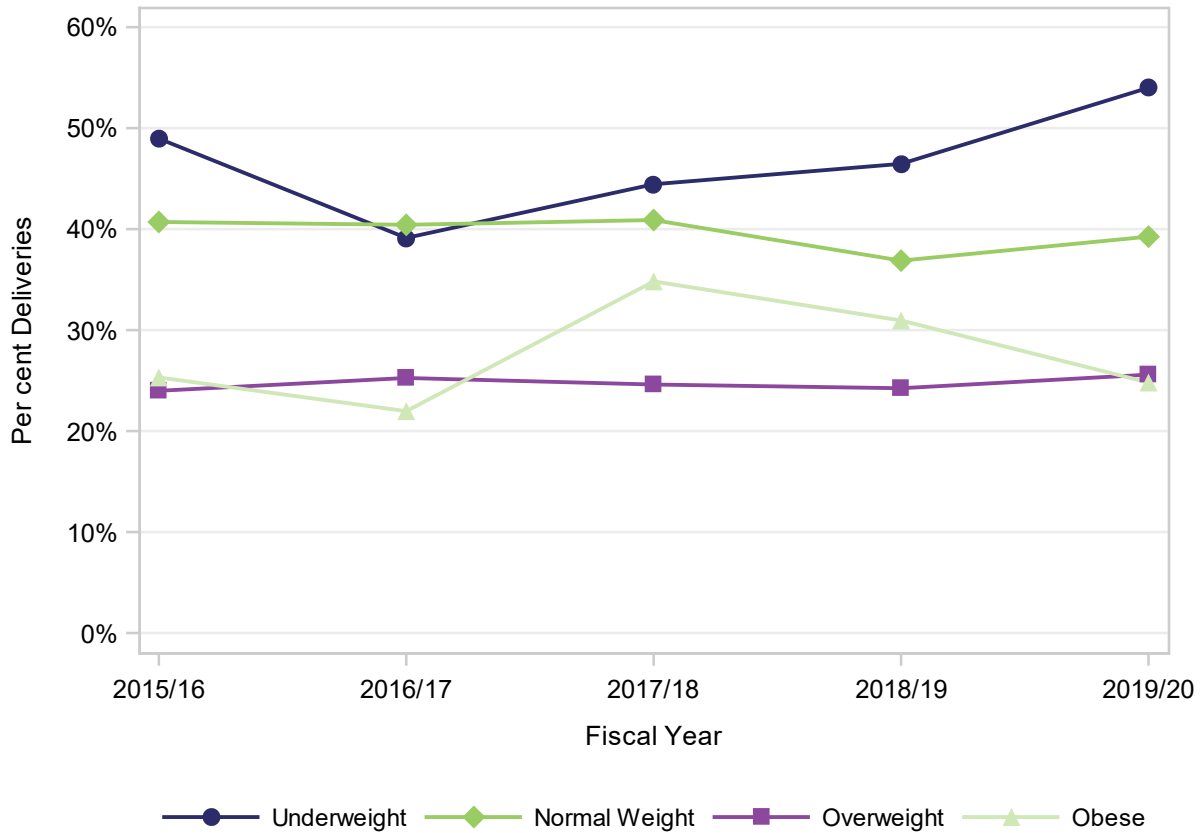
Distribution of Pre-Pregnancy BMI Among ALL Deliveries

BMI Category	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Underweight	4.5%	5.0%	5.0%	4.9%	4.7%
Normal Weight	46.5%	45.3%	44.7%	44.5%	45.2%
Overweight	11.8%	12.1%	12.7%	12.2%	14.2%
Obese	5.7%	5.3%	5.2%	5.3%	5.8%
BMI Missing	31.6%	32.4%	32.3%	33.1%	30.1%

Definitions and specifications begin on Page 81 of this document.

Appropriate* Weight Gain During Pregnancy by Pre-Pregnancy Body Mass Index (BMI)

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



BMI Category	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Underweight	49.0%	39.1%	44.4%	46.5%	54.0%
Normal Weight	40.7%	40.4%	40.9%	36.9%	39.3%
Overweight	24.0%	25.3%	24.6%	24.2%	25.6%
Obese	25.3%	22.0%	34.8%	31.0%	24.8%

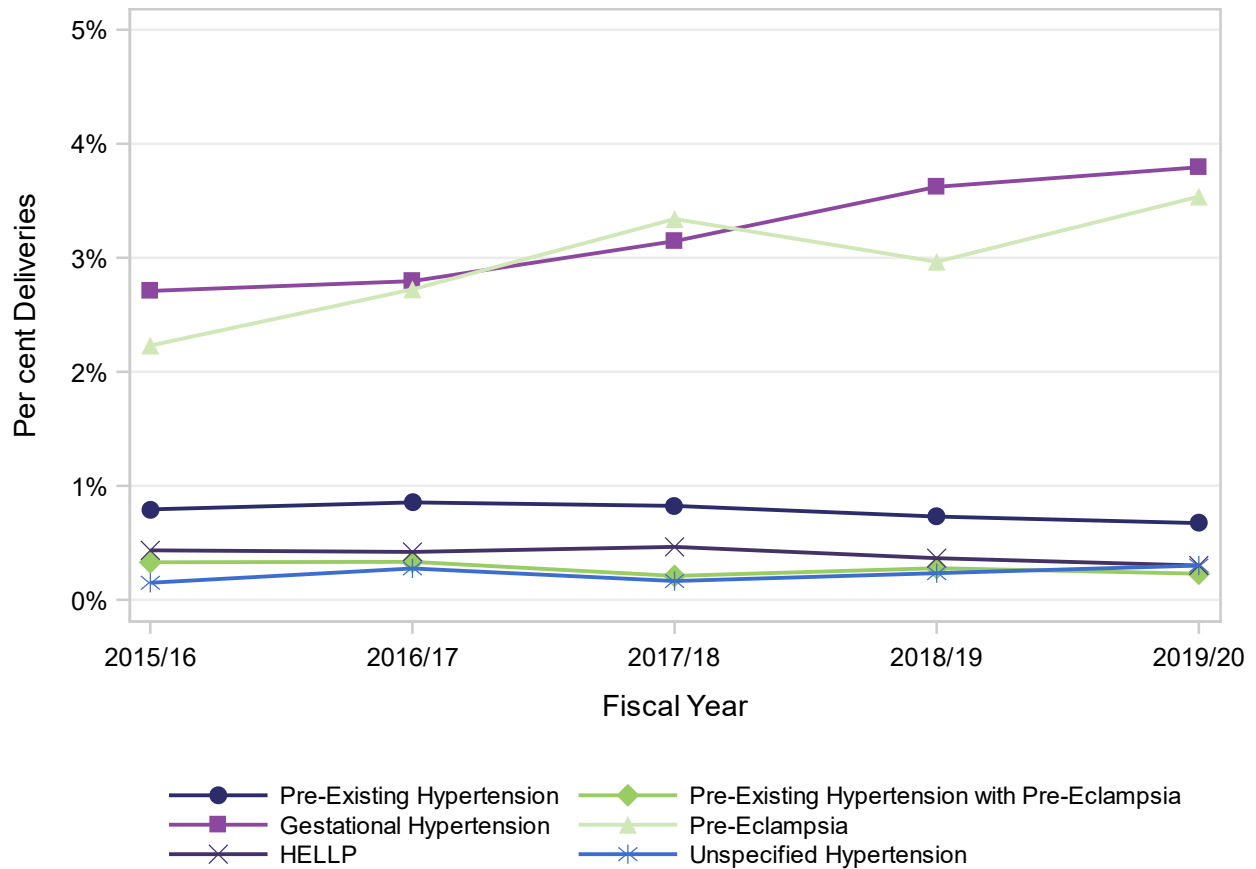
* As defined by the Institute of Medicine.

Data are limited to deliveries with complete height and weight information (19% of deliveries in 2019/20).

Definitions and specifications begin on Page 81 of this document.

Hypertensive Disorders of Pregnancy

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

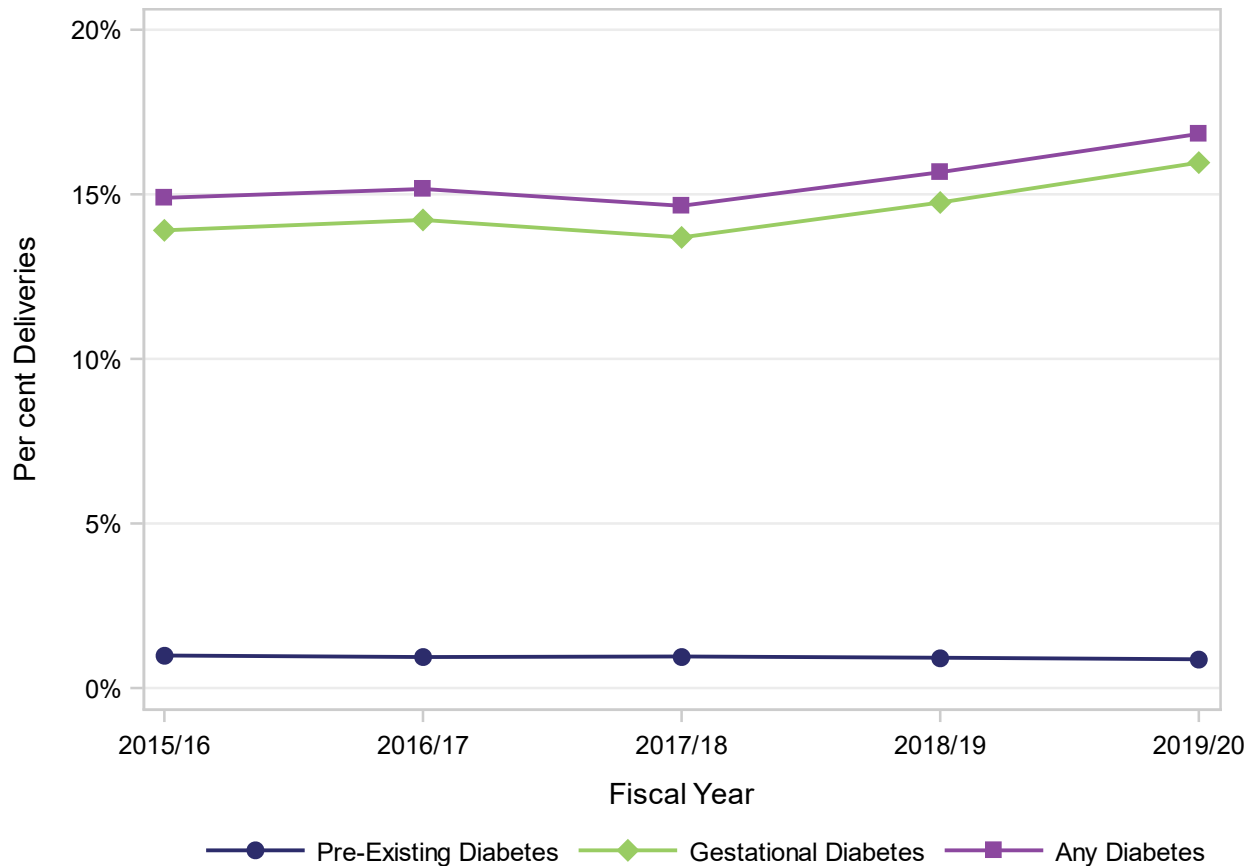


Type of Hypertension	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
No Hypertension	93.3%	92.6%	91.8%	91.8%	91.2%
Pre-Existing Hypertension	0.8%	0.9%	0.8%	0.7%	0.7%
Pre-Existing Hypertension with Pre-Eclampsia	0.3%	0.3%	0.2%	0.3%	0.2%
Gestational Hypertension	2.7%	2.8%	3.1%	3.6%	3.8%
Pre-Eclampsia	2.2%	2.7%	3.3%	3.0%	3.5%
HELLP	0.4%	0.4%	0.5%	0.4%	0.3%
Eclampsia	NR	NR	NR	NR	NR
Unspecified Hypertension	0.1%	0.3%	0.2%	0.2%	0.3%

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 81 of this document.

Diabetes Mellitus in Pregnancy

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

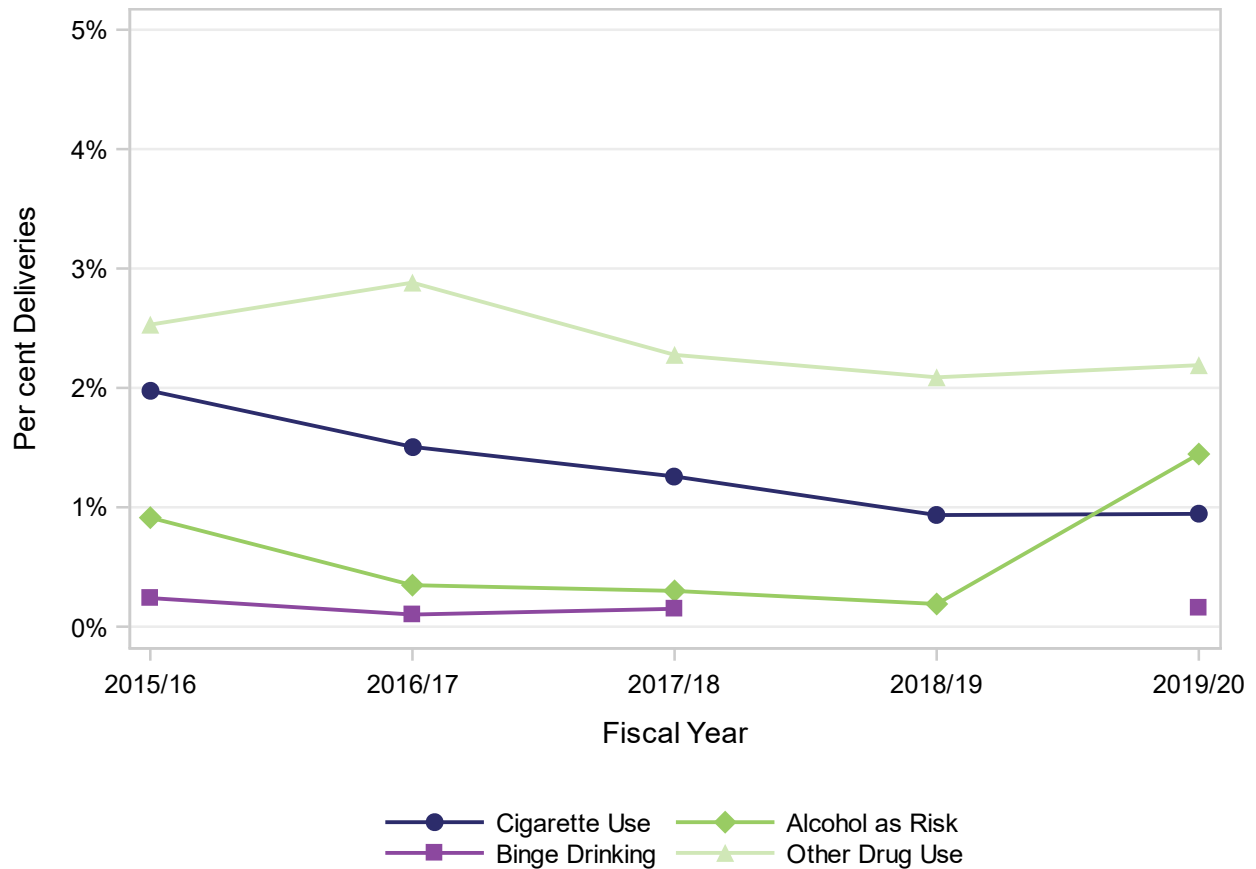


Type of Diabetes	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Pre-Existing Diabetes	1.0%	0.9%	1.0%	0.9%	0.9%
Gestational Diabetes	13.9%	14.2%	13.7%	14.8%	16.0%
Any Diabetes	14.9%	15.2%	14.6%	15.7%	16.8%

Definitions and specifications begin on Page 81 of this document.

Substance Use During Pregnancy

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

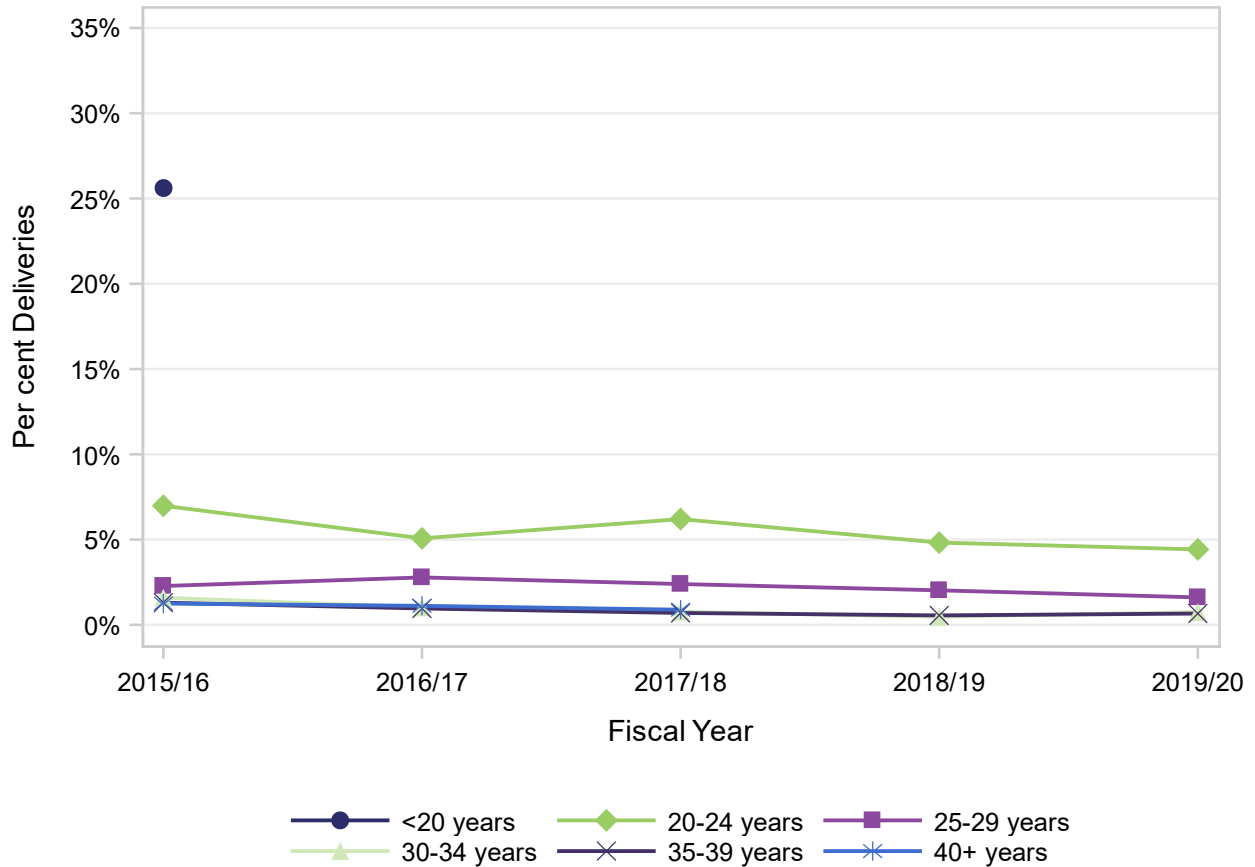


Substance	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Cigarette Use	2.0%	1.5%	1.3%	0.9%	0.9%
Alcohol as Risk	0.9%	0.3%	0.3%	0.2%	1.4%
Binge Drinking	0.2%	0.1%	0.1%	NR	0.2%
Other Drug Use	2.5%	2.9%	2.3%	2.1%	2.2%

NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 81 of this document.

Cigarette Use at Any Time During Pregnancy by Maternal Age

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

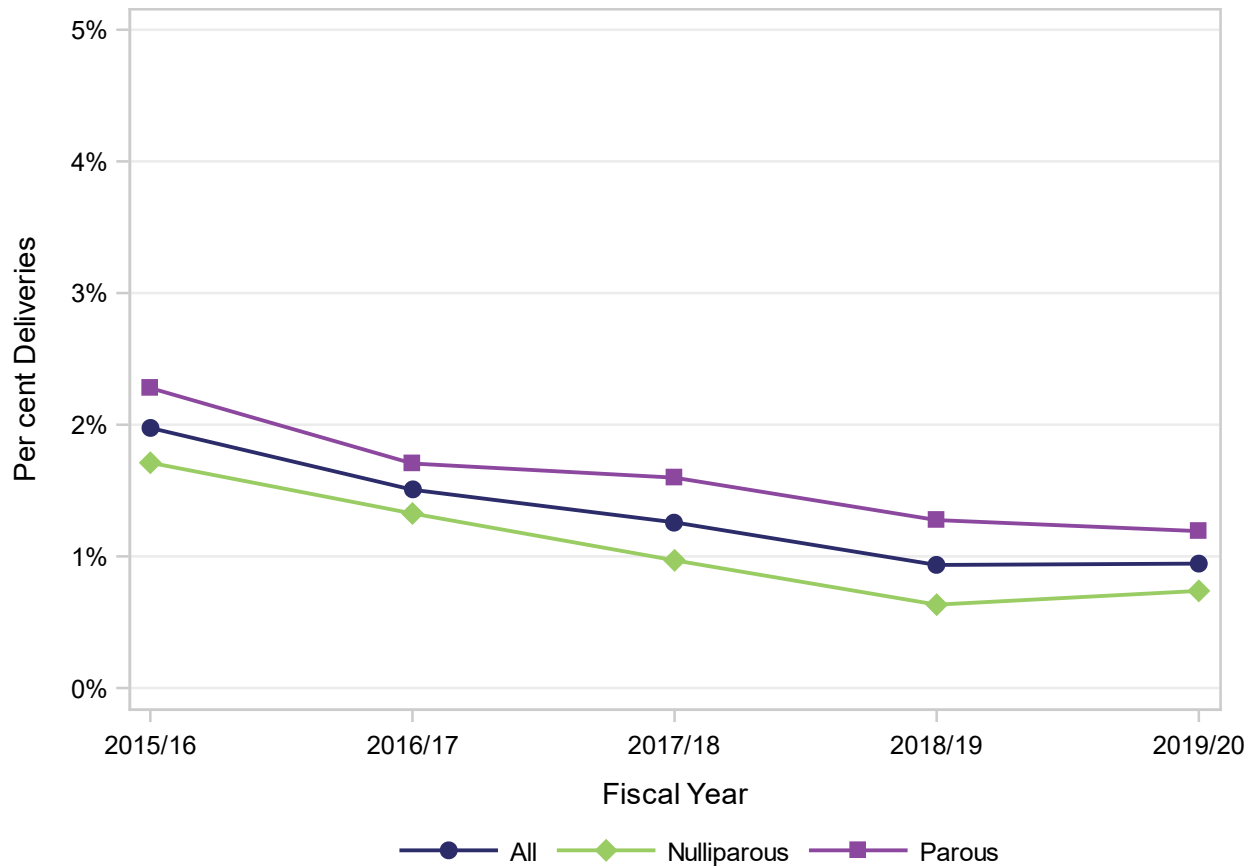


Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	25.6%	NR	NR	NR	NR
20-24 years	7.0%	5.1%	6.2%	4.8%	4.4%
25-29 years	2.3%	2.8%	2.4%	2.0%	1.6%
30-34 years	1.6%	1.0%	0.8%	0.5%	0.7%
35-39 years	1.3%	1.0%	0.7%	0.6%	0.7%
40+ years	1.3%	1.1%	0.9%	NR	NR

NR: Rates and per cents based on numerators of 1 to 4 are not reported.
Definitions and specifications begin on Page 81 of this document.

Cigarette Use at Any Time During Pregnancy by Parity

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

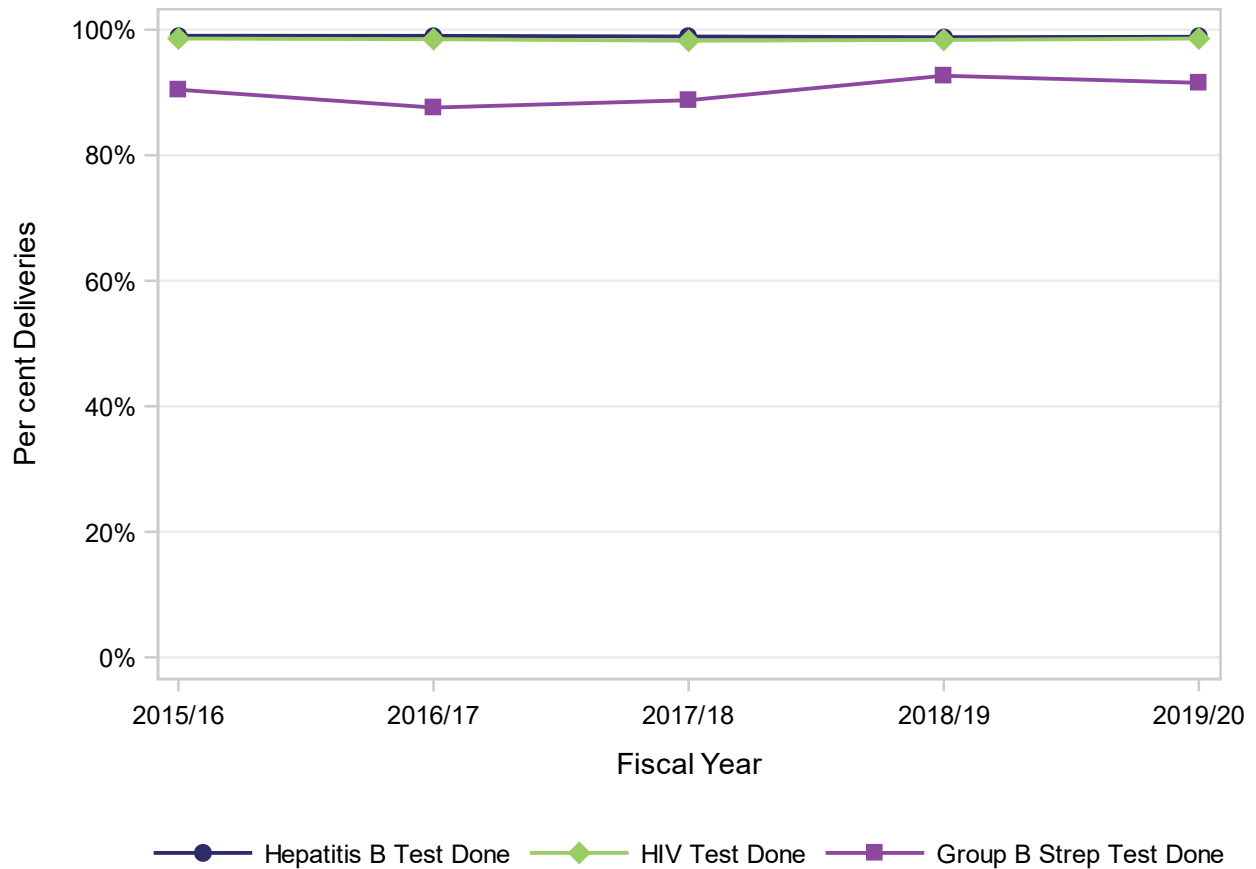


Parity	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
All	2.0%	1.5%	1.3%	0.9%	0.9%
Nulliparous	1.7%	1.3%	1.0%	0.6%	0.7%
Parous	2.3%	1.7%	1.6%	1.3%	1.2%

Definitions and specifications begin on Page 81 of this document.

Maternal Screening Tests

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

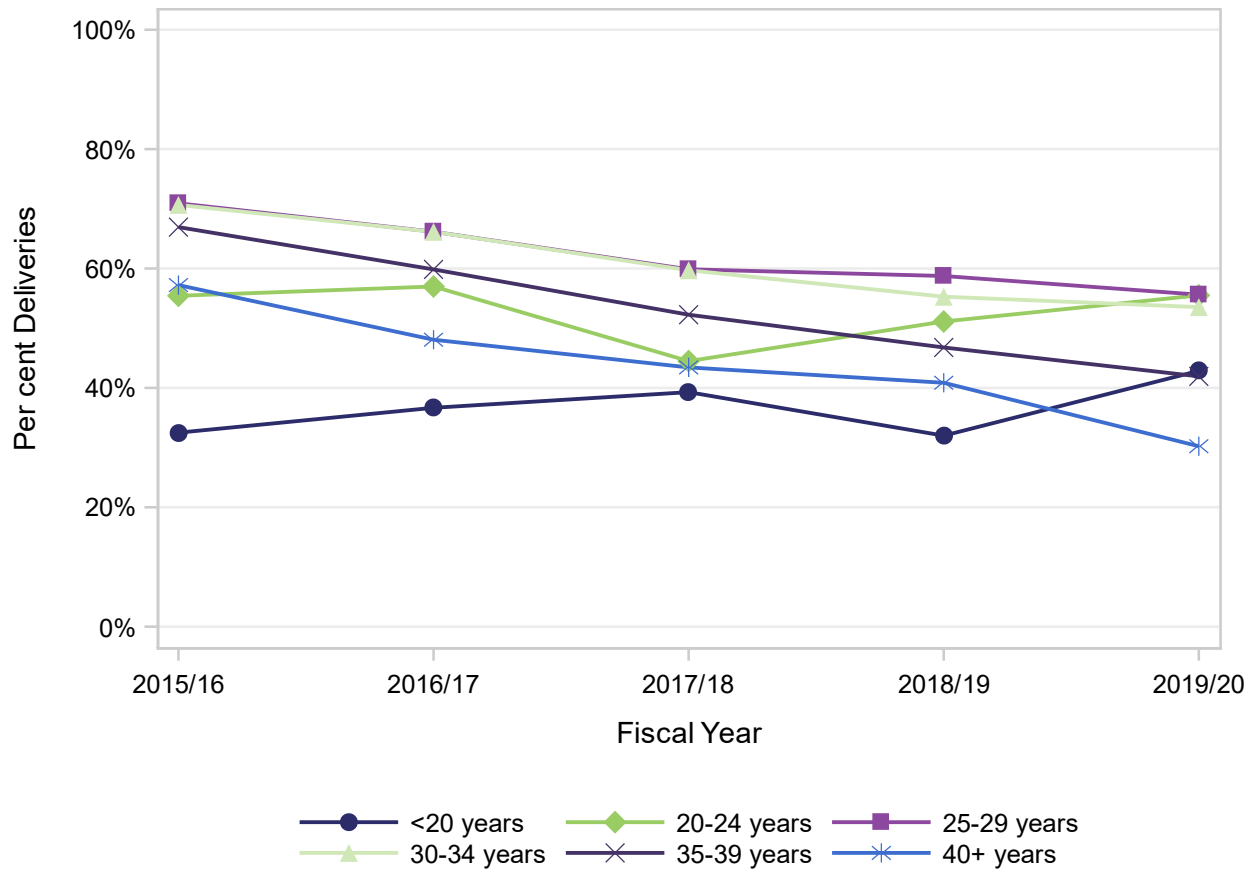


Type of Screening	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Hepatitis B Test Done	99.0%	99.0%	98.9%	98.8%	98.9%
HIV Test Done	98.6%	98.5%	98.2%	98.4%	98.6%
Group B Strep Test Done	90.4%	87.6%	88.8%	92.7%	91.5%

Woman who delivered a baby at 35 weeks gestation or more was screened for Group B Streptococcus. Definitions and specifications begin on Page 81 of this document.

Uptake of Prenatal Genetic Screening by Maternal Age

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

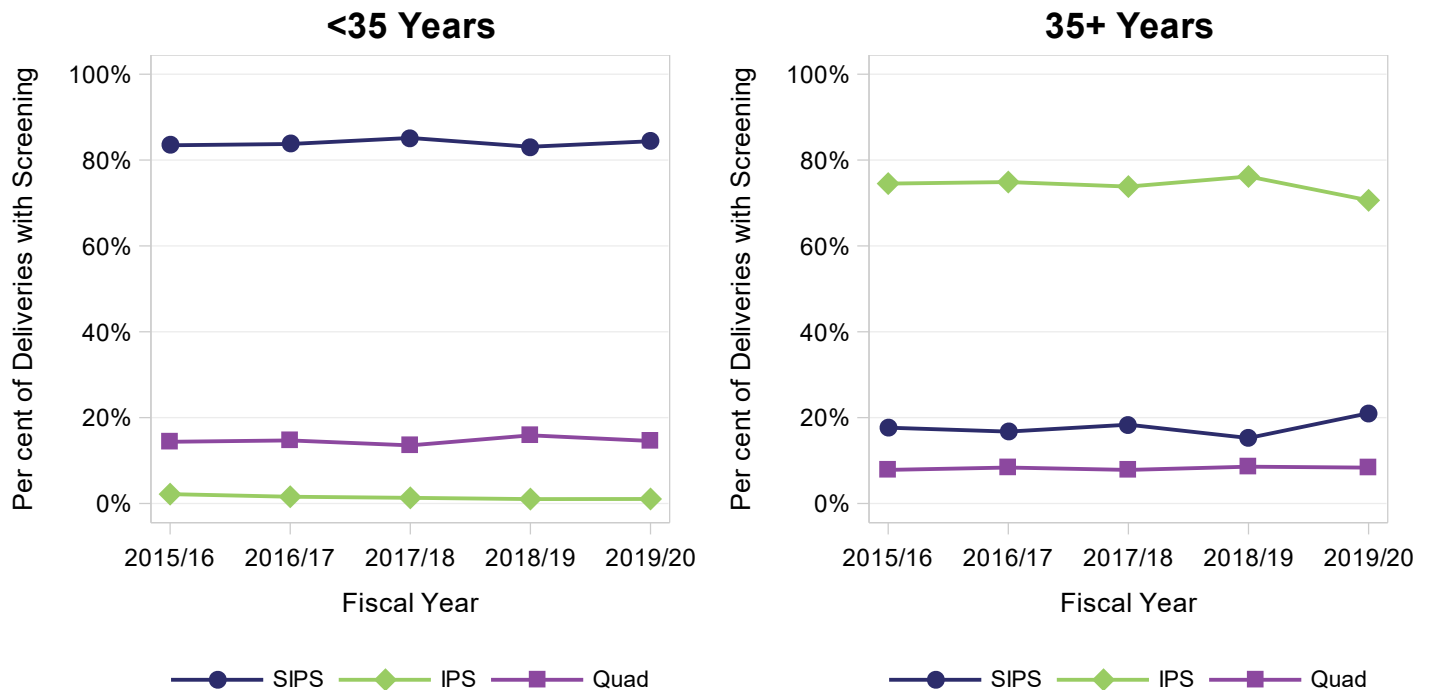


Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	32.5%	36.7%	39.3%	32.0%	42.9%
20-24 years	55.4%	57.0%	44.5%	51.1%	55.5%
25-29 years	70.9%	66.2%	59.9%	58.7%	55.6%
30-34 years	70.7%	66.1%	59.7%	55.3%	53.5%
35-39 years	66.9%	59.9%	52.3%	46.8%	41.9%
40+ years	57.2%	48.1%	43.4%	40.9%	30.2%

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 81 of this document.

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

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Maternal Age	Types of Screening	Fiscal Year				
		2015/16	2016/17	2017/18	2018/19	2019/20
<35 years	SIPS	83.4%	83.7%	85.2%	83.1%	84.4%
	IPS	2.2%	1.6%	1.3%	1.0%	1.1%
	Quad	14.4%	14.7%	13.5%	15.9%	14.6%
35+ years	SIPS	17.7%	16.7%	18.4%	15.3%	21.0%
	IPS	74.5%	74.9%	73.8%	76.2%	70.6%
	Quad	7.8%	8.4%	7.8%	8.6%	8.4%

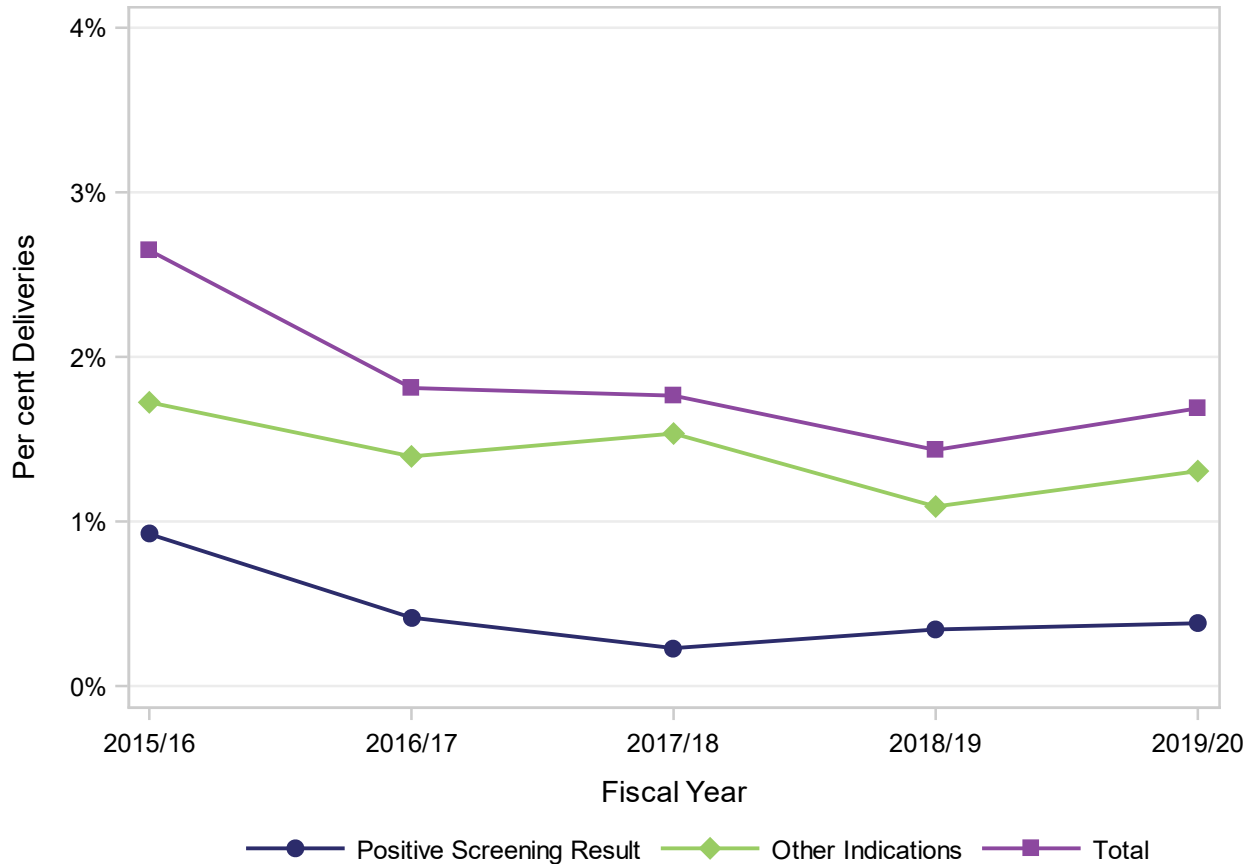
SIPS, IPS, and Quad are publicly-funded Down syndrome screenings performed as part of the BC Prenatal Genetic Screening Program. Data are limited to singleton deliveries with Down syndrome screening performed (51% of all deliveries in 2019/20).

[Click here for information on the BC Prenatal Genetic Screening Program.](#)

Definitions and specifications begin on Page 81 of this document.

Uptake of Invasive Diagnostic Testing by Indication

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Invasive Diagnostic Testing Indication	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Positive Screening Result	0.9%	0.4%	0.2%	0.3%	0.4%
Other Indications	1.7%	1.4%	1.5%	1.1%	1.3%
Total	2.6%	1.8%	1.8%	1.4%	1.7%

Invasive diagnostic testing includes chorionic villus sampling or amniocentesis.

Data are limited to singleton deliveries.

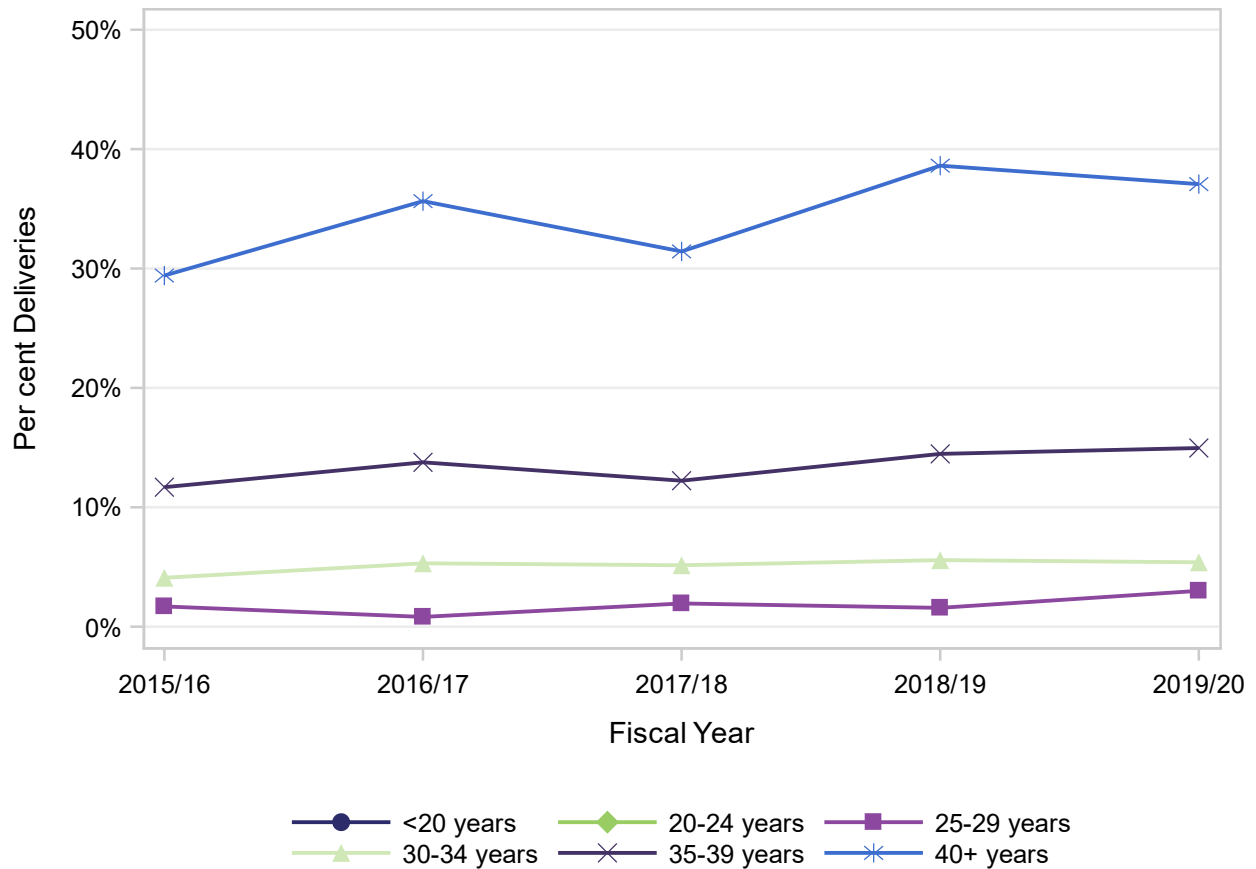
Other indications include all indications for invasive diagnostic testing other than a positive funded screening result.

[Click here for information on the BC Prenatal Genetic Screening Program.](#)

Definitions and specifications begin on Page 81 of this document.

Use of Artificial Reproductive Technology Nulliparous Women by Age

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	NR	NR	NR	NR	NR
20-24 years	NR	NR	NR	NR	NR
25-29 years	1.7%	0.8%	1.9%	1.6%	3.0%
30-34 years	4.1%	5.3%	5.1%	5.6%	5.4%
35-39 years	11.7%	13.8%	12.2%	14.5%	15.0%
40+ years	29.4%	35.6%	31.4%	38.6%	37.1%

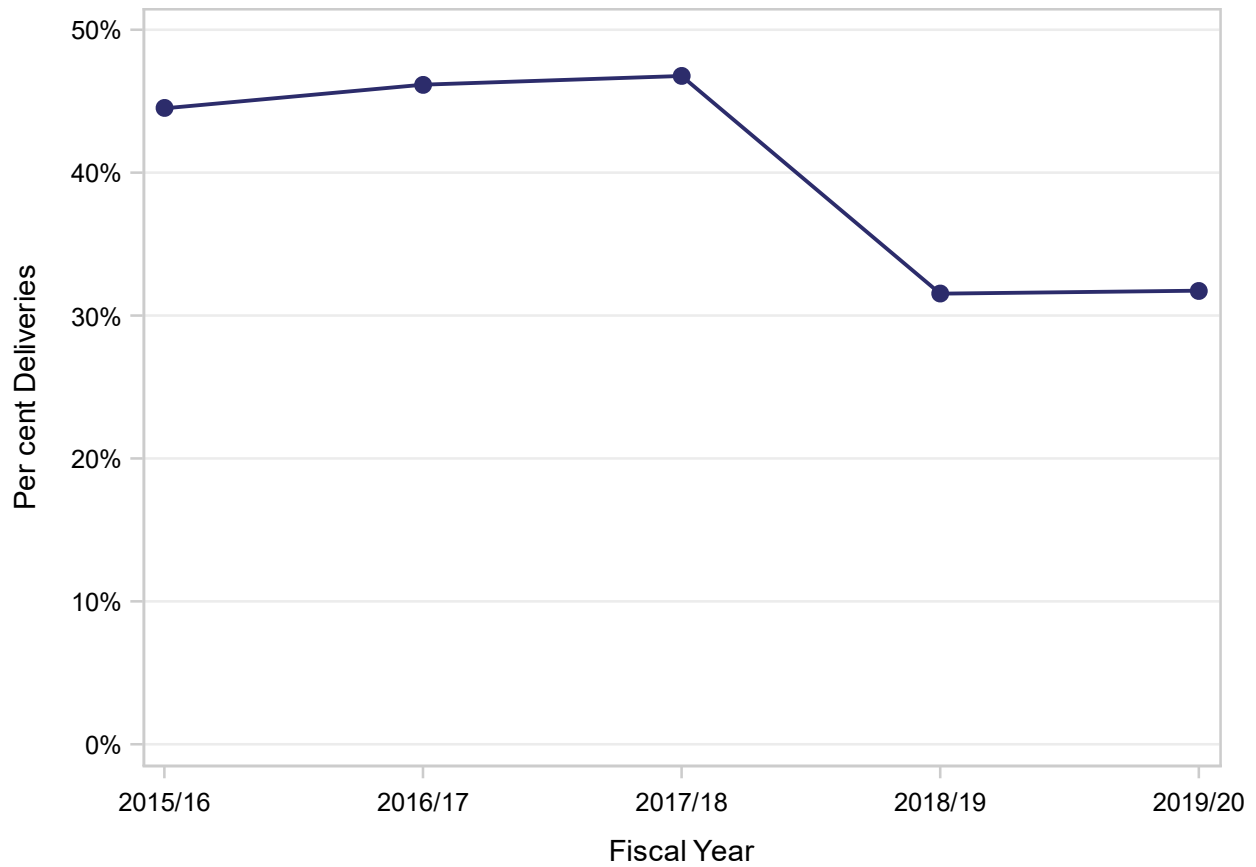
NR: Rates and per cents based on numerators of 1 to 4 are not reported.
Definitions and specifications begin on Page 81 of this document.

Perinatal Health Report 2015/16 to 2019/20
Provincial Health Services Authority

Section 2: Labour and Delivery

Labour Augmentation

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

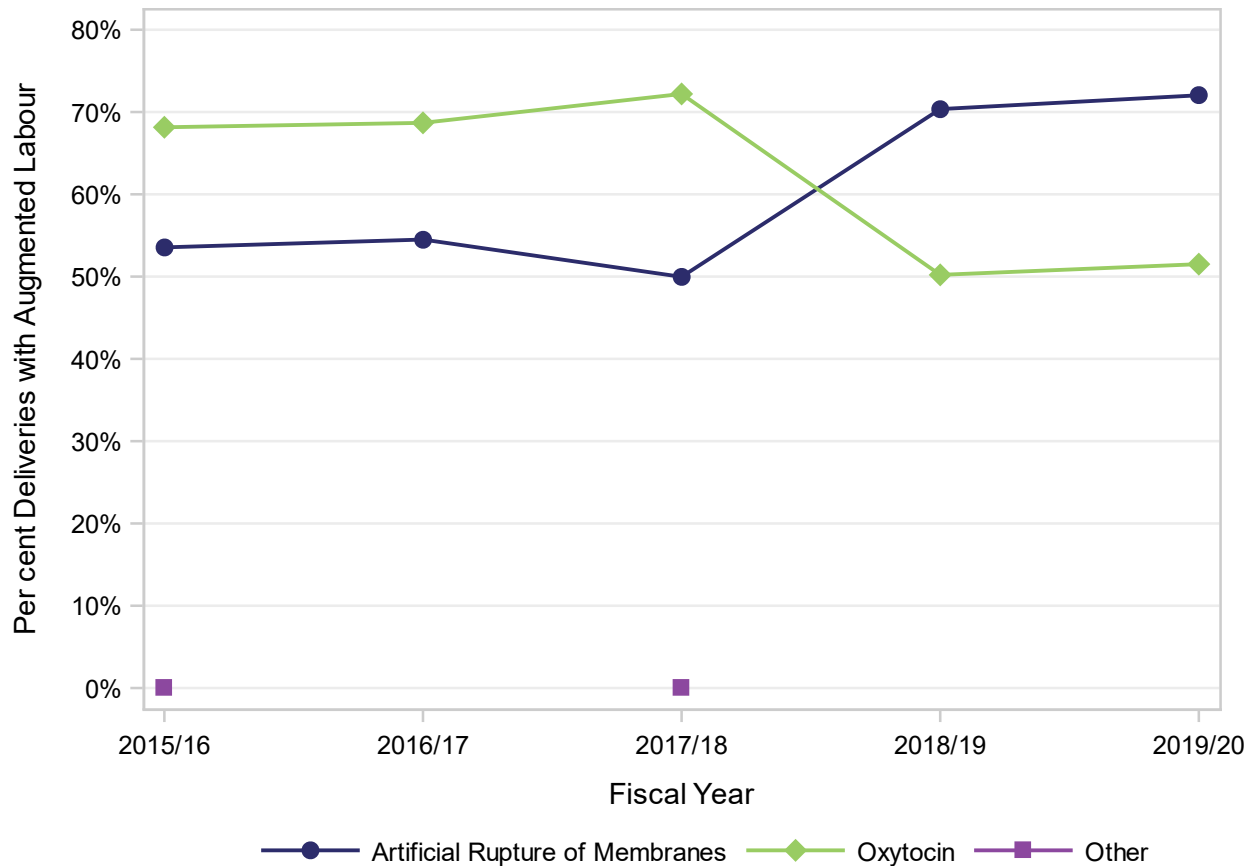


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Labour Augmentation	44.5%	46.2%	46.8%	31.5%	31.7%

Definitions and specifications begin on Page 81 of this document.

Method of Labour Augmentation

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

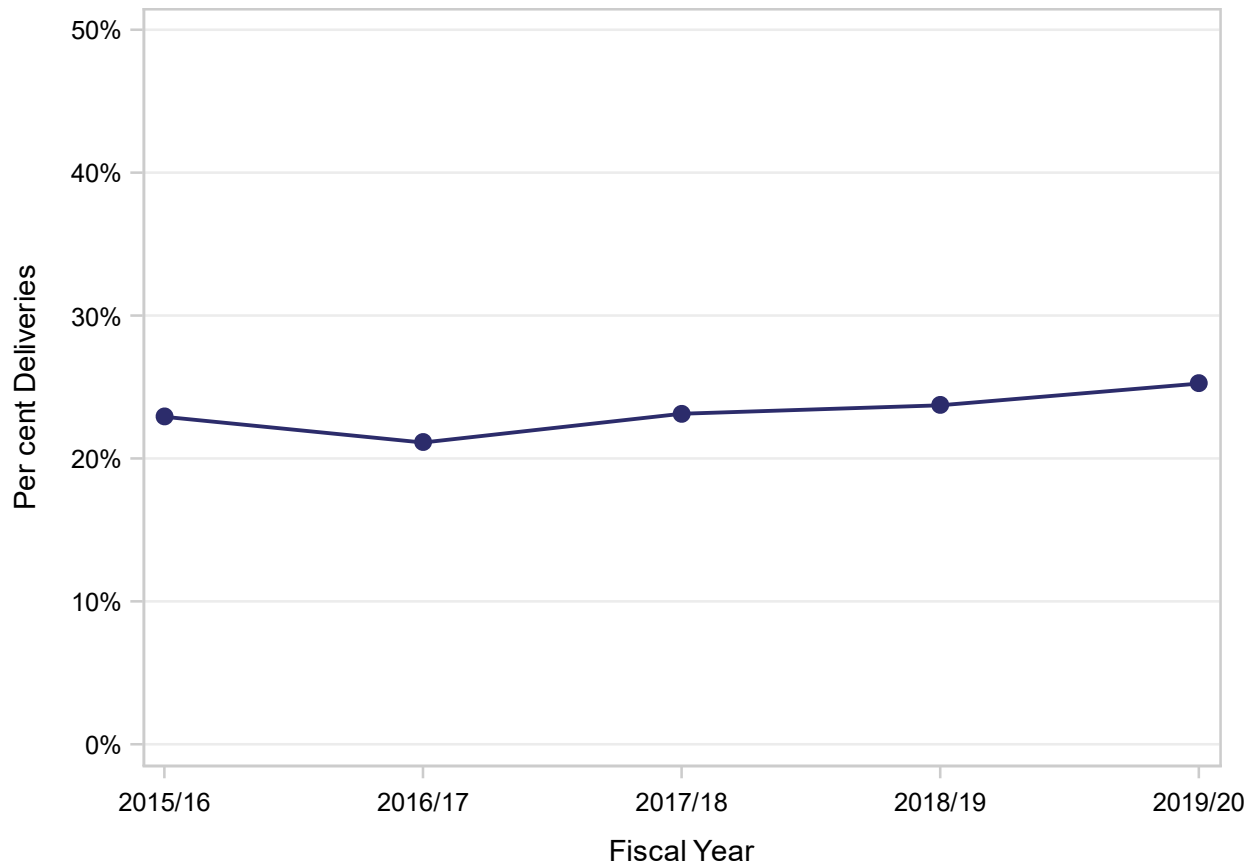


Method of Labour Augmentation	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Artificial Rupture of Membranes	53.5%	54.5%	50.0%	70.4%	72.0%
Oxytocin	68.1%	68.7%	72.2%	50.2%	51.5%
Other	0.0%	NR	0.0%	NR	NR

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 81 of this document.

Labour Induction

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

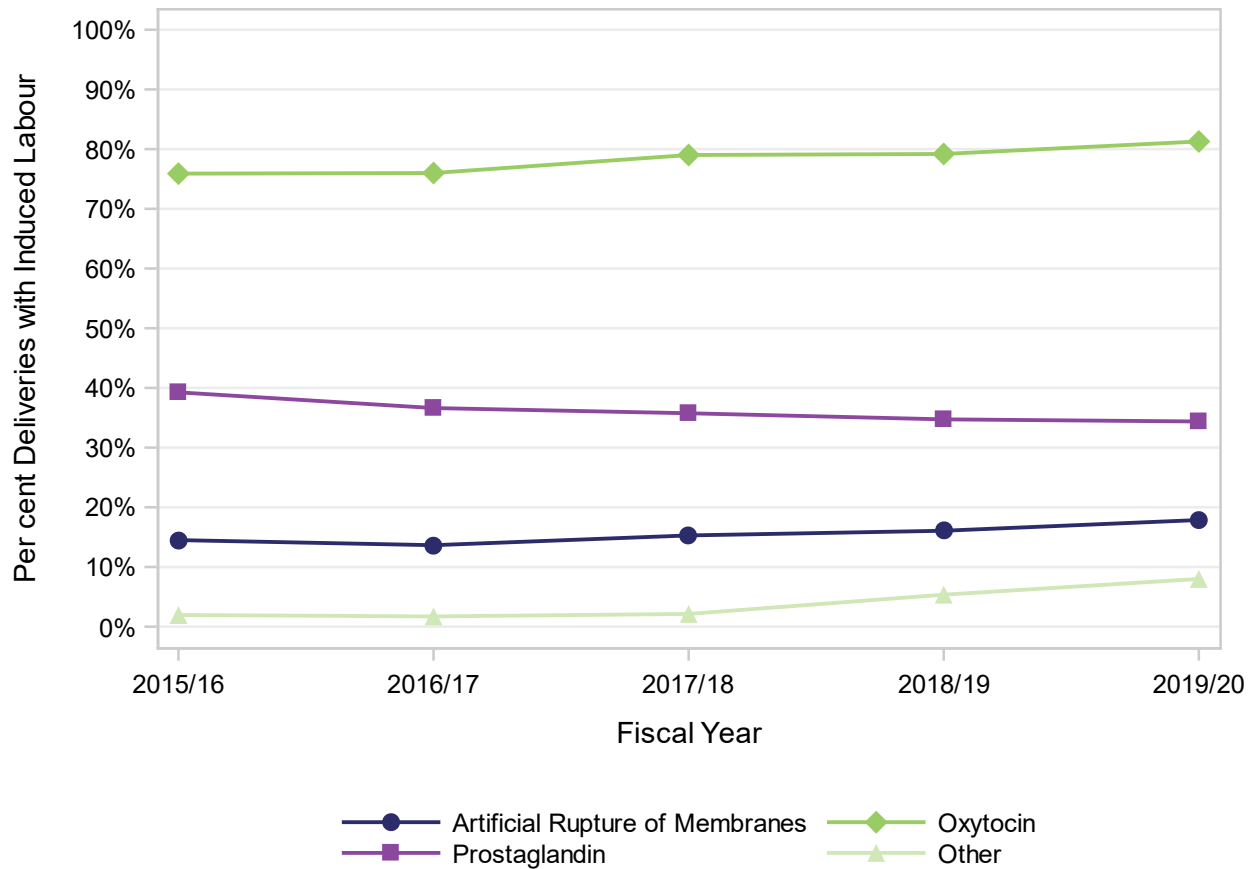


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Labour Induction	22.9%	21.1%	23.1%	23.7%	25.2%

Definitions and specifications begin on Page 81 of this document.

Method of Labour Induction

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

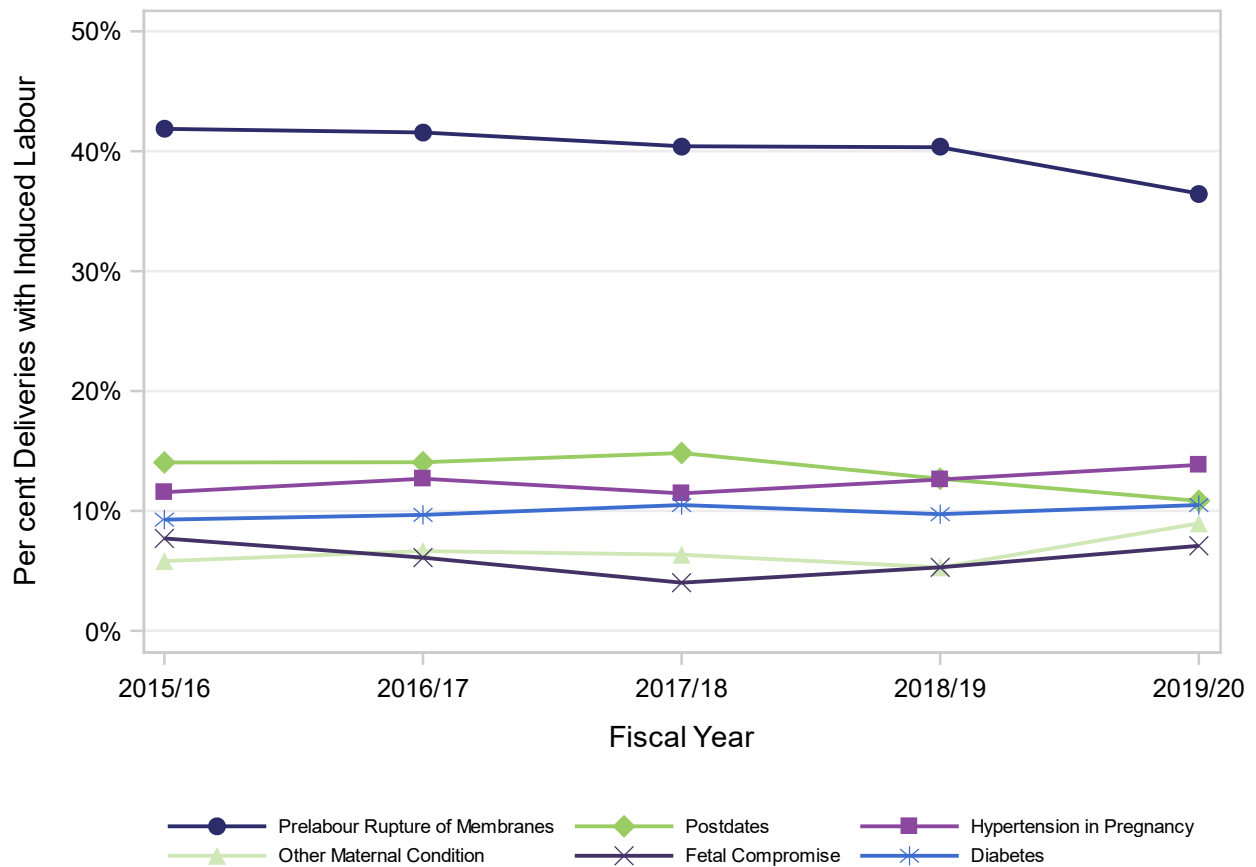


Method of Labour Induction	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Artificial Rupture of Membranes	14.5%	13.6%	15.3%	16.1%	17.9%
Oxytocin	75.9%	76.0%	79.0%	79.2%	81.3%
Prostaglandin	39.3%	36.6%	35.8%	34.7%	34.4%
Other	2.0%	1.7%	2.1%	5.4%	8.0%

Multiple methods may be used.
Definitions and specifications begin on Page 81 of this document.

Primary Indication for Labour Induction

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Primary Indication for Labour Induction	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Prelabour Rupture of Membranes	41.9%	41.6%	40.4%	40.3%	36.5%
Post Dates	14.0%	14.1%	14.8%	12.7%	10.8%
Hypertension in Pregnancy	11.6%	12.7%	11.5%	12.6%	13.8%
Other Maternal Condition	5.8%	6.7%	6.3%	5.3%	9.0%
Fetal Compromise	7.7%	6.1%	4.0%	5.3%	7.1%
Diabetes	9.3%	9.7%	10.5%	9.7%	10.5%
Fetal Demise	1.7%	1.2%	0.9%	0.7%	0.8%
Logistics	NR	NR	NR	NR	NR
Antepartum Hemorrhage	NR	NR	0.3%	NR	NR
Chorioamnionitis	NR	NR	NR	NR	NR
Other	7.5%	7.6%	11.0%	12.7%	11.3%
Unknown	NR	NR	NR	NR	NR

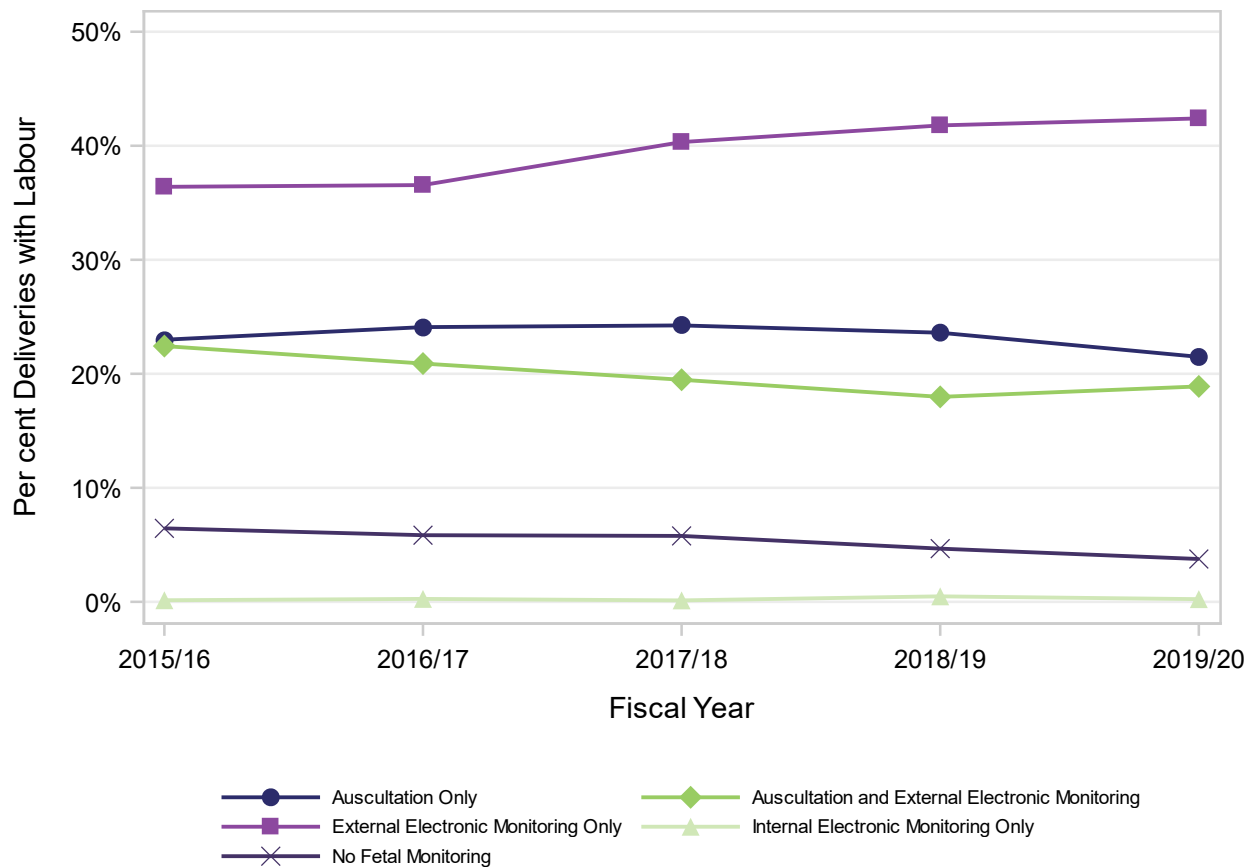
Selected indications are included in the figure; all indications are included in the table.

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

Definitions and specifications begin on Page 81 of this document.

Method of Fetal Surveillance During Labour

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

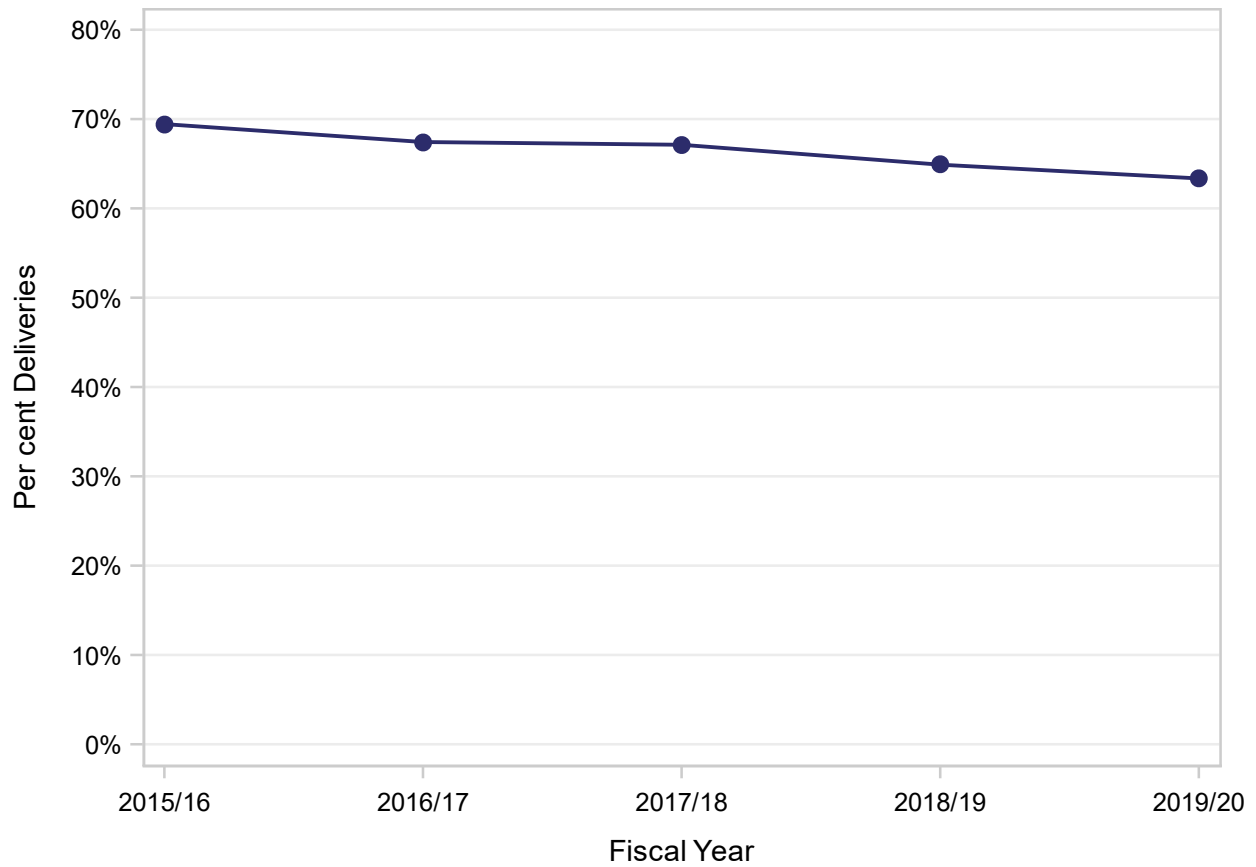


Method of Fetal Surveillance During Labour	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Auscultation Only	23.0%	24.1%	24.2%	23.6%	21.5%
Auscultation and External Electronic Monitoring	22.4%	20.9%	19.5%	18.0%	18.9%
External Electronic Monitoring Only	36.4%	36.6%	40.3%	41.8%	42.4%
Internal Electronic Monitoring Only	0.1%	0.3%	0.1%	0.5%	0.2%
No Fetal Monitoring	6.4%	5.8%	5.8%	4.7%	3.8%

Definitions and specifications begin on Page 81 of this document.

Vaginal Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

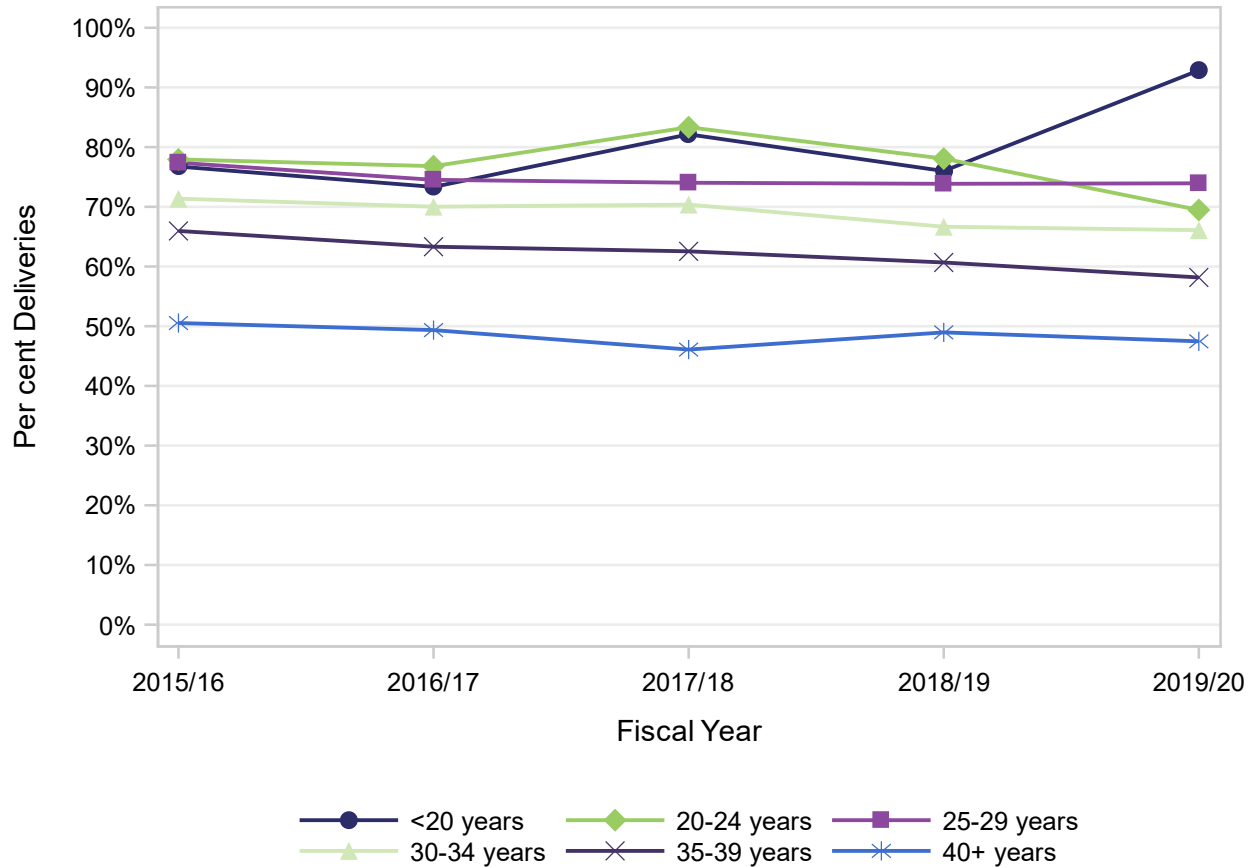


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Vaginal Delivery	69.4%	67.4%	67.1%	64.9%	63.4%

Definitions and specifications begin on Page 81 of this document.

Vaginal Delivery by Maternal Age

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

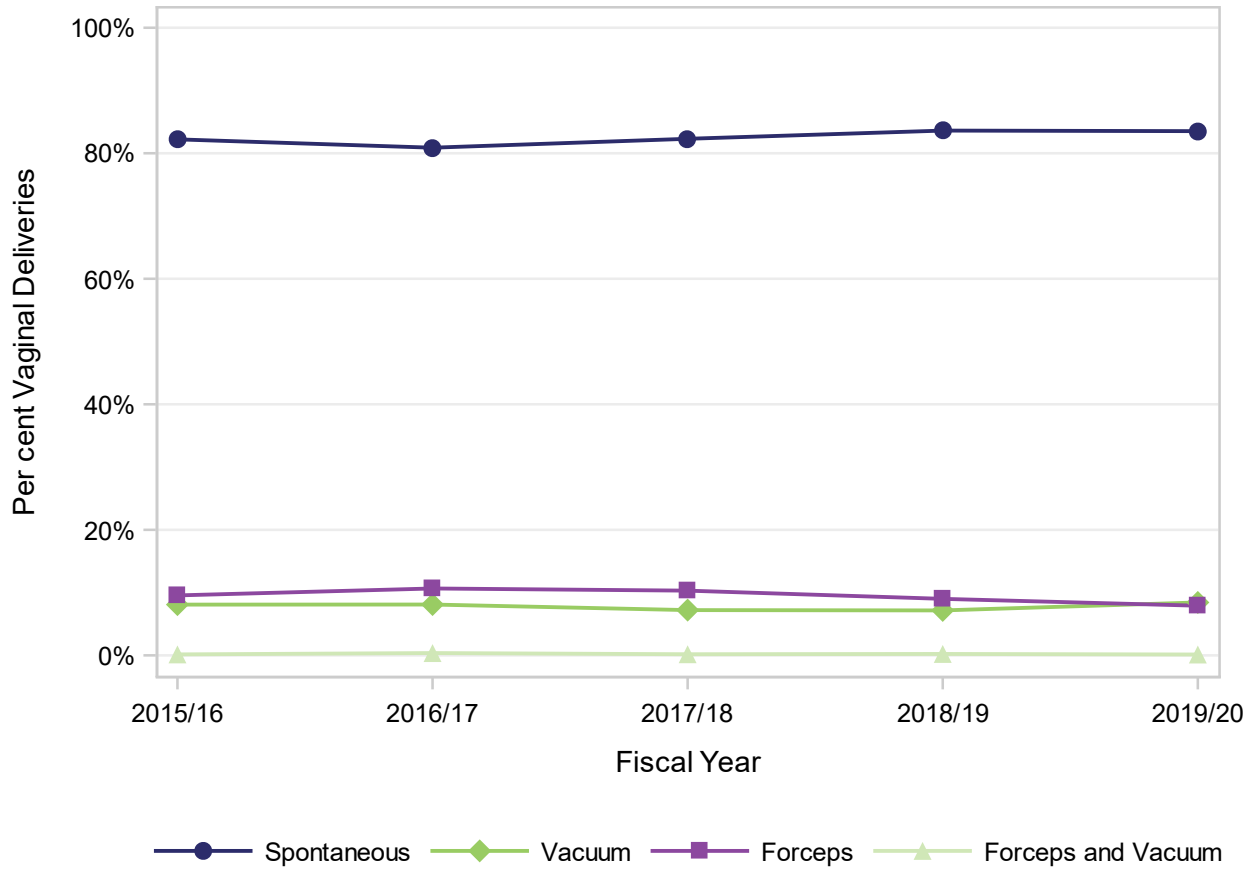


Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	76.7%	73.3%	82.1%	76.0%	92.9%
20-24 years	77.9%	76.8%	83.3%	78.1%	69.5%
25-29 years	77.4%	74.5%	74.0%	73.9%	73.9%
30-34 years	71.4%	70.0%	70.4%	66.7%	66.1%
35-39 years	66.0%	63.3%	62.5%	60.7%	58.2%
40+ years	50.5%	49.3%	46.1%	49.0%	47.5%

Definitions and specifications begin on Page 81 of this document.

Type of Vaginal Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

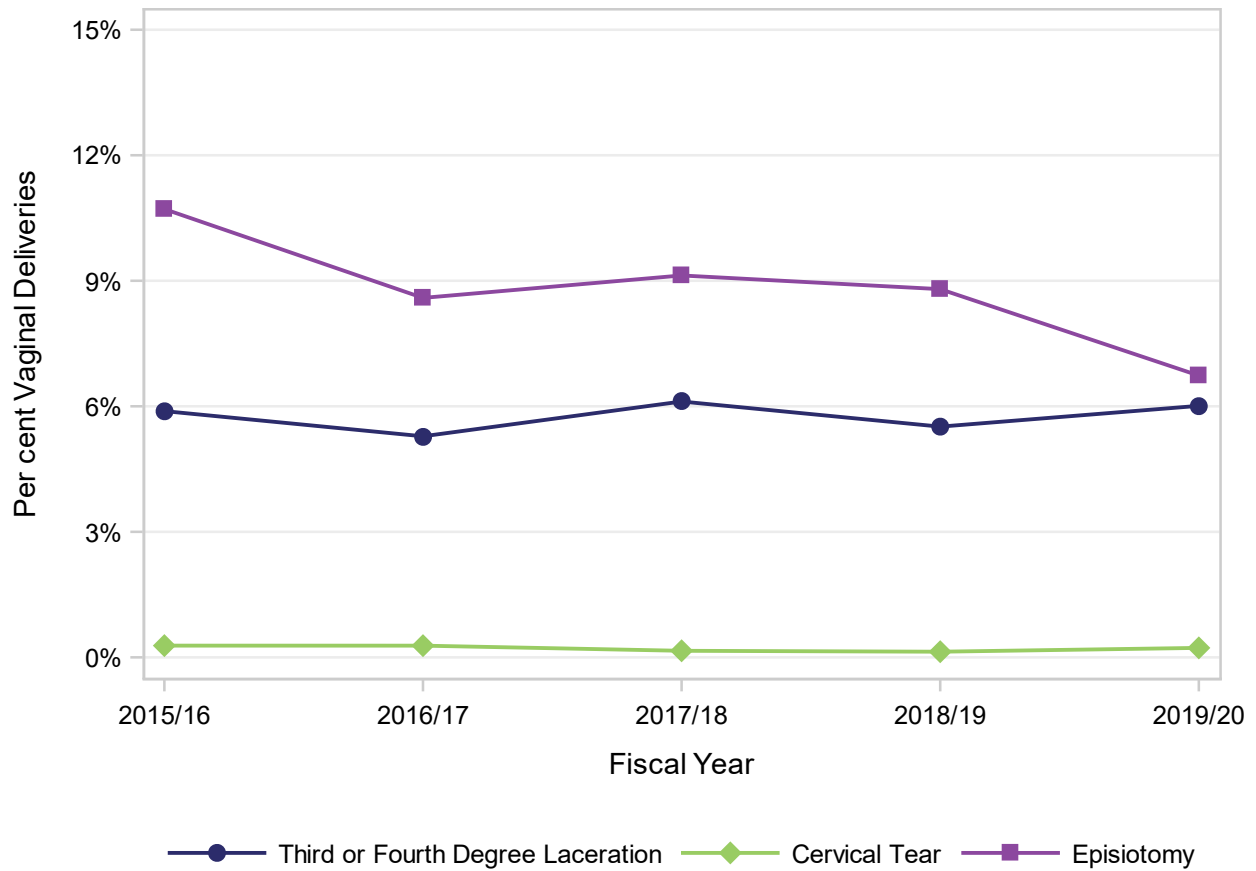


Type of Vaginal Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous	82.2%	80.9%	82.3%	83.6%	83.5%
Vacuum	8.1%	8.1%	7.2%	7.2%	8.4%
Forceps	9.5%	10.7%	10.3%	9.0%	7.9%
Forceps and Vacuum	0.2%	0.4%	0.2%	0.2%	0.1%

Definitions and specifications begin on Page 81 of this document.

Perineal Trauma

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

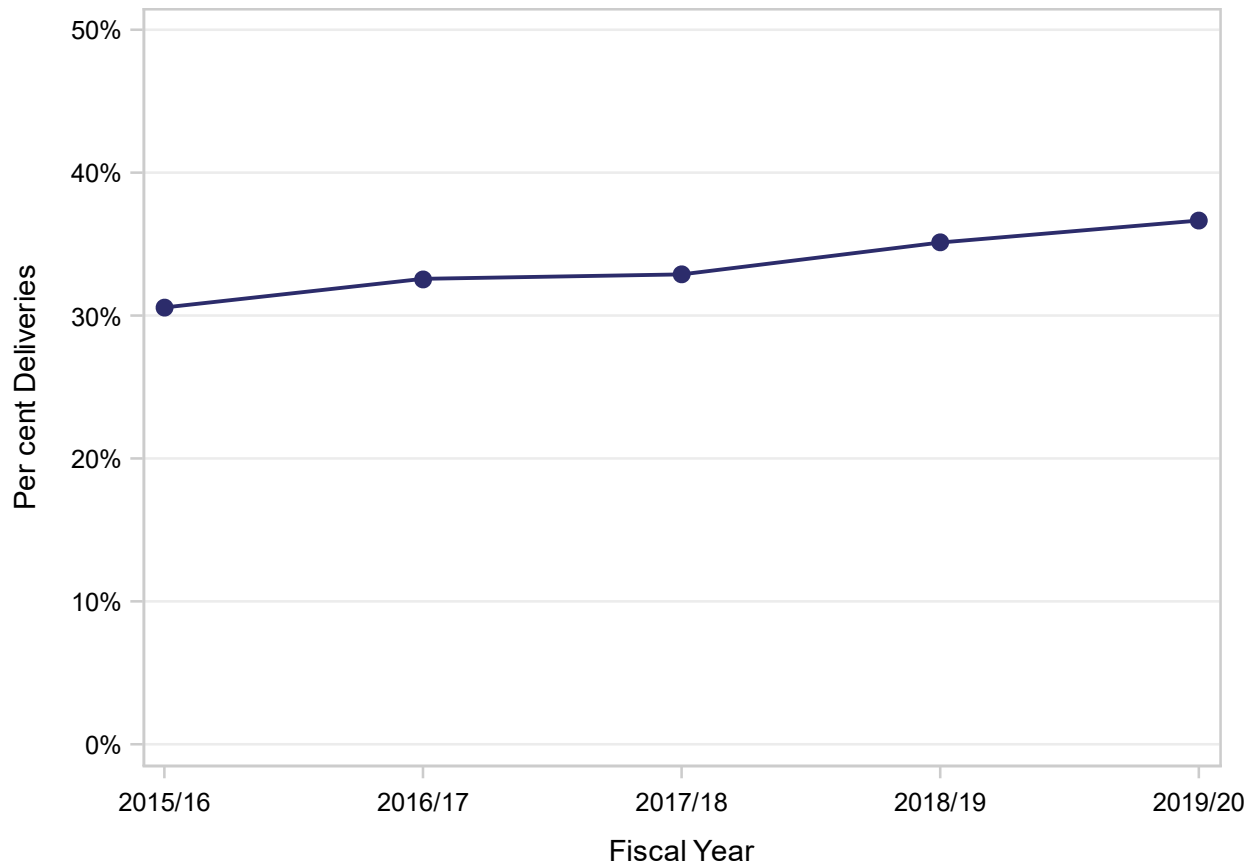


Perineal Trauma	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Third or Fourth Degree Laceration	5.9%	5.3%	6.1%	5.5%	6.0%
Cervical Tear	0.3%	0.3%	0.2%	0.1%	0.2%
Episiotomy	10.7%	8.6%	9.1%	8.8%	6.7%

Definitions and specifications begin on Page 81 of this document.

Cesarean Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

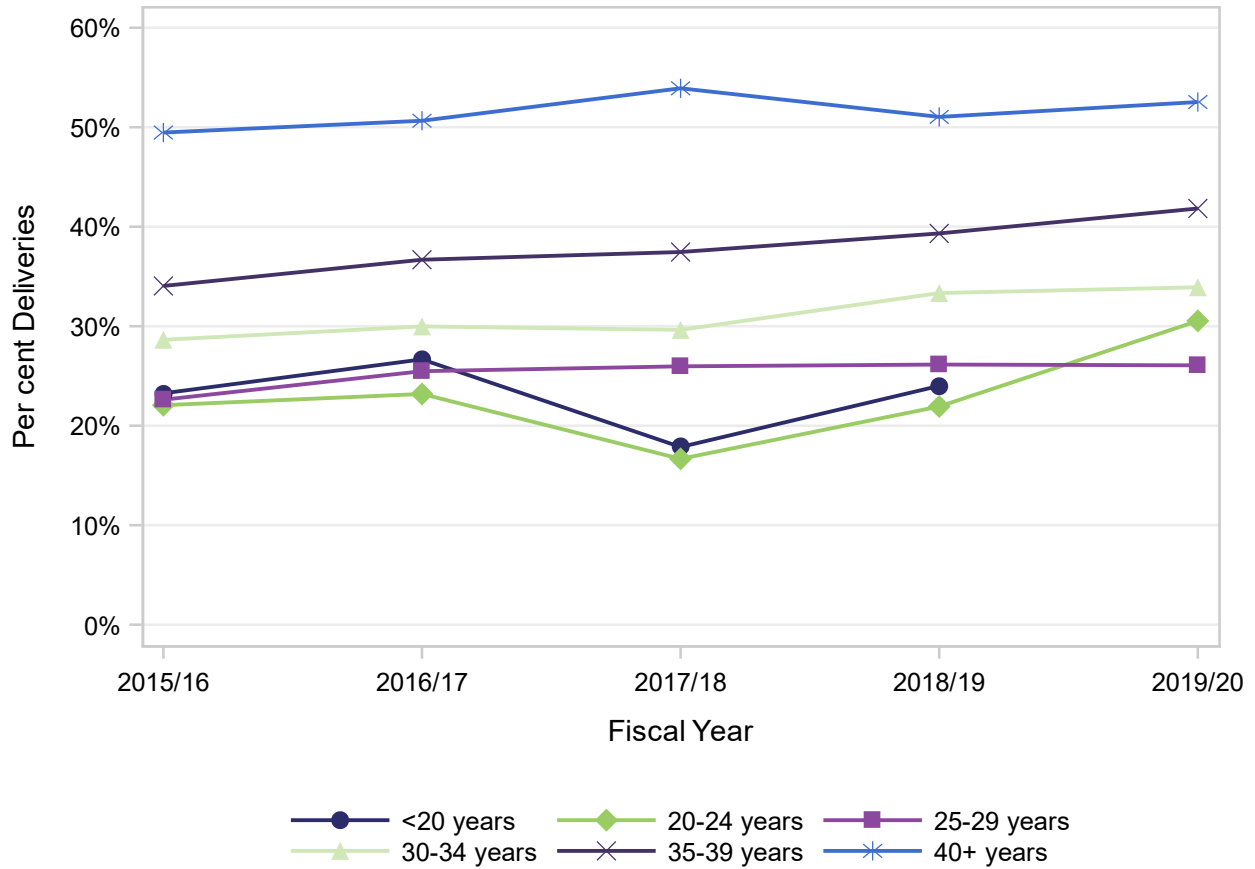


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Cesarean Delivery	30.6%	32.6%	32.9%	35.1%	36.6%

Definitions and specifications begin on Page 81 of this document.

Cesarean Delivery by Maternal Age

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

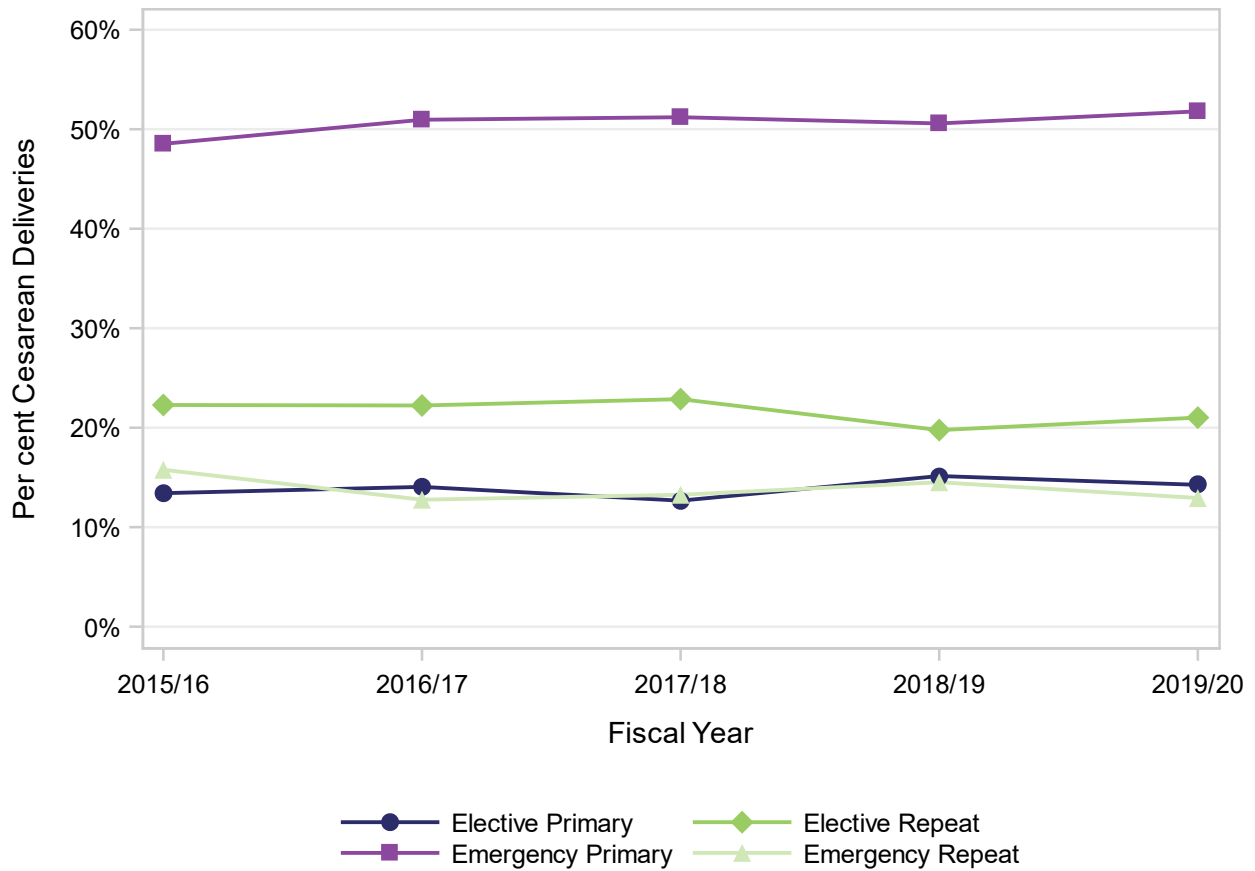


Maternal Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
<20 years	23.3%	26.7%	17.9%	24.0%	NR
20-24 years	22.1%	23.2%	16.7%	21.9%	30.5%
25-29 years	22.6%	25.5%	26.0%	26.1%	26.1%
30-34 years	28.6%	30.0%	29.6%	33.3%	33.9%
35-39 years	34.0%	36.7%	37.5%	39.3%	41.8%
40+ years	49.5%	50.7%	53.9%	51.0%	52.5%

Definitions and specifications begin on Page 81 of this document.

Type of Cesarean Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

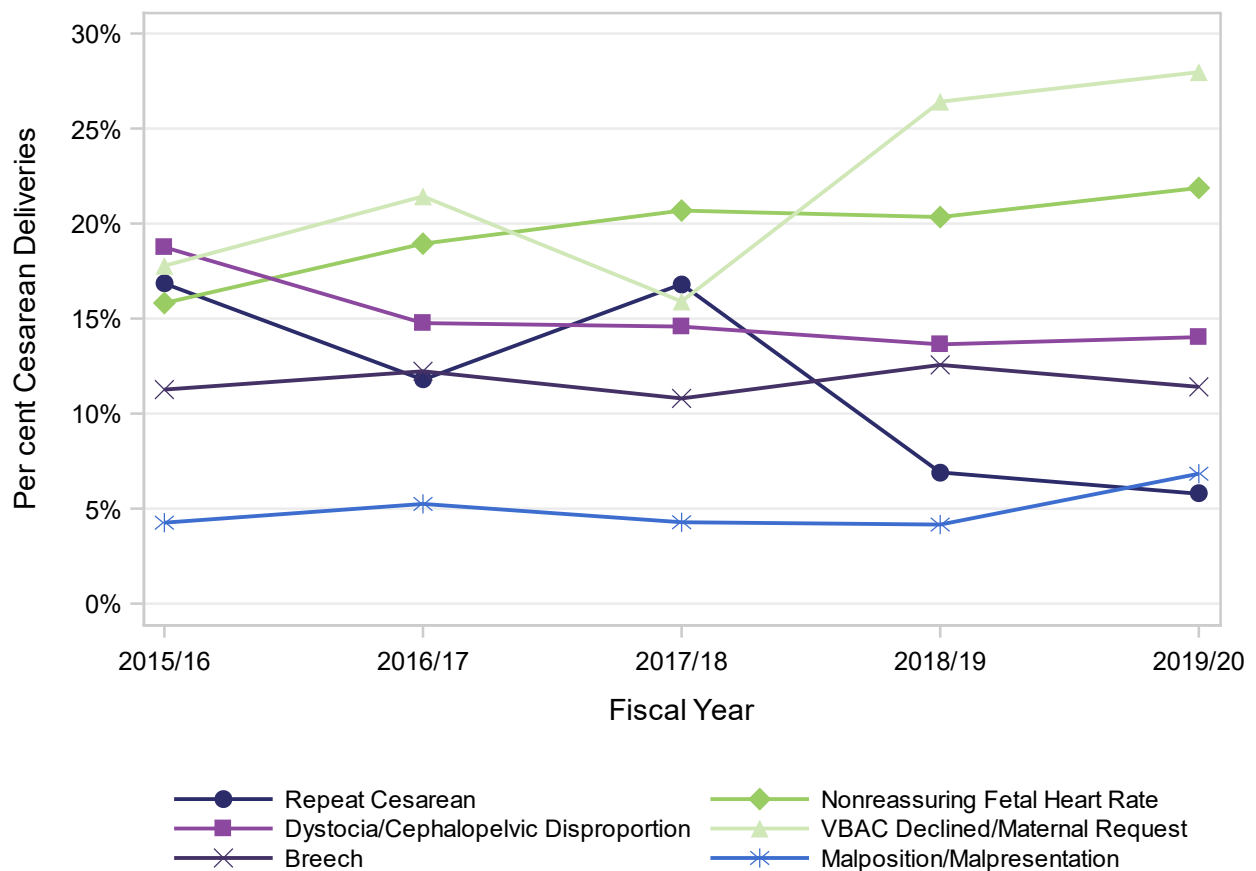


Type of Cesarean Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Elective Primary	13.4%	14.1%	12.7%	15.1%	14.3%
Elective Repeat	22.3%	22.2%	22.9%	19.8%	21.0%
Emergency Primary	48.5%	51.0%	51.2%	50.6%	51.8%
Emergency Repeat	15.8%	12.8%	13.3%	14.5%	12.9%

Definitions and specifications begin on Page 81 of this document.

Primary Indication for Cesarean Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Primary Indication for Cesarean Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Repeat Cesarean	16.8%	11.8%	16.8%	6.9%	5.8%
Nonreassuring Fetal Heart Rate	15.8%	18.9%	20.7%	20.3%	21.9%
Dystocia/Cephalopelvic Disproportion	18.8%	14.8%	14.6%	13.6%	14.0%
VBAC Declined/Maternal Request	17.8%	21.4%	15.9%	26.4%	28.0%
Breech	11.3%	12.2%	10.8%	12.6%	11.4%
Malposition/Malpresentation	4.3%	5.2%	4.3%	4.2%	6.8%
Placenta Previa	2.5%	2.0%	3.0%	2.2%	2.0%
Abruptio Placenta	0.9%	0.8%	0.8%	0.5%	0.6%
Active Herpes	0.2%	0.3%	NR	NR	NR
Other	11.6%	12.5%	13.2%	13.1%	9.5%
Unknown	NR	NR	NR	NR	NR

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

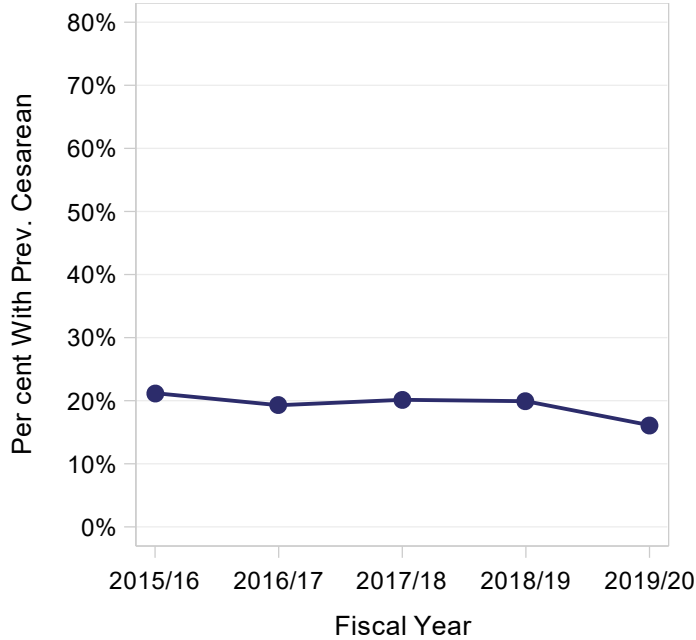
NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Definitions and specifications begin on Page 81 of this document.

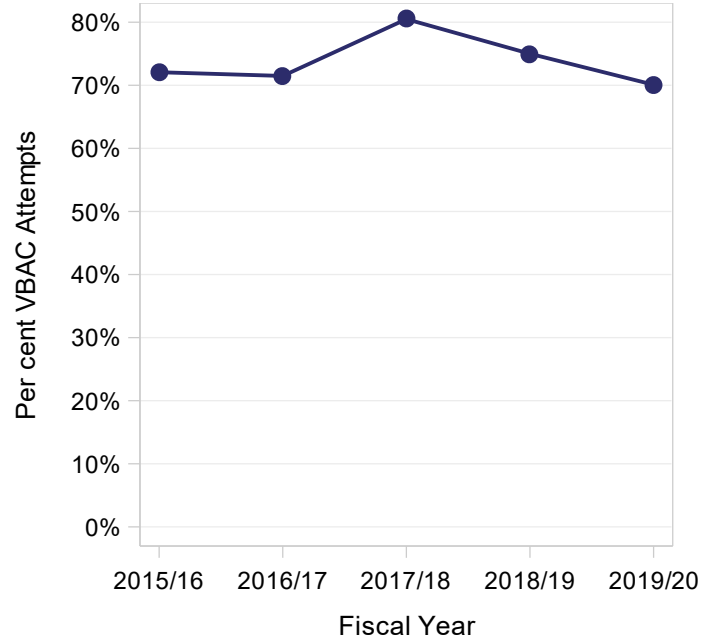
Vaginal Birth After Cesarean (VBAC)

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

Crude VBAC Rate



VBAC Success Rate



Vaginal Birth After Cesarean (VBAC)

	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Crude VBAC Rate	21.2%	19.3%	20.1%	19.9%	16.1%
VBAC Eligible Rate	86.7%	81.2%	78.1%	81.1%	79.1%
VBAC Attempted Rate	33.9%	33.2%	31.7%	32.6%	28.6%
VBAC Success Rate	72.1%	71.5%	80.5%	75.0%	70.1%

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

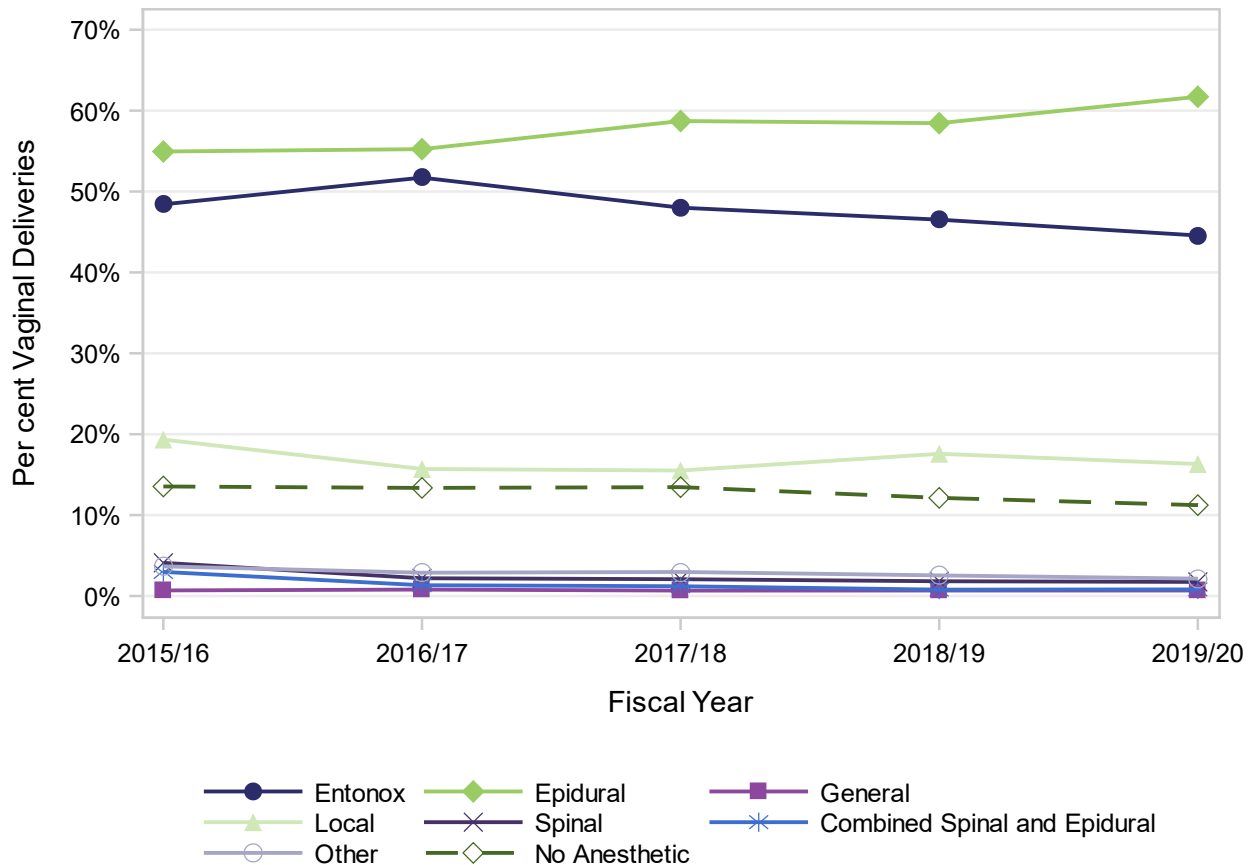
VBAC Attempted Rate: Women who attempted a VBAC / Women considered eligible for VBAC

VBAC Success Rate: Women with a vaginal delivery / Women who were eligible for and attempted VBAC

Definitions and specifications begin on Page 81 of this document.

Anesthesia or Analgesia During Labour and Delivery Vaginal Deliveries

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Anesthesia or Analgesia	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Entonox	48.4%	51.7%	48.0%	46.5%	44.6%
Epidural	54.9%	55.2%	58.7%	58.5%	61.7%
General	0.7%	0.8%	0.7%	0.7%	0.7%
Local	19.3%	15.7%	15.5%	17.6%	16.3%
Spinal	4.1%	2.2%	2.1%	1.8%	1.7%
Combined Spinal and Epidural	-	-	-	NR	0.8%
Other	3.7%	2.9%	3.0%	2.5%	2.1%
No Anesthetic	13.5%	13.4%	13.5%	12.1%	11.2%

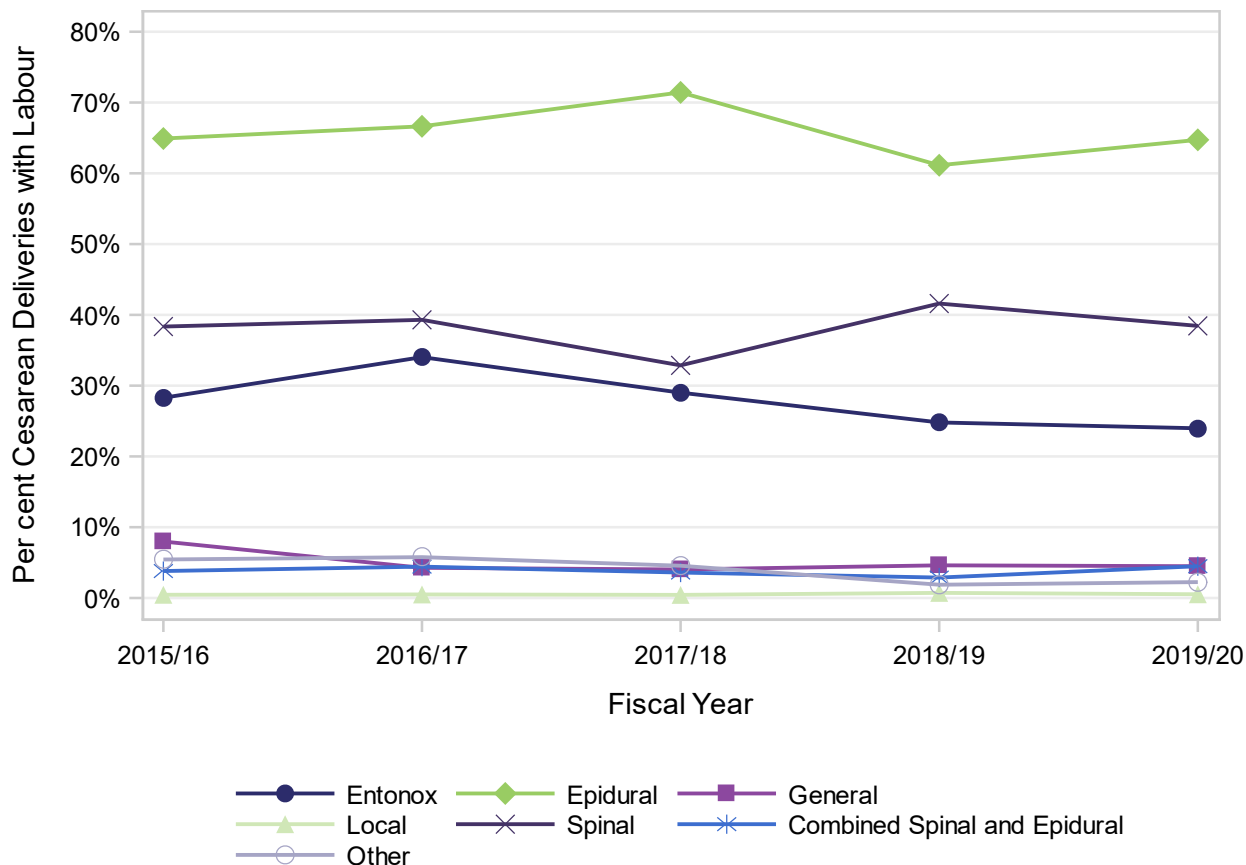
Effective April 2015, Combined spinal and epidural anaesthetic (CSE) is coded when a combined spinal and epidural are given at the same time. Multiple agents may be used.

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

Definitions and specifications begin on Page 81 of this document.

Anesthesia or Analgesia During Labour and Delivery Cesarean Deliveries with Labour

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Anesthesia or Analgesia	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Entonox	28.3%	34.0%	29.0%	24.8%	24.0%
Epidural	64.9%	66.6%	71.4%	61.1%	64.7%
General	8.0%	4.3%	4.0%	4.6%	4.5%
Local	0.5%	0.5%	0.4%	0.7%	0.5%
Spinal	38.3%	39.3%	32.9%	41.6%	38.4%
Combined Spinal and Epidural	-	-	-	NR	4.5%
Other	5.4%	5.8%	4.6%	1.9%	2.2%

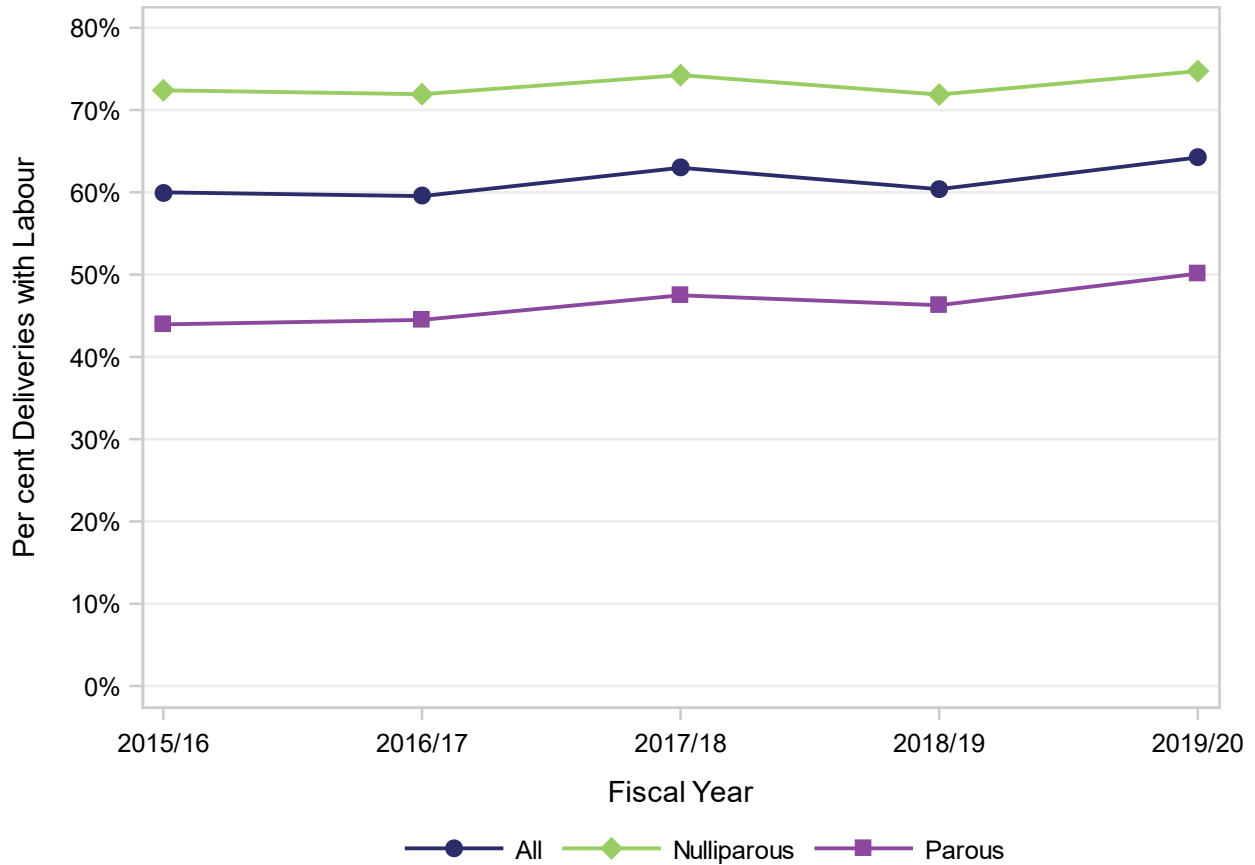
Effective April 2015, Combined spinal and epidural anaesthetic (CSE) is coded when a combined spinal and epidural are given at the same time. Multiple agents may be used.

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

Definitions and specifications begin on Page 81 of this document.

Epidural Anesthesia or Analgesia During Labour and Delivery by Parity

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

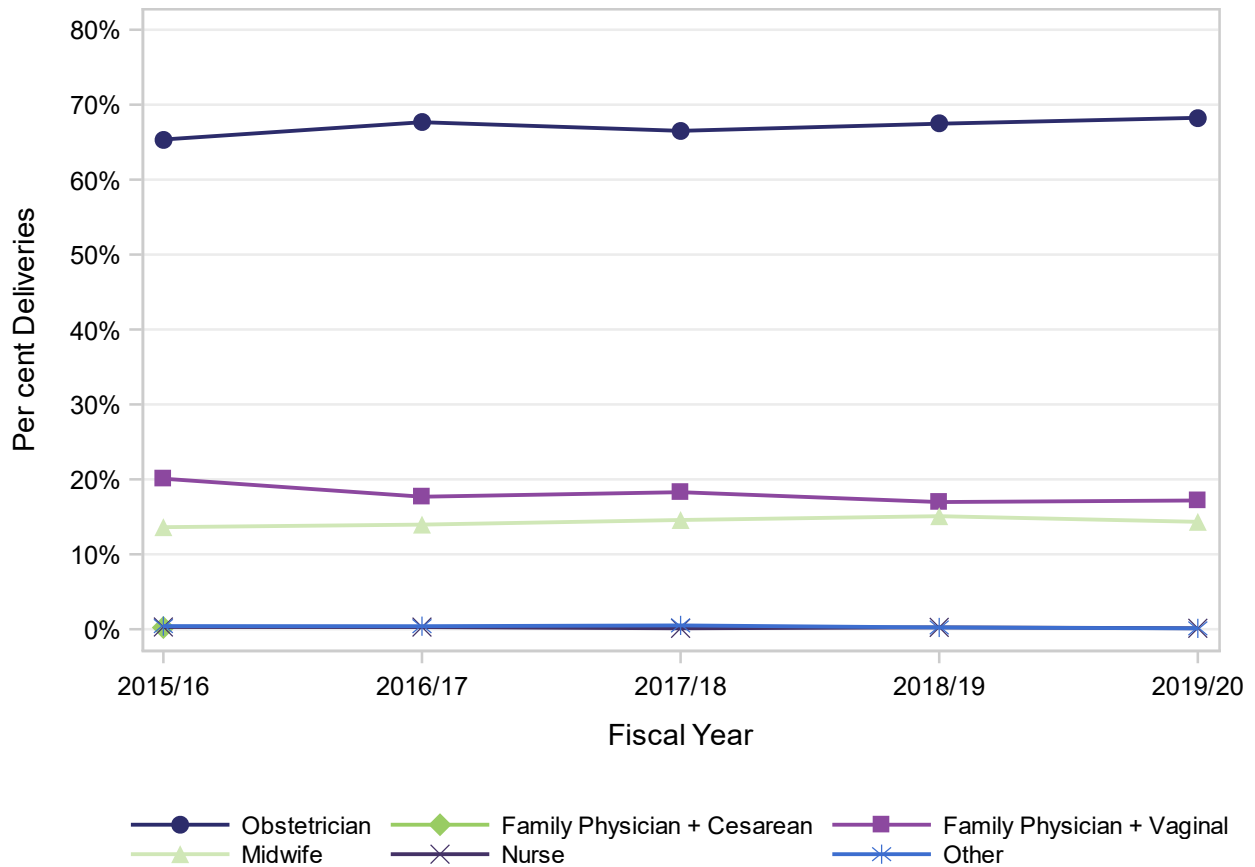


Parity	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
All	60.0%	59.5%	63.0%	60.4%	64.2%
Nulliparous	72.4%	71.9%	74.2%	71.9%	74.7%
Parous	43.9%	44.5%	47.5%	46.3%	50.1%

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 81 of this document.

Delivery Provider

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

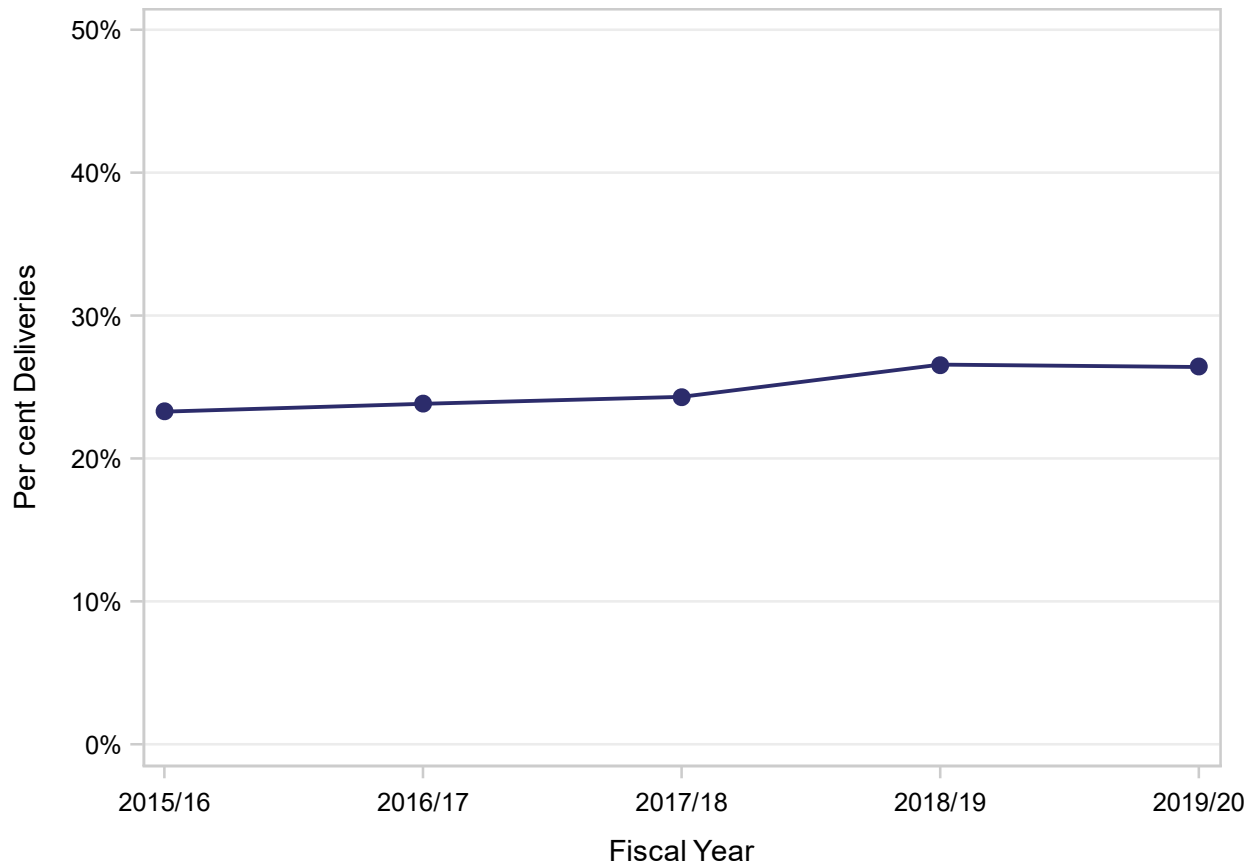


Delivery Provider	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Obstetrician	65.3%	67.7%	66.5%	67.5%	68.2%
Surgeon	NR	NR	NR	NR	NR
Family Physician + Cesarean	0.2%	NR	NR	NR	NR
Family Physician + Vaginal	20.1%	17.7%	18.3%	17.0%	17.2%
Midwife	13.6%	14.0%	14.6%	15.1%	14.3%
Nurse	0.3%	0.3%	0.1%	0.2%	0.1%
Other	0.4%	0.4%	0.5%	0.2%	0.1%

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. NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 81 of this document.

Deliveries with Midwifery-Involved Care

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



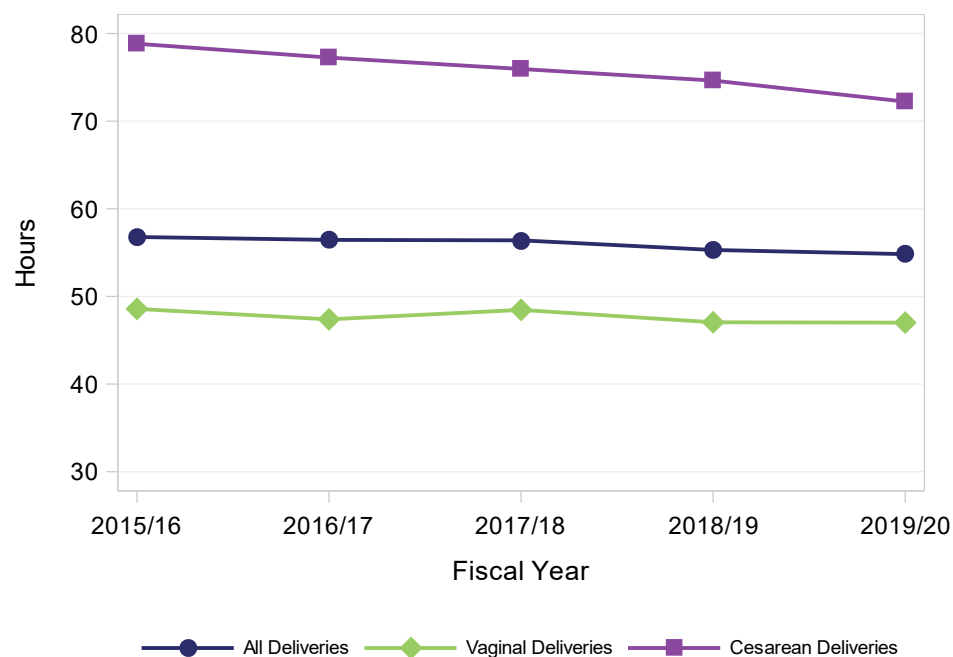
	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Deliveries with Midwifery-Involved Care	23.3%	23.8%	24.3%	26.6%	26.4%

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 81 of this document.

Length of Stay for the Delivery Episode of Care by Mode of Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

Median Total Length of Stay (Hours)



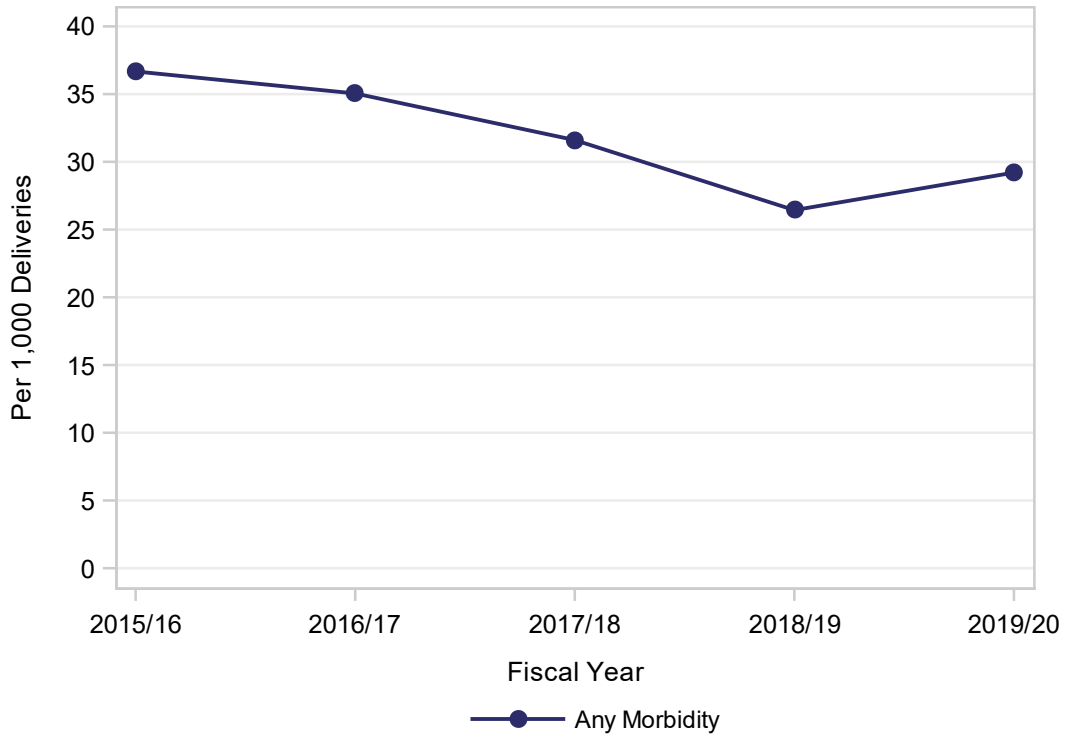
Median Antepartum, Postpartum, and Total Length of Stay for the Delivery Episode of Care

Mode of Delivery	Antepartum LOS (Hours)					Postpartum LOS (Hours)					Total LOS (Hours)				
	Fiscal Year					Fiscal Year					Fiscal Year				
	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	6.6	6.7	7.6	7.1	7.4	49.6	49.6	48.7	48.2	47.6	56.8	56.5	56.4	55.3	54.8
Vaginal Deliveries	7.2	7.1	8.0	7.6	7.8	40.1	38.9	39.4	38.1	38.0	48.6	47.4	48.5	47.1	47.0
Cesarean Deliveries	4.8	5.3	5.9	5.3	5.9	71.5	69.2	65.0	63.3	58.9	78.8	77.3	76.0	74.6	72.2

Deliveries outside acute care facilities are excluded.
Definitions and specifications begin on Page 81 of this document.

Maternal Morbidity

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



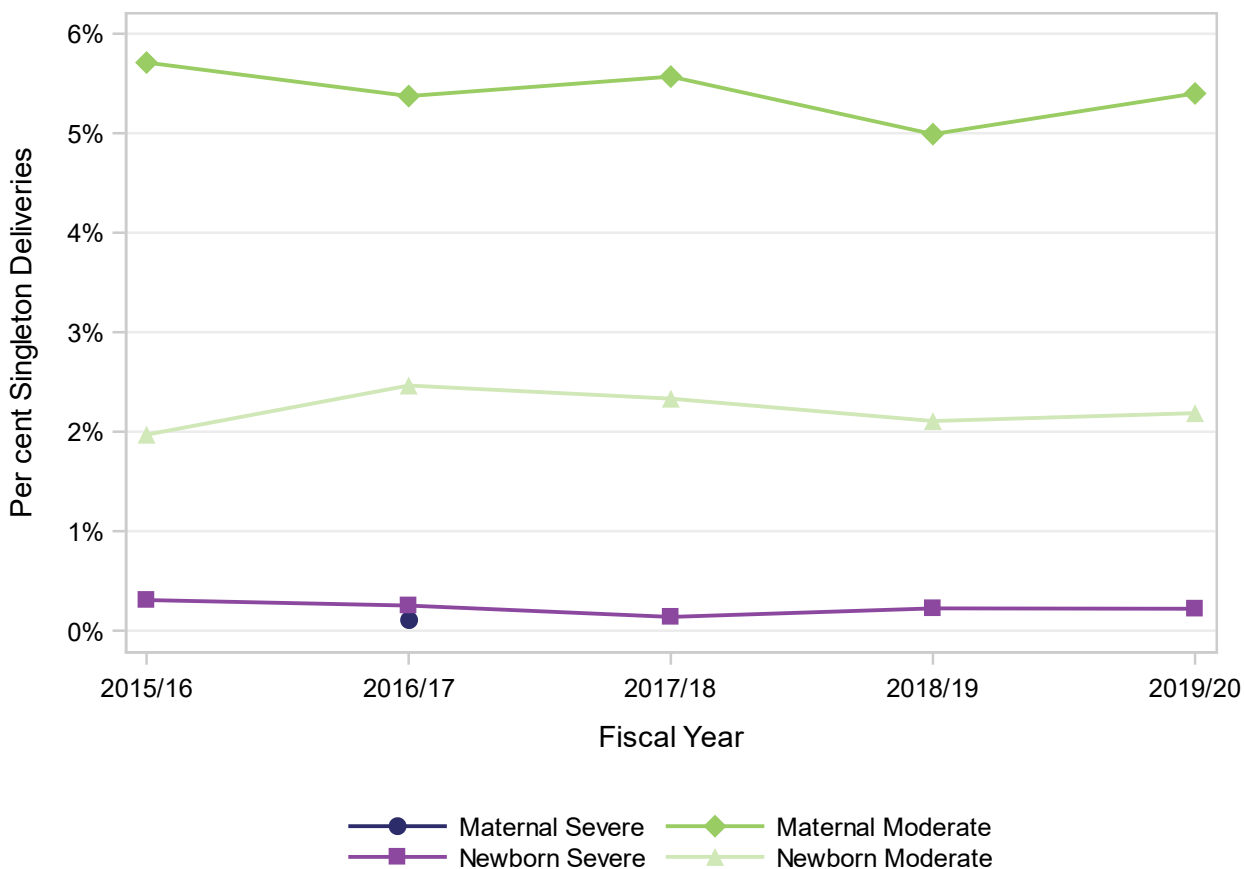
Specific Maternal Morbidities

Type of Morbidity	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
Liver Complications	9.3	6.5	8.2	5.7	8.0
Postpartum Hemorrhage with Transfusion	8.8	11.7	8.4	8.5	6.9
Urinary Tract Infection	6.4	5.5	4.2	3.9	3.9
Sepsis	7.5	5.8	6.3	4.1	5.6
Wound Infection	3.4	2.9	3.4	3.4	3.1
HELLP	4.3	4.2	4.6	3.7	3.0
Anesthetic Complications	2.5	2.6	1.9	1.2	2.3
Antepartum Hemorrhage with Transfusion	2.7	4.3	2.2	2.8	4.0
Eclampsia	NR	NR	NR	NR	0.0
Shock	0.9	NR	NR	NR	NR
Pulmonary Embolism	0.9	NR	0.0	0.0	NR
Postpartum Hemorrhage with Hysterectomy	NR	NR	NR	NR	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 81 of this document.

Adverse Outcome of Labour or Delivery

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

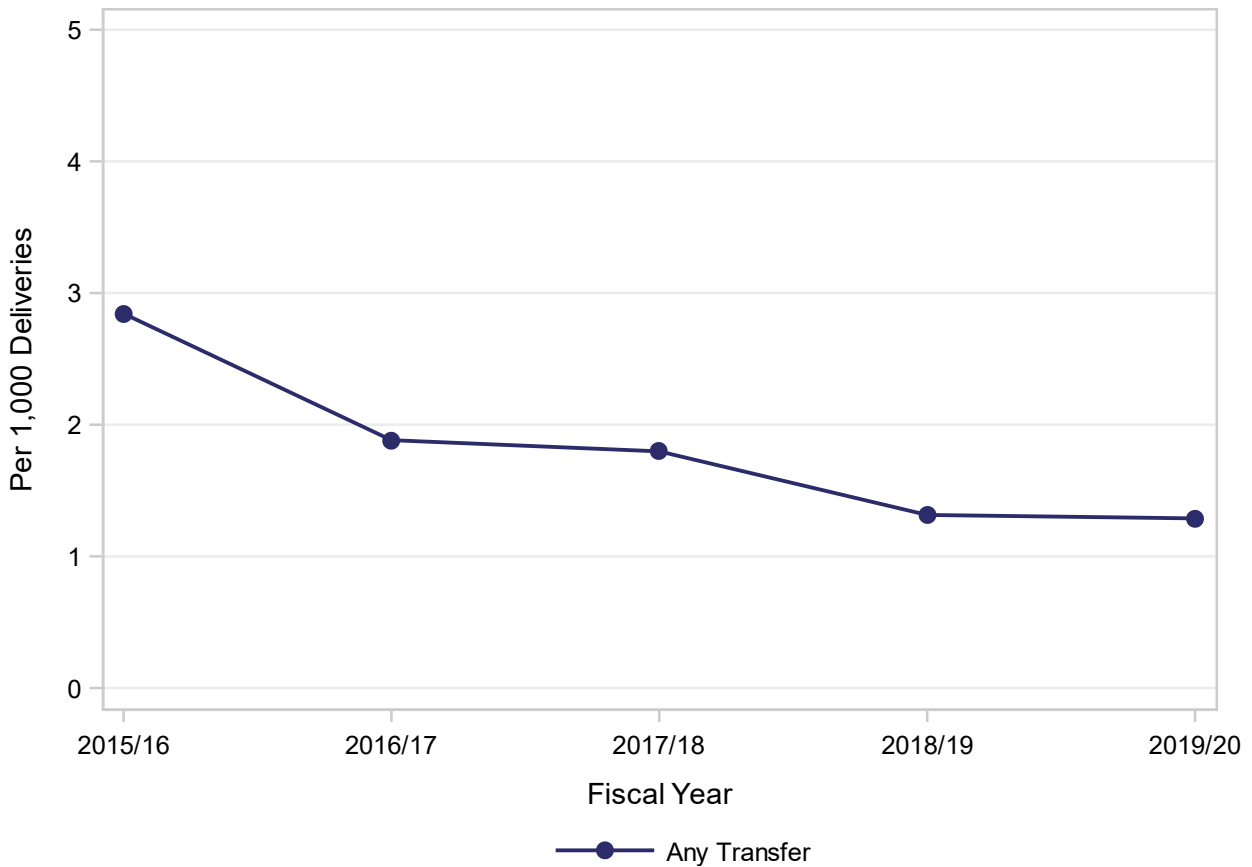


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Any Adverse Outcome	7.8%	7.9%	7.9%	7.2%	7.6%
Maternal Severe Adverse Outcome	NR	0.1%	NR	NR	NR
Maternal Moderate Adverse Outcome	5.7%	5.4%	5.6%	5.0%	5.4%
Neonatal Severe Adverse Outcome	0.3%	0.3%	0.1%	0.2%	0.2%
Neonatal Moderate Adverse Outcome	2.0%	2.5%	2.3%	2.1%	2.2%

NR: Rates and per cents based on numerators of 1 to 4 are not reported.
Definitions and specifications begin on Page 81 of this document.

Maternal Hospital Transfers

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

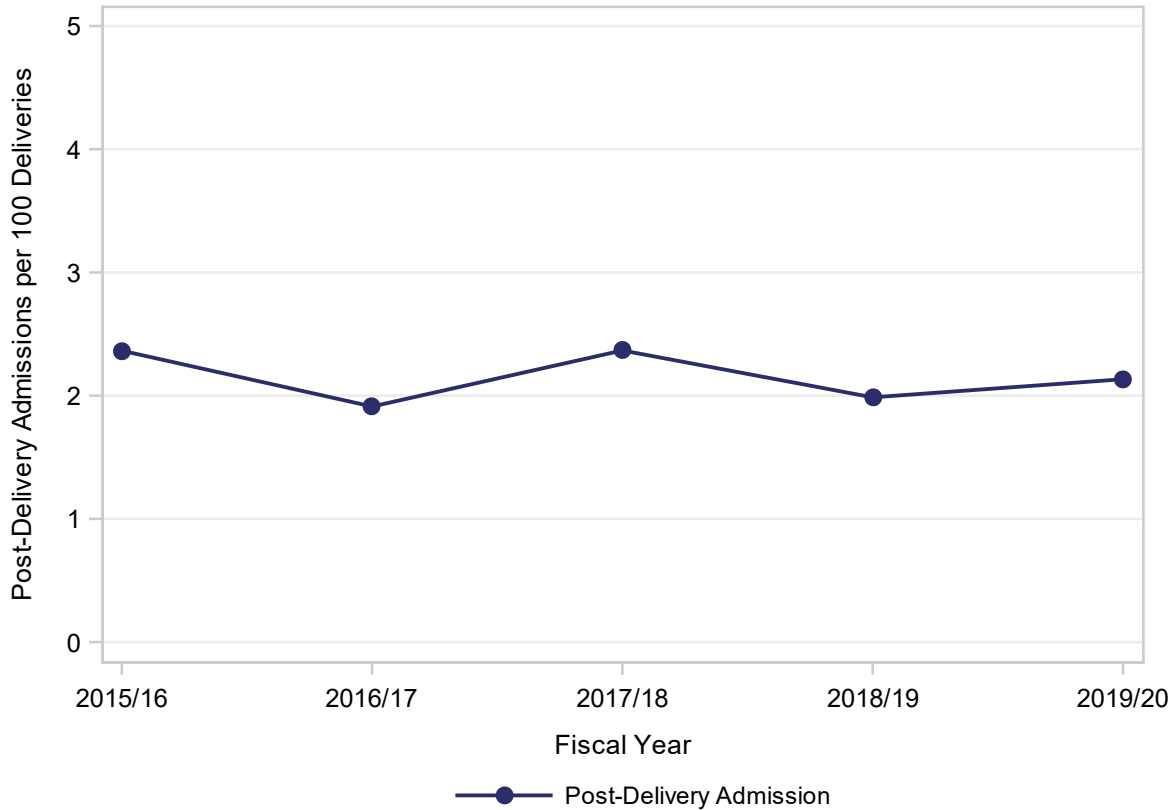


Type of Transfer	Fiscal Year				
	2015/16 per 1,000	2016/17 per 1,000	2017/18 per 1,000	2018/19 per 1,000	2019/20 per 1,000
Any Transfer	2.8	1.9	1.8	1.3	1.3

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. Definitions and specifications begin on Page 81 of this document.

Post-Delivery Admissions

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



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

Most Responsible Diagnosis	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Postpartum Infection	21.5%	19.7%	23.4%	21.3%	24.2%
Hypertension or Eclampsia	8.2%	19.7%	19.0%	19.1%	22.1%
Other Diseases Complicating Pregnancy	15.8%	17.4%	13.9%	17.6%	20.8%
Postpartum Hemorrhage	17.1%	16.7%	21.5%	15.4%	18.8%
Complications of Anesthesia	7.6%	4.5%	NR	5.1%	3.4%
Retained Placenta Without Hemorrhage	NR	NR	NR	NR	0.0%
Routine Postpartum Care	4.4%	NR	0.0%	NR	NR
Other Wound Issues	7.0%	3.8%	5.7%	5.1%	NR
Care of Breasts	3.2%	NR	3.2%	NR	NR
Pregnancy-Associated Mental Health	0.0%	NR	NR	NR	NR

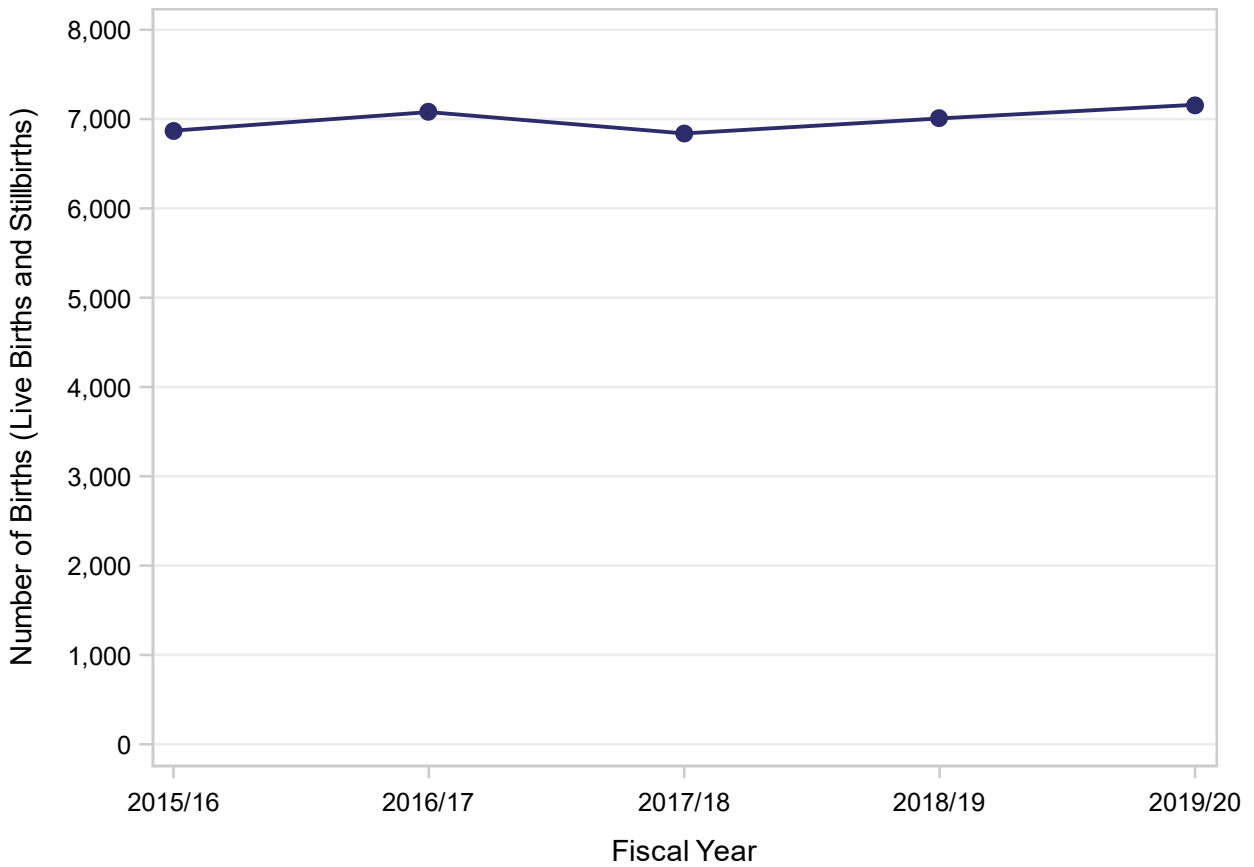
Post-Delivery Admissions include inter-hospital transfers and readmissions from home.
NR: Rates and per cents based on numerators of 1 to 4 are not reported.
Definitions and specifications begin on Page 81 of this document.

Perinatal Health Report 2015/16 to 2019/20
Provincial Health Services Authority

Section 3: Newborn Health

Total Births

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

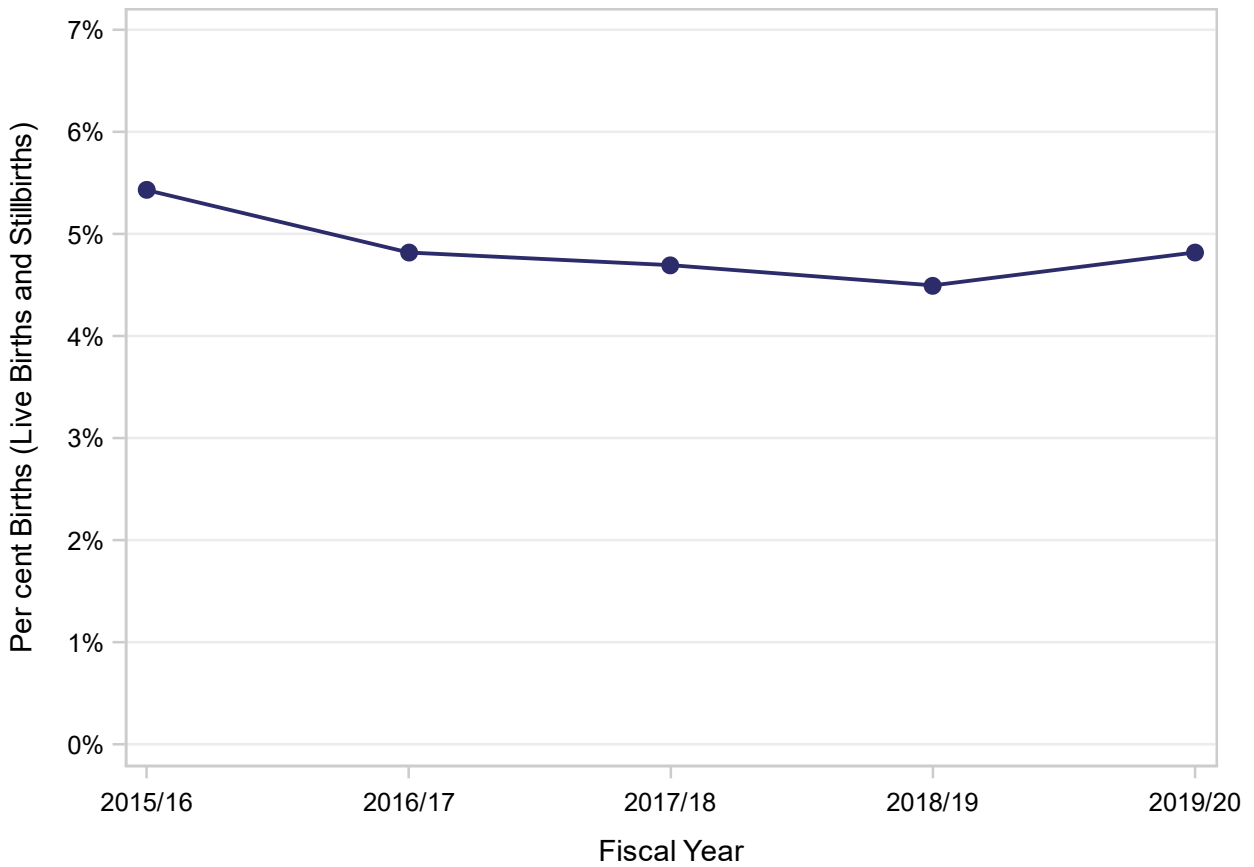


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Provincial Health Services Authority	6,870	7,078	6,839	7,007	7,160

Definitions and specifications begin on Page 81 of this document.

Births Part of a Multiple Gestation

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

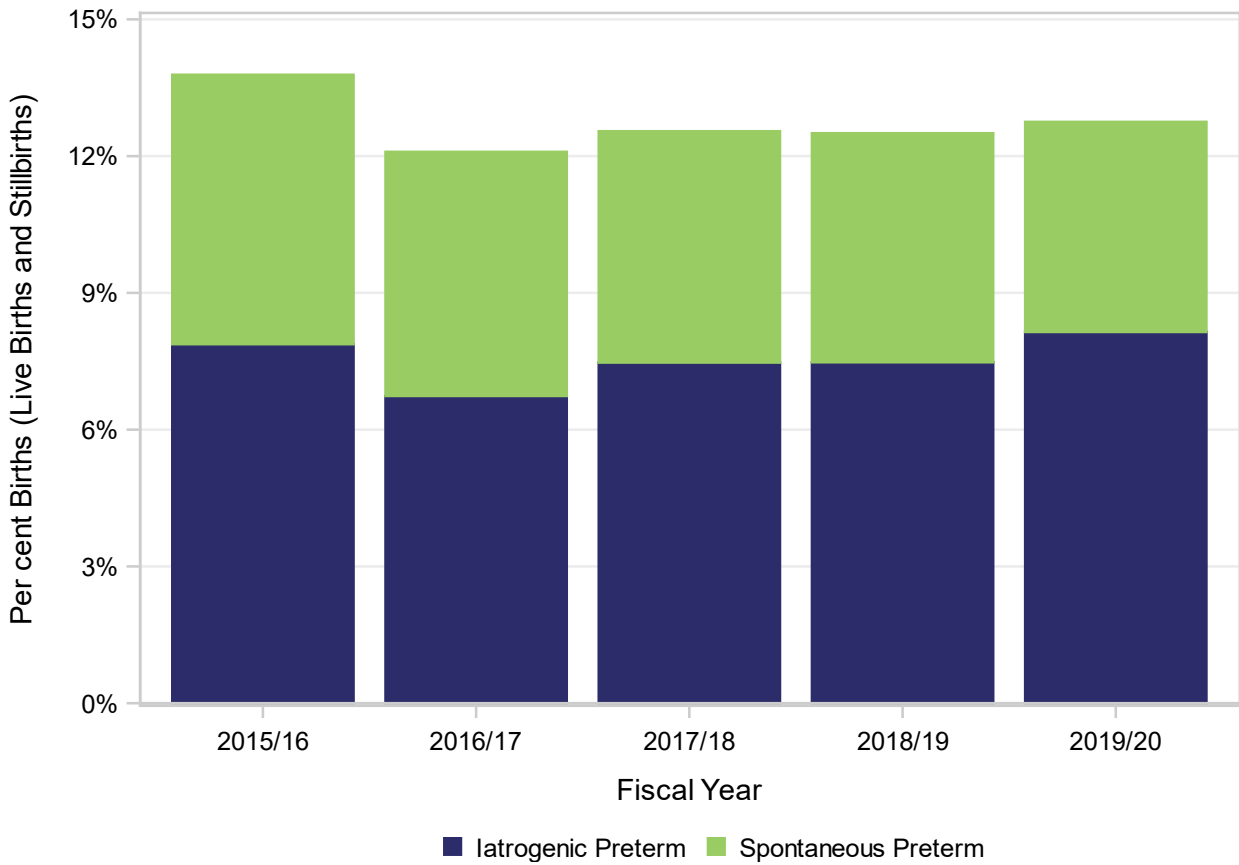


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Multiple Gestation	5.4%	4.8%	4.7%	4.5%	4.8%

Includes twin, triplet, and quadruplet births.
 Definitions and specifications begin on Page 81 of this document.

Preterm Birth

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

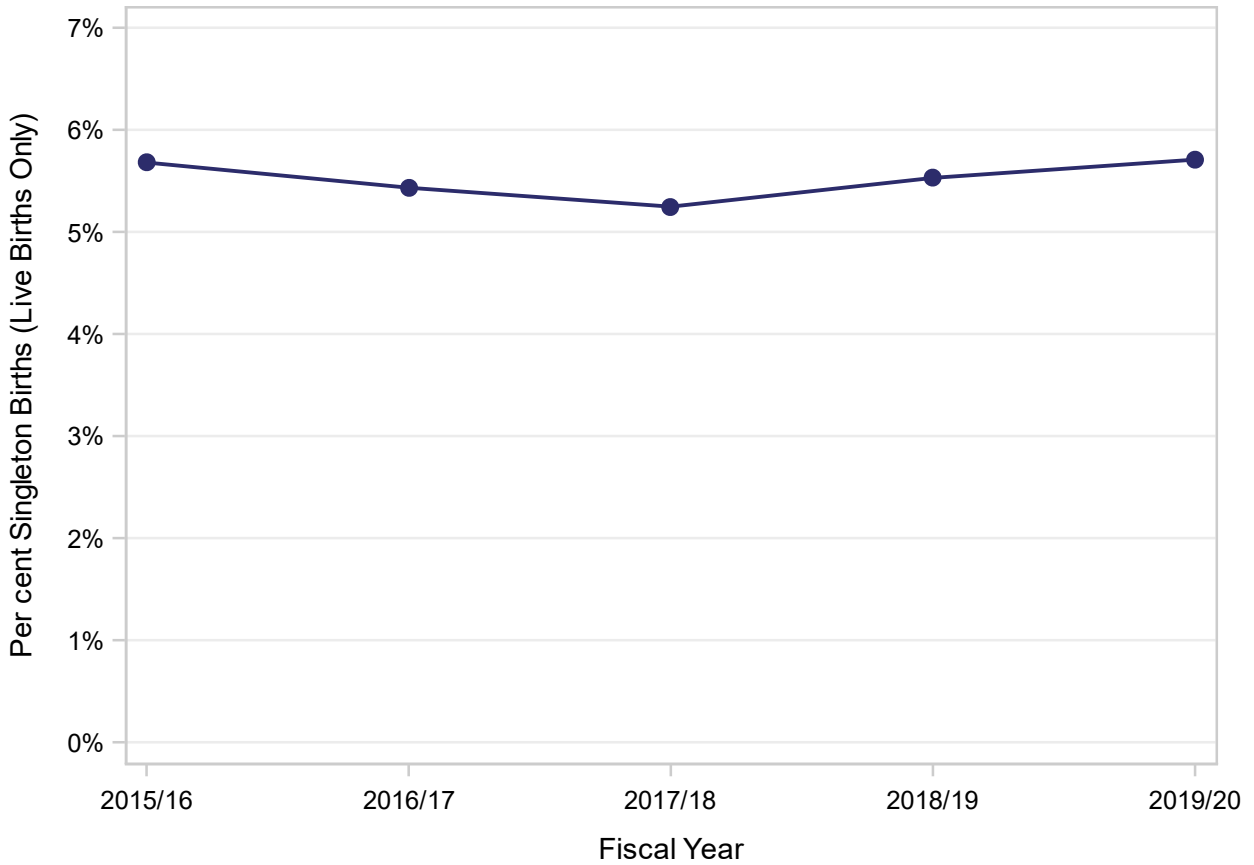


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Iatrogenic Preterm	7.9%	6.7%	7.5%	7.5%	8.1%
Spontaneous Preterm	5.9%	5.4%	5.1%	5.0%	4.6%
Total Preterm	13.8%	12.1%	12.5%	12.5%	12.8%

Definitions and specifications begin on Page 81 of this document.

Low Birthweight Singletons

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

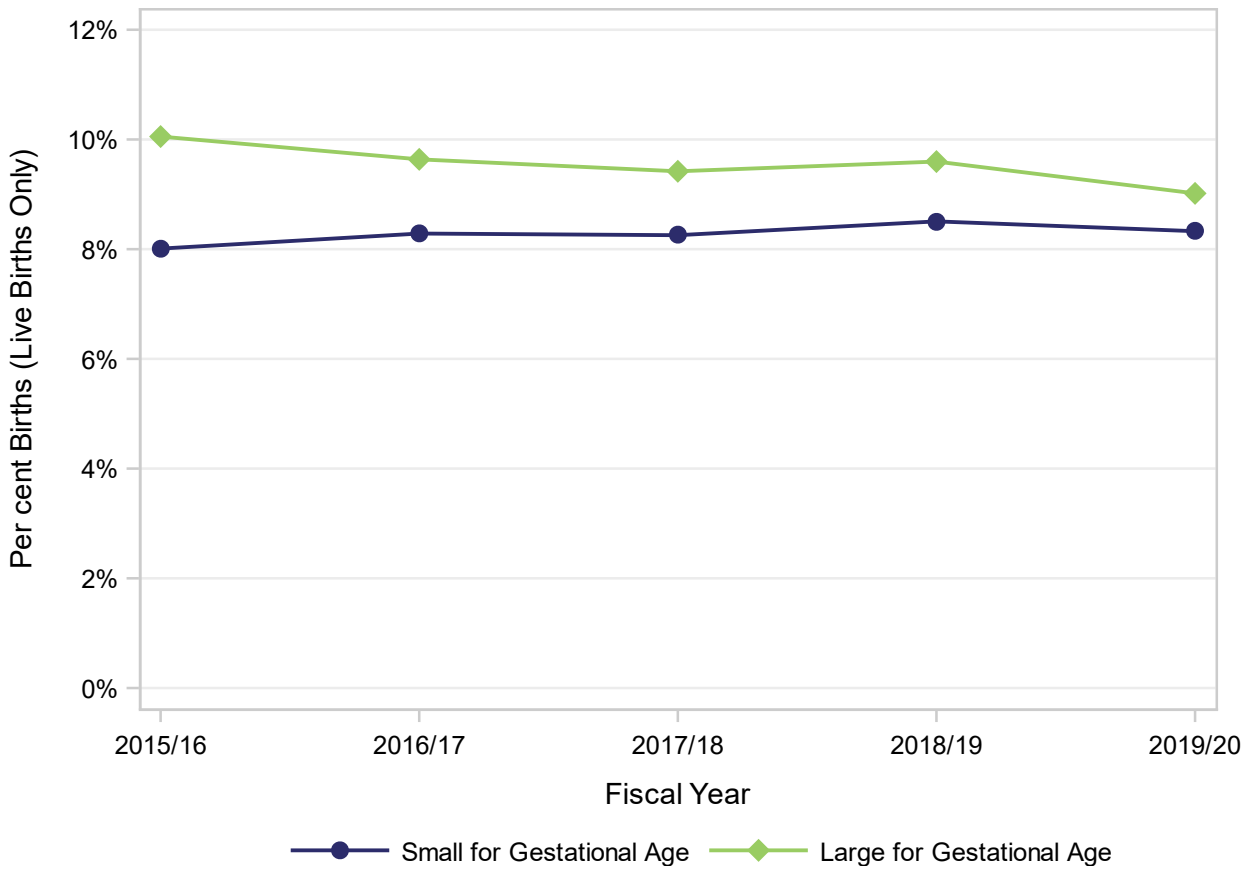


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Low Birthweight	5.7%	5.4%	5.2%	5.5%	5.7%

Definitions and specifications begin on Page 81 of this document.

Weight for Gestational Age

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

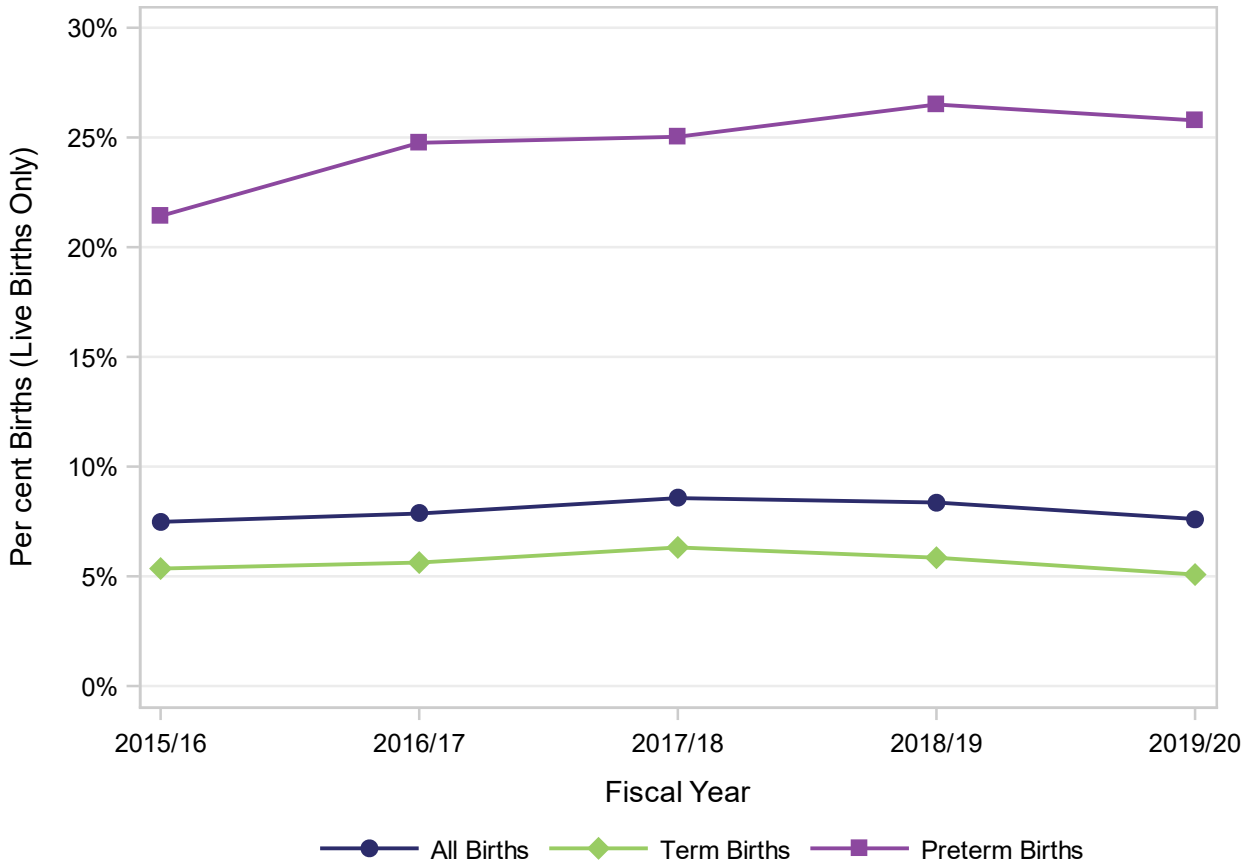


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Small for Gestational Age	8.0%	8.3%	8.3%	8.5%	8.3%
Large for Gestational Age	10.1%	9.6%	9.4%	9.6%	9.0%

Definitions and specifications begin on Page 81 of this document.

Newborn Resuscitation by Gestational Age

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

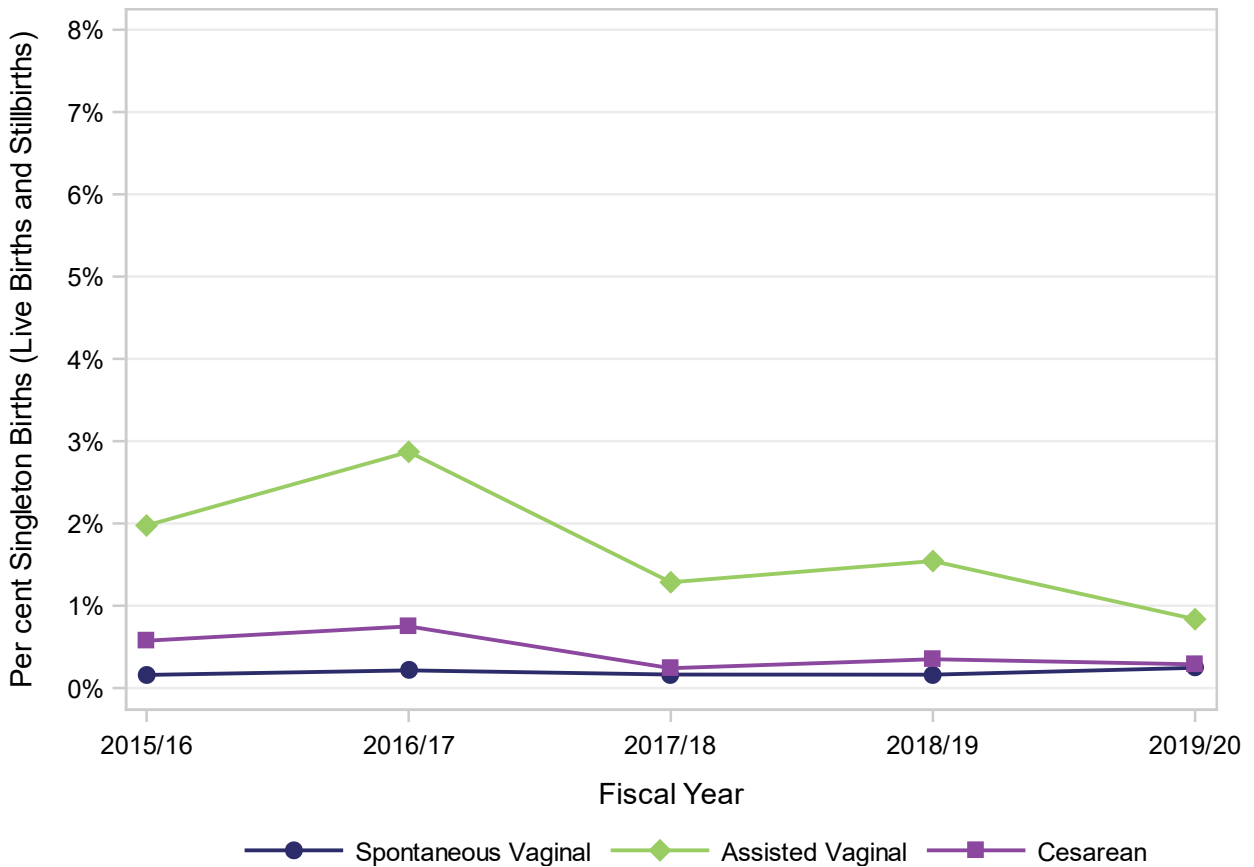


Gestational Age	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
All Births	7.4%	7.7%	8.3%	8.3%	7.4%
Term Births	5.3%	5.6%	6.3%	5.8%	5.0%
Preterm Births	21.4%	24.3%	23.5%	26.4%	25.5%

Definitions and specifications begin on Page 81 of this document.

Birth Injury by Mode of Delivery

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

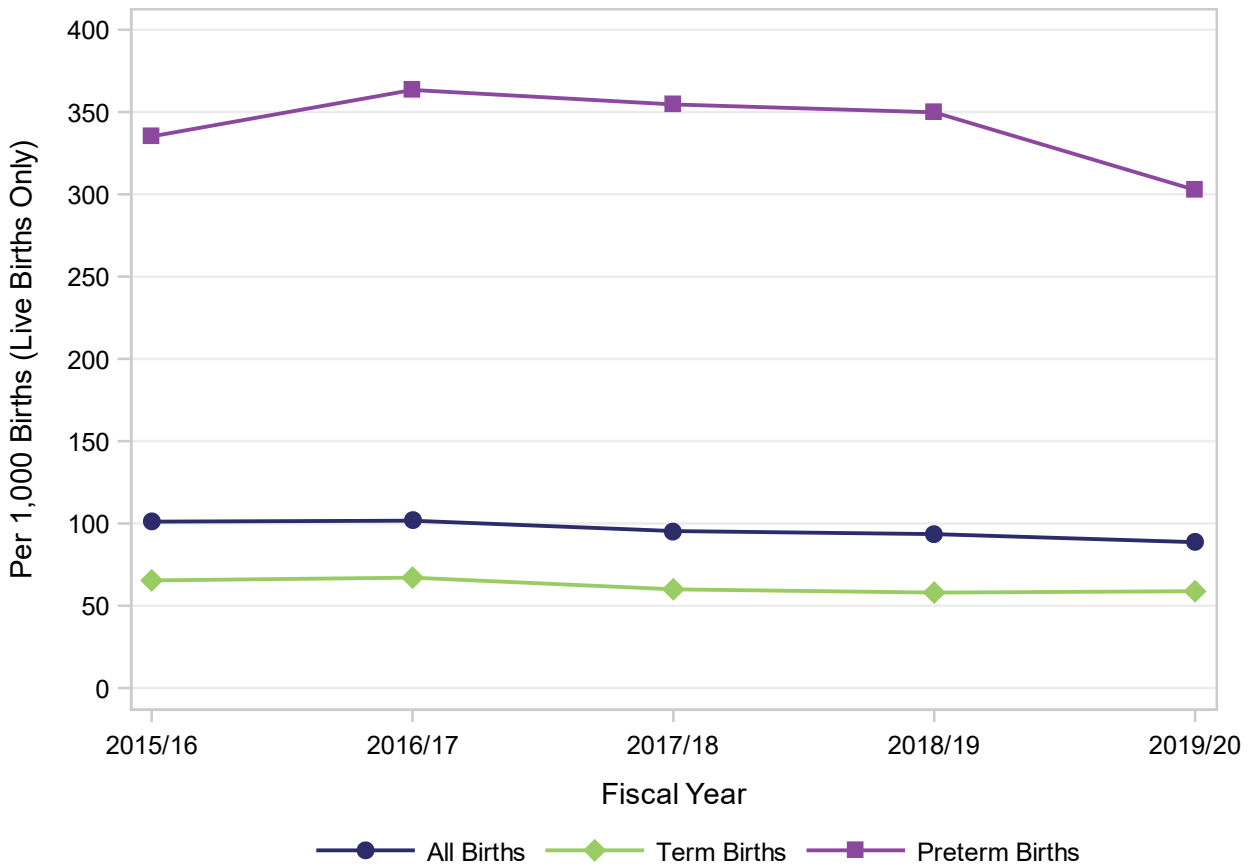


Mode of Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	0.2%	0.2%	0.2%	0.2%	0.2%
Assisted Vaginal	2.0%	2.9%	1.3%	1.5%	0.8%
Cesarean	0.6%	0.7%	0.2%	0.4%	0.3%

Definitions and specifications begin on Page 81 of this document.

Neonatal Morbidity by Gestational Age

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

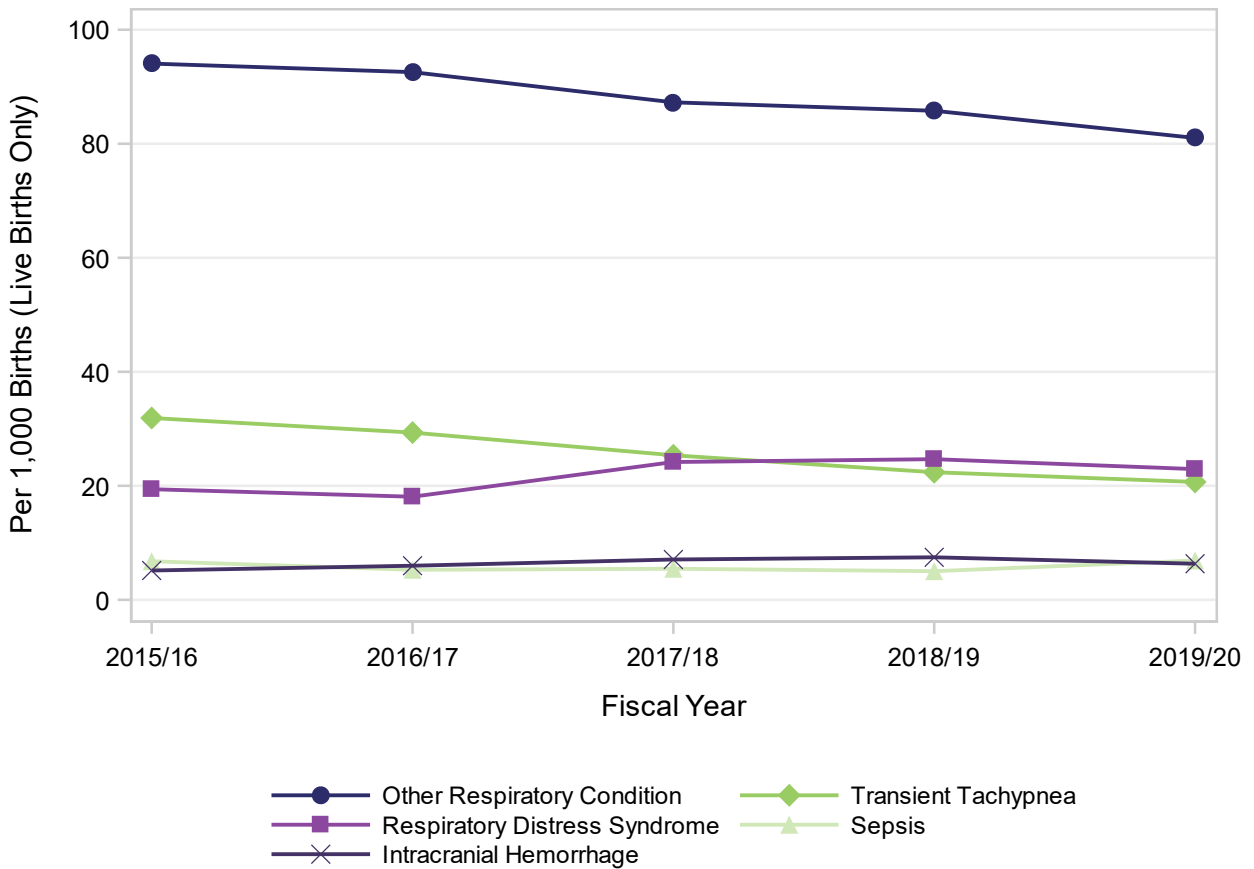


Gestational Age	Fiscal Year				
	2015/16 per 1,000	2016/17 per 1,000	2017/18 per 1,000	2018/19 per 1,000	2019/20 per 1,000
All Births	101.1	101.7	95.4	93.5	88.6
Term Births	65.4	67.1	60.0	58.0	58.8
Preterm Births	335.2	363.4	354.6	349.8	302.6

Definitions and specifications begin on Page 81 of this document.

Type of Neonatal Morbidity

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

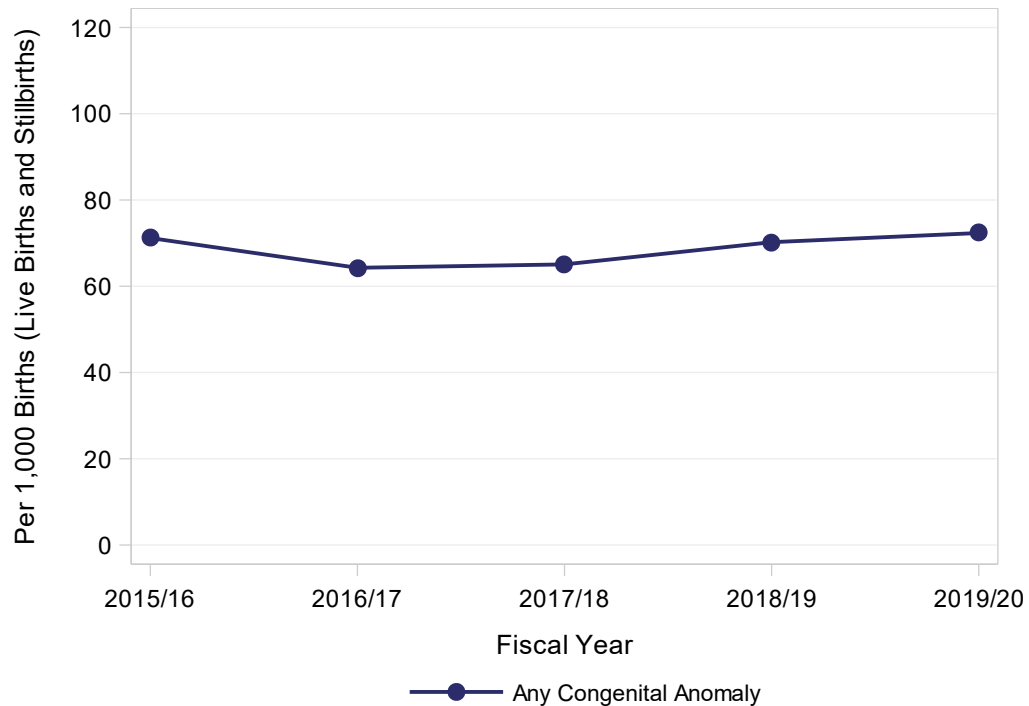


Type of Morbidity	Fiscal Year				
	2015/16 per 1,000	2016/17 per 1,000	2017/18 per 1,000	2018/19 per 1,000	2019/20 per 1,000
Other Respiratory Condition	94.1	92.6	87.3	85.8	81.0
Transient Tachypnea	31.9	29.3	25.4	22.4	20.7
Respiratory Distress Syndrome	19.4	18.1	24.2	24.7	22.9
Sepsis	6.8	5.3	5.5	5.0	6.9
Intracranial Hemorrhage	5.1	6.0	7.1	7.5	6.3

Definitions and specifications begin on Page 81 of this document.

Congenital Anomalies

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



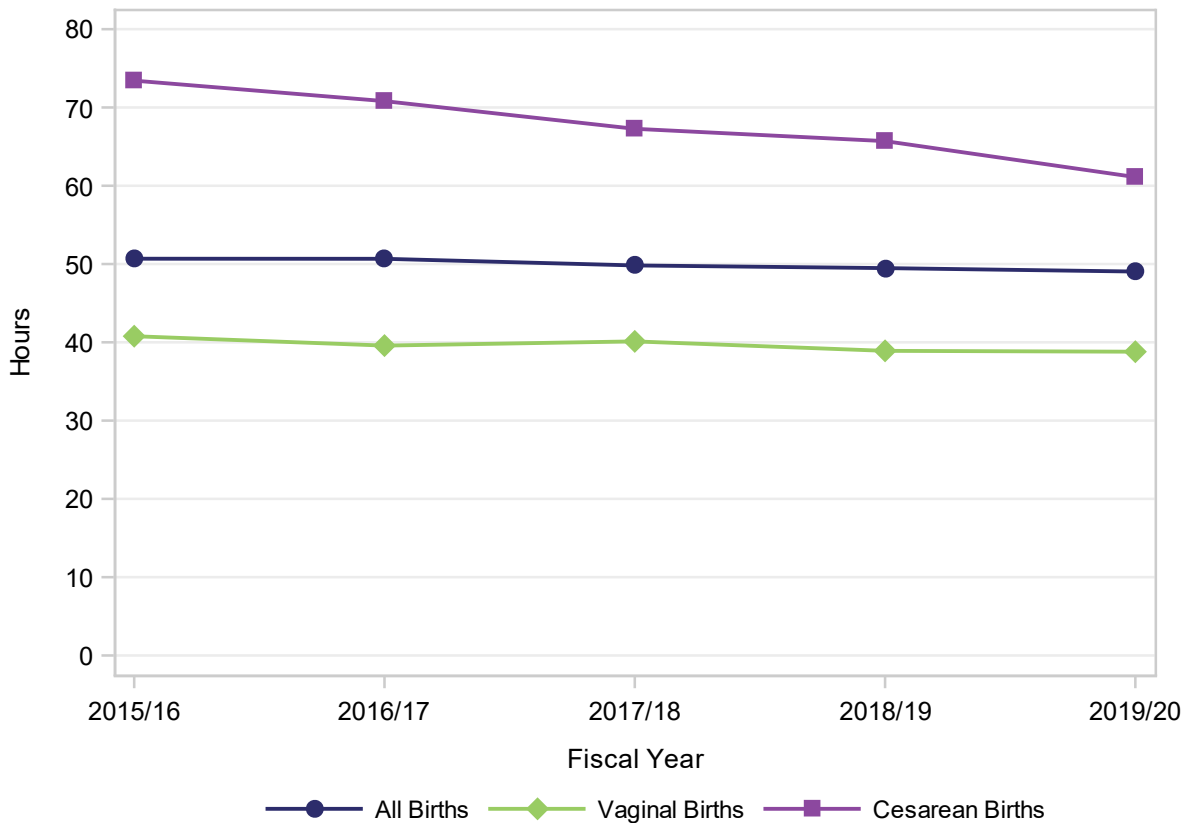
Specific Congenital Anomalies Per 1,000 Live Births and Stillbirths

Type of Congenital Anomaly	Fiscal Year				
	2015/16 per 1,000	2016/17 per 1,000	2017/18 per 1,000	2018/19 per 1,000	2019/20 per 1,000
Chromosomal	3.5	3.7	4.2	3.3	3.2
Circulatory System	24.9	18.1	22.7	21.5	24.4
Cleft Lip or Palate	1.9	3.2	0.9	1.9	2.4
Digestive System	9.5	9.0	8.2	8.3	9.1
Eye, Ear, Face, or Neck	3.6	4.2	2.8	5.4	4.1
Genital Organs	8.0	5.8	6.3	6.0	10.1
Musculoskeletal System	19.7	16.5	19.3	19.1	17.3
Nervous System	3.6	3.0	2.2	4.9	4.2
Respiratory System	3.3	3.4	2.6	2.9	3.8
Urinary System	7.3	8.9	6.4	10.0	8.7
Other Specific Anomaly	4.9	5.9	4.4	7.7	8.8

Definitions and specifications begin on Page 81 of this document.

Median Length of Stay (Hours) for the Birth Episode of Care Live Births by Mode of Delivery

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

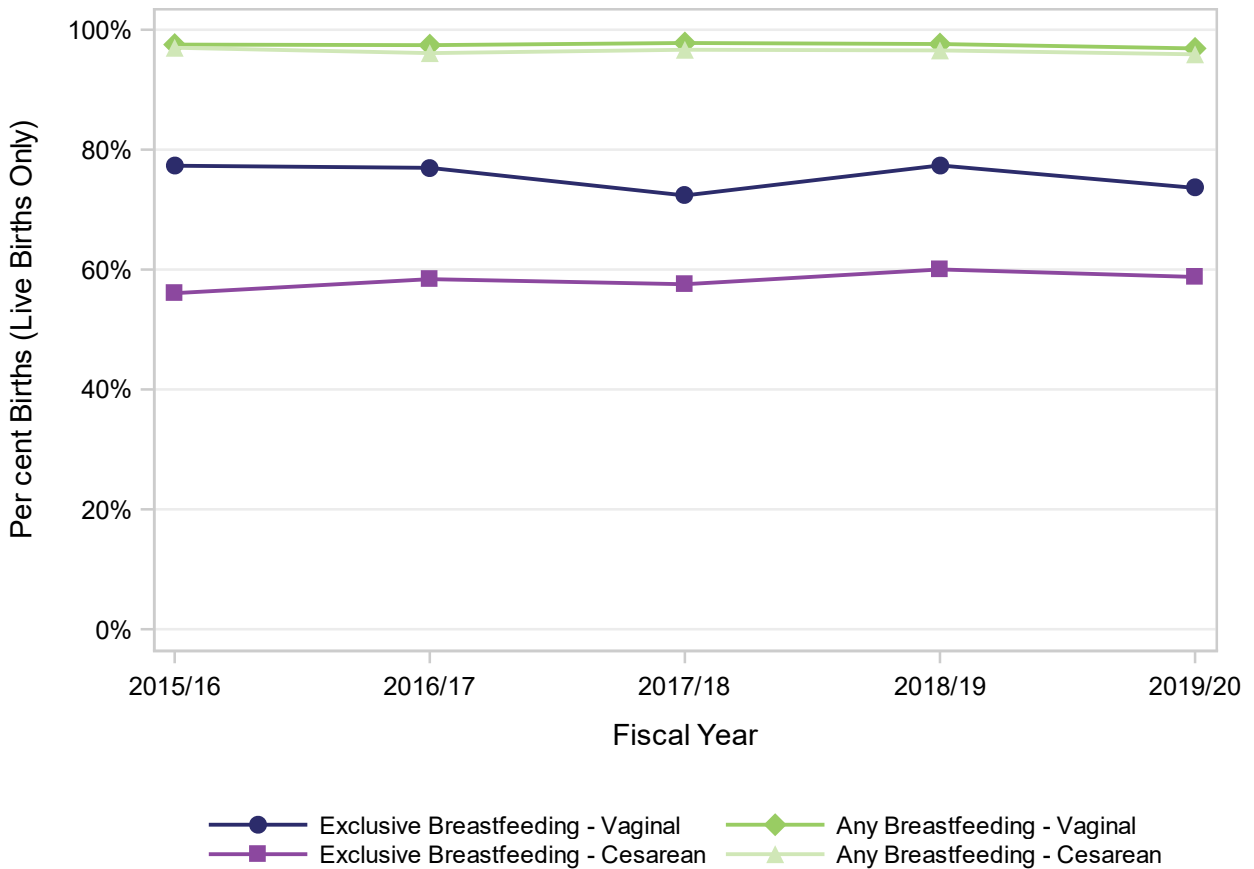


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
All Births	50.7	50.7	49.8	49.5	49.0
Vaginal Births	40.8	39.6	40.1	38.9	38.8
Cesarean Births	73.4	70.8	67.3	65.7	61.1

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 81 of this document.

Breastfeeding During the Birth Admission by Mode of Delivery

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

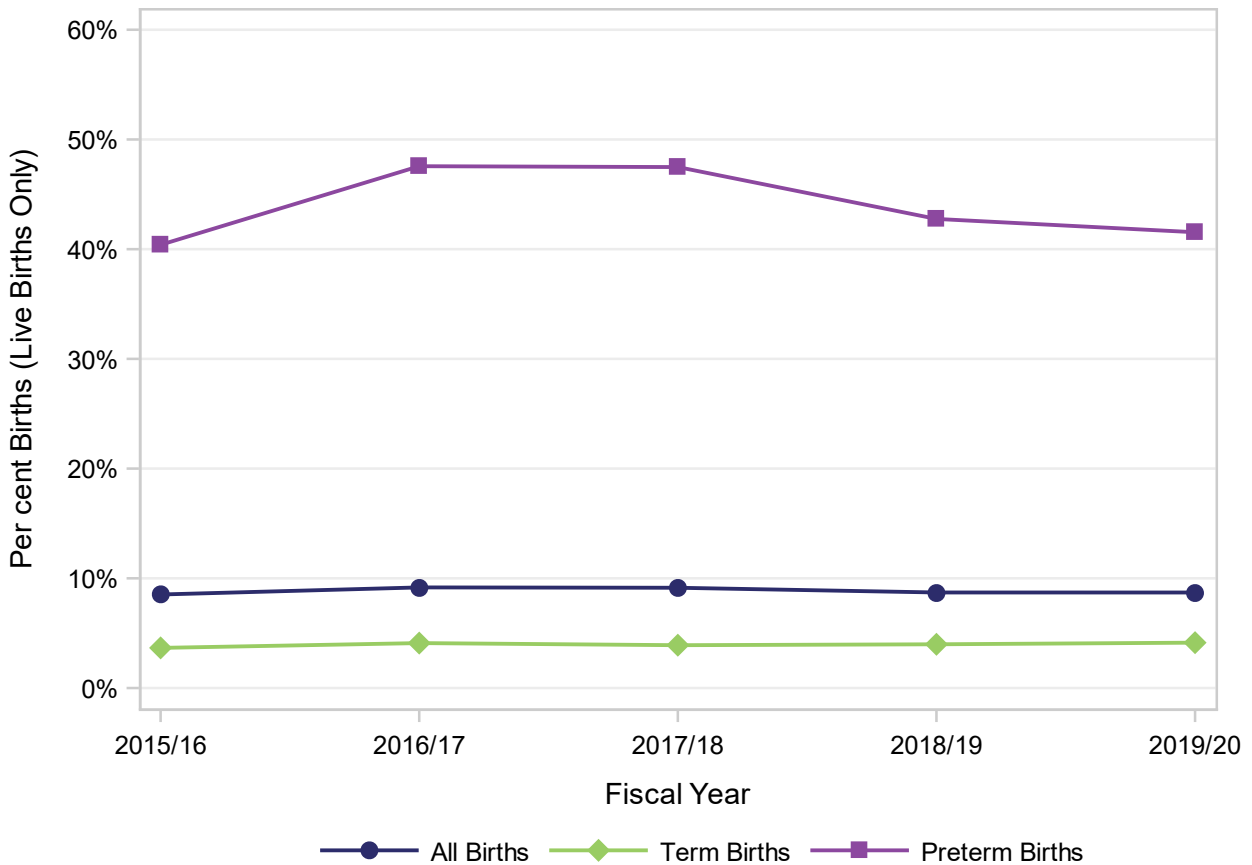


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Exclusive Breastfeeding - Vaginal	77.3%	77.0%	72.4%	77.4%	73.6%
Any Breastfeeding - Vaginal	97.5%	97.4%	97.8%	97.6%	96.9%
Exclusive Breastfeeding - Cesarean	56.1%	58.4%	57.5%	60.0%	58.8%
Any Breastfeeding - Cesarean	97.0%	96.1%	96.7%	96.5%	95.9%

Definitions and specifications begin on Page 81 of this document.

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

Births in Provincial Health Services Authority: 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	31.0	26.0	24.0	26.0	27.0
Term Births	7.5	7.0	8.5	8.5	8.5
Preterm Births	38.0	33.0	28.0	34.0	31.5

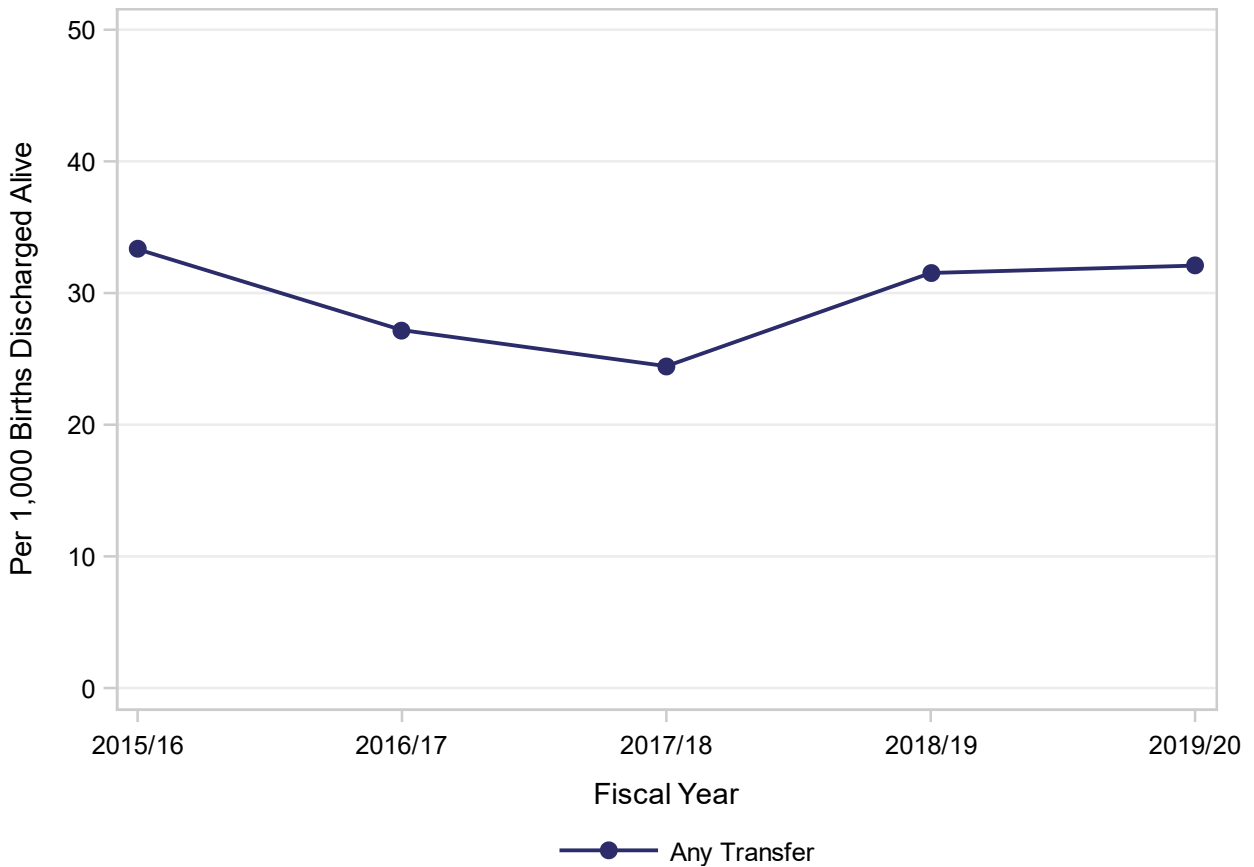
NICU days are assigned based on baby's needs as defined by PSBC Neonatal Daily Classification Tool.

[Click here to access resources on the Neonatal Daily Classification Tool.](#)

Definitions and specifications begin on Page 81 of this document.

Transfer to Another Hospital from the Birth Admission

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

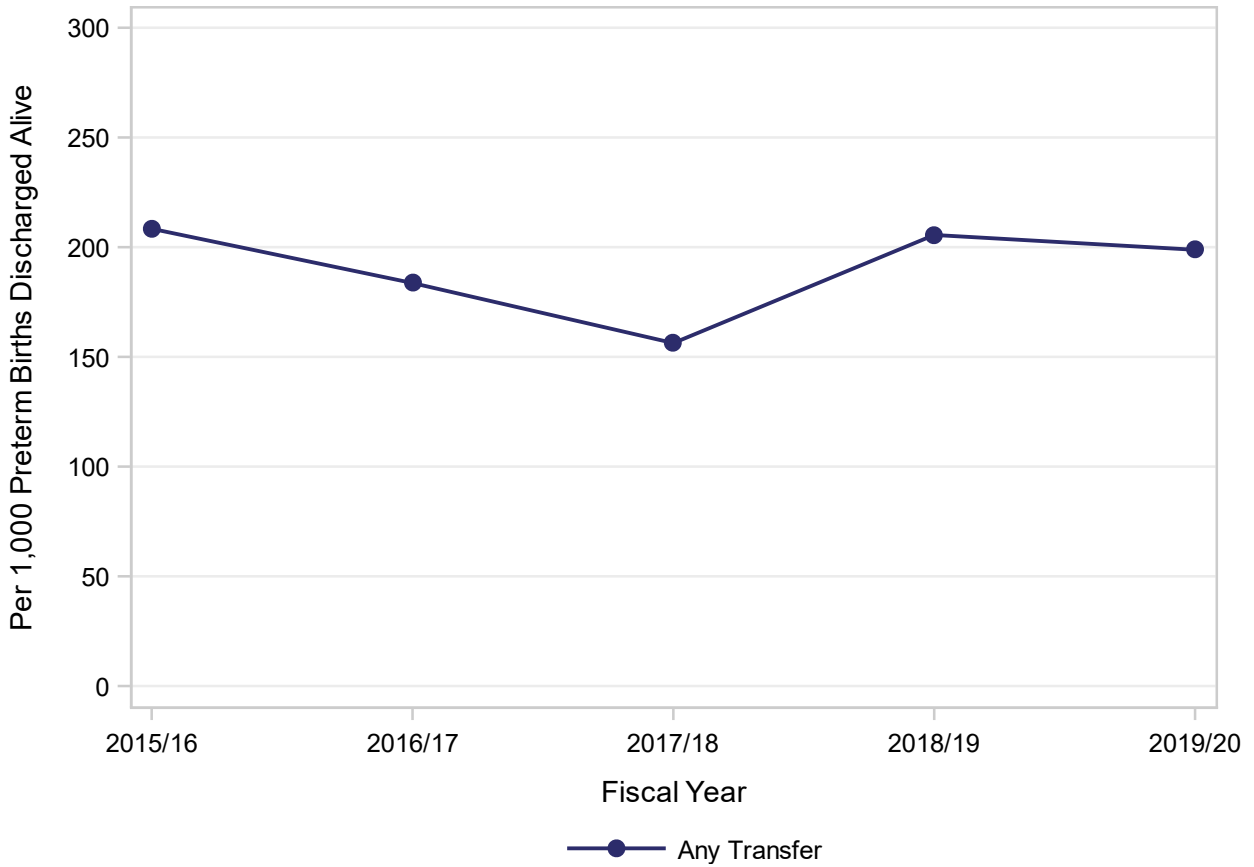


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000
Any Transfer	33.3	27.2	24.4	31.5	32.1

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. Definitions and specifications begin on Page 81 of this document.

Transfer to Another Hospital from the Birth Admission Preterm Births

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

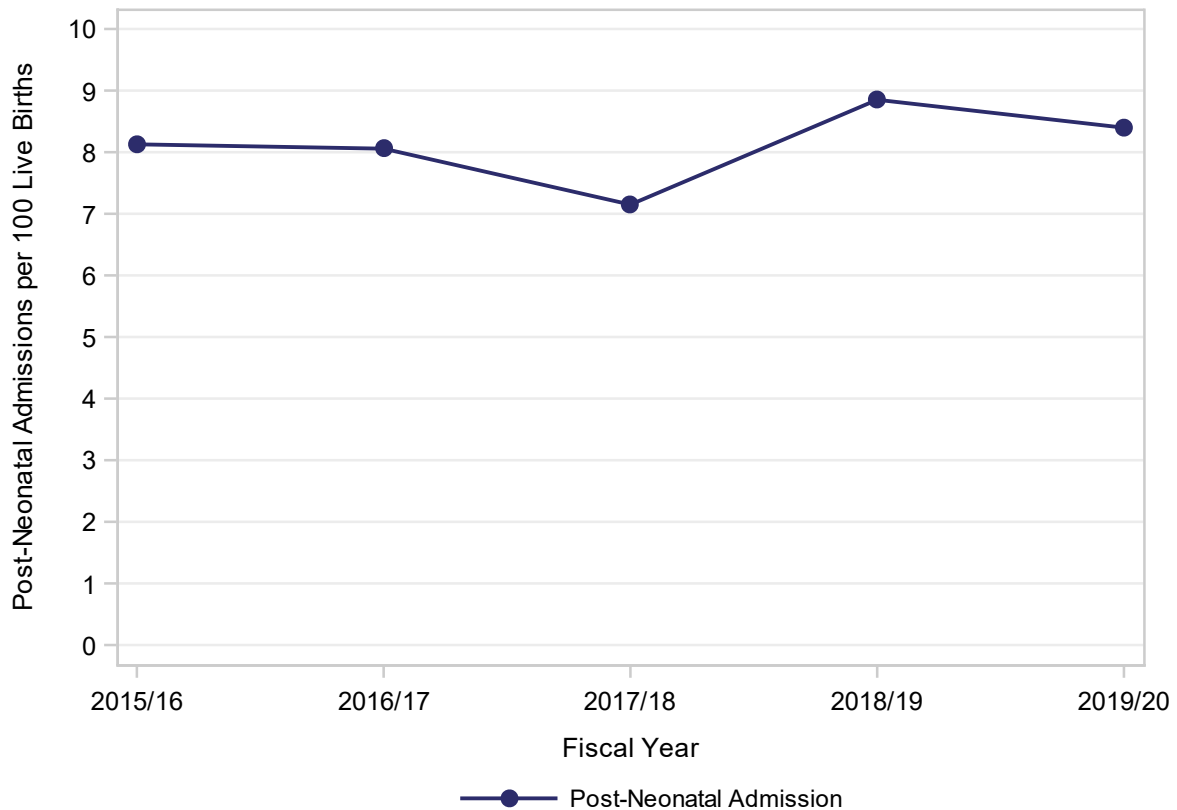


	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000
Any Transfer	208.4	183.6	156.3	205.6	198.8

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. Definitions and specifications begin on Page 81 of this document.

Post-Neonatal Admissions

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



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

Most Responsible Diagnosis	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Jaundice	27.1%	32.2%	36.1%	34.2%	37.5%
Low Birth Weight or Preterm Birth	30.0%	22.4%	20.6%	23.2%	20.8%
Congenital Anomalies	9.0%	11.0%	10.3%	10.7%	12.6%
Feeding Problems	6.5%	4.2%	4.5%	5.8%	3.7%
Other Infections	3.3%	3.0%	4.1%	2.9%	3.4%
Respiratory Infections	3.8%	6.2%	5.6%	3.6%	3.0%
Isoimmunization	2.7%	2.1%	2.3%	2.9%	2.0%
Apnea	1.4%	1.1%	3.3%	2.4%	1.8%
Urinary Tract Infections	1.6%	1.6%	1.9%	1.3%	1.7%
Respiratory Distress	NR	1.4%	NR	0.8%	0.8%

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 81 of this document.

In-Hospital Perinatal Mortality

Births in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

In-Hospital Perinatal Mortality	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
Crude Stillbirth Rate = Total Stillbirths / (Live Births + Stillbirths)	49.2	46.0	48.4	44.2	49.2
Stillbirth Rate = Stillbirths >=500g / (Live Births + Stillbirths >=500g)	5.3	3.1	2.5	1.4	2.9
Early Neonatal Mortality Rate = Early Neonatal Deaths / Live Births	2.8	4.0	3.1	3.4	3.9
Perinatal Mortality Rate = Perinatal Deaths / (Live Births + Stillbirths >=500g)	8.0	7.1	5.6	4.9	6.9
Late Neonatal Mortality Rate = Late Neonatal Deaths / Live Births	NR	1.0	1.3	NR	0.8
Total Neonatal Mortality Rate = Total Neonatal Deaths / Live Births	3.2	5.0	4.4	3.9	4.8
Post-Neonatal Mortality Rate = Post-Neonatal Deaths / Live Births	0.7	NR	0.9	NR	NR
Infant Mortality Rate = Infant Deaths / Live Births	4.0	5.4	5.3	4.0	5.2

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.

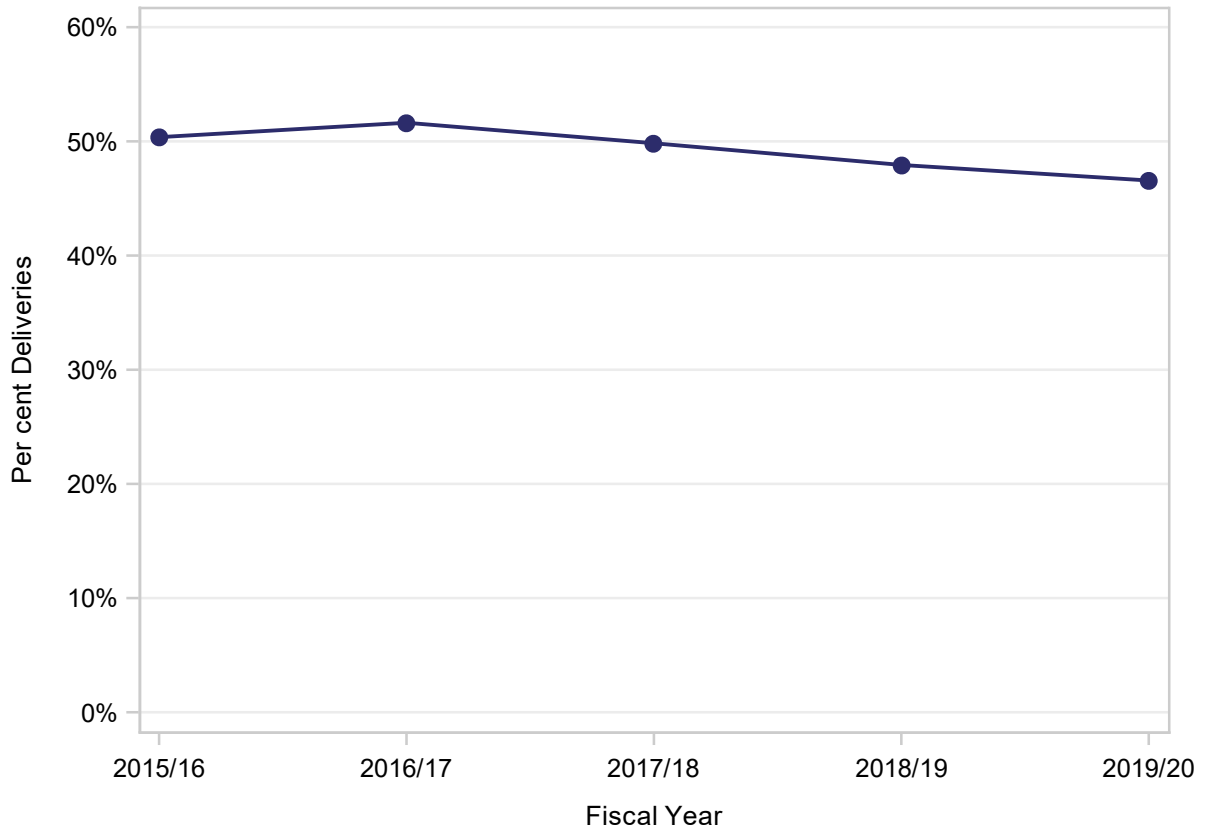
NR: Rates and per cents based on numerators of 1 to 4 are not reported.
Definitions and specifications begin on Page 81 of this document.

Perinatal Health Report 2015/16 to 2019/20
Provincial Health Services Authority

Section 4: 'Normal Labour'

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



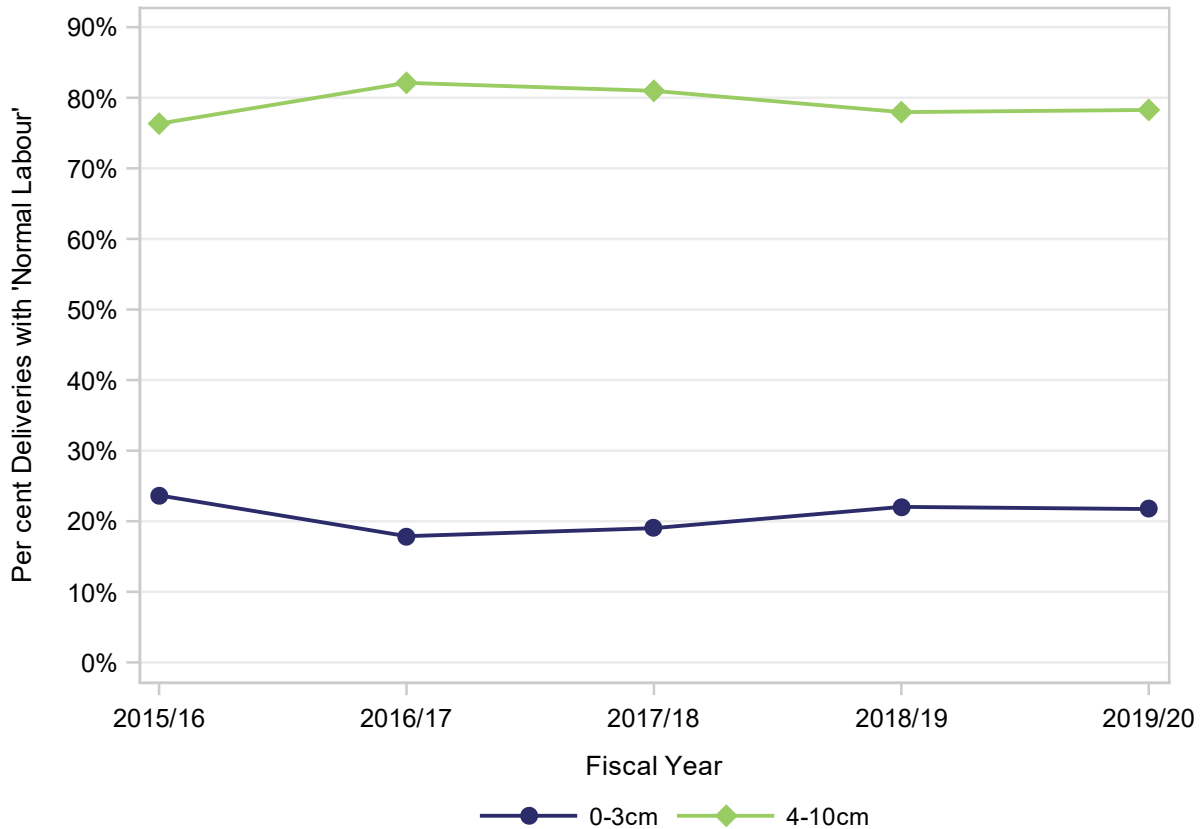
Health Authority	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Provincial Health Services Authority	50.4%	51.6%	49.8%	47.9%	46.6%

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 \pm ½ gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 81 of this document.

Cervical Dilation at Admission Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



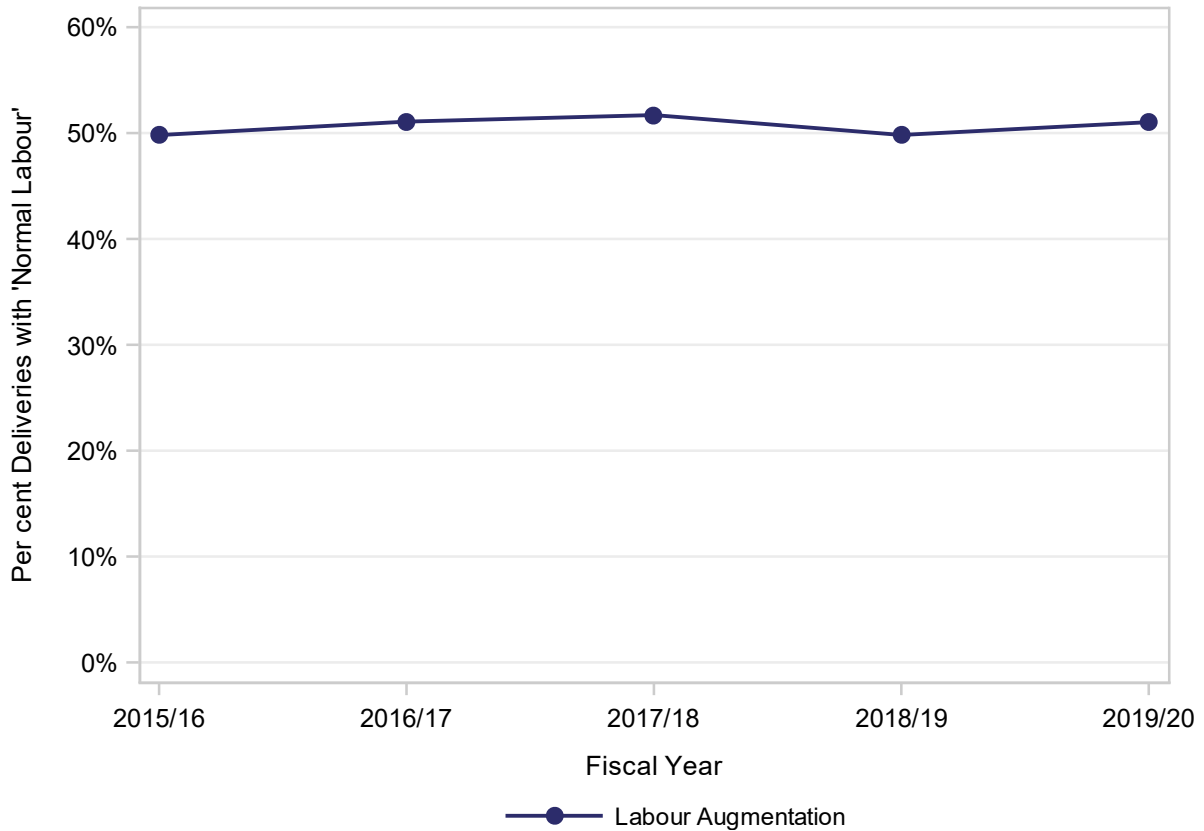
Cervical Dilation at Admission	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
0-3cm	23.7%	17.9%	19.0%	22.0%	21.7%
4-10cm	76.3%	82.1%	81.0%	78.0%	78.3%
Missing	25.2%	20.6%	31.3%	23.1%	20.6%

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 \pm ½ 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 81 of this document.

Labour Augmentation Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Labour Augmentation by Mode of Delivery Deliveries with 'Normal Labour'

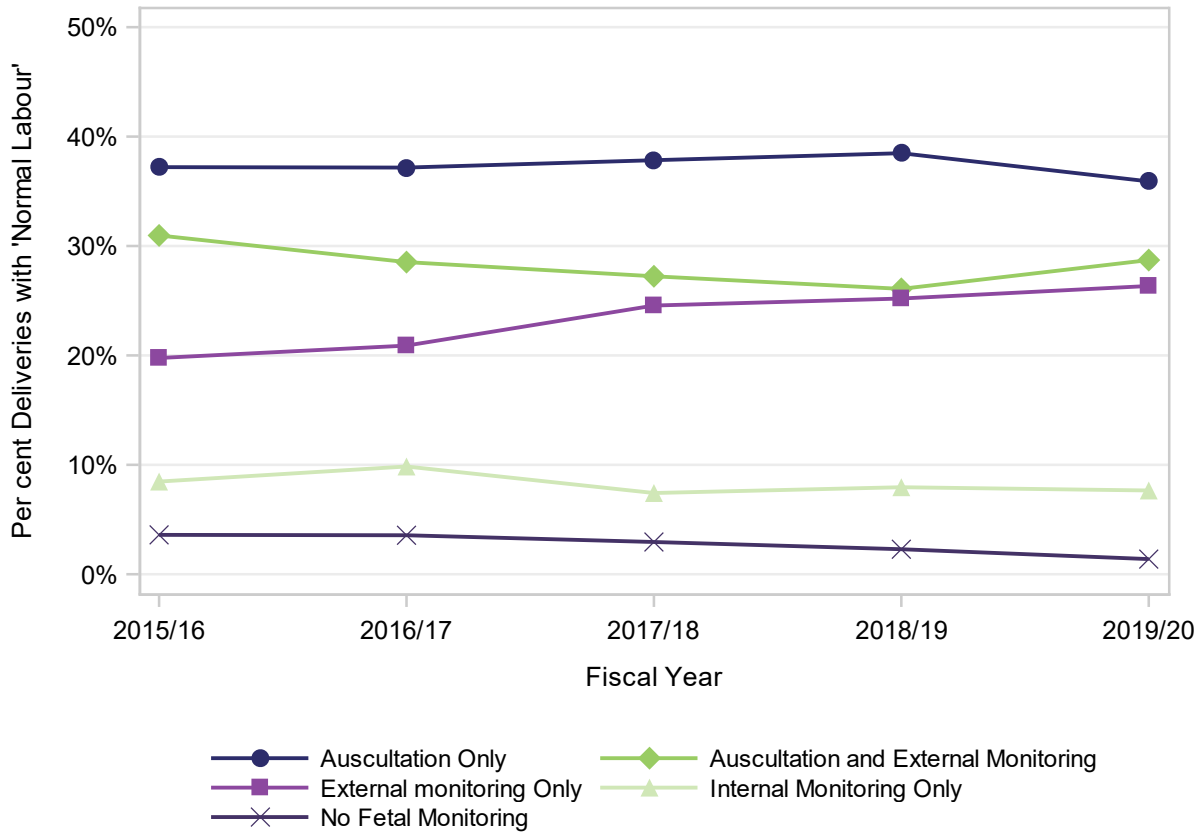
Mode of Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	43.5%	44.4%	45.4%	44.2%	45.1%
Assisted Vaginal	67.0%	68.3%	66.2%	63.0%	65.1%
Cesarean	73.8%	72.7%	74.3%	69.9%	71.4%

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 \pm 1/2 gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 81 of this document.

Method of Fetal Surveillance During Labour Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



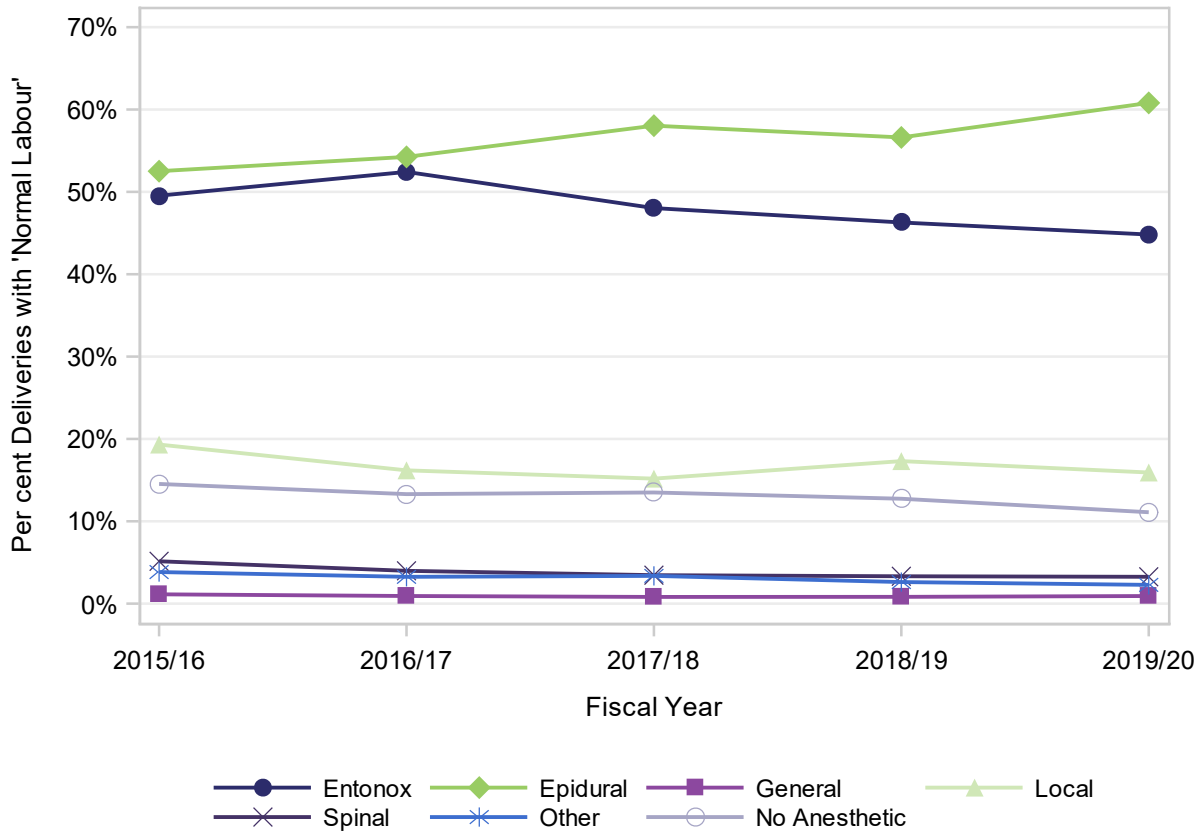
Method of Fetal Surveillance	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Auscultation Only	37.2%	37.2%	37.8%	38.5%	35.9%
Auscultation and External Monitoring	31.0%	28.5%	27.2%	26.1%	28.7%
External Monitoring Only	19.8%	20.9%	24.6%	25.2%	26.3%
Internal Monitoring Only	8.5%	9.8%	7.4%	8.0%	7.7%
No Fetal Monitoring	3.6%	3.6%	2.9%	2.3%	1.4%

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 \pm ½ gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 81 of this document.

Anesthesia and Analgesia During Labour and Delivery Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Anesthesia or Analgesia	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Entonox	49.5%	52.4%	48.0%	46.3%	44.8%
Epidural	52.5%	54.2%	58.0%	56.6%	60.8%
General	1.1%	0.9%	0.8%	0.8%	0.9%
Local	19.3%	16.2%	15.2%	17.3%	15.9%
Spinal	5.1%	4.0%	3.5%	3.3%	3.3%
Combined Spinal and Epidural	-	-	-	NR	NR
Other	3.8%	3.3%	3.4%	2.6%	2.3%
No Anesthetic	14.5%	13.3%	13.5%	12.7%	11.1%

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; ½ 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 81 of this document.

Median Length of Labour Stages (Hours) by Mode of Delivery Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020

Mode of Delivery	First Stage (Hours)					Second Stage (Hours)				
	15/16	16/17	17/18	18/19	19/20	15/16	16/17	17/18	18/19	19/20
Spontaneous Vaginal	5.5	5.4	5.6	5.5	5.6	0.6	0.5	0.7	0.6	0.6
Assisted Vaginal	9.3	9.5	9.5	8.8	9.0	2.7	2.7	2.6	2.6	2.5
Cesarean	11.4	10.8	12.0	10.7	9.8	4.4	4.0	4.4	4.1	4.1

Mode of Delivery	Antepartum LOS (Hours)					Postpartum LOS (Hours)					Total LOS (Hours)				
	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	4.7	4.6	5.3	4.9	5.3	35.9	34.5	34.8	34.9	34.4	40.9	39.8	40.6	40.5	40.3
Assisted Vaginal	10.0	10.4	11.1	10.5	10.2	49.7	49.7	49.1	48.9	46.9	60.6	60.6	60.7	59.0	59.0
Cesarean	13.2	12.5	13.2	11.9	12.2	71.3	69.1	66.0	64.1	62.4	84.2	81.5	81.3	75.9	75.5

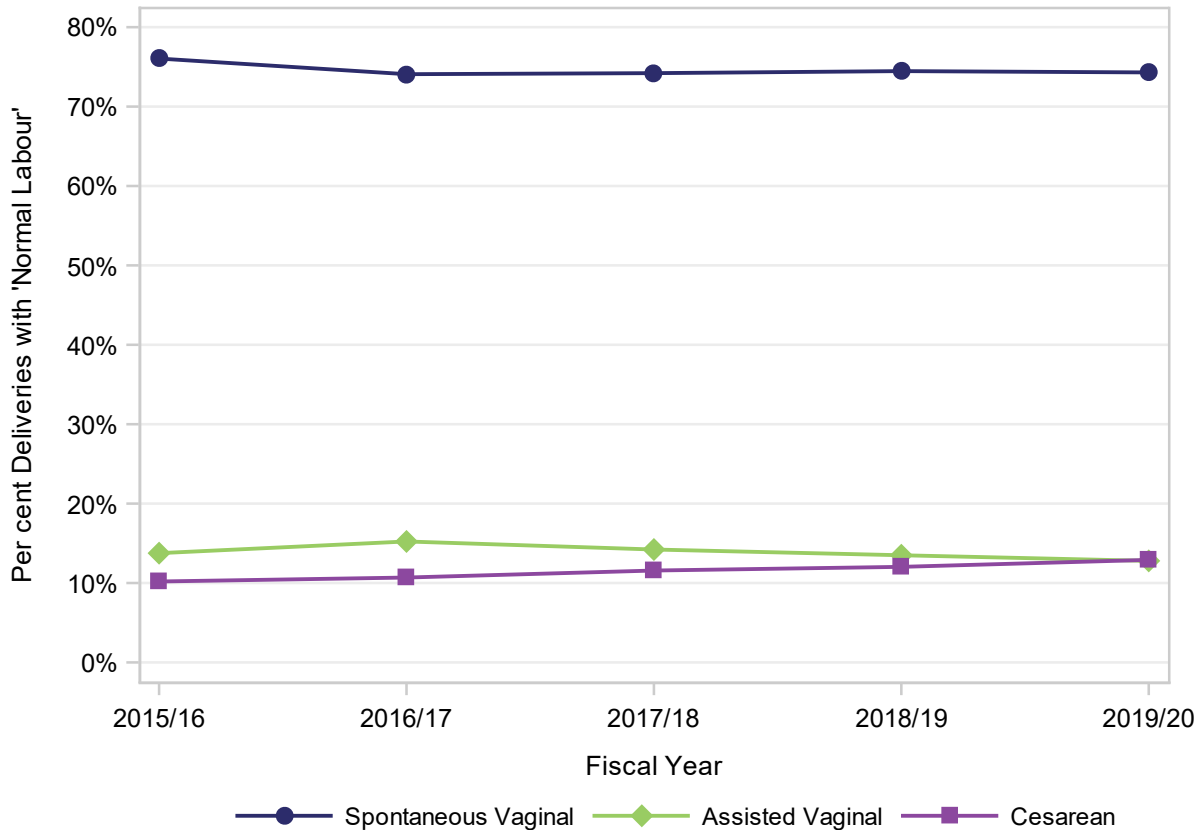
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks gestation after spontaneous onset of labour.

Deliveries outside acute care facilities are excluded.

Definitions and specifications begin on Page 81 of this document.

Mode of Delivery Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



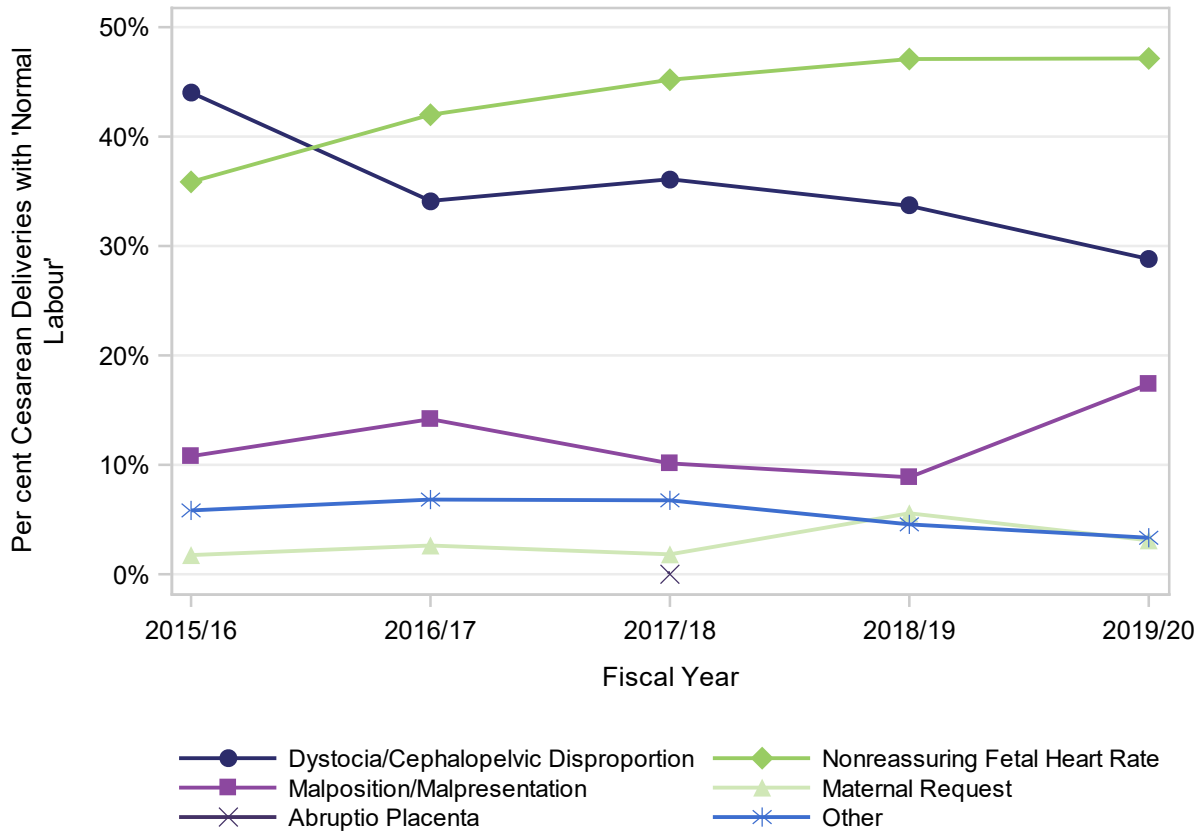
Mode of Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	76.0%	74.1%	74.2%	74.5%	74.3%
Assisted Vaginal	13.8%	15.2%	14.2%	13.5%	12.8%
Cesarean	10.2%	10.7%	11.6%	12.0%	12.9%

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 \pm ½ gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 81 of this document.

Primary Indication for Cesarean Delivery Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Primary Indication for Cesarean Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Dystocia/Cephalopelvic Disproportion	44.0%	34.1%	36.1%	33.7%	28.8%
Nonreassuring Fetal Heart Rate	35.9%	42.0%	45.2%	47.1%	47.1%
Malposition/Malpresentation	10.8%	14.2%	10.1%	8.9%	17.4%
Maternal Request	1.7%	2.6%	1.8%	5.6%	3.1%
Abruptio Placenta	NR	NR	0.0%	NR	NR
Other	5.8%	6.8%	6.8%	4.6%	3.3%

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 \pm ½ gestation after spontaneous onset of labour.

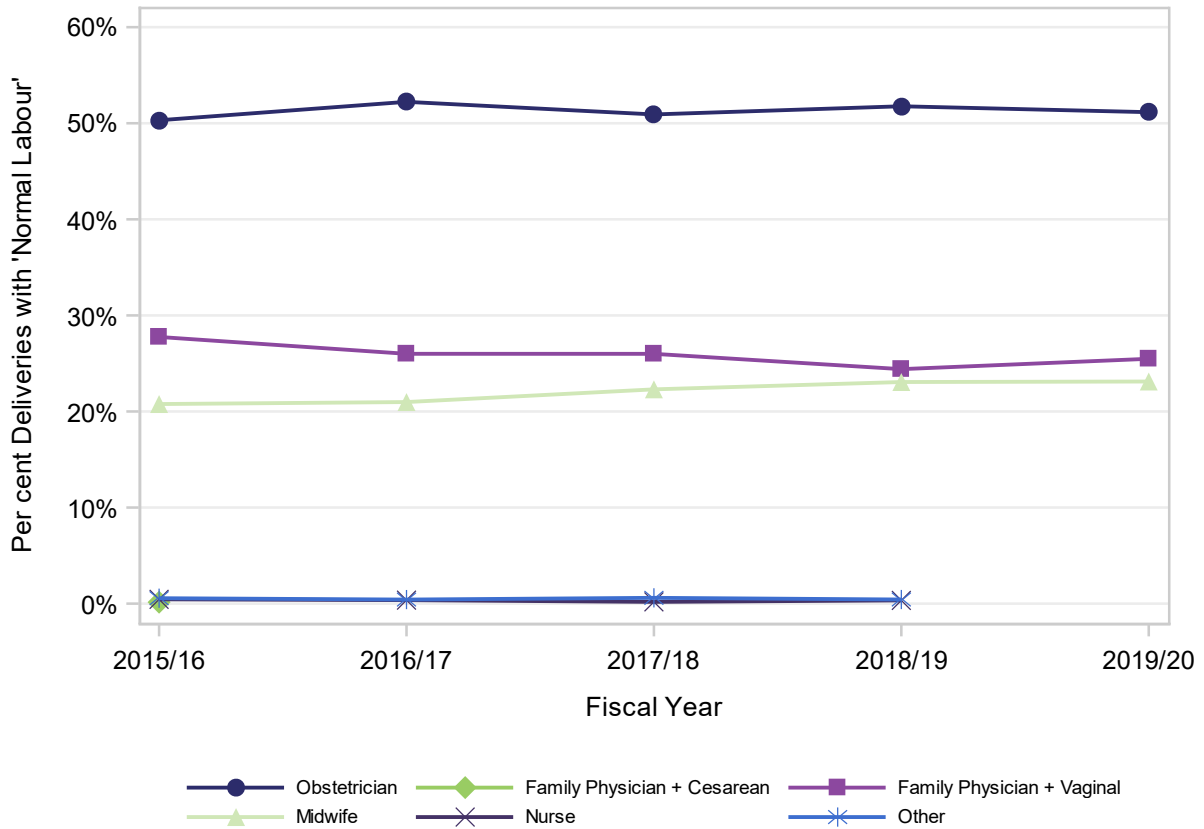
Selected indications are included in the figure; all indications are included in the table.

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

Definitions and specifications begin on Page 81 of this document.

Delivery Provider Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



Delivery Provider	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Obstetrician	50.3%	52.2%	50.9%	51.8%	51.2%
Surgeon	NR	NR	NR	NR	NR
Family Physician + Cesarean	0.1%	NR	NR	NR	NR
Family Physician + Vaginal	27.8%	26.0%	26.0%	24.4%	25.5%
Midwife	20.8%	21.0%	22.3%	23.1%	23.1%
Nurse	0.4%	0.4%	0.2%	0.3%	NR
Other	0.6%	0.4%	0.6%	0.4%	NR

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 \pm ½ gestation after spontaneous onset of labour.

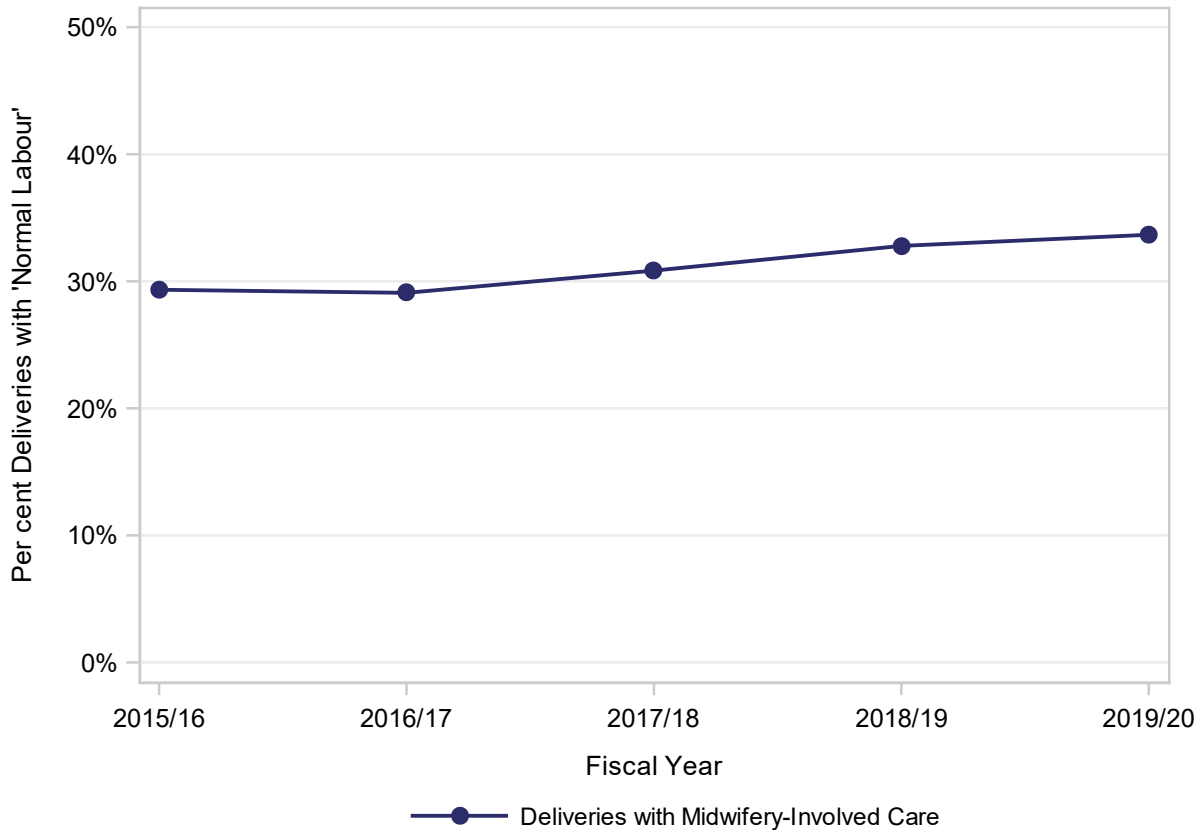
Describes the training level of the provider who delivered the baby. This may not be the same type of health care professional who provided antenatal care.

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

Definitions and specifications begin on Page 81 of this document.

Deliveries with Midwifery-Involved Care Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



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

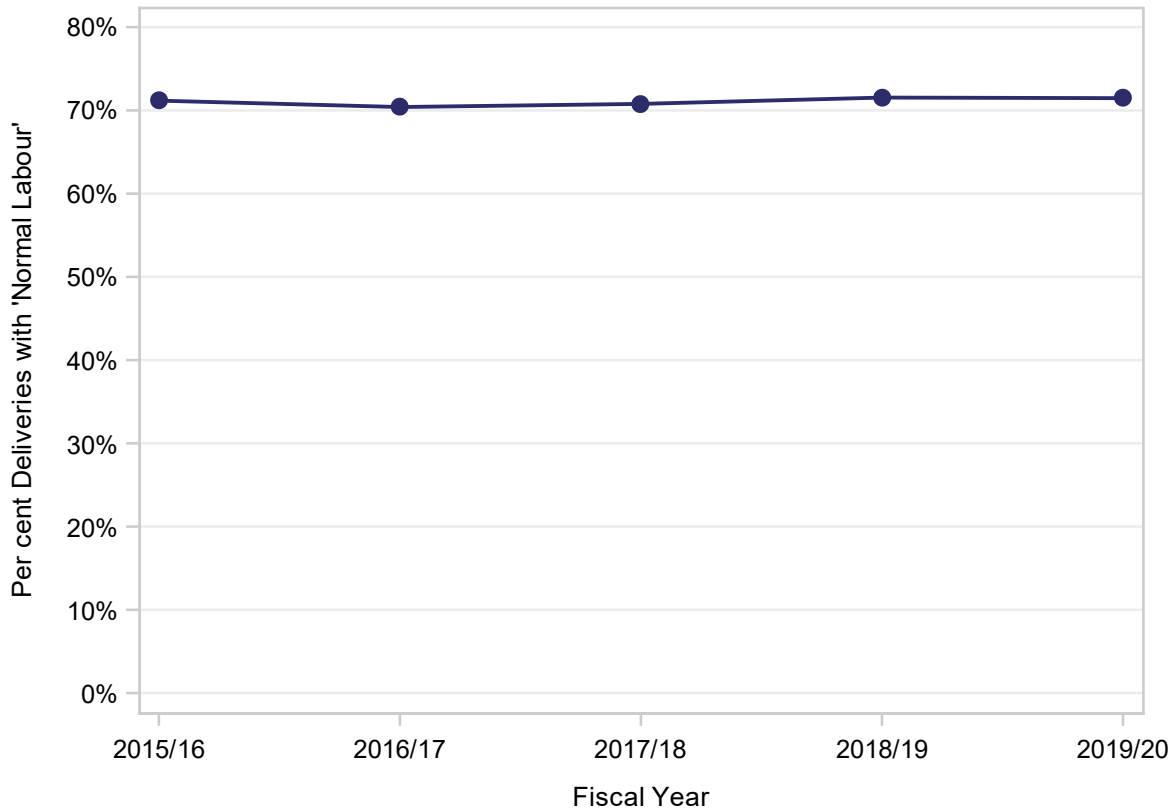
	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	29.4%	29.3%	32.6%	34.2%	34.4%
Assisted Vaginal	25.3%	26.3%	24.3%	29.8%	29.8%
Cesarean	34.1%	31.2%	27.3%	27.3%	33.1%

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 \pm ½ 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. Definitions and specifications begin on Page 81 of this document.

Deliveries with 'Normal Childbirth' Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



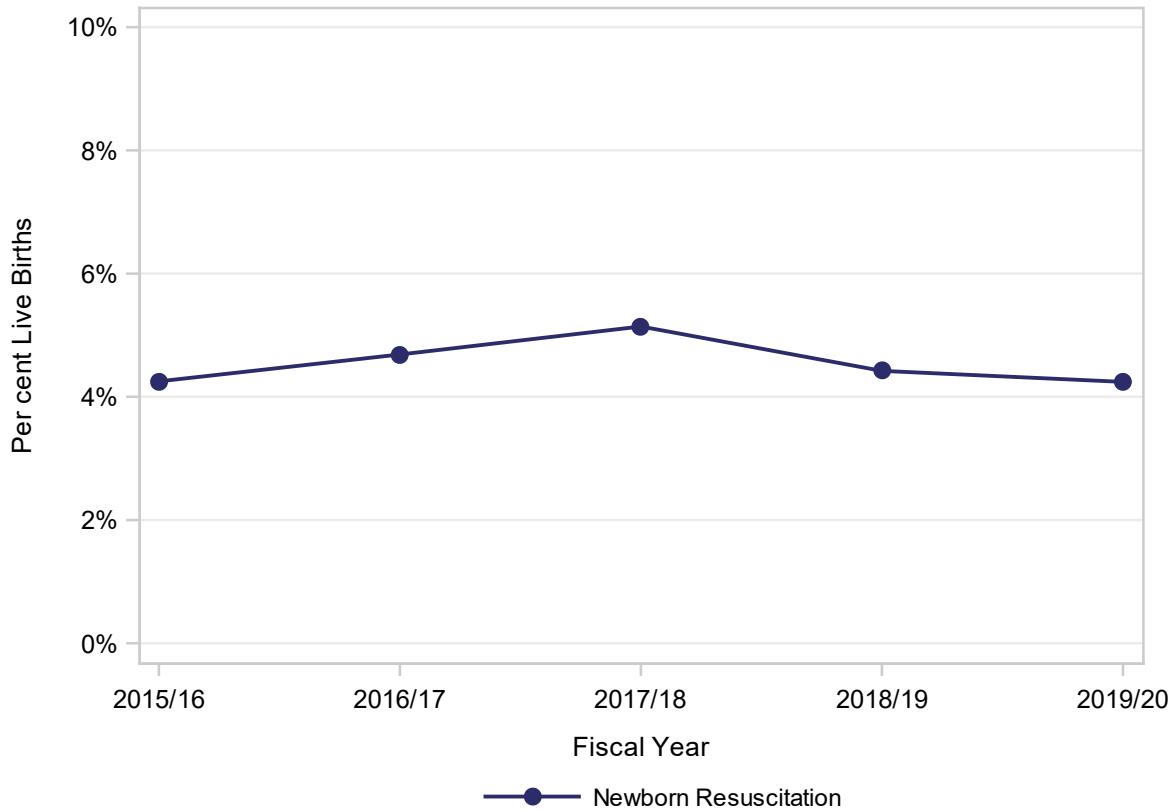
	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
'Normal Childbirth'	71.2%	70.4%	70.8%	71.5%	71.5%

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 \pm ½ 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 81 of this document.

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



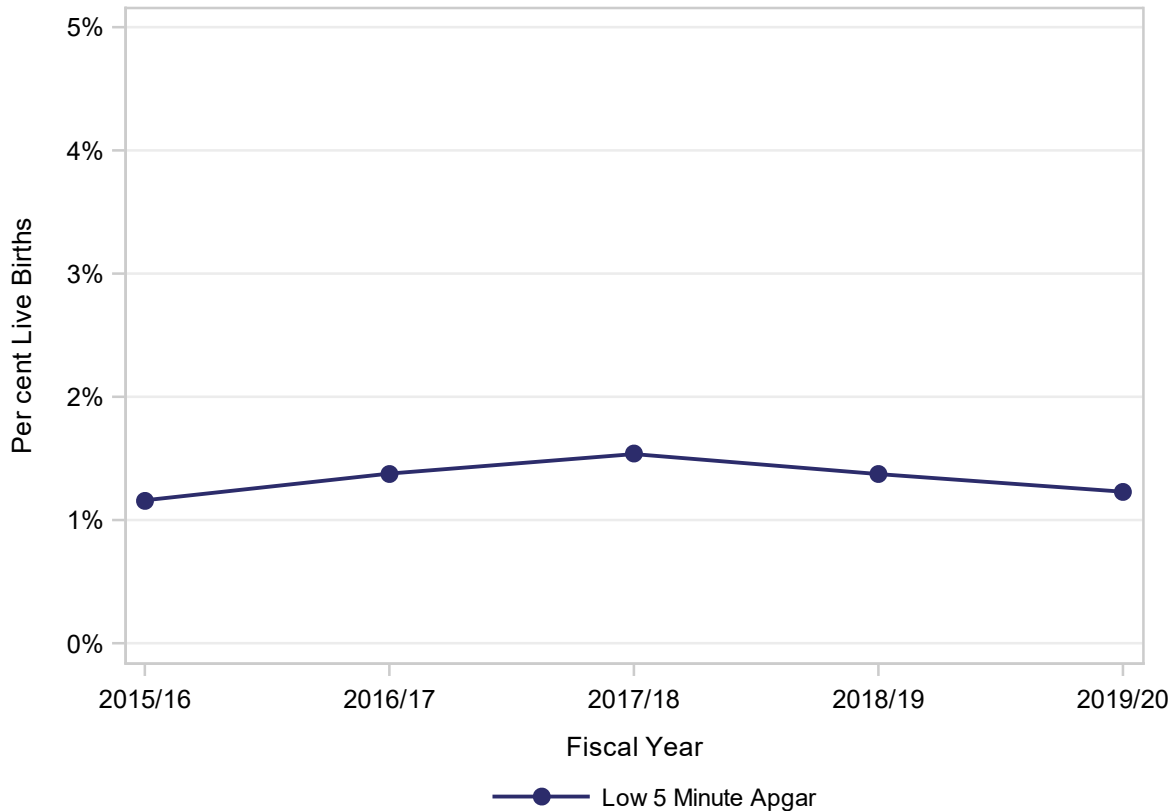
Newborn Resuscitation by Mode of Delivery
Babies Born from Deliveries with 'Normal Labour'

Mode of Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	2.5%	3.0%	3.5%	3.1%	2.8%
Assisted Vaginal	8.6%	9.6%	6.8%	8.8%	7.0%
Cesarean	11.4%	9.4%	13.8%	7.6%	9.8%

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 \pm 1/2 gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 81 of this document.

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



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

Mode of Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	0.6%	0.8%	1.1%	1.2%	0.7%
Assisted Vaginal	2.2%	2.4%	1.7%	2.0%	1.2%
Cesarean	4.1%	4.2%	4.4%	1.5%	4.5%

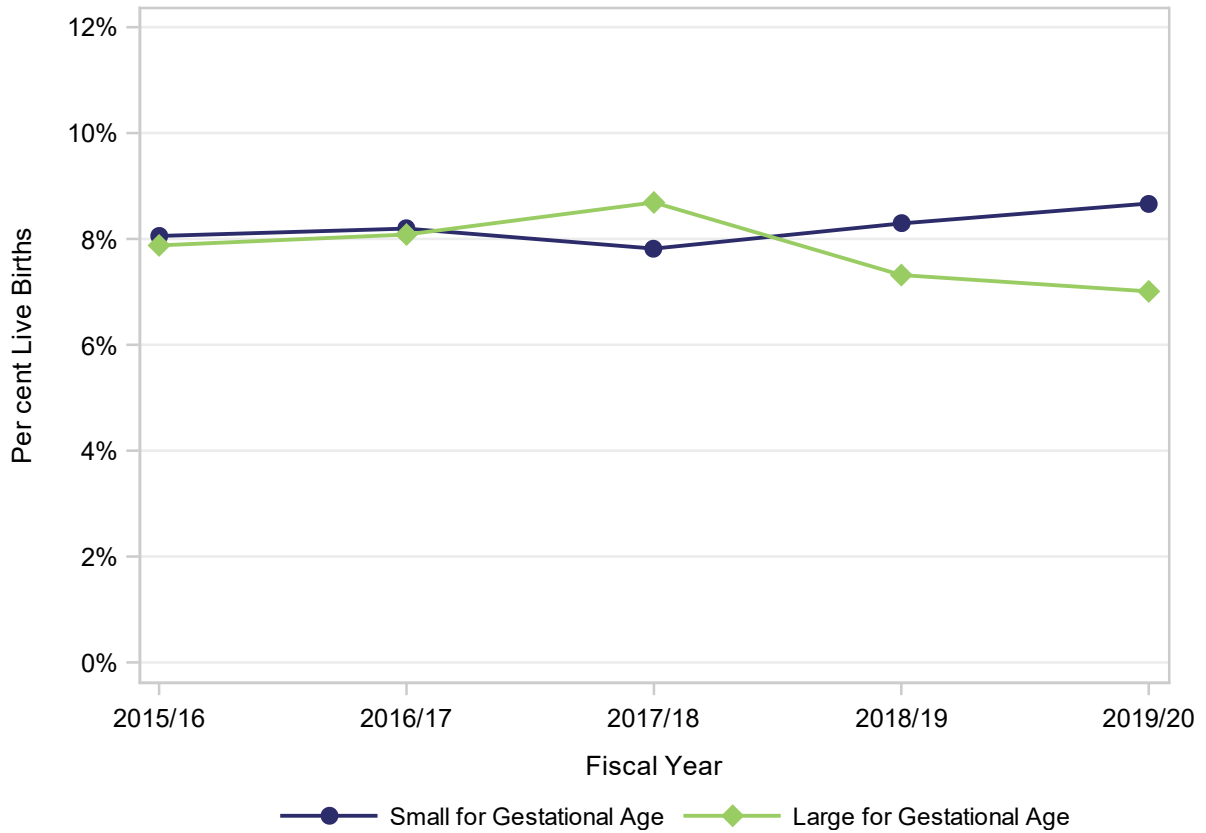
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks \pm ½ gestation after spontaneous onset of labour.
 Low 5 Minute Apgar Score defined as below 7 out of 10 at five minutes after birth.

Definitions and specifications begin on Page 81 of this document.

Weight for Gestational Age

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



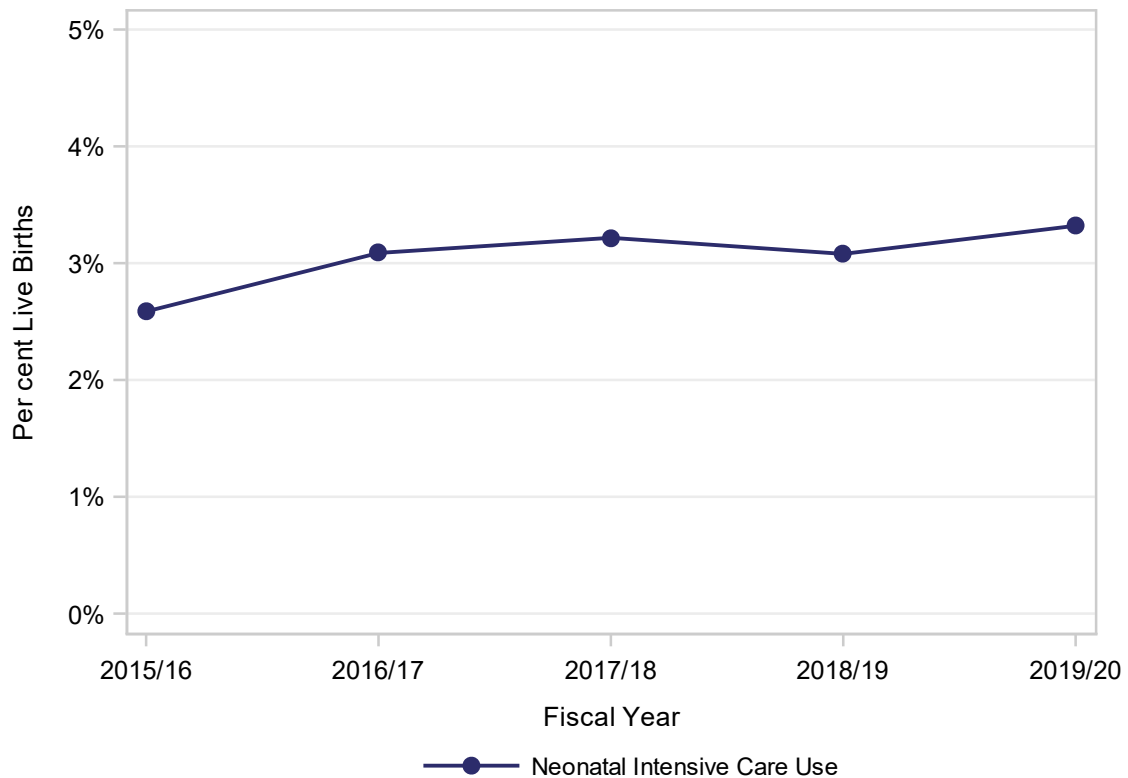
	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Small for Gestational Age	8.1%	8.2%	7.8%	8.3%	8.7%
Large for Gestational Age	7.9%	8.1%	8.7%	7.3%	7.0%

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 \pm 1/2 gestation after spontaneous onset of labour.

Definitions and specifications begin on Page 81 of this document.

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

Deliveries in Provincial Health Services Authority: April 1, 2015 - March 31, 2020



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

Mode of Delivery	Fiscal Year				
	2015/16	2016/17	2017/18	2018/19	2019/20
Spontaneous Vaginal	1.6%	2.2%	2.4%	2.6%	2.3%
Assisted Vaginal	4.5%	4.6%	5.5%	4.8%	5.3%
Cesarean	7.0%	6.8%	5.5%	4.1%	7.1%

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 \pm ½ 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 81 of this document.

Definitions

Section 1: Maternal Health

Deliveries to Residents of Other Health Authorities

- Deliveries to women who reside in a different Health Authority.
 - Deliveries at home with a registered midwife as delivery provider 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 ≥ 500 g. 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.
- Missing – 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.

- $\text{Pre-pregnancy weight (kg)} / (\text{height (in cm)})^2$
- Underweight – BMI < 18.5 .
- Normal Weight – BMI between 18.5 and 24.9.
- Overweight – BMI between 25.0 and 29.9.
- Obese – BMI ≥ 30.0 .
- BMI Missing – 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 [guidelines](#) 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. Eclampsia – mother had eclampsia diagnosed during pregnancy. Mother may have had pre-existing or gestational hypertension.
2. HELLP – mother had HELLP syndrome (Hemolysis, Elevated Liver enzymes, and Low Platelet count) diagnosed during pregnancy.
3. Pre-Existing Hypertension with Pre-Eclampsia – mother had a documented hypertensive disorder before pregnancy and also had pre-eclampsia diagnosed in pregnancy.
4. Pre-Eclampsia – mother had pre-eclampsia diagnosed during pregnancy. Mother may also have had gestational hypertension.

5. Pre-Existing Hypertension – mother had a documented hypertensive disorder before pregnancy. Mother may also have had gestational hypertension.
6. Gestational Hypertension – mother had hypertension diagnosed during pregnancy.
7. Unspecified Hypertension – mother had hypertension diagnosed during pregnancy, but the specific type is not recorded.
8. No Hypertension – no hypertensive conditions were documented by a care provider.

Diabetes Mellitus in Pregnancy

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

Substance Use During Pregnancy

- Cigarette Use – care provider documented mother reports smoking cigarettes at any time during the pregnancy. Includes women who stopped or reduced smoking during pregnancy.
- Alcohol as Risk – care provider documents alcohol as a risk in the pregnancy. Alcohol use prior to the woman knowing she was pregnant is not included.
- Binge Drinking – care provider documents mother consumed ≥ 4 alcoholic drinks at one time during the current pregnancy.
- Other Drug Use – 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

- Hepatitis B Test Done – mother was screened for the Hepatitis B virus (Hepatitis B surface antigen, or HBsAg) during pregnancy.
- HIV Test Done – mother was screened for the Human Immunodeficiency Virus (HIV) during pregnancy.
- Group B Strep Test Done – 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 [BC Prenatal Genetic Screening Program](#).
- 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 [BC Prenatal Genetic Screening Program](#).

- Indicates the type 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 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
- Oxytocin – woman received oxytocin, pitocin, or syntocinon to augment labour.
- Other – 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:

- Artificial Rupture of Membranes
- Oxytocin – woman received oxytocin, pitocin, or syntocinon to initiate labour.
- Prostaglandin – woman received a prostaglandin to initiate labour.
- Other – 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.

- Prelabour Rupture of Membranes – rupture of membranes before the onset of uterine contractions at term.
- Post Dates – the pregnancy has continued past the due date (41 completed weeks gestation).
- Hypertension in Pregnancy – woman had high blood pressure, including pre-existing or gestational hypertension.
- Other Maternal Condition – woman had a condition other than those specified above.
- Fetal Compromise – medical concern about the health of the fetus.
- Diabetes – 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.
- Antepartum Hemorrhage – woman had bleeding after 20 weeks' gestation but before labour.
- Chorioamnionitis – woman had a cervicovaginal infection.
- Other – other reason not captured above.

- Unknown – reason for induction is unclear, unknown, or not documented.

Fetal Surveillance During Labour

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

Mode of Delivery

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

Perineal Trauma

- Third or Fourth Degree Laceration – the woman experienced a significant perineal tear during delivery.
- Cervical Tear – the woman experienced a cervical tear during delivery.
- Episiotomy – 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).

- Repeat Cesarean – woman with a history of cesarean is not a VBAC candidate and has a medical indication for repeat cesarean delivery.
- Nonreassuring Fetal Heart Rate – increased or decreased fetal heart rate (tachycardia or bradycardia), especially during and after uterine contractions.

- Dystocia/Cephalopelvic Disproportion – abnormal or difficult labour. Includes failure to progress, incoordinate uterine activity, and cephalopelvic disproportion (large baby for maternal pelvis).
- VBAC Declined/Maternal Request – 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.
- Breech – the fetus' buttocks were the presenting part.
- Malposition/Malpresentation – 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.
- Placenta Previa – the placenta is low in the uterus, partially or completely covering the cervix.
- Abruptio Placenta – premature separation of the placenta from the uterus.
- Active Herpes – mother had an active herpes outbreak that could be transmitted to the infant during vaginal delivery.
- Other – other reason not captured.
- Unknown – reason for cesarean is unclear, unknown, or not documented.

Vaginal Birth after Cesarean

- VBAC Eligible – 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.
- VBAC Attempted – women 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.
- VBAC Success – 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.
- Epidural – the mother received anesthesia in the epidural space of the spine for pain management.
- General – the mother received general anesthesia for pain management.
- Local – the mother received localized anesthetic agents for pain management.
- Spinal – the mother received anesthesia in the subarachnoid space of the spine for pain management.
- Combined Spinal and Epidural – the mother received anesthesia both in the subarachnoid space and epidural space of the spine for pain management.
- Other – mother received another type of anesthetic or analgesic agent – including pudendal anesthesia – not specified above.
- No Anesthetic – no analgesic or anesthetic agents were used for pain management.

Health Care Providers

- Delivery Provider – 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.

- Family Physician + Cesarean – a family physician performed a cesarean delivery.
- Deliveries With Midwifery-Involved Care – a registered midwife was involved at any point in maternal or newborn care. A registered midwife may not have been the delivery provider.

Length of Stay for Delivery Episode of Care

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

- Liver Complications – mother had confirmed or suspected cholestasis, acute fatty liver, or liver hematoma.
- Postpartum Hemorrhage with Transfusion – mother had a postpartum bleed and received blood products via transfusion.
- Urinary Tract Infection
- Sepsis – mother had confirmed or suspected sepsis, including puerperal sepsis.
- Wound Infection – mother had confirmed or suspected infection or disruption of an obstetric or surgical wound.
- HELLP – mother had confirmed or suspected HELLP syndrome (Hemolysis, Elevated Liver enzymes, and Low Platelet count).
- Anesthetic Complications – 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.
- Antepartum Hemorrhage with Transfusion – 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.
- Shock – mother had confirmed or suspected obstetric shock.
- Pulmonary Embolism – mother had a confirmed or suspected blood clot in the lungs.
- Postpartum Hemorrhage with Hysterectomy – mother had a postpartum bleed and underwent a complete or subtotal (partial) hysterectomy.
- Stroke – 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.

- Maternal Severe Adverse Event – woman experienced uterine rupture during labour, assisted ventilation or resuscitation, or in-hospital death.
- Maternal Moderate Adverse Event – woman experienced third or fourth degree perineal tear; blood transfusion; or unanticipated operative procedure
- Newborn Severe Adverse Event – singleton baby was stillborn or died in-hospital
- Newborn Moderate Adverse Event –
 - Singleton baby $\geq 2,000$ grams at birth experienced birth trauma, OR

- Singleton baby at term $\geq 2,500$ 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 indications.
 - 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.
- Any Transfer – woman was transferred from the Delivery Admission to a(n) (different) acute care facility.

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.
- Diagnosis associated with Post-Delivery Admission – 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:
 - Routine Postpartum Care – care and examination immediately after delivery or routine postpartum follow-up, including change or removal of drains and planned wound closure.
 - Postpartum Hemorrhage
 - Postpartum Infection – includes sepsis, obstetric wound infection, urinary tract infection, or post-procedural infection.
 - Other Diseases Complicating Pregnancy – Diseases of organ systems that complicate or are aggravated by pregnancy.
 - Hypertension or Eclampsia – includes essential hypertension, gestational hypertension, pre-eclampsia, eclampsia, or HELLP.
 - Other Wound Issues – includes care of perineal or vaginal tears, uterine rupture or dehiscence, disruption or hematoma of surgical wound, or cardiac surgical complications.
 - Complications of Anesthesia – reactions to or complications of anesthesia.
 - Care of Breasts – includes breast infection, lactation problems, or supervision of lactation mother.
 - Retained Placenta Without Hemorrhage
 - Pregnancy-Associated Mental Health – includes postpartum depression and puerperal psychosis.

Section 3: Newborn Health

Birth Type

Defined in accordance with BC Vital Stats.

- Live Birth – baby displayed signs of life (breathing, heart beat, pulsation of umbilical cord, or movement of voluntary muscle) at birth.
- Stillbirth – 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

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

Weight for Gestational Age

- Small for Gestational Age – babies born weighing less than the 10th percentile of weight for their sex and gestational age. Based on BC-specific growth curves available [here](#).
- Large for Gestational Age – babies born weighing more than the 90th percentile of weight for their sex and gestational age. Based on BC-specific growth curves available [here](#).

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.
 - NOTE: 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.

- Other Respiratory Condition – baby had a confirmed or suspected respiratory condition (other than respiratory distress syndrome or transient tachypnea).
- Transient Tachypnea – baby had confirmed or suspected transient tachypnea.
- Respiratory Distress Syndrome – baby had confirmed or suspected respiratory distress syndrome.
- Sepsis – 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.
 - Chromosomal – includes Trisomy 13, 18, and 21; sex chromosome abnormalities (i.e. Turner’s syndrome, Klinefelter’s syndrome); and other monosomies, deletions, and chromosomal rearrangements.
 - Circulatory System – includes malformations of the heart chambers, septa, valves, veins and arteries.
 - Cleft Lip or Palate
 - Digestive System – includes malformation of the tongue, mouth, pharynx, esophagus, stomach, intestines, liver, gallbladder, bile ducts, and pancreas.
 - Eye, Ear, Face, or Neck – includes malformations of the eye and its structures, tear ducts, internal and external ear, neck, and lips.
 - Genital Organs – includes malformations of male or female genitals, and indeterminate sex or hermaphroditism.
 - Musculoskeletal System – includes malformations of hip, feet, fingers, limbs, skull, spine, diaphragmatic hernia, and other malformations of the abdominal wall (including gastroschisis).
 - Nervous System – includes anencephaly, microcephaly, hydrocephalus, spina bifida, and other malformations of the brain and spinal cord.
 - Respiratory System – includes malformation of the nose, larynx, trachea, bronchus, and lung.
 - Urinary System – includes malformation of the kidneys, bladder, and ureter.
 - Other Specific Anomaly – 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.

- Exclusive Breastfeeding – baby received only breast milk (via the breast, a bottle, or other feeding method).
- No Breastfeeding – baby received only breast milk substitute.
- Non-Exclusive Breastfeeding – baby received both breast milk and breast milk substitute.
- Any Breastfeeding – 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.
 - [Click here](#) 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.
- Any Transfer – baby was transferred from the Birth Admission to a different acute care facility.

Post-Neonatal Admissions

- Post-Neonatal Admission – 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.
- Diagnosis Associated with Post-Neonatal Admission – 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
 - Feeding Problems – includes reflux, feeding difficulties, abnormal weight loss, and dehydration.
 - Congenital Anomalies – includes all congenital malformations, deformations, and chromosomal abnormalities.
 - Respiratory Infections – includes whooping cough, pneumonias, and upper and lower respiratory tract infections.
 - Other Infections – 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.

- Crude Stillbirths – baby was born deceased.
 - Crude Stillbirth Rate = stillbirths / (live births + stillbirths) x 1,000.
- Stillbirths >=500g – baby weighing ≥500g was born deceased.
 - Stillbirth Rate = stillbirths ≥500g / (live births + stillbirths ≥500g) x 1,000.
- Early Neonatal Death – baby born alive died in hospital between 0 and 6 days after birth.
 - Early Neonatal Mortality Rate = early neonatal death / live births x 1,000.
- Perinatal Death – stillbirth ≥500g OR baby born alive died in hospital between 0 and 6 days after birth.
 - Perinatal Mortality Rate = (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.
 - Late Neonatal Mortality Rate = late neonatal death / live births x 1,000.
- Post Neonatal Death – 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 [Joint Policy Statement 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

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

‘Normal Childbirth’

- According to the [Joint Policy Statement on Normal Childbirth](#), ‘Normal Childbirth’ excludes the following: spinal anesthesia, general anesthesia, vacuum-assisted delivery, forceps-assisted 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 type	Criteria
<u>Maternal Admission</u>	MOTHER_ADMISSION.screen_source = "DL" or "PP" For any woman whose Delivery Admission meets the inclusion criteria, above.
<u>Post-Delivery 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 For any woman whose Delivery Admission meets the inclusion criteria, above.
<u>Delivery Episode of Care</u>	Episode start MOTHER_ADMISSION.screen_source = "DL" and April 1, 2015 ≤ discharge_date ≤ March 31, 2020
	Include all admissions linked to the delivery where: MOTHER_ADMISSION.screen_source = "PP" and 101 ≤ institution_to <973
	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 type		Criteria
<u>Birth Admission</u>		<p>BABY_ADMISSION.screen_source = "NB"</p> <p>For any baby linked to a woman whose Delivery Admission meets the inclusion criteria, above.</p>
<u>Newborn Admission</u>		<p>BABY_ADMISSION.screen_source = "NB" or "XF"</p> <p>For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, above.</p>
<u>Post-Neonatal Admission</u>		<p>(BABY_ADMISSION.screen_source = "NB" and MOTHER.actual_place_of_delivery=2) or BABY_ADMISSION.screen_source = "XF"</p> <p>AND most responsible diagnosis is not Z76.2, Z76.3, or Z76.4</p> <p>For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, above.</p>
<u>Birth Episode of Care</u>	Episode start	BABY_ADMISSION.screen_source = "NB"
	Include all admissions linked to the birth where:	BABY_ADMISSION.screen_source = "XF" and discharge_to = "O" and 101 ≤ 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	(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)		
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 Monitoring	auscultation = "Y" and elec_fetal_monitor_external = "Y" and elec_fetal_monitor_internal ≠ "Y" and no_fetal_monitoring ≠ "Y"		
External Electronic Monitoring Only	auscultation ≠ "Y" and elec_fetal_monitor_external = "Y" and elec_fetal_monitor_internal ≠ "Y" and no_fetal_monitoring ≠ "Y"		
Internal Electronic Monitoring Only	auscultation ≠ "Y" and elec_fetal_monitor_external ≠ "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 elec_fetal_monitor_internal ≠ "Y" and 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 delivered_by = 5, 9, 10, or 11		
Deliveries with Midwifery-Involved Care	institution_id = 976 or 977 or midwife_case = "Y" or delivered_by = 3 or 7 for any infant or actual_place_of_delivery = 1 or 2	OR	doctor_service = 11004 on DOCTORS or PROCEDURES_PERFORMED for mother or baby record
Delivery at Home	institution_id = 976 or 977 or actual_place_of_delivery = 2		
Anesthesia or Analgesia			
Entonox	entonox_flg = "Y"		
Epidural	epidural_flg = "Y"	OR	anesthetic_type = 3 for a procedure_code beginning with 5MD
General	general_flg = "Y"	OR	anesthetic_type = 1 or 4 for a procedure_code beginning with 5MD
Local	local_flg = "Y"	OR	anesthetic_type = 7 for a procedure_code beginning with 5MD
Narcotic	narcotic_flg = "Y"		
Spinal	spinal_flg = "Y"	OR	anesthetic_type = 2 for a procedure_code beginning with 5MD
Combined Spinal and Epidural			Anesthetic_type = C for a procedure code beginning with 5MD
Other	other_flg = "Y" or pudendal_flg = "Y"		
No Anesthetic	none_flg = "Y"		
Perineal Trauma			
Third or Fourth Degree Laceration	laceration_flg = "Y" AND laceration_degree = 3 or 4	OR	diagnosis_code begins with O702 or O703
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 baby_presentation_delivery = 9 and gestational age ≥ 37 and prev_cesarian_deliv ≥1 and Maximum(baby_sequence) = 1)	AND	procedure_code begins with 5MD5
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" and labour_aug_flg = "Y")))		
VBAC Success	Woman VBAC Eligible and VBAC Attempted (above)	AND	procedure_code begins with 5MD5

	PDR variables		CIHI Codes
Maternal Morbidity			
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"	AND	diagnosis_code begins with O142
Anesthetic Complications	discharge_date ≥ April 1, 2012		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	screen_source = "DL" AND blood_transfusion_flg = "Y" OR (laceration_flg = "Y" AND laceration_degree = 3 or 4)	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)	AND	diagnosis_code does not begin with P832 or Q

	PDR variables		CIHI Codes
	OR (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 ≥ 2,500 and gestational age ≥ 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,		

	PDR variables		CIHI Codes
	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		
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	diagnosis_type = "M" and diagnosis_cd begins with O72
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
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 pregnancy terminations)	stillbirth = "A", "P", or "U"		
Stillbirth >=500g	stillbirth = "A", "P", or "U" and admission_weight ≥ 500		
Early Neonatal Death	stillbirth = "N" and discharge_to = "D" and (discharge_date – date_of_birth) <7 days		
Late Neonatal Death	stillbirth = "N" and discharge_to = "D" and 7 days ≤ (discharge_date – date_of_birth) ≤ 27 days		
Post Neonatal Death	stillbirth = "N" and discharge_to = "D" and 28 days ≤ (discharge_date – date_of_birth) ≤ 364 days		

	PDR variables		CIHI Codes
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
	$0 \leq \text{apgar_5_minutes} < 7$	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
	$0 \leq \text{apgar_5_minutes} < 7$	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
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 \neq 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		

	PDR variables		CIHI Codes
	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)
Iatrogenic Preterm	gestational_age < 37 and labour_ind_flg = "Y" gestational_age < 37 and labour_none_flg = "Y" and 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		
Resuscitation After Birth	ippv_mask_flg = "Y" or ippv_ett_flg = "Y" or		

	PDR variables		CIHI Codes
	<code>chest_compress_flg = "Y" or drugs = "Y"</code>		
Post-Neonatal Admission Diagnoses			
Jaundice	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with P58, P59, or R17</code>
Low Birth Weight or Preterm Birth	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with P07</code>
Congenital Anomalies	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with G901, P293, or Q</code>
Feeding Problems	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with K21, P741, P7881, P92, R633, or R634</code>
Respiratory Infections	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with A37, J00-J06, J12-J18, J20-J22, or P23</code>
Respiratory Distress	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with P22</code>
Other Infections	Post-Neonatal Admission	AND	<code>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</code>
Apnea	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with G4730, P283, P284, or R068</code>
Urinary Tract Infections	Post-Neonatal Admission	AND	<code>diagnosis_type = "M" and diagnosis_cd begins with N390 or P393</code>
Isoimmunization			<code>diagnosis_type = "M" and diagnosis_cd begins with P55</code>
"Normal Labour"	<code>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</code>		
"Normal Childbirth"	<code>general_flg ≠ "Y" and spinal_flg ≠ "Y" and episiotomy_flg ≠ "Y"</code>	AND	<code>procedure_code does not begin with 5MD53, 5MD54, 5MD55, 5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC, 5MD56PF, 5MD56PJ, or 5MD60</code> AND <code>anesthetic_type ≠ 1, 2, or 4 for a procedure_code beginning with 5MD</code>
Cervical Dilation on Admission			
0-3cm	<code>0 ≤ cervical_dilation_on_admis < 4</code>		
4-10cm	<code>cervical_dilation_on_admis ≥ 4</code>		
Unknown	<code>cervical_dilation_on_admis = null</code>		
Duration of Labour Stages			
Duration of First Stage	hours between (<code>second_stage_date second_stage_time – first_stage_date first_stage_time</code>) where <code>first_stage_date</code> and <code>second_stage_date</code> ≠ null and <code>labour_none_flg</code> ≠ "Y"		

	PDR variables		CIHI Codes
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	$0 \leq \text{apgar_5_minutes} < 7$		

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.