

Perinatal Health Report

Provincial Health Services Authority 2023/24



Publication Information

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Perinatal Services BC 200-1333 W Broadway, Vancouver, BC V6H 1G9

T: 604-877-2121 F: 604-872-1987 psbc@phsa.ca www.perinatalservicesbc.ca

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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, 2019 and March 31, 2024.
- 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 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.

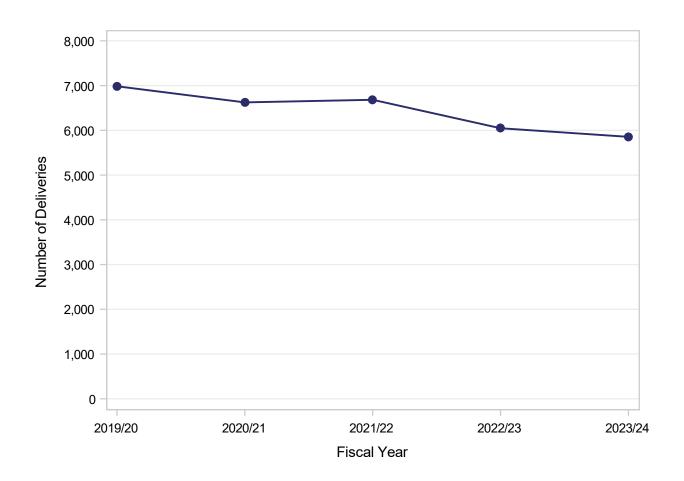
¹NOTE: Until March 31, 2014, if a woman who delivered at home with a registered midwife was admitted to acute care within 24 hours of delivery, the acute care admission was her Delivery Admission and the transfer was not recorded. Effective April 1, 2014, all deliveries at home with a registered midwife 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 2019/20 to 2023/24 Provincial Health Services Authority

Section 1: Maternal Health

Total Deliveries

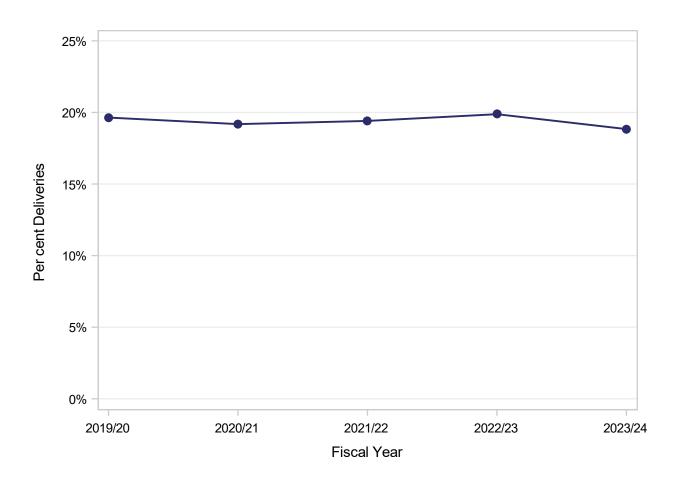
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Provincial Health Services Authority	6,985	6,625	6,683	6,047	5,855		

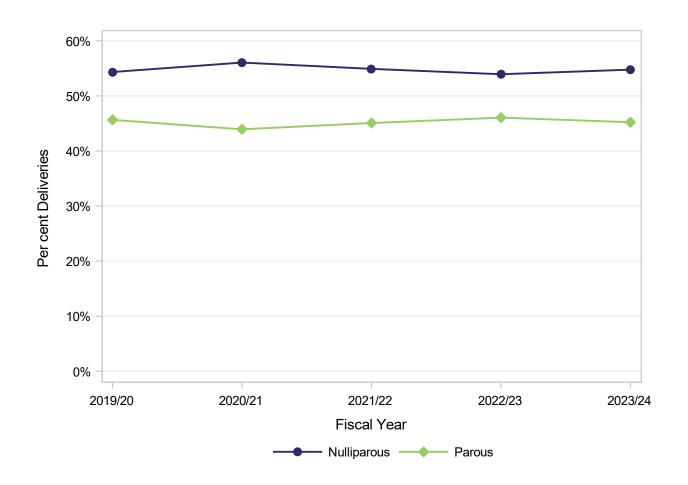
Deliveries to Residents of Other Health Authorities

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Health Authority	2019/20	2020/21	2021/22	2022/23	2023/24		
Provincial Health Services Authority	19.6%	19.2%	19.4%	19.9%	18.8%		

Deliveries by ParityDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

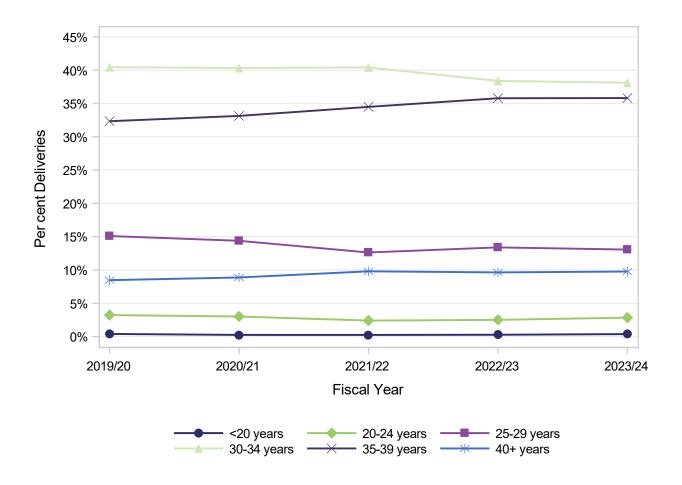


Average and Median Maternal Age at Delivery by Parity

		Fiscal Year								
	2019/20		2019/20 2020/21 2021/22		/22	2022/23		2023/24		
Parity	Average	Median	Average	Median	Average	Median	Average	Median	Average	Median
All	33.8	33.9	33.9	34.0	34.3	34.4	34.3	34.5	34.3	34.5
Nulliparous	32.8	32.8	33.0	33.2	33.5	33.6	33.4	33.5	33.4	33.6
Parous	35.0	35.2	35.1	35.3	35.2	35.4	35.4	35.5	35.4	35.55

Definitions and specifications begin on Page 81 of this document.

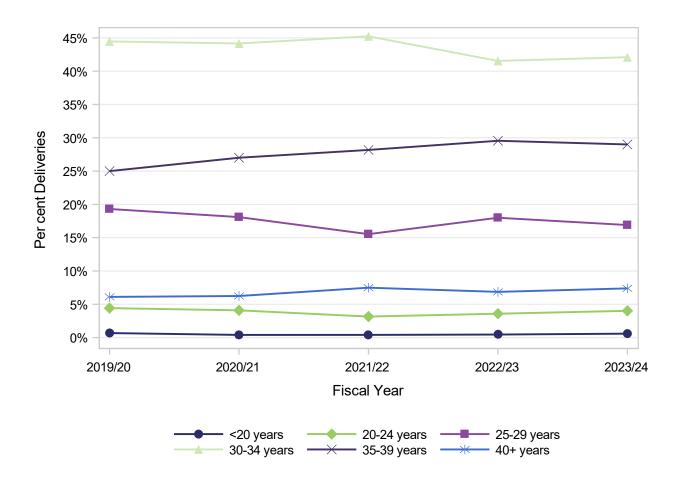
Maternal Age at Delivery
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year				
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24
<20 years	0.4%	0.3%	0.3%	0.3%	0.4%
20-24 years	3.2%	3.0%	2.4%	2.5%	2.9%
25-29 years	15.1%	14.4%	12.6%	13.4%	13.1%
30-34 years	40.4%	40.3%	40.4%	38.4%	38.1%
35-39 years	32.3%	33.1%	34.5%	35.8%	35.8%
40+ years	8.5%	8.9%	9.8%	9.6%	9.8%

Maternal Age at Delivery Nulliparous Women

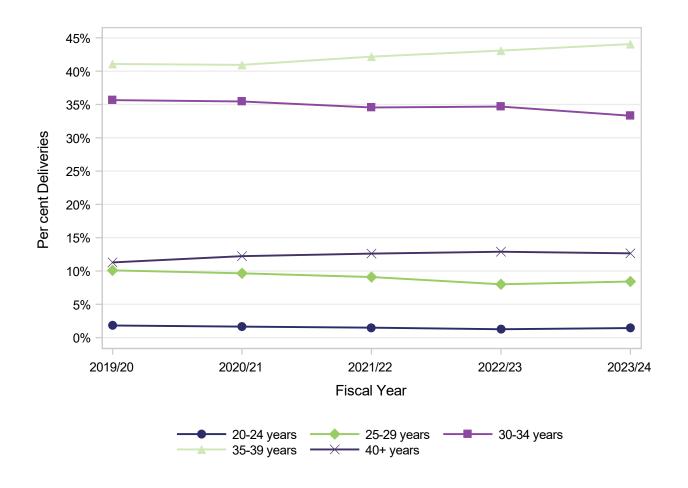
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year				
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24
<20 years	0.7%	0.4%	0.4%	0.5%	0.6%
20-24 years	4.4%	4.1%	3.2%	3.6%	4.0%
25-29 years	19.3%	18.1%	15.5%	18.0%	16.9%
30-34 years	44.5%	44.2%	45.2%	41.5%	42.1%
35-39 years	25.0%	27.0%	28.2%	29.6%	29.0%
40+ years	6.1%	6.2%	7.5%	6.9%	7.4%

Maternal Age at Delivery Parous Women

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



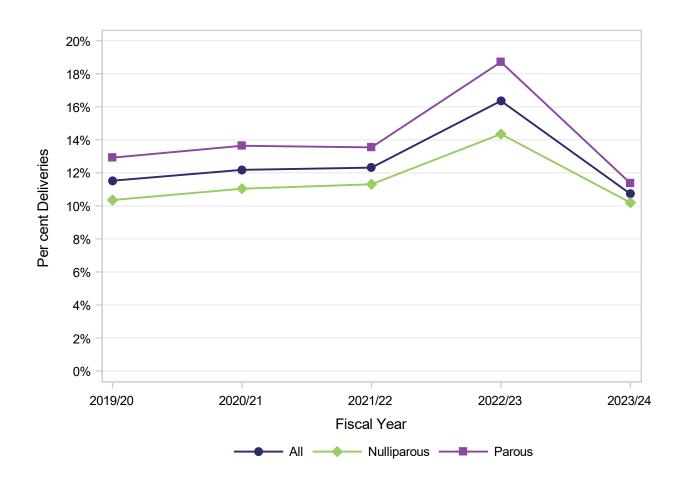
	Fiscal Year				
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24
<20 years	NR	NR	NR	NR	NR
20-24 years	1.8%	1.6%	1.5%	1.3%	1.4%
25-29 years	10.1%	9.7%	9.1%	8.0%	8.4%
30-34 years	35.7%	35.5%	34.6%	34.7%	33.3%
35-39 years	41.1%	40.9%	42.2%	43.1%	44.1%
40+ years	11.3%	12.2%	12.6%	12.9%	12.7%

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, 2019 - March 31, 2024

Deliveries with <5 Antenatal Care Visits by Parity

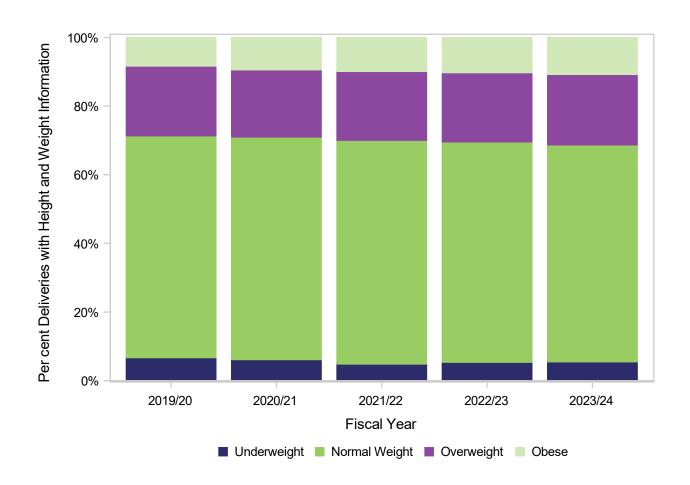


Deliveries with <5 Antenatal Care Visits or Missing Number of Visits

	Fiscal Year					
	2019/20	2020/21	2021/22	2022/23	2023/24	
<5 Visits	11.5%	12.2%	12.3%	16.4%	10.7%	
Missing Visits	4.1%	3.6%	4.5%	13.1%	13.8%	

Pre-Pregnancy Body Mass Index (BMI)
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

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

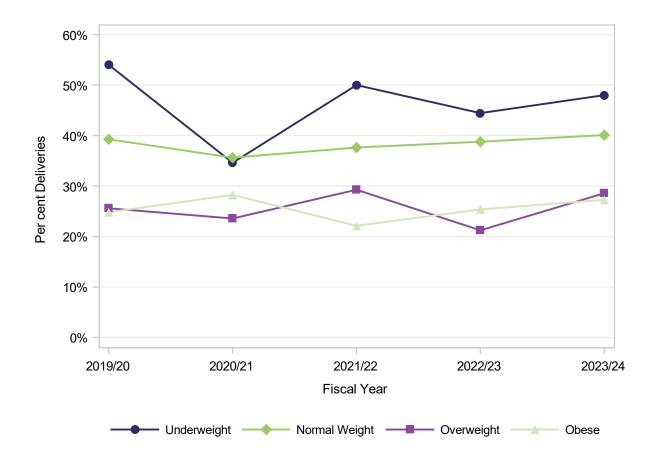


Distribution of Pre-Pregnancy BMI Among ALL Deliveries

	Fiscal Year				
BMI Category	2019/20	2020/21	2021/22	2022/23	2023/24
Underweight	4.7%	4.5%	3.7%	3.7%	3.8%
Normal Weight	45.2%	47.0%	49.1%	43.6%	43.3%
Overweight	14.2%	14.2%	15.1%	13.7%	14.1%
Obese	5.8%	6.8%	7.5%	7.0%	7.4%
BMI Missing	30.1%	27.5%	24.6%	32.1%	31.4%

Definitions and specifications begin on Page 81 of this document.

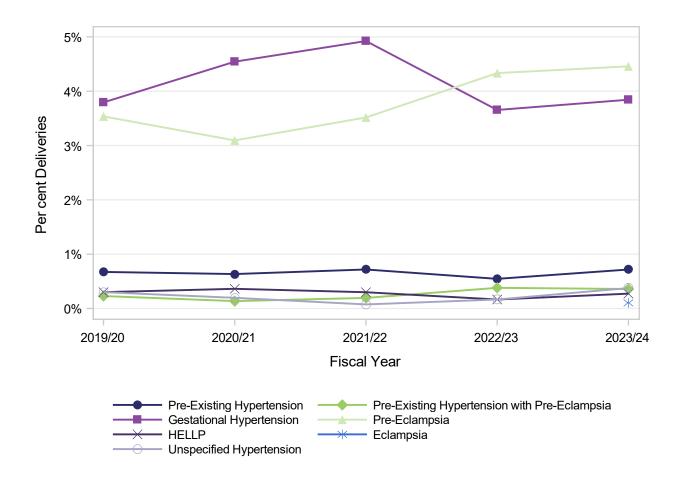
Appropriate* Weight Gain During Pregnancy by Pre-Pregnancy Body Mass Index (BMI) Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year				
BMI Category	2019/20	2020/21	2021/22	2022/23	2023/24
Underweight	54.0%	34.6%	50.0%	44.4%	48.0%
Normal Weight	39.3%	35.6%	37.6%	38.8%	40.1%
Overweight	25.6%	23.6%	29.3%	21.2%	28.6%
Obese	24.8%	28.2%	22.1%	25.4%	27.3%

^{*} As defined by the Institute of Medicine. Data are limited to deliveries with complete height and weight information (19% of deliveries in 2023/24). Definitions and specifications begin on Page 81 of this document.

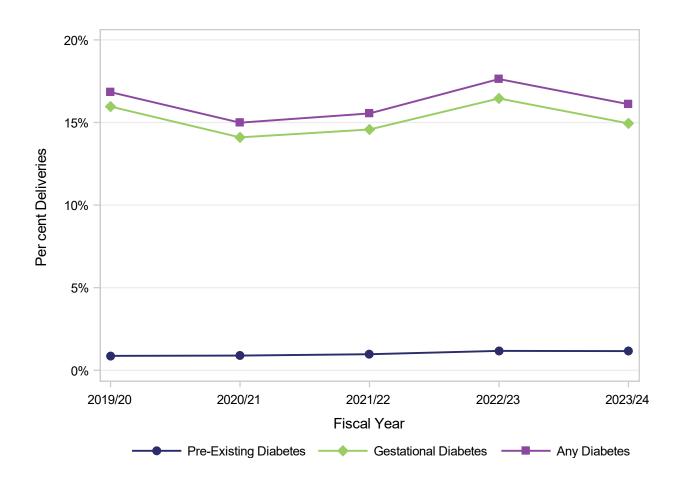
Hypertensive Disorders of PregnancyDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
Type of Hypertension	2019/20	2020/21	2021/22	2022/23	2023/24			
No Hypertension	91.2%	91.0%	90.3%	90.7%	89.9%			
Pre-Existing Hypertension	0.7%	0.6%	0.7%	0.5%	0.7%			
Pre-Existing Hypertension with Pre-Eclampsia	0.2%	0.1%	0.2%	0.4%	0.4%			
Gestational Hypertension	3.8%	4.5%	4.9%	3.7%	3.8%			
Pre-Eclampsia	3.5%	3.1%	3.5%	4.3%	4.5%			
HELLP	0.3%	0.4%	0.3%	0.2%	0.3%			
Eclampsia	NR	NR	NR	NR	0.1%			
Unspecified Hypertension	0.3%	0.2%	0.1%	0.2%	0.4%			

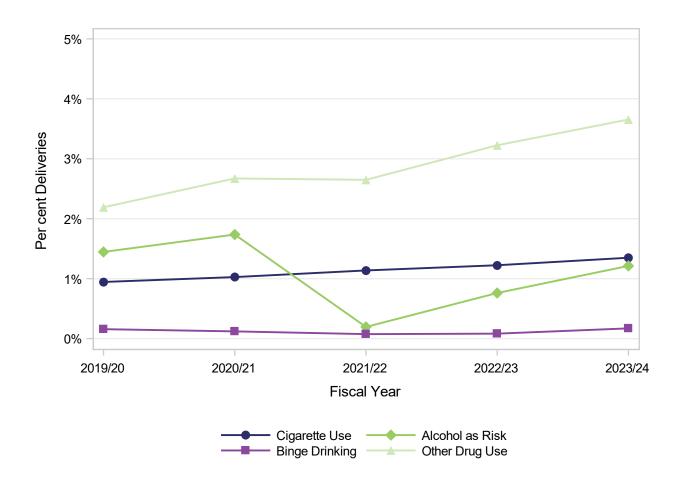
NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 81 of this document.

Diabetes Mellitus in Pregnancy
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
Type of Diabetes	2019/20	2020/21	2021/22	2022/23	2023/24			
Pre-Existing Diabetes	0.9%	0.9%	1.0%	1.2%	1.2%			
Gestational Diabetes	16.0%	14.1%	14.6%	16.5%	14.9%			
Any Diabetes	16.8%	15.0%	15.5%	17.6%	16.1%			

Substance Use During Pregnancy
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

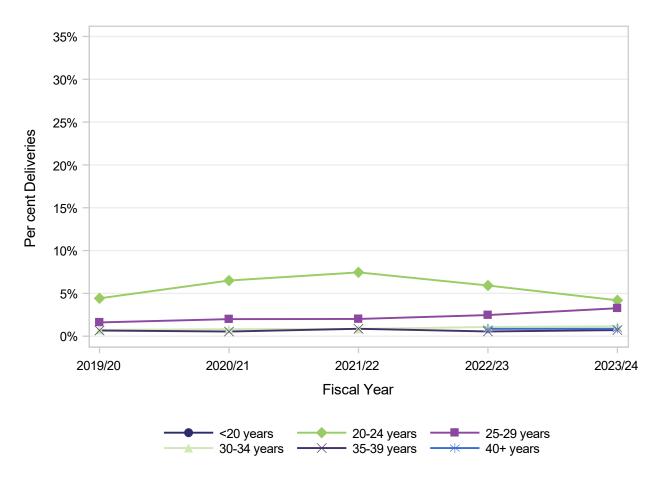


	Fiscal Year						
Substance	2019/20	2020/21	2021/22	2022/23	2023/24		
Cigarette Use	0.9%	1.0%	1.1%	1.2%	1.3%		
Alcohol as Risk	1.4%	1.7%	0.2%	0.8%	1.2%		
Binge Drinking	0.2%	0.1%	0.1%	0.1%	0.2%		
Other Drug Use	2.2%	2.7%	2.6%	3.2%	3.7%		

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

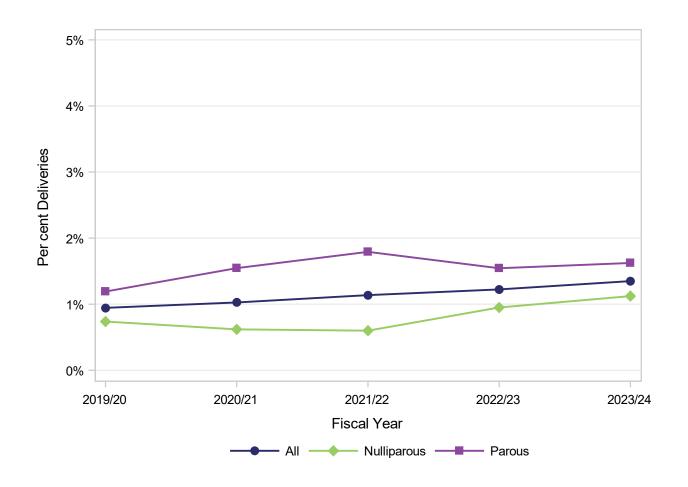
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	NR	NR	NR	NR	NR		
20-24 years	4.4%	6.5%	7.5%	5.9%	4.2%		
25-29 years	1.6%	2.0%	2.0%	2.5%	3.3%		
30-34 years	0.7%	0.8%	0.9%	1.1%	1.2%		
35-39 years	0.7%	0.5%	0.9%	0.6%	0.7%		
40+ years	NR	NR	NR	0.9%	0.9%		

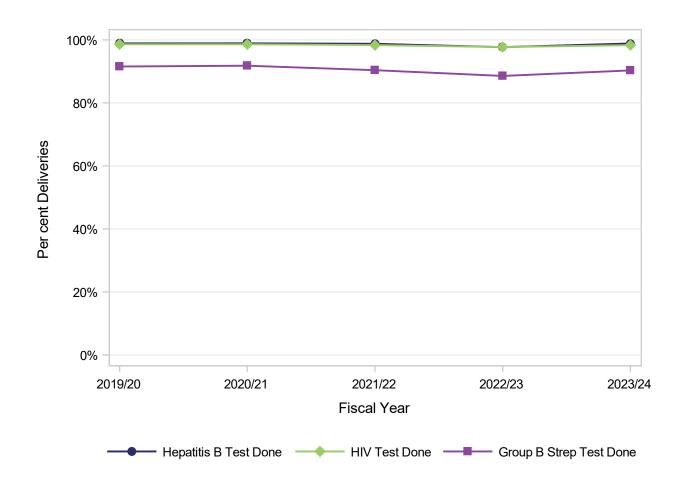
NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 81 of this document.

Cigarette Use at Any Time During Pregnancy by ParityDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



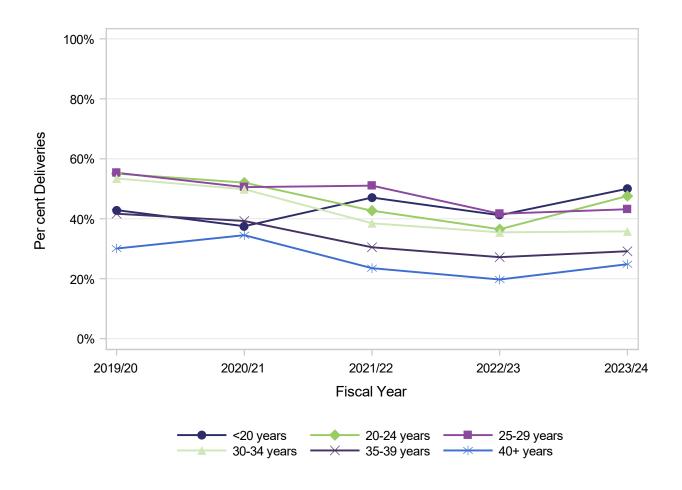
	Fiscal Year							
Parity	2019/20	2020/21	2021/22	2022/23	2023/24			
All	0.9%	1.0%	1.1%	1.2%	1.3%			
Nulliparous	0.7%	0.6%	0.6%	1.0%	1.1%			
Parous	1.2%	1.5%	1.8%	1.5%	1.6%			

Maternal Screening Tests
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Type of Screening	2019/20	2020/21	2021/22	2022/23	2023/24		
Hepatitis B Test Done	98.9%	98.9%	98.8%	97.7%	98.9%		
HIV Test Done	98.6%	98.6%	98.3%	97.7%	98.3%		
Group B Strep Test Done	91.5%	91.8%	90.4%	88.6%	90.3%		

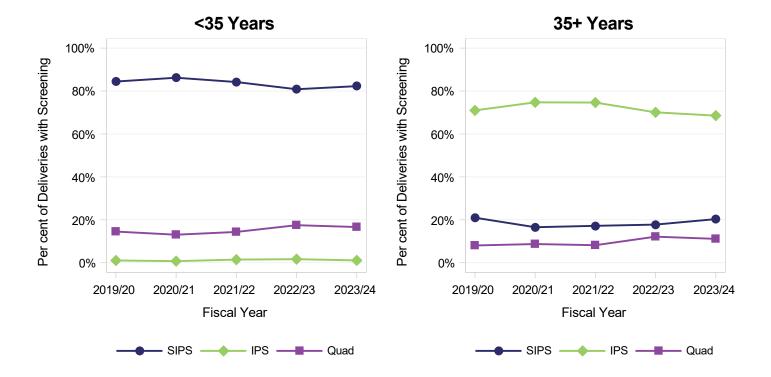
Uptake of Prenatal Genetic Screening by Maternal Age Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	42.9%	37.5%	47.1%	41.2%	50.0%		
20-24 years	55.0%	52.0%	42.7%	36.5%	47.6%		
25-29 years	55.3%	50.5%	51.0%	41.7%	43.2%		
30-34 years	53.4%	49.8%	38.5%	35.5%	35.8%		
35-39 years	41.7%	39.2%	30.5%	27.2%	29.1%		
40+ years	30.1%	34.5%	23.5%	19.7%	24.8%		

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

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



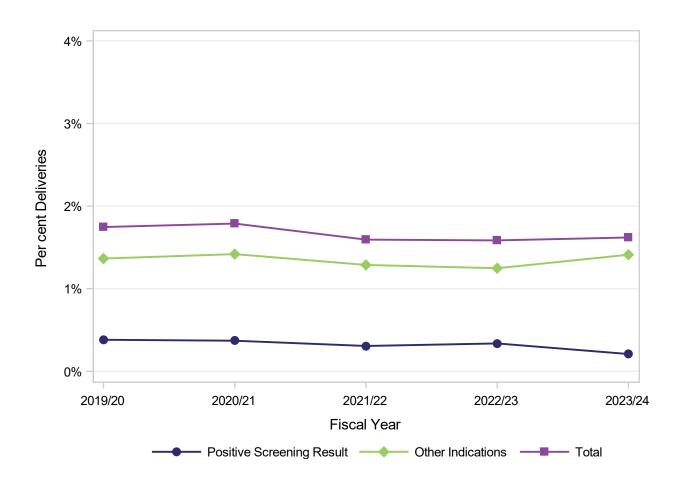
		Fiscal Year				
Maternal Age	Types of Screening	2019/20	2020/21	2021/22	2022/23	2023/24
	SIPS	84.4%	86.2%	84.2%	80.8%	82.3%
<35 years	IPS	1.1%	0.7%	1.5%	1.7%	1.1%
	Quad	14.5%	13.1%	14.4%	17.5%	16.6%
	SIPS	21.0%	16.6%	17.2%	17.8%	20.3%
35+ years	IPS	71.0%	74.7%	74.6%	70.1%	68.5%
	Quad	8.0%	8.7%	8.2%	12.1%	11.1%

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 2023/24).

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 IndicationDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



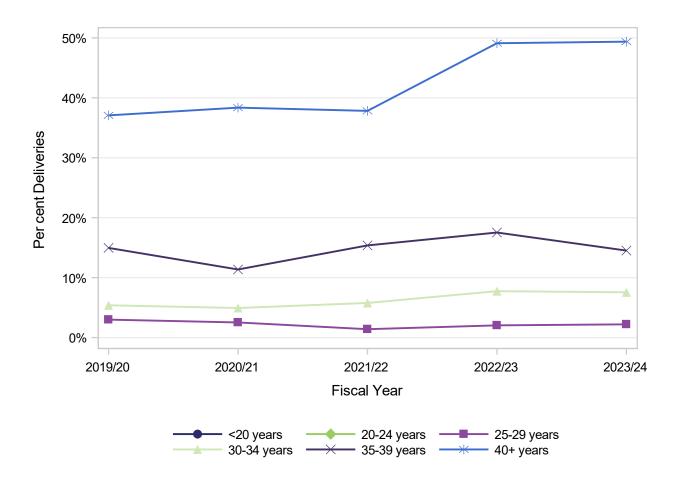
	Fiscal Year							
Invasive Diagnostic Testing Indication	2019/20	2020/21	2021/22	2022/23	2023/24			
Positive Screening Result	0.4%	0.4%	0.3%	0.3%	0.2%			
Other Indications	1.4%	1.4%	1.3%	1.2%	1.4%			
Total	1.7%	1.8%	1.6%	1.6%	1.6%			

Invasive diagnostic testing includes chorionic villus sampling or amniocentesis. Data are limited to singleton deliveries.

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

Definitions and specifications begin on Page 81 of this document.

Use of Artificial Reproductive Technology Nulliparous Women by Age Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	NR	NR	NR	NR	NR		
20-24 years	NR	NR	NR	NR	NR		
25-29 years	3.0%	2.5%	1.4%	2.0%	2.2%		
30-34 years	5.4%	4.9%	5.8%	7.7%	7.6%		
35-39 years	15.0%	11.4%	15.4%	17.5%	14.5%		
40+ years	37.1%	38.4%	37.8%	49.1%	49.4%		

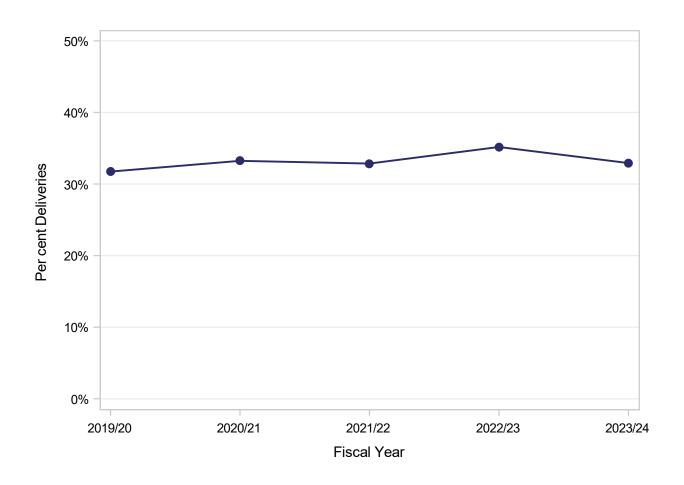
NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 81 of this document.

Section 1: Maternal Health.

Perinatal Health Report 2019/20 to 2023/24 Provincial Health Services Authority

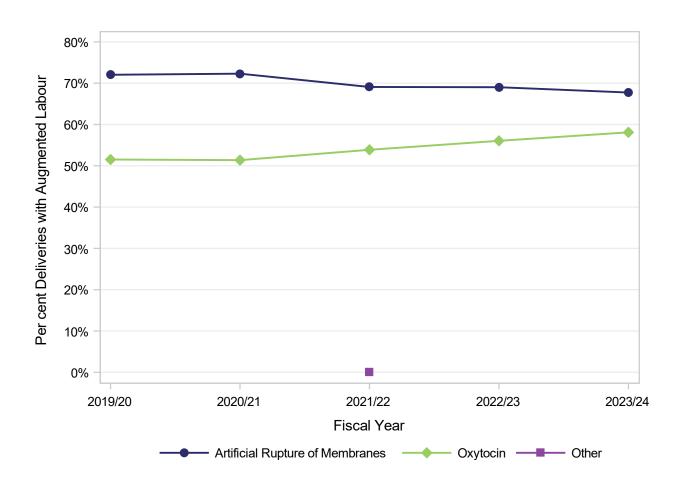
Section 2: Labour and Delivery

Labour AugmentationDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20 2020/21 2021/22 2022/23 2023/2						
Labour Augmentation	31.7%	33.2%	32.9%	35.2%	32.9%		

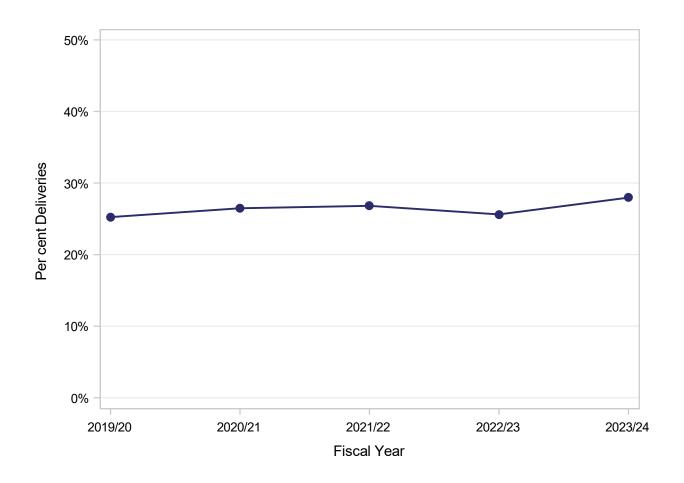
Method of Labour AugmentationDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Method of Labour Augmentation	2019/20	2020/21	2021/22	2022/23	2023/24		
Artificial Rupture of Membranes	72.0%	72.3%	69.1%	69.0%	67.7%		
Oxytocin	51.5%	51.4%	53.9%	56.0%	58.1%		
Other	NR	NR	0.0%	NR	NR		

Labour Induction

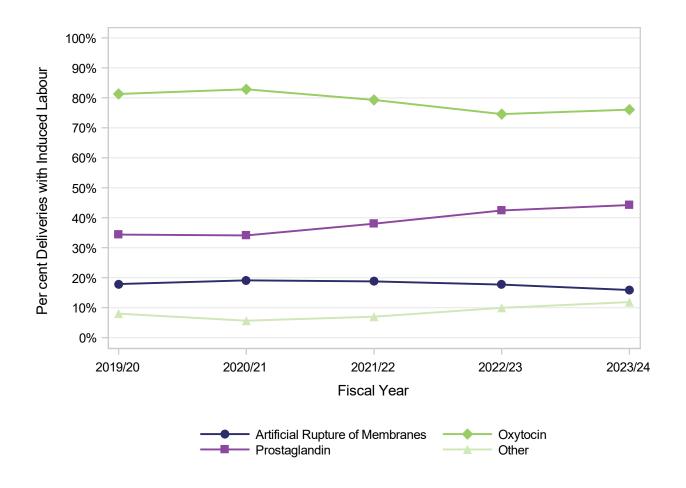
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Labour Induction	25.2%	26.5%	26.8%	25.6%	28.0%		

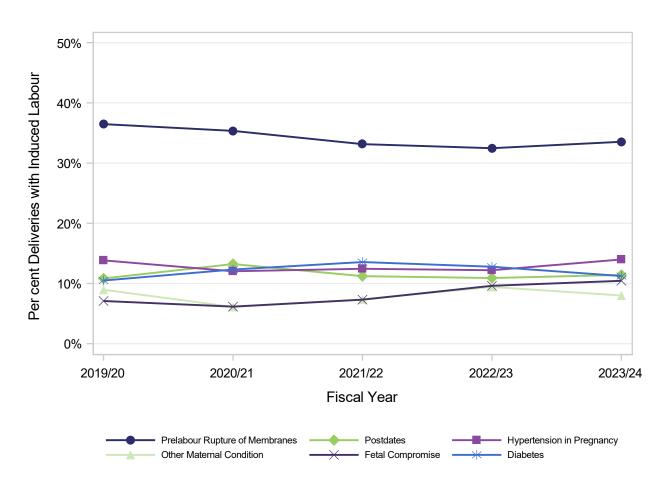
Method of Labour Induction

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year					
Method of Labour Induction	2019/20	2020/21	2021/22	2022/23	2023/24	
Artificial Rupture of Membranes	17.9%	19.1%	18.8%	17.7%	15.9%	
Oxytocin	81.3%	82.8%	79.3%	74.6%	76.1%	
Prostaglandin	34.4%	34.1%	38.0%	42.4%	44.2%	
Other	8.0%	5.6%	7.0%	9.9%	11.9%	

Primary Indication for Labour InductionDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



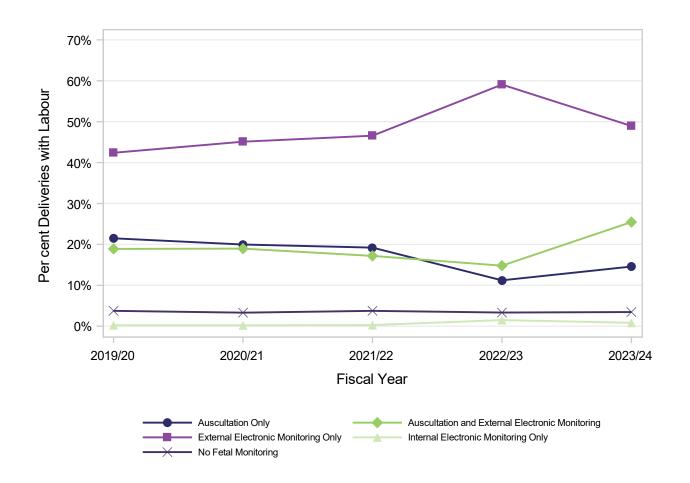
	Fiscal Year						
Primary Indication for Labour Induction	2019/20	2020/21	2021/22	2022/23	2023/24		
Prelabour Rupture of Membranes	36.5%	35.3%	33.1%	32.5%	33.5%		
Post Dates	10.8%	13.2%	11.2%	10.9%	11.4%		
Hypertension in Pregnancy	13.8%	12.0%	12.4%	12.2%	14.0%		
Other Maternal Condition	9.0%	6.1%	7.4%	9.4%	8.0%		
Fetal Compromise	7.1%	6.2%	7.3%	9.6%	10.4%		
Diabetes	10.5%	12.3%	13.6%	12.8%	11.2%		
Fetal Demise	0.8%	0.6%	0.8%	1.0%	0.9%		
Logistics	NR	NR	NR	NR	NR		
Antepartum Hemorrhage	NR	NR	NR	0.4%	0.3%		
Chorioamnionitis	NR	NR	NR	NR	NR		
Other	11.3%	13.5%	13.2%	10.9%	10.0%		
Unknown	NR	NR	0.6%	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.

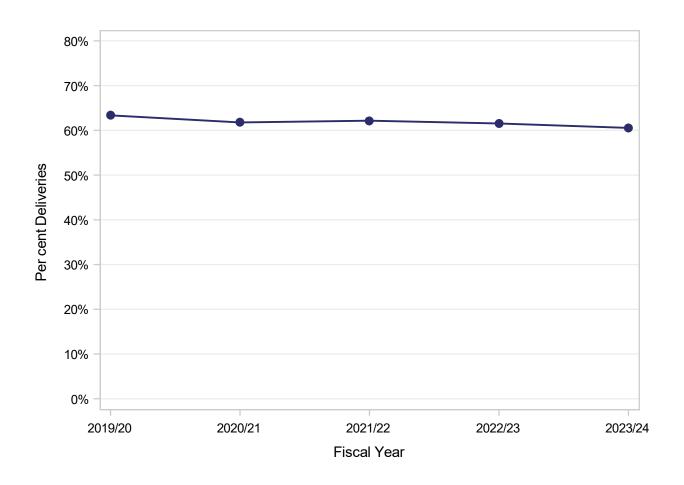
Definitions and specifications begin on Page 81 of this document.

Method of Fetal Surveillance During Labour Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year					
Method of Fetal Surveillance During Labour	2019/20	2020/21	2021/22	2022/23	2023/24	
Auscultation Only	21.5%	20.0%	19.2%	11.2%	14.6%	
Auscultation and External Electronic Monitoring	18.9%	19.0%	17.2%	14.8%	25.5%	
External Electronic Monitoring Only	42.4%	45.1%	46.6%	59.1%	48.9%	
Internal Electronic Monitoring Only	0.2%	0.2%	0.3%	1.5%	0.8%	
No Fetal Monitoring	3.8%	3.3%	3.8%	3.3%	3.5%	

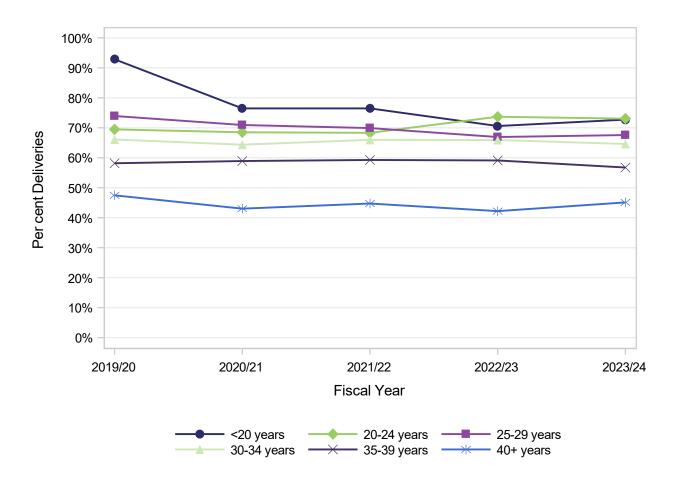
Vaginal DeliveryDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Vaginal Delivery	63.4%	61.8%	62.2%	61.5%	60.5%		

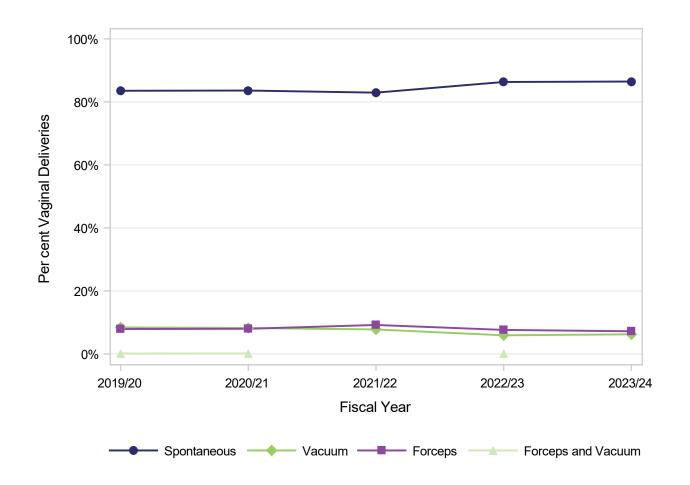
Vaginal Delivery

by Maternal AgeDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year					
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24	
<20 years	92.9%	76.5%	76.5%	70.6%	72.7%	
20-24 years	69.5%	68.5%	68.3%	73.7%	73.1%	
25-29 years	73.9%	70.9%	69.9%	66.9%	67.6%	
30-34 years	66.1%	64.4%	66.0%	65.9%	64.6%	
35-39 years	58.2%	58.9%	59.3%	59.1%	56.7%	
40+ years	47.5%	43.0%	44.7%	42.2%	45.1%	

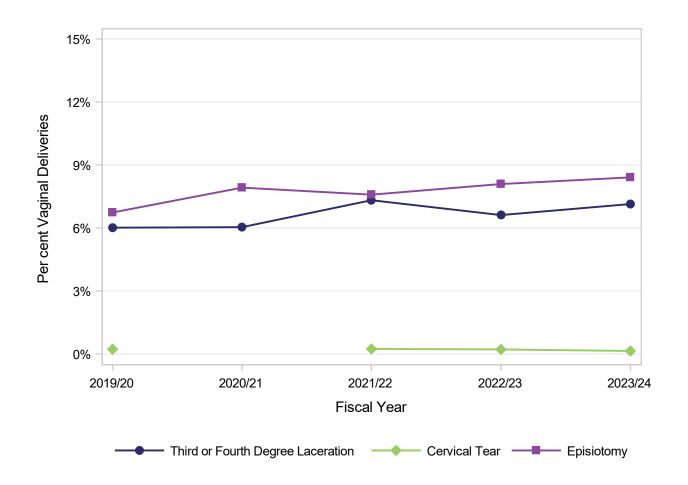
Type of Vaginal Delivery
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Type of Vaginal Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Spontaneous	83.5%	83.6%	82.9%	86.3%	86.5%		
Vacuum	8.4%	8.2%	7.8%	5.9%	6.2%		
Forceps	7.9%	8.0%	9.2%	7.6%	7.2%		
Forceps and Vacuum	0.1%	0.2%	NR	0.1%	NR		

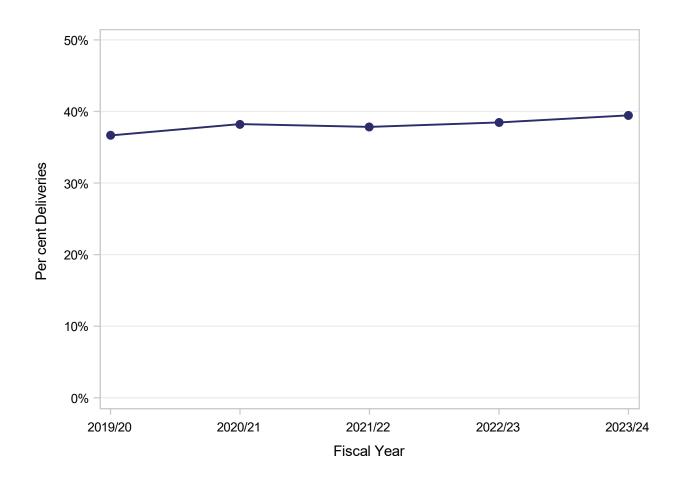
Perineal Trauma

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year					
Perineal Trauma	2019/20	2020/21	2021/22	2022/23	2023/24	
Third or Fourth Degree Laceration	6.0%	6.0%	7.3%	6.6%	7.1%	
Cervical Tear	0.2%	NR	0.2%	0.2%	0.1%	
Episiotomy	6.7%	7.9%	7.6%	8.1%	8.4%	

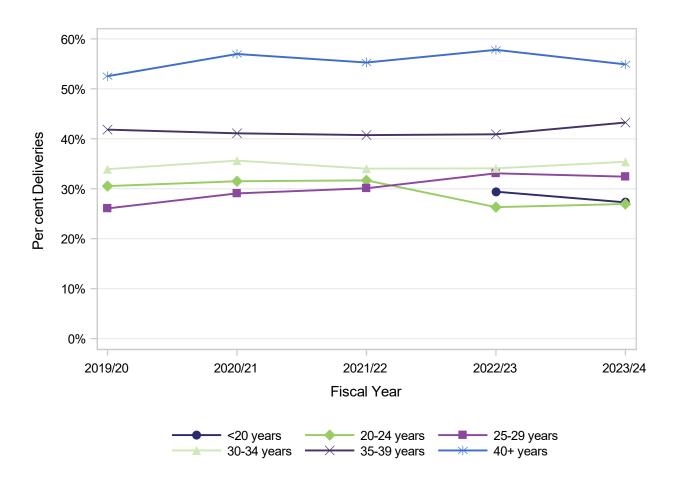
Cesarean DeliveryDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year					
	2019/20	2020/21	2021/22	2022/23	2023/24	
Cesarean Delivery	36.6%	38.2%	37.8%	38.5%	39.5%	

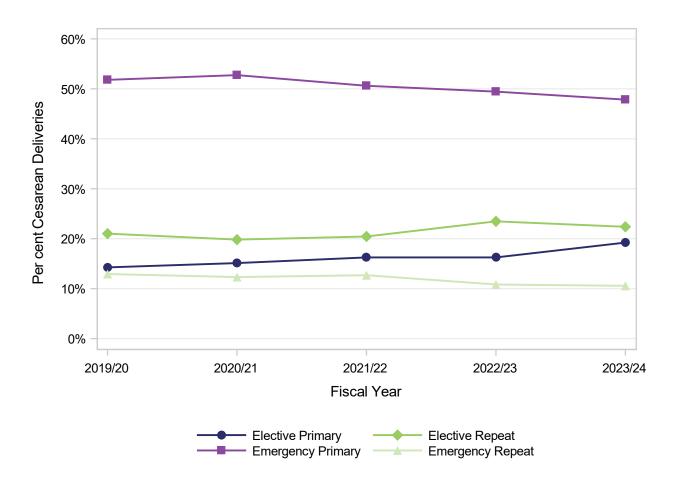
Cesarean Delivery

by Maternal AgeDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



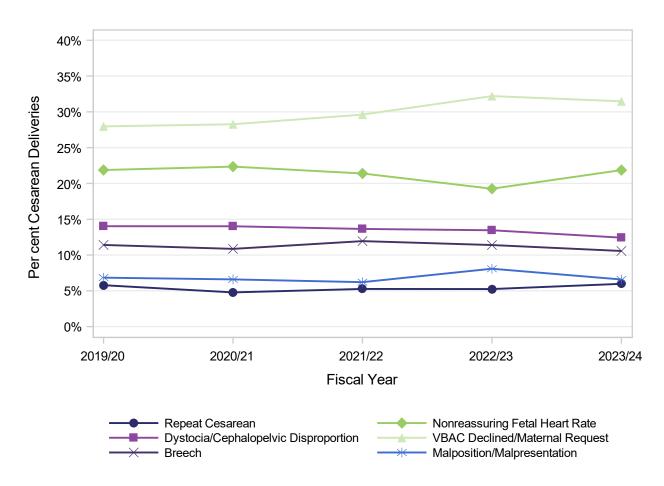
	Fiscal Year					
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24	
<20 years	NR	NR	NR	29.4%	27.3%	
20-24 years	30.5%	31.5%	31.7%	26.3%	26.9%	
25-29 years	26.1%	29.1%	30.1%	33.1%	32.4%	
30-34 years	33.9%	35.6%	34.0%	34.1%	35.4%	
35-39 years	41.8%	41.1%	40.7%	40.9%	43.3%	
40+ years	52.5%	57.0%	55.3%	57.8%	54.9%	

Type of Cesarean DeliveryDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Type of Cesarean Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Elective Primary	14.3%	15.1%	16.3%	16.3%	19.2%		
Elective Repeat	21.0%	19.8%	20.4%	23.5%	22.4%		
Emergency Primary	51.8%	52.7%	50.6%	49.4%	47.8%		
Emergency Repeat	12.9%	12.3%	12.7%	10.8%	10.6%		

Primary Indication for Cesarean DeliveryDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



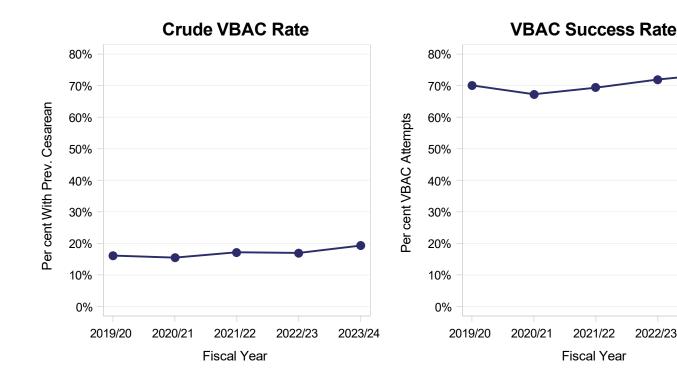
	Fiscal Year					
Primary Indication for Cesarean Delivery	2019/20	2020/21	2021/22	2022/23	2023/24	
Repeat Cesarean	5.8%	4.8%	5.3%	5.2%	6.0%	
Nonreassuring Fetal Heart Rate	21.9%	22.3%	21.4%	19.3%	21.9%	
Dystocia/Cephalopelvic Disproportion	14.0%	14.0%	13.6%	13.5%	12.4%	
VBAC Declined/Maternal Request	28.0%	28.3%	29.6%	32.2%	31.5%	
Breech	11.4%	10.9%	11.9%	11.4%	10.6%	
Malposition/Malpresentation	6.8%	6.6%	6.2%	8.1%	6.6%	
Placenta Previa	2.0%	2.6%	2.5%	2.5%	2.1%	
Abruptio Placenta	0.6%	0.7%	0.5%	0.4%	0.6%	
Active Herpes	NR	0.2%	NR	NR	NR	
Other	9.5%	9.7%	8.9%	7.4%	8.3%	
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.

Vaginal Birth After Cesarean (VBAC)

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



Vaginal Birth After Cesarean (VBAC)

	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Crude VBAC Rate	16.1%	15.5%	17.2%	17.0%	19.3%		
VBAC Eligible Rate	79.1%	83.3%	81.0%	82.1%	79.5%		
VBAC Attempted Rate	28.6%	27.4%	30.2%	28.0%	32.1%		
VBAC Success Rate	70.1%	67.3%	69.4%	71.9%	73.9%		

Crude VBAC Rate: Total number vaginal deliveries / Women with a previous cesarean VBAC Eligible Rate: Women considered eligible for VBAC / Women with a previous cesarean

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

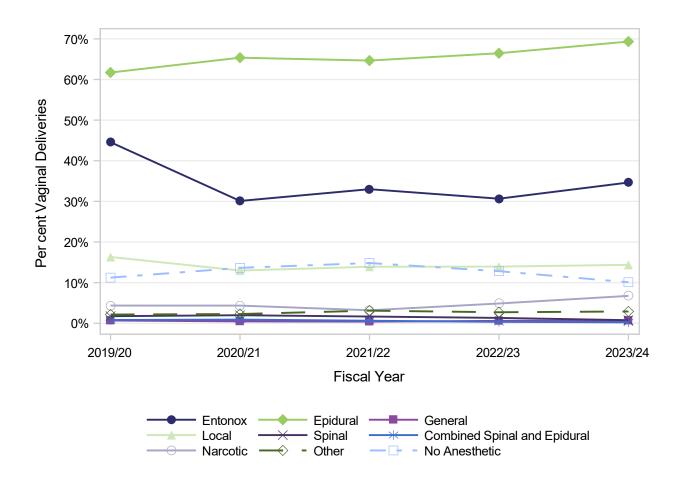
VBAC Success Rate: Women with a vaginal delivery / Women who were eligible for and attempted VBAC

2022/23

2023/24

Anesthesia or Analgesia During Labour and Delivery Vaginal Deliveries

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



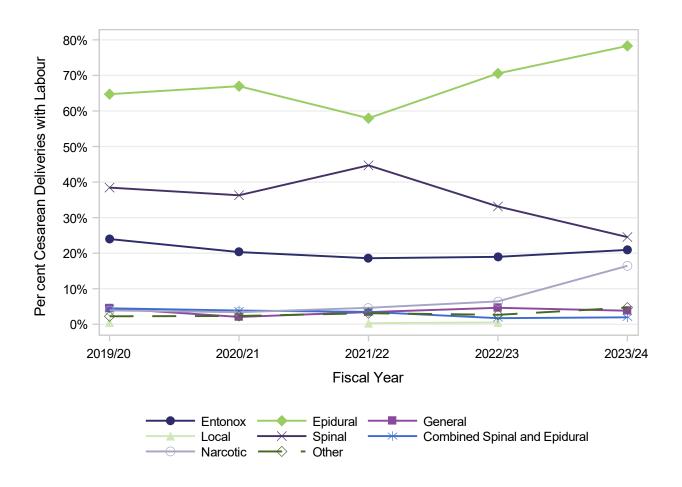
Anesthesia or Analgesia	2019/20	2020/21	2021/22	2022/23	2023/24
Entonox	44.6%	30.1%	33.0%	30.7%	34.6%
Epidural	61.7%	65.4%	64.7%	66.5%	69.3%
General	0.7%	0.5%	0.4%	0.6%	0.7%
Local	16.3%	13.0%	13.9%	13.9%	14.4%
Spinal	1.7%	2.0%	1.7%	1.3%	0.8%
Combined Spinal and Epidural	-	-	-	NR	0.2%
Other	2.1%	2.3%	3.1%	2.7%	2.9%
No Anesthetic	11.2%	13.6%	14.8%	12.8%	10.1%
Narcotic	4.4%	4.3%	3.2%	4.9%	6.7%

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

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

Anesthesia or Analgesia During Labour and Delivery Cesarean Deliveries with Labour

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

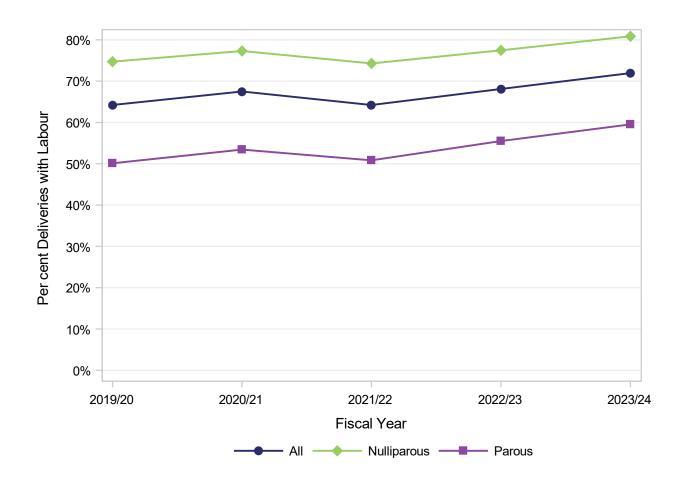


	Fiscal Year						
Anesthesia or Analgesia	2019/20	2020/21	2021/22	2022/23	2023/24		
Entonox	24.0%	20.3%	18.6%	19.0%	20.9%		
Epidural	64.7%	67.0%	58.0%	70.6%	78.3%		
General	4.5%	2.1%	3.4%	4.6%	3.8%		
Local	0.5%	NR	0.3%	0.5%	NR		
Spinal	38.4%	36.3%	44.7%	33.1%	24.5%		
Combined Spinal and Epidural	-	-	-	NR	2.0%		
Other	2.2%	2.3%	3.1%	2.7%	4.7%		
Narcotic	3.9%	3.4%	4.6%	6.4%	16.4%		

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.

Epidural Anesthesia or Analgesia During Labour and Delivery by ParityDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

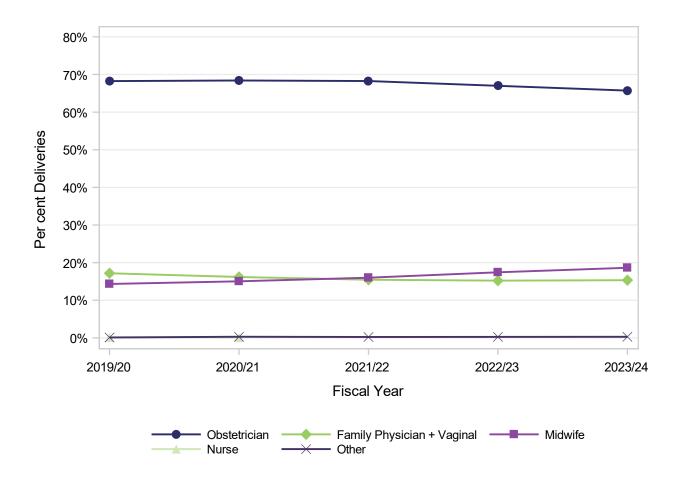


	Fiscal Year					
Parity	2019/20	2020/21	2021/22	2022/23	2023/24	
All	64.2%	67.5%	64.2%	68.1%	72.0%	
Nulliparous	74.7%	77.3%	74.3%	77.5%	80.9%	
Parous	50.1%	53.4%	50.8%	55.5%	59.5%	

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).

Delivery Provider

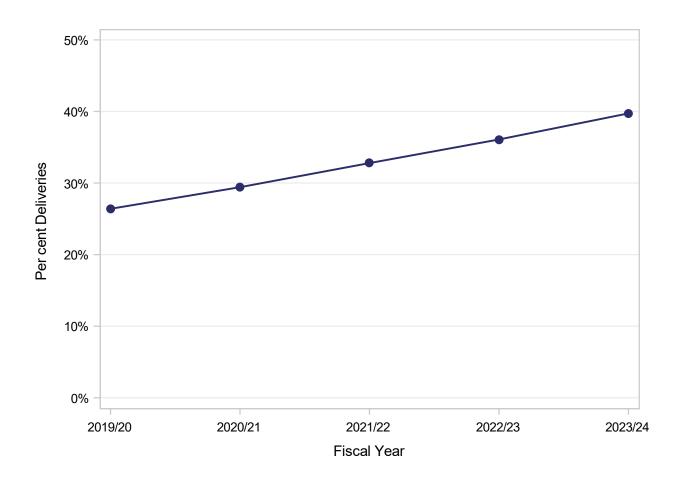
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Delivery Provider	2019/20	2020/21	2021/22	2022/23	2023/24		
Obstetrician	68.2%	68.4%	68.3%	67.0%	65.7%		
Surgeon	NR	NR	NR	NR	NR		
Family Physician + Cesarean	NR	NR	NR	NR	NR		
Family Physician + Vaginal	17.2%	16.2%	15.5%	15.2%	15.3%		
Midwife	14.3%	15.0%	16.0%	17.4%	18.6%		
Nurse	0.1%	0.1%	NR	NR	NR		
Other	0.1%	0.3%	0.2%	0.3%	0.3%		

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.

Deliveries with Midwifery-Involved CareDeliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

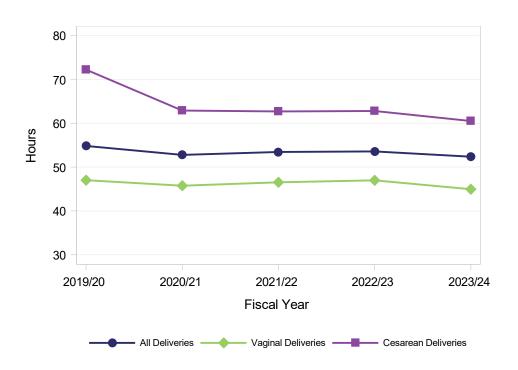


	Fiscal Year					
	2019/20	2020/21	2021/22	2022/23	2023/24	
Deliveries with Midwifery-Involved Care	26.4%	29.4%	32.8%	36.1%	39.7%	

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, 2019 - March 31, 2024

Median Total Length of Stay (Hours)

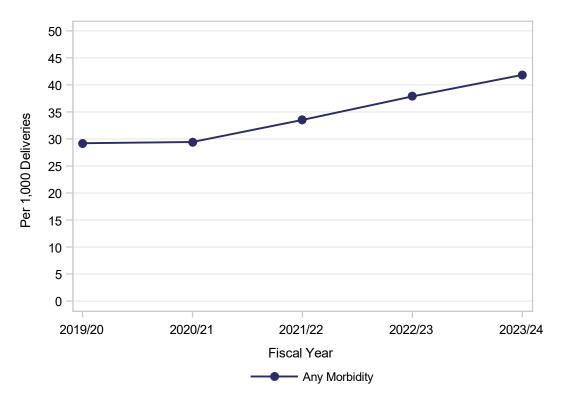


Median Antepartum, Postpartum, and Total Length of Stay for the Delivery Episode of Care

	A	ntepartı	ım LOS	(Hours)	Postpartum LOS (Hours)			Total LOS (Hours)						
		Fi	scal Yea	ır		Fiscal Year			Fiscal Year						
Mode of Delivery	19/20	20/21	21/22	22/23	23/24	19/20	20/21	21/22	22/23	23/24	19/20	20/21	21/22	22/23	23/24
All Deliveries	7.4	7.5	7.4	6.9	5.8	47.6	44.4	45.6	46.1	45.5	54.8	52.8	53.5	53.6	52.4
Vaginal Deliveries	7.8	7.9	8.0	7.4	6.7	38.0	36.2	37.3	38.4	37.2	47.0	45.8	46.5	47.0	45.0
Cesarean Deliveries	5.9	6.3	5.5	5.1	3.6	58.9	53.1	53.4	53.9	53.0	72.2	62.9	62.7	62.8	60.5

Maternal Morbidity

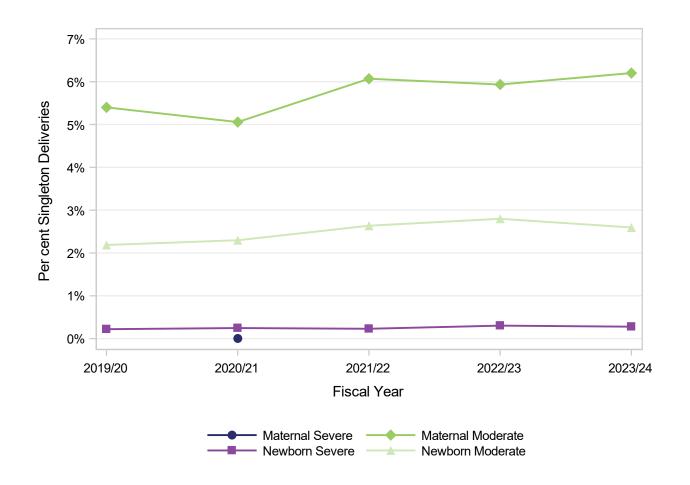
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



Specific Maternal Morbidities

	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
Type of Morbidity	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000			
Liver Complications	8.0	7.8	7.9	13.6	13.0			
Postpartum Hemorrhage with Transfusion	6.9	8.6	11.8	13.6	12.6			
Urinary Tract Infection	3.9	3.8	3.9	3.1	7.3			
Sepsis	5.6	6.0	6.3	3.3	4.8			
Wound Infection	3.1	3.5	1.9	3.1	2.7			
HELLP	3.0	3.6	3.0	1.7	2.7			
Anesthetic Complications	2.3	1.2	1.2	1.2	2.7			
Antepartum Hemorrhage with Transfusion	4.0	1.5	4.6	1.2	1.2			
Eclampsia	0.0	0.0	NR	NR	1.0			
Shock	NR	NR	0.7	0.8	NR			
Pulmonary Embolism	NR	NR	NR	NR	0.0			
Postpartum Hemorrhage with Hysterectomy	NR	NR	NR	NR	0.0			
Stroke	NR	0.0	0.7	NR	NR			

Adverse Outcome of Labour or Delivery
Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

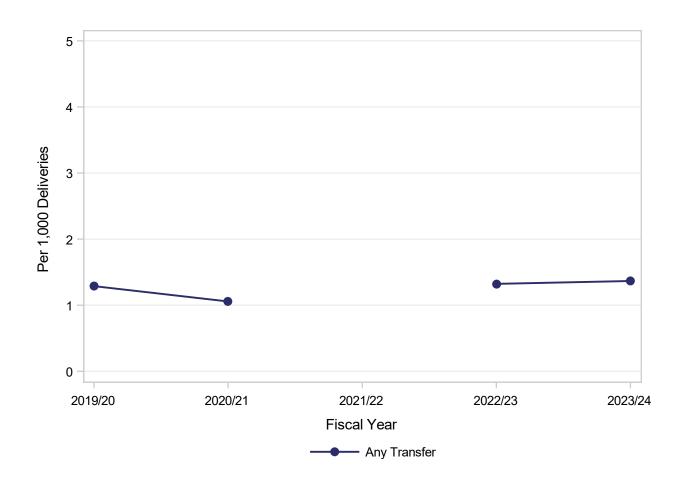


	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Any Adverse Outcome	7.6%	7.5%	8.7%	8.8%	8.9%		
Maternal Severe Adverse Outcome	NR	0.0%	NR	NR	NR		
Maternal Moderate Adverse Outcome	5.4%	5.1%	6.1%	5.9%	6.2%		
Neonatal Severe Adverse Outcome	0.2%	0.2%	0.2%	0.3%	0.3%		
Neonatal Moderate Adverse Outcome	2.2%	2.3%	2.6%	2.8%	2.6%		

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, 2019 - March 31, 2024

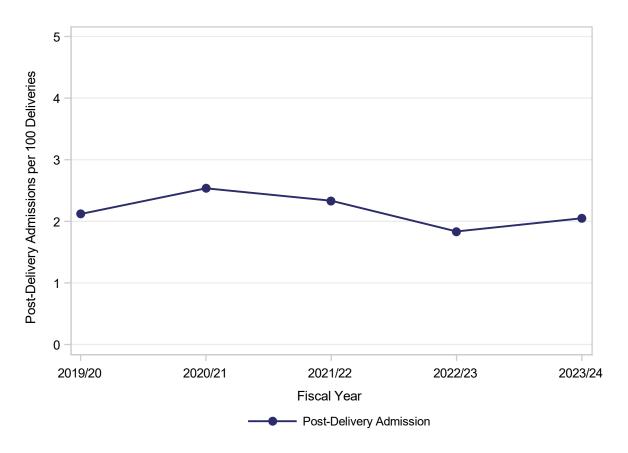


	Fiscal Year							
	2019/20 2020/21 2021/22 2022/23 2023/2							
Type of Transfer	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000			
Any Transfer	1.3	1.1	NR	1.3	1.4			

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, 2019 - March 31, 2024



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

	Fiscal Year						
Most Responsible Diagnosis	2019/20	2020/21	2021/22	2022/23	2023/24		
Postpartum Infection	24.3%	22.0%	21.2%	18.9%	25.0%		
Other Diseases Complicating Pregnancy	20.9%	22.6%	34.6%	16.2%	25.0%		
Postpartum Hemorrhage	18.9%	15.5%	12.8%	14.4%	20.8%		
Hypertension or Eclampsia	22.3%	21.4%	19.2%	24.3%	13.3%		
Retained Placenta Without Hemorrhage	0.0%	NR	NR	NR	0.0%		
Pregnancy-Associated Mental Health	NR	0.0%	NR	NR	0.0%		
Routine Postpartum Care	NR	0.0%	0.0%	NR	NR		
Other Wound Issues	NR	NR	NR	4.5%	NR		
Care of Breasts	NR	4.2%	NR	4.5%	NR		
Complications of Anesthesia	3.4%	7.1%	3.8%	NR	NR		

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

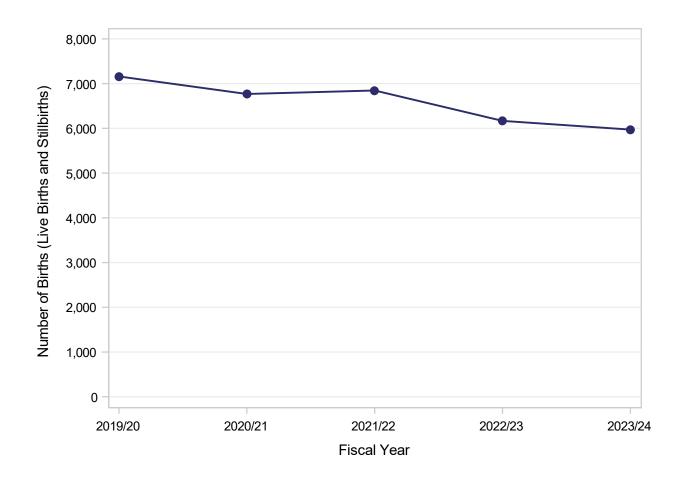
NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Perinatal Health Report 2019/20 to 2023/24 Provincial Health Services Authority

Section 3: Newborn Health

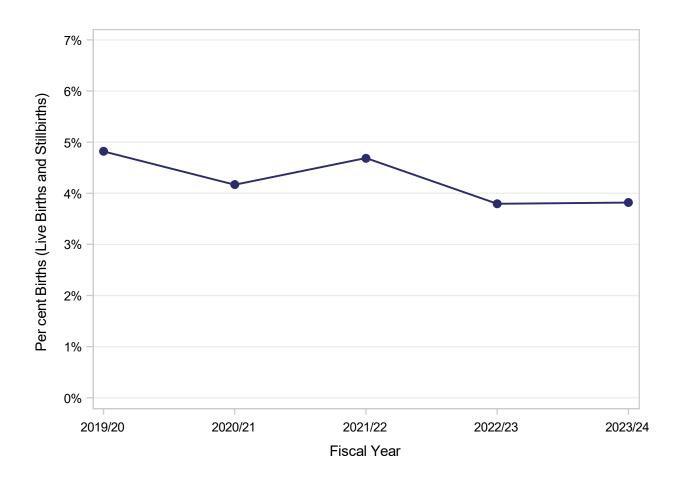
Total Births

Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Provincial Health Services Authority	7,160	6,768	6,846	6,167	5,972		

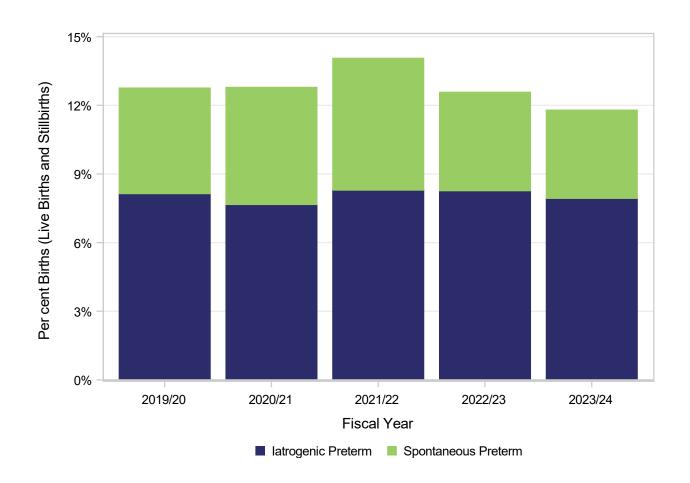
Births Part of a Multiple GestationBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Multiple Gestation	4.8%	4.2%	4.7%	3.8%	3.8%		

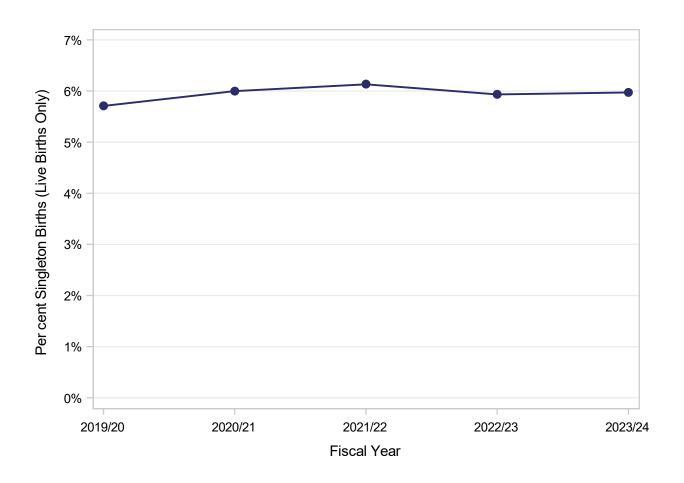
Preterm Birth

Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



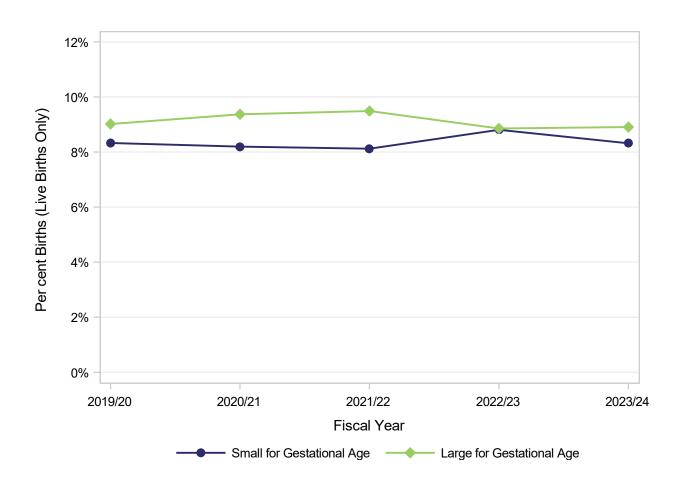
	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
latrogenic Preterm	8.1%	7.7%	8.3%	8.3%	7.9%			
Spontaneous Preterm	4.6%	5.1%	5.8%	4.3%	3.9%			
Total Preterm	12.8%	12.8%	14.1%	12.6%	11.8%			

Low Birthweight SingletonsBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
	2019/20 2020/21 2021/22 2022/23 2023							
Low Birthweight	5.7%	6.0%	6.1%	5.9%	6.0%			

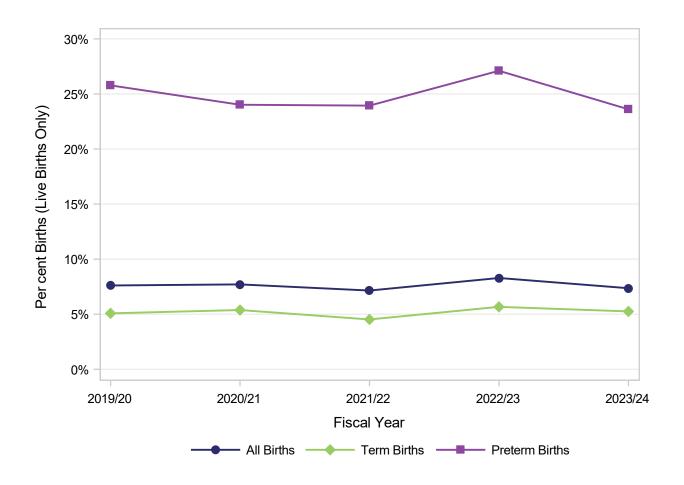
Weight for Gestational Age
Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
Small for Gestational Age	8.3%	8.2%	8.1%	8.8%	8.3%			
Large for Gestational Age	9.0%	9.4%	9.5%	8.9%	8.9%			

Newborn Resuscitation

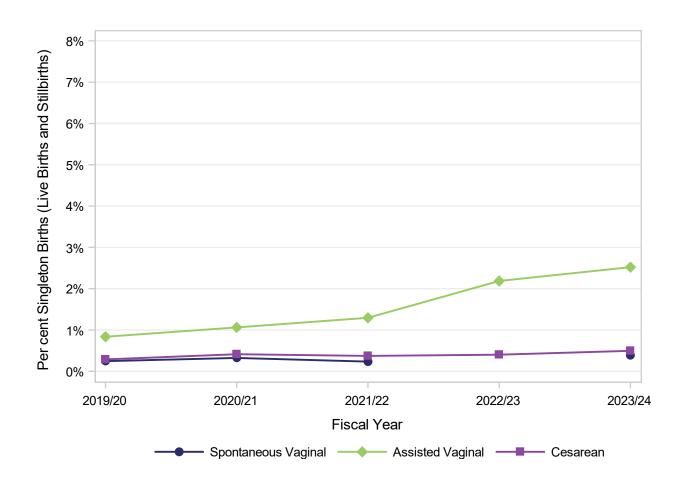
by Gestational AgeBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Gestational Age	2019/20	2020/21	2021/22	2022/23	2023/24		
All Births	7.4%	7.6%	7.0%	8.0%	7.1%		
Term Births	5.0%	5.4%	4.5%	5.6%	5.2%		
Preterm Births	25.5%	23.4%	23.6%	26.1%	22.1%		

Birth Injury

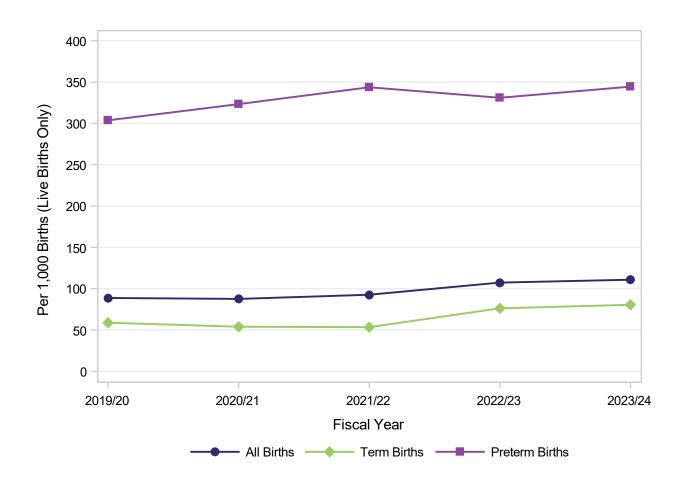
by Mode of DeliveryBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year						
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Spontaneous Vaginal	0.2%	0.3%	0.2%	NR	0.4%		
Assisted Vaginal	0.8%	1.1%	1.3%	2.2%	2.5%		
Cesarean	0.3%	0.4%	0.4%	0.4%	0.5%		

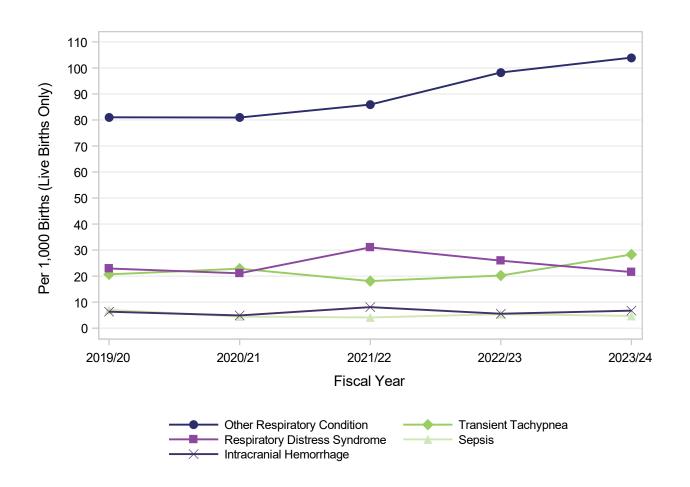
Neonatal Morbidity

by Gestational Age
Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



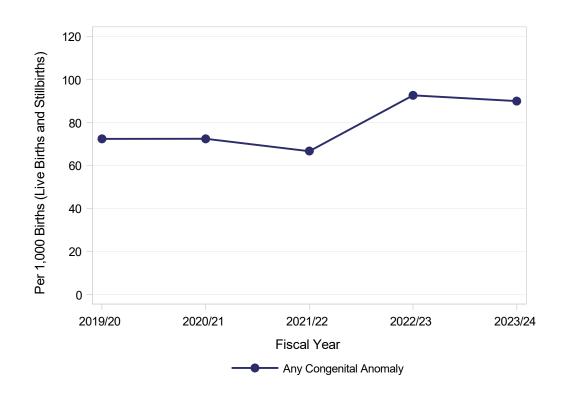
	Fiscal Year							
	2019/20	2022/23	2023/24					
Gestational Age	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000			
All Births	88.8	87.6	92.7	107.4	110.8			
Term Births	58.8	54.0	53.4	76.2	80.5			
Preterm Births	303.8	323.4	343.9	331.1	344.6			

Type of Neonatal MorbidityBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year								
	2019/20	2019/20 2020/21 2021/22		2022/23	2023/24				
Type of Morbidity	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000				
Other Respiratory Condition	81.0	80.9	85.9	98.2	103.9				
Transient Tachypnea	20.7	22.9	18.1	20.2	28.3				
Respiratory Distress Syndrome	22.9	21.1	31.0	25.9	21.6				
Sepsis	7.0	4.5	4.1	5.4	4.7				
Intracranial Hemorrhage	6.3	4.9	8.1	5.5	6.7				

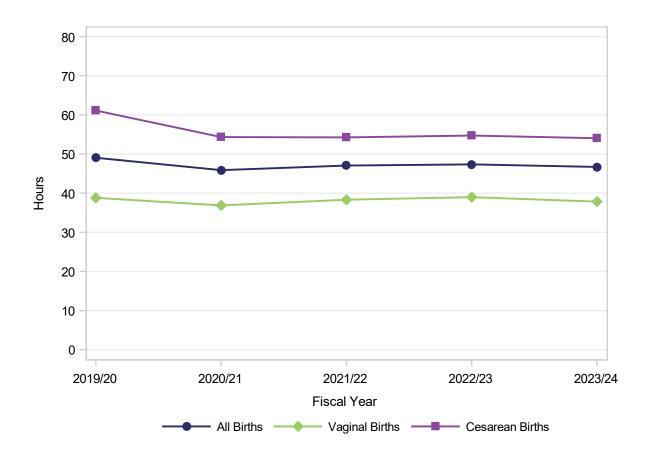
Congenital AnomaliesBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



Specific Congenital Anomalies Per 1,000 Live Births and Stillbirths

		Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24				
Type of Congenital Anomaly	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000				
Chromosomal	3.2	3.7	3.7	4.1	2.5				
Circulatory System	24.4	20.2	21.3	26.3	23.6				
Cleft Lip or Palate	2.4	1.5	1.2	2.4	NR				
Digestive System	9.1	7.5	6.6	10.7	10.9				
Eye, Ear, Face, or Neck	4.1	3.3	4.4	6.3	8.2				
Genital Organs	10.1	8.0	7.6	11.8	9.4				
Musculoskeletal System	17.3	15.5	19.3	22.2	20.4				
Nervous System	4.2	3.8	4.2	4.9	6.0				
Respiratory System	3.8	3.4	3.8	4.1	3.9				
Urinary System	8.7	9.5	7.9	12.5	13.2				
Other Specific Anomaly	8.8	12.9	6.9	12.8	8.9				

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, 2019 - March 31, 2024

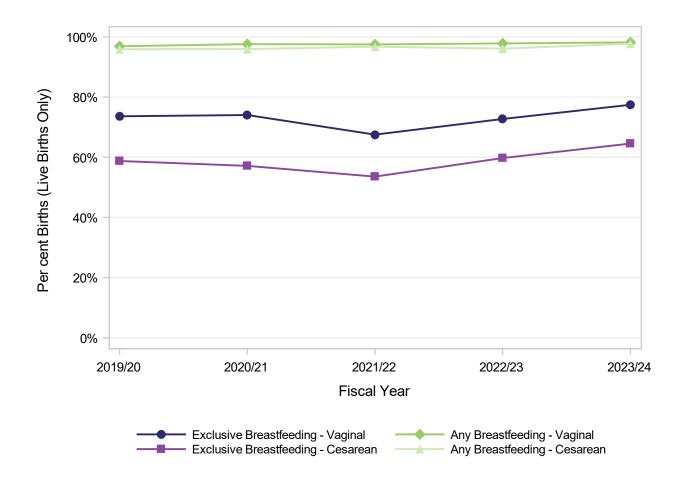


	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
All Births	49.0	45.9	47.1	47.4	46.7			
Vaginal Births	38.8	36.9	38.3	39.0	37.8			
Cesarean Births	61.1	54.3	54.3	54.7	54.0			

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

Breastfeeding During the Birth Admission by Mode of Delivery

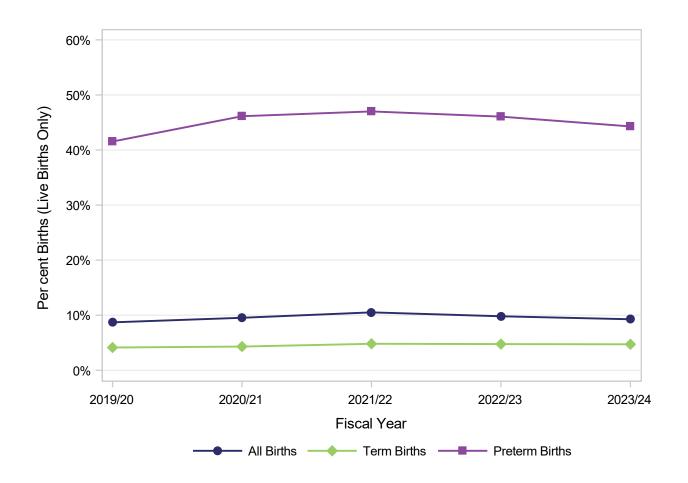
Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
Exclusive Breastfeeding - Vaginal	73.6%	74.0%	67.5%	72.7%	77.4%			
Any Breastfeeding - Vaginal	96.9%	97.6%	97.5%	97.8%	98.2%			
Exclusive Breastfeeding - Cesarean	58.8%	57.1%	53.6%	59.7%	64.6%			
Any Breastfeeding - Cesarean	95.9%	95.9%	96.7%	96.1%	97.7%			

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

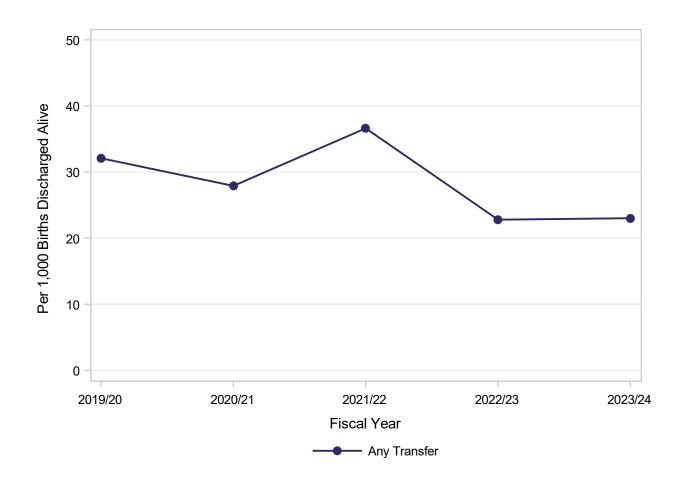
Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



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

			Fiscal Year		
	2019/20	2019/20 2020/21 2021/22			2023/24
All Births	27.0	24.0	24.0	23.0	26.0
Term Births	8.5	6.0	6.5	6.0	9.0
Preterm Births	32.0	31.0	28.5	30.0	31.0

Transfer to Another Hospital from the Birth AdmissionBirths in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

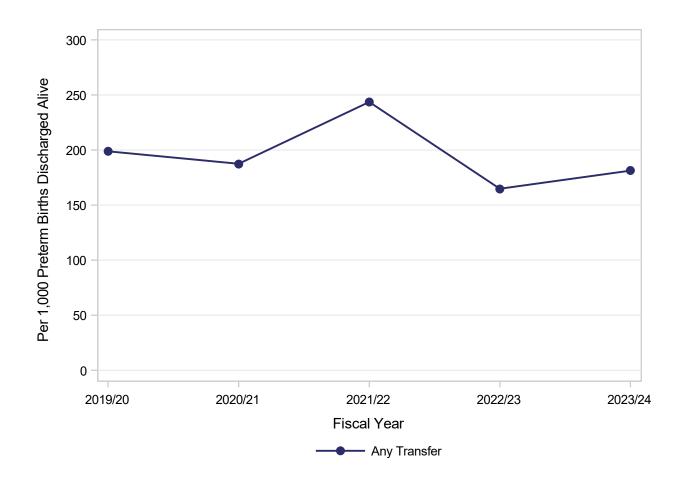


			Fiscal Year		
	2019/20	2020/21	2021/22	2022/23	2023/24
	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000
Any Transfer	32.1	27.9	36.6	22.8	23.0

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, 2019 - March 31, 2024

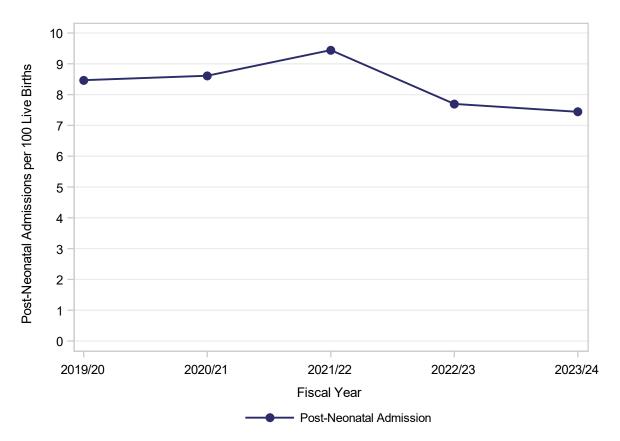


			Fiscal Year		
	2019/20	2020/21	2021/22	2022/23	2023/24
	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000
Any Transfer	198.8	187.5	243.6	164.8	181.3

Neonates may be transferred to another hospital for either maternal or neonatal indications. Includes transfers from an inpatient Birth Admission directly to another acute care facility. Definitions and specifications begin on Page 81 of this document.

Post-Neonatal Admissions

Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



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

	Fiscal Year							
Most Responsible Diagnosis	2019/20	2020/21	2021/22	2022/23	2023/24			
Jaundice	37.2%	42.4%	36.9%	37.9%	33.9%			
Low Birth Weight or Preterm Birth	20.6%	22.4%	29.9%	20.6%	24.7%			
Feeding Problems	3.7%	4.0%	3.1%	5.3%	7.7%			
Respiratory Distress	0.8%	1.0%	2.3%	2.5%	3.8%			
Isoimmunization	2.0%	2.6%	2.3%	7.2%	3.6%			
Respiratory Infections	3.0%	1.0%	2.3%	5.5%	3.4%			
Other Infections	3.3%	3.1%	2.0%	2.5%	2.5%			
Congenital Anomalies	12.8%	8.1%	7.3%	2.8%	2.0%			
Urinary Tract Infections	1.8%	2.1%	0.9%	1.3%	1.6%			
Apnea	1.8%	NR	0.8%	1.1%	1.1%			

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.

In-Hospital Perinatal Mortality

Births in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

	Fiscal Year					
	2019/20	2020/21	2021/22	2022/23	2023/24	
In-Hospital Perinatal Mortality	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	48.5	42.8	54.0	65.3	
Stillbirth Rate = Stillbirths >=500g / (Live Births + Stillbirths >=500g)	2.9	3.1	2.1	3.9	2.5	
Early Neonatal Mortality Rate = Early Neonatal Deaths / Live Births	3.9	3.9	2.5	2.8	3.2	
Perinatal Mortality Rate = Perinatal Deaths / (Live Births + Stillbirths >=500g)	6.9	7.0	4.6	6.7	5.7	
Late Neonatal Mortality Rate = Late Neonatal Deaths / Live Births	0.8	0.9	1.0	1.5	1.7	
Total Neonatal Mortality Rate = Total Neonatal Deaths / Live Births	4.8	4.8	3.5	4.2	4.9	
Post-Neonatal Mortality Rate = Post-Neonatal Deaths / Live Births	NR	0.7	NR	1.0	0.0	
Infant Mortality Rate = Infant Deaths / Live Births	5.3	5.5	4.0	5.2	4.9	

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.

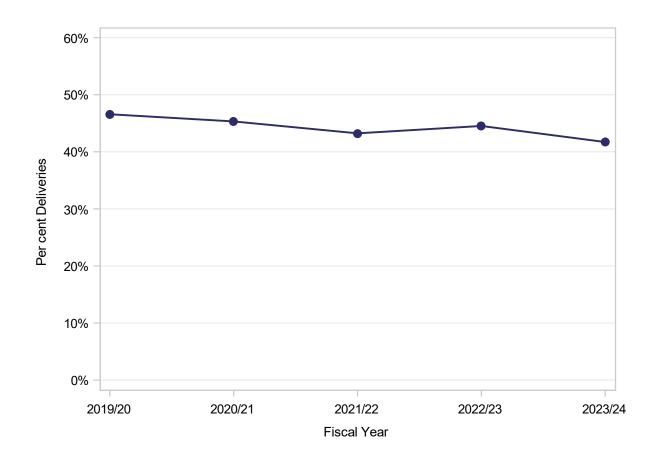
Section 3: Newborn Health.

Perinatal Health Report 2019/20 to 2023/24 Provincial Health Services Authority

Section 4: 'Normal Labour'

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



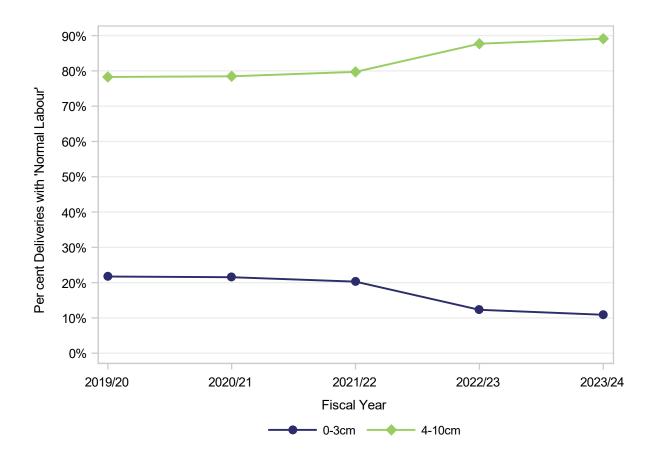
	Fiscal Year							
Health Authority	2019/20	2020/21	2021/22	2022/23	2023/24			
Provincial Health Services Authority	46.6%	45.3%	43.2%	44.5%	41.7%			

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

Cervical Dilation at Admission

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
Cervical Dilation at Admission	2019/20	2020/21	2021/22	2022/23	2023/24			
0-3cm	21.7%	21.5%	20.3%	12.3%	10.9%			
4-10cm	78.3%	78.5%	79.7%	87.7%	89.1%			
Missing	20.6%	25.7%	28.5%	36.6%	33.5%			

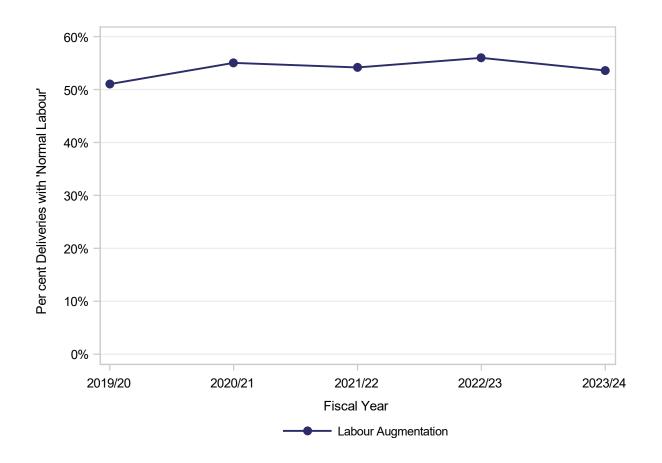
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks� gestation after spontaneous onset of labour.

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, 2019 - March 31, 2024



Labour Augmentation by Mode of Delivery

Deliveries with 'Normal Labour'

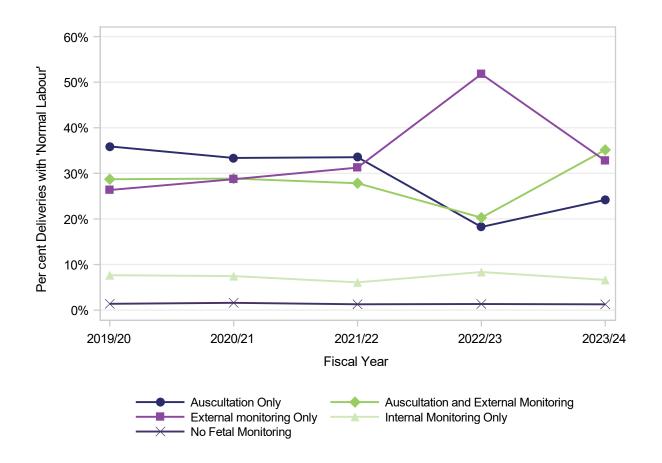
	Fiscal Year								
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24				
Spontaneous Vaginal	45.1%	48.7%	48.2%	49.3%	47.6%				
Assisted Vaginal	65.1%	68.9%	66.9%	76.2%	70.1%				
Cesarean	71.4%	72.3%	73.8%	76.1%	74.1%				

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� gestation after spontaneous onset of labour.

Method of Fetal Surveillance During Labour

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



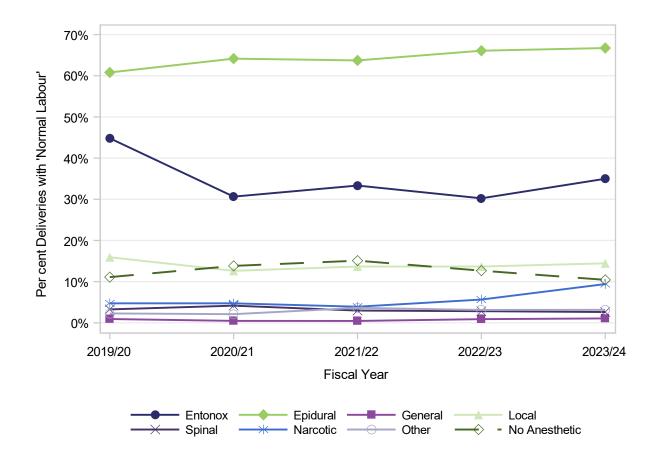
	Fiscal Year							
Method of Fetal Surveillance	2019/20	2020/21	2021/22	2022/23	2023/24			
Auscultation Only	35.9%	33.4%	33.5%	18.2%	24.2%			
Auscultation and External Monitoring	28.7%	28.8%	27.8%	20.3%	35.1%			
External Monitoring Only	26.3%	28.7%	31.3%	51.8%	32.8%			
Internal Monitoring Only	7.7%	7.5%	6.1%	8.4%	6.6%			
No Fetal Monitoring	1.4%	1.6%	1.3%	1.3%	1.3%			

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

Anesthesia and Analgesia During Labour and Delivery

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
Anesthesia or Analgesia	2019/20	2020/21	2021/22	2022/23	2023/24			
Entonox	44.8%	30.6%	33.3%	30.2%	35.0%			
Epidural	60.8%	64.2%	63.7%	66.1%	66.7%			
General	0.9%	0.5%	0.4%	0.9%	1.1%			
Local	15.9%	12.6%	13.7%	13.7%	14.4%			
Spinal	3.3%	4.2%	3.0%	2.8%	2.6%			
Combined Spinal and Epidural	-	-	-	NR	NR			
Other	2.3%	2.1%	3.6%	3.1%	3.2%			
No Anesthetic	11.1%	13.8%	15.1%	12.7%	10.4%			
Narcotic	4.7%	4.7%	3.9%	5.6%	9.4%			

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

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.

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

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024

	First Stage (Hours)					Second Stage (Hours)				
Mode of Delivery	19/20	20/21	21/22	22/23	23/24	19/20	20/21	21/22	22/23	23/24
Spontaneous Vaginal	5.6	5.3	5.5	7.4	7.3	0.6	0.6	0.6	0.6	0.7
Assisted Vaginal	9.0	8.8	8.3	11.8	12.4	2.5	2.4	2.5	2.3	2.1
Cesarean	9.8	9.8	10.8	12.0	13.5	4.1	3.7	3.8	3.7	3.4

	Antepartum LOS (Hours)			P	Postpartum LOS (Hours))	Total LOS (Hours)						
Mode of Delivery	19/20	20/21	21/22	22/23	23/24	19/20	20/21	21/22	22/23	23/24	19/20	20/21	21/22	22/23	23/24
Spontaneous Vaginal	5.3	5.1	5.1	5.1	4.1	34.4	33.4	34.1	35.9	34.8	40.3	38.8	40.3	41.3	39.8
Assisted Vaginal	10.2	9.9	9.8	10.1	8.6	46.9	44.3	43.2	44.8	44.1	59.0	55.8	54.3	56.3	52.4
Cesarean	12.2	12.0	11.9	11.9	11.0	62.4	56.0	54.8	56.1	54.4	75.5	67.3	65.7	68.3	65.6

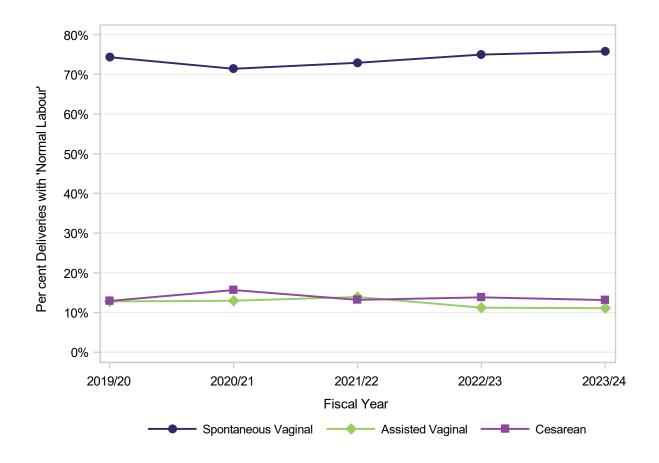
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks� gestation after spontaneous onset of labour.

Deliveries outside acute care facilities are excluded.

Mode of Delivery

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



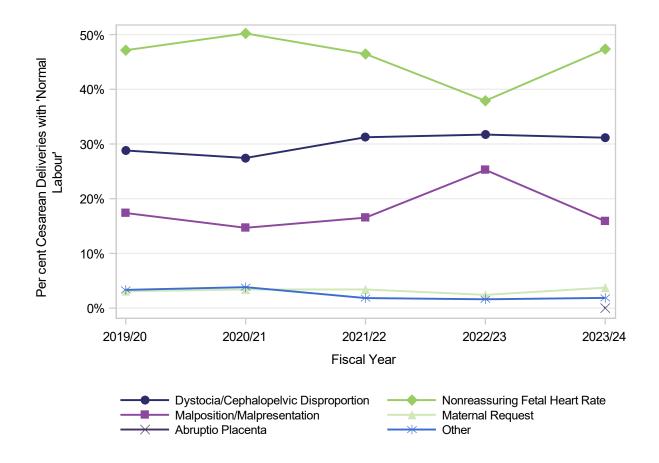
	Fiscal Year								
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24				
Spontaneous Vaginal	74.3%	71.4%	72.9%	75.0%	75.8%				
Assisted Vaginal	12.8%	13.0%	13.9%	11.2%	11.1%				
Cesarean	12.9%	15.7%	13.2%	13.8%	13.1%				

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� gestation after spontaneous onset of labour.

Primary Indication for Cesarean Delivery

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
Primary Indication for Cesarean Delivery	2019/20	2020/21	2021/22	2022/23	2023/24			
Dystocia/Cephalopelvic Disproportion	28.8%	27.4%	31.2%	31.7%	31.2%			
Nonreassuring Fetal Heart Rate	47.1%	50.2%	46.5%	37.9%	47.4%			
Malposition/Malpresentation	17.4%	14.7%	16.5%	25.3%	15.9%			
Maternal Request	3.1%	3.4%	3.4%	2.4%	3.7%			
Abruptio Placenta	NR	NR	NR	NR	0.0%			
Active Herpes	0.0%	NR	0.0%	NR	0.0%			
Other	3.3%	3.8%	1.8%	1.6%	1.9%			

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

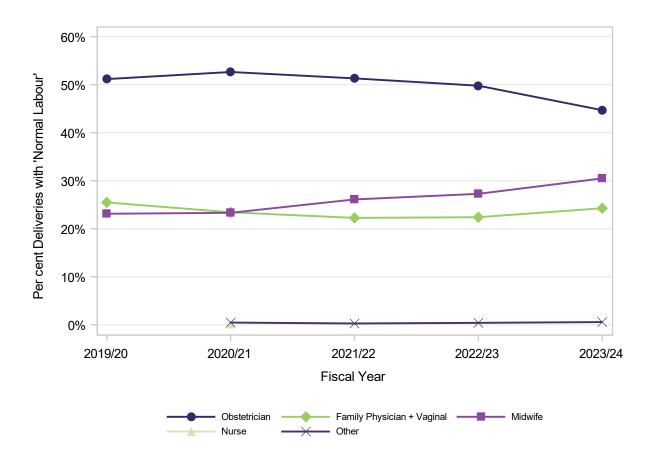
Selected indications are included in the figure; all indications are included in the table.

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

Delivery Provider

Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



	Fiscal Year							
Delivery Provider	2019/20	2020/21	2021/22	2022/23	2023/24			
Obstetrician	51.2%	52.6%	51.3%	49.8%	44.7%			
Surgeon	NR	NR	NR	NR	NR			
Family Physician + Cesarean	NR	NR	NR	NR	NR			
Family Physician + Vaginal	25.5%	23.4%	22.3%	22.4%	24.3%			
Midwife	23.1%	23.3%	26.1%	27.3%	30.5%			
Nurse	NR	0.2%	NR	NR	NR			
Other	NR	0.5%	0.3%	0.4%	0.6%			

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

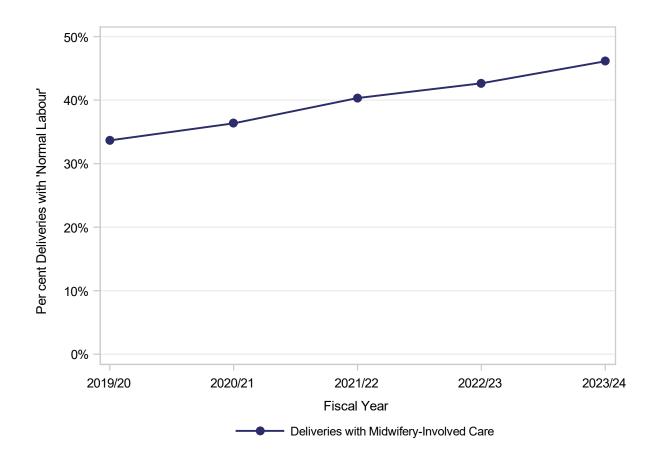
Describes the training level of the provider who delivered the baby. This may not be the same type of health care professional who provided antenatal care. NR: Rates and per cents based on numerators of 1 to 4 are not reported.

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, 2019 - March 31, 2024



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

		Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24					
Spontaneous Vaginal	34.4%	37.0%	41.0%	42.8%	47.0%					
Assisted Vaginal	29.8%	35.2%	38.3%	39.7%	42.8%					
Cesarean	33.1%	34.5%	38.8%	44.4%	43.6%					

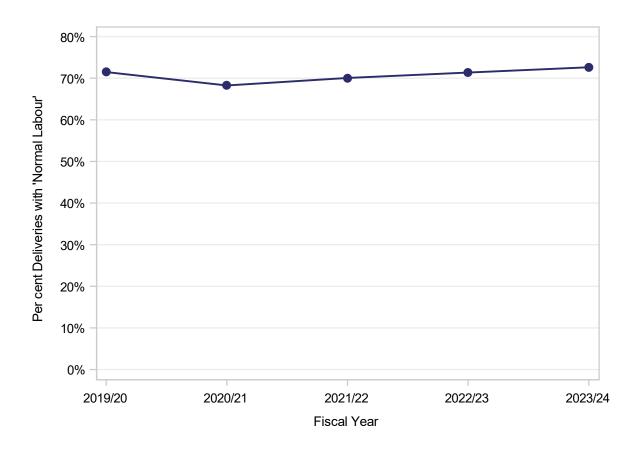
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks� gestation after spontaneous onset of labour.

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, 2019 - March 31, 2024



	Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24				
'Normal Childbirth'	71.5%	68.3%	70.1%	71.4%	72.6%				

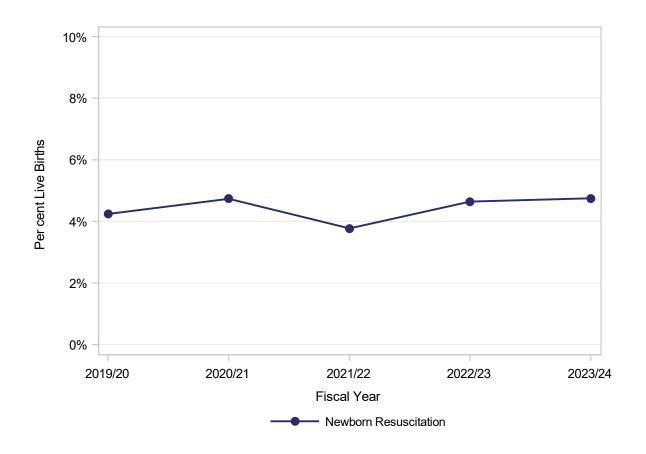
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks� gestation after spontaneous onset of labour.

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

Newborn Resuscitation

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



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

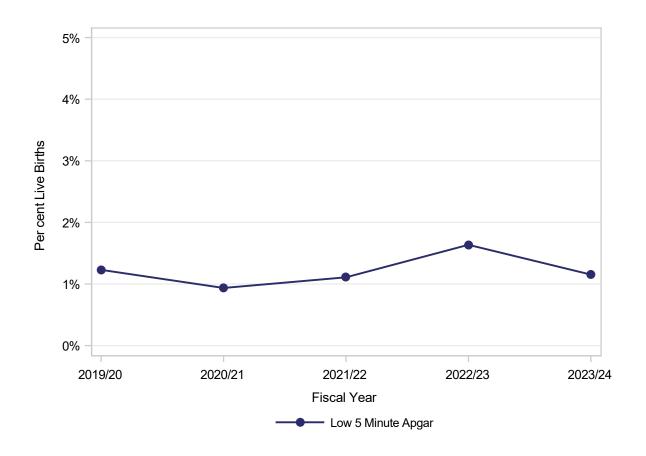
	Fiscal Year						
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Spontaneous Vaginal	2.8%	3.0%	2.6%	3.1%	3.0%		
Assisted Vaginal	7.0%	9.3%	6.7%	9.3%	7.4%		
Cesarean	9.8%	8.9%	7.1%	9.1%	12.5%		

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.

Low 5 Minute Apgar Score

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



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

	Fiscal Year						
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Spontaneous Vaginal	0.7%	0.5%	1.0%	1.2%	0.4%		
Assisted Vaginal	1.2%	2.1%	1.7%	1.7%	2.2%		
Cesarean	4.5%	1.9%	1.3%	4.0%	4.4%		

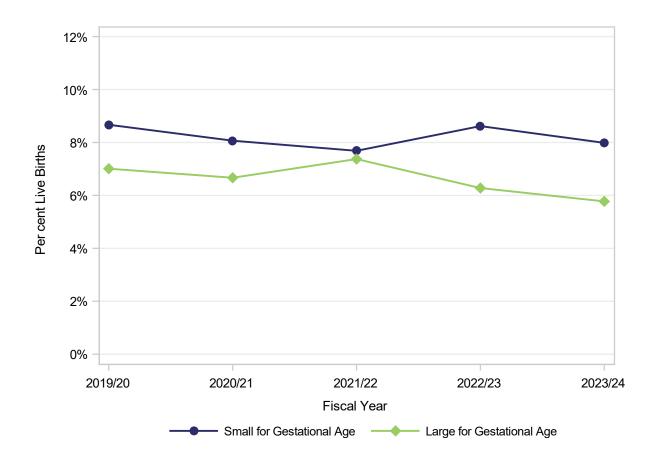
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks� gestation after spontaneous onset of labour.

Low 5 Minute Apgar Score defined as below 7 out of 10 at five minutes after birth.

Weight for Gestational Age

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



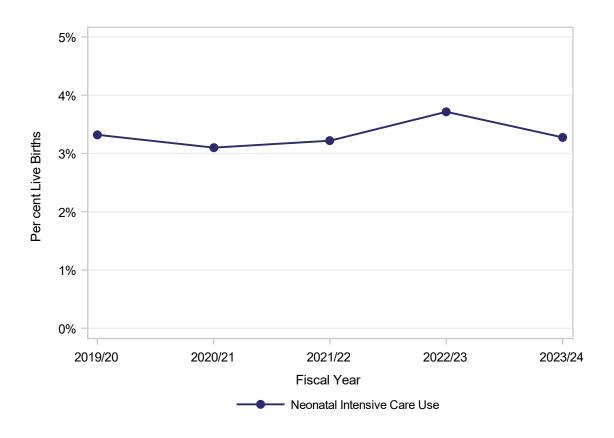
		Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24			
Small for Gestational Age	8.7%	8.1%	7.7%	8.6%	8.0%			
Large for Gestational Age	7.0%	6.7%	7.4%	6.3%	5.8%			

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

Neonatal Intensive Care Use During Birth Episode of Care

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Provincial Health Services Authority: April 1, 2019 - March 31, 2024



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

	Fiscal Year							
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24			
Spontaneous Vaginal	2.3%	2.1%	2.8%	2.6%	2.4%			
Assisted Vaginal	5.3%	4.4%	3.5%	4.6%	4.4%			
Cesarean	7.1%	6.6%	5.5%	8.9%	7.2%			

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

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
 - o For deliveries in the Provincial Health Services Authority, this represents women who are not residents of Vancouver Coastal.

Parity

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

Maternal Age at Delivery

Maternal age, in completed years, at delivery.

Antenatal Care Visits

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

Pre-Pregnancy Body Mass Index (BMI)

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

- Pre-pregnancy weight (kg)/(height (in cm))²
- 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 <u>quidelines</u> published by the Institute of Medicine.

Hypertensive Disorders of Pregnancy

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

- 1. <u>Eclampsia</u> mother had eclampsia diagnosed during pregnancy. Mother may have had pre-existing or gestational hypertension.
- 2. <u>HELLP</u> mother had HELLP syndrome (<u>H</u>emolysis, <u>E</u>levated <u>L</u>iver enzymes, and <u>L</u>ow <u>P</u>latelet count) diagnosed during pregnancy.
- 3. <u>Pre-Existing Hypertension with Pre-Eclampsia</u> mother had a documented hypertensive disorder before pregnancy and also had pre-eclampsia diagnosed in pregnancy.
- 4. <u>Pre-Eclampsia</u> mother had pre-eclampsia diagnosed during pregnancy. Mother may also have had gestational hypertension.

- 5. <u>Pre-Existing Hypertension</u> mother had a documented hypertensive disorder before pregnancy. Mother may also have had gestational hypertension.
- 6. 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

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

Substance Use During Pregnancy

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

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

Uptake of Prenatal Genetic Screening Program

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

Types of Down Syndrome and Trisomy 18 Screening Performed

 Calculated only for women who had prenatal genetic screening for trisomy 21 and 18 performed as offered by the <u>BC Prenatal Genetic Screening Program.</u>

- Indicates the 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.

- <u>Prelabour Rupture of Membranes</u> rupture of membranes before the onset of uterine contractions at term.
- <u>Post Dates</u> the pregnancy has continued past the due date (41 completed weeks gestation).
- <u>Hypertension in Pregnancy</u> woman had high blood pressure, including pre-existing or gestational hypertension.
- Other Maternal Condition woman had a condition other than those specified above.
- 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 Death of a fetus in the womb greater than 20 weeks.
- Logistics inability for woman to access supportive health care in reasonable time.
- <u>Antepartum Hemorrhage</u> woman had bleeding after 20 weeks' gestation but before labour.
- Chorioamnionitis woman had a cervicovaginal infection.
- Other other reason not captured above.

• <u>Unknown</u> – reason for induction is unclear, unknown, or not documented.

Fetal Surveillance During Labour

- Auscultation Only fetal surveillance was conducted only using intermittent auscultation.
- <u>Auscultation and External Electronic Monitoring</u> fetal surveillance was conducted using intermittent auscultation and external electronic fetal monitoring.
- External Electronic Monitoring Only fetal surveillance was conducted only using external electronic fetal monitoring.
- <u>Internal Electronic Monitoring Only</u> fetal surveillance was conducted only using internal electronic fetal monitoring.
- 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.
 - <u>Vacuum</u> the baby was delivered vaginally with the assistance of a vacuum extractor.
 - <u>Forceps</u> the baby was delivered vaginally with the assistance of forceps.
 - 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.
 - <u>Elective Primary</u> woman without a previous cesarean had a cesarean delivery with elective timing.
 - <u>Elective Repeat</u> woman with a history of cesarean delivery had a cesarean delivery with elective timing.
 - 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

- <u>Third or Fourth Degree Laceration</u> 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.
- <u>Nonreassuring Fetal Heart Rate</u> increased or decreased fetal heart rate (tachycardia or bradycardia), especially during and after uterine contractions.

- <u>Dystocia/Cephalopelvic Disproportion</u> abnormal of difficult labour. Includes failure to progress, incoordinate uterine activity, and cephalopelvic disproportion (large baby for maternal pelvis).
- <u>VBAC Declined/Maternal Request</u> woman was eligible for a vaginal birth after previous cesarean (VBAC) but declines, OR woman with or without a previous cesarean requests a cesarean delivery.
- <u>Breech</u> the fetus' buttocks were the presenting part.
- <u>Malposition/Malpresentation</u> the orientation of the fetal head and or body to the maternal pelvis is not favourable for a vaginal delivery (e.g. occipitoposterior position or transverse lie). Excludes breech presentation.
- <u>Placenta Previa</u> the placenta is low in the uterus, partially or completely covering the cervix.
- Abruptio Placenta premature separation of the placenta from the uterus.
- <u>Active Herpes</u> mother had an active herpes outbreak that could be transmitted to the infant during vaginal delivery.
- Other other reason not captured.
- <u>Unknown</u> 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.
- <u>VBAC Attempted</u> 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.
- <u>VBAC Success</u> women who were eligible for and attempted a VBAC and delivered vaginally.

Anesthetic/Analgesic Use During Labour and Delivery

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

- <u>Delivery Provider</u> describes the training level of the individual who delivered the baby. May not be the same type of care provider as a woman used for her antenatal care. In the case of multifetal pregnancies, the highest training level of any delivering provider is assigned to the delivery.
 - o Family Physician + Vaginal a family physician performed a vaginal delivery.

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

Length of Stay for Delivery Episode of Care

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

Maternal Morbidity

Morbidity may be documented during any Maternal Admission.

- <u>Liver Complications</u> mother had confirmed or suspected cholestatis, acute fatty liver, or liver hematoma.
- <u>Postpartum Hemorrhage with Transfusion</u> mother had a postpartum bleed and received blood products via transfusion.
- <u>Urinary Tract Infection</u> An infection usually caused by bacteria attacking the kidneys, ureters, bladder or urethra.
- 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.
- <u>HELLP</u> 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.

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

 Singleton baby at term ≥2,500 grams at birth without a congenital anomaly or hydrops was born at a facility without a NICU and transferred to a facility with a NICU within 24 hours, admitted to NICU ≥ 2 days, or had an Apgar at 5 minutes
 <7.

Maternal Transfer to Another Hospital

- Women may be transferred to another hospital for either maternal or neonatal indicatons.
 - NOTE: Effective April 1, 2014, women transferred directly to acute care from a delivery at home may be included in these transfer indicators. See page vi for more information.
- <u>Any Transfer</u> woman was transferred from the Delivery Admission to a(n) (different) acute care facility.

Post-Delivery Admissions

- Total number of eligible inter-hospital transfers or readmissions among women who
 delivered a baby. A woman can have more than one Post-Delivery Admission. Ratio of
 Post-Delivery Admissions per 100 deliveries.
 - Admissions with a most responsible diagnosis of Z76.3 (Healthy person accompanying sick person) are excluded.
- <u>Diagnosis associated with Post-Delivery Admission</u> the diagnosis that accounted for the majority of time the woman stayed in hospital. May not be the reason for admission. Per 100 Post-Delivery Admissions.
 - The following account for the majority of diagnoses associated with Post-Delivery Admissions for 2016/17 to 2020/21, 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
 - <u>Postpartum Infection</u> 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.
 - <u>Complications of Anesthesia</u> reactions to or complications of anesthesia.
 - <u>Care of Breasts</u> includes breast infection, lactation problems, or supervision of lactation mother.
 - Retained Placenta Without Hemorrhage Placenta is retained for greater than 60 minutes after the baby is delivered 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.

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

Multiple Gestation

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

Gestational Age

- <u>Term</u> baby was delivered at or after 37 completed weeks' estimated gestation.
- Preterm baby was delivered before 37 completed weeks' estimated gestation.
 - <u>latrogenic Preterm</u> 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

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

Low Birthweight Singletons

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

Newborn Resuscitation

- Baby received resuscitation by intermittent positive pressure, chest compressions, or drugs. Captures interventions up to 60 minutes of age or until admission to neonatal intensive care, whichever came first.
 - o 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.
- <u>Intracranial Hemorrhage</u> baby had a confirmed or suspected brain bleed.

Congenital Anomalies

Anomaly may be diagnosed during any Baby Admission.

- Baby has a confirmed or suspected congenital anomaly noted by a care provider.
 - <u>Chromosomal</u> includes Trisomy 13, 18, and 21; sex chromosome abnormalities (i.e. Turner's syndrome, Kleinfelter's syndrome); and other monosomies, deletions, and chromosomal rearrangements.
 - <u>Circulatory System</u> includes malformations of the heart chambers, septa, valves, veins and arteries.
 - <u>Cleft Lip or Palate</u> Types of oro-facial cleft that occurs when all or some of the tissue making up either the lip, or the roof of the mouth, or both does not form properly leaving an opening or split.
 - <u>Digestive System</u> includes malformation of the tongue, mouth, pharynx, esophagus, stomach, intestines, liver, gallbladder, bild ducts, and pancreas.
 - <u>Eye, Ear, Face, or Neck</u> includes malformations of the eye and its structures, tear ducts, internal and external ear, neck, and lips.
 - o <u>Genital Organs</u> includes malformations of male or female genitals, and indeterminate sex or hermaphroditism.
 - <u>Musculoskeletal System</u> includes malformations of hip, feet, fingers, limbs, skull, spine, diaphragmatic hernia, and other malformations of the abdominal wall (including gastroschisis).
 - <u>Nervous System</u> includes anencephaly, microcephaly, hydrocephalus, spina bifida, and other malformations of the brain and spinal cord.
 - Respiratory System includes malformation of the nose, larynx, trachea, bronchus, and lung.
 - o 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.
- <u>Non-Exclusive Breastfeeding</u> 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.

Ne onatal 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.
- <u>Any Transfer</u> baby was transferred from the Birth Admission to a different acute care facility.

Post-Neonatal Admissions

- <u>Post-Neonatal Admission</u> total number of baby transfer or readmission episodes. A
 baby can have more than one Post-Neonatal Admission. Ratio of Post-Neonatal
 Admissions per 100 live births.
 - Admissions with a most responsible diagnosis of Health supervision and care of other healthy infant and child, Healthy person accompanying sick person, or Other boarder in health-care facility (Z76.2, Z76.4, or Z76.4) are excluded.
- <u>Diagnosis Associated with Post-Neonatal Admission</u> the diagnosis that accounted for the majority of time the baby stayed in hospital. May not be the reason for admission. Per 100 Post-Neonatal Admissions.
 - The following account for the majority of diagnoses associated with Post-Neonatal Admissions for 2019/20 to 2023/24 inclusive:
 - Jaundice
 - Low Birth Weight or Preterm Birth
 - Feeding Problems includes reflux, feeding difficulties, abnormal weight loss, and dehydration.
 - <u>Congenital Anomalies</u> 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.
 - <u>Isoimmunization</u> The pregnant woman's immune system has antibodies against the fetus blood cells due to incompatibility between their blood types.
 - Apnea obstructed sleep apnea or apnea of the newborn.
 - <u>Urinary Tract Infections</u> An infection usually caused by bacteria attacking the kidneys, ureters, bladder or urethra.

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.
 - o 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.
- <u>Perinatal Death</u> 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.

- <u>Late Neonatal Death</u> baby born alive died in hospital between 7 and 27 days after birth.
 - <u>Late Neonatal Mortality Rate</u> = late neonatal death / live births x 1,000.
- Post Neonatal Death baby born alive died in hospital between 28 and 364 days after birth.
 - o Post Neonatal Mortality Rate = post neonatal death / live births x 1,000.
- Infant Death baby born alive died in hospital before 365 days after birth.
 - Infant Mortality Rate = (early neonatal + late neonatal + post-neonatal deaths) / live births x 1,000.

Section 4: 'Normal Labour'

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

Cervical Dilation at Admission

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

Duration of Labour Stages

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

'Normal Childbirth'

- According to the <u>Joint Policy Statement on Normal Childbirth</u>, 'Normal Childbirth' excludes the following: spinal anesthesia, general anesthesia, vacuum-assisted delivery, forceps-assited delivery, cesarean delivery, or episiotomy.
- Note: This document has been archived because it contains outdated information. It should not be consulted for clinical use, but for historical research only. Please visit the Society of Obstetricians and Gynaecologists of Canada (SOGC) website for the most recent guidelines.

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 ReportThis report is based on delivery admissions meeting the following minimum criteria:

Delivery Admission

Include:	
Delivery	MOTHER ADMISSION.screen source = "DL" AND
	April 1, 2019 ≤ discharge_date ≤ March 31, 2024
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 OR
	DIAGNOSES.diagnosis_cd begins with P96.4 (Baby) for all babies linked to mother

Other Maternal Admissions

Admission t	ype	Criteria
Maternal Adr	al Admission MOTHER_ADMISSION.screen_source = "DL" or "PP"	
		For any woman whose Delivery Admission meets the inclusion criteria, above.
Post-Delivery	y Admission	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</u> <u>Episode of</u>	Episode start	MOTHER_ADMISSION.screen_source = "DL" and April 1, 2019 ≤ discharge_date ≤ March 31, 2024
<u>Care</u>	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 t	ype	Criteria
Birth Admissi	<u>on</u>	BABY_ADMISSION.screen_source = "NB"
Navabagga Ada		For any baby linked to a woman whose Delivery Admission meets the inclusion criteria, above.
Newborn Adr	<u>nission</u>	BABY_ADMISSION.screen_source = "NB" or "XF"
		For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, above.
Post-Neonata	al Admission	(BABY_ADMISSION.screen_source = "NB" and MOTHER.actual_place_of_delivery=2) or BABY_ADMISSION.screen_source = "XF" AND
		most responsible diagnosis is not Z76.2, Z76.3, or Z76.4
		For any baby linked to a mother whose Delivery Admission meets the inclusion criteria, above.
<u>Birth</u>	Episode start	BABY_ADMISSION.screen_source = "NB"
Episode of	Include all admissions	BABY_ADMISSION.screen_source = "XF" and
<u>Care</u>	linked to the birth where:	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		
2019/20	screen_source = "DL" AND April 1, 2019≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2020	
2020/21	screen_source = "DL" AND April 1, 2020 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2021	
2021/22	screen_source = "DL" AND April 1, 2021≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2022	
2022/23	screen_source = "DL" AND April 1, 2022 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2023	
2023/24	screen_source = "DL" AND April 1, 2023 ≤ MOTHER_ADMISSION.discharge_date ≤ March 31, 2024	
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 diagnosis_code begins with O11
Pre-Existing Hypertension with Pre-Eclampsia			diagnosis_code begins with O11
Pre-Eclampsia	discharge_date < April 1, 2012 AND	AND	diagnosis_code begins with O14
	pp_hellp_syndrome ≠ "Y"		
	discharge_date ≥ April 1, 2012 AND	AND	diagnosis_code begins with O140, O141, or O149
	pp_hellp_syndrome ≠ "Y"		
Pre-Existing Hypertension			diagnosis_code begins with O10
Gestational Hypertension			diagnosis_code begins with O13
(includes mild pre-eclampsia for discharges			
before April 1, 2012)			
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"	<u> </u>	
Auscultation and External Electronic	auscultation = "Y" and		
Monitoring	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 ⊟ectronic Monitoring Only	auscultation ≠ "Y" and		
	elec_fetal_monitor_external ≠ "Y" and		
	elec_fetal_monitor_internal = "Y" and		
No Fetal Manitoring	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		
	UN	<u>i</u>	

	PDR variables		CIHI Codes
	(auscultation ≠ "Y" and		
	elec_fetal_monitor_internal ≠ "Y" and		
	elec_fetal_monitor_external ≠ "Y" and		
Dallar and Brand Jan	no_fetal_monitoring ≠ "Y")		
Delivery Provider			
Obstetrician	delivered_by = 2 or 6 for any infant		
Surgeon	else if delivered_by = 12 else if delivered_by = 1 or 8		
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	OR	doctor_service = 11004
	midw ife_case = "Y" or		on DOCTORS or PROCEDURES_PERFORMED for
	delivered_by = 3 or 7 for any infant or		mother or baby record
	actual_place_of_delivery = 1 or 2		
Delivery at Home	institution_id = 976 or 977 or		
	actual_place_of_delivery = 2		
Anesthesia or Analgesia			
Entonox	entonox_flg = "Y"		
Epidural	epidural_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	OR	diagnosis_code begins with O702 or O703
C			- ·
Episiotomy	laceration_degree = 3 or 4 episiotomy_flg = "Y"		
Cervical Tear	cervical tear flg = "Y"	OR	diagnosis_code begins with 0713
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,
		1	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
	<u>csection_type</u> = 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
⊟ective 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 ⊟igible	(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)	<u>.</u>	
	(vbac_eligible = "U" or " " and	AND	procedure_code begins with 5MD5
	baby_presentation_delivery = 9 and		
	gestational age ≥ 37 and		
	prev_cesarian_deliv ≥1 and		
VBAC Attempted	Maximum(baby_sequence) = 1)	<u> </u>	
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	AND	procedure code bogins with EMDS
V DAO SUUCESS	: '	AND	procedure_code begins with 5MD5
	(above)	<u>:</u>	

	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_w ound_infection = "Y"	ÖR	diagnosis_code begins with O860 or T814
Postpartum Hemorrhage with Transfusion	blood_transfusion_flg = "Y"	AND	diagnosis_code begins with 072
Postpartum Hemorrhage with Hysterectomy			diagnosis_code begins with 072
			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
A	bland transfer for all VIII and vialance of		procedure_code beginning with 1PL74, 1RS74, or 1RS80)
Antepartum Hemorrhage with Transfusion	blood_transfusion_flg = "Y" and risk_code = 8	ļ	
	blood_transfusion_flg = "Y"	AND	diagnosis_code begins with 0441, 045, 046, 067, or
Falson els			O694
Eclampsia HELLP	na halla avadassa – IIVII	<u> </u>	diagnosis_code begins with O15
HELLP	pp_hellp_syndrome = "Y"	, , , , , , , , , , , , , , , , , , ,	Parameter and the selection with OAAO
A	discharge_date ≥ April 1, 2012	AND	diagnosis_code begins with 0142
Anesthetic Complications			diagnosis_code begins with O29, O740, O741, O742, O743, O744, O747, O748, O749, O89, or T885
Shock		ļ	
Stroke			diagnosis_code begins with O751
		<u> </u>	diagnosis_code begins with G459, l6, or l7
Pulmonary Embolism Adverse Outcome of Labour or Delivery			diagnosis_code begins with O88
Moderate Maternal Adverse Outcome		OR	diamania anda hanina with 0700 an 0700
Moderate Maternal Adverse Outcome	screen_source = "DL" AND blood transfusion flg = "Y"	UK	diagnosis_code begins with O702 or O703 OR
	OR		procedure code begins with 5PC73JT, 5PC80JM,
	(laceration flg = "Y" AND		5PC91GA, or 5PC91GC
	laceration degree = 3 or 4)		OR
	laceration_degree = 3 or 4)		(diagnosis code begins with 0722
			AND
			procedure code begins with 1KT51, 1RM13, 1RM87LAGX,
			1RM89, 5MD60CB, 5MD60KE, 5MD60RC, 5MD60RD,
			5PC91HT, or 5PC91LA)
Moderate Neonatal Adverse Outcome	screen source = "NB" and	AND	diagnosis code does not begin with P832 or Q
	admission weight ≥ 2,500 and		<u> </u>
	gestational age ≥ 37 and		
	((nicu_ii+nicu_iii ≥ 2)		

	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_w eight ≥ 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_w eight ≥ 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 072
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 l100, 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 diagnosis_type = "M" and diagnosis_cd begins with F53
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_w eight ≥ 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"	ÖR	diagnosis_code begins with A40, A41, or P36
Intracranial Hemorrhage			diagnosis_code begins with P10 or P52
Respiratory Distress Syndrome			diagnosis_code begins with P220
Transient Tachypnea			diagnosis_code begins with P221
Other Respiratory Condition			diagnosis_code begins with A481, J, P228, P229, P23- P27, P280, P281, P282, P283, P284, P288, P289, Q30- Q34, Q791, R091, or Z902
	0 ≤ apgar_5_minutes <7	AND	diagnosis_code begins with P285
Any Neonatal Morbidity			diagnosis_code begins with A40, A41, A481, J, P10, P220, P221, P228, P229, P23-P27, P36, P280, P281, P282, P283, P284, P288, P289, P52, Q30-Q34, Q791, R091, or Z902
Canada Hal Anamadia	0 ≤ apgar_5_minutes <7	AND	diagnosis_code begins with P285
Congenital Anomalies			diamenta and backs with O
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		<u> </u>	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			idiagnosis code begins with Q30-Q34
Urinary System			diagnosis_code begins with Q60-Q64
Other Specific Anomaly			diagnosis_code begins with Q80-Q89
Newborn Length of Stay	For the Birth Episode of Care, hours between (discharge_date discharge_time - admission_date admission_time) where institution_id for the Birth Admission ≠ 976 or 977		
New born Feeding			
Exclusive Breastfeeding	new born_feeding = "BR"		
Non-Exclusive Breastfeeding	new born_feeding = "BF"		
No Breastfeeding	new born_feeding = "FR"		
Any Breastfeeding	new born_feeding = "BR" or "BF"		
Weight for Gestational Age			
Small for Gestational Age	Baby's weight is below the 10" percentile for gestational age and sex		

	PDR variables		CIHI Codes
	Based on gestational age, sex,		
	multiple_birth_count, and admission_w eight		
	w here		
	screen_source = "NB" and sex = "M" or "F"		
Large for Gestational Age	Baby's weight is above the 90 ¹¹ percentile for		
	gestational age and sex		
	Based on gestational age, sex,		
	multiple_birth_count, and admission_w eight		
	w here		
	screen_source = "NB" and sex = "M" or "F"		
Low Birthweight Singletons	screen_source = "NB" and		
	5 ≤ admission weight < 2500 and		
	stillbirth = "N" and		
	multiple birth count = 1		
Premature Birth			
Spontaneous Preterm	gestational age <37 and labour spont flg = "Y"		
•	gestational age <37 and	•••••	
	labour none flg = "Y" and		
	(cesarean type = 0	OR	Mother does not have a procedure code beginning with
	`		5MD60)
latrogenic Preterm	gestational age <37 and		
-	labour ind flg = "Y"		
	gestational age <37 and		
	labour_none_flg = "Y" and		
	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
	chest_compress_flg = "Y" or		
	drugs = "Y"		
Post-Neonatal Admission Diagnoses			
Jaundice	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with P58, P59, or R17
Low Birth Weight or Preterm Birth	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with P07
Congenital Anomalies	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with G901, P293, or Q
Feeding Problems	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with K21, P741, P7881, P92, R633, or R634
Respiratory Infections	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with A37, J00-J06, J12-J18, J20-J22, or P23
Respiratory Distress	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with P22
Other Infections	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with A (except A37), B, H60-H66, K61, L0, M86, P027, P35-P38, P39 (except P393), P77, R572, T802, T814, T827, or T835
Apnea	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with G4730, P283, P284, or R068
Urinary Tract Infections	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with N390 or P393
Isoimmunization			diagnosis_type = "M" and diagnosis_cd begins with P55
"Normal Labour"	labour_spont_flg = "Y" and prev_cesarian_deliv = 0 and multiple_birth_count = 1 and baby_presentation_delivery = 6 and gestational age is between 37 and 41		
"Normal Childbirth"	general_flg ≠ "Y" and spinal_flg ≠ "Y" and episiotomy_flg ≠ "Y"	AND	procedure_code does not begin w ith 5MD53, 5MD54, 5MD55, 5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC, 5MD56PF, 5MD56PJ, or 5MD60 AND anesthetic_type ≠ 1, 2, or 4 for a procedure_code beginning w ith 5MD
Cervical Dilation on Admission			
0-3cm	0 ≤ cervical_dilation_on_admis < 4		
4-10cm	cervical_dilation_on_admis ≥ 4		
Unknow n	cervical_dilation_on_admis = null		
Duration of Labour Stages			
Duration of First Stage	hours between (second_stage_date second_stage_time - first_stage_date first_stage_time) w here first_stage_date and second_stage_date ≠ null and labour none flg ≠ "Y"		

	PDR variables	CIHI Codes
Duration of Second Stage	hours between (delivery_date delivery_time -	
	second_stage_date second_stage_time)	
	w here	
	second_stage_date ≠ null and	
	labour_none_flg ≠ "Y"	
Low Apgar Score	0 ≤ apgar_5_minutes <7	

Gestational Age Algorithm

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

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

- 1. If LMP* is recorded and there is no EUS, use GA from LMP.
- 2. If LMP is recorded, there is no EUS[^], but clinical exam of baby gives a GA at least 3 weeks different than LMP, use GA from newborn clinical exam.
- 3. If LMP is recorded and equal to GA in weeks from EUS at <14 weeks, use GA from LMP. If estimates are not equal, use GA from EUS.
- 4. If LMP is recorded and within 1 week of GA from EUS at 14-20 weeks, use GA from LMP. If difference is more than 1 week, use GA from EUS.
- 5. If LMP is not recorded but GA from EUS <20 weeks is recorded, use GA from EUS.
- 6. If LMP and EUS are not recorded, use GA from newborn clinical exam.
- 7. If LMP, EUS, and newborn clinical exam are not recorded, use GA from chart documentation.
- 8. If all are missing or out of range, GA is missing.
- § Completed weeks of gestation is a term used in the estimated age of the fetus calculated from the first day of the LMP or US. A completed week increments at 7-day intervals. For instance 37 completed weeks includes the time span from 37 weeks and 0 days to 37 weeks and 6 days.
- * only LMP estimates of 15-45 weeks are considered. All others are treated as missing.
- ^ only GA estimates of 17-43 weeks from EUS are considered. All others are treated as missing.
- ** Algorithm for the Estimation of Gestational Age, Canadian Perinatal Surveillance System, 2010.
- SOGC Clinical Practice Guideline No. 20, June 2011. Ultrasound in twin pregnancy. SOGC Clinical Practice Guideline No. 214, Sept. 2008. Guidelines for the management of pregnancy at 41+0 to 42+0 weeks.

Bennett, K.A. et. al. First trimester ultrasound screening is effective in reducing postterm labor induction rates: A randomized controlled trial.