

Perinatal Health Report

Interior Health 2023/24



Publication Information

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General Notes

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

Records used to generate this report meet the following conditions:

- Mother delivery and baby newborn records must be linked. Unlinked mother delivery or newborn records are excluded (<0.2% of babies are not linked to a mother).
- Complete late terminations are excluded from all indicators except the Crude Stillbirth Rate; pregnancies involving selective fetal reduction are retained.
- Mother's delivery record has a discharge date between April 1, 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 98 and 99) 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 attended by a registered midwife, admissions to acute care for delivery, and postpartum readmissions or transfers within 42 days of delivery.

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

Post-Delivery Admission¹

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

Birth Admission¹

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

Birth Episode of Care

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

Baby Admission

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

Post-Neonatal Admission¹

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

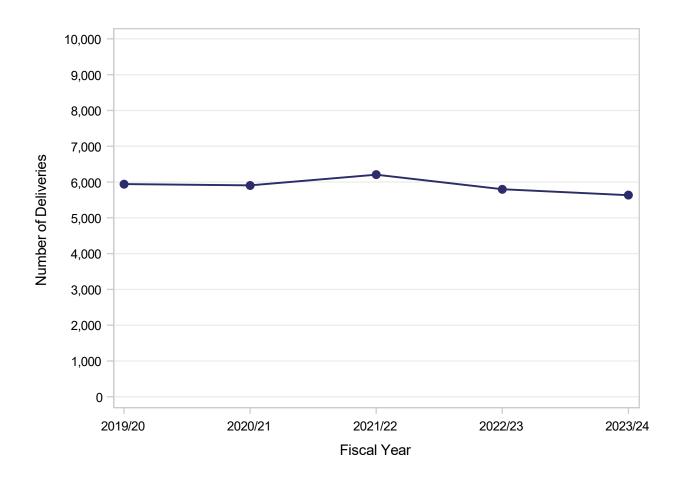
¹NOTE: Until March 31, 2014, if a woman who delivered at home with a registered midwife was admitted to acute care within 24 hours of delivery, the acute care admission was her Delivery Admission and the transfer was not recorded. Effective April 1, 2014, all deliveries at home with a registered midwife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

Perinatal Health Report 2019/20 to 2023/24 Interior Health

Section 1: Maternal Health

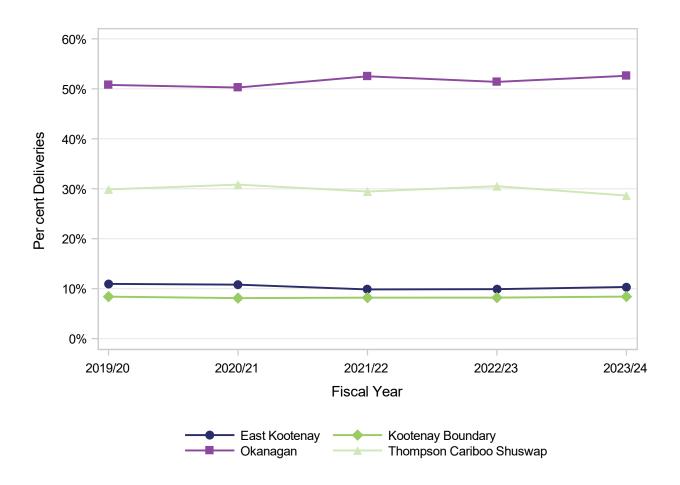
Total Deliveries

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Interior Health	5,943	5,907	6,205	5,799	5,632		

Deliveries by Facility Health Service Delivery AreaDeliveries in Interior Health: April 1, 2019 - March 31, 2024

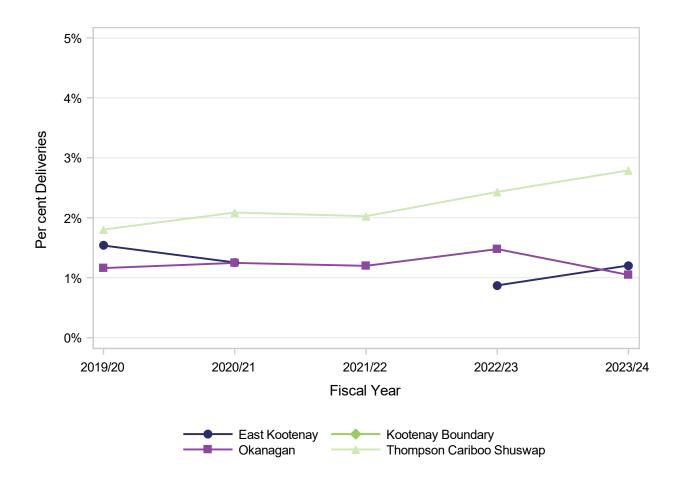


		Fiscal Year										
	201	2019/20 2020/21		2021/22		2022/23		2023/24				
Facility Health Service Delivery Area	Count	Per cent	Count	Per cent	Count	Per cent	Count	Per cent	Count	Per cent		
East Kootenay	651	11.0%	638	10.8%	611	9.8%	574	9.9%	582	10.3%		
Kootenay Boundary	499	8.4%	479	8.1%	509	8.2%	476	8.2%	474	8.4%		
Okanagan	3,018	50.8%	2,969	50.3%	3,258	52.5%	2,980	51.4%	2,963	52.6%		
Thompson Cariboo Shuswap	1,775	29.9%	1,821	30.8%	1,827	29.4%	1,769	30.5%	1,613	28.6%		

Definitions and specifications begin on Page 84 of this document.

Deliveries to Residents of Other Health Authorities

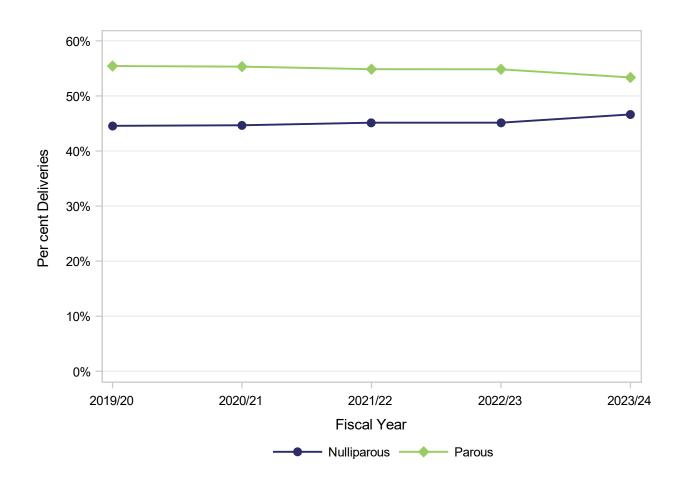
Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year							
Facility Health Service Delivery Area	2019/20	2020/21	2021/22	2022/23	2023/24			
East Kootenay	1.5%	1.3%	NR	0.9%	1.2%			
Kootenay Boundary	NR	NR	NR	NR	NR			
Okanagan	1.2%	1.2%	1.2%	1.5%	1.0%			
Thompson Cariboo Shuswap	1.8%	2.1%	2.0%	2.4%	2.8%			

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

Deliveries by ParityDeliveries in Interior Health: April 1, 2019 - March 31, 2024

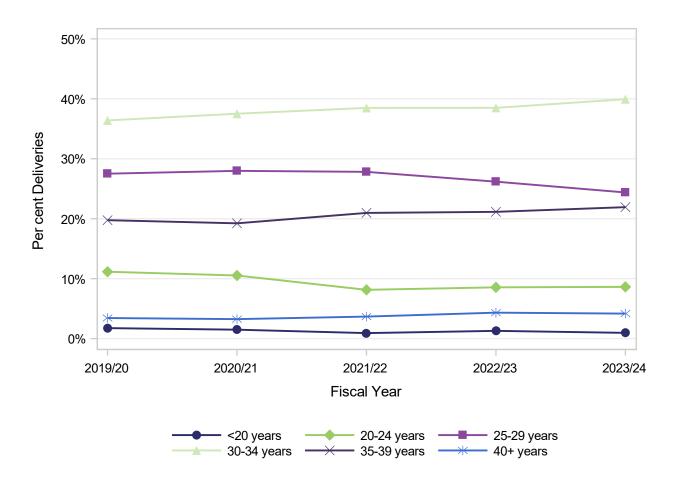


Average and Median Maternal Age at Delivery by Parity

	Fiscal Year									
	2019/20		2020	/21	2021	/22	2022	/23	2023	/24
Parity	Average	Median	Average	Median	Average	Median	Average	Median	Average	Median
All	31.0	31.2	31.1	31.2	31.5	31.7	31.6	31.7	31.8	32
Nulliparous	29.6	29.8	29.9	30.0	30.3	30.4	30.3	30.5	30.5	30.7
Parous	32.1	32.2	32.1	32.2	32.5	32.8	32.6	32.8	32.9	33

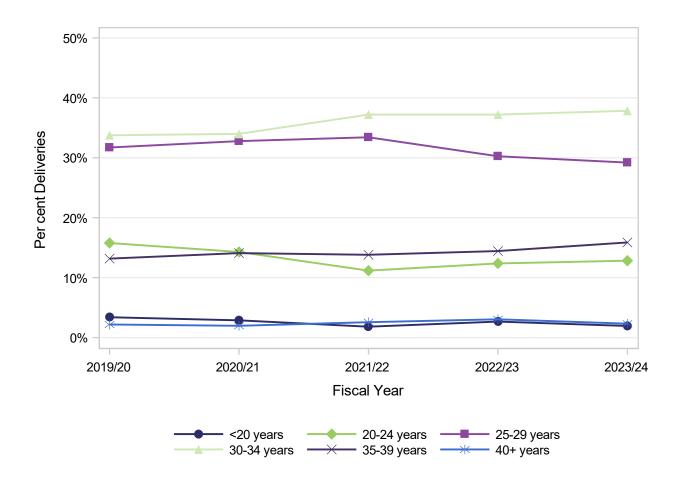
Definitions and specifications begin on Page 84 of this document.

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



	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	1.7%	1.5%	0.9%	1.3%	1.0%		
20-24 years	11.2%	10.5%	8.1%	8.6%	8.6%		
25-29 years	27.5%	28.0%	27.8%	26.2%	24.4%		
30-34 years	36.4%	37.5%	38.5%	38.5%	39.9%		
35-39 years	19.8%	19.2%	21.0%	21.1%	21.9%		
40+ years	3.4%	3.3%	3.7%	4.3%	4.2%		

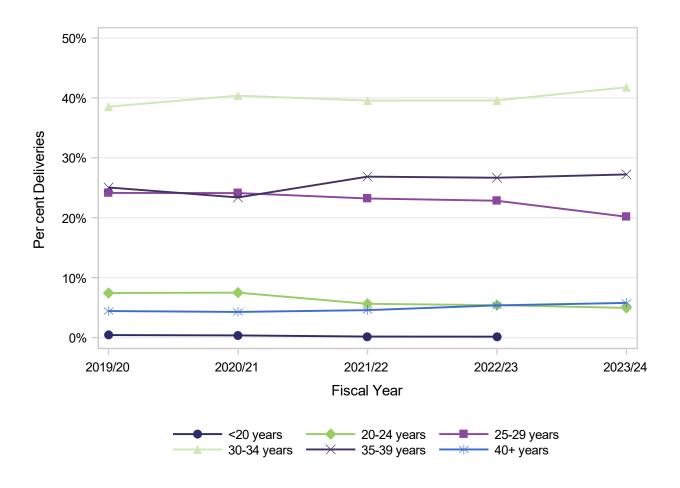
Maternal Age at Delivery Nulliparous Women Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	3.4%	2.9%	1.8%	2.7%	1.9%		
20-24 years	15.8%	14.3%	11.2%	12.4%	12.8%		
25-29 years	31.7%	32.8%	33.4%	30.3%	29.2%		
30-34 years	33.7%	34.0%	37.2%	37.2%	37.8%		
35-39 years	13.2%	14.1%	13.8%	14.4%	15.9%		
40+ years	2.2%	2.0%	2.6%	3.1%	2.3%		

Maternal Age at Delivery Parous Women

Deliveries in Interior Health: April 1, 2019 - March 31, 2024

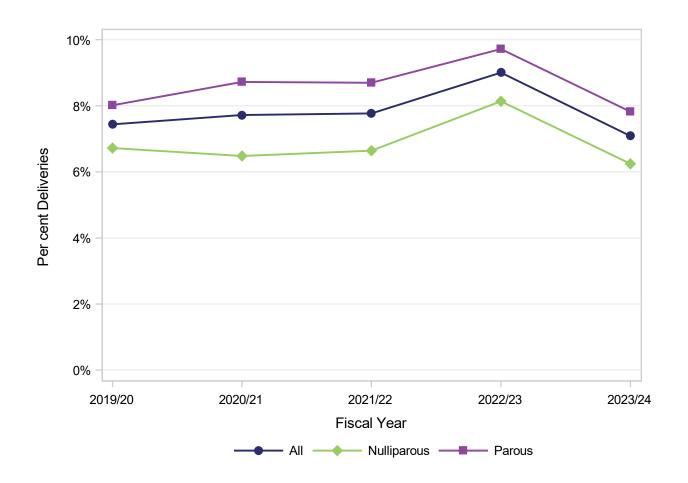


	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	0.4%	0.4%	0.2%	0.2%	NR		
20-24 years	7.4%	7.5%	5.6%	5.4%	5.0%		
25-29 years	24.1%	24.1%	23.2%	22.8%	20.2%		
30-34 years	38.5%	40.4%	39.5%	39.6%	41.8%		
35-39 years	25.0%	23.4%	26.9%	26.7%	27.2%		
40+ years	4.4%	4.3%	4.6%	5.4%	5.8%		

Antenatal Care Visits

Deliveries in Interior Health: April 1, 2019 - March 31, 2024

Deliveries with <5 Antenatal Care Visits by Parity

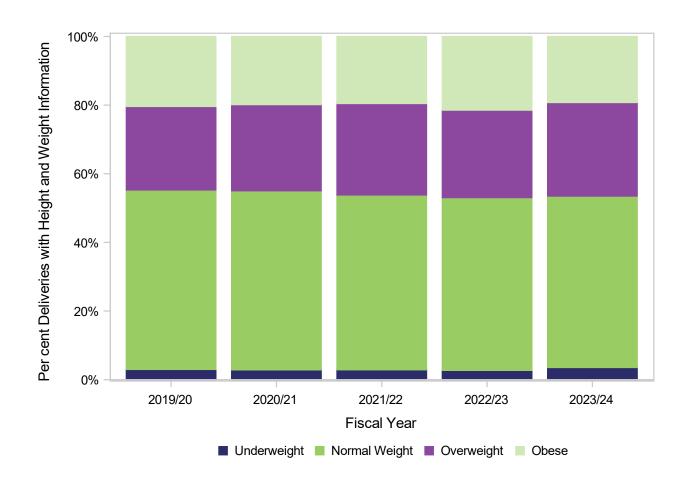


Deliveries with <5 Antenatal Care Visits or Missing Number of Visits

	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
<5 Visits	7.4%	7.7%	7.8%	9.0%	7.1%			
Missing Visits	5.9%	5.3%	5.8%	7.1%	11.9%			

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

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

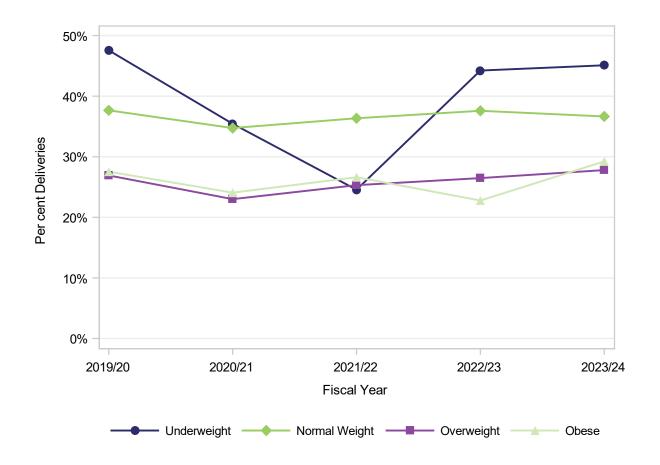


Distribution of Pre-Pregnancy BMI Among ALL Deliveries

	Fiscal Year						
BMI Category	2019/20	2020/21	2021/22	2022/23	2023/24		
Underweight	2.3%	2.2%	2.2%	2.2%	2.9%		
Normal Weight	40.1%	40.7%	38.4%	40.0%	40.7%		
Overweight	18.6%	19.6%	20.1%	20.2%	22.2%		
Obese	15.6%	15.5%	14.7%	17.1%	15.7%		
BMI Missing	23.4%	22.1%	24.6%	20.5%	18.4%		

Definitions and specifications begin on Page 84 of this document.

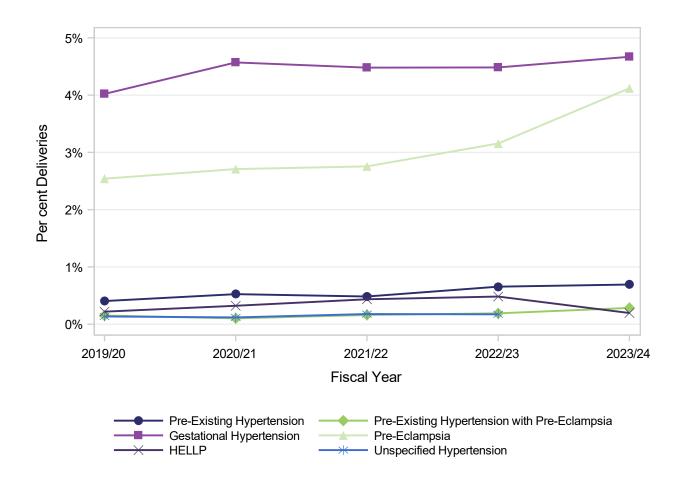
Appropriate* Weight Gain During Pregnancy by Pre-Pregnancy Body Mass Index (BMI) Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
BMI Category	2019/20	2020/21	2021/22	2022/23	2023/24		
Underweight	47.6%	35.4%	24.6%	44.2%	45.1%		
Normal Weight	37.7%	34.7%	36.4%	37.6%	36.7%		
Overweight	26.9%	23.0%	25.3%	26.5%	27.8%		
Obese	27.5%	24.1%	26.6%	22.8%	29.2%		

^{*} As defined by the Institute of Medicine. Data are limited to deliveries with complete height and weight information (45% of deliveries in 2023/24). Definitions and specifications begin on Page 84 of this document.

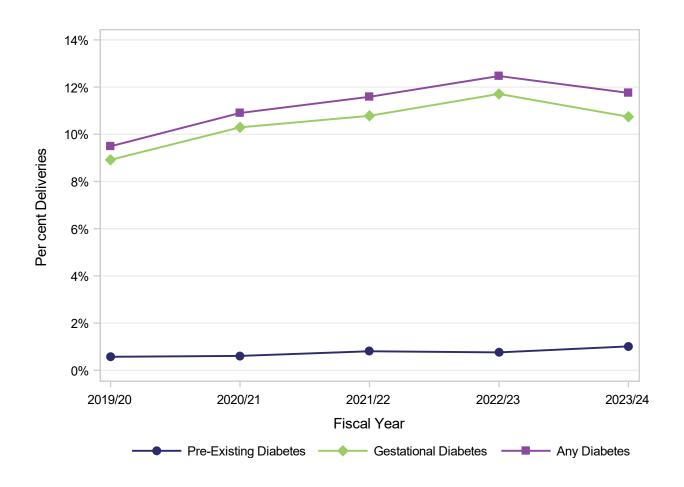
Hypertensive Disorders of Pregnancy Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
Type of Hypertension	2019/20	2020/21	2021/22	2022/23	2023/24	
No Hypertension	92.5%	91.6%	91.5%	90.8%	89.9%	
Pre-Existing Hypertension	0.4%	0.5%	0.5%	0.7%	0.7%	
Pre-Existing Hypertension with Pre-Eclampsia	0.2%	0.1%	0.2%	0.2%	0.3%	
Gestational Hypertension	4.0%	4.6%	4.5%	4.5%	4.7%	
Pre-Eclampsia	2.5%	2.7%	2.8%	3.2%	4.1%	
HELLP	0.2%	0.3%	0.4%	0.5%	0.2%	
Eclampsia	NR	NR	NR	NR	NR	
Unspecified Hypertension	0.1%	0.1%	0.2%	0.2%	NR	

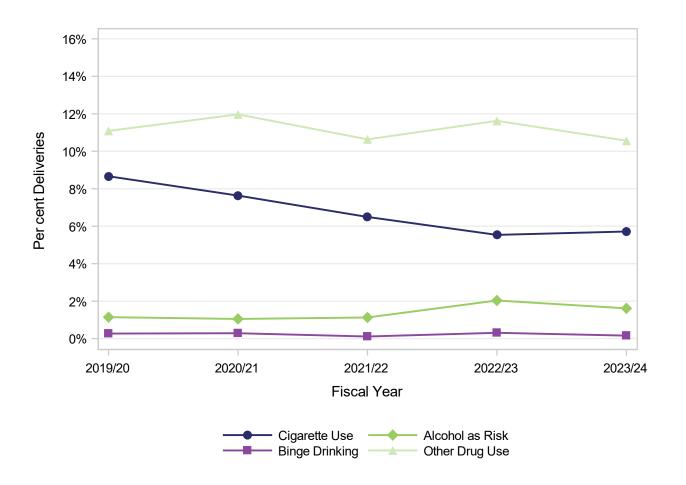
NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Diabetes Mellitus in PregnancyDeliveries in Interior Health: April 1, 2019 - March 31, 2024



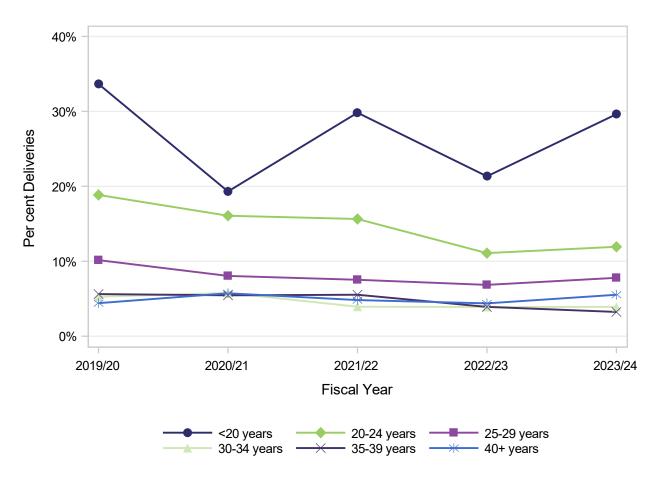
	Fiscal Year						
Type of Diabetes	2019/20	2020/21	2021/22	2022/23	2023/24		
Pre-Existing Diabetes	0.6%	0.6%	0.8%	0.8%	1.0%		
Gestational Diabetes	8.9%	10.3%	10.8%	11.7%	10.7%		
Any Diabetes	9.5%	10.9%	11.6%	12.5%	11.8%		

Substance Use During PregnancyDeliveries in Interior Health: April 1, 2019 - March 31, 2024



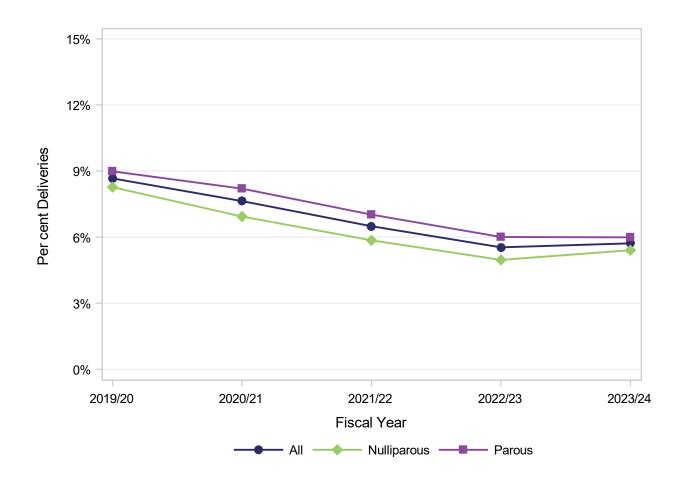
	Fiscal Year							
Substance	2019/20	2020/21	2021/22	2022/23	2023/24			
Cigarette Use	8.7%	7.6%	6.5%	5.5%	5.7%			
Alcohol as Risk	1.1%	1.0%	1.1%	2.0%	1.6%			
Binge Drinking	0.3%	0.3%	0.1%	0.3%	0.2%			
Other Drug Use	11.1%	12.0%	10.6%	11.6%	10.6%			

Cigarette Use at Any Time During Pregnancy by Maternal Age Deliveries in Interior Health: April 1, 2019 - March 31, 2024



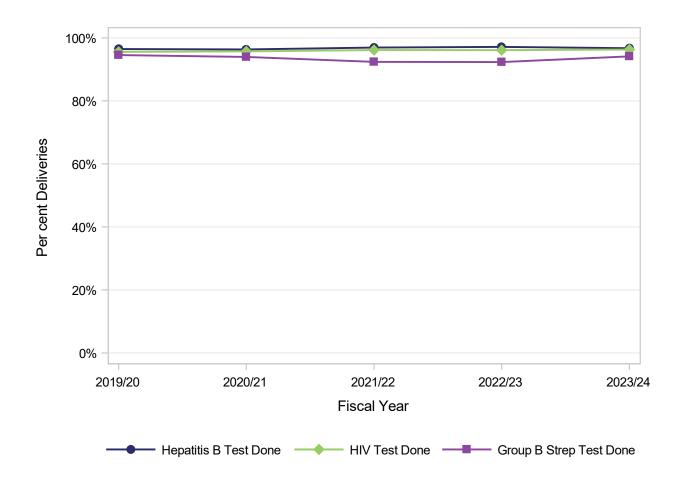
	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	33.7%	19.3%	29.8%	21.3%	29.6%		
20-24 years	18.9%	16.1%	15.6%	11.1%	11.9%		
25-29 years	10.2%	8.0%	7.5%	6.9%	7.8%		
30-34 years	5.3%	5.8%	3.9%	3.9%	3.9%		
35-39 years	5.6%	5.5%	5.5%	3.9%	3.2%		
40+ years	4.4%	5.7%	4.8%	4.4%	5.5%		

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



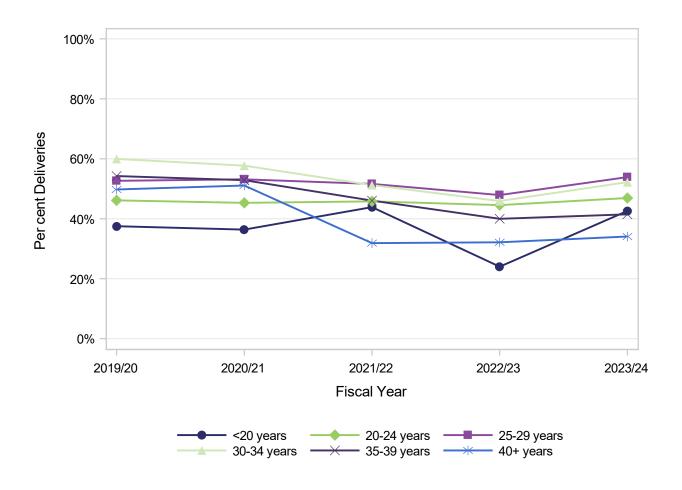
	Fiscal Year						
Parity	2019/20	2020/21	2021/22	2022/23	2023/24		
All	8.7%	7.6%	6.5%	5.5%	5.7%		
Nulliparous	8.3%	6.9%	5.9%	5.0%	5.4%		
Parous	9.0%	8.2%	7.0%	6.0%	6.0%		

Maternal Screening Tests
Deliveries in Interior Health: 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	96.4%	96.3%	96.9%	97.1%	96.7%		
HIV Test Done	95.6%	95.7%	96.1%	96.1%	96.3%		
Group B Strep Test Done	94.5%	93.9%	92.4%	92.3%	94.1%		

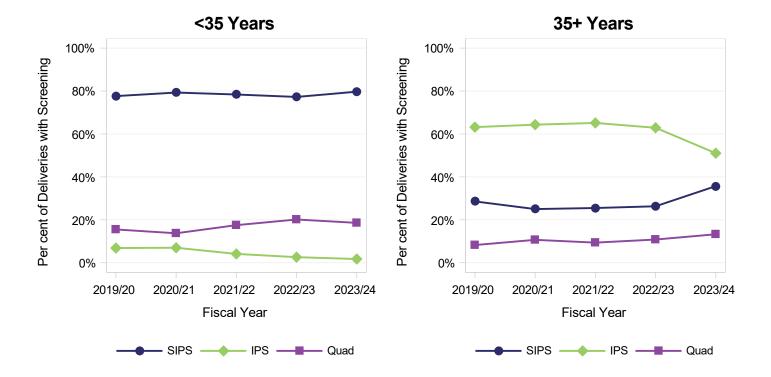
Uptake of Prenatal Genetic Screening by Maternal Age Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24		
<20 years	37.5%	36.4%	43.9%	24.0%	42.6%		
20-24 years	46.1%	45.3%	45.8%	44.5%	46.9%		
25-29 years	52.6%	53.1%	51.6%	47.9%	53.9%		
30-34 years	59.9%	57.7%	51.2%	45.9%	52.2%		
35-39 years	54.2%	52.9%	46.0%	40.0%	41.5%		
40+ years	49.8%	51.1%	31.9%	32.1%	34.1%		

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

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



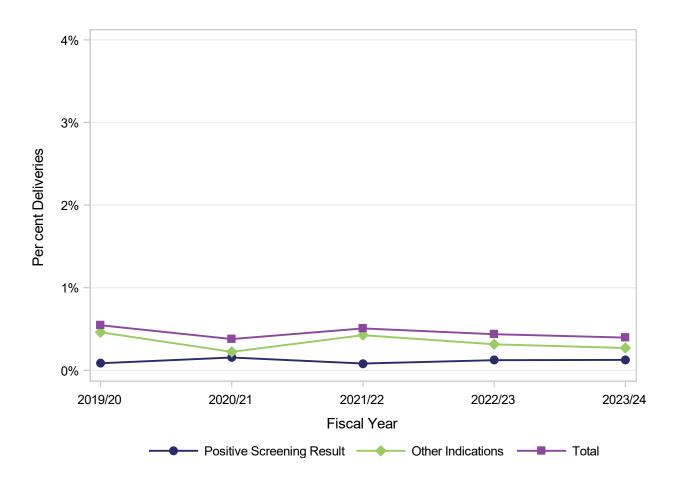
		Fiscal Year					
Maternal Age	Types of Screening	2019/20	2020/21	2021/22	2022/23	2023/24	
	SIPS	77.6%	79.3%	78.4%	77.2%	79.7%	
<35 years	IPS	6.8%	7.0%	4.1%	2.6%	1.7%	
	Quad	15.5%	13.7%	17.5%	20.2%	18.6%	
	SIPS	28.6%	25.0%	25.5%	26.3%	35.7%	
35+ years	IPS	63.2%	64.3%	65.1%	62.9%	51.0%	
	Quad	8.2%	10.7%	9.4%	10.8%	13.3%	

SIPS, IPS, and Quad are publicly-funded Down syndrome screenings performed as part of the BC Prenatal Genetic Screening Program. Data are limited to singleton deliveries with Down syndrome screening performed (52% of all deliveries in 2023/24).

Click here for information on the BC Prenatal Genetic Screening Program

Definitions and specifications begin on Page 84 of this document.

Uptake of Invasive Diagnostic Testing by IndicationDeliveries in Interior Health: April 1, 2019 - March 31, 2024



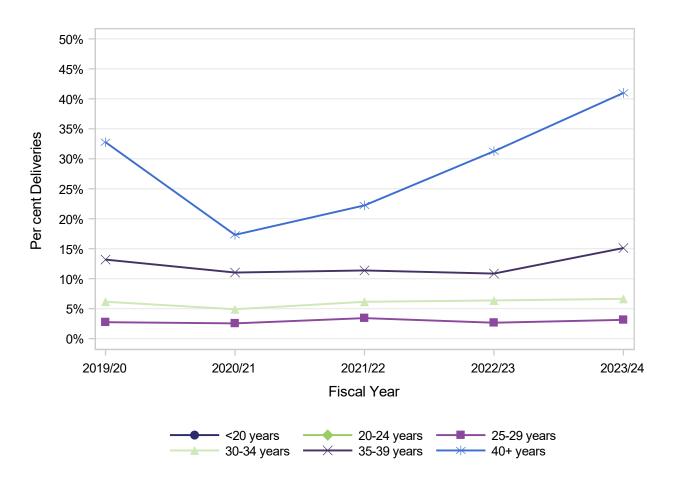
	Fiscal Year							
Invasive Diagnostic Testing Indication	2019/20	2020/21	2021/22	2022/23	2023/24			
Positive Screening Result	0.1%	0.2%	0.1%	0.1%	0.1%			
Other Indications	0.5%	0.2%	0.4%	0.3%	0.3%			
Total	0.5%	0.4%	0.5%	0.4%	0.4%			

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

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

Definitions and specifications begin on Page 84 of this document.

Use of Artificial Reproductive Technology Nulliparous Women by Age Deliveries in Interior Health: April 1, 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	2.7%	2.5%	3.4%	2.7%	3.1%		
30-34 years	6.2%	4.9%	6.1%	6.4%	6.6%		
35-39 years	13.2%	11.0%	11.4%	10.8%	15.1%		
40+ years	32.8%	17.3%	22.2%	31.3%	41.0%		

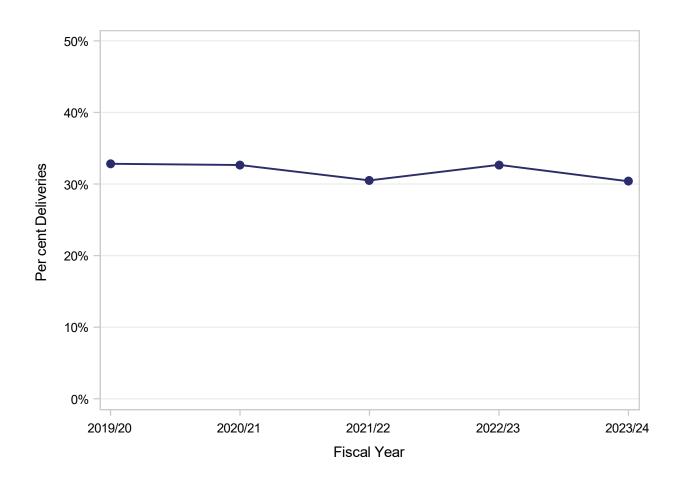
NR: Rates and per cents based on numerators of 1 to 4 are not reported. Definitions and specifications begin on Page 84 of this document.

Section 1: Maternal Health.

Perinatal Health Report 2019/20 to 2023/24 Interior Health

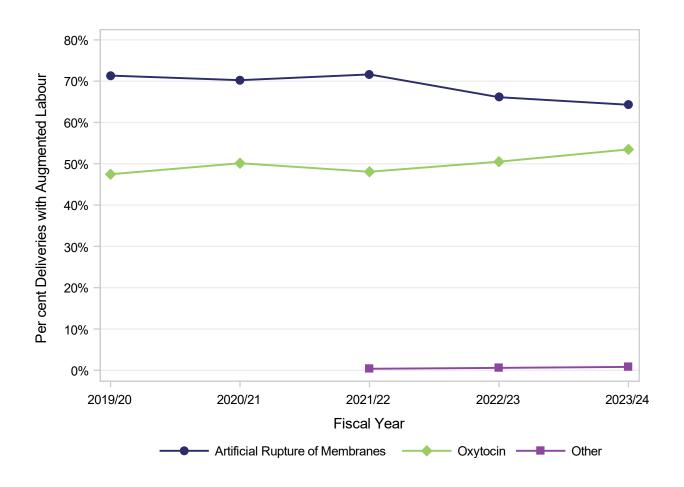
Section 2: Labour and Delivery

Labour AugmentationDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Labour Augmentation	32.8%	32.7%	30.5%	32.7%	30.4%		

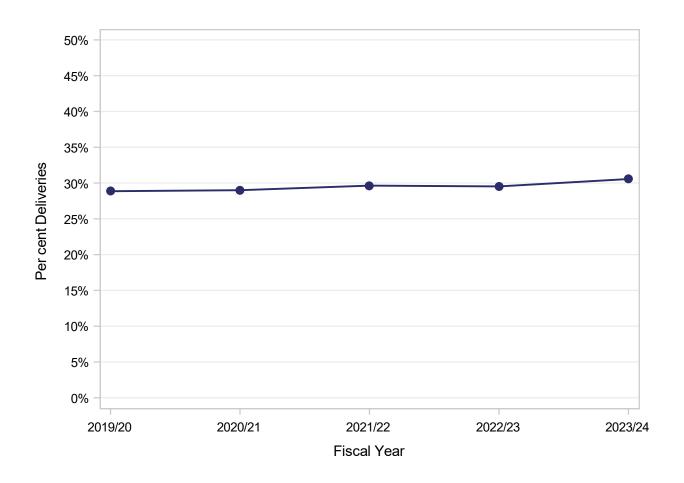
Method of Labour AugmentationDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
Method of Labour Augmentation	2019/20	2020/21	2021/22	2022/23	2023/24	
Artificial Rupture of Membranes	71.3%	70.2%	71.6%	66.1%	64.3%	
Oxytocin	47.5%	50.1%	48.1%	50.5%	53.5%	
Other	NR	NR	0.4%	0.6%	0.8%	

Labour Induction

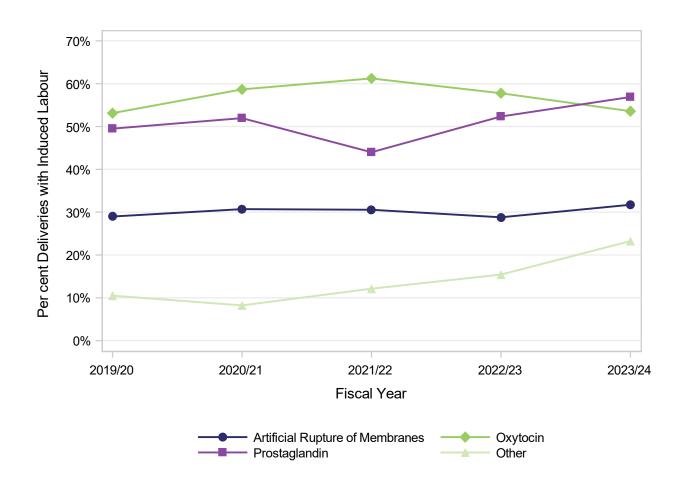
Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Labour Induction	28.9%	29.0%	29.6%	29.5%	30.6%		

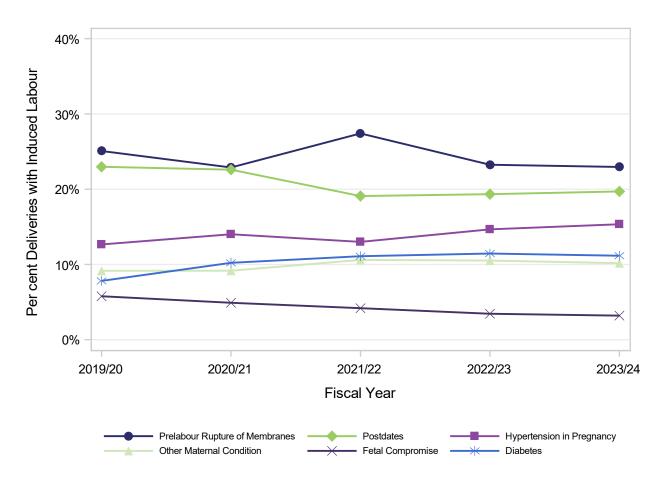
Method of Labour Induction

Deliveries in Interior Health: 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	29.0%	30.7%	30.6%	28.8%	31.7%	
Oxytocin	53.1%	58.7%	61.2%	57.8%	53.6%	
Prostaglandin	49.5%	52.0%	44.0%	52.3%	56.9%	
Other	10.5%	8.2%	12.1%	15.4%	23.2%	

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



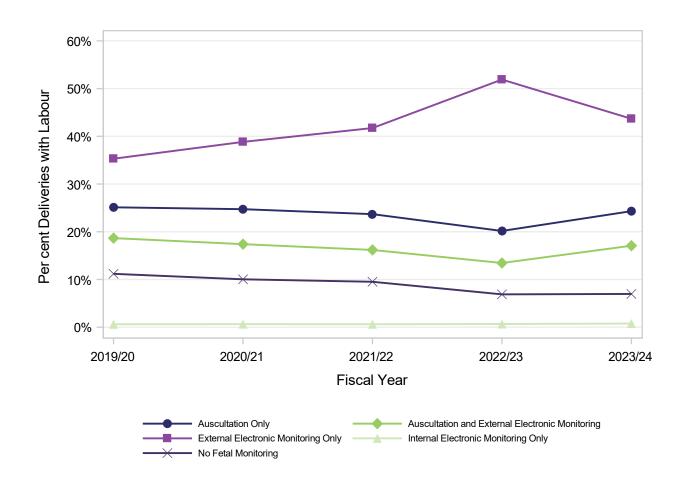
	Fiscal Year						
Primary Indication for Labour Induction	2019/20	2020/21	2021/22	2022/23	2023/24		
Prelabour Rupture of Membranes	25.1%	22.9%	27.4%	23.2%	23.0%		
Post Dates	23.0%	22.6%	19.1%	19.3%	19.7%		
Hypertension in Pregnancy	12.7%	14.0%	13.0%	14.7%	15.3%		
Other Maternal Condition	9.2%	9.2%	10.6%	10.5%	10.2%		
Fetal Compromise	5.8%	4.9%	4.2%	3.4%	3.2%		
Diabetes	7.8%	10.2%	11.1%	11.4%	11.2%		
Fetal Demise	1.1%	0.4%	1.1%	1.0%	0.5%		
Logistics	1.9%	1.1%	0.8%	1.1%	0.8%		
Antepartum Hemorrhage	NR	0.3%	0.3%	0.4%	NR		
Chorioamnionitis	NR	NR	NR	NR	NR		
Other	12.6%	13.7%	11.4%	14.0%	15.5%		
Unknown	0.7%	0.7%	0.9%	0.8%	0.6%		

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

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

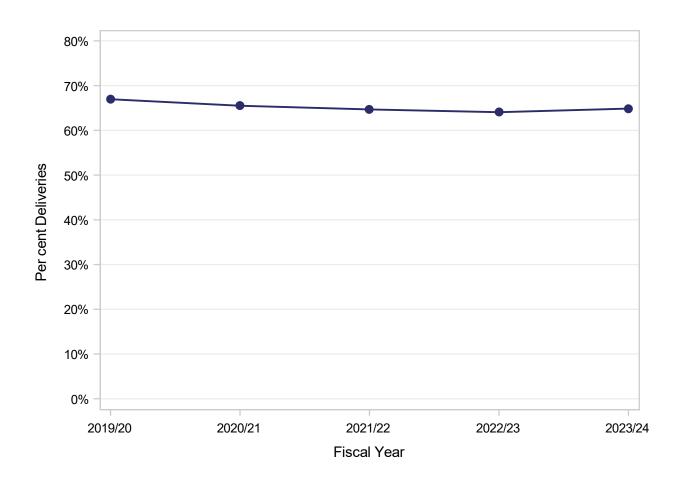
Definitions and specifications begin on Page 84 of this document.

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



	Fiscal Year					
Method of Fetal Surveillance During Labour	2019/20	2020/21	2021/22	2022/23	2023/24	
Auscultation Only	25.1%	24.7%	23.7%	20.2%	24.3%	
Auscultation and External Electronic Monitoring	18.7%	17.4%	16.2%	13.5%	17.1%	
External Electronic Monitoring Only	35.3%	38.8%	41.7%	51.9%	43.7%	
Internal Electronic Monitoring Only	0.6%	0.6%	0.6%	0.7%	0.8%	
No Fetal Monitoring	11.2%	10.0%	9.5%	6.9%	7.0%	

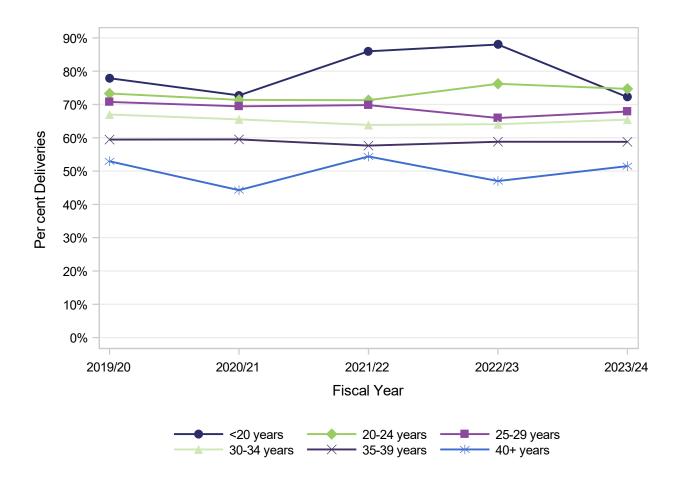
Vaginal DeliveryDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Vaginal Delivery	67.0%	65.5%	64.7%	64.1%	64.9%		

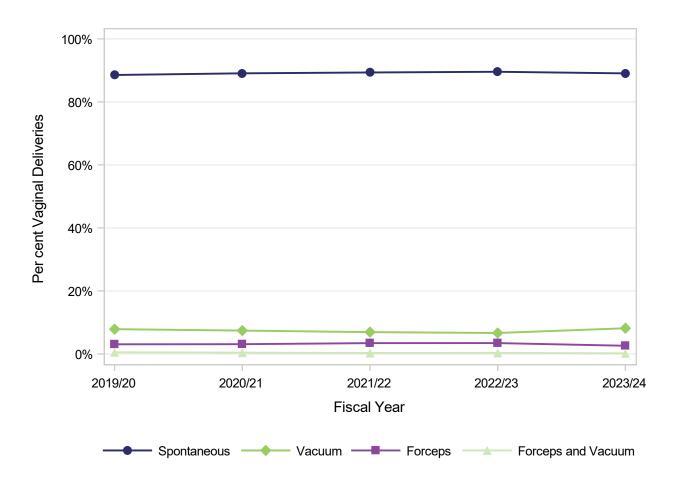
Vaginal Delivery

by Maternal Age
Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24	
<20 years	77.9%	72.7%	86.0%	88.0%	72.2%	
20-24 years	73.3%	71.4%	71.3%	76.2%	74.7%	
25-29 years	70.8%	69.4%	69.8%	65.9%	67.9%	
30-34 years	67.0%	65.5%	63.9%	64.1%	65.5%	
35-39 years	59.5%	59.5%	57.6%	58.8%	58.8%	
40+ years	52.9%	44.3%	54.4%	47.0%	51.5%	

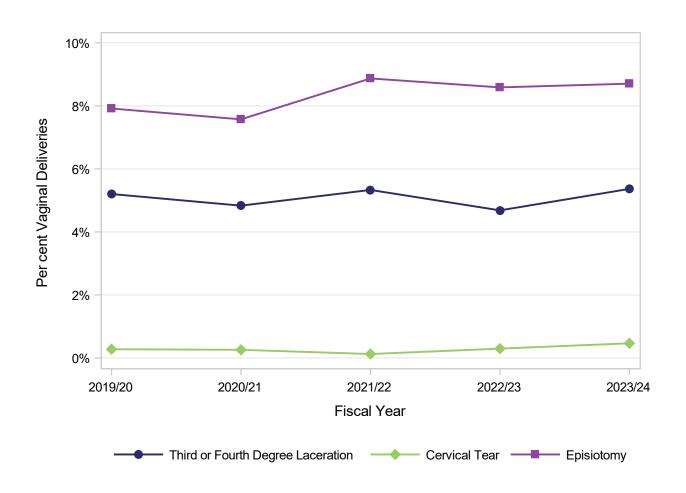
Type of Vaginal DeliveryDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
Type of Vaginal Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Spontaneous	88.5%	89.1%	89.3%	89.6%	89.1%		
Vacuum	7.9%	7.4%	6.9%	6.6%	8.2%		
Forceps	3.1%	3.1%	3.4%	3.4%	2.6%		
Forceps and Vacuum	0.5%	0.4%	0.3%	0.3%	0.2%		

Perineal Trauma

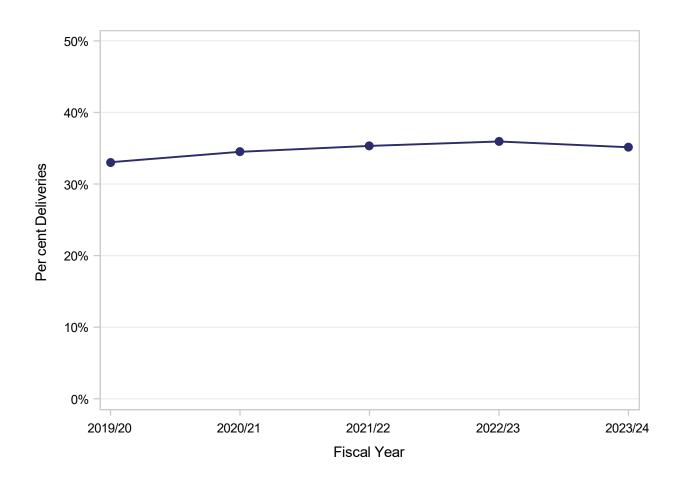
Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
Perineal Trauma	2019/20	2020/21	2021/22	2022/23	2023/24		
Third or Fourth Degree Laceration	5.2%	4.8%	5.3%	4.7%	5.4%		
Cervical Tear	0.3%	0.3%	0.1%	0.3%	0.5%		
Episiotomy	7.9%	7.6%	8.9%	8.6%	8.7%		

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

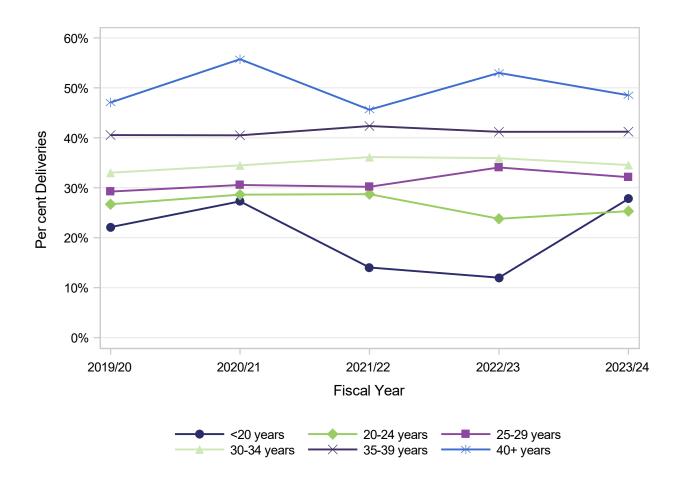
Cesarean DeliveryDeliveries in Interior Health: April 1, 2019 - March 31, 2024



		Fiscal Year					
	2019/20	2020/21	2021/22	2022/23	2023/24		
Cesarean Delivery	33.0%	34.5%	35.3%	35.9%	35.1%		

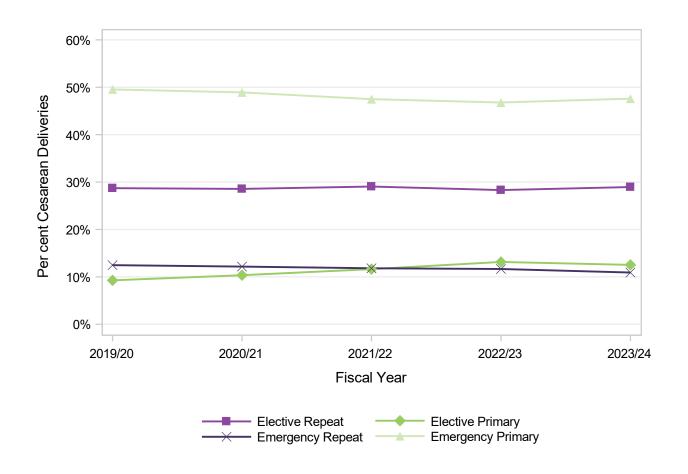
Cesarean Delivery

by Maternal Age
Deliveries in Interior Health: April 1, 2019 - March 31, 2024



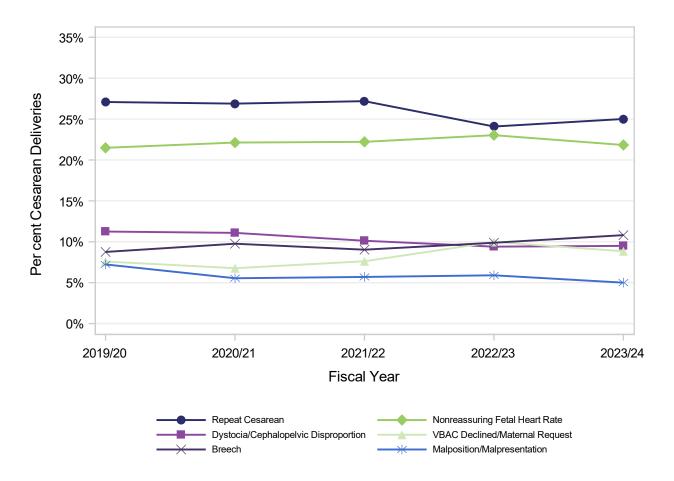
	Fiscal Year					
Maternal Age	2019/20	2020/21	2021/22	2022/23	2023/24	
<20 years	22.1%	27.3%	14.0%	12.0%	27.8%	
20-24 years	26.7%	28.6%	28.7%	23.8%	25.3%	
25-29 years	29.2%	30.6%	30.2%	34.1%	32.1%	
30-34 years	33.0%	34.5%	36.1%	35.9%	34.5%	
35-39 years	40.5%	40.5%	42.4%	41.2%	41.2%	
40+ years	47.1%	55.7%	45.6%	53.0%	48.5%	

Type of Cesarean DeliveryDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
Type of Cesarean Delivery	2019/20	2020/21	2021/22	2022/23	2023/24		
Elective Primary	9.3%	10.4%	11.6%	13.1%	12.5%		
Elective Repeat	28.7%	28.6%	29.1%	28.3%	29.0%		
Emergency Primary	49.5%	48.9%	47.5%	46.8%	47.6%		
Emergency Repeat	12.5%	12.2%	11.8%	11.7%	10.9%		

Primary Indication for Cesarean Delivery Deliveries in Interior Health: April 1, 2019 - March 31, 2024



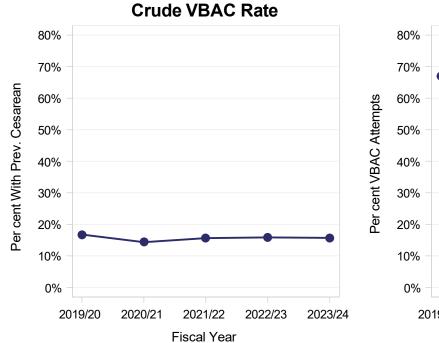
	Fiscal Year					
Primary Indication for Cesarean Delivery	2019/20	2020/21	2021/22	2022/23	2023/24	
Repeat Cesarean	27.1%	26.9%	27.2%	24.1%	25.0%	
Nonreassuring Fetal Heart Rate	21.5%	22.1%	22.2%	23.0%	21.8%	
Dystocia/Cephalopelvic Disproportion	11.3%	11.1%	10.1%	9.4%	9.5%	
VBAC Declined/Maternal Request	7.6%	6.8%	7.6%	10.0%	8.8%	
Breech	8.8%	9.8%	9.0%	9.9%	10.8%	
Malposition/Malpresentation	7.2%	5.5%	5.7%	5.9%	5.0%	
Placenta Previa	1.3%	1.1%	1.0%	1.2%	1.3%	
Abruptio Placenta	1.1%	1.3%	0.9%	1.1%	0.8%	
Active Herpes	0.5%	0.4%	0.2%	0.2%	0.3%	
Other	13.7%	15.0%	15.9%	14.9%	16.5%	

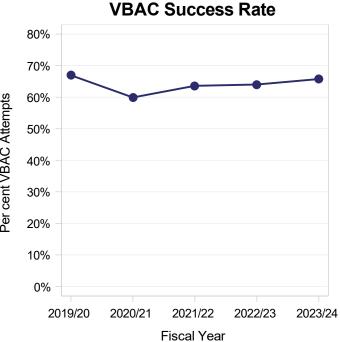
Selected indications are included in the figure; all indications are included in the table.

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

Vaginal Birth After Cesarean (VBAC)

Deliveries in Interior Health: 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	16.8%	14.3%	15.6%	15.9%	15.7%		
VBAC Eligible Rate	75.1%	72.2%	73.2%	73.0%	73.0%		
VBAC Attempted Rate	33.2%	33.1%	33.6%	33.1%	32.1%		
VBAC Success Rate	66.9%	59.9%	63.6%	64.0%	65.8%		

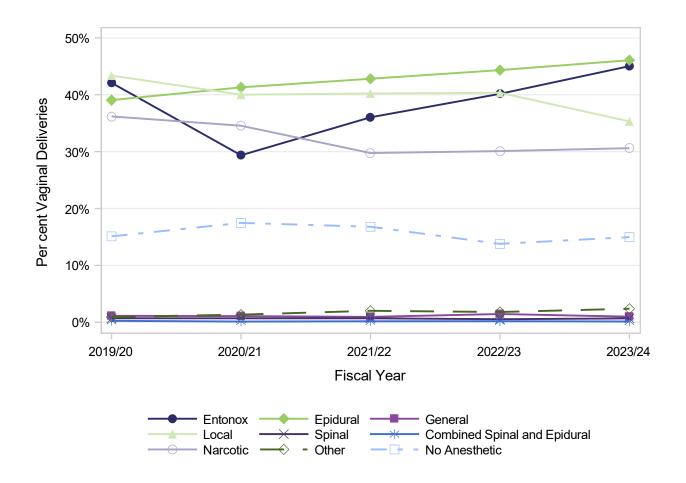
Crude VBAC Rate: Total number vaginal deliveries / Women with a previous cesarean **VBAC Eligible Rate:** Women considered eligible for VBAC / Women with a previous cesarean

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

Anesthesia or Analgesia During Labour and Delivery Vaginal Deliveries

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



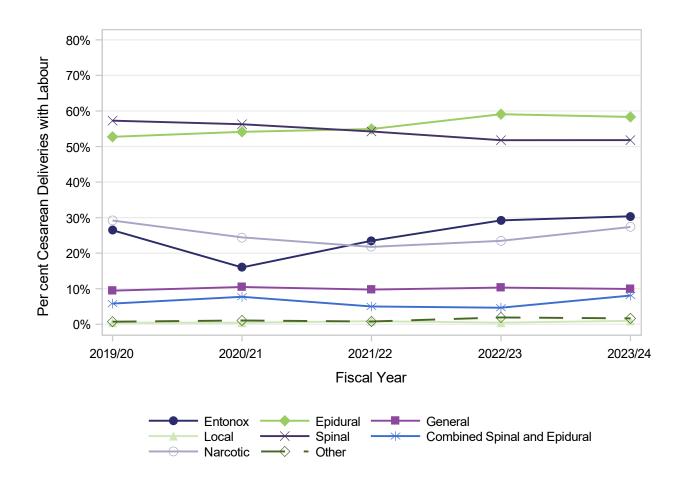
	Fiscal Year						
Anesthesia or Analgesia	2019/20	2020/21	2021/22	2022/23	2023/24		
Entonox	42.1%	29.4%	36.0%	40.2%	45.0%		
Epidural	39.1%	41.3%	42.8%	44.3%	46.1%		
General	1.1%	1.1%	0.9%	1.5%	1.0%		
Local	43.4%	40.0%	40.2%	40.3%	35.3%		
Spinal	0.7%	0.7%	0.7%	0.5%	0.7%		
Combined Spinal and Epidural	-	-	-	NR	0.1%		
Other	0.9%	1.3%	2.0%	1.8%	2.4%		
No Anesthetic	15.1%	17.5%	16.8%	13.8%	15.0%		
Narcotic	36.2%	34.6%	29.8%	30.1%	30.6%		

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 Interior Health: April 1, 2019 - March 31, 2024

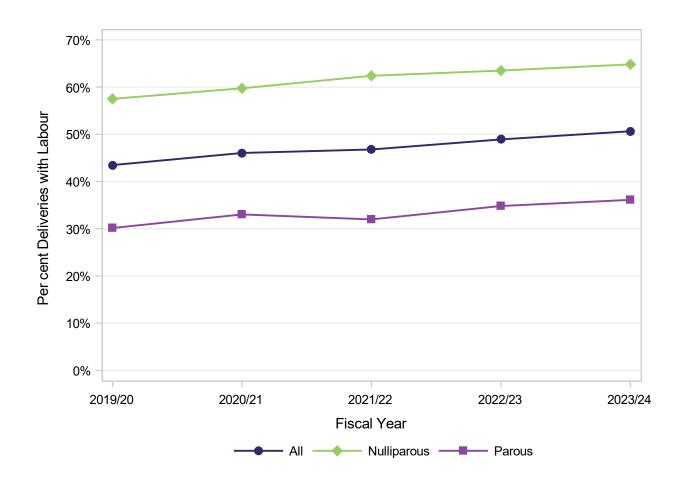


	Fiscal Year					
Anesthesia or Analgesia	2019/20	2020/21	2021/22	2022/23	2023/24	
Entonox	26.5%	16.0%	23.5%	29.2%	30.4%	
Epidural	52.7%	54.1%	54.9%	59.1%	58.3%	
General	9.5%	10.5%	9.8%	10.3%	9.9%	
Local	0.5%	0.4%	0.9%	0.5%	1.0%	
Spinal	57.3%	56.3%	54.2%	51.8%	51.8%	
Combined Spinal and Epidural	-	-	-	NR	8.1%	
Other	0.7%	1.1%	0.8%	1.9%	1.7%	
Narcotic	29.2%	24.4%	21.8%	23.5%	27.4%	

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.

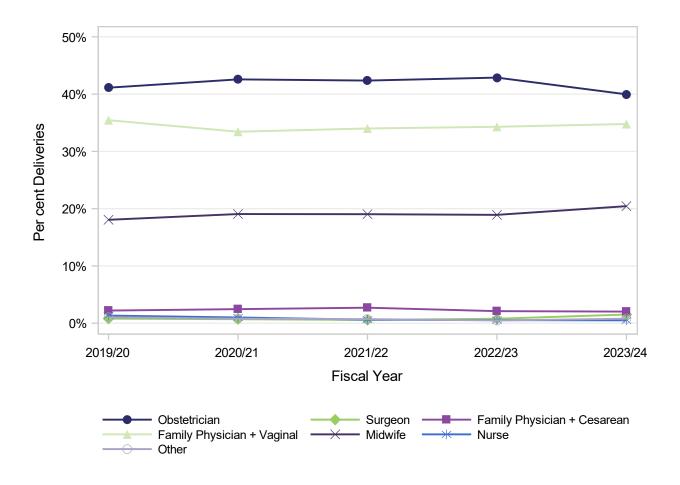
Epidural Anesthesia or Analgesia During Labour and Delivery by ParityDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
Parity	2019/20	2020/21	2021/22	2022/23	2023/24	
All	43.5%	46.0%	46.8%	48.9%	50.6%	
Nulliparous	57.5%	59.7%	62.4%	63.5%	64.8%	
Parous	30.1%	33.0%	32.0%	34.8%	36.1%	

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

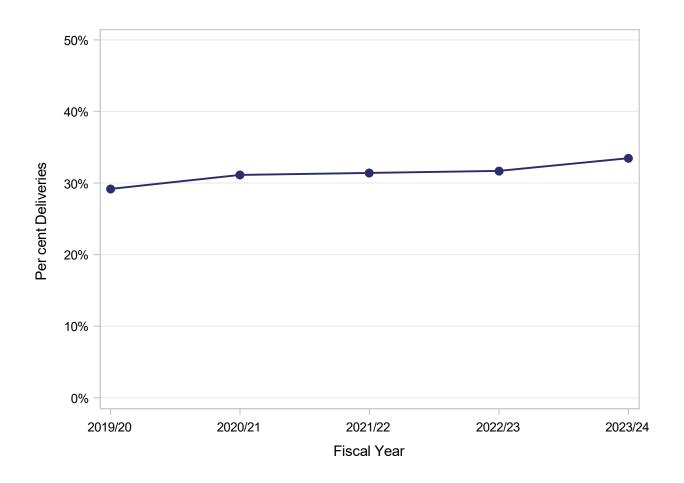
Delivery ProviderDeliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
Delivery Provider	2019/20	2020/21	2021/22	2022/23	2023/24		
Obstetrician	41.1%	42.6%	42.4%	42.9%	40.0%		
Surgeon	0.8%	0.7%	0.6%	0.8%	1.5%		
Family Physician + Cesarean	2.2%	2.5%	2.7%	2.1%	2.0%		
Family Physician + Vaginal	35.5%	33.4%	34.0%	34.3%	34.8%		
Midwife	18.1%	19.1%	19.0%	18.9%	20.4%		
Nurse	1.3%	1.0%	0.6%	0.5%	0.5%		
Other	1.0%	0.8%	0.7%	0.5%	0.8%		

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

Deliveries with Midwifery-Involved Care Deliveries in Interior Health: April 1, 2019 - March 31, 2024



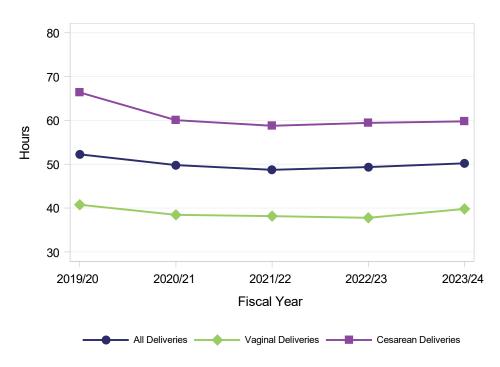
	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Deliveries with Midwifery-Involved Care	29.2%	31.1%	31.4%	31.7%	33.5%		

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

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Length of Stay for the Delivery Episode of Care by Mode of Delivery Deliveries in Interior Health: April 1, 2019 - March 31, 2024

Median Total Length of Stay (Hours)

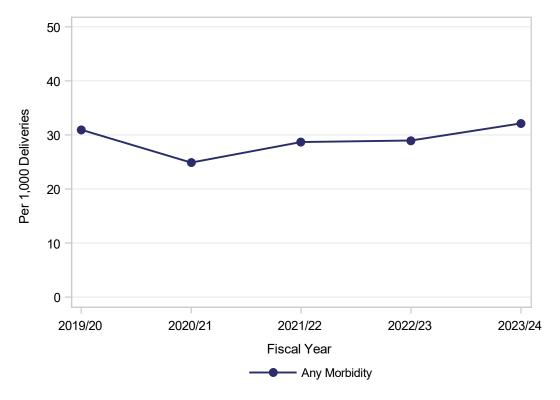


Median Antepartum, Postpartum, and Total Length of Stay for the Delivery Episode of Care

	Antepartum LOS (Hours)			P	ostpartı	artum LOS (Hours)			Total LOS (Hours)						
		Fi	Fiscal Year			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	6.0	5.8	6.0	6.1	6.6	43.7	40.5	39.2	39.3	39.4	52.3	49.8	48.7	49.4	50.2
Vaginal Deliveries	5.7	5.7	5.9	6.0	6.6	34.1	32.0	31.6	31.3	31.7	40.8	38.5	38.2	37.8	39.8
Cesarean Deliveries	6.5	6.1	6.0	6.5	6.8	55.3	52.6	52.0	52.2	52.1	66.4	60.1	58.8	59.4	59.8

Maternal Morbidity

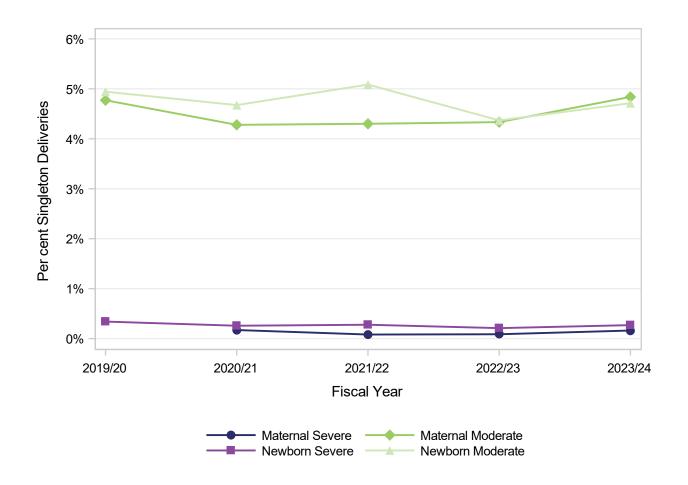
Deliveries in Interior Health: April 1, 2019 - March 31, 2024



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	9.9	8.0	12.7	10.7	13.3
Postpartum Hemorrhage with Transfusion	9.1	7.1	5.0	10.2	8.2
Urinary Tract Infection	2.9	2.7	2.9	3.1	3.2
Sepsis	5.4	4.1	3.9	1.6	2.8
Wound Infection	1.7	NR	1.1	1.2	3.2
HELLP	2.2	3.2	4.4	4.8	2.0
Anesthetic Complications	1.2	2.5	2.7	2.1	1.8
Antepartum Hemorrhage with Transfusion	2.0	1.4	1.6	0.9	NR
Eclampsia	NR	NR	NR	NR	NR
Shock	NR	0.0	NR	NR	0.9
Pulmonary Embolism	NR	NR	NR	NR	NR
Postpartum Hemorrhage with Hysterectomy	NR	0.0	NR	NR	0.9
Stroke	NR	NR	NR	NR	NR

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



	Fiscal Year							
	2019/20	2020/21	2021/22	2022/23	2023/24			
Any Adverse Outcome	9.7%	9.0%	9.5%	8.7%	9.6%			
Maternal Severe Adverse Outcome	NR	0.2%	0.1%	0.1%	0.2%			
Maternal Moderate Adverse Outcome	4.8%	4.3%	4.3%	4.3%	4.8%			
Neonatal Severe Adverse Outcome	0.3%	0.3%	0.3%	0.2%	0.3%			
Neonatal Moderate Adverse Outcome	4.9%	4.7%	5.1%	4.4%	4.7%			

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

Maternal Hospital TransfersDeliveries in Interior Health: April 1, 2019 - March 31, 2024

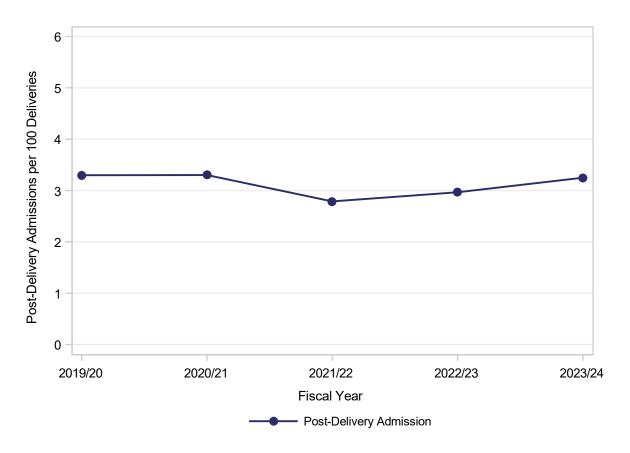


	Fiscal Year							
	2019/20 2020/21 2021/22 2022/23				2023/24			
Type of Transfer	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000			
Any Transfer	11.4	15.6	13.2	14.3	17.2			
Higher Level	8.7	11.5	10.5	11.7	11.7			

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

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

Post-Delivery AdmissionsDeliveries in Interior Health: 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		
Hypertension or Eclampsia	14.3%	14.4%	12.1%	13.4%	21.3%		
Routine Postpartum Care	23.0%	29.2%	17.3%	18.6%	20.2%		
Postpartum Infection	14.8%	11.3%	11.6%	13.4%	15.8%		
Postpartum Hemorrhage	17.3%	13.8%	24.3%	23.8%	12.0%		
Other Diseases Complicating Pregnancy	14.3%	6.2%	12.7%	8.1%	7.1%		
Other Wound Issues	3.1%	7.2%	5.2%	NR	4.9%		
Retained Placenta Without Hemorrhage	3.6%	2.6%	4.6%	3.5%	3.3%		
Pregnancy-Associated Mental Health	NR	NR	0.0%	NR	0.0%		
Care of Breasts	NR	2.6%	NR	NR	NR		
Complications of Anesthesia	NR	3.6%	5.2%	2.9%	NR		

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

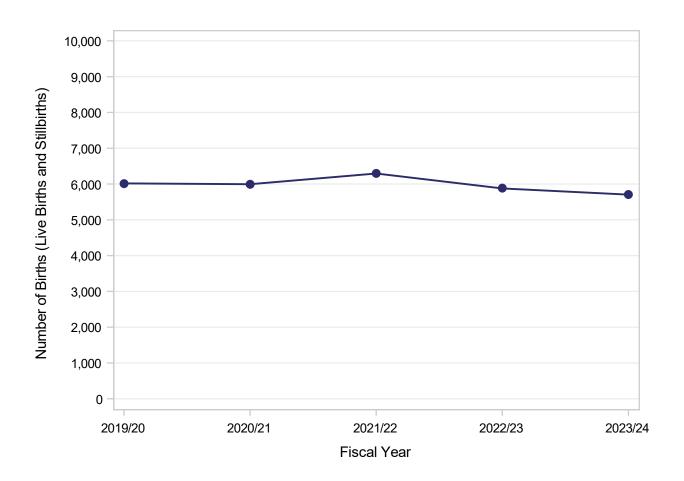
NR: Rates and per cents based on numerators of 1 to 4 are not reported.

Perinatal Health Report 2019/20 to 2023/24 Interior Health

Section 3: Newborn Health

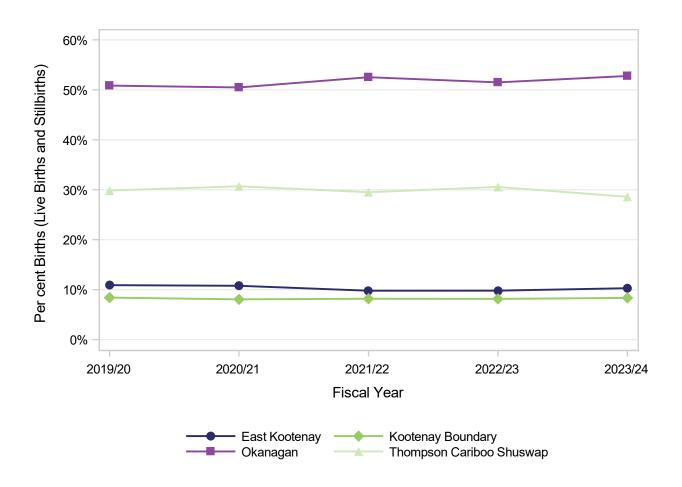
Total Births

Births in Interior Health: April 1, 2019 - March 31, 2024



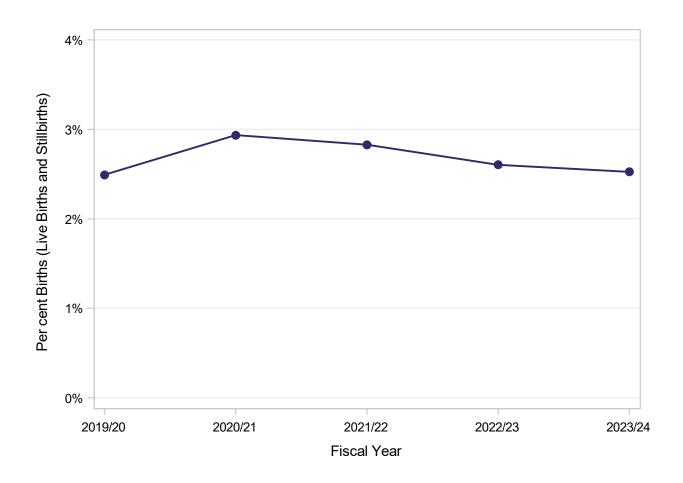
	Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24				
Interior Health	6,018	5,995	6,294	5,877	5,704				

Total Births by Facility Health Service Delivery AreaBirths in Interior Health: April 1, 2019 - March 31, 2024



					Fisca	ıl Year				
	201	9/20	202	2020/21		2021/22		2/23	2023/24	
Facility Health Service Delivery Area	Count	Per cent	Count	Per cent						
East Kootenay	656	10.9%	646	10.8%	616	9.8%	576	9.8%	587	10.3%
Kootenay Boundary	506	8.4%	483	8.1%	515	8.2%	479	8.2%	476	8.3%
Okanagan	3,060	50.8%	3,026	50.5%	3,306	52.5%	3,026	51.5%	3,010	52.8%
Thompson Cariboo Shuswap	1,796	29.8%	1,840	30.7%	1,857	29.5%	1,796	30.6%	1,631	28.6%

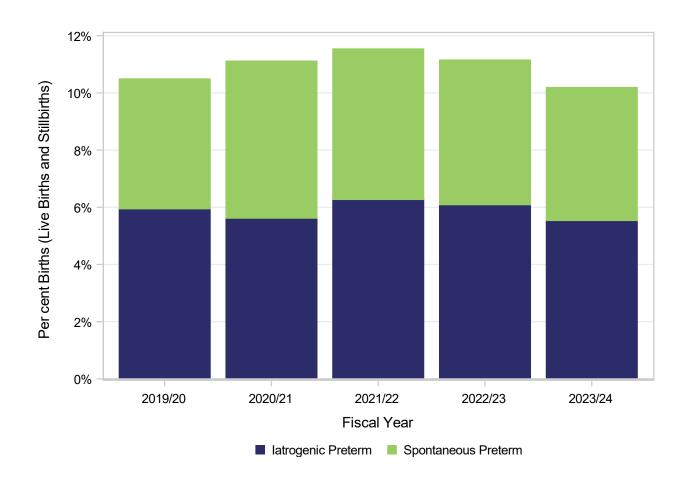
Births Part of a Multiple GestationBirths in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24				
Multiple Gestation	2.5%	2.9%	2.8%	2.6%	2.5%				

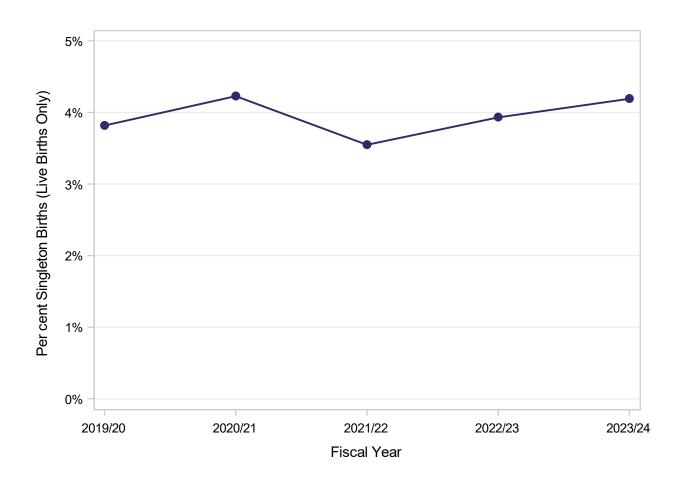
Preterm Birth

Births in Interior Health: April 1, 2019 - March 31, 2024



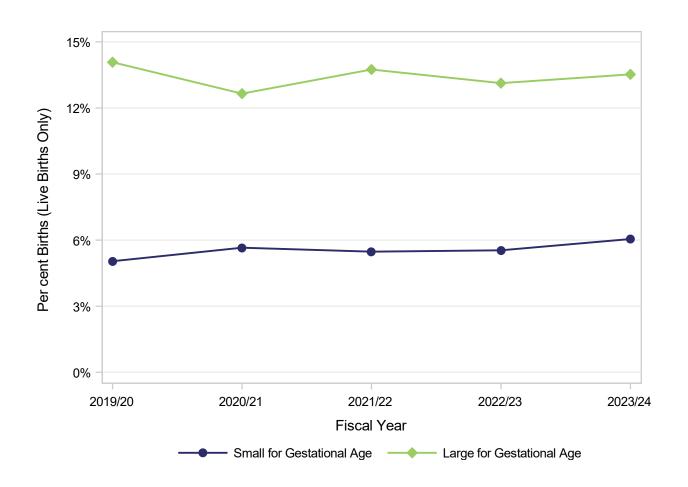
	Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24				
latrogenic Preterm	5.9%	5.6%	6.3%	6.1%	5.5%				
Spontaneous Preterm	4.5%	5.5%	5.3%	5.1%	4.6%				
Total Preterm	10.5%	11.1%	11.5%	11.2%	10.4%				

Low Birthweight SingletonsBirths in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24				
Low Birthweight	3.8%	4.2%	3.5%	3.9%	4.2%				

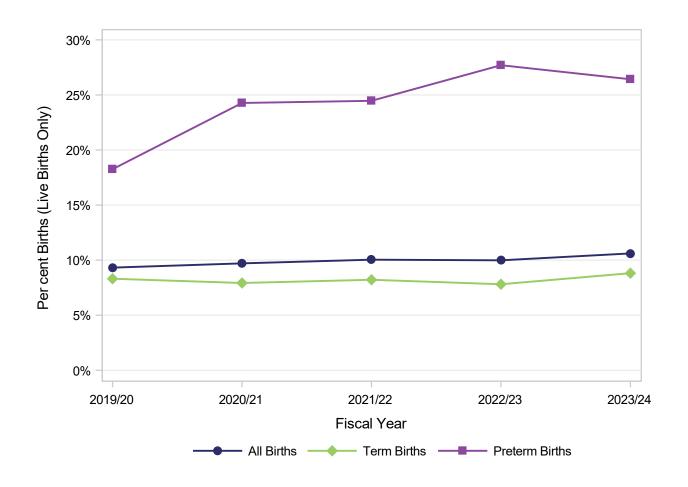
Weight for Gestational Age Births in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year								
	2019/20	2020/21	2021/22	2022/23	2023/24				
Small for Gestational Age	5.0%	5.7%	5.5%	5.5%	6.0%				
Large for Gestational Age	14.1%	12.7%	13.7%	13.1%	13.5%				

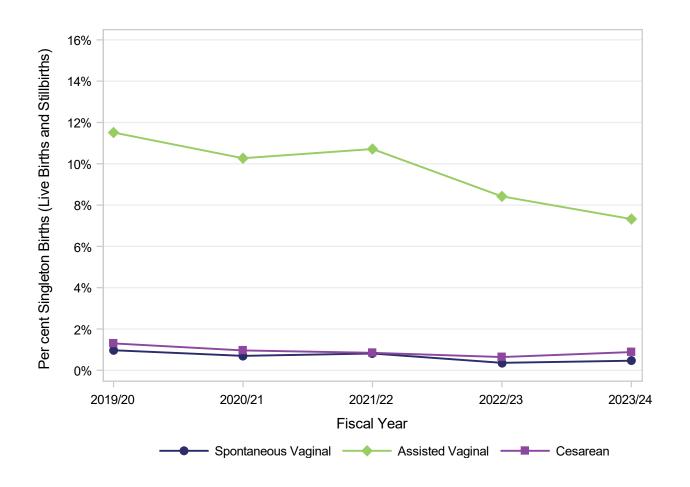
Newborn Resuscitation

by Gestational AgeBirths in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
Gestational Age	2019/20	2020/21	2021/22	2022/23	2023/24	
All Births	9.3%	9.7%	10.0%	10.0%	10.6%	
Term Births	8.3%	7.9%	8.2%	7.8%	8.8%	
Preterm Births	18.4%	24.4%	24.5%	27.8%	26.5%	

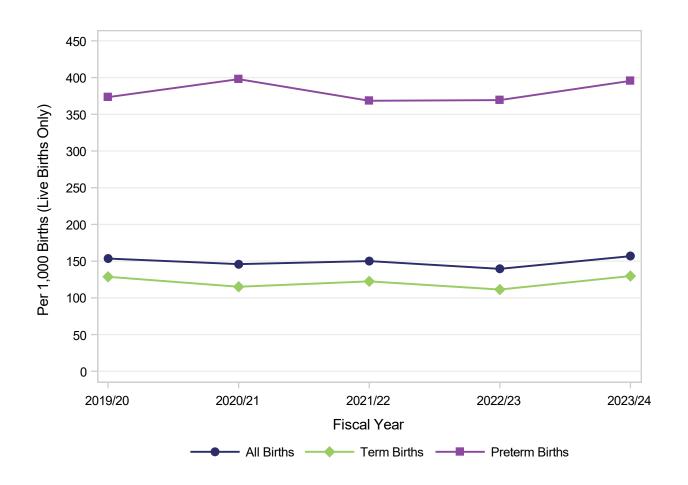
Birth Injury by Mode of Delivery Births in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24	
Spontaneous Vaginal	1.0%	0.7%	0.8%	0.4%	0.5%	
Assisted Vaginal	11.5%	10.3%	10.7%	8.4%	7.3%	
Cesarean	1.3%	1.0%	0.8%	0.6%	0.9%	

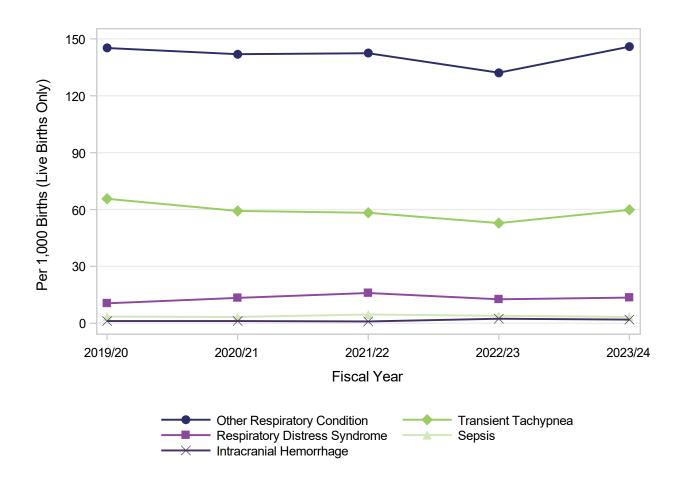
Neonatal Morbidity

by Gestational Age
Births in Interior Health: April 1, 2019 - March 31, 2024



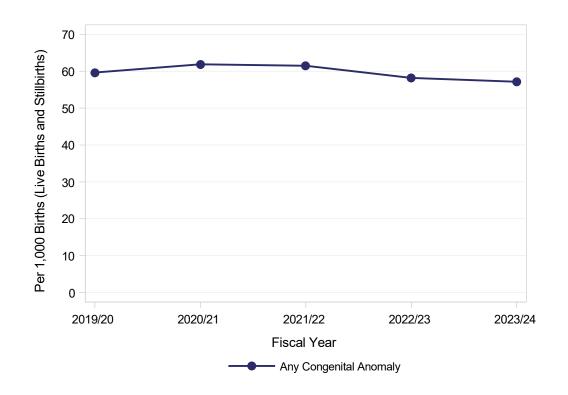
	Fiscal Year						
	2019/20	2020/21	2022/23	2023/24			
Gestational Age	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000		
All Births	153.5	145.9	150.1	139.5	156.8		
Term Births	128.7	115.1	122.5	111.3	129.7		
Preterm Births	373.4	397.8	368.4	369.3	395.5		

Type of Neonatal MorbidityBirths in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2019/20 2020/21 2		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	145.2	141.9	142.4	132.2	145.9		
Transient Tachypnea	65.7	59.2	58.3	52.8	59.8		
Respiratory Distress Syndrome	10.5	13.4	16.0	12.7	13.5		
Sepsis	3.5	3.3	4.6	3.9	3.3		
Intracranial Hemorrhage	1.2	1.2	1.0	2.4	1.9		

Congenital AnomaliesBirths in Interior Health: April 1, 2019 - March 31, 2024

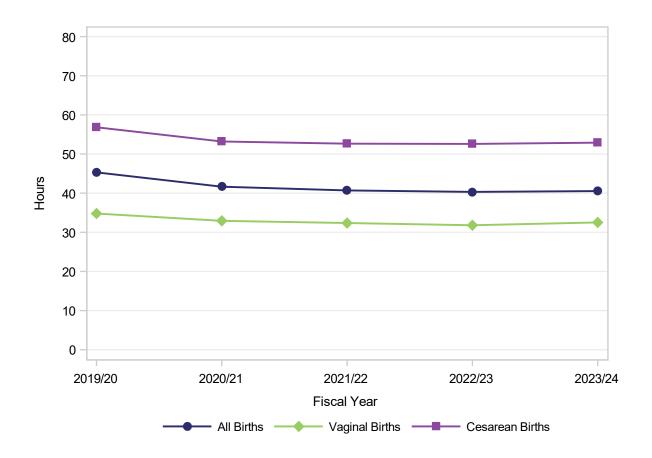


Specific Congenital Anomalies Per 1,000 Live Births and Stillbirths

	Fiscal Year						
	2019/20 2020/21 2		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	1.5	1.3	1.9	1.9	NR		
Circulatory System	7.5	8.7	9.1	10.0	11.2		
Cleft Lip or Palate	2.5	1.5	1.0	0.9	1.6		
Digestive System	20.3	17.3	16.8	19.6	18.9		
Eye, Ear, Face, or Neck	2.2	3.0	3.3	2.4	3.2		
Genital Organs	6.5	8.5	8.7	8.2	6.1		
Musculoskeletal System	11.0	13.2	14.6	10.5	12.8		
Nervous System	1.8	2.5	2.2	2.7	0.9		
Respiratory System	1.0	1.5	1.0	1.9	1.2		
Urinary System	5.6	6.5	5.2	4.3	5.3		
Other Specific Anomaly	7.1	6.0	3.8	3.6	4.4		

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

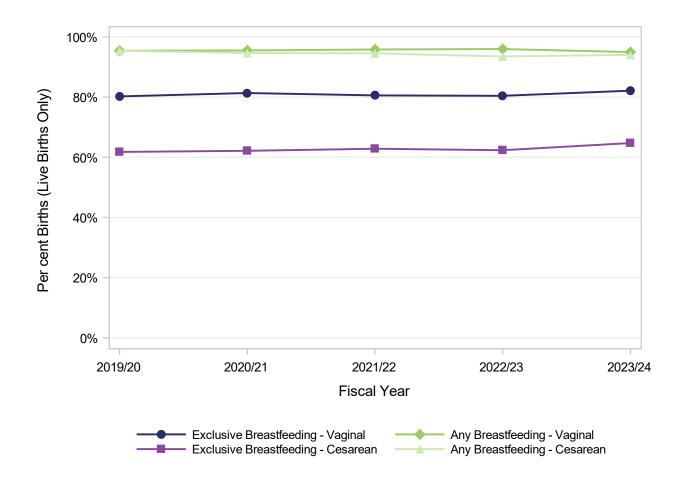
Median Length of Stay (Hours) for the Birth Episode of Care Live Births by Mode of Delivery Births in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
All Births	45.3	41.7	40.7	40.3	40.5		
Vaginal Births	34.8	32.9	32.4	31.8	32.5		
Cesarean Births	56.8	53.2	52.6	52.6	52.9		

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

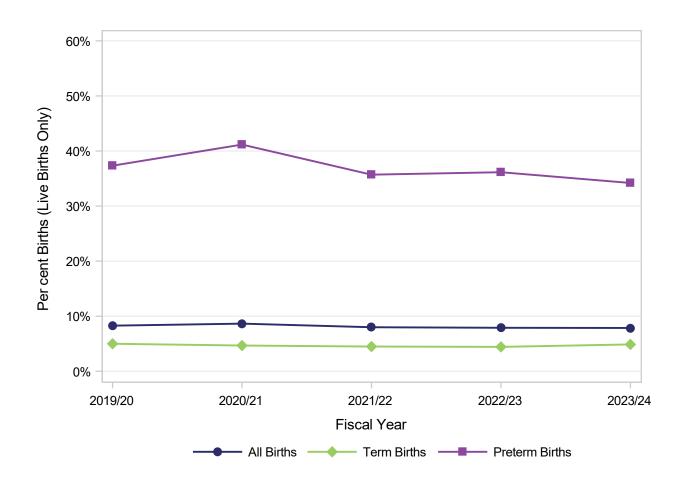
Breastfeeding During the Birth Admission by Mode of DeliveryBirths in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Exclusive Breastfeeding - Vaginal	80.2%	81.3%	80.6%	80.4%	82.1%		
Any Breastfeeding - Vaginal	95.4%	95.5%	95.8%	96.0%	94.9%		
Exclusive Breastfeeding - Cesarean	61.8%	62.1%	62.8%	62.3%	64.7%		
Any Breastfeeding - Cesarean	95.4%	94.7%	94.5%	93.5%	94.0%		

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

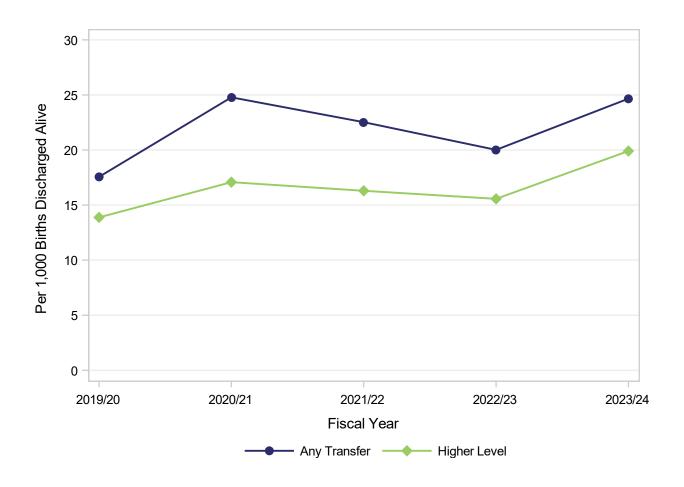
Births in Interior Health: April 1, 2019 - March 31, 2024



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

	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
All Births	9.0	12.0	9.0	9.5	9.0		
Term Births	7.0	7.0	5.0	4.0	5.0		
Preterm Births	15.0	19.0	14.0	16.0	14.0		

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



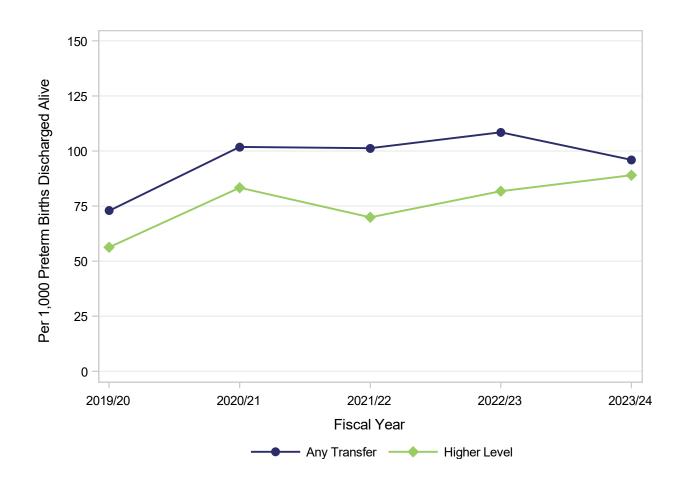
	Fiscal Year						
	2019/20	2019/20 2020/21 2021/22 2022/23 202					
	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000		
Any Transfer	17.6	24.8	22.5	20.0	24.7		
Higher Level	13.9	17.1	16.3	15.6	19.9		

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

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

Transfer to Another Hospital from the Birth Admission Preterm Births

Births in Interior Health: April 1, 2019 - March 31, 2024



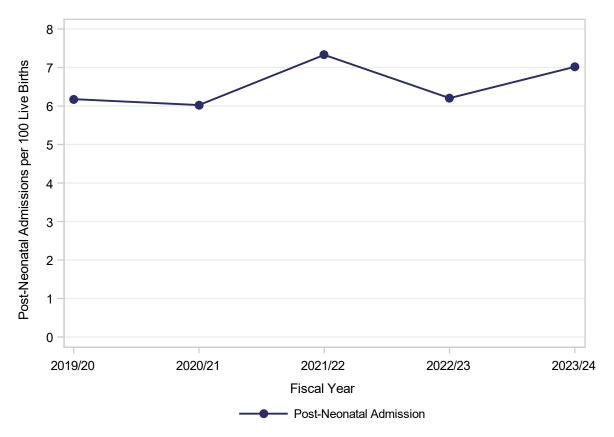
	Fiscal Year						
	2019/20	2019/20 2020/21 2021/22 2022/23					
	per 1,000	per 1,000	per 1,000	per 1,000	per 1,000		
Any Transfer	72.8	101.9	101.3	108.5	96.0		
Higher Level	56.3	83.3	69.9	81.8	89.0		

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. Effective 2014/15 may also include neonates transferred directly to acute care from a birth at home.

Post-Neonatal Admissions

Births in Interior Health: 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	32.2%	31.9%	35.1%	34.4%	16.0%
Respiratory Distress	8.1%	5.6%	7.4%	7.7%	12.3%
Feeding Problems	8.6%	7.8%	5.4%	8.0%	9.5%
Low Birth Weight or Preterm Birth	8.4%	13.6%	10.5%	12.1%	8.8%
Respiratory Infections	6.2%	1.4%	4.1%	7.4%	8.3%
Congenital Anomalies	5.9%	4.4%	3.7%	3.9%	5.8%
Other Infections	4.1%	4.4%	4.6%	2.8%	4.8%
Urinary Tract Infections	1.6%	NR	NR	NR	2.0%
Isoimmunization	3.5%	2.2%	3.3%	NR	1.8%
Apnea	NR	1.4%	2.2%	NR	1.3%

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 Interior Health: 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)	5.1	3.3	5.1	5.3	3.7		
Stillbirth Rate = Stillbirths >=500g / (Live Births + Stillbirths >=500g)	3.0	2.0	2.9	2.2	2.6		
Early Neonatal Mortality Rate = Early Neonatal Deaths / Live Births	1.3	NR	1.1	0.9	1.2		
Perinatal Mortality Rate = Perinatal Deaths / (Live Births + Stillbirths >=500g)	4.3	2.5	4.0	3.1	3.9		
Late Neonatal Mortality Rate = Late Neonatal Deaths / Live Births	NR	0.0	NR	0.0	NR		
Total Neonatal Mortality Rate = Total Neonatal Deaths / Live Births	1.5	NR	1.8	0.9	1.4		
Post-Neonatal Mortality Rate = Post-Neonatal Deaths / Live Births	0.0	NR	0.0	NR	0.0		
Infant Mortality Rate = Infant Deaths / Live Births	1.5	NR	1.8	1.0	1.4		

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.

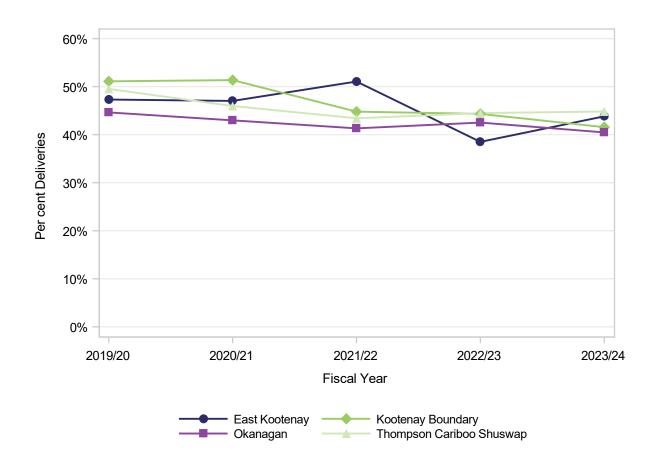
Infant Deaths: Total neonatal death + post-neonatal deaths.

Section 3: Newborn Health.

Perinatal Health Report 2019/20 to 2023/24 Interior Health

Section 4: 'Normal Labour'

Deliveries with 'Normal Labour' by Facility Health Service Delivery Area Deliveries in Interior Health: April 1, 2019 - March 31, 2024



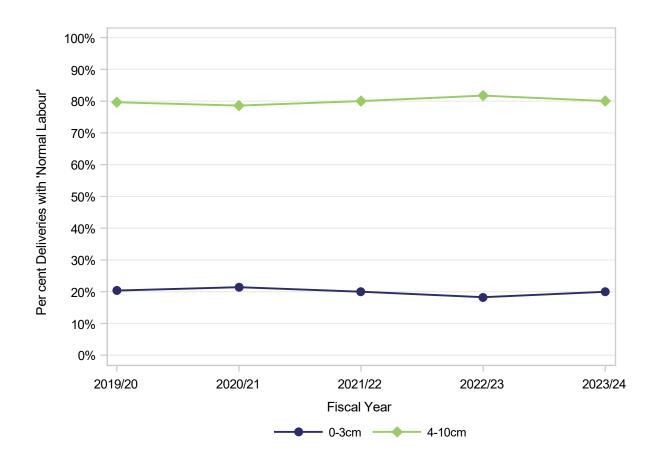
	Fiscal Year								
Facility Health Service Delivery Area	2019/20	2020/21	2021/22	2022/23	2023/24				
East Kootenay	47.3%	47.0%	51.1%	38.5%	43.8%				
Kootenay Boundary	51.1%	51.4%	44.8%	44.3%	41.6%				
Okanagan	44.6%	43.0%	41.3%	42.5%	40.5%				
Thompson Cariboo Shuswap	49.5%	46.0%	43.4%	44.5%	44.8%				

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.

Cervical Dilation at Admission

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year								
Cervical Dilation at Admission	2019/20	2020/21	2021/22	2022/23	2023/24				
0-3cm	20.4%	21.4%	20.0%	18.3%	20.0%				
4-10cm	79.6%	78.6%	80.0%	81.7%	80.0%				
Missing	26.2%	25.0%	28.7%	28.2%	29.1%				

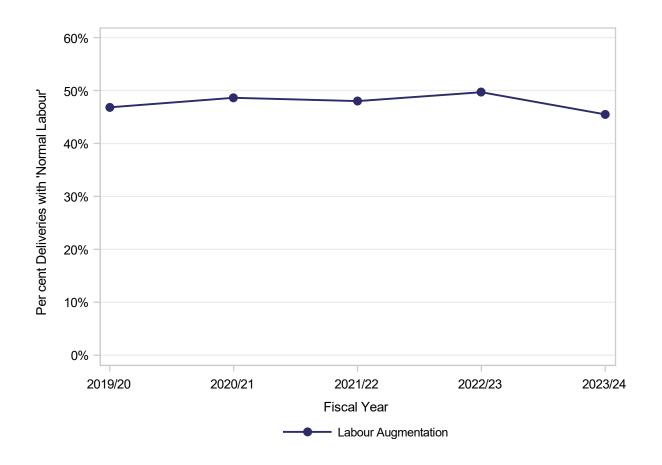
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

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

Labour Augmentation

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



Labour Augmentation by Mode of Delivery

Deliveries with 'Normal Labour'

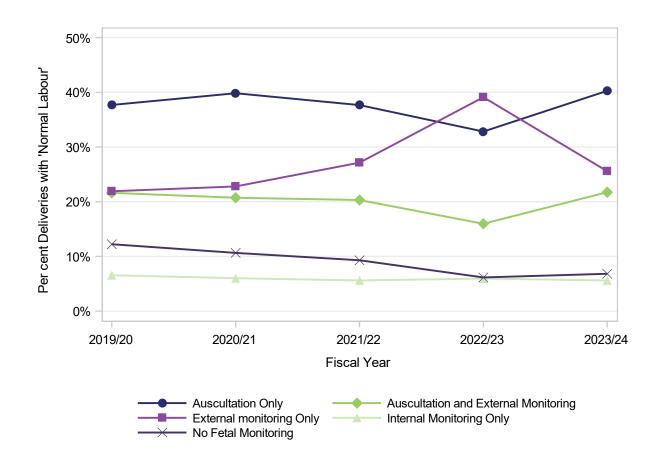
	Fiscal Year								
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24				
Spontaneous Vaginal	41.3%	44.3%	44.4%	44.6%	39.8%				
Assisted Vaginal	67.4%	66.5%	65.3%	66.7%	68.9%				
Cesarean	66.4%	66.2%	62.3%	69.4%	68.2%				

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.

Method of Fetal Surveillance During Labour

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



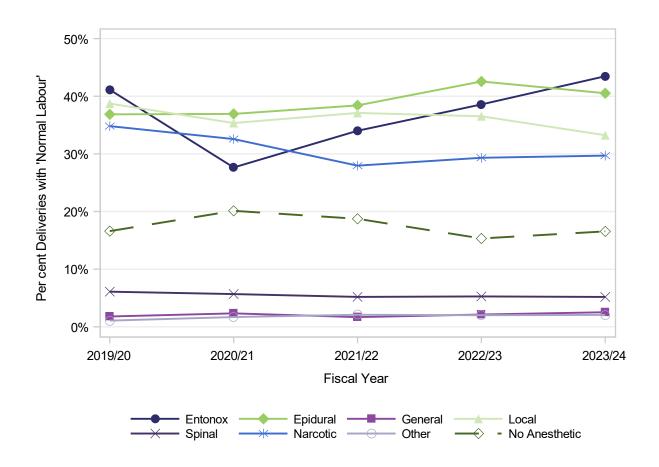
	Fiscal Year									
Method of Fetal Surveillance	2019/20	2020/21	2021/22	2022/23	2023/24					
Auscultation Only	37.7%	39.8%	37.7%	32.8%	40.3%					
Auscultation and External Monitoring	21.6%	20.7%	20.3%	16.0%	21.7%					
External Monitoring Only	21.9%	22.8%	27.1%	39.1%	25.6%					
Internal Monitoring Only	6.6%	6.0%	5.6%	6.0%	5.6%					
No Fetal Monitoring	12.2%	10.6%	9.3%	6.2%	6.8%					

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.

Anesthesia and Analgesia During Labour and Delivery

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year									
Anesthesia or Analgesia	2019/20	2020/21	2021/22	2022/23	2023/24					
Entonox	41.1%	27.6%	34.0%	38.6%	43.5%					
Epidural	36.9%	36.9%	38.4%	42.6%	40.5%					
General	1.8%	2.3%	1.7%	2.1%	2.5%					
Local	38.7%	35.4%	37.1%	36.5%	33.2%					
Spinal	6.1%	5.7%	5.2%	5.3%	5.2%					
Combined Spinal and Epidural	-	-	-	NR	NR					
Other	1.1%	1.7%	2.1%	2.0%	2.1%					
No Anesthetic	16.6%	20.1%	18.7%	15.3%	16.6%					
Narcotic	34.8%	32.6%	28.0%	29.3%	29.7%					

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.

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 Interior Health: April 1, 2019 - March 31, 2024

		First S	tage (H	ours)		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	3.7	3.6	3.7	3.8	3.6	0.4	0.4	0.4	0.4	0.3
Assisted Vaginal	6.8	6.2	5.9	6.0	6.2	1.6	1.9	1.5	1.6	1.9
Cesarean	8.0	8.1	7.6	7.9	7.7	3.7	3.4	3.2	3.4	3.5

	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	3.4	3.4	3.5	3.4	3.4	30.7	29.2	28.8	28.8	29.1	35.2	34.0	33.5	33.3	33.6
Assisted Vaginal	7.4	7.7	7.6	7.4	8.1	45.7	42.1	40.9	38.4	39.5	54.0	51.1	49.7	46.5	47.9
Cesarean	9.8	9.6	9.4	10.3	10.8	59.8	55.9	52.5	55.1	54.2	71.4	65.4	61.9	64.4	65.2

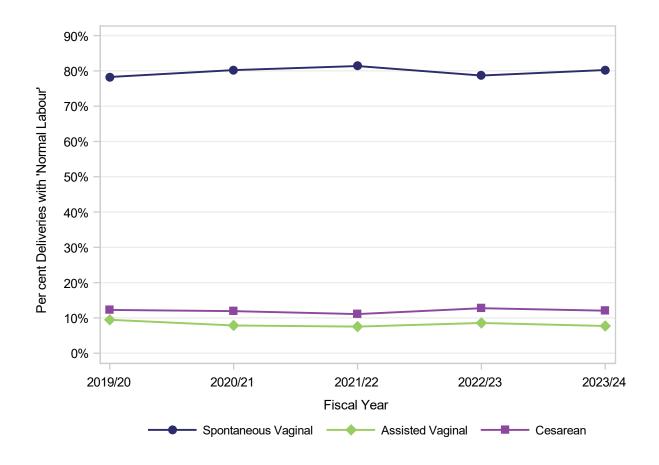
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

Deliveries outside acute care facilities are excluded.

Mode of Delivery

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



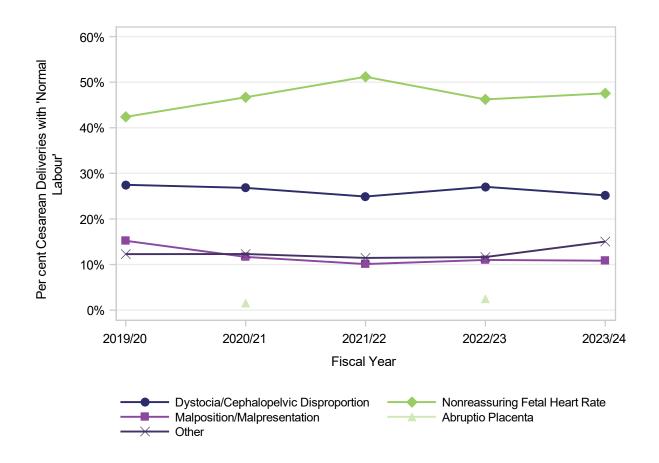
	Fiscal Year								
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24				
Spontaneous Vaginal	78.3%	80.2%	81.4%	78.7%	80.2%				
Assisted Vaginal	9.5%	7.9%	7.5%	8.6%	7.7%				
Cesarean	12.3%	11.9%	11.1%	12.8%	12.0%				

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

Primary Indication for Cesarean Delivery

Deliveries with 'Normal Labour'

Deliveries in Interior Health: 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	27.5%	26.8%	24.9%	27.0%	25.2%			
Nonreassuring Fetal Heart Rate	42.4%	46.7%	51.2%	46.2%	47.6%			
Malposition/Malpresentation	15.2%	11.7%	10.1%	11.0%	10.8%			
Maternal Request	NR	NR	NR	NR	NR			
Abruptio Placenta	NR	1.6%	NR	2.5%	NR			
Active Herpes	NR	NR	NR	NR	NR			
Other	12.3%	12.3%	11.4%	11.6%	15.0%			

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

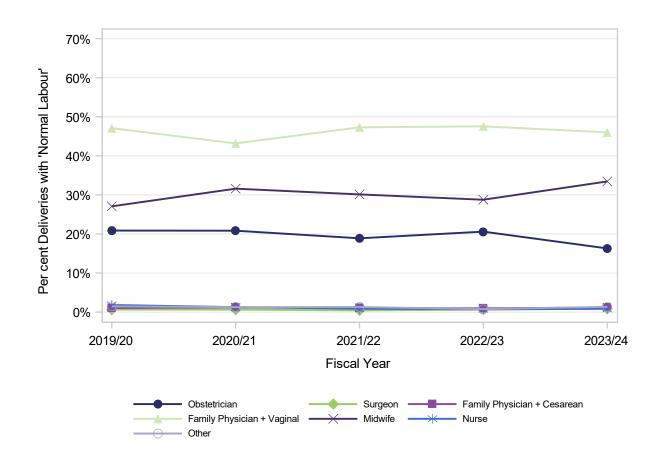
Selected indications are included in the figure; all indications are included in the table.

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

Delivery Provider

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year									
Delivery Provider	2019/20	2020/21	2021/22	2022/23	2023/24					
Obstetrician	20.9%	20.8%	18.9%	20.6%	16.3%					
Surgeon	0.6%	0.6%	0.4%	0.6%	0.9%					
Family Physician + Cesarean	1.0%	1.2%	1.1%	1.0%	1.2%					
Family Physician + Vaginal	47.1%	43.2%	47.3%	47.5%	46.0%					
Midwife	27.1%	31.6%	30.1%	28.8%	33.4%					
Nurse	1.8%	1.3%	0.9%	0.7%	0.8%					
Other	1.5%	1.3%	1.3%	0.8%	1.3%					

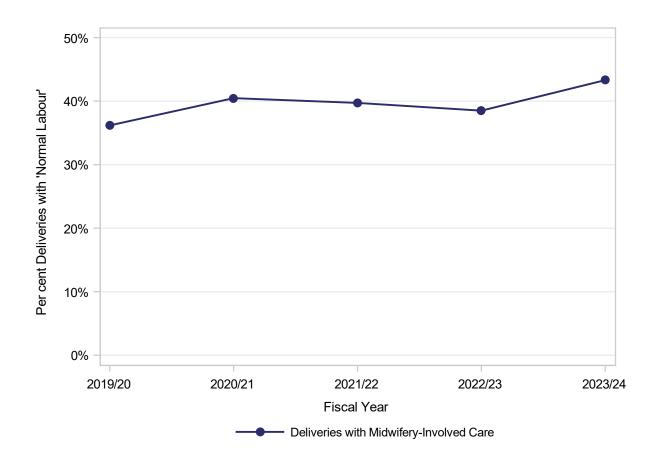
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

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.

Deliveries with Midwifery-Involved Care

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



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

	Fiscal Year						
	2019/20	2020/21	2021/22	2022/23	2023/24		
Spontaneous Vaginal	38.6%	43.1%	40.8%	40.7%	45.8%		
Assisted Vaginal	20.8%	24.9%	32.2%	31.9%	31.1%		
Cesarean	32.7%	33.1%	36.7%	29.3%	34.6%		

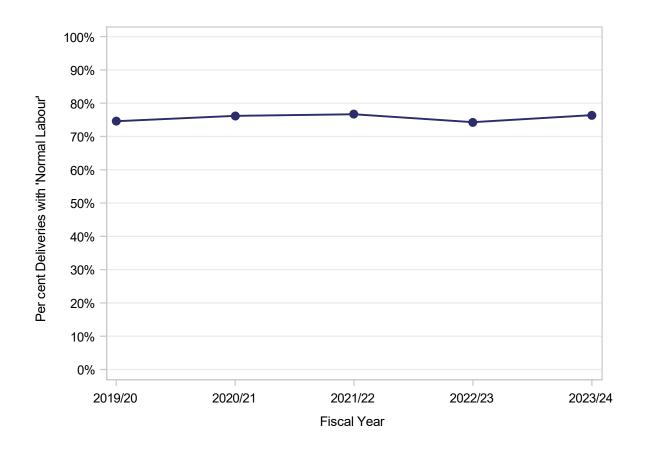
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

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.

Deliveries with 'Normal Childbirth'

Deliveries with 'Normal Labour'

Deliveries in Interior Health: April 1, 2019 - March 31, 2024



	Fiscal Year					
	2019/20 2020/21 2021/22 2022/23 202					
'Normal Childbirth'	74.6%	76.2%	76.7%	74.3%	76.4%	

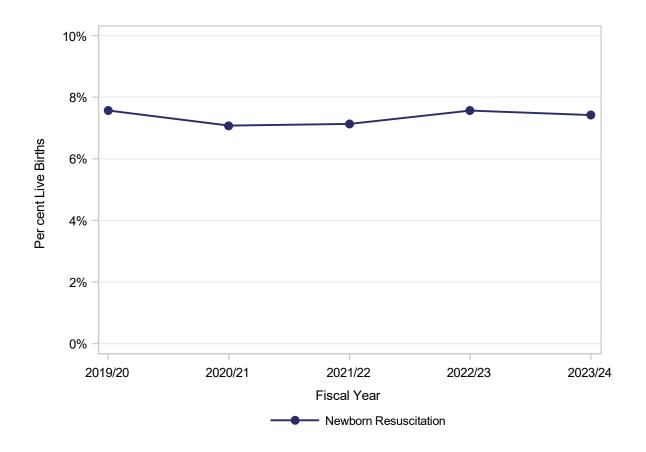
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

'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 Interior Health: April 1, 2019 - March 31, 2024



Newborn Resuscitation by Mode of Delivery

Babies Born from Deliveries with 'Normal Labour'

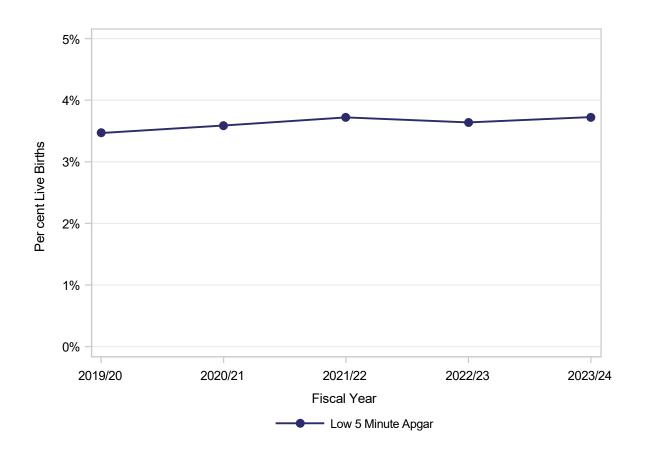
	Fiscal Year					
Mode of Delivery	2019/20	2020/21	2021/22	2022/23	2023/24	
Spontaneous Vaginal	5.6%	5.5%	5.8%	5.5%	5.7%	
Assisted Vaginal	13.6%	12.9%	9.4%	13.1%	10.4%	
Cesarean	15.2%	14.0%	15.2%	16.7%	17.2%	

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.

Low 5 Minute Apgar Score

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Interior Health: 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	2.4%	2.8%	3.1%	2.6%	3.1%	
Assisted Vaginal	7.2%	6.7%	2.5%	6.6%	5.5%	
Cesarean	7.3%	6.7%	9.4%	8.2%	7.0%	

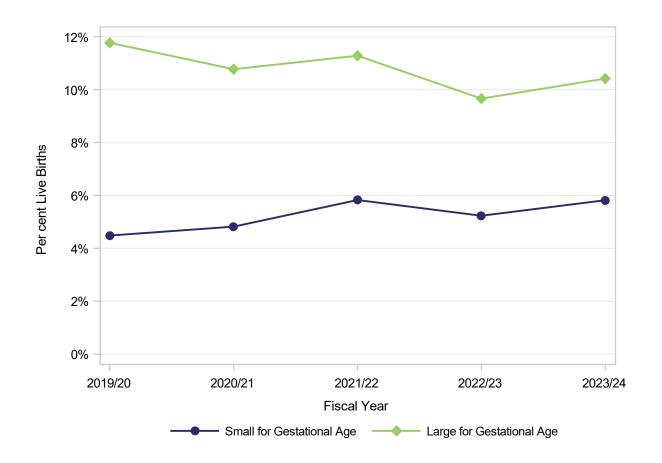
Deliveries with 'Normal Labour' are those where the woman has no history of cesarean delivery and delivers a singleton infant with the head as the presenting part between 37 and 41 estimated weeks' gestation after spontaneous onset of labour.

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 Interior Health: April 1, 2019 - March 31, 2024



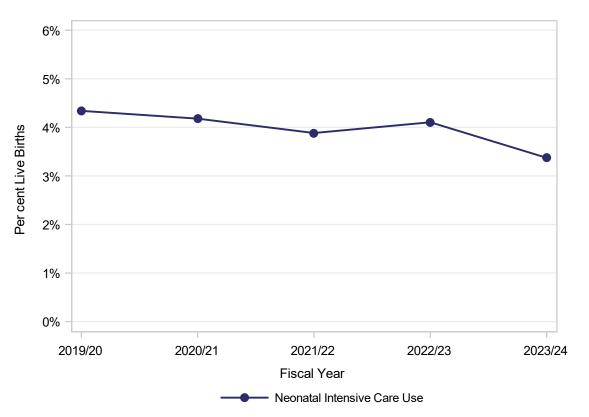
	Fiscal Year					
	2019/20	2020/21	2021/22	2022/23	2023/24	
Small for Gestational Age	4.5%	4.8%	5.8%	5.2%	5.8%	
Large for Gestational Age	11.8%	10.8%	11.3%	9.7%	10.4%	

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.

Neonatal Intensive Care Use During Birth Episode of Care

Babies Born from Deliveries with 'Normal Labour'

Deliveries in Interior Health: 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	3.4%	3.8%	3.0%	3.2%	2.9%		
Assisted Vaginal	4.5%	6.7%	7.9%	4.7%	4.9%		
Cesarean	9.9%	5.4%	7.4%	9.1%	5.6%		

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.

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

Section 1: Maternal Health

Delivery Within Home Health Authority

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

Deliveries to Residents of Other Health Authorities

- Deliveries to women who reside in a different Health Authority.
 - Deliveries at home with a registered midwife are always considered within the home Health Authority.
 - 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. <u>Gestational Hypertension</u> mother had hypertension diagnosed during pregnancy.
- 7. Unspecified Hypertension mother had hypertension diagnosed during pregnancy, but the specific type is not recorded.
- 8. 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

- Hepatitis B Test Done 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> Screening Program.
- Women who exclusively undergo privately paid screening tests are not included.

Types of Down Syndrome and Trisomy 18 Screening Performed

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

Uptake of Invasive Diagnostic Testing by Indication

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

Use of Artificial Reproductive Technology

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

Section 2: Labour and Delivery

Labour Augmentation

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

- Artificial Rupture of Membranes
- 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.
- Antepartum Hemorrhage woman had bleeding after 20 weeks' gestation but before labour.
- <u>Chorioamnionitis</u> 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

- <u>Vaginal</u>
 - 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.
 - Forceps the baby was delivered vaginally with the assistance of forceps.
 - <u>Forceps and Vacuum</u> the baby was delivered vaginally with the assistance of vacuum and forceps extractors.
- 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

- <u>VBAC Eligible</u> woman was either noted by a care provider as being eligible for VBAC in this pregnancy, OR whose eligibility was unknown and had a singleton pregnancy with the head as the presenting part.
- <u>VBAC Attempted</u> women 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.
- General 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.

Deliveries at Home

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

Length of Stay for Delivery Episode of Care

- Antepartum Length of Stay hours between when a woman is admitted to an acute care facility and when she delivers a baby.
- <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.
- <u>Wound Infection</u> mother had confirmed or suspected infection or disruption of an obstetric or surgical wound.
- <u>HELLP</u> mother had confirmed or suspected HELLP syndrome (Hemolysis, Elevated Liver enzymes, and Low Platelet count).
- 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.
- <u>Antepartum Hemorrhage with Transfusion</u> mother had an antepartum (≥20 weeks' gestation) or intrapartum bleed and received blood products via transfusion during the delivery episode.
- Eclampsia mother had confirmed or suspected eclampsia.
- Shock mother had confirmed or suspected obstetric shock.
- <u>Pulmonary Embolism</u> mother had a confirmed or suspected blood clot in the lungs.

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

Adverse Outcome of Labour or Delivery

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

- <u>Maternal Severe Adverse Event</u> woman experienced uterine rupture during labour, assisted ventilation or resuscitation, or in-hospital death.
- <u>Maternal Moderate Adverse Event</u> woman experienced third or fourth degree perineal tear; blood transfusion; or unanticipated operative procedure
- 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.
- <u>Higher Level</u> woman was transferred directly from the location at which she delivered to a facility that is capable of providing a higher intensity of care.
 - Third tier facilities BC Women's Hospital & Health Centre, St. Paul's Hospital Royal Columbian Hospital, and Victoria General Hospital.
 - Second tier facilities Surrey Memorial Hospital (effective April 1, 2013 discharges), Kelowna General Hospital, Nanaimo Regional General Hospital, Royal Inland Hospital, and University Hospital of Northern British Columbia.

Post-Delivery Admissions

- Total number of eligible inter-hospital transfers or readmissions among women who
 delivered a baby. A woman can have more than one Post-Delivery Admission. Ratio of
 Post-Delivery Admissions per 100 deliveries.
 - Admissions with a most responsible diagnosis of Z76.3 (Healthy person accompanying sick person) are excluded.
- <u>Diagnosis associated with Post-Delivery Admission</u> the diagnosis that accounted for the majority of time the woman stayed in hospital. May not be the reason for admission. Per 100 Post-Delivery Admissions.
 - The following account for the majority of diagnoses associated with Post-Delivery Admissions for 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.
- Complications of Anesthesia 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.
- <u>Pregnancy-Associated Mental Health</u> includes postpartum depression and puerperal psychosis.

Section 3: Newborn Health

Birth Type

Defined in accordance with BC Vital Stats.

- <u>Live Birth</u> baby displayed signs of life (breathing, heart beat, pulsation of umbilical cord, or 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

- Term baby was delivered at or after 37 completed weeks' estimated gestation.
- Preterm baby was delivered before 37 completed weeks' estimated gestation.
 - o <u>latrogenic Preterm</u> baby was delivered following induced labour or by cesarean delivery without labour, before 37 completed weeks' estimated gestation.
 - Spontaneous Pretem 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 here.

Low Birthweight Singletons

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

Newborn Resuscitation

- Baby received resuscitation by intermittent positive pressure, chest compressions, or drugs. Captures interventions up to 60 minutes of age or until admission to neonatal intensive care, whichever came first.
 - 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).
- <u>Transient Tachypnea</u> baby had confirmed or suspected transient tachypnea.
- Respiratory Distress Syndrome baby had confirmed or suspected respiratory distress syndrome.
- Sepsis baby had confirmed or suspected sepsis.
- Intracranial Hemorrhage baby had a confirmed or suspected brain bleed.

Congenital Anomalies

Anomaly may be diagnosed during any Baby Admission.

- Baby has a confirmed or suspected congenital anomaly noted by a care provider.
 - <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.
 - Eye, Ear, Face, or Neck includes malformations of the eye and its structures, tear ducts, internal and external ear, neck, and lips.
 - Genital Organs includes malformations of male or female genitals, and indeterminate sex or hermaphroditism.
 - Musculoskeletal System includes malformations of hip, feet, fingers, limbs, skull, spine, diaphragmatic hernia, and other malformations of the abdominal wall (including gastroschisis).
 - <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.
 - 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.

- <u>Exclusive Breastfeeding</u> 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.
 - <u>Click here</u> to access resources on the PSBC Neonatal Daily Classification Tool.

Transfer to Another Hospital

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

Post-Neonatal Admissions

- <u>Post-Neonatal Admission</u> total number of baby transfer or readmission episodes. A
 baby can have more than one Post-Neonatal Admission. Ratio of Post-Neonatal
 Admissions per 100 live births.
 - Admissions with a most responsible diagnosis of Health supervision and care
 of other healthy infant and child, Healthy person accompanying sick person, or
 Other boarder in health-care facility (Z76.2, Z76.4, or Z76.4) are excluded.
- <u>Diagnosis Associated with Post-Neonatal Admission</u> the diagnosis that accounted for the majority of time the baby stayed in hospital. May not be the reason for admission. Per 100 Post-Neonatal Admissions.
 - The following account for the majority of diagnoses associated with Post-Neonatal Admissions for 2019/20 to 2023/24, inclusive:

- Jaundice
- Low Birth Weight or Preterm Birth
- <u>Feeding Problems</u> includes reflux, feeding difficulties, abnormal weight loss, and dehydration.
- <u>Congenital Anomalies</u> includes all congenital malformations, deformations, and chromosomal abnormalities.
- 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.

- <u>Crude Stillbirths</u> baby was born deceased.
 - o Crude Stillbirth Rate = stillbirths / (live births + stillbirths) x 1,000.
- <u>Stillbirths >=500q</u> baby weighing ≥500g was born deceased.
 - o 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
 - Late Neonatal Mortality Rate = late neonatal death / live births x 1,000.
- <u>Post Neonatal Death</u> baby born alive died in hospital between 28 and 364 days after birth.
 - 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</u> on <u>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	Admission MOTHER_ADMISSION.screen_source = "DL" or "PP"	
		For any woman whose Delivery Admission meets the inclusion criteria, above.
Post-Delivery	<u>y Admission</u>	MOTHER_ADMISSION.screen_source = "PP" or (MOTHER_ADMISSION.screen_source = "DL" and actual_place_of_delivery=2) AND most responsible diagnosis is not Z76.3
		For any woman whose Delivery Admission meets the inclusion criteria, above.
<u>Delivery</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_A DMISSION.discharge_date ≤ March 31, 2020	
2020/21	screen_source = "DL" AND April 1, 2020 ≤ MOTHER_A DMISSION. discharge_date ≤ March 31, 2021	
2021/22	screen_source = "DL" AND April 1, 2021 ≤ MOTHER_A DMISSION.discharge_date ≤ March 31, 2022	
2022/23	screen_source = "DL" AND April 1, 2022 ≤ MOTHER_A DMISSION.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)	

frome = "Y" te ≥ April 1, 2012 te < April 1, 2012 AND frome ≠ "Y" te ≥ April 1, 2012 AND frome ≠ "Y" array	AND AND OR OR	diagnosis_code begins with O15 diagnosis_code begins with O142 diagnosis_code begins with O11 diagnosis_code begins with O14 diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248 diagnosis_code begins with O245, O246, or O247
te ≥ April 1, 2012 te < April 1, 2012 AND drome ≠ "Y" te ≥ April 1, 2012 AND drome ≠ "Y" 3 or 14 5 or 16	AND AND OR OR	diagnosis_code begins with O142 diagnosis_code begins with O11 diagnosis_code begins with O14 diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
te ≥ April 1, 2012 te < April 1, 2012 AND drome ≠ "Y" te ≥ April 1, 2012 AND drome ≠ "Y" 3 or 14 5 or 16	AND AND OR OR	diagnosis_code begins with O142 diagnosis_code begins with O11 diagnosis_code begins with O14 diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
te ≥ April 1, 2012 te < April 1, 2012 AND drome ≠ "Y" te ≥ April 1, 2012 AND drome ≠ "Y" 3 or 14 5 or 16	AND AND OR OR	diagnosis_code begins with O142 diagnosis_code begins with O11 diagnosis_code begins with O14 diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
te < April 1, 2012 AND trome ≠ "Y" te ≥ April 1, 2012 AND trome ≠ "Y" 3 or 14 5 or 16	AND AND OR OR	diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O16
drome ≠ "Y" te ≥ April 1, 2012 AND drome ≠ "Y" 3 or 14 5 or 16	AND AND OR OR	diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O16
drome ≠ "Y" te ≥ April 1, 2012 AND drome ≠ "Y" 3 or 14 5 or 16	AND AND OR OR	diagnosis_code begins with O140, O141, or O149 diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O16
te ≥ April 1, 2012 AND drome ≠ "Y" 3 or 14 5 or 16	OR OR	diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
drome ≠ "Y" 3 or 14 5 or 16	OR OR	diagnosis_code begins with O10 diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
3 or 14 5 or 16	OR	diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
5 or 16	OR	diagnosis_code begins with O13 diagnosis_code begins with O16 diagnosis_code begins with O248
5 or 16	OR	diagnosis_code begins with O16 diagnosis_code begins with O248
5 or 16	OR	diagnosis_code begins with O248
5 or 16	OR	diagnosis_code begins with O248
5 or 16	OR	diagnosis_code begins with O248
5 or 16	OR	diagnosis_code begins with O248
5 or 16	OR	
	OR	diagnosis code begins with 0245, 0246, or 0247
	UN	diagnosis_code for mother = Z37xx1 or baby = Z38xx1
g = "Y"		
= "Y"		
: "Y" and		
nitor_external ≠ "Y" and		
nitor_internal ≠ "Y" and		
toring ≠ "Y"		
· "Y" and		
nitor_external = "Y" and		
nitor_internal ≠ "Y" and		
toring ≠ "Y"		
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illoi external + i and		
nitor_internal = "Y" and	- -	
nitor_internal = "Y" and toring ≠ "Y"		
nitor_internal = "Y" and toring ≠ "Y" ≠ "Y" and		
nitor_internal = "Y" and toring ≠ "Y" ≠ "Y" and nitor_internal ≠ "Y" and		
nitor_internal = "Y" and toring ≠ "Y" ≠ "Y" and		
t	nitor_internal ≠ "Y" and toring ≠ "Y" E"Y" and nitor_external ≠ "Y" and nitor_internal = "Y" and toring ≠ "Y" ≠ "Y" and nitor_internal ≠ "Y" and	nitor_internal ≠ "Y" and toring ≠ "Y" E "Y" and nitor_external ≠ "Y" and nitor_internal = "Y" and toring ≠ "Y" ≠ "Y" and nitor_internal ≠ "Y" and

	PDR variables		CIHI Codes
	(average to the first of the fi		
	(auscultation ≠ "Y" and		
	elec_fetal_monitor_internal ≠ "Y" and		
	elec_fetal_monitor_external ≠ "Y" and		
	no_fetal_monitoring ≠ "Y")		
Delivery Provider			
Obstetrician	delivered_by = 2 or 6 for any infant		
Surgeon	else if delivered_by = 12 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) procedure_code does not begin with 5MD60
Family Practice + Vaginal	else if delivered_by = 1 or 8	AND	procedure_code does not begin with 5MD60
Midw if e	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 mother
	delivered by = 3 or 7 for any infant or		or baby record
	actual_place_of_delivery = 1 or 2		5, 23.2, 1000.12
Delivery at Home	institution_id = 976 or 977 or		
20	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
фіцаі	cpiddrai_ng = 1	- OK	5MD or 5PC
General	general_flg = "Y"	OR	anesthetic_type = 1 or 4 for a procedure_code beginning with
General	general_rig = 1	OIX	5MD or 5PC
Local	local fig = "Y"	OR	anesthetic type = 7 for a procedure code beginning with
Local	local_rig = f	UK	5MD or 5PC
Narcotic	narcotic_flg = "Y"		SIVID OF SPC
Spinal	spinal_flg = "Y"	OR	anesthetic_type = 2 for a procedure_code beginning with
Outlier Color of Friday			5MD or 5PC anesthetic_type = C for a procedure code beginning with
Combined Spinal and Epidural			
Other	ather flor IIVII arrandon del flor II VIII		5MD or 5PC
Other	other_flg = "Y" or pudendal_flg = "Y"		
No Anesthetic	none_flg = "Y"		
Perineal Trauma			
Third or Fourth Degree Laceration	laceration_flg = "Y" AND	OR	diagnosis_code begins with 0702 or 0703
	laceration_degree = 3 or 4		
Episiotomy	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,
			5MD56PG, 5MD56PB, 5MD56PE, or 5MD56PH
Assisted Vaginal			procedure_code begins with 5MD53, 5MD54, 5MD55,
			5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC, 5MD56PF, or
			5MD56PJ
Vacuum			procedure_code begins with 5MD54
Forceps			procedure_code begins with 5MD53, 5MD56NN, 5MD56NR,
			5MD56NW, 5MD56PC, 5MD56PF, or 5MD56PJ
Forceps and Vacuum			procedure_code begins with 5MD55
			procedure_code begins with 5MD54
			AND
			any of the following procedure codes is also on the abstract:
			5MD53, 5MD55, 5MD56NN, 5MD56NR, 5MD56NW,
			5MD56PC, 5MD56PF, or 5MD56PJ
Cesarean			procedure_code begins with 5MD60
	csection_type = 1, 2, 3, or 4	AND	no procedure code begins with 5MD5 or 5MD60
Emergency Primary	csection_type = 2	AND	procedure_code begins with 5MD60 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 Eligible	(vbac_eligible = "Y" and		
	prev_cesarian_deliv ≥1)		
	OR		
	(vbac_eligible = "U" or " " and		
	baby_presentation_delivery = 6 and		
	prev_cesarian_deliv ≥1 and		
	Maximum(baby_sequence) = 1)		
	(vbac_eligible = "U" or " " and	AND	procedure_code begins with 5MD5
	baby_presentation_delivery = 9 and		
	gestational age ≥ 37 and		
	prev_cesarian_deliv ≥1 and		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Maximum(baby_sequence) = 1)		
VBAC Attempted	(vbac_attempted = "Y" and		
	prev_cesarian_deliv is ≥1)		
	OR (vbac attempted = "U", "A", or " " and		
	prev cesarian deliv ≥1 and		
	((labour ind flg = "Y") or (labour spont flg = "Y")		
VBAC Success	and labour_aug_flg = "Y"))) Woman VBAC Eligible and VBAC Attempted	V VID	procedure code hogins with EMDE
V DAG GUCCESS	(above)	AND	procedure_code begins with 5MD5
Maternal Morbidity	(above)	-	
wiater nai wior bidity			<u> </u>

	PDR variables	1	CIHI Codes
Liver Complications (updated 2016)	pp_fatty_liver = "Y" or pp_liver_hematoma = "Y"	OR	diagnosis_code begins with K760, O266, or O904
Urinary Tract Infection (updated 2016)	pp_uti = "CY", "PY", "OT", "UN"	OR	diagnosis_code begins with N10, N11, N12, N15, N30, N34, N390, O23, O861, O862, or O863
Sepsis (updated 2016)	pp_pos_blood_culture = "Y"	OR	diagnosis_code begins with A40, A41, O753, or O85
Wound Infection	pp_w ound_infection = "Y"	OR	diagnosis_code begins with O860 or T814
Postpartum Hemorrhage with Transfusion	pp_wound_infection = "Y" blood_transfusion_flg = "Y"	AND	diagnosis_code begins with O860 or T814 diagnosis_code begins with O72
Postpartum Hemorrhage with Hysterectomy			diagnosis_code begins with O72 AND (procedure_code begins with 5MD60CB, 5MD60KE, 5MD60RC, or 5MD60RD; OR procedure_code begins with 1RM87LAGX and extent = SU; OR procedure_code begins with 1RM89 AND there is no procedure code beginning with 1PL74, 1RS74, or 1RS80)
Antepartum Hemorrhage with Transfusion	blood transfusion flg = "Y" and risk code = 8	·	<u> </u>
, ,	blood_transfusion_flg = "Y"	AND	diagnosis_code begins with O441, O45, O46, O67, or O694
Eclampsia		1	diagnosis code begins with O15
HELLP	pp hellp syndrome = "Y"		
	discharge date ≥ April 1, 2012	AND	diagnosis code begins with O142
Anesthetic Complications	<u> </u>		diagnosis_code begins with O29, O740, O741, O742, O743, O744, O747, O748, O749, O89, or T885
Shock			diagnosis_code begins with 0751
Stroke			diagnosis_code begins with G459, l6, or l7 diagnosis_code begins with Ö88
Pulmonary Embolism			diagnosis_code begins with 088
Adverse Outcome of Labour or Delivery			
Moderate Maternal Adverse Outcome	screen source = "DL" AND blood_transfusion_flg = "Y" OR (laceration_flg = "Y" AND laceration_degree = 3 or 4)	OR	diagnosis_code begins with O702 or O703 OR procedure_code begins with 5PC73JT, 5PC80JM, 5PC91GA, or 5PC91GC OR (diagnosis_code begins with O722 AND procedure_code begins with 1KT51, 1RM13, 1RM87LAGX, 1RM89, 5MD60CB, 5MD60KE, 5MD60RC, 5MD60RD, 5PC91HT, or 5PC91LA)
Moderate Neonatal Adverse Outcome	screen_source = "NB" and admission_w eight ≥ 2,500 and gestational age ≥ 37 and ((nicu_ii+nicu_iii ≥ 2) OR (Length of stay <24 hours and institution_to = 104, 202, 109, 116, 703, 609, 501, 401, 302, 130, 115,	AND	diagnosis_code does not begin with P832 or Q

	PDR variables		CIHI Codes
	112, or 102)		
	OR		
	(0 ≤ apgar_5 minutes <7))		
Severe Maternal Adverse Outcome	screen_source = "DL"	AND	diagnosis_code begins with O7118, O95 or O97 OR
			procedure_code begins with 1GZ30CJ, 1GZ30JH, 1GZ31CAND, 1GZ31CBND, 1GZ31CRND, 1GZ31GPND, 1GZ38JAND, 1GZ38JANE, 1GJ50CANG, or 1GJ50CATS
Severe Neonatal Adverse Outcome	screen_source = "NB" and admission_weight ≥ 2,500 and gestational age ≥ 37 and (discharge to = "D" or stillbirth = "A")	AND	diagnosis_code does not begin with P832 or Q
	(discharge_to = "D" or stillbirth = "A") screen_source = "NB" and admission_weight ≥ 2,000	AND	diagnosis_code begins with P100, P101, P104, P108, P109, P113, P114, P115, P122, P13 (excluding P134), P140, P141, P142, P143, P148, or P149
Maternal Length of Stay		†	<u> </u>
Antepartum Length of Stay	For the Delivery Episode of Care, hours between (delivery_date delivery_time - admission_date admission_time) where institution_id for the Delivery Admission ≠ 976 or 977		
Postpartum Length of Stay	For the Delivery Episode of Care, hours between (discharge_date discharge_time – delivery_date delivery_time) where institution_id for the Delivery Admission ≠ 976 or 977		
Total Length of Stay	For the Delivery Episode of Care, hours between (discharge_date discharge_time – admission_date admission_time) where institution_id for the Delivery Admission ≠ 976 or 977		
Maternal Transfers			
Transferred to Acute Care	screen_source= "DL" and institution_to = 101, 102, 104, 105, 106, 107, 109, 111, 112, 113, 115, 116, 121, 123, 128, 130, 131, 134, 135, 136, 201, 202, 203, 204, 206, 217, 301, 302, 303, 305, 309, 401, 402, 403, 404, 405, 406, 408, 409, 417, 419, 501, 502, 507, 508, 510, 511, 601, 602, 603, 604, 606, 609, 651, 654, 655, 701, 702, 703, 704, 705, 707, 708, 713, 714, 715, 716,		

	PDR variables		CIHI Codes
	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	<u> </u>	
Transfer to a Higher Level of Care	screen_source = "DL" AND discharge_date < April		
	1, 2013 AND		
	(institution id \neq 104, 109, 202, 102, 302, 401, 703,		
	or 501 AND institution to = 104, 105, 109, 202,		
	102, 302, 401, 703, or 501)		
	OR		
	(institution id ≠ 104, 109, 202, or 102		
	AND institution_to =104, 105, 109, 202, or 102)		
	screen_source = "DL" AND discharge_date ≥ April		
	1, 2013		
	AND (institution_id ≠ 104, 109, 202, 102, 116, 302, 401, 703, or 501		
	AND institution to = 104, 105,109,116, 202, 102,		
	302, 401, 703, or 501)		
	,		
	OR		
	(inatitution id ≠104, 100, 202, or 102		
	(institution_id ≠104, 109, 202, or 102 AND institution_to = 104, 105, 109, 202, or 102)		
Post-Delivery Admission Diagnoses	7112		
Routine Postpartum Care (updated 2016)	Post-Delivery Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with Z390,
			Z392, or Z488
Postpartum Hemorrhage	Post-Delivery Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with O72
Postpartum Infection (updated 2016)	Post-Delivery Admission	AND	diagnosis type = "M" and diagnosis cd begins with A40,
Postpartum infection (updated 2010)	Post-Delivery Admission	AND	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 073
Pregnancy-Associated Mental Health	Post-Delivery Admission	AND	i 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,

	PDR variables		CIHI Codes
			O89, or T885
Multiple Gestation	multiple_birth_count >1		
In-Hospital Perinatal Mortality			
Crude Stillbirths (includes complete late	stillbirth = "A", "P", or "U"		
pregnancy terminations)			
Stillbirth >=500g	stillbirth = "A", "P", or "U" and		
	admission_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		
Birth Injury			diagnosis_code begins with P100, P101, P104, P108, P109,
			P11, P12, P13, P14, or P15
Neonatal Morbidity			
Sepsis	baby pos blood culture = "Y"	OR	diagnosis_code begins with A40, A41, or P36
Intracranial Hemorrhage			diagnosis_code begins with P10 or P52 diagnosis_code begins with P220
Respiratory Distress Syndrome			diagnosis code begins with P220
Transient Tachypnea			diagnosis_code begins with P221
Other Respiratory Condition			diagnosis_code begins with A481, J, P228, P229, P23-P27,
			P280, P281, P282, P283, P284, P288, P289, Q30-Q34,
			Q791, R091, or Z902
	0 ≤ apgar_5_minutes <7	AND	diagnosis_code begins with P285
Any Neonatal Morbidity			diagnosis_code begins with A40, A41, A481, J, P10, P220,
			P221, P228, P229, P23-P27, P36, P280, P281, P282, P283,
			P284, P288, P289, P52, Q30-Q34, Q791, R091, or Z902
	0 ≤ apgar_5_minutes <7	AND	diagnosis_code begins with P285
Congenital Anomalies			
Any Congenital Anomaly			diagnosis_code begins with Q
Chromosomal			diagnosis_code begins with Q90-Q99
Circulatory System			diagnosis_code begins with Q20-Q28
Cleft Lip or Palate			diagnosis_code begins with Q35-Q37
Digestive System			diagnosis_code begins with Q38-Q45 diagnosis_code begins with Q10-Q18 diagnosis_code begins with Q50-Q56
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 Respiratory System			
Respiratory System			diagnosis_code begins with Q00-Q07
			diagnosis_code begins with Q30-Q34
Urinary System			diagnosis_code begins with Q30-Q34 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)		
	w here		
	institution_id for the Birth Admission ≠ 976 or 977		
Newborn Feeding			
Exclusive Breastfeeding	new born_feeding = "BR"		
Non-Exclusive Breastfeeding	new born_feeding = "BF"		
No Breastfeeding	new born_feeding = "BF" new born_feeding = "FR" new born_feeding = "BR" or "BF"		
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		
	Based on gestational age, sex,		
	multiple_birth_count, and admission_weight		
	w here		
<u>.</u>	screen_source = "NB" and sex = "M" or "F"		
Large for Gestational Age	Baby's weight is above the 90" percentile for		
	gestational age and sex		
	Based on gestational age, sex,		
	multiple_birth_count, and admission_weight		
	where		
	screen_source = "NB" and sex = "M" or "F"		
Low Birthweight Singletons	screen_source = "NB" and		
	5 ≤ admission_w eight < 2500 and stillbirth = "N" and		
	multiple birth count = 1		
Premature Birth	manpo_pitii_comt = i		
	gestational age <37 and labour spont flg = "Y"		
Spontaneous Preterm	gestational age <37 and labour sport rig = Y		
	labour none flg = "Y" and		
	(cesarean type = 0	ΩR	Mother does not have a procedure code beginning with
	(occarean_type = 0	OI (5MD60)
latrogenic Preterm	gestational age <37 and		- CILDOU)
	labour_ind_flg = "Y"		
	gestational age <37 and		
	labour none flg = "Y" and		
	cesarean_type = 1, 2, 3, or 4		

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

	PDR variables		CIHI Codes
	institution_id = 102, 112, 121, 130, 302, 401, 501,		
	609, or 703 and		
	institution_to = 101, 102, 106, 107, 111, 112, 113,		
	115, 121, 123, 128, 130, 131, 134, 135, 136,		
	201, 203, 204, 206, 217, 301, 302, 303, 305,		
	309, 401, 402, 403, 404, 405, 406, 408, 409,		
	417, 419, 501, 502, 507, 508, 510, 511, 601,		
	602, 603, 604, 606, 609, 651, 654, 655, 701,		
	702, 703, 704, 705, 707, 708, 713, 714, 715,		
	716, 717, 752, 753, 754, 755, 756, 801, 803,		
	804, 851, 854, 859, 901, 902, 903, 904, 906,		
	907, 912, 917, 918, or 929		
Resuscitation After Birth	ippv_mask_flg = "Y" or		
	ippv_ett_flg = "Y" or		
	chest_compress_flg = "Y" or		
<u></u>	drugs = "Y"		
Post-Neonatal Admission Diagnoses		<u>.</u>	
Jaundice	Post-Neonatal Admission	AND	, 3 = 11
		<u> </u>	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,
		<u> </u>	P741, P7881, P92, R633, or R634
Respiratory Infections	Post-Neonatal Admission	AND	diagnosis_type = "M" and diagnosis_cd begins with A37,
		<u> </u>	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
		ļ <u></u>	(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
Lhinam. Track hefactions	Doct No control Administra		diagnosis type = "M" and diagnosis cd begins with N390 or
Urinary Tract Infections	Post-Neonatal Admission	AND	P393
1			•
soimmunization "Normal Labour"	labour apont fla = "V" and	ļ	diagnosis_type = "M" and diagnosis_cd_begins with P55
NOTHIAL LADOUR	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 fig ≠ "Y" and	Δ ΚΙΓ	procedure code does not begin with 5MD53, 5MD54,
	spinal_flg ≠ "Y" and	- AIND	5MD55, 5MD56NN, 5MD56NR, 5MD56NW, 5MD56PC,
	episiotomy flg ≠ "Y"		5MD56PF, 5MD56PJ, or 5MD60
	Episiotottiy_tig + t	:	; SIVIDOUT IT, SIVIDOUTS, OF SIVIDOU

	PDR variables	CIHI Codes
		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_ad mis ≥ 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) where first_stage_date and second_stage_date ≠ null and labour_none_flg ≠ "Y"	
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.