British Columbia Reproductive Care Program

British Columbia Perinatal Database Registry Annual Report 2003



Working to Optimize
Fetal, Maternal and Infant Health in British Columbia

ACKNOWLEDGEMENTS

The Ministry of Health (Hospital Programs) and the British Columbia Medical Association (BCMA) under the auspices of the Continuing Advisory Subcommittee on Perinatal Care initiated the British Columbia Reproductive Care Program (BCRCP) in June 1988. A small but dedicated group of individuals, committed to ensuring that information on perinatal health was made available to a wide audience of professionals and planners, founded the British Columbia Perinatal Database Registry (BCPDR) in 1993. Notably, these included Dr. Sidney Effer, Dr. William J. Ehman, Dr. Margaret Pendray, Mr. Peter Hayles and Dr. Alan Thomson with the support of the BC Ministry of Health.

The BCRCP is pleased to present the first British Columbia Perinatal Database Registry Annual Report and wishes to recognise all the above mentioned for their vision and dedication.

The BCRCP wishes to thank the members of the 2003 Reports Development Committee for their diligent work in bringing this task to fruition.

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HIGHLIGHTS AND EXECUTIVE SUMMARY

This first Annual Report includes perinatal data from two fiscal years (April 1 to March 31) 2001/2002 and 2000/2001. Where possible, data from both fiscal years are reported but for the Neonatal/Perinatal/Infant Mortality reports, only data from the year 2000/ 2001 are available.

Only singleton pregnancies, deliveries and births are included. The data provide evidence regarding issues pertaining to the care of mothers and newborns in British Columbia. BC residents who delivered out of province were not captured.

Some of the key findings of this report are:

- Teen birth rates are highest in the Northeast, Northern Vancouver Island and East Kootenay HSDAs at 11.3%, 9.6% and 10.6% respectively for 2001/2002.
- The maternal smoking rate decreased in 2001/2002 and remains low relative to Quebec and the Atlantic Provinces (Canadian Perinatal Health Report, 2000).
- The provincial percentage of mothers breastfeeding (partial or exclusive) at discharge is high, at 91.9% in 2001/2002.
- Among the health authorities, there was no consistency of higher or lower rates of induction, when compared with the provincial level of 22.5% in 2001/2002.
- In 2001/2002, the Vancouver Island HA rate of electronic fetal monitoring in labour was well below the provincial average (81.4%) at 71.1%, with the Northern Vancouver Island HSDA reporting the lowest rate at 55.4%.
- The episiotomy rate has risen slightly in most health authorities, the exception being the Vancouver Island HA.
- The caesarean section rate has risen over the two years and remains higher than the national rate of 21%.
- Postpartum length of stay for both vaginal birth and caesarean section is lowest in the Fraser HA.
- In 2001/2002, the provincial low birth weight rate (which includes very low birth weight) was 4.0%, with very little variation amongst the health authorities.
- There is considerable difference in the stillbirth rate between health service delivery areas, with the lowest rate in the Northern Interior (1.9 per 1,000 births) and the highest rate in the Northeast (9.8 per 1,000 births), although both HSDAs are within the same health authority.

The following are highlights of the detailed discussion on induction of labour, presented in the In Focus section of this report:

- Overall induction rates in BC were 22.5% in 2001/2002 and 21.2% in 2000/2001.
- Excluding the PHSA, induction rates were consistent across the other health authorities.
- The Northern HA had the lowest induction rates overall in 2001/2002 at 20.4%.
- The induction rate for nullipara was above the provincial average at 26.8% in 2001/2002 and 25.3% in 2000/2001. Approximately 1 in 4 nulliparous pregnancies are being induced.
- The most common reason cited for induction was post-dates pregnancy.
- The most common reason for failed induction (for post-dates pregnancy) leading to C/Section was dystocia/CPD.
- Amongst the sub-group of nullipara, a finding of dystocia/CPD accounted for close to one quarter of the C/Sections.

It should be noted that the data described in this report only includes singleton pregnancies, deliveries and births.

BC women who deliver in Alberta hospitals are not captured in the BC Perinatal Database Registry. Therefore data from high outflow communities bordering Alberta may be skewed.

Definitions for terms used throughout the report can be found on starting on page 48.

BACKGROUND

The Ministry of Health (Hospital Programs) and the British Columbia Medical Association (BCMA) under the auspices of the Continuing Advisory Subcommittee on Perinatal Care (CASC) initiated the British Columbia Reproductive Care Program (BCRCP) in June 1988. The BCRCP is overseen by a Provincial Perinatal Steering Committee and has representation from the Ministry of Health and Ministry of Children and Family Development (MOH, MCFD), the Provincial Health Services Authority (PHSA), Children's and Women's Health Centre of BC, health care providers, health authorities and academic organisations.

One of the mandates of the BCRCP is "the collection and analysis of data to evaluate perinatal outcomes, care processes and resources via a province-wide computerized database". This mandate led to the development of the British Columbia Perinatal Database Registry (BCPDR), with its stated mission to collect, maintain, analyse and disseminate comprehensive, province-wide perinatal data for the purposes of monitoring and improving perinatal care. Rollout of the Registry began in 1994, with collection of data from a small number of hospital sites. Participation increased every year, resulting in full provincial data collection commencing April 1, 2000. The BCPDR is a relational database containing over 300 fields, and now with complete provincial data, it is a valuable source of perinatal information.

Data Collection

The BCPDR consists of data from obstetrical facilities and births occurring at home attended by BC Registered Midwives. Participation in the registry is voluntary and currently accounts for approximately 99% of births in the Province (The 1% covers births that are not reported/recorded).

BC women who deliver in Alberta hospitals are not captured in the BC Perinatal Database Registry. Therefore data from high outflow communities bordering Alberta may be skewed.

The perinatal data presented in this report are collected from facilities throughout the province and imported into the central BC Perinatal Database Registry. Data from the Canadian Institute for Health Information (CIHI) and matched files from the British Columbia Vital Statistics Agency complement the data elements. The 2000/2001 deaths represented in this report consist of singleton pregnancy deaths identified by the BCPDR supplemented by deaths identified by Vital Statistics records, in order to provide complete mortality data for babies up to one year of age.

INTRODUCTION

This first BCPDR Annual Report describes the current state of perinatal health in British Columbia (BC) and will serve as the baseline to monitor future trends and changes for the selected indicators. These indicators have been chosen by the Reports Development Committee because they are clinically relevant and lend themselves to analysis that may suggest changes in care delivery. It must be remembered that this report is only one source of data to monitor trends and guide policy and clinical practice.

Definitions for terms used throughout the report can be found on page 48.

Methodological Issues:

The first Annual Report includes perinatal data from two fiscal years (April 1 to March 31) 2001/2002 and 2000/2001. Where possible, data for both fiscal years are reported, but for the Neonatal/Perinatal/Infant Mortality reports, only data from the year 2000/2001 are available. Only singleton pregnancies, deliveries and births are included. Health Service Delivery Areas (HSDAs) and Health Authorities (HAs) are based on either place of delivery (i.e. where the birth occurs) or place of residence (i.e. where the mother lives). Data limitations or methodological issues concerning the data source are noted in the text that accompanies each indicator.

The data contain only linked mothers and newborns for each fiscal year. The year in which this data set is contained is dependent on when the discharge occurs. If the data for mother and newborn are from different fiscal years then the data are reported in the fiscal year in which the last individual is discharged. See the following examples:

- If a woman gives birth March 28, 2002 and is discharged March 31, 2002 and the newborn is also discharged March 31, 2002, then their information is contained in the 2001/2002 fiscal year data.
- If a woman gives birth March 28, 2002 and is discharged March 31, 2002 and the newborn is discharged April 4, 2002, then the data for both mother and newborn will be contained in the fiscal year 2002/2003 data set, not the 2001/2002 data set.

The Annual Report is divided into:

Section I

Demographics and Human Resource Indicators

- Population of Women in BC Aged 15 54, 2002 and 2001
- Changes in Birth Rate and Fertility Rate in BC, 1952 2002
- Care Provider for Delivery by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

Section II

Maternal Indicators

- Teen Birth Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Maternal Smoking Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Breastfeeding at Discharge Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Induction of Labour Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Electronic Fetal Monitoring Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Episiotomy Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Method of Delivery Rate (Vaginal vs. C/Section) by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Postpartum Length of Stay Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

Section III

Fetal and Newborn Indicators

- Low and Very Low Birth Weight Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001
- Neonatal/Perinatal/Infant Mortality Rates by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2000/2001
- Neonatal/Perinatal/Infant Mortality Rates by Maternal Age, 2000/2001
- Neonatal/Perinatal/Infant Mortality Rates by Birth Weight, 2000/2001

Section IV

In Focus

The In Focus section deals with a specific topic in greater detail than in Section I. The criteria for selecting an In Focus topic are that it deals with a clinically interesting question, (in part this is determined by the number and type of requests received by BCRCP) and gives expanded details on selected issues. Strategies employed in the selection of a topic include:

- examining the number of requests received by BCRCP to determine if there exists a critical mass for a topic
- identifying a recent issue in the media (either public or research) that could be enhanced with some analysis of data from BCRCP

For this issue of the Annual Report, the In Focus question deals with induction of labour stratified by parity:

- Rate of induction of nullipara and parity ≥ 1 by mode of delivery (Vaginal vs. C/Section)
- Rate of induction of nullipara and parity ≥ 1 by C/Section by primary reason for C/Section

Section V

References and Appendices

Reference is made throughout the document to BCRCP resources, e.g. clinical practice guidelines, for select indicators. These references can be accessed on the BCRCP web site at http://www.rcp.gov.bc.ca.

SECTION I

DEMOGRAPHICS AND HUMAN RESOURCE INDICATORS



SECTION I **DEMOGRAPHICS AND HUMAN** RESOURCE INDICATORS

Population of Women in BC Aged 15 - 54, 2002 and 2001

According to Statistics Canada, in 2002 the female population aged 15 - 54 in BC was 1,224,879 or 49.8% of the total population of the same age group. There was only a very slight increase in the population count from 2001, which was 1,216,706 or 49.7% of the total population of the same age group.

Table 1

Population of Women in BC Aged 15 - 54, 2002 and 2001								
	2002	2	2001					
AGE	#	%	#	%				
15-19	134,102	10.9	133,143	10.9				
20-24	139,454	11.4	135,494	11.1				
25-29	134,543	11.0	135,212	11.1				
30-34	153,087	12.5	153,146	12.6				
35-39	169,633	13.8	173,471	14.3				
40-44	177,089	14.6	175,985	14.5				
45-49	168,249	13.7	163,882	13.5				
50-54	148,722	12.1	146,373	12.0				
Total Females Population Aged 15 - 54	1,224,879	100.0	1, 21 6,706	100.0				
	1,224,079	100.0	1, 210,700	100.0				
Total Population Aged 15 - 54	2,458,738		2, 24 6,384					

Population counts are based on calendar year

Source: Statistics Canada

Historical Population Counts from 1971 - 2002

Figures are as of July 1 of the year stated

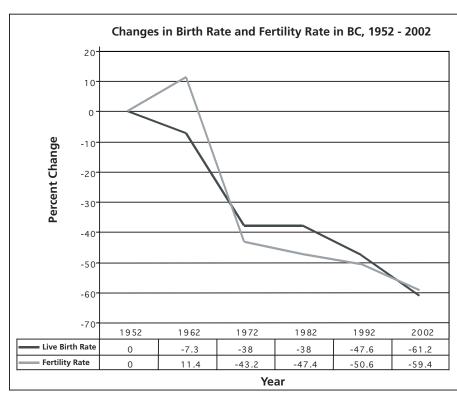
Changes in Birth Rate and Fertility Rate in BC, 1952 - 2002

The proportion of women delaying childbirth has increased in Canada in recent years (Canadian Perinatal Health Report, 2000). Antepartum complications associated with this delay include pre-eclampsia, placenta previa (associated with antenatal hospital admissions) and chronic medical conditions; intrapartum complications may include malpresentations and operative delivery (Prysak & Lorenz, 1995). Other studies have shown that infants born to older mothers are at increased risk for pre-term birth and intrauterine growth restriction (Canadian Perinatal Health Report, 2000).

Along with this delay, the actual rate of live births has shown a steady downward trend over the last five decades. Fertility rates have closely matched this decline, as shown in the following time-trend analysis.

Live birth rates and fertility rates have been extrapolated using 1952 as the baseline year of adjustment and 2002 as the ending year for the analysis. In 1952, the fertility rate per thousand and birth rate per thousand was 3,327 and 24.8, respectively. In 2002, the fertility rate per thousand and birth rate per thousand was 1,351 and 9.6, respectively. As observed in Figure 1, both fertility rates and births rates have decreased by 59.4% and 61.2% since 1952.

Figure 1



Source: BC Vital Statistics Agency Annual Report 2002 - see Appendix 4

Care Provider for Delivery by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 2)

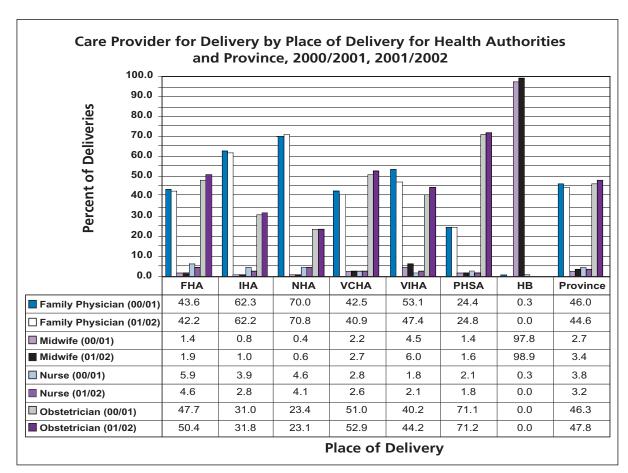
Analysis of this report is by place of delivery because in most cases it is the practice of care at an institution that determines who is the care provider for delivery.

In 2001/2002, 47.8% of parturients were attended by an obstetrician and 44.6% were attended by a family physician. Midwives and nurses were each care providers for delivery in approximately 3% of the cases, with 1.0% attributed to "other" care providers. In 2000/2001, the care provider for delivery was evenly distributed between family physicians and obstetricians at 46.0% and 46.3% respectively.

The overall rate and number of deliveries by family physicians was down in 2001/2002 at 44.6% (17,492 births) from 46.0% (18,097 births) in 2000/2001.

Within the health authorities for 2001/2002, family physicians performed the majority of deliveries in the Interior (62.2%) and the Northern HA (70.8%). Obstetricians performed the majority of deliveries in PHSA (71.2%). Obstetricians also performed the majority of deliveries in the Vancouver Coastal HA (52.9%). In 98.9% of occurrences, home deliveries were attended by midwives. While midwives performed deliveries in all health authorities, the highest percentage was in the Vancouver Island HA where they were responsible for delivering 6.0% of the births. Fraser South HSDA had the highest number of nurse deliveries at 6.9% in 2001/2002 and 8.8% in 2000/2001.

Figure 2



Health A	Health Authority (HA) Legend			
FHA	Fraser			
IHA	Interior			
NHA	Northern			
VCHA	Vancouver Coastal			
VIHA	Vancouver Island			
PHSA	PHSA Provincial Health Services Authority			
HB	Home Births			

Care Provider for Delivery by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 Table 2

Primary			_				2	2001	/2002							
Final					Mid	wife	Nu	rse	Obstet	rician	Otl	her	Unkı	nown	То	tal
FN	НА	HSDA	#	%	#	%										
Total	FHA	FE	1619	64.5	26	1.0	112	4.5	746	29.7	6	0.2	1	0.0	2510	100.0
FS FS FS FS FS FS FS FS		FN	2481	49.4	131	2.6	108	2.2	2210	44.0	92	1.8	0	0.0	5022	100.0
Math Final Math		FS	1391	25.4	86	1.6	379	6.9	3592	65.7	20	0.4	0	0.0	5468	100.0
Mathematical Result Mathematical Result	Total		5491	42.2	243	1.9	599	4.6	6548	50.4	118	0.9	1	0.0	13000	100.0
No. Process	IHA	EK	396	69.5	11	1.9	30	5.3	91	16.0	42	7.4	0	0.0	570	100.0
Total		KB	322	61.3	29	5.5	12	2.3	158	30.1	4	0.8	0	0.0	525	100.0
NHA NE		OK	1451	57.4	15	0.6	74	2.9	983	38.9	5	0.2	0	0.0	2528	100.0
NH		TC	1214	66.9	0	0.0	36	2.0	498	27.4	68	3.7	0	0.0	1816	100.0
N	Total		3383	62.2	55	1.0	152	2.8	1730	31.8	119	2.2	0	0.0	5439	100.0
No	NHA	NE	688	80.3	0	0.0	25	2.9	138	16.1	6	0.7	0	0.0	857	100.0
Total VBA 78.0 19 0.6 135 4.1 766 23.1 4.7 1.4 1 0.0 33.4 100.0 VCHA NSCG 1020 55.7 57 3.1 64 3.5 649 35.4 42.2 2.0 0.0 0 1182 100.0 VANC 437 25.2 75 3.1 0.1 0.1 119 65.3 5.0 0 0 0 0 0 731 100.0 TOIAI CUI 588 32.1 68 3.7 43 2.4 1143 61.4 5 0.0 <		NI	996	65.6	19	1.3	73	4.8	396	26.1	34	2.2	0	0.0	1518	100.0
VCHA NSCG 1020 5.57 5.7 3.1 64 3.5 649 3.5 4.2 2.3 0 0.0 1822 100 100 1441 100 100 140 100 100 140 100 100 0 0 0 1441 100 100 100 0 0 100 100 100 100 100 0 0 0 00 00 100 0 0 0 00 00 00 0 0 0 00 0		NW	662	70.5	0	0.0	37	3.9	232	24.7	7	0.7	1	0.1	939	100.0
Pich See 40.8 1 0.1 0.1 0.5 0.5 0.9 0.0 0.0 1.44 10.00	Total		2346	70.8	19	0.6	135	4.1	766	23.1	47	1.4	1	0.0	3314	100.0
VANC	VCHA	NSCG	1020	55.7	57	3.1	64	3.5	649	35.4	42	2.3	0	0.0	1832	100.0
Total		RICH	588	40.8	1	0.1	51	3.5	798	55.4	3	0.2	0	0.0	1441	100.0
Viral		VANC	437	25.2	75	4.3									1731	
NVI	Total		2045	40.9	133	2.7	130	2.6	2646	52.9	50	1.0	0	0.0	5004	100.0
SVI	VIHA	CVI	598	32.1	68	3.7	45	2.4	1143	61.4	5	0.3	4	0.2	1863	100.0
Note		NVI	203	46.8	31	7.1	7	1.6	193	44.5	0	0.0	0	0.0	434	100.0
Priorial Figure Priorial Figure Priorial Figure Priorial Figure Priorial Figure Priorial Figure Figur		SVI	l		230		66				7		0	0.0		
PHSA 1612 24.8 103 1.6 116 1.8 4637 71.2 43 0.7 0 0.0 6511 100 Province 17492 44.6 1332 3.4 1250 3.2 18762 47.8 39.4 1.0 6 0.0 39336 100.0 Family Family Mily Notes No	Total												4			
Province	PHSA		1612	24.8	103	1.6	116	1.8	4637	71.2	43	0.7		0.0	6511	100.0
Family	НВ		0	0.0	450	98.9	0	0.0	0	0.0	5	1.1		0.0	455	100.0
Fa	Province	e	17492	44.6	1332	3.4	1250	3.2	18762	47.8	394	1.0	6	0.0	39236	100.0
Ha							2	2000	/2001							
Ha			Fan	nilv												
FHA FE 1585 65.3 24 1.0 114 4.7 696 28.7 9 0.4 0 0.0 2428 100.0 FN 2547 50.4 85 1.7 176 3.5 2098 41.5 144 2.9 0 0.0 5605 100.0 FS 1473 27.4 77 1.4 473 8.8 3338 62.1 16 0.3 2 0.0 5379 100.0 Total 5605 43.6 186 1.4 763 5.9 6132 47.7 169 1.3 2 0.0 100.0 100.0 HA EK 458 74.0 0 0.0 25 4.0 1110 17.8 26 4.2 0 0.0 60.0 0.0 100.0 CKB 333 62.0 27 5.0 14 2.6 148 27.6 152 2.8 0 0.0 2594 <th></th> <th></th> <th></th> <th></th> <th>Mid</th> <th>wife</th> <th>Nu</th> <th>rse</th> <th>Obstet</th> <th>rician</th> <th>Otl</th> <th>her</th> <th>Unk</th> <th>nown</th> <th>То</th> <th>tal</th>					Mid	wife	Nu	rse	Obstet	rician	Otl	her	Unk	nown	То	tal
FN	НА	HSDA	#	%	#	%	#	%	#	%	#	%	#	%	#	%
FS	FHA	FE	1585	65.3	24	1.0	114	4.7	696	28.7	9	0.4	0	0.0	2428	100.0
Total 5605 43.6 186 1.4 763 5.9 6132 47.7 169 1.3 2 0.0 12857 100.0 IHA EK 458 74.0 0 0.0 25 4.0 110 17.8 26 4.2 0 0.0 619 100.0 KB 333 62.0 27 5.0 14 26 148 27.6 15 2.8 0 0.0 2594 100.0 OK 1521 58.6 20 0.8 87 3.4 951 36.7 15 0.6 0 0.0 2594 100.0 Total 3457 62.3 47 0.8 218 3.9 1718 31.0 109 2.0 0 0.0 1599 100.0 NHA NE 621 75.4 0 0.0 19 2.3 180 21.8 4 2.2 1 0.1 1573 100.0		FN	2547	50.4	85	1.7	176	3.5	2098	41.5	144	2.9	0	0.0	5050	100.0
HA		FS	1473	27.4	77	1.4	473	8.8	3338	62.1	16	0.3	2	0.0	5379	100.0
KB 333 62.0 27 5.0 14 2.6 148 27.6 15 2.8 0 0.0 537 100.0 TC 1145 63.6 0 0.0 92 5.1 509 28.3 53 2.9 0 0.0 1799 100.0 TO 1145 63.6 0 0.0 0.92 5.1 509 28.3 53 2.9 0 0.0 0.0 1799 100.0 TO 1145 63.6 0 0.0 0.92 5.1 509 28.3 53 2.9 0 0.0 0.0 5549 100.0 TO 1145 63.6 0 0.0 0.92 5.1 509 28.3 53 2.9 0 0.0 0.0 5549 100.0 TO NHA NE 621 75.4 0 0.0 19 2.3 180 21.8 4 0.5 0 0.0 824 100.0 NW 704 71.8 1 0.1 33 3.4 230 23.4 12 1.2 1 0.1 1573 100.0 TO NW 704 71.8 1 0.1 33 3.4 230 23.4 12 1.2 1 0.1 1573 100.0 TO TO 182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0 TO RICH 651 46.5 0 0.0 3.9 2.8 706 50.5 3.0 0.2 0.0 0.0 1399 100.0 TO VANC 329 19.8 63 3.8 24 1.4 1229 73.8 17 1.0 3 0.2 1665 100.0 TO TO 485 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0 TO SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 TO TO TO 185 3.4	Total		5605	43.6	186	1.4	763	5.9	6132	47.7	169	1.3	2	0.0	12857	100.0
OK	IHA	EK	458	74.0	0	0.0	25	4.0	110	17.8	26	4.2	0	0.0	619	100.0
TC 1145 63.6 0 0.0 92 5.1 509 28.3 53 2.9 0 0.0 1799 100.0 Total 3457 62.3 47 0.8 218 3.9 1718 31.0 109 2.0 0 0.0 5549 100.0 NHA NE 621 75.4 0 0.0 19 2.3 180 21.8 4 0.5 0 0.0 824 100.0 NI 1040 66.1 13 0.8 103 6.5 382 24.3 34 2.2 1 0.1 1573 100.0 NW 704 71.8 1 0.1 33 3.4 230 23.4 50 1.5 2 0.1 3378 100.0 Total 2365 70.0 14 0.4 155 4.6 792 23.4 50 1.0 0 2019 100.0 VHA		KB	333	62.0	27	5.0	14	2.6	148	27.6	15	2.8	0	0.0	537	100.0
Total 3457 62.3 47 0.8 218 3.9 1718 31.0 109 2.0 0 0.0 5549 100.0 NHA NE 621 75.4 0 0.0 19 2.3 180 21.8 4 0.5 0 0.0 824 100.0 NI 1040 66.1 13 0.8 103 6.5 382 24.3 34 2.2 1 0.1 1573 100.0 NW 704 71.8 1 0.1 33 3.4 230 23.4 12 1 0.1 981 100.0 Total 2365 70.0 14 0.4 155 4.6 792 23.4 50 1.5 2 0.1 3378 100.0 VCHA NSCG 1182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0		OK	1521	58.6	20	8.0	87	3.4	951	36.7	15	0.6	0	0.0	2594	100.0
NHA NE 621 75.4 0 0.0 19 2.3 180 21.8 4 0.5 0 0.0 824 100.0 NI 1040 66.1 13 0.8 103 6.5 382 24.3 34 2.2 1 0.1 1573 100.0 NW 704 71.8 1 0.1 33 3.4 230 23.4 12 1.2 1 0.1 981 100.0 VCHA NSCG 1182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0 VCHA NSCG 1182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0 VANC 329 19.8 63 3.8 24 1.4 1229 73.8 17 1.0 3 0.2 1665		TC	1145	63.6	0	0.0	92	5.1	509	28.3	53	2.9	0	0.0	1799	100.0
NI	Total		3457	62.3	47	0.8	218	3.9	1718	31.0	109	2.0	0	0.0	5549	100.0
NW 704 71.8 1 0.1 33 3.4 230 23.4 12 1.2 1 0.1 981 100.0 Total 2365 70.0 14 0.4 155 4.6 792 23.4 50 1.5 2 0.1 3378 100.0 VCHA NSCG 1182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0 RICH 651 46.5 0 0.0 39 2.8 706 50.5 3 0.2 0 0.0 1399 100.0 VANC 329 19.8 63 3.8 24 1.4 1229 73.8 17 1.0 3 0.2 1665 100.0 Total 2162 42.5 111 2.2 142 2.8 2592 51.0 72 1.4 4 0.1 503 100.0	NHA	NE	621	75.4	0	0.0	19	2.3	180	21.8	4	0.5	0	0.0	824	100.0
Total 2365 70.0 14 0.4 155 4.6 792 23.4 50 1.5 2 0.1 3378 100.0 VCHA NSCG 1182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0 RICH 651 46.5 0 0.0 39 2.8 706 50.5 3 0.2 0 0.0 1399 100.0 VANC 329 19.8 63 3.8 24 1.4 1229 73.8 17 1.0 3 0.2 1665 100.0 Total 2162 42.5 111 2.2 142 2.8 2592 51.0 72 1.4 4 0.1 5083 100.0 VIHA CVI 685 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0		NI	1040	66.1	13	0.8	103	6.5	382	24.3	34	2.2	1	0.1	1573	100.0
VCHA NSCG 1182 58.5 48 2.4 79 3.9 657 32.5 52 2.6 1 0.0 2019 100.0 RICH 651 46.5 0 0.0 39 2.8 706 50.5 3 0.2 0 0.0 1399 100.0 VANC 329 19.8 63 3.8 24 1.4 1229 73.8 17 1.0 3 0.2 1665 100.0 Total 2162 42.5 111 2.2 142 2.8 2592 51.0 72 1.4 4 0.1 5083 100.0 VIHA CVI 685 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0 NVI 233 56.0 29 7.0 3 0.7 151 36.3 0 0.0 0 0 0 416<		NW	704	71.8	1	0.1	33	3.4	230	23.4	12	1.2	1	0.1	981	100.0
RICH 651 46.5 0 0.0 39 2.8 706 50.5 3 0.2 0 0.0 1399 100.0	Total		2365	70.0	14	0.4	155	4.6	792	23.4	50	1.5	2	0.1	3378	100.0
VANC 329 19.8 63 3.8 24 1.4 1229 73.8 17 1.0 3 0.2 1665 100.0 Total 2162 42.5 111 2.2 142 2.8 2592 51.0 72 1.4 4 0.1 5083 100.0 VIHA CVI 685 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0 NVI 233 56.0 29 7.0 3 0.7 151 36.3 0 0.0 0 0.0 416 100.0 SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0	VCHA	NSCG	1182	58.5	48	2.4	79	3.9	657	32.5	52	2.6	1	0.0	2019	100.0
Total 2162 42.5 111 2.2 142 2.8 2592 51.0 72 1.4 4 0.1 5083 100.0 VIHA CVI 685 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0 NVI 233 56.0 29 7.0 3 0.7 151 36.3 0 0.0 0 0 416 100.0 SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0 PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 <t< td=""><td></td><td>RICH</td><td>651</td><td>46.5</td><td>0</td><td>0.0</td><td>39</td><td>2.8</td><td>706</td><td>50.5</td><td>3</td><td>0.2</td><td>0</td><td>0.0</td><td>1399</td><td>100.0</td></t<>		RICH	651	46.5	0	0.0	39	2.8	706	50.5	3	0.2	0	0.0	1399	100.0
ViHA CVI 685 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0 NVI 233 56.0 29 7.0 3 0.7 151 36.3 0 0.0 0 0 416 100.0 SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0 PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 0.0 362 100.0		VANC	329	19.8	63	3.8	24	1.4	1229	73.8	17	1.0	3	0.2	1665	100.0
ViHA CVI 685 39.4 55 3.2 36 2.1 958 55.1 4 0.2 1 0.1 1739 100.0 NVI 233 56.0 29 7.0 3 0.7 151 36.3 0 0.0 0 0 416 100.0 SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0 PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 0.0 362 100.0	Total		2162	42.5	111	2.2	142	2.8	2592	51.0	72	1.4	4	0.1	5083	100.0
NVI SVI 233 56.0 29 7.0 3 0.7 151 36.3 0 0.0 0 0.0 416 100.0 SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0 PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 362 100.0	VIHA	CVI	685	39.4	55	3.2	36	2.1	958	55.1	4	0.2	1	0.1	1739	100.0
SVI 1939 60.2 158 4.9 56 1.7 1052 32.7 16 0.5 0 0.0 3221 100.0 Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0 PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 362 100.0		NVI														
Total 2857 53.1 242 4.5 95 1.8 2161 40.2 20 0.4 1 0.0 5376 100.0 PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 362 100.0		SVI														
PHSA 1650 24.4 95 1.4 140 2.1 4818 71.1 70 1.0 0 0.0 6773 100.0 HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 362 100.0	Total				242								1	0.0		
HB 1 0.3 354 97.8 1 0.3 0 0.0 6 1.7 0 0.0 362 100.0																
	пр							U, a	U	0.0	6	1.7	U	U.U	302	

Health Au	Health Authority (HA)				
FHA	Fraser HA				
IHA	Interior HA				
NHA	Northern HA				
VCHA	Vancouver Coastal HA				
VIHA	Vancouver Island HA				
PHSA	Provincial Health Services Authority				
HB Home Births					

Health S	Service Delivery Area (HSDA)
FE	East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

SECTION II

MATERNAL INDICATORS



SECTION II MATERNAL INDICATORS

Teen Birth Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 3)

It is a challenge to calculate teen pregnancy rates, as the number of miscarriages is often unknown and in British Columbia there is no easy way of linking abortion information with pregnancy/birth information. What is known is that the Canadian teen birth rates in the 15 - 19 year age group have declined year after year from a peak of 5.6% (of all teen births in Canada) in 1997.

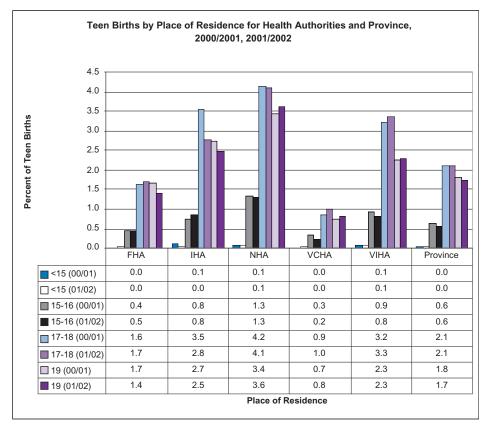
Typically, teen pregnancies are characterised by delayed entry into prenatal care and lower rates of prenatal care. Tobacco, alcohol and other substance use is reported to be higher among pregnant adolescents (Fraser, Brochert & Ward, 1995). In addition, their babies are at increased risk of prematurity and growth restriction (ibid). Information on teen pregnancy rates or teen birth rates is an important public heath indicator, as Canadian studies have shown that a combination of reproductive health information and the availability of contraceptive counseling can substantially reduce teen pregnancy, abortions and births (Fraser et al, 1995).

The calculation of the percentage of teen births for this report is based on the place of residence of the mother. In 2001/2002, 1,758 teenage girls (ages 13 - 19 years) gave birth in BC, a slight decrease from 2000/2001 at 1,822 births. The highest percentage of births for both years was found among the 17 - 18 year old age group, just over 2% of the provincial births for each year. Not surprisingly, the lowest percentage of births was found among those girls under the age of 15 years, at less than one percent. This corresponds to the rate for Canada as a whole (Canadian Perinatal Health Report, 2000).

Within the health authorities, in 2001/2002, the Northwest HSDA had the highest percentage of teen births at 11.3%, followed by East Kootenay at 10.6% and North Vancouver Island at 9.6%. As with the previous year, Richmond at 1.5% and Vancouver at 1.9% had the lowest percentage of births to teenagers. In 2000/2001, the Northern Vancouver Island HSDA had the highest percentage of teen births at 11.6%, followed by East Kootenay at 11.4% and the Northeast at 10.2%. Richmond had the lowest percentage of teen births at 1.5%, followed by Vancouver at 1.7%.

The BCPDR does not collect specific data on ethnicity. However, one explanation for the higher percentage of teen births in the Northern and Northern Vancouver Island HSDAs may be the clustering of Aboriginal communities in these areas. Aboriginal youth between 15 and 19 have a fertility rate more than four times that of the non-Aboriginal community (BC Vital Statistics Agency, 2002). As many teen pregnancies are unintended and as birth outcomes are generally poorer among teen mothers, it is important that attempts be made to reduce the teen pregnancy rate, particularly among the aboriginal groups (Miller, Lesser & Reed, 1996).





Health A	Health Authority (HA) Legend				
FHA	Fraser				
IHA	Interior				
NHA	Northern				
VCHA	Vancouver Coastal				
VIHA	Vancouver Island				

Table 3 Teen Births by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

2001/2002

								0 1/20	UL					
		<	:15	15-	16	1	7-18		19	Total Moti		Mothers >=20	Total N	others
HA	HSDA	#	%	#	%	#	%	#	%	#	%	#	#	%
FHA	FE	3	0.1	23	0.8	85	3.0	66	2.3	174	6.1	2694	2871	100.0
	FN	2	0.0	15	0.3	72	1.3	65	1.2	154	2.8	5314	5468	100.0
	FS	0	0.0	31	0.5	96	1.4	79	1.2	206	3.1	6547	6753	100.0
Total		5	0.0	69	0.5	253	1.7	210	1.4	537	3.6	14555	15092	100.0
IHA	EK	0	0.0	11	1.8	30	5.0	23	3.8	64	10.6	542	606	100.0
	KB	0	0.0	2	0.3	14	2.4	7	1.2	23	3.9	567	590	100.0
	OK	0	0.0	15	0.6	57	2.3	49	2.0	121	4.8	2382	2503	100.0
	TC	2	0.1	18	1.0	52	2.9	58	3.2	130	7.2	1677	1807	100.0
Total		2	0.0	46	0.8	153	2.8	137	2.5	338	6.1	5168	5506	100.0
NHA	NE	0	0.0	7	0.8	28	3.3	32	3.8	67	7.9	776	843	100.0
	NI	0	0.0	19	1.2	57	3.6	55	3.5	131	8.3	1445	1576	100.0
	NW	3	0.3	18	1.8	54	5.5	36	3.7	111	11.3	871	982	100.0
Total		3	0.1	44	1.3	139	4.1	123	3.6	309	9.1	3092	3401	100.0
VCHA	NSCG	0	0.0	6	0.3	29	1.3	24	1.1	59	2.7	2132	2191	100.0
	RICH	0	0.0	1	0.1	8	0.5	14	0.9	23	1.5	1511	1534	100.0
	VANC	1	0.0	15	0.3	55	1.0	37	0.7	108	1.9	5493	5601	100.0
Total		1	0.0	22	0.2	92	1.0	75	0.8	190	2.0	9136	9326	100.0
VIHA	CVI	1	0.1	24	1.3	81	4.3	55	2.9	161	8.5	1737	1898	100.0
	NVI	0	0.0	6	1.1	27	4.7	22	3.9	55	9.6	515	570	100.0
	SVI	3	0.1	17	0.5	82	2.6	53	1.7	155	4.8	3050	3205	100.0
Total		4	0.1	47	0.8	190	3.3	130	2.3	371	6.5	5302	5673	100.0
BCUNS	PEC	0	0.0	0	0.0	2	2.4	3	3.6	5	6.0	79	84	100.0
NONRE	S	0	0.0	0	0.0	4	2.6	4	2.6	8	5.2	146	154	100.0
Provinc	e	15	0.0	228	0.6	833	2.1	682	1.7	1758	4.5	37478	39236	100.0
							20	00/20	01					
			<15	1	5-16	1	7-18	,	19	Total Mot		Mothers >=20	Total I	Mothers
НА	HSDA	#	%	#	%	#	%	#	%	#	%	#	#	%
FHA	FE	0	0.0	15	0.5	71	2.6	77	2.8	163	6.0	2569	2732	100.0
	FN	1	0.0	22	0.4	78	1.4	70	1.3	171	3.1	5288	5459	100.0
	FS	0	0.0	30	0.4	93	1.4	102	1.5	225	3.3	6505	6730	100.0
Total		1	0.0	67	0.4	242	1.6	249	1.7	559	3.7	14362	14921	100.0
IHA	EK	1	0.2	12	1.9	30	4.6	31	4.8	74	11.4	574	648	100.0
	KB	0	0.0	2	0.3	13	2.2	5	0.8	20	3.3	581	601	100.0
	OK	2	0.1	14	0.5	71	2.8	54	2.1	141	5.5	2419	2560	100.0
	TC	4	0.2	15	0.8	86	4.7	65	3.5	170	9.2	1676	1846	100.0
Total		7	0.1	43	0.8	200	3.5	155	2.7	405	7.2	5250	5655	100.0
NHA	NE	0	0.0	9	1.1	37	4.5	37	4.5	83	10.2	734	817	100.0
	NI	0	0.0	16	1.0	64	4.0	47	2.9	127	8.0	1467	1594	100.0
	NW	2	0.2	21	2.0	42	4.1	34	3.3	99	9.6	934	1033	100.0
Total		2	0.1	46	1.3	143	4.2	118	3.4	309	9.0	3135	3444	100.0
VCHA	NSCG	0	0.0	14	0.6	26	1.1	24	1.0	64	2.7	2310	2374	100.0
	RICH	0	0.0	1	0.1	10	0.6	12	8.0	23	1.5	1526	1549	100.0
	VANC	0	0.0	16	0.3	47	0.8	33	0.6	96	1.7	5648	5743	100.0
Total		0	0.0	31	0.3	83	0.9	69	0.7	183	1.9	9484	9666	100.0
VIHA	CVI	2	0.1	12	0.7	58	3.2	47	2.6	119	6.6	1679	1798	100.0
	NVI	0	0.0	16	2.8	29	5.2	20	3.6	65	11.6	497	562	100.0
	SVI	2	0.4	23	0.7	00	0.0			470	E E	2973	2446	100.0
			0.1	23	0.7	90	2.9	58	1.8	173	5.5	2913	3146	100.0
Total		4	0.1	51	0.7	177	3.2	125	1.8 2.3	357	6.5	5149	5506	100.0
Total BCUNS														

NONRES

Province

0

0.0

0.0 238

0

0.0

0.6 846

0.7

2.1 724

1

5

3.7

1.8 1822

4.4

4.6

6

129

37556

135

39378

100.0

100.0

Health Auth	Health Authority (HA)				
FHA	Fraser HA				
IHA	Interior HA				
NHA	Northern HA				
VCHA	Vancouver Coastal HA				
VIHA	Vancouver Island HA				
PHSA	Provincial Health Services				
	Authority				
BCUNSPEC	BC residents with unknown				
	postal code				
NONRES	Non Resident of BC				

Health S	Service Delivery Area (HSDA)
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

Maternal Smoking Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 4)

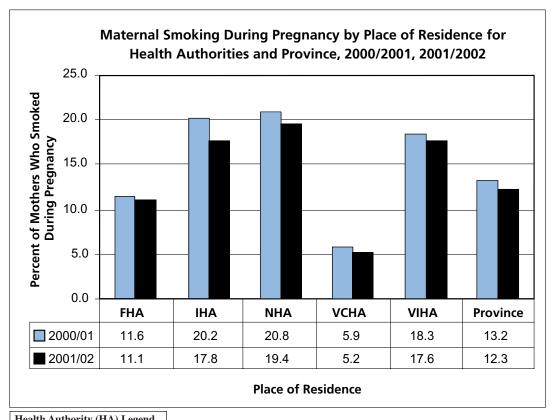
There is a substantial body of literature addressing the impact of maternal behaviors on infant health. Smoking in pregnancy is one lifestyle choice that is associated with poor birth outcomes, including low birth weight, prematurity, intrauterine growth restriction and stillbirth. According to the Canadian Institute of Child Health (CICH), "maternal smoking is the most clearly established preventable risk factor associated with low birth weight, and it is now accepted that the relationship is direct and causal". Decreasing the incentives to use tobacco, especially among teens, as well as reducing the involuntary exposure to nicotine of unborn children, must remain a high priority.

For the purposes of this report, maternal smoking is defined as smoking at any time during the current pregnancy. The knowledge that smoking during pregnancy can adversely affect the outcome of pregnancy may have resulted in mothers' under-stating their smoking behaviour. Research has shown that younger mothers are more likely to report smoking behaviour and that prevalence decreases with increasing maternal age (ibid). Across Canada, reported rates of smoking vary by province, with the highest rates in Quebec and the Atlantic Provinces and the lowest rates in BC and Ontario (Canadian Perinatal Health Report, 2000).

Overall, 12.3% of BC mothers smoked during pregnancy in 2001/2002. This was a slight decline from 13.2% in 2000/2001. For both years the rates were higher in the Northern and Interior HAs and lower in the Vancouver Coastal HA. The Northeast HSDA had a maternal smoking rate of 23.1% in 2001/2002. Other HSDAs with high rates of maternal smoking were Central Vancouver Island at 22.1%, East Kootenay at 20.5%, Kootenay/Boundary at 19.8% and Thompson Cariboo Shuswap at 20.0%. Richmond and Vancouver had the lowest rates, 4.5% and 4.8% respectively. The patterns for 2000/2001 were very similar.

The difference in rates between the northern communities and the lower mainland is noteworthy. It is important to continue to promote non-smoking in those HSDAs with low rates and to target interventions for smoking women in the high rate areas in order to promote a healthy lifestyle as early as possible.

Figure 4



Health Au	Health Authority (HA) Legend				
FHA	Fraser				
IHA	Interior				
NHA	Northern				
VCHA	Vancouver Coastal				
VIHA	Vancouver Island				

Table 4 **Maternal Smoking During Pregnancy by Place of Residence** for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

			200	01/2002			
		Ye	s	No)	To	tal
НА	HSDA	#	%	#	%	#	%
FHA	FE	458	16.0	2413	84.0	2871	100.0
	FN	546	10.0	4922	90.0	5468	100.0
	FS	674	10.0	6079	90.0	6753	100.0
Total		1678	11.1	13414	88.9	15092	100.0
IHA	EK	124	20.5	482	79.5	606	100.0
	KB	117	19.8	473	80.2	590	100.0
	OK	376	15.0	2127	85.0	2503	100.0
	TC	362	20.0	1445	80.0	1807	100.0
Total		979	17.8	4527	82.2	5506	100.0
NHA	NE	195	23.1	648	76.9	843	100.0
	NI	293	18.6	1283	81.4	1576	100.0
T. (.)	NW	173	17.6	809	82.4	982	100.0
Total		661	19.4	2740	80.6	3401	100.0
VCHA	NSCG	150	6.8	2041	93.2	2191	100.0
	RICH	69	4.5	1465	95.5	1534	100.0
	VANC	268	4.8	5333	95.2	5601	100.0
Total	0) //	487	5.2	8839	94.8	9326	100.0
VIHA	CVI	420	22.1	1478	77.9	1898	100.0
	NVI	105	18.4	465 2731	81.6	570	100.0
Tatal	SVI	474	14.8		85.2	3205	100.0
Total	DEC	999	17.6	4674	82.4	5673	100.0
BCUNS		17	20.2	67	79.8	154	100.0
NONRE		20 4841	13.0	134	87.0	154	100.0
Provinc	æ	4041	12.3	34395 00/2001	87.7	39236	100.0
			/()(M//W/			
		Ye			<u> </u>	To	tal
НА	HSDA	Ye		No	%	To:	tal %
HA FHA	HSDA FE		s				
		# 408	s % 14.9	No # 2324	% 85.1	# 2732	% 100.0
	FE	# 408 577	% 14.9 10.6	# 2324 4882	% 85.1 89.4	# 2732 5459	% 100.0 100.0
	FE FN	# 408	s % 14.9	No # 2324	% 85.1	# 2732	% 100.0
FHA	FE FN	# 408 577 739	% 14.9 10.6 11.0	# 2324 4882 5991	% 85.1 89.4 89.0	# 2732 5459 6730	% 100.0 100.0 100.0
FHA Total	FE FN FS	# 408 577 739 1724	% 14.9 10.6 11.0 11.6	# 2324 4882 5991 13197	% 85.1 89.4 89.0 88.4	# 2732 5459 6730 14921	% 100.0 100.0 100.0 100.0
FHA Total	FE FN FS EK	# 408 577 739 1724	% 14.9 10.6 11.0 11.6 22.2	# 2324 4882 5991 13197 504	% 85.1 89.4 89.0 88.4 77.8	# 2732 5459 6730 14921 648	% 100.0 100.0 100.0 100.0 100.0
FHA Total	FE FN FS EK KB	# 408 577 739 1724 144 98	% 14.9 10.6 11.0 11.6 22.2 16.3	# 2324 4882 5991 13197 504 503	% 85.1 89.4 89.0 88.4 77.8 83.7	# 2732 5459 6730 14921 648 601	% 100.0 100.0 100.0 100.0 100.0
FHA Total	FE FN FS EK KB OK	# 408 577 739 1724 144 98 479	\$ 14.9 10.6 11.0 11.6 22.2 16.3 18.7	# 2324 4882 5991 13197 504 503 2081	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3	# 2732 5459 6730 14921 648 601 2560	% 100.0 100.0 100.0 100.0 100.0 100.0
Total	FE FN FS EK KB OK	# 408 577 739 1724 144 98 479 423	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9	# 2324 4882 5991 13197 504 503 2081 1423	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3	# 2732 5459 6730 14921 648 601 2560 1846	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total	FE FN FS EK KB OK TC	# 408 577 739 1724 144 98 479 423	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2	# 2324 4882 5991 13197 504 503 2081 1423 4511	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1	# 2732 5459 6730 14921 648 601 2560 1846 5655	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total	FE FN FS EK KB OK TC	# 408 577 739 1724 144 98 479 423 1144 182 321	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3	# 2324 4882 5991 13197 504 503 2081 1423 4511 635	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7	# 2732 5459 6730 14921 648 601 2560 1846 5655	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total	FE FN FS EK KB OK TC	# 408 577 739 1724 144 98 479 423 1144 182	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7	# 2732 5459 6730 14921 648 601 2560 1846 5655 817	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC	# 408 577 739 1724 144 98 479 423 1144 182 321 212	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715	\$\frac{\psi}{4}.9\\ 10.6\\ 11.0\\ 11.6\\ 22.2\\ 16.3\\ 18.7\\ 22.9\\ 20.2\\ 20.3\\ 20.1\\ 20.5\\ 20.8\	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204	\$\frac{\psi}{14.9}\\ 10.6\\ 11.0\\ 11.6\\ 22.2\\ 16.3\\ 18.7\\ 22.9\\ 20.2\\ 20.3\\ 20.1\\ 20.5\\ 8.6\end{array}	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 8.6 4.3	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 20.3 20.1 20.5 20.8 8.6 4.3 5.2	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300 570	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 8.6 4.3 5.2 5.9	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444 9097	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300 570 383	\$\frac{\psi}{14.9}\$ 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 8.6 4.3 5.2 5.9 21.3 19.4	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444 9097 1415 453	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8 94.1 78.7 80.6	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW CG RICH VANC CVI NVI	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300 570 383 109	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 4.3 5.2 5.9 21.3	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444 9097 1415	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8 94.1 78.7	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300 570 383 109 514	\$\frac{\psi}{14.9}\$ 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 8.6 4.3 5.2 5.9 21.3 19.4 16.3	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444 9097 1415 453 2632	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8 94.1 78.7 80.6 83.7	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562 3146	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total VCHA Total VIHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300 570 383 109 514 1006	\$ % 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 8.6 4.3 5.2 5.9 21.3 19.4 16.3 18.3 20.0	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444 9097 1415 453 2632 4500 40	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8 94.1 78.7 80.6 83.7	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562 3146 5506	% 100.0
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 408 577 739 1724 144 98 479 423 1144 182 321 212 715 204 66 300 570 383 109 514 1006	\$ 14.9 10.6 11.0 11.6 22.2 16.3 18.7 22.9 20.2 22.3 20.1 20.5 20.8 8.6 4.3 5.2 5.9 21.3 19.4 16.3 18.3	# 2324 4882 5991 13197 504 503 2081 1423 4511 635 1273 821 2729 2170 1483 5444 9097 1415 453 2632 4500	% 85.1 89.4 89.0 88.4 77.8 83.7 81.3 77.1 79.8 77.7 79.9 79.5 79.2 91.4 95.7 94.8 94.1 78.7 80.6 83.7 81.7	# 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562 3146 5506	% 100.0

Health Authority (HA)				
FHA	Fraser HA			
IHA	Interior HA			
NHA	Northern HA			
VCHA	Vancouver Coastal HA			
VIHA	Vancouver Island HA			
PHSA	Provincial Health Services			
	Authority			
BCUNSPEC	BC residents with unknown			
	postal code			
NONRES	Non Resident of BC			

Health Se	ervice Delivery Area (HSDA)
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island

Breastfeeding at Discharge Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 5)

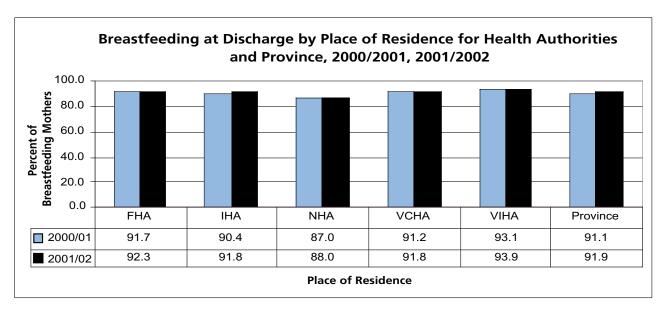
Exclusive and sustained breastfeeding provides nutritional, immunological and emotional nurturing for normal growth and development during the first year of a child's life (Breastfeeding Committee for Canada (BCC), 2002). Evidence has shown that exclusive breastfeeding for the first six months of life promotes lower risks of contracting respiratory disease, otitis media, gastroenteritis, bacterial meningitis, urinary tract infections and necrotizing enterocolitis (American Academy of Pediatrics, 1997). There is also a possible protective effect against low iron stores and anaemia in the infant.

There are benefits to individual women and communities, reflected in enhanced protection against cancers of the breast, ovary and endometrium, and by increasing the spacing between pregnancies (BCC, 2002).

The data from the BCPDR does not identify if breastfeeding was exclusive since the definition currently employed is breastfeeding at discharge, either exclusively or in combination with formula supplementation. Future revisions to the data fields of the BCPDR will include separate fields for each choice, with accompanying definitions, so that rates will reflect a more detailed picture.

The overall provincial percentage of mothers that were breastfeeding at discharge was very high in 2001/2002 at 91.9% and 91.1% in 2000/2001. In 2001/2002, the Vancouver Island and Fraser HA reported the highest percentage of breastfeeding at 93.9% and 92.3% respectively. The lowest percentage of breastfeeding occurred in the Northern HA with 88.0% in 2001/2002 and 87.0% in 2000/2001.

Figure 5



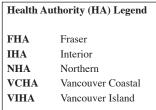


Table 5 Breastfeeding at Discharge by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

			`		2001/2002								
		Yes		No	2002	Unkn	own	To	tal	NA			
НА	HSDA	#	<u>%</u>	#	%	#	%	#	%	#			
FHA	FE	2555	89.3	236	8.3	69	2.4	2860	100.0	11			
	FN	5082	93.6	323	5.9	25	0.5	5430	100.0	38			
	FS	6199	92.5	460	6.9	41	0.6	6700	100.0	53			
Total		13836	92.3	1019	6.8	135	0.9	14990	100.0	102			
IHA	EK	545	90.1	49	8.1	11	1.8	605	100.0	1			
	KB	547	93.2	33	5.6	7	1.2	587	100.0	3			
	OK	2326	93.3	138	5.5	29	1.2	2493	100.0	10			
	TC	1614	89.9	154	8.6	28	1.6	1796	100.0	11			
Total		5032	91.8	374	6.8	75	1.4	5481	100.0	25			
NHA	NE	747	88.9	84	10.0	9	1.1	840	100.0	3			
	NI	1363	87.4	153	9.8	43	2.8	1559	100.0	17			
	NW	855	88.1	96	9.9	20	2.1	971	100.0	11			
Total		2965	88.0	333	9.9	72	2.1	3370	100.0	31			
VCHA	NSCG	2110	97.1	59	2.7	5	0.2	2174	100.0	17			
	RICH	1421	93.4	92	6.0	9	0.6	1522	100.0	12			
	VANC	4976	89.4	582	10.5	10	0.2	5568	100.0	33			
Total		8507	91.8	733	7.9	24	0.3	9264	100.0	62			
VIHA	CVI	1736	92.0	131	6.9	20	1.1	1887	100.0	11			
	NVI	522	92.2	31	5.5	13	2.3	566	100.0	4			
	SVI	3037	95.3	133	4.2	18	0.6	3188	100.0	17			
Total		5295	93.9	295	5.2	51	0.9	5641	100.0	32			
BCUNS	PEC	72	86.7	10	12.0	1	1.2	83	100.0	1			
NONRE	S	131	87.3	17	11.3	2	1.3	150	100.0	4			
Provinc		35838	91.9	2781	7.1	360	0.9	38979	100.0	257			
		35838	91.9	2781 2000/		360	0.9	38979	100.0	257			
Provinc	e	Yes	.	2000/ No	2001	Unkn	own	To	tal	NA			
Provinc	HSDA	Yes	s %	2000/ No #	2001 %	Unkn #	own %	To	ital %	NA #			
Provinc	HSDA FE	Yes # 2421	88.9	2000/ No # 239	2001 % 8.8	Unkn # 62	own % 2.3	To # 2722	htal % 100.0	NA # 10			
Provinc	HSDA FE FN	Yes # 2421 5025	% 88.9 92.8	2000/ No # 239 360	2001 % 8.8 6.6	Unkn # 62 29	own % 2.3 0.5	7c # 2722 5414	100.0 100.0	NA # 10 45			
HA FHA	HSDA FE	Yes # 2421 5025 6128	88.9 92.8 91.8	2000/ No # 239 360 501	2001 % 8.8 6.6 7.5	Unkn # 62 29 44	own % 2.3 0.5 0.7	770 # 2722 5414 6673	100.0 100.0 100.0	NA # 10 45 57			
HA FHA	HSDA FE FN FS	Yes # 2421 5025 6128 13574	88.9 92.8 91.8 91.7	2000/ No # 239 360 501 1100	2001 % 8.8 6.6 7.5 7.4	Unkn # 62 29 44 135	own % 2.3 0.5 0.7 0.9	70 # 2722 5414 6673 14809	100.0 100.0 100.0 100.0	NA # 10 45 57 112			
HA FHA	HSDA FE FN FS	Yes # 2421 5025 6128 13574 602	% 88.9 92.8 91.8 91.7 93.5	2000/ No # 239 360 501 1100 36	2001 % 8.8 6.6 7.5 7.4 5.6	Unkn # 62 29 44 135 6	own % 2.3 0.5 0.7 0.9	70 # 2722 5414 6673 14809 644	100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112			
HA FHA	HSDA FE FN FS EK KB	Yes # 2421 5025 6128 13574 602 548	88.9 92.8 91.8 91.7 93.5 91.5	2000/ No # 239 360 501 1100 36 41	2001 8.8 6.6 7.5 7.4 5.6 6.8	Unkn # 62 29 44 135 6 10	own % 2.3 0.5 0.7 0.9 1.7	# 2722 5414 6673 14809 644 599	100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2			
HA FHA	FE FN FS EK KB OK	Yes # 2421 5025 6128 13574 602 548 2355	88.9 92.8 91.8 91.7 93.5 91.5 92.6	2000/ No # 239 360 501 1100 36 41 158	2001 8.8 6.6 7.5 7.4 5.6 6.8 6.2	Unkn # 62 29 44 135 6 10 30	own % 2.3 0.5 0.7 0.9 1.7 1.2	7722 5414 6673 14809 644 599 2543	100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17			
HA FHA Total	HSDA FE FN FS EK KB	Yes # 2421 5025 6128 13574 602 548 2355 1581	88.9 92.8 91.8 91.7 93.5 91.5 92.6 86.1	2000/ No # 239 360 501 1100 36 41 158 177	2001 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6	Unkn # 62 29 44 135 6 10 30 79	0wn % 2.3 0.5 0.7 0.9 1.7 1.2 4.3	7722 5414 6673 14809 644 599 2543 1837	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9			
HA FHA Total IHA	FE FN FS EK KB OK TC	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086	88.9 92.8 91.8 91.7 93.5 91.5 92.6 86.1	2000/ No # 239 360 501 1100 36 41 158 177 412	2001 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3	Unkn # 62 29 44 135 6 10 30 79	own % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2	7722 5414 6673 14809 644 599 2543 1837 5623	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9			
HA FHA Total	FE FN FS EK KB OK TC	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086	88.9 92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7	2000/ No # 239 360 501 1100 36 41 158 177 412 82	2001	Unkn # 62 29 44 135 6 10 30 79 125	own % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2	# 2722 5414 6673 14809 644 599 2543 1837 5623	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10			
HA FHA Total IHA	FE FN FS EK KB OK TC NE NI	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5	Unkn # 62 29 44 135 6 10 30 79 125 9	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8			
HA FHA Total IHA Total NHA	FE FN FS EK KB OK TC	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 8			
HA FHA Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21	own % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8			
HA FHA Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89	0wn % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12			
HA FHA Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975	\$88.9 92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89	0wn % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 8 26 12 15			
HA FHA Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH	# 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975 2272 1416 5071	88.9 92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89 12 10 31	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12 15 38			
HA FHA Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975 2272 1416 5071 8759	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9 91.2	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604 790	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6 8.2	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89 12 10 31	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706 9602	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12 15 38 65			
HA FHA Total IHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	Yes # 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975 2272 1416 5071 8759	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604 790 111	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6 8.2 6.2	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89 12 10 31 53	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7 0.5	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706 9602 1783	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12 15 38 65 15			
HA FHA Total IHA Total VCHA	EK KB OK TC NE NI NW NSCG RICH VANC	# 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2272 1416 5071 8759 1656 499	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9 91.2	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604 790 111 43	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6 8.2 6.2 7.7	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89 12 10 31 53 16 13	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7 0.5 0.9	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706 9602 1783 555	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12 15 38 65 7			
HA FHA Total IHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW CG RICH VANC CVI NVI	# 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2272 1416 5071 8759 1656 499 2938	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9 91.2 92.9 89.9 93.8	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604 790 111 43 168	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6 8.2 6.2 7.7 5.4	# 62 29 44 135 6 10 30 79 125 9 21 89 12 10 31 53 16 13 25	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7 0.5 0.7 0.5	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706 9602 1783 555 3131	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12 15 38 65 15 7 15			
HA FHA Total IHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2272 1416 5071 8759 1656 499	88.9 92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9 91.2 92.9 89.9 93.8 93.1	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604 790 111 43	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6 8.2 6.2 7.7	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89 12 10 31 53 16 13	0WN % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7 0.5 0.9	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706 9602 1783 555	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 12 15 38 65 7			
HA FHA Total IHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 2421 5025 6128 13574 602 548 2355 1581 5086 716 1344 915 2975 2272 1416 5071 8759 1656 499 2938 5093	92.8 91.8 91.7 93.5 91.5 92.6 86.1 90.4 88.7 84.7 89.3 87.0 96.2 92.3 88.9 91.2 92.9 89.9 93.8	2000/ No # 239 360 501 1100 36 41 158 177 412 82 183 89 354 78 108 604 790 111 43 168 322	2001 % 8.8 6.6 7.5 7.4 5.6 6.8 6.2 9.6 7.3 10.2 11.5 8.7 10.4 3.3 7.0 10.6 8.2 6.2 7.7 5.4 5.9	Unkn # 62 29 44 135 6 10 30 79 125 9 59 21 89 12 10 31 53 16 13 25 54	0wn % 2.3 0.5 0.7 0.9 1.7 1.2 4.3 2.2 1.1 3.7 2.0 2.6 0.5 0.7 0.5 0.7 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	# 2722 5414 6673 14809 644 599 2543 1837 5623 807 1586 1025 3418 2362 1534 5706 9602 1783 555 3131 5469	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 10 45 57 112 4 2 17 9 32 10 8 8 26 15 38 65 15 37			

Health Authority (HA)					
FHA	Fraser HA				
IHA	Interior HA				
NHA	Northern HA				
VCHA	Vancouver Coastal HA				
VIHA	Vancouver Island HA				
PHSA	Provincial Health Services				
	Authority				
BCUNSPEC	BC residents with unknown				
	postal code				
NONRES	Non Resident of BC				

Health Se	ervice Delivery Area (HSDA)
FE	Fraser East
FN FS	Fraser North Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

NA – Stillbirths and Deaths

Induction of Labour Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

(Refer to Data Table 6)

Labour induction is an obstetric intervention associated with potential risks to both mother and infant. Induction is initiated when the risks of prolonging the pregnancy (for either mother or baby) outweigh the risks associated with the procedure. Indications for induction may include post term pregnancy, poorly controlled hypertension of pregnancy and prolonged rupture of membranes at term (BCRCP, Guideline for the Induction of Labour, 1999).

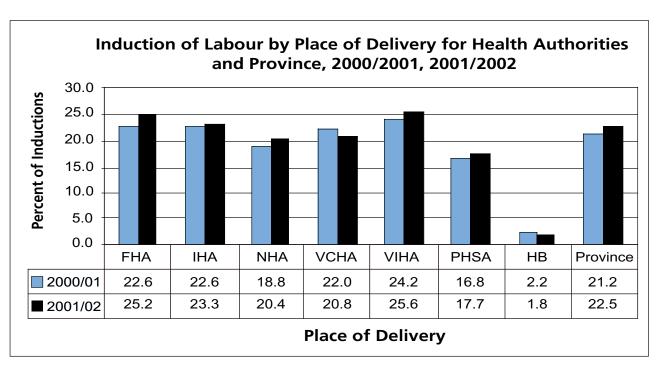
Induction rates in the data presented include both medical (oxytocin, prostaglandin) and surgical induction (artificial rupture of membranes).

The Provincial induction rate was 22.5% in 2001/2002 and 21.2% in 2000/2001. The majority of inductions occurred in hospital. The induction rate among home births was considerably lower at 1.8% in 2001/2002 and 2.2% in 2000/2001. In 2001/2002, the Fraser and Vancouver Island HAs had the highest induction rate at 25.2% and 25.6% respectively. The lowest rate among the health authorities was the Northern HA with a rate of 20.4%.

Within the health authorities, there was no consistently higher or lower rate of induction when compared to the provincial level. For example, the South Vancouver Island HSDA had the highest rate in 2001/2002 at 26.7%. The Northern Interior, Northwest, Thompson Cariboo Shuswap, North Shore/Coast Garibaldi and Richmond HSDAs had rates all below the provincial level.

Please see the In Focus section on page 38 for a detailed analysis of this indicator.

Figure 6





Induction of Labour by Place of Delivery for Health Service Delivery Areas, Table 6 Health Authorities and Province, 2001/2002, 2000/2001

2001/2002

				2001/					
		Y	es	No.			nown	To	
HA	HSDA	#	%	#	%	#	%	#	%
FHA	FE	623	24.8	1887	75.2	0	0.0	2510	100.0
	FN	1264	25.2	3758	74.8	0	0.0	5022	100.0
	FS	1383	25.3	4084	74.7	1	0.0	5468	100.0
Total		3270	25.2	9729	74.8	1	0.0	13000	100.0
IHA	EK	147	25.8	423	74.2	0	0.0	570	100.0
	KB	132	25.1	393	74.9	0	0.0	525	100.0
	OK	627	24.8	1900	75.2	1	0.0	2528	100.0
	TC	360	19.8	1456	80.2	0	0.0	1816	100.0
Total		1266	23.3	4172	76.7	1	0.0	5439	100.0
NHA	NE	206	24.0	651	76.0	0	0.0	857	100.0
	NI	283	18.6	1235	81.4	0	0.0	1518	100.0
	NW	186	19.8	749	79.8	4	0.4	939	100.0
Total	11000	675	20.4	2635	79.5	4	0.1	3314	100.0
VCHA	NSCG	370	20.2	1462	79.8	0	0.0	1832	100.0
	RICH	298	20.7	1143	79.3	0	0.0	1441	100.0
	VANC	373	21.5	1357	78.4	1	0.1	1731	100.0
Total	0) //	1041	20.8	3962	79.2	1	0.0	5004	100.0
VIHA	CVI	452	24.3	1410	75.7	1	0.1	1863	100.0
	NVI	99	22.8	335	77.2	0	0.0	434	100.0
T - 4 - 1	SVI	859	26.7	2357	73.3	0	0.0	3216	100.0
Total		1410	25.6 17.7	4102 5360	74.4	0	0.0	5513 6514	100.0
PHSA		1151			82.3	0	0.0	6511	100.0
HB		8	1.8	447 30407	98.2		0.0	455	100.0
Provinc	e	8821	22.5		77.5	8	0.0	39236	100.0
				2000/					
114	HODA	Ye		No			nown	To	
HA	HSDA	# 54.4	%	4 1014	70.0	#	<u>%</u>	2420	400.0
FHA	FE	514	21.2	1914	78.8	0	0.0	2428	100.0
	FN	1123	22.2	3926	77.7	1	0.0	5050	100.0
	FS	1269	23.6	4110	76.4	0	0.0	5379	100.0
Total		2906	22.6	9950	77.4	1	0.0	12857	100.0
IHA	EK	155	25.0	464	75.0	0	0.0	619	100.0
	KB	141	26.3					0.0	
	OK		20.5	396	73.7	0	0.0	537	100.0
	OK	661	25.5	396 1933	73.7 74.5				100.0 100.0
	TC	661 296				0	0.0	537	
Total			25.5	1933	74.5	0 0	0.0	537 2594	100.0
Total NHA		296	25.5 16.5	1933 1499	74.5 83.3	0 0 4	0.0 0.0 0.2	537 2594 1799	100.0 100.0
	TC	296 1253	25.5 16.5 22.6	1933 1499 4292	74.5 83.3 77.3	0 0 4 4	0.0 0.0 0.2 0.1	537 2594 1799 5549	100.0 100.0 100.0
	TC NE	296 1253 182 267	25.5 16.5 22.6 22.1	1933 1499 4292 641 1303	74.5 83.3 77.3 77.8 82.8	0 0 4 4	0.0 0.0 0.2 0.1 0.1 0.2	537 2594 1799 5549 824 1573	100.0 100.0 100.0 100.0 100.0
NHA	TC NE NI	296 1253 182 267 186	25.5 16.5 22.6 22.1 17.0 19.0	1933 1499 4292 641 1303 795	74.5 83.3 77.3 77.8 82.8 81.0	0 0 4 4 1 3 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0	537 2594 1799 5549 824 1573 981	100.0 100.0 100.0 100.0 100.0 100.0
NHA Total	NE NI NW	296 1253 182 267 186 635	25.5 16.5 22.6 22.1 17.0 19.0 18.8	1933 1499 4292 641 1303 795 2739	74.5 83.3 77.3 77.8 82.8 81.0 81.1	0 0 4 4 1 3 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0	537 2594 1799 5549 824 1573 981 3378	100.0 100.0 100.0 100.0 100.0 100.0
NHA	NE NI NW	296 1253 182 267 186 635 446	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1	1933 1499 4292 641 1303 795 2739 1573	74.5 83.3 77.3 77.8 82.8 81.0 81.1 77.9	0 0 4 4 1 3 0 4	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.1	537 2594 1799 5549 824 1573 981 3378 2019	100.0 100.0 100.0 100.0 100.0 100.0 100.0
NHA Total	NE NI NW NSCG RICH	296 1253 182 267 186 635 446 276	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7	1933 1499 4292 641 1303 795 2739 1573 1123	74.5 83.3 77.3 77.8 82.8 81.0 81.1 77.9 80.3	0 0 4 4 1 3 0 4 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.1	537 2594 1799 5549 824 1573 981 3378 2019 1399	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NHA Total VCHA	NE NI NW	296 1253 182 267 186 635 446 276 396	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8	1933 1499 4292 641 1303 795 2739 1573 1123 1269	74.5 83.3 77.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2	0 0 4 4 1 3 0 4 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.1 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total VCHA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0	0 0 4 4 1 3 0 4 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.1 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NHA Total VCHA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396 1118	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0	0 0 4 4 1 3 0 4 0 0 0 0	0.0 0.2 0.1 0.1 0.2 0.0 0.1 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total VCHA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396 1118 397 90	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8 21.6	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342 326	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0 77.2 78.4	0 0 4 4 1 3 0 4 0 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.1 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NHA Total VCHA Total VIHA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396 1118 397 90 812	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8 21.6 25.2	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342 326 2408	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0 77.2 78.4 74.8	0 0 4 4 1 3 0 4 0 0 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total VCHA Total VIHA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396 1118 397 90 812 1299	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8 21.6 25.2 24.2	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342 326 2408 4076	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0 77.2 78.4 74.8	0 0 4 4 1 3 0 4 0 0 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NHA Total VCHA Total VIHA Total PHSA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396 1118 397 90 812 1299 1139	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8 21.6 25.2 24.2 16.8	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342 326 2408 4076 5634	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0 77.2 78.4 74.8 75.8	0 0 4 4 1 3 0 4 0 0 0 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376 6773	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
NHA Total VCHA Total VIHA	NE NI NW NSCG RICH VANC	296 1253 182 267 186 635 446 276 396 1118 397 90 812 1299	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8 21.6 25.2 24.2	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342 326 2408 4076	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0 77.2 78.4 74.8	0 0 4 4 1 3 0 4 0 0 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total VCHA Total VIHA Total PHSA	NE NI NW NSCG RICH VANC CVI NVI SVI	296 1253 182 267 186 635 446 276 396 1118 397 90 812 1299 1139	25.5 16.5 22.6 22.1 17.0 19.0 18.8 22.1 19.7 23.8 22.0 22.8 21.6 25.2 24.2 16.8	1933 1499 4292 641 1303 795 2739 1573 1123 1269 3965 1342 326 2408 4076 5634	74.5 83.3 77.8 82.8 81.0 81.1 77.9 80.3 76.2 78.0 77.2 78.4 74.8 75.8	0 0 4 4 1 3 0 4 0 0 0 0 0 0	0.0 0.0 0.2 0.1 0.1 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376 6773	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

Health Authority (HA)					
FHA	Fraser HA				
IHA NHA	Interior HA Northern HA				
VCHA	Vancouver Coastal HA				
VIHA	Vancouver Island HA				
PHSA	Provincial Health Services				
	Authority				
HB	Home Births				

Health So	ervice Delivery Area (HSDA)
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

Electronic Fetal Monitoring Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 7)

The aim of intrapartum fetal surveillance is to improve fetal outcomes by identifying fetuses with intrauterine compromise at a point where the process is possibly still reversible by expedited delivery. Electronic Fetal Monitoring (EFM) is considered appropriate to assess fetal well-being when there are non-reassuring fetal heart tones on intermittent auscultation or in high risk pregnancies (SOGC, Guideline on Fetal Heart Monitoring in Labour, 2002).

Over the past two decades, research has challenged the clinical value of routine electronic fetal heart rate monitoring in low risk pregnancies (MacDonald et al, 1985). Meta-analysis of these data has led to two significant observations:

- EFM compared to Intermittent Auscultation (IA) has not been shown to improve fetal or neonatal outcomes as measured by a decrease in morbidity or mortality
- EFM is associated with an increase in caesarean section rates, operative vaginal delivery and the use of epidural anesthesia

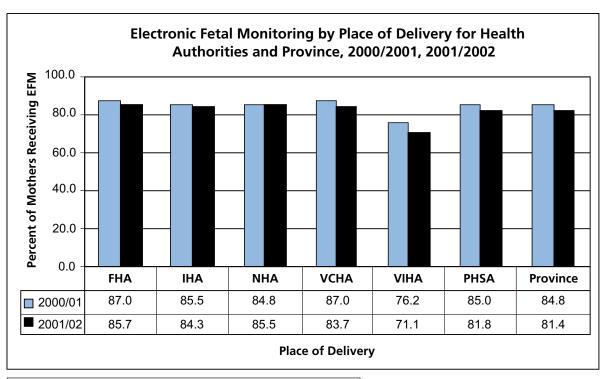
In 1995, the Society of Obstetricians and Gynecologists of Canada stated that the "preferred method for monitoring low-risk women in labour is intermittent fetal auscultation with a hand-held Doppler". Nevertheless, a significant number of women with no identifiable risk factors and normal fetal heart rate patterns continue to receive EFM in labour because of local practice styles (BCRCP, Report on the 1999 Perinatal Services Survey, 1999).

The analysis for electronic fetal monitoring is by place of delivery as this permits examination of practices of institutions within health authorities. Electronic fetal monitoring is defined as a mother who had internal and/or external fetal heart monitoring during first or second stages of labour. This includes mothers who may have had only a brief period (20 - 30 minutes) of monitoring on admission to hospital, in accordance with local protocols.

Provincially in 2001/2002, 81.4% of labouring mothers were monitored by EFM. This represents a slight decrease from 84.8% in 2000/2001. In 2001/2002, Vancouver Island HA was well below the provincial level at 71.1%. The other health authorities had rates very similar to each other and were only slightly above the provincial level. Interestingly, Northern Vancouver Island HSDA had the lowest rate at 55.4%. The Northeast HSDA had the highest rate at 92.7%. EFM rates for 2000/2001 were very similar.

Given the position taken by the Society of Obstetricians and Gynaecologists of Canada (SOGC), and the growing body of evidence in support of intermittent auscultation as the method of choice for fetal surveillance in low risk pregnancies, practitioners should continue to push for a reduction in the use of electronic fetal monitoring in this context.





Health A	uthority (HA) Legend		
FHA	Fraser	VIHA	Vancouver Island
IHA	Interior	PHSA	Provincial Health
NHA	Northern		Services Authority
VCHA	Vancouver Coastal		

Table 7 Electronic Fetal Monitoring by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

	Areas, I				/2002	•			
		Ye	es		No		oms oured	NA	Total Moms
НА	HSDA	#	%	#	%	#	%	#	#
FHA	FE	1848	81.5	420	18.5	2268	100.0	242	2510
	FN	4119	90.9	413	9.1	4532	100.0	490	5022
	FS	4034	82.9	832	17.1	4866	100.0	602	5468
Total		10001	85.7	1665	14.3	11666	100.0	1334	13000
IHA	EK	411	79.0	109	21.0	520	100.0	50	570
	KB	325	69.7	141	30.3	466	100.0	59	525
	OK	2075	91.4	194	8.6	2269	100.0	259	2528
	TC	1276	80.1	317	19.9	1593	100.0	223	1816
Total		4087	84.3	761	15.7	4848	100.0	591	5439
NHA	NE	734	92.7	58	7.3	792	100.0	65	857
	NI	1125	82.9	232	17.1	1357	100.0	161	1518
	NW	710	82.8	147	17.2	857	100.0	82	939
Total		2569	85.5	437	14.5	3006	100.0	308	3314
VCHA	NSCG	1348	84.7	243	15.3	1591	100.0	241	1832
	RICH	1150	90.3	123	9.7	1273	100.0	168	1441
	VANC	1195	77.1	355	22.9	1550	100.0	181	1731
Total		3693	83.7	721	16.3	4414	100.0	590	5004
VIHA	CVI	1317	79.1	348	20.9	1665	100.0	198	1863
	NVI	215	55.4	173	44.6	388	100.0	46	434
	SVI	1940	68.6	887	31.4	2827	100.0	389	3216
Total		3472	71.1	1408	28.9	4880	100.0	633	5513
PHSA		4650	81.8	1038	18.2	5688	100.0	823	6511
HB		l o	0.0	455	100.0	455	100.0	0	455
- 10									
Provinc	e	28472	81.4	6485	18.6	34957	100.0	4279	39236
	e				18.6				
	e	28472		6485 2000	18.6	34957 M			
	HSDA	28472	81.4	6485 2000	18.6 /2001	34957 M	100.0 oms	4279	39236 Total
Provinc	HSDA FE	28472 Ye	81.4 es	6485 2000	18.6 / 2001 No	34957 M Lab	100.0 oms oured	4279 NA	39236 Total Moms
Provinc	HSDA	28472 Ye	81.4 es %	6485 2000 #	18.6 /2001 No	34957 M Lab	oms oured	4279 NA #	39236 Total Moms #
Provinc	HSDA FE	28472 Yo # 1817	81.4 es % 82.9	2000 # 375	18.6 /2001 No % 17.1	34957 Mi Lab # 2192	100.0 oms oured % 100.0	NA # 236	39236 Total Moms # 2428
Provinc	HSDA FE FN	28472 Ye # 1817 4160	81.4 es % 82.9 88.9	# 375 518	18.6 /2001 No % 17.1 11.1	34957 Mh Lab # 2192 4678	00.0 oms oured % 100.0 100.0	NA # 236 372	39236 Total Moms # 2428 5050 5379
HA FHA	HSDA FE FN	28472 * # 1817 4160 4252	81.4 98 96 82.9 88.9 87.0	# 375 518 638	18.6 /2001 No % 17.1 11.1 13.0	34957 Mh Lab # 2192 4678 4890	00.0 0ms oured % 100.0 100.0 100.0	NA # 236 372 489	39236 Total Moms # 2428 5050 5379
HA FHA	HSDA FE FN FS	# 1817 4160 4252 10229	81.4 es % 82.9 88.9 87.0 87.0	# 375 518 638 1531	18.6 /2001 No % 17.1 11.1 13.0 13.0	34957 Mi Lab # 2192 4678 4890 11760	00.0 oms oured % 100.0 100.0 100.0	NA # 236 372 489 1097	Total Moms # 2428 5050 5379 12857
HA FHA	HSDA FE FN FS	# 1817 4160 4252 10229 392	81.4 98 % 82.9 88.9 87.0 87.0 68.7	# 375 518 638 1531 179 98	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3	# 2192 4678 4890 11760 571	00.0 oms oured % 100.0 100.0 100.0 100.0 100.0	NA # 236 372 489 1097	Total Moms # 2428 5050 5379 12857 619
HA FHA	HSDA FE FN FS	# 1817 4160 4252 10229 392 392	81.4 98 % 82.9 88.9 87.0 87.0 68.7 80.0	# 375 518 638 1531 179	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0	34957 M. Lab # 2192 4678 4890 11760 571 490	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0	NA # 236 372 489 1097 48 47	Total Moms # 2428 5050 5379 12857 619 537
HA FHA	HSDA FE FN FS EK KB OK	# 1817 4160 4252 10229 392 392 2201	81.4 % 82.9 88.9 87.0 87.0 68.7 80.0 93.8 81.0	# 375 518 638 1531 179 98 145	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0	34957 Mi Lab # 2192 4678 4890 11760 571 490 2346	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 236 372 489 1097 48 47 248	Total Moms # 2428 5050 5379 12857 619 537 2594 1799
HA FHA Total	HSDA FE FN FS EK KB OK	# 1817 4160 4252 10229 392 2201 1317	81.4 988 % 82.9 88.9 87.0 87.0 68.7 80.0 93.8	# 375 518 638 1531 179 98 145 309	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2	34957 Mi Lab # 2192 4678 4890 11760 571 490 2346 1626	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0	NA # 236 372 489 1097 48 47 248 173	Total Moms # 2428 5050 5379 12857 619 537 2594
HA FHA Total IHA	HSDA FE FN FS EK KB OK TC	# 1817 4160 4252 10229 392 2201 1317 4302 671	81.4 % 82.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2	# 375 518 638 1531 179 98 145 309 731	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8	# 2192 4678 4890 11760 571 490 2346 1626 5033 761	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA #* 236 372 489 1097 48 47 248 173 516 63	39236 Total Moms # 2428 5050 5379 12857 619 537 2594 1799 5549 824
HA FHA Total IHA	HSDA FE FN FS EK KB OK TC	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190	81.4 988.9 88.9 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3	# 375 518 638 1531 179 98 145 309 731 90 239	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7	34957 M. Lab # 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA #* 236 372 489 1097 48 47 248 173 516 63 144	39236 Total Moms # 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573
HA FHA Total IHA Total NHA	HSDA FE FN FS EK KB OK TC NE NI	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190 764	81.4 98 82.9 88.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5	# 375 518 638 1531 179 98 145 309 731 90 239 140	18.6 /2001 No % 17.1 11.1 13.0 13.0 6.2 19.0 14.5 11.8 16.7 15.5	34957 M. Lab # 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA #* 236 372 489 1097 48 47 248 173 516 63 144 77	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 824 1573 981
HA FHA Total IHA Total NHA	HSDA FE FN FS EK KB OK TC NE NI NW	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190 764 2625	81.4 98.9 82.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5	# 375 518 638 1531 179 98 145 309 731 90 239 140 469	18.6 /2001 No % 17.1 11.1 13.0 13.0 6.2 19.0 14.5 11.8 16.7 15.5	34957 M. Lab # 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA #* 236 372 489 1097 48 47 248 173 516 63 144 77 284	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 824 1573 981 3378
HA FHA Total IHA Total NHA	HSDA FE FN FS EK KB OK TC NE NI NW	# 1817 4160 4252 10229 392 2201 1317 4302 671 1190 764 2625 1535	81.4 82.9 88.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5 84.8	# 375 518 638 1531 179 98 145 309 731 90 239 140 469 253	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7 15.5 15.2 14.1	34957 Mi Lab # 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094 1788	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	4279 NA # 236 372 489 1097 48 47 248 173 516 63 144 77 284 231	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019
HA FHA Total IHA Total NHA	HSDA FE FN FS EK KB OK TC NE NI NW	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190 764 2625 1535 1094	81.4 82.9 88.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5 84.8 85.9 86.4	# 375 518 638 1531 179 98 145 309 731 90 239 140 469 253 172	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7 15.5 15.2 14.1 13.6	34957 Mi Lab # 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094 1788 1266	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA #* 236 372 489 1097 48 47 248 173 516 63 144 77 284 231 133	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 824 1573 981 3378 2019 1399
HA FHA Total IHA Total NHA Total VCHA	HSDA FE FN FS EK KB OK TC NE NI NW	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190 764 2625 1535 1094 1357	81.4 98 82.9 88.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5 84.8 85.9 86.4 88.8	# 375 518 638 1531 179 98 145 309 731 90 239 140 469 253 172 171	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7 15.5 15.2 14.1 13.6 11.2	34957 Mi Lab # 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094 1788 1266 1528	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA #* 236 372 489 1097 48 47 248 173 516 63 144 77 284 231 133 137	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665
HA FHA Total IHA Total VCHA	HSDA FE FN FS EK KB OK TC NE NI NW	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190 764 2625 1535 1094 1357 3986	81.4 98 82.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5 84.8 85.9 86.4 88.8	# 375 518 638 1531 179 98 145 309 731 90 239 140 469 253 172 171 596	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7 15.5 15.2 14.1 13.6 11.2 13.0	# 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094 1788 1266 1528 4582	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA** **1** 236* 372* 489* 1097* 48* 47* 248* 173* 516* 63* 144* 77* 284* 231* 133* 137* 501*	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 824 1573 981 3378 2019 1399 1665 5083
HA FHA Total IHA Total NHA Total VCHA	HSDA FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 1817 4160 4252 10229 392 2201 1317 4302 671 1190 764 2625 1535 1094 1357 3986 1285	81.4 98 82.9 87.0 87.0 87.0 93.8 81.0 85.5 88.2 83.3 84.5 84.8 85.9 86.4 88.8 87.0	# 375 518 638 1531 179 98 145 309 731 90 239 140 469 253 172 171 596 305	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7 15.5 15.2 14.1 13.6 11.2 13.0 19.2	# 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094 1788 1266 1528 4582 1590	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA** **1** 236 372 489 1097 48 47 248 173 516 63 144 77 284 231 133 137 501 149	39236 Total Moms # 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083
HA FHA Total IHA Total VCHA	HSDA FE FN FS EK KB OK TC NE NI NW	# 1817 4160 4252 10229 392 392 2201 1317 4302 671 1190 764 2625 1535 1094 1357 3986	81.4 98 82.9 87.0 87.0 68.7 80.0 93.8 81.0 85.5 88.2 83.3 84.5 84.8 85.9 86.4 88.8	# 375 518 638 1531 179 98 145 309 731 90 239 140 469 253 172 171 596	18.6 /2001 No % 17.1 11.1 13.0 13.0 31.3 20.0 6.2 19.0 14.5 11.8 16.7 15.5 15.2 14.1 13.6 11.2 13.0	# 2192 4678 4890 11760 571 490 2346 1626 5033 761 1429 904 3094 1788 1266 1528 4582	100.0 oms oured % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	**NA** **1** 236* 372* 489* 1097* 48* 47* 248* 173* 516* 63* 144* 77* 284* 231* 133* 137* 501*	Total Moms # 2428 5050 5379 12857 619 537 2594 1799 824 1573 981 3378 2019 1399 1665 5083

Total

PHSA

Province

ΗВ

3696

5182

30020

76.2

85.0

0.0

84.8

1156

915

362

5398

23.8

15.0

0.0

15.2

4852

6097

35418

0

100.0

100.0

100.0

0.0

524

676

3598

0

5376

6773

362

39378

Health Authority (HA)					
FHA	Fraser HA				
IHA	Interior HA				
NHA	Northern HA				
VCHA	Vancouver Coastal HA				
VIHA	Vancouver Island HA				
PHSA	Provincial Health Services				
	Authority				
HB	Home Births				

Health Service Delivery Area (HSDA)				
FE	East			
FN	Fraser North			
FS	Fraser South			
EK	East Kootenay			
KB	Kootenay Boundary			
OK	Okanagan			
TC	Thompson Cariboo Shuswap			
NE	Northeast			
NI	Northern Interior			
NW	Northwest			
NSCG	Northshore/Coast Garibaldi			
RICH	Richmond			
VANC	Vancouver			
CVI	Central Vancouver Island			
NVI	Northern Vancouver Island			
SVI	Southern Vancouver Island			

NA – Mothers who did not labour and had elective C/Sections

Episiotomy Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 8)

Episiotomy is one of the most common surgical procedures in North America, yet there is minimal evidence to support its liberal or routine use. Higher rates of episiotomy are consistently observed in first vaginal births and instrumental deliveries (Bobak et al, 1997). Perineal integrity is compromised, leading to short-term morbidity such as pain and haemorrhage. Potential longer term morbidity includes protracted pain and difficulties in sexual function and urinary stress incontinence (Enkin et al, 1996). There is still debate as to what is an acceptable episiotomy rate in uncomplicated vaginal deliveries (ibid).

Analysis for episiotomy is by place of delivery. The practices of an institution have more impact on determining whether to do an episiotomy than the place of residence of the mother.

In 2001/2002, 18.5% of women who had vaginal deliveries had an episiotomy. The rate in 2000/2001 was similar. This rate represents a drop from the 22% reported in 1998 and is among the lowest rates in Canada, behind the Yukon and the North West Territories (Canadian Perinatal Health Report, 2000).

The Vancouver Island, Interior and Northern HAs had rates below the provincial level. North Vancouver Island had a comparatively low episiotomy rate for the health services delivery areas at 6.5%. The Home Birth episiotomy rate was lower still at 0.2% in 2001/ 2002 and 0.8% in 2000/2001.

Figure 8

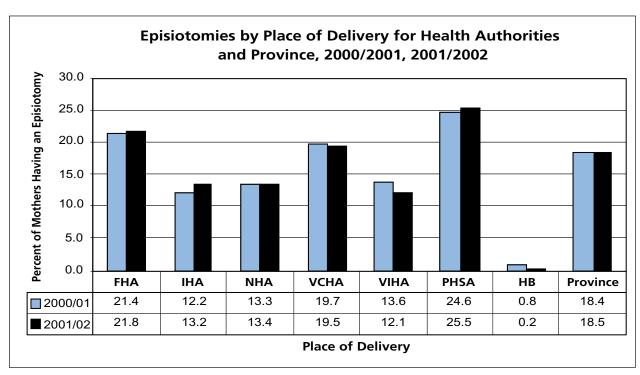




Table 8 **Episiotomies by Place of Delivery for Health Service Delivery Areas,** Health Authorities and Province, 2001/2002, 2000/2001

				2001/200)2			
		Y	es		0	To	tal	NA
НА	HSDA	#	%	#	%	#	%	#
FHA	FE	403	21.0	1516	79.0	1919	100.0	591
	FN	664	17.8	3071	82.2	3735	100.0	1287
	FS	1038	25.8	2978	74.2	4016	100.0	1452
Total		2105	21.8	7565	78.2	9670	100.0	3330
IHA	EK	58	12.4	409	87.6	467	100.0	103
	KB	60	14.7	348	85.3	408	100.0	117
	OK	273	14.3	1639	85.7	1912	100.0	616
	TC	147	11.5	1131	88.5	1278	100.0	538
Total		538	13.2	3527	86.8	4065	100.0	1374
NHA	NE	126	18.6	551	81.4	677	100.0	180
	NI	124	11.1	990	88.9	1114	100.0	404
	NW	82	11.8	613	88.2	695	100.0	244
Total		332	13.4	2154	86.6	2486	100.0	828
VCHA	NSCG	262	19.4	1088	80.6	1350	100.0	482
	RICH	238	23.2	786	76.8	1024	100.0	417
	VANC	204	16.6	1026	83.4	1230	100.0	501
Total		704	19.5	2900	80.5	3604	100.0	1400
VIHA	CVI	253	18.3	1132	81.7	1385	100.0	478
	NVI	233	6.5	303	93.5	324	100.0	110
	SVI	211	9.2	2078	90.8	2289	100.0	927
Total	011	485	12.1	3513	87.9	3998	100.0	1515
PHSA		1187	25.5	3475	74.5	4662	100.0	1849
HB		1	0.2	454	99.8	455	100.0	0
	e.	5352						
Province 5352 18.5 23588 81.5 28940 100.0 10296								
				2000/200)1			
		Y	es	2000/200 N		To	otal	NA
НА	HSDA	Y	es %	2000/200 N #		To	otal %	NA #
HA FHA	HSDA FE			N	0			
		#	%	#	%	#	%	#
	FE	# 317	% 16.8	# 1568	% 83.2	# 1885	% 100.0	# 543
	FE FN	# 317 787	% 16.8 20.1	# 1568 3134	% 83.2 79.9	# 1885 3921	% 100.0 100.0	# 543 1129
FHA	FE FN	# 317 787 1034	% 16.8 20.1 24.8 21.4	# 1568 3134 3128	83.2 79.9 75.2	# 1885 3921 4162	% 100.0 100.0 100.0	# 543 1129 1217
FHA Total	FE FN FS	# 317 787 1034 2138	% 16.8 20.1 24.8	1568 3134 3128 7830	83.2 79.9 75.2 78.6	# 1885 3921 4162 9968	% 100.0 100.0 100.0 100.0	# 543 1129 1217 2889
FHA Total	FE FN FS EK KB	# 317 787 1034 2138 65	% 16.8 20.1 24.8 21.4 12.9	# 1568 3134 3128 7830 440	83.2 79.9 75.2 78.6 87.1	# 1885 3921 4162 9968 505	% 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114
FHA Total	FE FN FS	# 317 787 1034 2138 65 52	% 16.8 20.1 24.8 21.4 12.9 12.1	# 1568 3134 3128 7830 440 379	83.2 79.9 75.2 78.6 87.1 87.9	# 1885 3921 4162 9968 505 431	% 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106
Total IHA	FE FN FS EK KB OK	# 317 787 1034 2138 65 52 231	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6	# 1568 3134 3128 7830 440 379 1763 1147	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2	# 1885 3921 4162 9968 505 431 1994 1315	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484
FHA Total	FE FN FS EK KB OK	# 317 787 1034 2138 65 52 231 168	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8	# 1568 3134 3128 7830 440 379 1763	83.2 79.9 75.2 78.6 87.1 87.9 88.4	# 1885 3921 4162 9968 505 431 1994	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600
Total Total	FE FN FS EK KB OK TC	# 317 787 1034 2138 65 52 231 168 516	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8	# 1568 3134 3128 7830 440 379 1763 1147 3729	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2	# 1885 3921 4162 9968 505 431 1994 1315 4245	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304
Total Total	FE FN FS EK KB OK TC	# 317 787 1034 2138 65 52 231 168 516	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.6	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.4	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340
Total IHA Total NHA	FE FN FS EK KB OK TC	# 317 787 1034 2138 65 52 231 168 516 120 143	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2	# 1568 3134 3128 7830 440 379 1763 1147 3729 524	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.4 88.4	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304
Total Total	FE FN FS EK KB OK TC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.4 88.5 86.7	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746
Total IHA Total NHA	FE FN FS EK KB OK TC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.4 88.5 86.7	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056 1112	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1 80.3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749 226 36	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7	# 1568 3134 3128 7830 4440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056 1112 291	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1 80.3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 476 356 446 1278 401 89
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056 1112	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1 80.3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749 226 36 292 554	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7 16.9 11.0 12.1 13.6	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056 1112 291 2122 3525	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1 80.3 83.1 89.0 87.9	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079	% 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749 226 36 292 554 1230	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7 16.9 11.0 12.1 13.6 24.6	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056 1112 291 2122 3525 3765	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1 80.3 83.1 89.0 87.9	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079 4995	% 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807 1297 1778
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 317 787 1034 2138 65 52 231 168 516 120 143 87 350 281 237 231 749 226 36 292 554	% 16.8 20.1 24.8 21.4 12.9 12.1 11.6 12.8 12.2 18.6 11.5 13.3 18.2 22.7 18.9 19.7 16.9 11.0 12.1 13.6	# 1568 3134 3128 7830 440 379 1763 1147 3729 524 1090 668 2282 1262 806 988 3056 1112 291 2122 3525	83.2 79.9 75.2 78.6 87.1 87.9 88.4 87.2 87.8 81.4 88.5 86.7 81.8 77.3 81.1 80.3 83.1 89.0 87.9	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079	% 100.0	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807

Health Authority (HA)				
FHA	Fraser HA			
IHA	Interior HA			
NHA	Northern HA			
VCHA	Vancouver Coastal HA			
VIHA	Vancouver Island HA			
PHSA	Provincial Health Services			
	Authority			
HB	Home Births			

Health Service Delivery Area (HSDA)					
To Lo	Eurana Eart				
FE	Fraser East				
FN	Fraser North				
FS	Fraser South				
EK	East Kootenay				
KB	Kootenay Boundary				
OK	Okanagan				
TC	Thompson Cariboo Shuswap				
NE	Northeast				
NI	Northern Interior				
NW	Northwest				
NSCG	Northshore/Coast Garibaldi				
RICH	Richmond				
VANC	Vancouver				
CVI	Central Vancouver Island				
NVI	Northern Vancouver Island				
SVI	Southern Vancouver Island				

Moms who were delivered by NA -C/Section

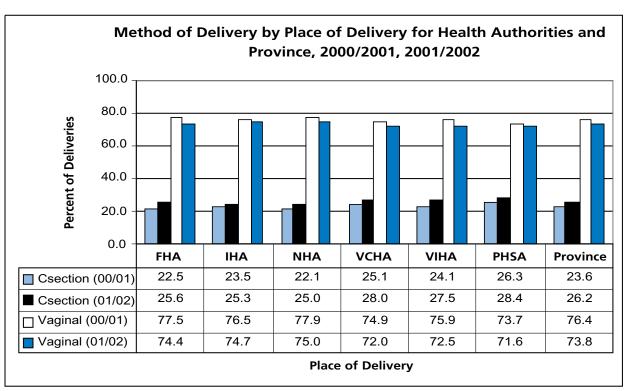
Method of Delivery Rate (Vaginal vs. C/Section) by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 9)

The proportion of mothers delivered by caesarean section in Canada in 2000/2001 was approximately 21% (Canadian Institute for Health Information, 2003). The rate is a concern because of the potentially increased surgical risk to the mother and the additional costs to the system. The main strategies to lower the caesarean section rate have been the establishment of clinical practice guidelines and efforts to encourage women who have had a previous caesarean section to attempt a vaginal delivery (VBAC).

Nulliparous women are more likely to require a caesarean section than parity ≥ 1 women; the tendency to delay first pregnancies is a possible explanation for the increase in primary caesarean section rates among mothers 35 years and older. The rate of repeat caesarean section had declined somewhat over the last decade, possibly due to an emphasis on VBAC as a primary strategy to reduce the overall caesarean section rates (SOGC, Guideline on VBAC, 1999).

The caesarean section rate for singleton pregnancies increased to 26.2% in 2001/2002, from 23.6% in 2000/2001. For both years, Vancouver Coastal HA had the highest rate. The other health authorities had rates very similar to the provincial level. Among the health service delivery areas, there were four with similar high rates; Richmond at 28.9%, Vancouver at 28.9%, South Vancouver Island at 28.8% and Thompson Cariboo Shuswap at 29.6%.





Health Authority (HA) Legend				
FHA	Fraser			
IHA	Interior			
NHA	Northern			
VCHA	Vancouver Coastal			
VIHA	Vancouver Island			
PHSA	Provincial Health			
	Services Authority			

Table 9 Method of Delivery by Place of Delivery for Health Service **Delivery Areas, Health Authorities and Province,** 2001/2002, 2000/2001

2001/2002

		C/Se	ction	Total			
НА	HSDA	#	%	#	ginal %	#	%
FHA	FE	591	23.5	1919	76.5	2510	100.0
	FN	1287	25.6	3735	74.4	5022	100.0
	FS	1452	26.6	4016	73.4	5468	100.0
Total		3330	25.6	9670	74.4	13000	100.0
IHA	EK	103	18.1	467	81.9	570	100.0
	KB	117	22.3	408	77.7	525	100.0
	OK	616	24.4	1912	75.6	2528	100.0
	TC	538	29.6	1278	70.4	1816	100.0
Total		1374	25.3	4065	74.7	5439	100.0
NHA	NE	180	21.0	677	79.0	857	100.0
	NI	404	26.6	1114	73.4	1518	100.0
	NW	244	26.0	695	74.0	939	100.0
Total		828	25.0	2486	75.0	3314	100.0
VCHA	NSCG	482	26.3	1350	73.7	1832	100.0
	RICH	417	28.9	1024	71.1	1441	100.0
	VANC	501	28.9	1230	71.1	1731	100.0
Total	VAINO		28.0				
Total VIHA	CVI	1400		3604	72.0	5004	100.0
VINA		478	25.7	1385	74.3	1863	100.0
	NVI SVI	110	25.3	324	74.7	434	100.0
	371	927	28.8	2289	71.2	3216	100.0
Total		1515	27.5	3998	72.5	5513	100.0
PHSA		1849	28.4	4662	71.6	6511	100.0
НВ		0	0.0	455	100.0	455	100.0
Provinc	e	10296	26.2	28940	73.8	39236	100.0
			2000	/2001			
	1105.4		ction		ginal	To	
НА	HSDA	C/Se	ction %	Vag #	qinal %	<u>To</u> #	tal %
HA FHA	FE			# 1885		# 2428	% 100.0
	FE FN	# 543 1129	% 22.4 22.4	# 1885 3921	% 77.6 77.6	# 2428 5050	% 100.0 100.0
	FE	# 543	% 22.4	# 1885	% 77.6	# 2428	% 100.0
FHA Total	FE FN FS	# 543 1129	% 22.4 22.4	# 1885 3921	% 77.6 77.6	# 2428 5050	% 100.0 100.0
FHA	FE FN	# 543 1129 1217	% 22.4 22.4 22.6	# 1885 3921 4162	% 77.6 77.6 77.4	# 2428 5050 5379	% 100.0 100.0 100.0
FHA Total	FE FN FS	# 543 1129 1217 2889	% 22.4 22.4 22.6 22.5	# 1885 3921 4162 9968	% 77.6 77.6 77.4 77.5	# 2428 5050 5379 12857	% 100.0 100.0 100.0 100.0
FHA Total	FE FN FS	# 543 1129 1217 2889 114	% 22.4 22.4 22.6 22.5 18.4	# 1885 3921 4162 9968 505	% 77.6 77.6 77.4 77.5 81.6	# 2428 5050 5379 12857 619	% 100.0 100.0 100.0 100.0
Total IHA	FE FN FS EK KB	# 543 1129 1217 2889 114 106	% 22.4 22.4 22.6 22.5 18.4 19.7	# 1885 3921 4162 9968 505 431	% 77.6 77.6 77.4 77.5 81.6 80.3	# 2428 5050 5379 12857 619 537	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0
FHA Total	FE FN FS EK KB OK	# 543 1129 1217 2889 114 106 600	% 22.4 22.6 22.5 18.4 19.7 23.1	# 1885 3921 4162 9968 505 431 1994	% 77.6 77.6 77.4 77.5 81.6 80.3 76.9	# 2428 5050 5379 12857 619 537 2594	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA	FE FN FS EK KB OK	# 543 1129 1217 2889 114 106 600 484	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9	# 1885 3921 4162 9968 505 431 1994 1315	% 77.6 77.6 77.4 77.5 81.6 80.3 76.9 73.1	# 2428 5050 5379 12857 619 537 2594 1799	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA	FE FN FS EK KB OK TC	# 543 1129 1217 2889 114 106 600 484 1304	% 22.4 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5	# 1885 3921 4162 9968 505 431 1994 1315 4245	% 77.6 77.6 77.4 77.5 81.6 80.3 76.9 73.1	#2428 5050 5379 12857 619 537 2594 1799 5549	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA	FE FN FS EK KB OK TC	# 543 1129 1217 2889 114 106 600 484 1304	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8	# 1885 3921 4162 9968 505 431 1994 1315 4245 644	% 77.6 77.6 77.4 77.5 81.6 80.3 76.9 73.1 76.5	# 2428 5050 5379 12857 619 537 2594 1799 5549	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA	FE FN FS EK KB OK TC	# 543 1129 1217 2889 114 106 600 484 1304 180 340	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233	% 77.6 77.6 77.4 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226	% 22.4 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746	% 22.4 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543	% 77.6 77.4 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 21.8 21.6 23.0 22.1 23.6 25.4	# 1885 3921 4162 9968 505 431 1994 1315 644 1233 755 2632 1543 1043	% 77.6 77.4 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219	% 77.6 77.4 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1 21.4	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9 78.6	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1 21.4 25.1	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9 76.9 78.6 74.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807 1297	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1 21.4 25.1 24.1	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079	% 77.6 77.4 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9 76.9 76.9 78.6 74.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376	% 100.0
Total IHA Total NHA Total VCHA Total VIHA Total PHSA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807 1297	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1 23.1 21.4 25.1 24.1 26.3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079 4995	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9 76.9 76.9 77.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376 6773	% 100.0
Total IHA Total NHA Total VCHA Total VIHA Total HB	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807 1297 1778	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1 21.4 25.1 24.1 26.3 0.0	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079 4995	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9 76.9 75.9 75.9 73.7	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376 6773 362	% 100.0
Total IHA Total NHA Total VCHA Total VIHA Total PHSA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278 401 89 807 1297	% 22.4 22.6 22.5 18.4 19.7 23.1 26.9 23.5 21.8 21.6 23.0 22.1 23.6 25.4 26.8 25.1 23.1 21.4 25.1 24.1 26.3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079 4995	% 77.6 77.6 77.5 81.6 80.3 76.9 73.1 76.5 78.2 78.4 77.0 77.9 76.4 74.6 73.2 74.9 76.9 76.9 77.9	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376 6773	% 100.0

Health Authority (HA)				
FHA	Fraser HA			
IHA	Interior HA			
NHA	Northern HA			
VCHA	Vancouver Coastal HA			
VIHA	Vancouver Island HA			
PHSA	Provincial Health Services			
	Authority			
НВ	Home Births			
Health Se	rvice Delivery Area (HSDA)			

iicaitii 5	ci vice benvery mea (115bm)
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

Postpartum Length of Stay (LOS) Rate by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 10 & 11)

Current scientific knowledge does not provide conclusive evidence about the optimal post-delivery length of stay for either mothers or newborns (BCRCP, Report on the Findings of a Consensus Symposium on the Provision of Postpartum Services, 2002).

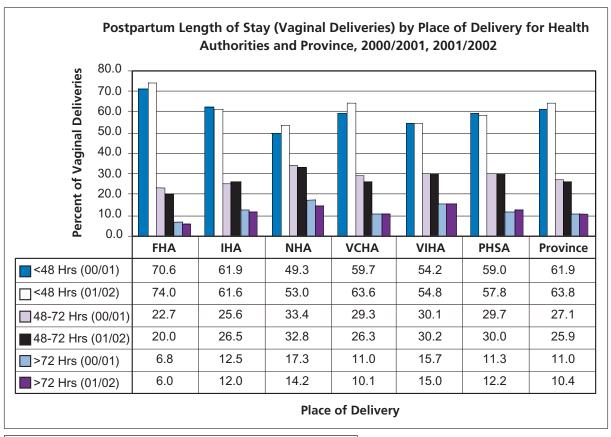
In 1996, the Canadian Paediatric Society defined early maternal discharge as within two days of vaginal birth and four days of caesarean birth. In reviewing national and provincial data on postpartum length of stay, it is apparent this had become the norm for most parturients. However, the total length of time that a mother should stay in hospital remains controversial (BCRCP, Report on the Findings of a Consensus Symposium on the Provision of Postpartum Services, 2002). Early postpartum discharge may expose the mother and newborn to increased risk of adverse outcomes, although significant, major morbidity has yet to be demonstrated in clinical studies. The literature is inconclusive; therefore, there is a need to focus on "appropriate" versus "early" discharge (ibid).

Postpartum Length of Stay (Vaginal Deliveries) 2001/2002, 2000/2001 (Refer to Data Table 10)

Analysis is by place of delivery as the practices of institutions have a greater impact on the postpartum length of stay for women than where the woman resides, even though in some circumstances the maternal residence may be a factor in determining length of stay.

In 2001/2002, the provincial rate for length of stay of less than 48 hours (Vaginal Deliveries) was 63.8%, in 2000/2001 it was 61.9%. The Fraser HA was the only health authority with a rate higher than the provincial level. The provincial rate for LOS between 48 and 72 hours was 25.9% of the total vaginal deliveries. For LOS greater than 72 hours, the provincial rate was 10.4%. The only health authority below this was the Fraser HA at 6.0%. In the Fraser HA, 74.0% of the patients were discharged within 48 hours, representing a 10% increase over the provincial rate. The pattern and rates were very similar in 2000/2001.

Figure 10



Health A	uthority (HA) Legend		
FHA	Fraser	VIHA	Vancouver Island
IHA	Interior	PHSA	Provincial Health
NHA	Northern		Services Authority
VCHA	Vancouver Coastal		

Table 10

Postpartum Length of Stay (Vaginal Deliveries) by Place of Delivery for Health Service
Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

2001/2002

						2001/2						
		401			-72	> 70 H			tal	UNKN/ NA	NA/CS	Tatal
шл	HSDA	<48 F	10urs %	#	urs %	>72 H	ours %	#	icable %	#	#	Total #
HA FHA	FE	-										
1114	FN	1340 2493	71.5 67.1	418 914	22.3 24.6	117 309	6.2 8.3	1875 3716	100.0 100.0	44 19	591 1287	2510 5022
Tatal	FS	3263 7096	81.6 74.0	584 1916	14.6 20.0	150	3.8 6.0	3997	100.0 100.0	19 82	1452 3330	5468
Total IHA	EK					576		9588				13000
ΙΠΑ	KB	269	59.9	124	27.6	56	12.5	449	100.0	18	103	570
		161	41.1	144	36.7	87	22.2	392	100.0	16	117	525
	OK	1202	63.2	482	25.3	218	11.5	1902	100.0	10	616	2528
	TC	831	66.2	308	24.5	117	9.3	1256	100.0	22	538	1816
Total	NE	2463	61.6	1058	26.5	478	12.0	3999	100.0	66	1374	5439
NHA	NE	325	48.4	216	32.2	130	19.4	671	100.0	6	180	857
	NI NIA/	579	53.5	370	34.2	133	12.3	1082	100.0	32	404	1518
	NW	382	56.7	211	31.3	81	12.0	674	100.0	21	244	939
Total	NOOO	1286	53.0	797	32.8	344	14.2	2427	100.0	59	828	3314
	NSCG	803	60.1	343	25.7	191	14.3	1337	100.0	13	482	1832
	RICH	745	73.0	234	22.9	42	4.1	1021	100.0	3	417	1441
	VANC	730	59.6	365	29.8	130	10.6	1225	100.0	5	501	1731
Total VIHA	CVI	2278	63.6	942	26.3	363	10.1	3583	100.0	21	1400	5004
VINA		773	57.3	381	28.2	195	14.5	1349	100.0	36	478	1863
	NVI	235	73.4	69	21.6	16	5.0	320	100.0	4	110	434
	SVI	1148	50.7	738	32.6	380	16.8	2266	100.0	23	927	3216
Total PHSA		2156	54.8	1188	30.2	591	15.0	3935	100.0	63	1515	5513
		2681	57.8	1390	30.0	566	12.2	4637	100.0	25	1849	6511
HB Provin		17960	0.0 63.8	7291	0.0 25.9	0 2918	0.0 10.4	0 28169	0.0 100.0	455 771	10296	455 39236
FIOVIII	ce	17900	03.0	1291	25.5			20109	100.0	// 1	10290	39230
						2000/	2001		_			
				40				_				
		<48 H	ours		-72 urs	>72 H	ours	To Appli		UNKN/ NA	NA/CS	Total
HA	HSDA	<48 H		Но	urs	>72 H		Appli	cable	NA	NA/CS	Total #
HA FHA	HSDA FE	#	%	Ho #	urs %	#	%	Appli #	cable %	NA #	#	#
		# 1269	% 68.5	# 486	urs % 26.2	# 97	% 5.2	# 1852	% 100.0	NA #	# 543	# 2428
	FE FN	# 1269 2447	% 68.5 62.8	# 486 1078	26.2 27.7	# 97 373	% 5.2 9.6	# 1852 3898	% 100.0 100.0	# 33 23	# 543 1129	# 2428 5050
FHA	FE	# 1269 2447 3267	% 68.5 62.8 78.8	# 486 1078 680	26.2 27.7 16.4	97 373 198	% 5.2 9.6 4.8	# 1852 3898 4145	% 100.0 100.0 100.0	# 33 23 17	# 543 1129 1217	# 2428 5050 5379
FHA Total	FE FN FS	# 1269 2447 3267 6983	% 68.5 62.8 78.8 70.6	# 486 1078 680 2244	% 26.2 27.7 16.4 22.7	# 97 373 198 668	% 5.2 9.6 4.8 6.8	# 1852 3898 4145 9895	100.0 100.0 100.0 100.0	# 33 23 17 73	# 543 1129 1217 2889	# 2428 5050 5379 12857
FHA	FE FN FS	# 1269 2447 3267 6983 281	% 68.5 62.8 78.8 70.6 58.9	# 486 1078 680 2244 129	26.2 27.7 16.4 22.7 27.0	# 97 373 198 668 67	% 5.2 9.6 4.8 6.8 14.0	# 1852 3898 4145 9895 477	100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28	# 543 1129 1217 2889 114	# 2428 5050 5379 12857 619
FHA Total	FE FN FS EK KB	# 1269 2447 3267 6983 281 193	% 68.5 62.8 78.8 70.6 58.9 46.2	# 486 1078 680 2244 129 136	26.2 27.7 16.4 22.7 27.0 32.5	# 97 373 198 668 67 89	% 5.2 9.6 4.8 6.8 14.0 21.3	# 1852 3898 4145 9895 477 418	100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13	# 543 1129 1217 2889 114 106	# 2428 5050 5379 12857 619 537
FHA Total	FE FN FS EK KB OK	# 1269 2447 3267 6983 281 193 1224	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1	# 486 1078 680 2244 129 136 510	26.2 27.7 16.4 22.7 27.0 32.5 25.9	# 97 373 198 668 67 89 238	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1	# 1852 3898 4145 9895 477 418 1972	100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22	# 543 1129 1217 2889 114 106 600	# 2428 5050 5379 12857 619 537 2594
Total IHA	FE FN FS EK KB	# 1269 2447 3267 6983 281 193 1224 870	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9	# 486 1078 680 2244 129 136 510 289	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5	# 97 373 198 668 67 89 238 123	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6	# 1852 3898 4145 9895 477 418 1972 1282	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33	# 543 1129 1217 2889 114 106 600 484	# 2428 5050 5379 12857 619 537 2594 1799
Total IHA	FE FN FS EK KB OK TC	# 1269 2447 3267 6983 281 193 1224 870 2568	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9	# 486 1078 680 2244 129 136 510 289 1064	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5	# 97 373 198 668 67 89 238 123 517	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6	# 1852 3898 4145 9895 477 418 1972 1282 4149	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96	# 543 1129 1217 2889 114 106 600 484 1304	# 2428 5050 5379 12857 619 537 2594 1799 5549
Total IHA	FE FN FS EK KB OK TC	# 1269 2447 3267 6983 281 193 1224 870 2568 283	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 44.8	#486 1078 680 2244 129 136 510 289 1064 225	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7	# 97 373 198 668 67 89 238 123 517 123	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5	# 1852 3898 4145 9895 477 418 1972 1282 4149 631	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13	# 543 1129 1217 2889 114 106 600 484 1304	# 2428 5050 5379 12857 619 537 2594 1799 5549
Total IHA	FE FN FS EK KB OK TC	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 61.9 44.8 46.1	#486 1078 680 2244 129 136 510 289 1064 225 432	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9	# 97 373 198 668 67 89 238 123 517 123 217	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29	# 543 1129 1217 2889 114 106 600 484 1304 180 340	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573
Total IHA Total NHA	FE FN FS EK KB OK TC	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 61.9 44.8 46.1 58.3	#486 1078 680 2244 129 136 510 289 1064 225 432 204	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5	# 97 373 198 668 67 89 238 123 517 123 217 105	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981
Total IHA Total NHA	FE FN FS EK KB OK TC	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432 1270	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 61.9 44.8 46.1 58.3 49.3	#486 1078 680 2244 129 136 510 289 1064 225 432 204 861	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5 33.4	# 97 373 198 668 67 89 238 123 517 123 217 105 445	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2 17.3	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741 2576	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14 56	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432 1270 870	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 61.9 44.8 46.1 58.3 49.3	#486 1078 680 2244 129 136 510 289 1064 225 432 204 861	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5 33.4 28.9	# 97 373 198 668 67 89 238 123 517 123 217 105 445 213	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2 17.3	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741 2576 1524	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14 56 19	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019
Total IHA Total NHA	FE FN FS EK KB OK TC NE NI NW	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432 1270 870 708	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 44.8 46.1 58.3 49.3 57.1 68.1	#486 1078 680 2244 129 136 510 289 1064 225 432 204 861 441 288	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5 33.4 28.9 27.7	# 97 373 198 668 67 89 238 123 517 123 217 105 445 213 44	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2 17.3 14.0 4.2	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741 1524 1040	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14 56 19 3	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432 1270 870 708 675	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 44.8 46.1 58.3 49.3 57.1 68.1 55.6	#486 1078 680 2244 129 136 510 289 1064 225 432 204 861 441 288 379	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5 33.4 28.9 27.7 31.2	# 97 373 198 668 67 89 238 123 517 123 217 105 445 213 44 159	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2 17.3 14.0 4.2 13.1	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741 2576 1524 1040 1213	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14 56 19 3 6	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432 1270 870 708 675 2253	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 61.9 44.8 46.1 58.3 49.3 57.1 68.1 55.6 59.7	#486 1078 680 2244 129 136 510 289 1064 225 432 204 861 441 288 379 1108	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5 33.4 28.9 27.7 31.2	# 97 373 198 668 67 89 238 123 517 123 217 105 445 213 44 159 416	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2 17.3 14.0 4.2 13.1 11.0	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741 1524 1040 1213 3777	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14 56 19 3 6 28	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446 1278	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 1269 2447 3267 6983 281 193 1224 870 2568 283 555 432 1270 870 675 2253 690	% 68.5 62.8 78.8 70.6 58.9 46.2 62.1 67.9 44.8 46.1 58.3 49.3 57.1 68.1 55.6	#486 1078 680 2244 129 136 510 289 1064 225 432 204 861 441 288 379	26.2 27.7 16.4 22.7 27.0 32.5 25.9 22.5 25.6 35.7 35.9 27.5 33.4 28.9 27.7 31.2	# 97 373 198 668 67 89 238 123 517 123 217 105 445 213 44 159	% 5.2 9.6 4.8 6.8 14.0 21.3 12.1 9.6 12.5 19.5 18.0 14.2 17.3 14.0 4.2 13.1	# 1852 3898 4145 9895 477 418 1972 1282 4149 631 1204 741 2576 1524 1040 1213	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 33 23 17 73 28 13 22 33 96 13 29 14 56 19 3 6	# 543 1129 1217 2889 114 106 600 484 1304 180 340 226 746 476 356 446	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665

SVI

Total

PHSA

Province

HB

1265 53.0

54.2

59.0

0.0

61.9

2182

2935

18191

739 31.0

30.1

29.7

0.0

27.1

1212

1479

7968

381 16.0

11.3

11.0

630 15.7

560

3236

0.0

2385

4024

4974

29395

0

100.0

100.0

100.0

100.0

0.0

29

55

21

362

691

807

1297

1778

9292

0

3221

5376

6773

362

39378

Health Au	thority (HA)
FHA	Fraser HA
IHA	Interior HA
NHA	Northern HA
VCHA	Vancouver Coastal HA
VIHA	Vancouver Island HA
PHSA	Provincial Health Services
	Authority
HB	Home Births

Health S	Service Delivery Area (HSDA)
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

UNKN/NA

- Mothers who delivered vaginally and the PP LOS could not be determined - the time of delivery was not recorded
- Mothers who delivered prior to admission to hospital
- 3) Moms transferred to other hospitals
- 4) Home Births

NA/CS

Mothers who delivered by C/Section

Time Groupings

<48 hours includes 47.9999999... or less 48-72 hours includes 48.0 to 72.0 >72 hours includes 72.000001.... or greater

Postpartum Length of Stay (C/Section Deliveries) 2001/2002, 2000/2001

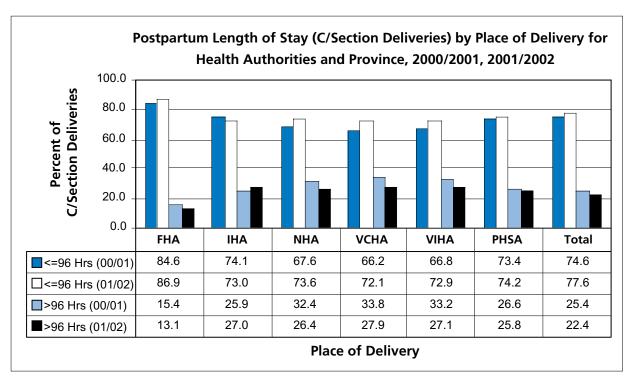
(Refer to Data Table 11)

Analysis is by place of delivery as the practices of institutions have a greater impact on the postpartum length of stay for women than where the woman resides, even though in some circumstances the residence of the mother may be a factor in determining length of stay.

In 2001/2002, the provincial postpartum length of stay greater than 96 hours for caesarean section deliveries was 22.4%, in 2000/2001 it was 25.4%. The Fraser HA was the only health authority below the provincial level at 13.1%. All of the other health authorities had rates above the provincial rate but similar to each other.

47.3% of the patients in the Kootenay Boundary HSDA in 2001/2002 had a postpartum length of stay greater than 96 hours, which was more than double the provincial rate. In 2000/2001, the highest rate of patients with a postpartum length of stay greater than 96 hours was in Kootenay Boundary at rate of 51.5%. In contrast, Fraser South (both years) had the lowest postpartum length of stay greater than 96 hours at 9.9% and 9.7% respectively.

Figure 11



Health Authority (HA) Legend			
FHA	Fraser		
IHA	Interior		
NHA	Northern		
VCHA	Vancouver Coastal		
VIHA	Vancouver Island		
PHSA	Provincial Health		
	Services Authority		

Table 11 Postpartum Length of Stay (C/Section Deliveries) by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

2001/2002

		_				1/2002				
		<=96 l		>96 F		Appli	tal icable	UNKN /NA	NA/Vag	Total
НА	HSDA	#	%	#	%	#	%	#	#	#
FHA	FE	479	86.0	78	14.0	557	100.0	34	1919	2510
	FN	1069	83.3	214	16.7	1283	100.0	4	3735	5022
	FS	1309	90.3	140	9.7	1449	100.0	3	4016	5468
Total	=14	2857	86.9	432	13.1	3289	100.0	41	9670	13000
IHA	EK	61	64.2	34	35.8	95	100.0	8	467	570
	KB	58	52.7	52	47.3	110	100.0	7	408	525
	OK	455	74.5	156	25.5	611	100.0	5	1912	2528
	TC	401	77.3	118	22.7	519	100.0	19	1278	1816
Total		975	73.0	360	27.0	1335	100.0	39	4065	5439
NHA	NE	122	68.2	57	31.8	179	100.0	1	677	857
	NI	304	78.1	85	21.9	389	100.0	15	1114	1518
	NW	162	70.1	69	29.9	231	100.0	13	695	939
Total		588	73.6	211	26.4	799	100.0	29	2486	3314
VCHA	NSCG	316	67.1	155	32.9	471	100.0	11	1350	1832
	RICH	328	78.8	88	21.2	416	100.0	1	1024	1441
	VANC	353	71.2	143	28.8	496	100.0	5	1230	1731
Total		997	72.1	386	27.9	1383	100.0	17	3604	5004
VIHA	CVI	326	70.9	134	29.1	460	100.0	18	1385	1863
	NVI	81	75.7	26	24.3	107	100.0	3	324	434
	SVI	673	73.6	241	26.4	914	100.0	13	2289	3216
Total		1080	72.9	401	27.1	1481	100.0	34	3998	5513
PHSA		1369	74.2	476	25.8	1845	100.0	4	4662	6511
НВ		0	0.0	0	0.0	0	0.0	455	0	455
Provinc	e	7866	77.6	2266	22.4	10132	100.0	619	28485	39236
					200	0/2001				
		Total UNKI								
		<=96 H	ours	>96 F	lours	Appli	cable	/NA	NA/Vag	Total
НА	HSDA	<=96 H #	ours %	>96 F #	lours %	Appli #	cable %	/NA #	NA/Vag #	Total #
HA FHA	HSDA FE									#
		#	%	#	%	#	%	#	#	#
	FE	# 445	% 85.7	# 74	% 14.3	# 519	% 100.0	# 24	# 1885	# 2428
	FE FN	# 445 881	% 85.7 78.1	# 74 247	% 14.3 21.9	# 519 1128	% 100.0 100.0	# 24 1	# 1885 3921	# 2428 5050
FHA	FE FN	# 445 881 1088	% 85.7 78.1 90.1	# 74 247 119	% 14.3 21.9 9.9	# 519 1128 1207	% 100.0 100.0 100.0	# 24 1 10	# 1885 3921 4162	# 2428 5050 5379
FHA Total	FE FN FS	# 445 881 1088 2414	% 85.7 78.1 90.1 84.6	# 74 247 119 440	% 14.3 21.9 9.9 15.4	# 519 1128 1207 2854	% 100.0 100.0 100.0 100.0	# 24 1 10 35	# 1885 3921 4162 9968	# 2428 5050 5379 12857 619
FHA Total	FE FN FS	# 445 881 1088 2414 62	% 85.7 78.1 90.1 84.6 60.8	# 74 247 119 440	% 14.3 21.9 9.9 15.4 39.2	# 519 1128 1207 2854 102	% 100.0 100.0 100.0 100.0	# 24 1 10 35	# 1885 3921 4162 9968 505	# 2428 5050 5379 12857 619
FHA Total	FE FN FS EK KB	# 445 881 1088 2414 62 50	% 85.7 78.1 90.1 84.6 60.8 48.5	# 74 247 119 440 40 53	% 14.3 21.9 9.9 15.4 39.2 51.5	# 519 1128 1207 2854 102 103	% 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3	# 1885 3921 4162 9968 505 431	# 2428 5050 5379 12857 619 537
FHA Total	FE FN FS EK KB OK	# 445 881 1088 2414 62 50 460	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4	# 74 247 119 440 40 53 134	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6	# 519 1128 1207 2854 102 103 594	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6	# 1885 3921 4162 9968 505 431 1994	# 2428 5050 5379 12857 619 537 2594
Total IHA	FE FN FS EK KB OK	# 445 881 1088 2414 62 50 460 362	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5	# 74 247 119 440 40 53 134 99	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5	# 519 1128 1207 2854 102 103 594 461	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23	# 1885 3921 4162 9968 505 431 1994 1315	# 2428 5050 5379 12857 619 537 2594 1799
Total IHA	FE FN FS EK KB OK TC	# 445 881 1088 2414 62 50 460 362 934	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5	# 74 247 119 440 40 53 134 99	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5	# 519 1128 1207 2854 102 103 594 461 1260	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23	# 1885 3921 4162 9968 505 431 1994 1315 4245	# 2428 5050 5379 12857 619 537 2594 1799
Total IHA	FE FN FS EK KB OK TC	# 445 881 1088 2414 62 50 460 362 934	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7	# 74 247 119 440 40 53 134 99 326	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3	# 519 1128 1207 2854 102 103 594 461 1260	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44	# 1885 3921 4162 9968 505 431 1994 1315 4245 644	# 2428 5050 5379 12857 619 537 2594 1799 824 1573
Total IHA	FE FN FS EK KB OK TC	# 445 881 1088 2414 62 50 460 362 934 118 228	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9	# 74 247 119 440 40 53 134 99 326 59 98	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1	# 519 1128 1207 2854 102 103 594 461 1260 177 326	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981
Total Total NHA	FE FN FS EK KB OK TC	# 445 881 1088 2414 62 50 460 362 934 118 228 142	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8	# 74 247 119 440 40 53 134 99 326 59 98 77	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981
Total Total NHA Total	FE FN FS EK KB OK TC	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6	# 74 247 119 440 40 53 134 99 326 59 98 77 234	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378
Total Total NHA Total	FE FN FS EK KB OK TC NE NI NW	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6	# 74 247 119 440 40 53 134 99 326 59 98 77 234	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019
Total Total NHA Total	FE FN FS EK KB OK TC NE NI NW	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083
Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273 829	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9 66.2	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168 424	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1 33.8	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441 1253	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083
Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273 829 255 63	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9 66.2 64.6 73.3	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168 424 140 23	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1 33.8 35.4 26.7	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441 1253 395 86	% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5 25 6 3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083
Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273 829 255 63 532	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9 66.2 64.6 73.3 67.3	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168 424 140 23 259	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1 33.8 35.4 26.7 32.7	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441 1253 395 86 791	% 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5 25 6 3 16	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221
Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273 829 255 63 532 850	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9 66.2 64.6 73.3 67.3	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168 424 140 23 259	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1 33.8 35.4 26.7 32.7 33.2	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441 1253 395 86 791 1272	% 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5 25 6 3	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376
Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273 829 255 63 532	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9 66.2 64.6 73.3 67.3 66.8 73.4	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168 424 140 23 259	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1 33.8 35.4 26.7 32.7 33.2 26.6	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441 1253 395 86 791	% 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5 25 6 3 16 25 7	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1665 5083 1739 416 3221 5376 6773
Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 445 881 1088 2414 62 50 460 362 934 118 228 142 488 276 280 273 829 255 63 532 850 1300	% 85.7 78.1 90.1 84.6 60.8 48.5 77.4 78.5 74.1 66.7 69.9 64.8 67.6 59.4 80.7 61.9 66.2 64.6 73.3 67.3	# 74 247 119 440 40 53 134 99 326 59 98 77 234 189 67 168 424 140 23 259 422 471	% 14.3 21.9 9.9 15.4 39.2 51.5 22.6 21.5 25.9 33.3 30.1 35.2 32.4 40.6 19.3 38.1 33.8 35.4 26.7 32.7 33.2	# 519 1128 1207 2854 102 103 594 461 1260 177 326 219 722 465 347 441 1253 395 86 791 1272 1771	% 100.0	# 24 1 10 35 12 3 6 23 44 3 14 7 24 11 9 5 25 6 3 16 25	# 1885 3921 4162 9968 505 431 1994 1315 4245 644 1233 755 2632 1543 1043 1219 3805 1338 327 2414 4079 4995	# 2428 5050 5379 12857 619 537 2594 1799 5549 824 1573 981 3378 2019 1399 1665 5083 1739 416 3221 5376

Health Authority (HA)					
FHA	Fraser HA				
IHA	Interior HA				
NHA	Northern HA				
VCHA	Vancouver Coastal HA				
VIHA	Vancouver Island HA				
PHSA	Provincial Health Services				
	Authority				
НВ	Home Births				

Health Service Delivery Area (HSDA)					
FE	Fraser East				
FN	Fraser North				
FS	Fraser South				
EK	East Kootenay				
KB	Kootenay Boundary				
OK	Okanagan				
TC	Thompson Cariboo Shuswap				
NE	Northeast				
NI	Northern Interior				
NW	Northwest				
NSCG	Northshore/Coast Garibaldi				
RICH	Richmond				
VANC	Vancouver				
CVI	Central Vancouver Island				
NVI	Northern Vancouver Island				
SVI	Southern Vancouver Island				

UNKN/NA

- 1) Mothers who delivered by C/Section and the PP LOS could not be determined - the time of delivery was not recorded
- Mothers who delivered by C/Section and then transferred to other hospitals
- 3) Home Births

NA/Vag

Mothers who delivered vaginally

Time Groupings

<=96 hours includes 96.0 or less >96 hours includes 96.0000001.... or more

SECTION III

FETAL AND NEWBORN INDICATORS



SECTION III FETAL AND NEWBORN INDICATORS

Low and Very Low Birth Weight Rate by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 (Refer to Data Table 12)

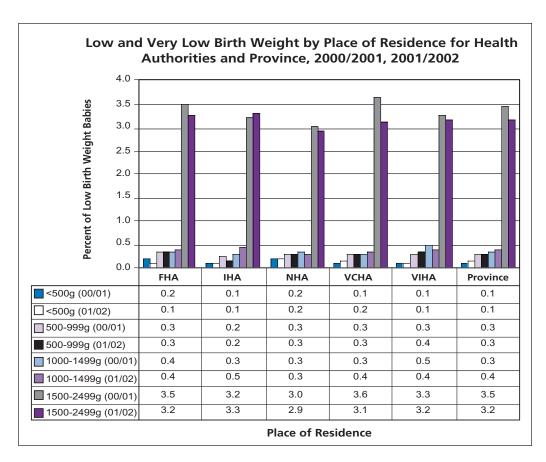
Preterm birth has been identified as one of the most important perinatal health problems in industrialised nations and it accounts for 75% - 85% of all perinatal mortality in Canada (SOGC, Joint Position Paper on Rural Maternity Care, 1998). No etiologic determinant of neonatal and infant mortality is more important than low birth weight in general, and very low birth weight in particular. Low and very low birth weight are also important determinants of neonatal and infant morbidity, including neuro-developmental handicap, chronic respiratory problems and retinopathies (Behrman & Shiono, 1997).

Analysis is by place of residence as opposed to place of delivery. As with the Neonatal/Perinatal/Infant Mortality report, it is socio-demographic factors that will have the greatest impact on determining low birth weight.

Low birth weight (LBW) is classified as less than 2,500 grams. Low birth weight may be due to premature birth (less than 37 weeks gestational age) or intrauterine growth restriction. Those babies weighing less than 1,500 grams are classified as very low birth weight (VLBW); neonatal mortality rates are highest among the very low birth weight group.

In 2001/2002, the total provincial low birth weight rate, (which includes very low birth weight) was 4.0%. In 2000/2001, the rate was 4.2%. The variation of the rates among the health authorities was not remarkable. However, the Thompson Cariboo Shuswap HSDA had a higher rate at 4.7%. The provincial rate for 1,500 - 2,499 gram babies was 3.2%, and again the rates were very similar among the various health authorities. This was also the case for the previous year. The provincial rate for very low birth weight for both years was less than 1% (0.8% in 2001/2002 and 0.7% in 2000/2001). With rates this low it is difficult to comment on clustering and trends.

Figure 12



Health Authority (HA) Legend				
FHA	Fraser			
IHA	Interior			
NHA	Northern			
VCHA	Vancouver Coastal			
VIHA	Vancouver Island			

Table 12 Low and Very Low Birth Weight by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001

								2001/	2002						
		<5	00g	500-	-999g		00- 99g	150 249		Total Birtl	Low n Wt	Tota	I NB	UNKN Wt	>=2500g
НА	HSDA	#	%	#	%	#	%	#	%	#	%	#	%	#	#
FHA	FE	2	0.1	5	0.2	13	0.5	88	3.1	108	3.8	2871	100.0	7	2756
	FN	6	0.1	17	0.3	17	0.3	166	3.0	206	3.8	5468	100.0	7	5255
	FS	7	0.1	28	0.4	28	0.4	236	3.5	299	4.4	6753	100.0	6	6448
Total		15	0.1	50	0.3	58	0.4	490	3.2	613	4.1	15092	100.0	20	14459
IHA	EK	0	0.0	1	0.2	2	0.3	16	2.6	19	3.1	606	100.0	0	587
	KB	0	0.0	0	0.0	4	0.7	20	3.4	24	4.1	590	100.0	1	565
	OK	2	0.1	5	0.2	9	0.4	76	3.0	92	3.7	2503	100.0	0	2411
	TC	3	0.2	3	0.2	10	0.6	69	3.8	85	4.7	1807	100.0	3	1719
Total	NE	5	0.1	9	0.2	25	0.5	181	3.3	220	4.0	5506	100.0	4	5282
NHA	NE	0	0.0	0	0.0	2	0.2	29	3.4	31 57	3.7	843	100.0	3	809
	NI	4	0.3	5	0.3	4	0.3	44	2.8	57	3.6	1576	100.0	4	1515
	NW	3	0.3	4	0.4	4	0.4	27	2.7	38	3.9	982	100.0	6	938
Total	NOOO	7	0.2	9	0.3	10	0.3	100	2.9	126	3.7	3401	100.0	13	3262
VCHA	NSCG	4	0.2	3	0.1	6	0.3	62	2.8	75 50	3.4	2191	100.0	1	2115
	RICH	3	0.2	3	0.2	4	0.3	42	2.7	52	3.4	1534	100.0	2	1480
T-4-1	VANC	7	0.1	19	0.3	24	0.4	186	3.3	236	4.2	5601	100.0	4	5361
Total VIHA	CVI	14	0.2	25	0.3	34	0.4	290	3.1	363	3.9	9326	100.0	7	8956
VIIIA		1	0.1	6	0.3	8	0.4	53	2.8	68	3.6	1898	100.0	2	1828
	NVI SVI	0	0.0	6 8	1.1	0 14	0.0	16	2.8	22	3.9	570	100.0	0 5	548
	SVI	_		_	0.2			111	3.5	137	4.3	3205	100.0		3063
Total	PDEC	5	0.1	20	0.4	22	0.4	180	3.2	227	4.0	5673 84	100.0	7	5439
NONRE		1	1.2	1	1.2	1 1	1.2	5	3.6	12	7.1			0	78
Province		48	0.6	120	3.9 0.3	151	0.6	1249	3.2	13 1568	8.4 4.0	154 39236	100.0	51	141 37617
		_								1000	7.0	03200	100.0	<u> </u>	3/01/
								2000/	2001			33230	100.0		57017
		<50)0g	500-9	99g	100	0-	2000/	2001 00-	Total I Birth	Low	Tota	al NB	UNKN Wt	>=2500g
НА	HSDA	<50 #	00g %			100	0-	2000 /	2001 00-	Total	Low			UNKN	
HA FHA	FE			500-9	99g	100 149	0- 9g	2000/ 150 249	2001 00- 99g	Total I Birth	Low Wt	Tota	al NB	UNKN Wt	>=2500g
	FE FN	#	%	500-9 #	99g %	100 149 #	0- 9g %	2000/ 150 249 #	2001 00- 99g %	Total I Birth	Low Wt	Tota	al NB	UNKN Wt #	>=2500g #
	FE	# 1 11 11	% 0.0 0.2 0.2	500-9 # 1 18 28	99g % 0.0 0.3 0.4	100 149 # 13 16 24	0- 9g % 0.5 0.3 0.4	2000/ 150 249 # 87 201 236	2001 00- 19g % 3.2 3.7 3.5	Total I Birth # 102 246 299	% 3.7 4.5 4.4	Tota # 2732 5459 6730	100.0 100.0 100.0	UNKN Wt # 4 3 8	>=2500g # 2626 5210 6423
FHA Total	FE FN FS	# 1 11	% 0.0 0.2	500-9 # 1 18	99g % 0.0 0.3	100 149 # 13 16	0- 9g % 0.5 0.3 0.4 0.4	2000/ 150 249 # 87 201	2001 00- 99g % 3.2 3.7	Total Birth # 102 246	Low Wt % 3.7 4.5	Tota # 2732 5459	% 100.0 100.0	UNKN Wt # 4 3	>=2500g # 2626 5210
FHA	FE FN FS	# 1 11 11	% 0.0 0.2 0.2 0.2	500-9 # 1 18 28	999g % 0.0 0.3 0.4 0.3	100 149 # 13 16 24	0-9g % 0.5 0.3 0.4 0.4	2000// 150 249 # 87 201 236 524	2001 00- 19g % 3.2 3.7 3.5 3.5	Total I Birth # 102 246 299 647 18	% 3.7 4.5 4.4 4.3 2.8	Tota # 2732 5459 6730 14921 648	100.0 100.0 100.0 100.0 100.0	UNKN Wt 4 3 8 15	>=2500g # 2626 5210 6423 14259 630
FHA Total	FE FN FS EK KB	# 1 11 11 23	% 0.0 0.2 0.2 0.2	500-9 # 1 18 28 47	999g % 0.0 0.3 0.4 0.3	100 149 # 13 16 24 53	0- 9g % 0.5 0.3 0.4 0.4	2000// 150 249 # 87 201 236 524	2001 00- 99g % 3.2 3.7 3.5 3.5	Total Birth # 102 246 299 647	% 3.7 4.5 4.4 4.3	Tota # 2732 5459 6730 14921	100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15	>=2500g # 2626 5210 6423 14259
FHA Total	FE FN FS EK KB OK	# 1 11 11 23 1 0 2	% 0.0 0.2 0.2 0.2 0.2 0.0 0.1	500-9 # 1 18 28 47	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2	100 149 # 13 16 24 53 0 1 6	0- 9g % 0.5 0.3 0.4 0.4 0.0 0.2	# 87 201 236 524 16 15 86	2001 00- 19g % 3.2 3.7 3.5 3.5	Total I Birth # 102 246 299 647 18 17 102	% 3.7 4.5 4.4 4.3 2.8 2.8 4.0	Tota # 2732 5459 6730 14921 648 601 2560	# NB % 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt 4 3 8 15	>=2500g # 2626 5210 6423 14259 630 584 2457
Total IHA	FE FN FS EK KB	# 1 11 23 1 0 2 2	% 0.0 0.2 0.2 0.2 0.2 0.0 0.1	500-9 # 1 18 28 47 1 1 8 4	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.3 0.2	100 149: # 13 16 24 53 0 1 6 8	0-9g % 0.5 0.3 0.4 0.4 0.0 0.2 0.2	2000// 150 249 # 87 201 236 524 16 15 86 66	2001 00- 19g % 3.2 3.7 3.5 2.5 2.5 3.4 3.6	Total I Birth # 102 246 299 647 18 17 102 80	% 3.7 4.5 4.4 4.3 2.8 2.8 4.0 4.3	Tota # 2732 5459 6730 14921 648 601 2560 1846	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 1	>=2500g # 2626 5210 6423 14259 630 584 2457 1765
Total IHA	FE FN FS EK KB OK TC	# 1 11 23 1 0 2 5	% 0.0 0.2 0.2 0.2 0.2 0.1 0.1 0.1	500-9 # 1 18 28 47 1 1 8 4 14	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.3 0.2	100 149 # 13 16 24 53 0 1 6 8	0-9g % 0.5 0.3 0.4 0.4 0.0 0.2 0.2 0.4 0.3	2000// 150 249 # 87 201 236 524 16 15 86 66 183	2001 00- 19g % 3.2 3.7 3.5 3.5 2.5 2.5 3.4 3.6 3.2	Total I Birth # 102 246 299 647 18 17 102 80 217	% 3.7 4.5 4.4 4.3 2.8 2.8 4.0 4.3 3.8	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 1 2	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436
Total IHA	FE FN FS EK KB OK TC	# 1 11 23 1 0 2 2	% 0.0 0.2 0.2 0.2 0.2 0.0 0.1	500-9 # 1 18 28 47 1 1 8 4	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.3 0.2	100 149: # 13 16 24 53 0 1 6 8	0-9g % 0.5 0.3 0.4 0.4 0.0 0.2 0.2	2000// 150 249 # 87 201 236 524 16 15 86 66	2001 00- 19g % 3.2 3.7 3.5 2.5 2.5 3.4 3.6	Total I Birth # 102 246 299 647 18 17 102 80	% 3.7 4.5 4.4 4.3 2.8 2.8 4.0 4.3	Tota # 2732 5459 6730 14921 648 601 2560 1846	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 1	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436
Total IHA	FE FN FS EK KB OK TC NE NI	# 1 11 23 1 0 2 2 5 6 1	% 0.0 0.2 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1	500-9 # 18 28 47 1 1 8 4 14 1 3	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.3 0.2 0.2 0.1 0.2	100 149 # 13 16 24 53 0 1 6 8 15	0-99 % 0.5 0.3 0.4 0.4 0.0 0.2 0.2 0.4 0.3	2000// 150 249 # 87 201 236 524 16 15 86 66 183 18	2001 00- 99g % 3.2 3.7 3.5 2.5 2.5 3.4 3.6 3.2 3.7	Total I Birth # 102 246 299 647 18 17 102 80 217 26 69	% 3.7 4.5 4.4 4.3 2.8 2.8 4.0 4.3 3.8 3.2 4.3	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522
Total IHA Total NHA	FE FN FS EK KB OK TC	# 1 11 23 1 0 2 2 5 6 1 0	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0	500-9 # 18 28 47 1 1 8 4 14 1 3 6	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.3 0.2 0.1 0.2 0.1	100 149 # 13 16 24 53 0 1 6 8 8 15 1 6 5	0-99g % 0.5 0.3 0.4 0.4 0.2 0.2 0.4 0.3 0.1 0.4 0.5	2000// 150 249 87 201 236 524 16 15 86 66 183 18 59 27	2001 00- 199g % 3.2 3.5 3.5 2.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6	Total I Birth # 102 246 299 647 18 17 102 80 217 26 69 38	2.8 2.8 4.0 4.3 3.2 4.3 3.2 4.3 3.7	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994
Total IHA Total NHA Total	FE FN FS EK KB OK TC NE NI NW	# 1 11 23 1 0 2 2 5 6 1 0 7	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.1 0.7 0.1 0.0 0.2	500-9 # 1 18 28 47 1 1 8 4 14 13 6	99g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.1 0.2 0.1 0.2 0.6 0.3	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 5	0-999 % 0.5 0.3 0.4 0.2 0.2 0.4 0.3 0.1 0.4 0.5	2000/ 150 249 # 87 201 236 524 16 15 86 66 183 18 59 27	2001 00- 99g % 3.2 3.5 3.5 2.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133	% 3.7 4.5 4.4 4.3 2.8 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307
Total Total NHA	FE FN FS EK KB OK TC NE NI NW	# 1 11 23 1 0 2 2 5 6 1 0 7	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	500-9 # 1 18 28 47 1 1 8 4 14 1 3 6 10	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.3 0.2 0.1 0.6 0.3 0.1	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 1 4	0-99 % 0.5 0.3 0.4 0.2 0.2 0.4 0.3 0.1 0.4 0.5 0.3	2000// 150 249 87 201 236 524 16 15 86 66 183 18 59 27	2001 000- 99g % 3.2 3.7 3.5 2.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0 2.8	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75	% 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9 3.2	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297
Total IHA Total NHA Total	FE FN FS EK KB OK TC NE NI NW	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.1 0.7 0.1 0.0 0.2 0.0 0.3	500-9 # 1 18 28 47 1 1 8 4 14 1 3 6 10 3 4	999g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.3 0.2 0.1 0.6 0.3 0.1 0.3	1000 1499 # 13 16 24 53 0 1 6 8 8 15 1 6 5 12 4 3	0-9g % 0.5 0.3 0.4 0.4 0.0 0.2 0.2 0.4 0.3 0.1 0.4 0.5 0.3	2000// 150/249/249/201 236/524 16/58/66/66/183 18/59/27/104/67/62	2001 000- 99g % 3.2 3.5 3.5 2.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0 2.8 4.0	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75 73	% 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9 3.2 4.7	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 1 2 0 3 1 4 4 2 5	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 1 11 23 1 0 2 2 5 6 1 0 0 7 1 4 9	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.2 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.2	500-9 # 1 18 28 47 1 1 8 4 14 1 3 6 10 3 4 19	99g % 0.0 0.3 0.4 0.2 0.2 0.2 0.1 0.2 0.1 0.2 0.6 0.3 0.1 0.3 0.3	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 12 4 3 20	0-9g % 0.5 0.3 0.4 0.0 0.2 0.2 0.4 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.2 0.3	2000// 150 249 236 87 201 236 16 15 86 66 183 18 59 27 104 67 62 223	2001 000- 99g % 3.2 3.5 3.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0 2.8 4.0 3.9	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75 73 271	% 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9 3.2 4.7 4.7	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2 5 3	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4 9 14	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.2 0.0 0.3 0.2 0.0	500-9 # 1 1 18 28 47 1 1 8 4 14 1 3 6 10 3 4 19 26	99g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.1 0.2 0.1 0.2 0.6 0.3 0.1 0.3 0.3 0.3	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 12 4 3 20 27	0-99g % 0.5 0.3 0.4 0.4 0.0 0.2 0.4 0.3 0.1 0.4 0.5 0.3 0.2 0.2 0.4 0.5 0.3 0.2 0.2 0.3 0.3	2000/ 150 249 249 201 236 524 16 15 86 66 183 18 59 27 104 67 62 223 352	2001 000- 99g % 3.2 3.5 2.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0 2.8 4.0 3.9 3.6	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75 73 271 419	Low Wt % 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9 3.2 4.7 4.7	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 1 2 0 3 1 4 2 5 3 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470 9238
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4 9 14 1	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.2 0.0 0.3 0.2 0.1 0.1 0.1	500-9 # 1 1 18 28 47 1 1 8 4 14 1 3 6 10 3 4 19 26	99g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.1 0.2 0.6 0.3 0.1 0.3 0.3 0.4	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 12 4 3 20 27 6	0-99g % 0.5 0.3 0.4 0.4 0.0 0.2 0.2 0.4 0.3 0.1 0.4 0.5 0.3 0.2 0.2 0.3 0.3 0.3	2000/ 150 249 249 236 524 16 15 86 66 183 18 59 27 104 67 62 223 352 61	2001 000- 99g % 3.2 3.5 2.5 2.5 3.4 3.6 3.0 2.8 4.0 3.9 3.6 3.4	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75 73 271 419 75	% 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.7 3.9 3.2 4.7 4.7 4.3 4.2	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2 5 3 10 2	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470 9238 1721
Total IHA Total NHA Total VCHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4 9 14 1 1	% 0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.1 0.0 0.2 0.0 0.1 0.1 0.0 0.2 0.0 0.3 0.2 0.1 0.1 0.2	500-9 # 1 18 28 47 1 1 8 4 14 1 3 6 10 3 4 19 26 7 2	99g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.1 0.2 0.1 0.2 0.3 0.1 0.3 0.3 0.3 0.3 0.4 0.4	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 12 4 3 20 27 6 7	0-99g % 0.5 0.3 0.4 0.4 0.0 0.2 0.4 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.1 0.1 0.4 0.5 0.3 0.3 0.3 0.3	2000/ 150 249 249 201 236 524 16 15 86 66 183 18 59 27 104 67 62 223 352 61 23	2001 000- 99g % 3.2 3.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0 2.8 4.0 3.9 3.6 3.4 4.0 3.9	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 75 73 271 419 75 33	Low Wt % 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9 3.2 4.7 4.7 4.3 4.2 5.9	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2 5 3 10 2 0	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470 9238 1721 529
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4 9 14 1 1 6	0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.3 0.2 0.1 0.1 0.2 0.2	500-9 # 1 1 8 28 47 1 1 8 4 14 1 3 6 10 3 4 19 26 7 2 8	99g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.1 0.2 0.6 0.3 0.1 0.3 0.3 0.4 0.4 0.4 0.3	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 12 4 3 20 27 6 7 13	0-999 % 0.5 0.3 0.4 0.0 0.2 0.2 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.2 0.2 0.3 0.3 0.3 1.2 0.4	2000/ 150 249 249 236 524 16 15 86 66 183 18 59 27 104 67 62 223 352 61 23 95	2001 000- 99g % 3.2 3.5 2.5 2.5 3.4 3.6 3.0 2.8 4.0 3.9 3.6 3.4 4.1 3.0	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75 73 271 419 75 33 122	% 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.7 3.9 3.2 4.7 4.7 4.3 4.2 5.9 3.9	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562 3146	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2 5 3 10 2 0 2	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470 9238 1721 529 3022
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4 9 14 1 1 6 8	0.0 0.2 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.3 0.2 0.1 0.1 0.2 0.1	500-9 # 1 18 28 47 1 1 8 4 14 1 3 6 10 3 4 19 26 7 2 8 17	99g % 0.0 0.3 0.4 0.2 0.2 0.2 0.1 0.2 0.1 0.2 0.3 0.1 0.2 0.6 0.3 0.1 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3	1000 1499 # 13 16 24 53 0 1 6 8 15 1 2 4 3 20 27 6 7 13 26	0-99g % 0.5 0.3 0.4 0.4 0.0 0.2 0.4 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.2 0.3 0.3 0.3 0.3 1.2 0.4 0.5	2000/ 150 245 87 201 236 524 16 15 86 66 183 18 59 27 104 67 62 223 352 61 23 95	2001 000- 99g % 3.2 3.5 2.5 3.4 3.6 3.2 2.2 3.7 2.6 3.0 2.8 4.0 3.9 3.6 3.4 4.1 3.0 3.3	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 75 73 271 419 75 33 122 230	Low Wt % 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.8 3.2 4.3 3.7 3.9 3.2 4.7 4.7 4.3 4.2 5.9 3.9 4.2	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562 3146 5506	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2 5 3 10 2 0 2 4	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470 9238 1721 529 3022 5272
Total IHA Total NHA Total VCHA Total VIHA	FE FN FS EK KB OK TC NE NI NW NSCG RICH VANC CVI NVI SVI	# 1 11 23 1 0 2 2 5 6 1 0 7 1 4 9 14 1 1 6	0.0 0.2 0.2 0.2 0.0 0.1 0.1 0.7 0.1 0.0 0.3 0.2 0.1 0.1 0.2 0.2	500-9 # 1 1 8 28 47 1 1 8 4 14 1 3 6 10 3 4 19 26 7 2 8	99g % 0.0 0.3 0.4 0.3 0.2 0.2 0.2 0.1 0.2 0.6 0.3 0.1 0.3 0.3 0.4 0.4 0.4 0.3	1000 1499 # 13 16 24 53 0 1 6 8 15 1 6 5 12 4 3 20 27 6 6 7 13 26 0	0-999 % 0.5 0.3 0.4 0.4 0.0 0.2 0.4 0.3 0.1 0.4 0.5 0.3 0.1 0.4 0.5 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3	2000/ 150 249 249 236 524 16 15 86 66 183 18 59 27 104 67 62 223 352 61 23 95	2001 000- 99g % 3.2 3.5 2.5 2.5 3.4 3.6 3.0 2.8 4.0 3.9 3.6 3.4 4.1 3.0	Total Birth # 102 246 299 647 18 17 102 80 217 26 69 38 133 75 73 271 419 75 33 122	% 3.7 4.5 4.4 4.3 2.8 4.0 4.3 3.7 3.9 3.2 4.7 4.7 4.3 4.2 5.9 3.9	Tota # 2732 5459 6730 14921 648 601 2560 1846 5655 817 1594 1033 3444 2374 1549 5744 9667 1798 562 3146	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	UNKN Wt # 4 3 8 15 0 0 1 1 2 0 3 1 4 2 5 3 10 2 0 2	>=2500g # 2626 5210 6423 14259 630 584 2457 1765 5436 791 1522 994 3307 2297 1471 5470 9238 1721 529 3022

58 0.1 114 0.3 136 0.3 1360 3.5 1668 4.2 39378 100.0

Province

Health Authority (HA)				
FHA	Fraser HA			
IHA	Interior HA			
NHA	Northern HA			
VCHA	Vancouver Coastal HA			
VIHA	Vancouver Island HA			
PHSA	Provincial Health Services			
	Authority			
BCUNSPEC	BC residents with unknown			
	postal code			
NONRES	Non Resident of BC			

TOTAL	3 Iton Resident of Be
Health S (HSDA)	Service Delivery Area
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

37673

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Neonatal/Perinatal/Infant Mortality Rates by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2000/2001 (Refer to Data Table 13)

Infant mortality has been considered to be the single most comprehensive measure of health in a society (Canadian Institute for Health Information, 2003). In almost all developed countries, the rates of infant mortality have decreased dramatically over the last century, although the decline has been slower in recent years. According to the Canadian Perinatal Health Report (CPHR, 2000), infant mortality can be divided into three components:

- Early neonatal deaths (0 6 days)
- Late neonatal deaths (7 27 days)
- Post neonatal deaths (28 364 days)

Mortality rates can also be defined by utilising the underlying cause of death. Health Canada (2000), in the Canadian Perinatal Health Report, has also investigated temporal trends in cause-specific infant mortality rates. Important determinants of outcomes for newborns include maternal health and maternal care at delivery, as well as newborn care and infant environment. Estimates of preventable infant mortality among babies less that 1,500 grams may be largely attributable to sub-optimal maternal health (CPHR, 2000). Late neonatal deaths among infants with birth weights equal to or less than 1,500 grams may be due to sub-optimal maternal care or inadequate newborn care, including access to neonatal intensive care (CPHR, 2000). Late neonatal deaths among average weight babies are largely attributable to infant environment (ibid), rather than factors associated with pregnancy and birth.

The strong relationship between stillbirth and maternal factors (age, parity, nutritional status, smoking, inter-pregnancy interval) are well established and have been the focus of many epidemiological studies.

Analysis for the mortality report is by place of residence. The assumption underlying this analysis is that geographic location and associated demographic factors may have a greater impact on neonatal and perinatal mortality rates than place of delivery alone. This report contains singleton pregnancies, deliveries and births. Late terminations are not included in the statistics.

In 2000/2001, there were 39,175 singleton livebirths in BC. There were 203 stillbirths for a stillbirth rate of 5.2 per 1,000 births. Those residing in the Fraser HA in 2000/2001 had the highest stillbirth rate (5.6 per 1,000 births). Within the health service delivery areas, the Northeast had the highest stillbirth rate (9.8 per 1,000 births) compared to the Northern Interior (which is in the same health authority) with a stillbirth rate of only 1.9 per 1,000 births.

The provincial neonatal mortality rate was 2.4 per 1,000 births, the perinatal mortality rate was 7.0 per 1,000 births and the infant death rate was 3.4 per 1,000 births. Overall, the mortality rate was fairly consistent across the health authorities. The Vancouver Island HA had the highest neonatal mortality rate (2.9 per 1,000 births) and the highest infant death rate (4.5 per 1,000 births). The highest perinatal mortality rate was found in the Fraser HA at 7.4 per 1,000 births. The lowest rate for neonatal mortality was in the Interior HA at 2.0 per 1,000 births. The lowest infant death rate was found in the Vancouver Coastal HA at 2.7 per 1,000 births.

Table 13 Neonatal/Perinatal/Infant Mortality by Place of Residence for Health Service Delivery Areas, Health Authorities and Province, 2000/2001

					20	00/200	1							
НА	HSDA	Total Birth	Total Still Birth	Total Death	Total Live Birth	Still Birth Rate	END	LND	TND	PND	NMR	PMR	IDR	NSR
FHA	FE	2735	8	4	2727	2.9	2	1	3	1	1.1	3.7	1.5	998.9
	FN	5457	33	16	5424	6.0	10	2	12	4	2.2	7.9	2.9	997.8
	FS	6733	42	28	6691	6.2	15	4	19	9	2.8	8.5	4.2	997.2
Total		14925	83	48	14842	5.6	27	7	34	14	2.3	7.4	3.2	997.7
IHA	EK	648	2	3	646	3.1	2	0	2	1	3.1	6.2	4.6	996.9
	KB	601	2	1	599	3.3	0	1	1	0	1.7	3.3	1.7	998.3
	OK	2560	14	8	2546	5.5	3	2	5	3	2.0	6.6	3.1	998.0
	TC	1847	9	7	1838	4.9	2	1	3	4	1.6	6.0	3.8	998.4
Total		5656	27	19	5629	4.8	7	4	11	8	2.0	6.0	3.4	998.0
NHA	NE	818	8	3	810	9.8	2	0	2	1	2.5	12.2	3.7	997.5
	NI	1592	3	7	1589	1.9	4	0	4	3	2.5	4.4	4.4	997.5
	NW	1033	6	3	1027	5.8	2	1	3	0	2.9	7.7	2.9	997.1
Total		3443	17	13	3426	4.9	8	1	9	4	2.6	7.3	3.8	997.4
VCHA	NSCG	2377	10	3	2367	4.2	2	0	2	1	0.8	5.0	1.3	999.2
	RICH	1550	7	10	1543	4.5	9	0	9	1	5.8	10.3	6.5	994.2
	VANC	5742	27	13	5715	4.7	9	2	11	2	1.9	6.3	2.3	998.1
Total		9669	44	26	9625	4.6	20	2	22	4	2.3	6.6	2.7	997.7
VIHA	CVI	1797	12	9	1785	6.7	4	1	5	4	2.8	8.9	5.0	997.2
	NVI	560	5	4	555	8.9	2	1	3	1	5.4	12.5	7.2	994.6
	SVI	3148	12	12	3136	3.8	4	4	8	4	2.6	5.1	3.8	997.4
Total		5505	29	25	5476	5.3	10	6	16	9	2.9	7.1	4.5	997.1
BCUNS	PEC	47	0	1	47	0.0	0	1	1	0	21.3	0.0	21.3	978.7
NONRE	S	133	3	0	130	22.6	0	0	0	0	0.0	22.6	0.0	1000.0
Total		39378	203	132	39175	5.2	72	21	93	39	2.4	7.0	3.4	997.6

Health Auth	ority (HA)			
FHA	Fraser HA			
IHA	Interior HA			
NHA	Northern HA			
VCHA	Vancouver Coastal HA			
VIHA	VIHA Vancouver Island HA			
PHSA	Provincial Health Services			
	Authority			
BCUNSPEC	BC residents with unknown			
	postal code			
NONRES	Non Resident of BC			

Health S	Service Delivery Area
(HSDA)	-
FE	Fraser East
FN	Fraser North
FS	Fraser South
EK	East Kootenay
KB	Kootenay Boundary
OK	Okanagan
TC	Thompson Cariboo Shuswap
NE	Northeast
NI	Northern Interior
NW	Northwest
NSCG	Northshore/Coast Garibaldi
RICH	Richmond
VANC	Vancouver
CVI	Central Vancouver Island
NVI	Northern Vancouver Island
SVI	Southern Vancouver Island

Death information supplemented from the BC Vital Statistics Agency

Stillbirth Rate = (Total Stillbirths/Total Births) x 1000

Neonatal Mortality Rate = (Total Neonatal Deaths/Live Births) x 1000

Perinatal Mortality Rate = ((Total Stillbirths + Total Early Neonatal Deaths)/Total Births) x 1000 Infant Death Rate = ((Total Neonatal Deaths + Post Neonatal Deaths)/Total Live Births) x 1000 **Neonatal Survival Rate** = ((Total Live Births - Total Neonatal Deaths)/Total Births) x 1000

Note: Late Terminations are excluded

END	Early Neonatal Deaths (< 7 days)
LND	Late Neonatal Deaths (7-27 days)
TND	Total Neonatal Deaths (<28 days)
PND	Post Neonatal Deaths (28-364 days)
NMR	Neonatal Mortality Rate
PMR	Perinatal Mortality Rate
IDR	Infant Death Rate
NSR	Neonatal Survival Rate

Neonatal/Perinatal/Infant Mortality Rates by Maternal Age, 2000/2001

(Refer to Data Table 14)

There are many variables that affect the outcome of a pregnancy, some of which involve a greater degree of risk for the woman and/or her infant. Maternal age less than 20 years and greater than 34 years is considered to carry an increased risk for the pregnancy (Leyland & Boddy, 1990). However, the rate of births to older mothers (greater than 35 years of age) has shown a steady increase in Canada over the past 20 years due to the well-documented shift in women delaying childbirth to later years or taking advantage of reproductive technologies to achieve pregnancy later in life.

Mortality data are provincial and based on singleton pregnancies, deliveries and births. It is also important to note that late terminations have not been included in the data, therefore this will underestimate the actual stillbirth rate.

The stillbirth rate by maternal age represents a modified bell curve. The highest rates are found among the youngest and oldest age groupings for maternal age. Again, these findings are not unexpected, as it is known that the greatest complications are often associated with very young and older maternal ages. The highest stillbirth rate was 71.4 per 1,000 births and was found among the maternal age group less than 15. However, the low number of births in this category overall leads to variability that has no real meaning. The rate declined to 4.6 per 1,000 births for two age groups: 20 - 24 and 25 - 29. The rate started to increase with the next age groupings and then reached a high of 9.5 per 1,000 births for the 40 - 44 age group.

The neonatal, perinatal and infant death rates had no consistent relationship across age groups. The overall neonatal mortality rate was 2.4 per 1,000 births, the infant death rate was 3.4 per 1,000 births and the perinatal mortality rate was 7.0 per 1,000 births. Notably the perinatal mortality rate for the 40 - 44 age group, which was 12.1 per 1,000 births, was much higher than the other age groups, which ranged from 6.4 per 1,000 births (25 - 29 age group) to 7.2 per 1,000 births (20 - 24 age group).

Table 14

Neonatal/Perinatal/Infant Mortality by Maternal Age, 2000/2001

					2000)/2001							
Age	Total Birth	Total Still Birth	Tota Deatl		Still Birth Rate	END	LND	TND	PND	NMR	PMR	IDR	NSR
<15	14	1	0	13	71.4	0	0	0	0	0.0	0.0	0.0	1000.0
15-19	1808	9	7	1799	5.0	3	0	3	4	1.7	6.6	3.9	998.3
20-24	6269	29	31	6240	4.6	16	3	19	12	3.0	7.2	5.0	997.0
25-29	11545	53	39	11492	4.6	21	5	26	13	2.3	6.4	3.4	997.7
30-34	12199	63	34	12136	5.2	21	7	28	6	2.3	6.9	2.8	997.7
35-39	6351	37	17	6314	5.8	8	5	13	4	2.1	7.1	2.7	997.9
40-44	1154	11	4	1143	9.5	3	1	4	0	3.5	12.1	3.5	996.5
45-49	37	0	0	37	0.0	0	0	0	0	0.0	0.0	0.0	1000.0
>=50	1	0	0	1	0.0	0	0	0	0	0.0	0.0	0.0	1000.0
Total	39378	203	132	39175	5.2	72	21	93	39	2.4	7.0	3.4	997.6

Death information supplemented from the BC Vital Statistics Agency

Stillbirth Rate = (Total Stillbirths/Total Births) x 1000

Neonatal Mortality Rate = (Total Neonatal Deaths/Live Births) x 1000

Perinatal Mortality Rate = ((Total Stillbirths + Total Early Neonatal Deaths)/Total Births) x 1000

Infant Death Rate = ((Total Neonatal Deaths + Post Neonatal Deaths)/Total Live Births) x 1000

Neonatal Survival Rate = ((Total Live Births - Total Neonatal Deaths)/Total Births) x 1000

Note: Late Terminations are excluded

END	Early Neonatal Deaths (< 7 days)
LND	Late Neonatal Deaths (7-27 days)
TND	Total Neonatal Deaths (<28 days)
PND	Post Neonatal Deaths (28-364 days)
NMR	Neonatal Mortality Rate
PMR	Perinatal Mortality Rate
IDR	Infant Death Rate
NSR	Neonatal Survival Rate

Neonatal/Perinatal/Infant Mortality Rates by Birth Weight, 2000/2001

(Refer to Data Table 15)

Preterm birth is an important determinant of perinatal mortality and survival rates show a positive correlation with fetal growth. The provincially defined limit on viability is a birth weight of 500 grams, (BC Vital Statistics Agency, 2002) but advances in obstetrics and neonatal care have led to the survival of some extremely immature low birth-weight infants. It is not unexpected to find the highest mortality rates are associated with infants in the lowest weight category (<500 grams).

Across Canada, the perinatal death rates are highest in the Yukon and the North West Territories, with BC in a comparable rate to Nova Scotia. The neonatal death rate is lowest in Prince Edward Island, with BC and Alberta recording the second lowest rates. Infant death rates in BC are again comparable with Alberta, second only to Nova Scotia and Newfoundland (CPHR, 2000).

Analysis is at the provincial level and is based on singleton pregnancies, deliveries and births. It is also important to note that late terminations have not been included in the data. Data analysis has not been completed for the unknown birth weight category.

The highest stillbirth rate (637.9 per 1,000 births) was found among the lowest birth weight group (<500 grams). The stillbirth rate declined with each successive weight group to a low of 0.8 per 1,000 births for the 3,500 - 4,499 gram group, which is considered normal birth weight.

The pattern for the neonatal, perinatal and infant death rates in BC in 2000/2001 is similar to Canadian statistics. The rates show a continuous decline from the lowest birth weight group to the highest birth weight group.

Table 15

Neonatal/Perinatal/Infant Mortality by Birth Weight, 2000/2001

					2000	/2001							
Birth Weight	Total Birth	Total Still Birth	Total Death	Total Live Birth	Still Birth Rate	END	LND	TND	PND	NMR	PMR	IDR	NSR
<500	58	37	20	21	637.9	20	0	20	0	952.4	982.8	952.4	47.6
500-999	114	34	32	80	298.2	24	5	29	3	362.5	508.8	400.0	637.5
1000-1499	136	17	8	119	125.0	6	1	7	1	58.8	169.1	67.2	941.2
1500-2499	1360	36	20	1324	26.5	7	6	13	7	9.8	31.6	15.1	990.2
2500-3499	18896	33	32	18863	1.7	8	5	13	19	0.7	2.2	1.7	999.3
3500-4499	17779	14	16	17765	8.0	3	4	7	9	0.4	1.0	0.9	999.6
>=4500	998	1	0	997	1.0	0	0	0	0	0.0	0.0	0.0	1000.0
Unknown	37	31	4	6	837.8	4	0	4	0	666.7	945.9	666.7	333.3
Total	39378	203	132	39175	5.2	72	21	93	39	2.4	7.0	3.4	997.6

Death information supplemented from the BC Vital Statistics Agency

Stillbirth Rate = (Total Stillbirths/Total Births) x 1000

Neonatal Mortality Rate = (Total Neonatal Deaths/Live Births) x 1000

Perinatal Mortality Rate = ((Total Stillbirths + Total Early Neonatal Deaths)/Total Births) x 1000

Infant Death Rate = ((Total Neonatal Deaths + Post Neonatal Deaths)/Total Live Births) x 1000

Neonatal Survival Rate = ((Total Live Births - Total Neonatal Deaths)/Total Births) x 1000

Note: Late Terminations are excluded

END	Early Neonatal Deaths (< 7 days)
LND	Late Neonatal Deaths (7-27 days)
TND	Total Neonatal Deaths (<28 days)
PND	Post Neonatal Deaths (28-364 days)
NMR	Neonatal Mortality Rate
PMR	Perinatal Mortality Rate
IDR	Infant Death Rate
NSR	Neonatal Survival Rate
IDR	Infant Death Rate

SECTION IV

IN FOCUS - INDUCTION OF LABOUR



SECTION IV

In Focus - Induction of Labour

Definition

Induction of labour is the artificial initiation of uterine contractions, resulting in the birth of the baby. It is indicated when the potential risks of continuing a pregnancy outweigh the benefits.

Indications

There are diverse indications leading to the decision to induce labour. Listed below are some indications for induction:

Post-term pregnancy Women with well-documented gestational age and uncomplicated pregnancies which have

progressed beyond 41 weeks

Women who have diabetes may be induced prior to the due date **Diabetes in pregnancy**

Pre-labour rupture of membranes Women with premature rupture of the membranes at term (≥ 37 wks)

Maternal condition Where the health status of the mother is of concern to the physician, e.g. pregnancy-induced

hypertension (PIH)

Fetal condition Where the health status of the fetus is of concern to the physician, e.g. macrosomia, intrauterine

fetal compromise, or lack of fetal growth

Maternal requests for induction prior to 41 weeks or other health care delivery reasons Logistics

Place of Induction

Depending on the reason for the decision to induce and the health of the mother and fetus, the place of induction can vary from the pre-delivery site to a high risk obstetric unit. This choice is dictated by the amount of monitoring and expertise required to manage the delivery and postpartum care.

Outcome of Induction

The outcomes of induction of labour are both maternal and fetal and can be classified as "good" and/or "poor" outcomes. For the mother, a good outcome would be a vaginal birth within a "normal" period of time. Poor outcomes would include the need for caesarean section or maternal morbidity such as postpartum haemorrhage or rupture of the uterus. For the fetus, a good outcome would be a healthy, normal baby. The adverse outcomes would include neonatal morbidity such as hypoxic ischemic encephalopathy and neurological compromise.

Data Limitations

Although one of the clinical indications for induction is multiple fetuses, the data in this section are reported only for singleton pregnancies, deliveries and births. In addition, the categories of "other" and "unknown" have been excluded from the statistics. This will lead to a potential under-reporting of inductions. However, this is considered to be of minimal impact, given the small number of inductions contained in these categories.

Background Information

Before reviewing the results from British Columbia, it is worth looking at the rates of induction from other jurisdictions across Canada and internationally in order to gain a perspective of induction practices against which to compare the BC results.

Overall, rates of induction in Canada and other countries with similar health care systems range, for the most part, between 15% and 25% (these rates have varied from year to year and from area to area). In Canada, for example, the rates vary from province to province, with a low of 10.4% in the Northwest Territories (in 1997) to a high of 22.1% in Alberta (Canadian Perinatal Health Report, 2000), although a report from Alberta tagged it as high as 27%. In the same year, the overall Canadian rate was 18.5% (ibid).

More recently, the United Kingdom statistics have shown a higher rate (Royal College of Obstetricians and Gynecologists, 2001). In 2001, the rate of induction in England was 21.5%, while, for the same year, the rate in Scotland was 27.3%, although both countries are part of the National Health Service (ibid). Highly populated areas of South England showed rates between 20% and 30% while North England reported more variability, with rates ranging between 9% and 30%. In addition to variations across geographic areas, there has also been noticeable variation over time. From the 1980s to the late 1990s, the rates in both Scotland and England dropped throughout the eighties and then slowly returned to the same rate in the 1990s and, in some cases, to even higher rates.

The reports do not allow for an examination of the reasons for the variations, hence it is not possible to tell if these variations are due to demographics, clinical practice or logistics. To be able to tease out the contributing factors would require a more detailed set of reports with linked data, not usually found in administrative databases.

ANALYSIS OF INDUCTION OF LABOUR IN BRITISH COLUMBIA, 2001/2002, 2000/2001 Total Inductions in BC 2001/2002, 2000/2001

The number of inductions of labour performed on singleton pregnancies throughout the province was 8,821 in 2001/2002 and 8,358 in the year 2000/2001. Total births were 39,236 and 39,378 respectively, leading to overall induction rates of 22.5% in 2001/2002 and 21.2% in 2000/2001, a slight but non-significant increase.

Breakdown by Health Authority

(Refer to Data Table 6 - Induction of Labour by Place of Delivery for Health Service Delivery Areas, Health Authorities and Province, 2001/2002, 2000/2001 on page 17).

Excluded from this specific analysis is the Provincial Health Service Authority (PHSA) and births classified as Home Births. The induction rates were relatively stable across the four health authorities. For the year 2001/2002, the three health authorities in the south of the province, Fraser, Interior and Vancouver Coastal recorded rates of 25.2%, 23.3% and 20.8% respectively, while the Northern HA recorded a rate of 20.4%. In 2000/2001, the rates were virtually unchanged at approximately 23% in the south and 18% in the north. The explanation of the slightly lower rate in the Northern HA could be that the resources needed to support an induction are not as readily available as in the more populous areas.

Breakdown by Individual Health Service Delivery Areas within the Health Authorities

Within the health authorities, there was some variation in induction rates that appeared to reflect the size of the populations within the areas. However, the differences were not large. As might be anticipated, the comparison between years did not show any marked change.

Indications for Induction by Parity

Table 16

Indications for Induction by Parity 2001/2002, 2000/2001

2001	/2002			
Indication	Parit	y >=1	Nulli	para
	#	%	#	%
Post Term Pregnancy	1589	38.4	1871	39.9
Premature ROM	640	15.5	1044	22.3
Maternal Condition	953	23.0	1068	22.8
Fetal Condition	342	8.2	372	7.9
Logistics	92	1.7	18	0.4
2000)/2001			
Indication	Parit	y >=1	Nulli	para
				•
maication	#	%	#	· %
Post Term Pregnancy	# 1468			-
		%	#	· %
Post Term Pregnancy	1468	% 37.6	# 1818	%
Post Term Pregnancy Premature ROM	1468 677	% 37.6 17.3	# 1818 996	% 40.8 22.3

Indications for Induction by Parity (Nullipara or Parity \geq 1)

The indications leading to induction are summarised (in Table 17) within the nullipara and parity ≥ 1 population. The percentages are the proportion of inductions which are attributable to each indication.

For 2001/2002, there were a total of 21,785 parity \geq 1women, 4,136 of which were induced. For 2001/2002, there were 17,451 nulliparous women with 4,685 inductions. For 2001/2002, there was a total of 21,772 parity ≥ 1 women who delivered and 3,905 of these women were induced. For 2000/2001, there were 17,606 nulliparous women and 4,453 inductions.

In 2001/2002, 18.9% of the parity ≥ 1 population was induced, compared to 26.8% of the nullipara. This was a small increase overall from 2000/2001, when 17.9% of the parity ≥ 1 population was induced, versus 25.3% of the nullipara. Of note is the larger rate of induction for nulliparous women, i.e. approximately 1 in 4 nulliparous pregnancies are being induced.

OUTCOMES OF INDUCTION OF LABOUR

One of the more significant outcomes of a failed induction is a C/section. The data in the following graphs have been stratified by indication for induction (vertical axis) against reason for proceeding to C/Section (horizontal axis). The indications leading to induction are further summarized within nullipara and parity ≥ 1 populations. It should be noted that some of these data predate the findings of Hannah et al (2000) in their report titled, Planned Caesarean Section vs. Planned Vaginal Birth for Breech Presentation at Term. Therefore, a number of inductions were performed on breech presentations of the fetus.

For nulliparous women who were induced and required a C/Section, the most prevalent indication for C/Section delivery was dystocia/ cephalopelvic disproportion (CPD) at 50.2% in 2001/2002, 51.9% in 2000/200 1, followed by fetal distress at 25.4% in 2001/2002 and 26.7% in 2001/2002.

Similarly, for parity ≥ 1 women who were induced and required a C/Section delivery, the most prevalent indication for C/Section was dystocia/CPD at 33.7% in 2001/2002, 33.3% in 2000/2001, followed by fetal distress at 27.3% in 2001/2002 and 31.0% in 2000/2001.

Perhaps the most striking variance can be noted in the percentages of induced nullipara who proceeded to C/Section, as compared with the parity ≥ 1 . In 2001/2002, 36.6% of induced nullipara went on to C/Section, versus 9.6% of parity ≥ 1 . In 2000/2001, the numbers were slightly lower for nullipara, at 34.3% versus a rate of 10.1% for parity ≥ 1 . In other words, induction is unsuccessful in more than one-third of nulliparous women in BC.

C/Section Deliveries by Indication for Induction (2001/2002, 2000/2001) Table 17

Outcomes of Induction by Parity, 2001/2002, 2000/2001

								2001/2002	2											
			Fet	Fetal Comp		Fetal Demise	Logistic	<u>.0</u>	Mat Condtn	ıdtn	Other	Ē	Post Term	erm	Prem	Premature ROM	Ś	UNKN	Total	<u>_</u>
Parity	Method of Delivery	Indication for C/Section	#	%	#	%	#	%	#	%	#	 %	#	%	#	%	#	%	#	%
Z	C/Section	Abruptio Placenta	ო	7.7	0	0.0		0.0	2	2.2	2	4.1	-	0.7	2	3.6	0	0.0	10	2.5
		Active Herpes	0		0	0.0		0.0	-	1.1	0	0.0	0	0.0	-	1.8	0	0.0	7	0.5
		Breech	-		-	50.0		0.0	က	3.4	2	4.1	80	5.4	2	3.6	0	0.0	17	4.3
		Dystocia / CPD	80	N	0	0.0	2 3	3.3		32.6	16	32.7	25	38.3	72	37.5	0	0.0	133	33.7
		Fetal Distress	20		0	0.0	ν-	16.7		25.8		12.2	4	29.5	13	23.2	-	20.0	108	27.3
		Malposition / Malpresentation	0		0	0.0		0.0		0.6		14.3	18	12.1	2	8.9	0	0.0	38	9.6
		Other	9	`	-	20.0	3	90.0		20.2		22.4	18	12.1	=	19.6	ო	0.09	71	18.0
		Placenta Previa	-		0	0.0	0	0.0		2.2	0	0.0	0	0.0	0	0.0	0	0.0	ო	8.0
		Repeat C/Section	0		0	0.0		0.0	က	3.4	2	10.2	3	2.0	0	0.0	_	20.0	12	3.0
		Unknown	0		0	0.0	0	0.0		0.0	0	0.0	0	0.0	-	1.8	0	0.0	-	0.3
	Total C/Section		89	100.0	7	100.0	6 10	100.0	89 10	100.0	1	100.0	149	100.0	26	100.0	co	100.0	395	100.0
Nullipara	noitoe))	Abrilatio Discents	c	c	c			0		- C	-	0	۰	~	-	%	c	c	α	7.
		Active Hernes	o c	0.0	0 0	0 0	o c	0.0	٠ -	2.0	- c	0:-0	1 ←		- c	0.0	o c	0.0	۰ ۵	5.0
		Breech	o c	9 6	o c	9 6			- დ	, t) -	5 6	- 5	- 4	, 5	0 6	o c	9 6	4 K	. .
		Dystocia / CPD	, «	24.5	o c	9 0			٧	47.4	- 46	7.7	405	52.7	2 8	, K	ט ער	100.0	23	20.05
		Fetal Distress	55	58.5	0	0.0	1 -			22.6	26	25.5	201	26.2	<u> </u>	18.3	0	0.0	435	25.4
		Malposition / Malpresentation	9	6.4	-	33.3	1 2	25.0		5.7	1 1	10.8	82	10.7	36	10.8	0	0.0	160	6.0
		Other	o 0	9.6	. 4	66.7	. 0	0.0	87 2	21.6	17	16.7	65	8.5	8 88	11.4	0	0.0	218	12.7
		Placenta Previa	_	7	0	0.0	0	0.0		0.0	0	0.0	0	0.0	0	0.0	0	0.0	-	0.1
		Unknown	. 0	0.0	0	0:0	0	0:0	0	0.0	· 0	0.0	· -	0.1	0	0.0	0	0:0		0.1
	Total C/Section		8	100.0	6	100.0	4					100.0	. 892	100.0	334	100.0	rc or	100.0	1713	100.0
								2000/2001	_											
			Fet	tal Comp	교 점	Fetal Demise	Logistic	<u>.0</u>	Mat Condtn	ıdtı	Other	Ŀ	Post Term	e.	Pren	Premature ROM	5	UNKN	Total	a
Parity	Method of Delivery	Indication for C/Section	#	%	#	%		%	#	%	#	%	#	%	#	%	#	%	#	%
۲ı	C/Section	Abruptio Placenta	0 0	0.0	0 0	0.0	0 0	0.0	4 ,	6. S	ი ი	7.1	0 0	1.2	0 0	0.0	0 0	0.0	თ 1	2.3
		Active Herpes	o (0.0	o (0.0		0.0		1.0		0.0	o (0.0	o (0:0	0 (0.0	- (e. 0
		Breecn Dystocia / CPD	o к	0.0	o 0	0.0	o 0	0.0	25	24.3	- 5	28.6	٥ ٥	3.6	2 2	35.4	o	33.3	131	33.3
		Fetal Distress	17	63.0) C	0 0	, -	50.0		29.1		26.2	45	27.3	. 4	3 6	1 0	33 6	122	31.0
		Malposition / Malpresentation	: 8	7.4	0	0.0	. 0	0.0		7.8	. 2	11.9	92	10.9	2	10.4	0	0.0	38	9.7
		Other	ო	11.1	0	0.0	1 5	50.0	.,	24.3	10	23.8	20	12.1	7	14.6	-	16.7	29	17.0
		Placenta Previa	0	0.0	0	0.0	0	0.0		0:0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
		Repeat C/Section	0	0.0	0	0.0	0	0.0	7	8.9	0	0.0	4	2.4	~	2.1	_	16.7	13	3.3
		Unknown	0	0.0	0	0.0	0			0.0		0.0	0	0.0	0	0.0	0	0.0	0	0.0
	Total C/Section		22	100.0	•	0.0	2 10	100.0	103 10	100.0	42	100.0	165	100.0	84	100.0	ه	100.0	393	100.0
Nullipara	C/Section	Abruptio Placenta	-	1.1	0	0.0	0	0.0		1.7	-	1.5	က	0.5	-	0.3	0	0.0	13	6.0
		Active Herpes	-	1.	0	0.0	0	0.0	2	0.5	0	0.0	0	0.0	0	0.0	0	0.0	က	0.2
		Breech	-	1.1	0	0.0	0	0.0		1.2	←	1.5	7	1.	2	0.7	0	0.0	16	1.0
		Dystocia / CPD	26	29.9	0	0.0	1 2	25.0		45.3	36	55.4	374	56.2	167	9'.29	ო	0.09	792	51.9
		Fetal Distress	51	58.6	0	0.0	0			27.7	6	13.8	172	25.9	09	20.7	7	40.0	407	26.7
		Malposition / Malpresentation	-	1.1	0	0.0	2 5	50.0		6.9	4	6.2	20	7.5	32	11.0	0	0.0	117	7.7
		Other	9	6.9	7	100.0	1	25.0	67	16.4	14	21.5	28	8.7	28	9.7	0	0.0	176	11.5
		Placenta Previa	0 0	0.0	0 0	0.0	0 0	0.0		0.2	0 0	0.0	- 0	0.2	0 0	0:0	0 0	0.0	0 0	0.1
		Unknown	3 0	0.0	. ا	0.0	٠ ٩			0:0		0.0	٥	0.0		0.0	۰ ا	0.0		0.0
	lotal c/section		•	200	1		-	l	ı		ı		8		720	9.00.0	,	0.00	250	2

C/Section Deliveries by Indication for Induction (2001/2002, 2000/2001) - Nullipara

Figure 13

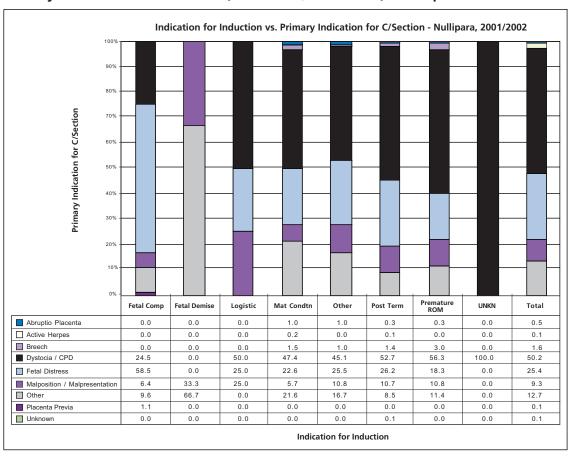
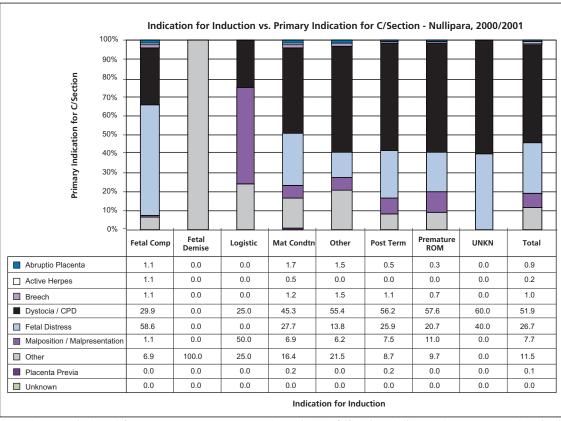


Figure 14



For nulliparous women who were induced for post-term pregnancy and required a C/Section delivery, the most prevalent indication for C/Section was dystocia/CPD (2001/2002: 52.7%, 2000/2001: 56.2%) followed by fetal distress (2001/2002: 26.2%, 2000/2001: 25.9%).

C/Section Deliveries by Indication for Induction (2001/2002, 2000/2001) – Parity ≥ 1

Figure 15

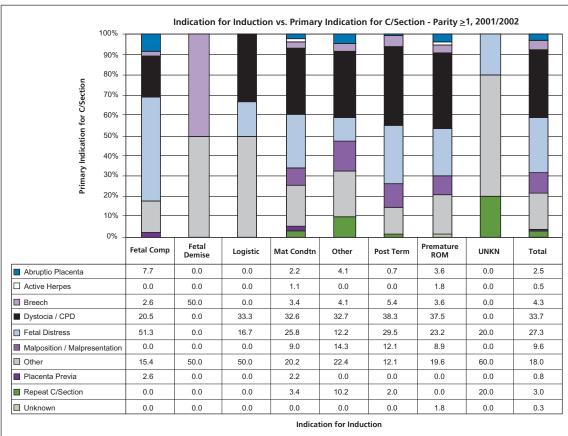
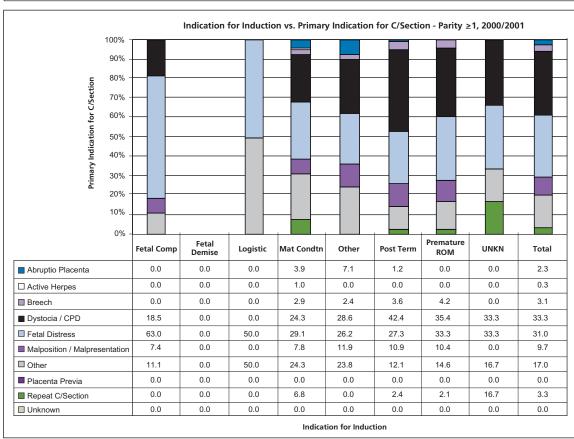


Figure 16



For parity \geq 1 women who were induced for post-term pregnancy and required a C/Section delivery, the most prevalent indication for C/Section was dystocia/CPD (2001/2002: 33.7%, 2000/2001: 33.3%) followed by fetal distress (2001/2002: 27.3%, 2000/2001: 31.0%).

SECTION V

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APPENDIX 1 DEFINITIONS AND NOTES ON INDICATORS

Age

Age on date of event/age at last birth date preceding the event.

Antepartum

Before the onset of labour.

BC Unspecified (Place of Residence)

The postal code is unknown but it is known that the person is a resident of BC.

Birth weight

First weight of the fetus or newborn obtained after birth, expressed in grams. Low birth weight (LBW) birth weight is less than 2,500 grams. Very low birth weight (VLBW) - birth weight is less than 1,500 grams. (Excludes newborns with weight between 0 - 300 grams).

Breastfeeding at Discharge

Indicates the mother is breastfeeding the baby at discharge (includes expressed milk). If mom is breast and bottle-feeding (mixed feeding) at discharge it is reported as breastfeeding.

Care Provider for Delivery

Person who provides the actual, hands-on care for the delivery of the baby. The categories are: OB/GYN – includes obstetricians (or fellow) and obstetrical residents; Family physician - includes general practitioners, medical student intern (MSI) and family practice residents; Midwife - includes registered midwife and midwife trainee; Surgeon/other - includes surgeons, family members, ambulance attendants; Nurse/No Attendant/Unknown - includes nurse or if the patient delivers by herself and no one is in attendance; or Unknown – indicates there was no documentation.

Count of cases

The most basic measure is a simple count of cases or conditions of interest and is often expressed as a variable. Such figures are important for strategic planning in health care systems, especially in terms of resource allocation. Counts of cases provide an idea of the number of people who will require a specific treatment, intervention or service. The definition of a variable is any attribute, phenomenon or event that can have different values but is expressed as a single data element:

- Yes, no, not applicable
- A number, e.g. age

Caesarean Section (C/Section) Method of Delivery

A delivery involving the surgical incision of the abdomen and uterine walls.

Electronic Fetal Monitoring (EFM)

Mother received external or internal electronic fetal heart monitoring during 1st or 2nd stage of labour. May include patients with electronic fetal monitoring during latent phase of labour. Mothers that did not go into labour are classified as "Not Applicable".

Episiotomy

A surgical incision into the perineum and vagina at the time of birth. If it is unknown if mother received an episiotomy, this case would be included in the category "No".

Fertility Rate

The number of live births occurring in a given time period divided by the number of women of child bearing age for Residents of a geographic area. BC rates are per 1,000 women aged 15 to 44.

Frequency

Number of events or cases in a category.

Health Authority (HA)/Health Service Delivery Areas (HSDA) – Delivery

Refers to the Health Authority or Health Service Delivery Area in which the patient delivered. The BC Ministry of Health has defined six macro level administrative boundaries called health authorities, which govern the manner in which health care services are delivered within the province of BC. Health Authorities are further divided into sixteen Health Service Delivery areas. HSDAs are micro level geographic boundaries. There may be more than one institution in a HA or HSDA.

Health Authority (HA)/ Health Service Delivery Areas (HSDA) – Residence

Refers to the Health Authority or Health Service Delivery Area in which the patient resided at the time of delivery. Statistics relating to the client's residence are determined via the Translation Master File (TMF). The TMF file is a comprehensive demographic mapping file, which consists of valid BC postal codes and their associated Health Service Delivery Areas (HSDA) and Health Authorities (HA). The geographic area to which a postal code belongs seldom changes over time but in cases where the postal code has changed, appropriate amendments have been made to reflect that postal code's associated HSDA for that particular year.

Home Birth

Birth that occurred at home and mother was not admitted to an inpatient facility within 24 hours of the birth. The primary care provider was a BC registered midwife.

Induction of Labour

Patient who received instrumental or pharmacological assistance to promote labour, prior to the onset of first stage of labour. A patient may be induced by any of the following methods: Artificial Rupture of Membranes (ARM), Oxytocin, Prostaglandin or other methodology. A failed medical induction is classified as an induction. Induction is categorized as "unknown" if it is unknown how the patient's labour was initiated.

Intrapartum (IP)

The period between the onset of the first stage of labour and the delivery of the placenta.

Live Birth

The complete expulsion or extraction from the mother, irrespective of the duration of the pregnancy, of a fetus in which there is breathing, beating of the heart, pulsation of the umbilical cord or unmistakable movement of voluntary muscle, whether or not the umbilical cord has been cut or the placenta is attached.

Maternal Smoking

There is documentation that the patient smoked during the current pregnancy. If a patient smoked at any time during pregnancy, even if she quit during the pregnancy, she is categorized as a smoker in the current pregnancy.

Multiple Birth

Birth in which more than one infant is born, including live births and stillbirths.

Multiple Pregnancy

A pregnancy with more than one fetus.

Non-resident

The woman delivers in British Columbia but is not a resident of British Columbia. She may be from out of province or out of country.

Nullipara

A woman who has never produced a viable offspring (500 grams birth weight or 20 weeks gestation).

The condition of having carried a previous pregnancy to a point of viability (500 grams birth weight or 20 weeks gestation) regardless of outcome.

Postpartum LOS - Vaginal/ Caesarean Section

Length of hospital stay calculated from delivery date/time to discharge date/time of mother, stratified into vaginal and caesarean births. This category excludes those who delivered at home with a Registered Midwife in attendance.

Proportion

A proportion is a measure of the number of persons having a specific condition or intervention at a designated time. It is defined as the number of existing cases divided by total population from which those arose. It is reported as a percent, for example, the percent of women giving birth in a specific health region, of all women in the region.

Rate

"A rate is a measure of the frequency of occurrence of a phenomenon. In epidemiology, demography and vital statistics, a rate is an expression of the frequency with which an event occurs in a defined population; the use of rates rather than raw numbers is essential for comparison of experience between populations at different times, different places or among different classes of persons. The components of a rate are the numerator, the denominator, the specified time in which events occur and usually a multiplier, a power of 10, which converts the rate from an awkward fraction to a decimal or whole number".

(A Dictionary of Epidemiology, 3rd Edition. John M. Last, Oxford University Press, 1995)

References and Appendices

Early Neonatal Mortality Rate

May be expressed mathematically as the formula:

Number of deaths among infants less than 7 days during a given period x 1000

Total live births during that period

Infant Mortality Rate

May be expressed mathematically as the formula:

Number of deaths among infants under 1 year during a given period x 1000

Total live births during that period

Late Neonatal Mortality Rate

May be expressed mathematically as the formula:

Number of deaths among infants between 7-27 days during a given period x 1000

Total live births during that period

Neonatal Mortality Rate

May be expressed mathematically as the formula:

Number of deaths among infants less than 28 days during a given period x 1000

Total live births during that period

Neonatal Survival Rate

May be expressed mathematically as the formula:

Number of total live births - total neonatal deaths x 1000

Total births during that period

Perinatal Mortality Rate

May be expressed mathematically as the formula:

Total stillbirths + total early neonatal deaths during a given period x 1000

Total births during that period

Post Neonatal Mortality Rate

May be expressed mathematically as the formula:

Number of deaths among infants between 28 days to 1 year during a given period x 1000

Total live births during that period

Stillbirth Rate

May be expressed mathematically as the formula:

Number of stillbirths during a given period x 1000

Total births during that period

Stillbirth

The complete expulsion or extraction from the maternal body after at least 20 weeks of gestation or after attaining a weight of at least 500 grams of a fetus in which at birth, there is no breathing, beating heart, pulsation of the umbilical cord or unmistakable movement of voluntary muscle.

Total Births

All live births and stillbirths in the province of British Columbia for the given year.

Vaginal Method of Delivery

The complete separation of an infant from the maternal body via the vaginal canal.

APPENDIX 2 BRITISH COLUMBIA PERINATAL DATABASE - INFORMATION RESOURCES

There are multiple reports available and methods to obtain BCPDR data in order to conduct analysis on perinatal processes and outcomes in British Columbia:

- Hospital Reports these are hospital-specific, pre-programmed reports, which can be run at all locations where the data base is installed. Other participating sites, where the database is not installed, may obtain their specific hospital reports from the BCPDR central office.
- Ad hoc Reports the database allows for user-defined queries to be run in order to answer specific requests. Queries can be developed and run at the hospital installation sites or at the Provincial Registry.
- BC Facility Comparison Reports these reports are created annually and allow the individual facility to compare and bench mark selected maternal and newborn events and outcomes with provincial and similarly sized sites.
- Perinatal Database Reporting Tool In 2002 the Perinatal Reporting Tool (PRT) was released by the BCRCP. The Perinatal Reporting Tool is an interactive CD, which has been designed to allow health care providers, administrators and data analysts access to summarized data sets extracted from the BC Perinatal Database Registry. The PRT allows for population based and comparative reporting between institutions, Health Authorities and against provincial totals for some of the most common and/or important practices and health outcomes related to perinatal care. The PRT is a user-friendly tool and permits users to conduct their own analytical requests. A second version of the Perinatal Reporting Tool, with enhanced functionality and updated data sets, was released in September 2003.
- Specific Requests for Data Clients, health care professionals, researchers etc. may request specific data via the web at .. See Appendix 7, page 59.

APPENDIX 3 HEALTH AUTHORITIES, HEALTH SERVICE DELIVERY AREAS AND INSTITUTIONS

Health Authority	Health Services Delivery Area	Institution Name
Fraser	Fraser East	Chilliwack General Hospital Fraser Canyon Hospital Matsqui-Sumas-Abbotsford General Hospital Mission Memorial Hospital
	Fraser North	Burnaby Hospital Eagle Ridge Hospital Ridge Meadows Hospital & Health Care Centre Royal Columbian Hospital
	South Fraser	Delta Hospital Langley Memorial Hospital Peace Arch District Hospital Surrey Memorial Hospital
Interior	East Kootenay	Creston Valley Hospital East Kootenay Regional Hospital (Cranbrook Regional Hospital) Fernie District Hospital Golden and District General Hospital Invermere and District Hospital Kimberley and District Hospital Sparwood General Hospital
	Kootenay Boundary	Arrow Lakes Hospital Boundary Hospital Castlegar and District Hospital Kootenay Boundary Regional Hospital (Trail Regional Hospital) Kootenay Lake District Hospital Slocan Community Hospital and Health Care Centre Victorian Hospital Of Kaslo
	Okanagan	Kelowna General Hospital Penticton Regional Hospital Princeton General Hospital South Okanagan General Hospital Summerland Hospital Vernon Jubilee Hospital
	Thompson Cariboo Shuswap	100 Mile General District Hospital Ashcroft and District General Hospital Cariboo Memorial Hospital Dr. Helmcken Memorial Hospital Lillooet District Hospital Nicola Valley General Hospital Queen Victoria Hospital Royal Inland Hospital Shuswap Lake General Hospital St. Bartholomew's Hospital

Health Authority	Health Services Delivery Area	Institution Name				
Northern Health	Northeast	Chetwynd General Hospital Dawson Creek and District Hospital Fort Nelson General Hospital Fort St. John General Hospital				
	Northern Interior	G.R. Baker Memorial Hospital Lakes District Hospital And Health Centre MacKenzie and District Hospital McBride and District Hospital Prince George Regional Hospital St. John Hospital Stuart Lake Hospital				
	Northwest	Bulkley Valley District Hospital Kitimat General Hospital Mills Memorial Hospital Prince Rupert Regional Hospital Queen Charlotte Islands General Hospital Stewart General Hospital Wrinch Memorial Hospital				
Vancouver Coastal	North Shore/Coast Garibaldi	Bella Coola General Hospital Lions Gate Hospital Powell River General Hospital R.W. Large Memorial Hospital Squamish General Hospital St. Mary's Hospital				
	Richmond	Richmond Health Services				
	Vancouver	St. Paul's Hospital Vancouver General Hospital				
Vancouver Island	Central Vancouver Island	Ladysmith and District General Hospital Nanaimo Regional General Hospital St. Joseph's General Hospital Tofino General Hospital West Coast General Hospital				
	North Vancouver Island	Campbell River and District General Hospital Port Hardy Hospital Port McNeil and District Hospital Cormorant Island Health Centre (St. George's Hospital)				
	South Vancouver Island	Cowichan District Hospital Lady Minto Gulf Islands Hospital Saanich Peninsula Hospital Victoria General Hospital				
PHSA		Children's and Women's Health Centre of BC				

APPENDIX 4

TRENDS OF TOTAL FERTILITY RATES BRITISH COLUMBIA, 1950 - 2002

	Total			Total		
	Fertility			Fertility		
Year	Rate	Live Births	Year	Rate	Live Births	
1950	3,074	27,116	1977	1,636	36,691	
1951	3,201	28,077	1978	1,620	37,231	
1952	3,327	29,827	1979	1,721	38,432	
1953	3,542	31,746	1980	1,716	40,104	
1954	3,656	32,946	1981	1,718	41,679	
1955	3,748	34,138	1982	1,749	42,942	
1956	3,875	36,241	1983	1,751	43,047	
1957	3,921	38,744	1984	1,781	44,040	
1958	3,900	39,577	1985	1,642	42,989	
1959	3,958	39,971	1986	1,602	41,845	
1960	3,949	40,116	1987	1,598	41,655	
1961	3,785	38,591	1988	1,636	42,913	
1962	3,709	38,128	1989	1,638	43,585	
1963	3,564	37,478	1990	1,673	45,333	
1964	3,284	35,897	1991	1,653	45,308	
1965	2,710	33,669	1992	1,642	46,048	
1966	2,442	32,502	1993	1,636	45,931	
1967	2,307	32,899	1994	1,638	46,850	
1968	2,228	33,687	1995	1,604	46,702	
1969	2,223	35,383	1996	1,540	45,955	
1970	2,185	36,861	1997	1,472	44,399	
1971	1,994	34,852	1998	1,436	42,863	
1972	1,890	34,563	1999	1,408	41,746	
1973	1,751	34,352	2000	1,374	40,491	
1974	1,735	35,450	2001	1,371	40,392	
1975	1,682	36,281	2002	1,353	39,893	
1976	1,618	35,848	!	1		

Note: Total Fertility Rate - Sum of age-specific fertility rates multiplied by the number of years in each age group (see glossary for definition). Rates per 1,000 women age 15 to 44.

Non-residents are excluded.

Source: BC Vital Statistics Agency

LIVE BIRTHS, DEATHS, MARRIAGES AND STILLBIRTHS BRITISH COLUMBIA, 1950 - 2002

	BRITISH COLUMBIA, 1950 - 2002								
Year	Mid-Year	Live Bi	rths	Deaths		Marriages		Stillbirths	
1001	Population	Number	Rate	Number	Rate	Number	Rate	Number	Rate
1950	1,137,000	27,116	23.8	11,581	10.2	11,110	9.8	369	13.4
1951	1,165,210	28,077	24.1	11,638	10.0	11,272	9.7	365	12.8
1952	1,205,000	29,827	24.8	12,080	10.0	11,081	9.2	375	12.4
1953	1,248,000	31,746	25.4	12,218	9.8	11,298	9.1	375	11.7
1954	1,295,000	32,946	25.4	12,414	9.6	10,991	8.5	373	11.2
1955	1,342,000	34,138	25.4	12,816	9.5	11,011	8.2	381	11.0
1956	1,398,464	36,241	25.9	13,415	9.6	11,950	8.5	413	11.3
1957	1,482,000	38,744	26.1	13,711	9.3	12,620	8.5	422	10.8
1958	1,538,000	39,577	25.7	13,741	8.9	12,094	7.9	414	10.4
1959	1,567,000	39,971	25.5	14,336	9.1	11,910	7.6	404	10.0
1960	1,602,000	40,116	25.0	14,696	9.2	11,203	7.0	437	10.8
1961	1,629,100	38,591	23.7	14,403	8.8	10,935	6.7	410	10.5
1962	1,660,000	38,128	23.0	14,912	9.0	11,196	6.7	377	9.8
1963	1,699,000	37,478	22.1	15,029	8.8	11,677	6.9	476	12.5
1964	1,745,000	35,897	20.6	16,051	9.2	12,158	7.0	485	13.3
1965	1,797,000	33,669	18.7	15,784	8.8	13,639	7.6	447	13.1
1966	1,873,674	32,502	17.3	16,290	8.7	14,682	7.8	409	12.4
1967	1,945,000	32,899	16.9	16,170	8.3	16,026	8.2	422	12.7
1968	2,003,000	33,687	16.8	16,828	8.4	16,914	8.4	433	12.7
1969	2,060,000	35,383	17.2	17,377	8.4	18,284	8.9	468	13.1
1970	2,128,000	36,861	17.3	17,020	8.0	20,020	9.4	407	10.9
1971	2,184,620	34,852	16.0	17,783	8.1	20,389	9.3	442	12.5
1972	2,241,400	34,563	15.4	18,021	8.0	20,659	9.2	356	10.2
1973	2,302,400	34,352	14.9	18,095	7.9	21,303	9.3	339	9.8
1974	2,375,700	35,450	14.9	19,177	8.1	21,734	9.1	364	10.2
1975	2,433,200	36,281	14.9	19,151	7.9	21,824	9.0	414	11.3
1976	2,466,610	35,848	14.5	18,788	7.6	21,536	8.7	361	10.0
1977	2,493,800	36,691	14.7	18,021	7.2	21,156	8.5	330	8.9
1978	2,530,100	37,231	14.7	19,057	7.5	21,388	8.5	331	8.8
1979	2,571,200	38,432	14.9	19,204	7.5	22,087	8.6	313	8.1
1980	2,640,100	40,104	15.2	19,371	7.3	23,830	9.0	316	7.8
1981	2,744,470	41,679	15.2	19,857	7.2	24,694	9.0	371	8.8
1982	2,787,700	42,942	15.4	20,704	7.4	23,831	8.5	317	7.3
1983	2,813,800	43,047	15.3	19,895	7.1	23,692	8.4	310	7.1
1984	2,847,700	44,040	15.5	20,781	7.3	23,394	8.2	303	6.8
1985	2,990,000	42,989	14.4	21,131	7.1	22,270	7.4	333	7.7
1986	3,020,400	41,845	13.9	21,006	7.0	21,819	7.2	309	7.3
1987	3,064,600	41,655	13.6	21,619	7.1	23,377	7.6	297	7.1
1988	3,128,200	42,913	13.7	22,361	7.1	24,469	7.8	292	6.8
1989	3,209,200	43,585	13.6	22,780	7.1	25,154	7.8	319	7.3
1990	3,300,100	45,333	13.7	23,398	7.1	25,185	7.6	292	6.4
1991	3,379,800	45,308	13.4	23,794	7.0	23,648	7.0	306	6.7
1992	3,476,868	46,048	13.2	24,445	7.0	23,756	6.8	301	6.5
1993	3,571,524	45,931	12.9	25,601	7.2	23,473	6.6	286	6.2
1994	3,681,750	46,850	12.7	25,824	7.0	23,763	6.5	312	6.6
1995	3,784,008	46,702	12.3	26,221	6.9	23,629	6.2	350	7.4
1996	3,882,043	45,955	11.8	27,388	7.1	22,882	5.9	292	6.3
1997	3,959,698	44,399	11.2	27,260	6.9	21,881	5.5	335	7.5
1998	3,997,087	42,865	10.7	27,806	7.0	21,771	5.5	278	6.4
1999	4,028,072	41,743	10.4	27,859	6.9	21,625	5.4	294	7.0
2000	4,058,833	40,494	10.0	27,300	6.7	22,094	5.4	281	6.9
2001	4,095,934	40,376	9.9	28,164	6.9	20,554	5.0	281	6.9
2002	4,141,272	39,893	9.6	28,686	6.9	21,245	5.1	296	7.4
	, .,	,		1 -,,,,,,		ı ,			

Note: Rates for live births, deaths and marriages are crude rates per 1,000 population.

> Stillbirth rates are per 1,000 total births (live births + stillbirths).

The definition of a stillbirth was revised in 1963 and

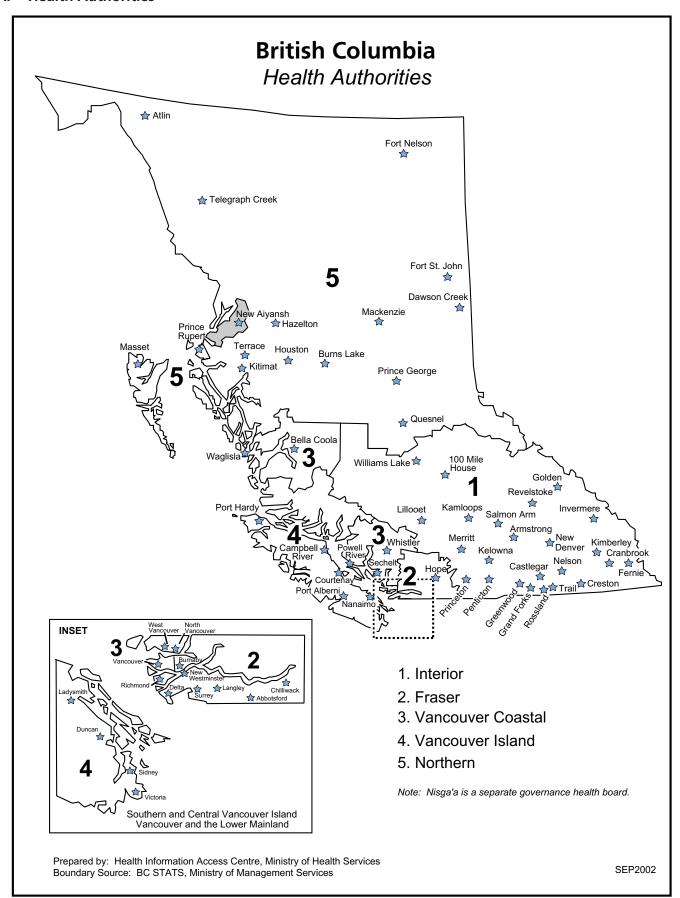
Population information from BC STATS. Ministry of Management Services.

Information includes late registrations and amendments.

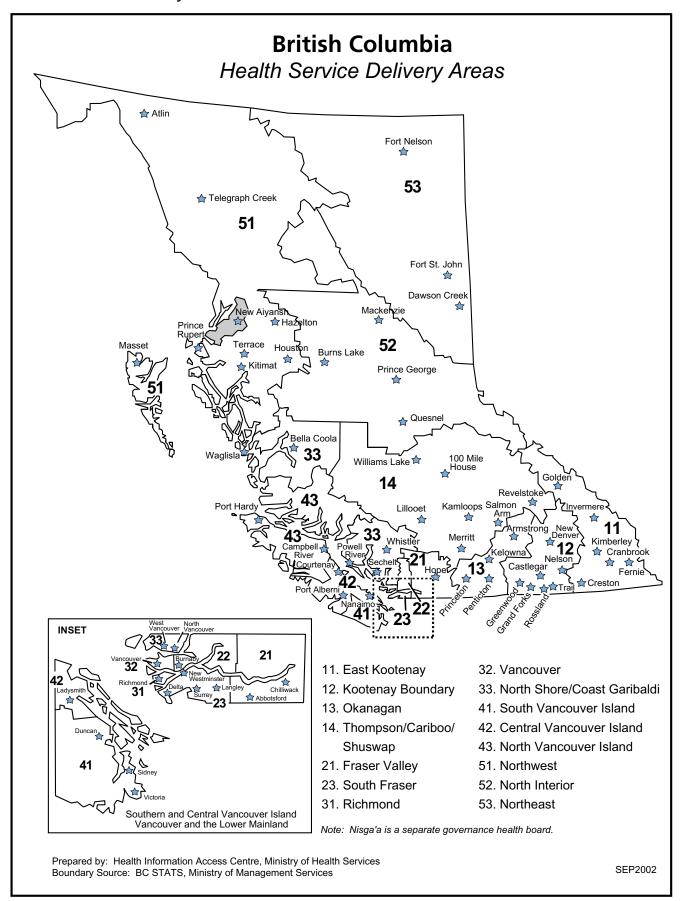
Gender unknown included. Non-residents are excluded from all data except marriages.

Source: BC Vital Statistics Agency Annual Report 2002

APPENDIX 5 MAP - Health Authorities



MAP - Health Service Delivery Areas



APPENDIX 6

OTHER RELEVANT SOURCES OF INFORMATION

Below is a list of web sites where you can search for other relevant information on perinatal health information and statistics at the provincial, national and at the international level.

Provincial

BC Ministry of Health Services: http://www.hlth.gov.bc.ca

Niday Perinatal Database (Eastern Ontario): http://www.pppeso.on.ca

The Northern & Central Alberta Perinatal Outreach Program: http://www.ncapop.ca

PEI Reproductive Care Perinatal Database Report: http://www.gov.pe.ca

Reproductive Care Program of Nova Scotia: http://rcp.nshealth.ca

National

Canadian Institute for Health Information: http://www.cihi.ca

Canadian Institute of Child Health: http://www.cich.ca

Health Canada: http://www.hc-sc.gc.ca

Statistics Canada: http://www.statcan.gc.ca

Vital Statistics (Can): http://www.statcan.ca

International

Centers for Disease Control and Promotion (CDC): http://www.cdc.gov

Medline Plus – Health Information: http://www.nlm.nih.gov/medlineplus/healthstatistics.html

National Institute of Child Health & Human Development (US): http://www.nichd.nih.gov

National Perinatal Association (US): http://www.nationalperinatal.org

National Perinatal Epidemiology Unit (NPEU): http://www.npeu.ox.ac.uk

Statistical Resources on Women and Gender: http://www.library.wisc.edu/libraries

Vermont Oxford Network: http://www.vtoxford.org

World Health Organization (WHO): http://www.who.int

APPENDIX 7

BRITISH COLUMBIA PERINATAL DATABASE REGISTRY INFORMATION REQUEST FORM

PDR Request # _____

Requester Information						
Name: Title:						
Organization:						
Address:						
	ax:					
Email Address: Sig	gnature:					
Data Request						
Purpose: (Briefly describe the purpose for which data are being requested)						
Data elements required: (list of fields or queries)						
Date range required: (or) From: To:						
Frequency of data request:						
☐ One time only ☐ Annually	☐ Other:					
Date required by:						
Special Instructions:						