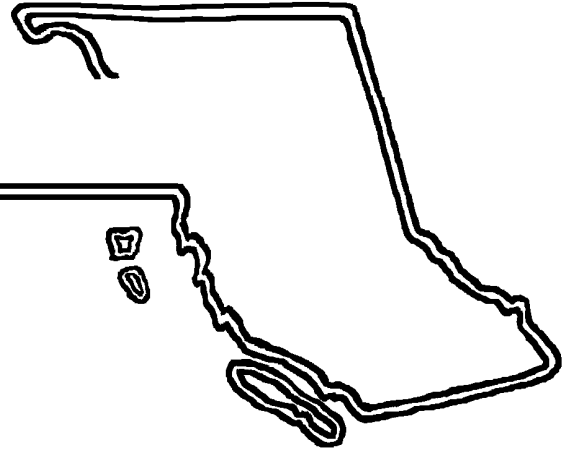


INVENTORY 99



A REGIONAL ANALYSIS OF HEALTH PERSONNEL IN THE PROVINCE OF BRITISH COLUMBIA

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HEALTH HUMAN RESOURCES UNIT

The Health Human Resources Unit (HHRU) was established as a demonstration project by the British Columbia Ministry of Health in 1973. Since that time, the Unit has continued to be funded on an ongoing basis (subject to annual review) as part of the Centre for Health Services and Policy Research. The Unit undertakes a series of research studies that are relevant to health human resources management and to public policy decisions.

The HHRU's research agenda is determined through discussions of key current issues and available resources with the senior staff of the Ministry of Health. Various health care provider groups participate indirectly, through on-going formal and informal communications with Ministry of Health officials and with HHRU researchers. Arminée Kazanjian is the Associate Director and Principal Investigator for the Unit.

Three types of research are included in the Unit's research agenda. In conjunction with professional licensing bodies or associations, the HHRU maintains the Cooperative Health Human Resources Database. The Unit uses these data to produce regular status reports that provide a basis for in-depth studies and for health human resources planning. The Unit undertakes more detailed analyses bearing on particular health human resources policy issues and assesses the impact of specific policy measures, using secondary analyses of data from the Cooperative Database, data from the administrative databases maintained under the HIDU, or primary data collected through surveys. The HHRU also conducts specific projects pertaining to the management of health human resources at local, regional and provincial levels.

Copies of studies and reports produced by the HHRU are available at no charge.

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INVENTORY 99 represents the culmination of six intensive months of data collection, consistency checks, table generation, definition and other text verification, proof-reading and analysis. The programmer team working on this edition was headed by Kerry Kerluke and included Harold Yip and Patrick Wong Fung. Allyson MacDonald, Laura Wood and Sherin Rahim-Jamal handled the data collection, editing and updating. Allyson MacDonald, Kerry Kerluke, and Laura Wood co-ordinated the report production. Tables were produced on an IBM™ compatible PC using, Microsoft Excel™ v7.0 and software written in FoxPRO™ v2.5. Text was produced using Microsoft Word™ for Windows v7.0.

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INTRODUCTION

The Cooperative Health Human Resources Database (CHHRD), developed and maintained by the Health Human Resources Unit (HHRU) since 1973, provides the basis for a number of our regular and special reports. The *INVENTORY* series presents a regional analysis of health personnel in the province of British Columbia. The series has two components - *INVENTORY* and *INVENTORY UPDATE* - which are produced in alternate years. *INVENTORY*, published for odd-numbered years, contains information derived from the *ROLLCALL* series about selected health professions for which annual electronic data are available through the CHHRD. These data are owned by the regulatory bodies and professional associations of each group.

The tables included in this report have been generated in response to a need for regional information about health human resources planning in British Columbia. They have been published in this format to increase the usability of *ROLLCALL 99* information, but are not meant to replace that volume, which offers more detailed information about the thirty-three health occupations or groups included in *INVENTORY 99*.

Table 1 gives a brief outline, for each professional group, of the source of data and the dates of record used in producing these tables.

Table 1
Source of Data and Date of Record for Selected Health Personnel in B.C.

<u>Occupation</u>	<u>Source of Data</u>	<u>Date of Record</u>
<i>Administrative Services</i>		
Health Record Personnel	Health Record Association of B.C.	Feb 1998 & Feb 2000
Health Services Executives	Canadian College of Health Service Executives & American College of Healthcare Executives	Nov 1999
<i>Dental Services</i>		
Certified Dental Assistants	College of Dental Surgeons of B.C.	Dec 1997 & Jun 2000
Dental Hygienists	College of Dental Hygienists of B.C.	Dec 1997 & Dec 1999
Dental Technicians	College of Dental Technicians of B.C.	Nov 1997 & Nov 1999
Dentists	College of Dental Surgeons of B.C.	Jan 1998 & Jun 2000
Denturists	College of Denturists of B.C.	Dec 1997 & Nov 1999
<i>Laboratory & Therapeutic Technological Services</i>		
Cardiology Technologists	Cardiology Technologists Association of B.C.	Mar 1998 & Mar 2000
Diagnostic Medical Sonographers	American Registry of Diagnostic Medical Sonographers	Apr 2000
Medical Laboratory Technologists	Canadian Society for Medical Laboratory Science	Oct 1997 & Nov 1999
Medical Radiation Technologists	B.C. Association of Medical Radiation Technologists	Feb 1998 & Jun 2000
<i>Medical & Treatment Services</i>		
Chiropractors	B.C. College of Chiropractors	Jun 1998 & Feb 2000
Emergency Medical Assistants	Emergency Medical Assistant Licensing Board	Dec 1997 & Nov 1999
First Responders	Emergency Medical Assistant Licensing Board	Dec 1997 & Nov 1999
Midwives	College of Midwives of B.C.	Jan 1999 & Jan 2000
Naturopathic Physicians	Association of Naturopathic Physicians of B.C.	May 1998 & Nov 1999
Opticians	College of Opticians of B.C.	May 1998 & Nov 1999
Optometrists	B.C. Association of Optometrists	Dec 1997 & Apr 2000
Pharmacists	College of Pharmacists of B.C.	Apr 1998 & Apr 2000
Physicians	College of Physicians and Surgeons of B.C.	Sep 1997 & Sep 1999
Podiatrists	B.C. Association of Podiatrists	Oct 1997 & Oct 1999

... continued

Table 1 (continued)
Source of Data and Date of Record for Selected Health Personnel in B.C.

Nursing Services

Licensed Practical Nurses	College of Licensed Practical Nurses of B.C.	Sep 1997 & Sep 1999
Registered Nurses	Registered Nurses Association of B.C.	Dec 1997 & Dec 1999
Licensed Graduate Nurses	Registered Nurses Association of B.C.	Dec 1997 & Dec 1999
Registered Psychiatric Nurses	College of Registered Psychiatric Nurses of B.C.	Oct 1997 & Dec 1999

Nutrition & Dietary Services

Dietitians & Nutritionists	B.C. Dietitians' and Nutritionists' Association	Dec 1997 & Dec 1999
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Psychological Services /

Social Services

Counsellors	B.C. Association of Clinical Counsellors	Apr 1998 & Jun 2000
Psychologists	College of Psychologists of B.C.	Dec 1997 & Jan 2000

Rehabilitation Services

Audiologists & Speech/Language Pathologists	B.C. Association of Speech/Language Pathologists and Audiologists	May 1998 & Mar 2000
Massage Therapists	College of Massage Therapists of B.C.	Dec 1997 & Jan 2000
Occupational Therapists	B.C. Society of Occupational Therapists	Mar 1998 & Apr 2000
Physical Therapists	College of Physical Therapists of B.C.	Apr 1998 & Jun 2000
Prosthetists & Orthotists	Canadian Board for Certification of Prosthetists & Orthotists & Canadian Association of Prosthetists and Orthotists	Dec 1997 & Apr 2000

Four health personnel groups included in *INVENTORY 97* are missing from *INVENTORY 99*. No data were received this year from two groups, clinical perfusionists and respiratory therapists. For two other health personnel groups, environmental health officers and nutrition managers, the data which were received are known to be largely incomplete and probably not an accurate representation of the number of persons employed in B.C., so they have not been included. We refer you instead to *INVENTORY 97* for the most recent and accurate data available on these groups.

Table 2 is reproduced from the Introduction to *ROLLCALL 99* and outlines data sources by type of health personnel group. Users of these data should be aware that not all of these health personnel groups have a mandatory registration requirement. When there is no registration requirement, data are taken from professional associations, which are thought to represent a large proportion of those working in the field. There may be, however, a certain number of health personnel who are not members of these professional associations and are therefore not counted in these tables. It is impossible to estimate how many people this represents and where they live or work.

Table 2 also shows the varying proportions of each group that are known to be working in the field, compared to those that are not, and those for whom work status is unknown. The tables in the rest of this publication use *total* numbers for the group, as this represents the potential workforce in each region. The distinction between potential workforce and effective supply is an important one for health planners to make; the former represents health human resources available to the region, while the latter refers to health human resources currently deployed. More information about employment is available in *ROLLCALL 99*.

Table 2
Health Personnel¹ in British Columbia by
Mandatory/Voluntary Registration by Employment Status, 1999

	Employed in Field ²	Not Employed In Field ³	Employment Status Unknown	TOTAL
MANDATORY REGISTRATION GROUPS				
Certified Dental Assistants (CDSBC)	-	-	4,887	4,887
Dental Hygienists (CDHBC)	1,379	70	294	1,743
Dental Technicians (CDTBC)	-	-	487	487
Dentists (CDSBC)	-	110	2,556	2,666
Denturists (CDBC)	-	17	207	224
Chiropractors (BCCC)	-	-	699	699
Emergency Medical Assistants (EMALB)	2,802	-	-	2,802
First Responders ⁴ (EMALB)	7,599	-	-	7,599
Midwives (CMBC)	-	-	57	57
Naturopathic Physicians (ANPBC)	-	-	122	122
Opticians (COBC)	1,045	230	44	1,319
Optometrists (BCAO)	-	-	344	344
Pharmacists (CPBC)	2,577	431	-	3,008
Physicians (CPSBC & MSC)	-	-	8,809	8,809
Podiatrists (BCAP)	-	-	83	83
Licensed Practical Nurses (BCCLPN)	4,216	642	5	4,863
Registered Nurses (RNABC)	27,992	3,520	-	31,512
Licensed Graduate Nurses (RNABC)	203	38	-	241
Registered Psychiatric Nurses (CRPNBC)	2,179	316	-	2,495
Psychologists (CPBC)	828	111	5	944
Massage Therapists (CMTBC)	1,160	74	137	1,371
Occupational Therapists (BCSOT)	854	107	5	966
Physical Therapists (CPTBC)	1,937	359	65	2,361
SUB TOTAL	54,771	6,025	18,806	79,602
VOLUNTARY MEMBERSHIP GROUPS				
Health Record Personnel (HRABC)	283	24	21	328
Health Services Executives (CCHSE & ACHE)	-	-	302	302
Cardiology Technologists (CTABC)	257	-	19	276
Diagnostic Medical Sonographers (ARDMS)	-	-	337	337
Medical Laboratory Technologists (CSMLS)	-	265	2,430	2,695
Medical Radiation Technologists (BCAMRT)	1,499	56	58	1,613
Dietitians and Nutritionists (BCDNA)	692	93	2	787
Counsellors (BCACC)	-	-	877	877
Audiologists & Speech/Language Pathologists (BCASLPA)	413	-	41	454
Prosthetists and Orthotists (CBCPO & CAPO)	-	-	68	68
SUB TOTAL	3,144	438	4,155	7,737

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Includes personnel who are known to be employed in the field as reported by the regulatory body, or membership society or association.

³ Includes personnel who have a membership or registration status which makes them ineligible for employment in the field, and those who are reported as "employed in another field", "unemployed", "on leave" or "not practicing" by the regulatory body, or membership society or association.

⁴ Information is collected only for those known to be employed and certified as first responders. However, acting as a first responder is not the primary duty of this employment group (i.e., most are firemen or policemen).

Health Authorities (HAs) in British Columbia are now responsible for health human resources planning in their respective regions, thus this edition of *INVENTORY* presents data by Health Authority (HA) rather than by Health Region (HR) as previous editions of *INVENTORY* and *INVENTORY UPDATE* have done. The Health Authorities used in *INVENTORY 99* include the eleven Regional Health Boards and the seven Community Health Services Societies. The boundaries of these Health Authorities are similar to those of the Health Regions with only two differences: the health regions of Vancouver and Richmond are combined into the Vancouver/Richmond Regional Health Board; and the health regions of Simon Fraser and Burnaby are combined into the Simon Fraser Regional Health

Board. A map of the province's Health Authorities and a table showing the conversion between Local Health Areas, the Health Regions formerly used in *INVENTORY* and the Health Authorities used in this edition is found in Appendix B.

The population 'projections' used this year are from P.E.O.P.L.E. #24 and are the most recent population 'projections' available from the Population Section, B.C. Stats (July 1999). All tables showing inter-temporal comparisons of personnel per 10,000 population distributions for 1997 and 1999 and rates of change for personnel-to-population ratios have been computed using the P.E.O.P.L.E. #24 population data. Therefore, the 1997 and 1998 personnel to population ratios that appear in *INVENTORY 99* may differ from those reported in *INVENTORY 97* and *INVENTORY UPDATE 98* because they have been recalculated based on these updated population data.

The main body of this publication is comprised of tables, starting with a set of tables for provincial totals and followed by tables grouped by Health Authority, with tables for the eleven Regional Health Boards appearing first then followed by tables for the seven Community Health Services Societies. The first table for each Health Authority shows number and number per 10,000 population in 1997 and 1999 for each health occupation. The first table for each Health Authority also shows the average annual rates of change¹ in the number and number per 10,000 population. The average annual rate of change in number is the growth in the number of the health workforce for the year, while the average annual rate of change in ratio shows the growth in the number of the health workforce in relation to the growth in the population. For the latter statistic, a positive number indicates the health workforce grew faster than the general population, and a negative number indicates the health workforce grew more slowly than the general population. This first table also includes numbers of regional hospital beds, community pharmacies, and regional populations.

The second table for each Health Authority shows age and sex distribution for each of the groups for which it is available from *ROLLCALL 99*. The final table produced for each Health Authority shows place of graduation information for those groups contained in the HHRU biennial series *PLACE OF GRADUATION*.

Appendix A is a compilation of information for each health profession excerpted from *ROLLCALL 99*. Included are definitions of types of registration status as well as other information that may be useful in using the tables. Employment address is used wherever possible to locate the health professionals. Specific percentages of home vs. employment or other address are outlined for each group. All of this information should be considered when interpreting numbers from the tables in this document.

¹ Average annual rates of change (in percent) in the number of personnel are computed as follows:

$$[(\text{Personnel 1999}/\text{Personnel 1997})^{12/n} - 1] \times 100,$$

where n=number of months separating the 1997 and 1999 data based on the dates of record listed for each group.

Average annual rates of change (in percent) in the number of personnel relative to the change in population are computed as follows:

$$[\{(\text{Personnel 1999}/\text{Personnel 1997}) \times (\text{Population 1997}/\text{Population 1999})\}^{12/n} - 1] \times 100,$$

where n=number of months separating the two sets of data.

REGIONAL DISTRIBUTIONS

Table 1
B.C. - TOTAL
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	384	328	0.97	0.81	-7.29	-8.24
Health Service Executives (CCHSE & ACHE) ⁵	n/a	302	n/a	0.75	n/a	n/a
Dental Services						
Certified Dental Assistants	4,803	4,887	12.13	12.08	0.70	-0.17
Dental Hygienists	1,634	1,743	4.13	4.31	3.43	2.27
Dental Technicians ⁶	504	487	1.27	1.20	-1.70	-2.76
Dentists	2,495	2,666	6.30	6.59	2.78	1.87
Denturists	230	224	0.58	0.55	-1.37	-2.47
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	258	276	0.65	0.68	3.43	2.32
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	337	n/a	0.83	n/a	n/a
Medical Laboratory Technologists (CSMLS)	2,956	2,695	7.47	6.66	-4.34	-5.33
Medical Radiation Technologists (BCAMRT)	1,548	1,613	3.91	3.99	1.78	0.84
Medical & Treatment Services						
Chiropractors	646	699	1.63	1.73	4.61	3.33
Emergency Medical Assistants	2,773	2,802	7.00	6.93	0.57	-0.61
First Responders	7,271	7,599	18.36	18.78	2.44	1.24
Midwives	49	57	0.12	0.14	16.33	15.30
Naturopathic Physicians	119	122	0.30	0.30	1.67	0.22
Opticians	1,196	1,319	3.02	3.26	6.74	5.22
Optometrists	311	344	0.79	0.85	4.26	3.33
Pharmacists	2,861	3,008	7.23	7.44	2.43	1.38
Physicians (Directory Active)	8,636	8,809	21.81	21.77	1.00	-0.09
Podiatrists	79	83	0.20	0.21	2.50	1.40
Nursing Services						
Licensed Practical Nurses ⁷	n/a	4,863	n/a	12.02	n/a	n/a
Registered Nurses ⁸	31,754	31,512	80.20	77.89	-0.38	-1.45
Licensed Graduate Nurses	321	241	0.81	0.60	-13.35	-14.28
Registered Psychiatric Nurses	2,565	2,495	6.48	6.17	-1.27	-2.25
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	782	787	1.98	1.95	0.32	-0.76
Psychological Services						
Counsellors (BCACC)	808	877	2.04	2.17	3.85	2.83
Psychologists	886	944	2.24	2.33	3.09	2.03
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	492	454	1.24	1.12	-4.11	-5.18
Massage Therapists ⁶	1,231	1,371	3.11	3.39	5.31	4.22
Occupational Therapists (BCSOT)	880	966	2.22	2.39	4.58	3.50
Physical Therapists ⁶	2,333	2,361	5.89	5.84	0.55	-0.44
Prosthetists & Orthotists (CBCPO & CAPO)	64	68	0.16	0.17	2.63	1.69
TOTAL⁹	80,869	81,837	204.25	202.28	0.60	-0.48
Hospital Beds¹⁰						
Acute Care Beds	9,441	9,001	23.84	22.25	-1.58	-2.28
Extended Care Beds	8,276	8,733	20.90	21.59	1.81	1.08
TOTAL BEDS	17,717	17,734	44.75	43.83	0.03	-0.68
Community Pharmacies	697	753	1.76	1.86	3.78	2.71
Population	3,959,338	4,045,661	n/a	n/a	1.08	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

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Table 2
B.C. - TOTAL
Selected Health Personnel¹ by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex Unknown	Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F			
Dental Services																			
Certified Dental Assistants	1	491	3	1,792	1	1,855	1	655	0	73	0	2	0	11	6	4,879	2	4,887	
Dental Hygienists	2	41	26	649	20	629	13	325	4	30	0	2	0	2	65	1,678	0	1,743	
Dentists	3	1	342	209	586	236	674	109	370	16	110	4	5	1	2,090	576	0	2,666	
Denturists	3	1	22	9	58	11	40	12	31	3	21	2	2	3	177	41	6	224	
Medical & Treatment Services																			
Chiropractors	0	0	156	74	196	37	140	19	42	3	21	0	7	3	562	136	1	699	
Emergency Medical Assistants	110	56	584	276	785	276	455	123	95	27	2	0	8	5	2,039	763	0	2,802	
First Responders	389	38	1,996	221	2,563	184	1,738	87	314	21	22	9	15	2	7,037	562	0	7,599	
Opticians	10	13	27	57	37	44	32	31	14	8	1	0	469	574	590	727	2	1,319	
Pharmacists	30	68	423	595	342	491	377	348	158	80	54	2	24	16	1,408	1,600	0	3,008	
Physicians (Directory Active)	1	7	818	610	1,772	975	1,969	577	1,208	175	617	62	9	9	6,394	2,415	0	8,809	
Podiatrists	0	0	14	7	26	4	25	1	3	0	3	0	0	0	71	12	0	83	
Nursing Services																			
Licensed Practical Nurses	8	91	51	595	122	1,332	124	1,740	57	639	2	31	4	67	368	4,495	0	4,863	
Registered Nurses	25	541	265	5,076	450	9,131	356	10,175	122	4,938	4	429	0	0	1,222	30,290	0	31,512	
Licensed Graduate Nurses	0	0	0	0	1	33	3	140	0	57	0	7	0	0	4	237	0	241	
Registered Psychiatric Nurses	0	27	46	340	122	514	207	694	167	294	10	19	13	42	565	1,930	0	2,495	
Nutrition & Dietary Services																			
Dietitians & Nutritionists	1	5	5	219	5	285	2	189	0	46	0	2	2	26	15	772	0	787	
Psychological Services																			
Counsellors	0	0	7	23	54	136	108	312	48	109	6	13	29	32	252	625	0	877	
Psychologists	0	0	5	25	77	112	191	220	152	109	38	15	0	0	463	481	0	944	
Rehabilitation Services																			
Massage Therapists	4	26	132	379	149	334	82	206	17	32	7	3	0	0	391	980	0	1,371	
Occupational Therapists	0	1	8	148	27	267	8	189	0	63	1	2	1	251	45	921	0	966	
Physical Therapists	0	8	133	408	147	585	86	631	39	252	14	38	5	14	424	1,936	1	2,361	
TOTAL	587	1,415	5,063	11,712	7,540	17,471	6,631	16,783	2,841	6,975	933	642	593	1,058	24,188	56,056	12	80,256	

¹ Age and sex information are not available for all health groups.

Table 3
B.C. - TOTAL
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	4,468	91.43	164	3.36	47	0.96	7	0.14	7	0.14	4,693	96.03	193	3.95	1	0.02	4,887	100.00
Dental Hygienists	854	49.00	170	9.75	157	9.01	257	14.74	148	8.49	1,586	90.99	157	9.01	0	0.00	1,743	100.00
Dentists	998	37.43	373	13.99	251	9.41	214	8.03	238	8.93	2,074	77.79	591	22.17	1	0.04	2,666	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	2,264	75.27	151	5.02	245	8.14	49	1.63	37	1.23	2,746	91.29	206	6.85	56	1.86	3,008	100.00
Physicians (Directory Active)	2,385	27.07	1,083	12.29	748	8.49	1,454	16.51	710	8.06	6,380	72.43	2,429	27.57	0	0.00	8,809	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	3,275	67.35	335	6.89	309	6.35	377	7.75	186	3.82	4,482	92.17	254	5.22	127	2.61	4,863	100.00
Registered Nurses	16,949	53.79	2,539	8.06	2,530	8.03	3,164	10.04	1,644	5.22	26,826	85.13	4,676	14.84	10	0.03	31,512	100.00
Registered Psychiatric Nurses	1,603	64.25	102	4.09	285	11.42	0	0.00	0	0.00	1,990	79.76	319	12.79	186	7.45	2,495	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	375	47.65	81	10.29	75	9.53	96	12.20	99	12.58	726	92.25	57	7.24	4	0.51	787	100.00
<i>Psychological Services</i>																		
Psychologists	378	40.04	82	8.69	44	4.66	139	14.72	35	3.71	678	71.82	266	28.18	0	0.00	944	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	982	71.63	3	0.22	4	0.29	348	25.38	1	0.07	1,338	97.59	18	1.31	15	1.09	1,371	100.00
Occupational Therapists	377	39.03	97	10.04	48	4.97	140	14.49	70	7.25	732	75.78	220	22.77	14	1.45	966	100.00
Physical Therapists	615	26.05	186	7.88	160	6.78	292	12.37	150	6.35	1,403	59.42	749	31.72	209	8.85	2,361	100.00
TOTAL	35,523	53.49	5,366	8.08	4,903	7.38	6,537	9.84	3,325	5.01	55,654	83.80	10,135	15.26	623	0.94	66,412	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 4
North Okanagan Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	10	7	0.86	0.59	-15.74	-16.32
Health Service Executives (CCHSE & ACHE) ⁵	n/a	8	n/a	0.68	n/a	n/a
Dental Services						
Certified Dental Assistants	148	140	12.68	11.82	-2.20	-2.76
Dental Hygienists	44	45	3.77	3.80	1.18	0.42
Dental Technicians ⁶	4	4	0.34	0.34	*	*
Dentists	61	58	5.23	4.90	-2.07	-2.65
Denturists	8	8	0.69	0.68	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	3	3	0.26	0.25	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	7	n/a	0.59	n/a	n/a
Medical Laboratory Technologists (CSMLS)	74	72	6.34	6.08	-1.31	-1.99
Medical Radiation Technologists (BCAMRT)	38	44	3.26	3.72	6.48	5.83
Medical & Treatment Services						
Chiropractors	27	30	2.31	2.53	6.21	5.33
Emergency Medical Assistants	93	89	7.97	7.51	-2.37	-3.13
First Responders	101	183	8.65	15.45	38.29	37.21
Midwives	0	0	0.00	0.00	*	*
Naturopathic Physicians	5	4	0.43	0.34	*	*
Opticians	31	32	2.66	2.70	2.14	1.16
Optometrists	9	9	0.77	0.76	*	*
Pharmacists	68	73	5.82	6.16	3.46	2.75
Physicians (Directory Active)	190	203	16.28	17.14	3.36	2.62
Podiatrists	2	2	0.17	0.17	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	202	n/a	17.06	n/a	n/a
Registered Nurses ⁸	830	796	71.10	67.21	-2.07	-2.77
Licensed Graduate Nurses	0	0	0.00	0.00	*	*
Registered Psychiatric Nurses	74	76	6.34	6.42	1.24	0.57
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	15	19	1.28	1.60	12.55	11.74
Psychological Services						
Counsellors (BCACC)	15	15	1.28	1.27	0.00	-0.66
Psychologists	8	10	0.69	0.84	*	*
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	19	19	1.63	1.60	0.00	-0.75
Massage Therapists ⁶	45	52	3.85	4.39	7.19	6.45
Occupational Therapists (BCSOT)	12	13	1.03	1.10	3.92	3.20
Physical Therapists ⁶	75	76	6.42	6.42	0.61	-0.05
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	2,009	2,082	172.09	175.80	1.80	1.07
Hospital Beds¹⁰						
Acute Care Beds	279	261	23.90	22.04	-2.20	-2.67
Extended Care Beds	295	325	25.27	27.44	3.28	2.79
TOTAL BEDS	574	586	49.17	49.48	0.69	0.21
Community Pharmacies	18	20	1.54	1.69	5.19	4.46
Population	116,739	118,433	n/a	n/a	0.72	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 5
North Okanagan Regional Health Board
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	11	0	47	0	52	0	25	0	4	0	0	0	1	0	140	140	
Dental Hygienists	0	0	0	18	0	17	1	9	0	0	0	0	0	0	1	44	45	
Dentists	0	0	11	4	9	3	17	0	14	0	0	0	0	0	51	7	58	
Denturists	0	0	0	1	2	0	1	0	3	0	1	0	0	0	7	1	8	
Medical & Treatment Services																		
Chiropractors	0	0	9	3	10	1	5	0	1	0	1	0	0	0	26	4	30	
Emergency Medical Assistants	2	1	15	6	23	10	17	8	7	0	0	0	0	0	64	25	89	
First Responders	13	4	30	7	59	13	36	6	11	3	1	0	0	0	150	33	183	
Opticians	0	0	0	2	0	0	3	2	0	0	0	0	13	12	16	16	32	
Pharmacists	0	0	7	12	15	8	17	6	5	1	2	0	0	0	46	27	73	
Physicians (Directory Active)	0	0	20	8	55	20	39	7	35	3	16	0	0	0	165	38	203	
Podiatrists	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	2	
Nursing Services																		
Licensed Practical Nurses	1	2	0	18	1	60	4	81	1	30	0	2	1	1	8	194	202	
Registered Nurses	2	8	4	67	4	226	5	327	1	145	0	7	0	0	16	780	796	
Licensed Graduate Nurses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Registered Psychiatric Nurses	0	0	1	2	1	16	4	30	6	13	1	1	0	1	13	63	76	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	1	5	1	9	0	2	0	1	0	0	0	0	2	17	19	
Psychological Services																		
Counsellors	0	0	0	0	1	3	3	3	0	2	0	0	1	2	5	10	15	
Psychologists	0	0	0	0	0	1	3	1	1	2	2	0	0	0	6	4	10	
Rehabilitation Services																		
Massage Therapists	0	1	4	17	5	15	5	4	0	1	0	0	0	0	14	38	52	
Occupational Therapists	0	0	0	2	0	5	0	2	0	2	0	0	0	2	0	13	13	
Physical Therapists	0	1	3	10	7	20	5	18	2	7	1	2	0	0	18	58	76	
TOTAL	18	28	105	229	195	479	165	531	87	214	25	12	15	19	610	1,512	2,122	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 6
North Okanagan Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	120	85.71	9	6.43	2	1.43	0	0.00	0	0.00	131	93.57	9	6.43	0	0.00	140	100.00
Dental Hygienists	17	37.78	8	17.78	8	17.78	5	11.11	2	4.44	40	88.89	5	11.11	0	0.00	45	100.00
Dentists	21	36.21	17	29.31	7	12.07	3	5.17	4	6.90	52	89.66	6	10.34	0	0.00	58	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	54	73.97	2	2.74	13	17.81	0	0.00	0	0.00	69	94.52	3	4.11	1	1.37	73	100.00
Physicians (Directory Active)	58	28.57	36	17.73	26	12.81	20	9.85	17	8.37	157	77.34	46	22.66	0	0.00	203	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	123	60.89	28	13.86	18	8.91	18	8.91	5	2.48	192	95.05	2	0.99	8	3.96	202	100.00
Registered Nurses	463	58.17	116	14.57	80	10.05	62	7.79	28	3.52	749	94.10	47	5.90	0	0.00	796	100.00
Registered Psychiatric Nurses	47	61.84	9	11.84	13	17.11	0	0.00	0	0.00	69	90.79	1	1.32	6	7.89	76	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	10	52.63	1	5.26	3	15.79	1	5.26	1	5.26	16	84.21	3	15.79	0	0.00	19	100.00
<i>Psychological Services</i>																		
Psychologists	4	40.00	0	0.00	1	10.00	1	10.00	0	0.00	6	60.00	4	40.00	0	0.00	10	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	40	76.92	0	0.00	1	1.92	11	21.15	0	0.00	52	100.00	0	0.00	0	0.00	52	100.00
Occupational Therapists	4	30.77	5	38.46	2	15.38	2	15.38	0	0.00	13	100.00	0	0.00	0	0.00	13	100.00
Physical Therapists	21	27.63	12	15.79	9	11.84	5	6.58	2	2.63	49	64.47	21	27.63	6	7.89	76	100.00
TOTAL	982	55.70	243	13.78	183	10.38	128	7.26	59	3.35	1,595	90.47	147	8.34	21	1.19	1,763	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 7
Okanagan Similkameen Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	18	21	0.80	0.91	7.68	6.56
Health Service Executives (CCHSE & ACHE) ⁵	n/a	9	n/a	0.39	n/a	n/a
Dental Services						
Certified Dental Assistants	314	328	13.89	14.19	1.76	0.87
Dental Hygienists	101	112	4.47	4.85	5.54	4.35
Dental Technicians ⁶	33	28	1.46	1.21	-7.89	-8.89
Dentists	128	126	5.66	5.45	-0.65	-1.54
Denturists	20	19	0.88	0.82	-2.64	-3.74
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	15	20	0.66	0.87	15.47	14.22
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	15	n/a	0.65	n/a	n/a
Medical Laboratory Technologists (CSMLS)	175	170	7.74	7.36	-1.38	-2.41
Medical Radiation Technologists (BCAMRT)	76	109	3.36	4.72	16.71	15.63
Medical & Treatment Services						
Chiropractors	52	54	2.30	2.34	2.18	0.91
Emergency Medical Assistants	163	180	7.21	7.79	5.56	4.31
First Responders	349	442	15.44	19.13	13.75	12.40
Midwives	1	2	0.04	0.09	*	*
Naturopathic Physicians	12	10	0.53	0.43	-11.45	-12.73
Opticians	87	94	3.85	4.07	5.29	3.77
Optometrists	19	22	0.84	0.95	6.25	5.30
Pharmacists	165	172	7.30	7.44	2.01	0.95
Physicians (Directory Active)	396	418	17.52	18.09	2.74	1.62
Podiatrists	5	5	0.22	0.22	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	499	n/a	21.59	n/a	n/a
Registered Nurses ⁸	1,800	1,846	79.62	79.89	1.27	0.17
Licensed Graduate Nurses	7	5	0.31	0.22	*	*
Registered Psychiatric Nurses	102	109	4.51	4.72	3.11	2.08
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	35	42	1.55	1.82	9.54	8.35
Psychological Services						
Counsellors (BCACC)	31	31	1.37	1.34	0.00	-1.00
Psychologists	25	24	1.11	1.04	-1.94	-2.96
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	22	19	0.97	0.82	-7.36	-8.41
Massage Therapists ⁶	71	86	3.14	3.72	9.64	8.49
Occupational Therapists (BCSOT)	69	79	3.05	3.42	6.71	5.60
Physical Therapists ⁶	152	151	6.72	6.53	-0.30	-1.30
Prosthetists & Orthotists (CBCPO & CAPO)	9	9	0.40	0.39	*	*
TOTAL⁹	4,452	4,733	196.92	204.82	3.11	1.99
Hospital Beds¹⁰						
Acute Care Beds	597	530	26.41	22.94	-3.89	-4.59
Extended Care Beds	635	673	28.09	29.12	1.96	1.22
TOTAL BEDS	1,232	1,203	54.49	52.06	-0.79	-1.51
Community Pharmacies	43	45	1.90	1.95	2.21	1.14
Population	226,087	231,082	n/a	n/a	1.10	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

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The University of British Columbia

Table 8
Okanagan Similkameen Regional Health Board
Selected Health Personnel¹ by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown	
Dental Services																		
Certified Dental Assistants	0	33	1	117	0	123	0	48	0	5	0	1	0	0	1	327	0	328
Dental Hygienists	0	2	1	37	0	48	1	21	0	1	0	0	0	1	2	110	0	112
Dentists	1	0	19	6	29	8	37	1	19	0	6	0	0	0	111	15	0	126
Denturists	0	0	2	0	5	4	2	1	2	0	2	0	1	0	14	5	0	19
Medical & Treatment Services																		
Chiropractors	0	0	17	2	14	2	12	2	2	0	2	0	0	0	47	6	1	54
Emergency Medical Assistants	10	8	42	12	44	16	32	5	11	0	0	0	0	139	41	0	180	
First Responders	44	1	133	3	122	8	94	4	30	0	3	0	0	426	16	0	442	
Opticians	0	0	1	2	1	7	1	3	1	2	0	0	28	48	32	62	0	94
Pharmacists	1	3	28	21	21	23	24	20	16	5	8	0	2	0	100	72	0	172
Physicians (Directory Active)	0	0	23	16	111	48	110	18	64	6	20	2	0	0	328	90	0	418
Podiatrists	0	0	0	0	1	0	3	0	0	0	1	0	0	0	5	0	0	5
Nursing Services																		
Licensed Practical Nurses	1	11	10	60	21	129	13	175	4	68	0	1	0	6	49	450	0	499
Registered Nurses	0	36	18	223	23	574	17	620	7	303	0	25	0	0	65	1,781	0	1,846
Licensed Graduate Nurses	0	0	0	0	0	1	0	2	0	2	0	0	0	0	5	0	0	5
Registered Psychiatric Nurses	0	0	3	10	9	22	10	31	0	19	0	2	1	2	23	86	0	109
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	1	1	15	0	15	1	8	0	1	0	0	0	0	2	40	0	42
Psychological Services																		
Counsellors	0	0	0	0	2	5	5	13	0	2	0	0	3	1	10	21	0	31
Psychologists	0	0	0	0	3	3	7	3	6	0	2	0	0	0	18	6	0	24
Rehabilitation Services																		
Massage Therapists	1	1	6	19	16	17	8	13	2	2	1	0	0	0	34	52	0	86
Occupational Therapists	0	0	1	9	1	22	1	15	0	4	0	0	1	25	4	75	0	79
Physical Therapists	0	0	9	20	14	50	6	38	2	10	2	0	0	0	33	118	0	151
TOTAL	58	96	315	572	437	1,125	384	1,041	166	430	47	31	36	83	1,443	3,378	1	4,822

¹ Age and sex information are not available for all health groups.

Table 9
Okanagan Similkameen Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	297	90.55	15	4.57	7	2.13	1	0.30	0	0.00	320	97.56	8	2.44	0	0.00	328	100.00
Dental Hygienists	43	38.39	24	21.43	14	12.50	14	12.50	4	3.57	99	88.39	13	11.61	0	0.00	112	100.00
Dentists	28	22.22	28	22.22	19	15.08	9	7.14	17	13.49	101	80.16	25	19.84	0	0.00	126	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	115	66.86	23	13.37	27	15.70	0	0.00	0	0.00	165	95.93	5	2.91	2	1.16	172	100.00
Physicians (Directory Active)	102	24.40	74	17.70	65	15.55	78	18.66	22	5.26	341	81.58	77	18.42	0	0.00	418	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	346	69.34	48	9.62	39	7.82	32	6.41	16	3.21	481	96.39	10	2.00	8	1.60	499	100.00
Registered Nurses	965	52.28	267	14.46	255	13.81	178	9.64	69	3.74	1,734	93.93	112	6.07	0	0.00	1,846	100.00
Registered Psychiatric Nurses	57	52.29	12	11.01	26	23.85	0	0.00	0	0.00	95	87.16	4	3.67	10	9.17	109	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	19	45.24	5	11.90	7	16.67	7	16.67	3	7.14	41	97.62	1	2.38	0	0.00	42	100.00
<i>Psychological Services</i>																		
Psychologists	3	12.50	4	16.67	2	8.33	8	33.33	0	0.00	17	70.83	7	29.17	0	0.00	24	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	54	62.79	1	1.16	0	0.00	29	33.72	0	0.00	84	97.67	1	1.16	1	1.16	86	100.00
Occupational Therapists	24	30.38	15	18.99	11	13.92	9	11.39	6	7.59	65	82.28	13	16.46	1	1.27	79	100.00
Physical Therapists	39	25.83	9	5.96	16	10.60	19	12.58	8	5.30	91	60.26	43	28.48	17	11.26	151	100.00
TOTAL	2,092	52.40	525	13.15	488	12.22	384	9.62	145	3.63	3,634	91.03	319	7.99	39	0.98	3,992	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 10
Thompson Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	13	9	0.97	0.66	-16.18	-17.21
Health Service Executives (CCHSE & ACHE) ⁵	n/a	6	n/a	0.44	n/a	n/a
Dental Services						
Certified Dental Assistants	166	167	12.45	12.20	0.24	-0.78
Dental Hygienists	54	57	4.05	4.17	2.86	1.49
Dental Technicians ⁶	12	11	0.90	0.80	-4.26	-5.48
Dentists	57	59	4.27	4.31	1.44	0.36
Denturists	4	5	0.30	0.37	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	3	5	0.22	0.37	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	10	n/a	0.73	n/a	n/a
Medical Laboratory Technologists (CSMLS)	113	107	8.47	7.82	-2.58	-3.78
Medical Radiation Technologists (BCAMRT)	57	54	4.27	3.95	-2.29	-3.36
Medical & Treatment Services						
Chiropractors	19	20	1.42	1.46	2.97	1.47
Emergency Medical Assistants	195	204	14.62	14.91	2.49	1.07
First Responders	246	264	18.44	19.29	3.93	2.48
Midwives	0	0	0.00	0.00	*	*
Naturopathic Physicians	3	3	0.22	0.22	*	*
Opticians	28	34	2.10	2.48	13.82	11.89
Optometrists	17	18	1.27	1.32	2.39	1.31
Pharmacists	80	84	6.00	6.14	2.37	1.11
Physicians (Directory Active)	208	209	15.59	15.27	0.24	-1.04
Podiatrists	1	1	0.07	0.07	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	194	n/a	14.18	n/a	n/a
Registered Nurses ⁸	1,081	1,067	81.05	77.97	-0.65	-1.92
Licensed Graduate Nurses	1	1	0.07	0.07	*	*
Registered Psychiatric Nurses	59	51	4.42	3.73	-6.50	-7.61
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	22	21	1.65	1.53	-2.30	-3.55
Psychological Services						
Counsellors (BCACC)	25	21	1.87	1.53	-7.73	-8.82
Psychologists	11	11	0.82	0.80	0.00	-1.23
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	15	15	1.12	1.10	0.00	-1.33
Massage Therapists ⁶	31	38	2.32	2.78	10.27	8.91
Occupational Therapists (BCSOT)	21	24	1.57	1.75	6.62	5.31
Physical Therapists ⁶	60	62	4.50	4.53	1.52	0.33
Prosthetists & Orthotists (CBCPO & CAPO)	5	5	0.37	0.37	*	*
TOTAL⁹	2,607	2,627	195.46	191.96	0.38	-0.90
Hospital Beds¹⁰						
Acute Care Beds	340	329	25.49	24.04	-1.09	-1.93
Extended Care Beds	255	255	19.12	18.63	0.00	-0.85
TOTAL BEDS	595	584	44.61	42.67	-0.62	-1.47
Community Pharmacies	22	26	1.65	1.90	8.35	7.02
Population	133,379	136,850	n/a	n/a	1.29	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 11
Thompson Regional Health Board
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Dental Services																	
Certified Dental Assistants	0	12	0	59	0	67	0	28	0	1	0	0	0	0	0	167	167
Dental Hygienists	0	0	1	25	0	21	0	9	0	1	0	0	0	0	1	56	57
Dentists	0	0	10	6	9	3	20	0	7	0	4	0	0	0	50	9	59
Denturists	0	0	1	0	0	0	1	0	3	0	0	0	0	0	5	0	5
Medical & Treatment Services																	
Chiropractors	0	0	6	0	7	0	5	0	1	0	1	0	0	0	20	0	20
Emergency Medical Assistants	16	8	45	25	36	25	37	6	4	1	0	0	1	0	139	65	204
First Responders	12	1	81	14	75	15	49	3	12	1	1	0	0	0	230	34	264
Opticians	0	0	1	1	3	0	2	1	0	0	0	0	7	19	13	21	34
Pharmacists	0	1	18	11	5	14	13	7	7	4	2	0	2	0	47	37	84
Physicians (Directory Active)	0	0	12	10	58	13	57	12	34	2	9	1	1	0	171	38	209
Podiatrists	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1
Nursing Services																	
Licensed Practical Nurses	0	0	1	11	1	46	2	101	1	27	0	0	0	4	5	189	194
Registered Nurses	1	11	11	182	14	334	5	355	2	145	1	6	0	0	34	1,033	1,067
Licensed Graduate Nurses	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Registered Psychiatric Nurses	0	0	0	3	0	8	2	19	6	9	1	1	1	1	10	41	51
Nutrition & Dietary Services																	
Dietitians & Nutritionists	0	0	0	4	0	12	0	4	0	1	0	0	0	0	0	21	21
Psychological Services																	
Counsellors	0	0	1	0	1	1	4	5	2	3	1	0	3	0	12	9	21
Psychologists	0	0	0	0	2	0	2	2	4	1	0	0	0	0	8	3	11
Rehabilitation Services																	
Massage Therapists	0	2	3	13	3	9	1	3	0	3	1	0	0	0	8	30	38
Occupational Therapists	0	0	1	7	0	5	1	7	0	1	0	0	0	2	2	22	24
Physical Therapists	0	0	2	6	5	16	4	15	2	11	0	1	0	0	13	49	62
TOTAL	29	35	194	377	219	589	206	577	85	212	21	9	15	26	769	1,825	2,594

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 12
Thompson Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	149	89.22	15	8.98	0	0.00	0	0.00	0	0.00	164	98.20	3	1.80	0	0.00	167	100.00
Dental Hygienists	30	52.63	8	14.04	4	7.02	7	12.28	6	10.53	55	96.49	2	3.51	0	0.00	57	100.00
Dentists	28	47.46	9	15.25	8	13.56	6	10.17	2	3.39	53	89.83	6	10.17	0	0.00	59	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	67	79.76	4	4.76	8	9.52	0	0.00	0	0.00	79	94.05	4	4.76	1	1.19	84	100.00
Physicians (Directory Active)	46	22.01	40	19.14	21	10.05	37	17.70	14	6.70	158	75.60	51	24.40	0	0.00	209	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	121	62.37	19	9.79	20	10.31	12	6.19	10	5.15	182	93.81	8	4.12	4	2.06	194	100.00
Registered Nurses	725	67.95	100	9.37	79	7.40	85	7.97	31	2.91	1,020	95.60	47	4.40	0	0.00	1,067	100.00
Registered Psychiatric Nurses	31	60.78	2	3.92	5	9.80	0	0.00	0	0.00	38	74.51	6	11.76	7	13.73	51	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	10	47.62	2	9.52	1	4.76	2	9.52	3	14.29	18	85.71	2	9.52	1	4.76	21	100.00
<i>Psychological Services</i>																		
Psychologists	7	63.64	0	0.00	1	9.09	1	9.09	1	9.09	10	90.91	1	9.09	0	0.00	11	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	30	78.95	0	0.00	0	0.00	8	21.05	0	0.00	38	100.00	0	0.00	0	0.00	38	100.00
Occupational Therapists	12	50.00	4	16.67	0	0.00	3	12.50	0	0.00	19	79.17	5	20.83	0	0.00	24	100.00
Physical Therapists	19	30.65	8	12.90	6	9.68	4	6.45	4	6.45	41	66.13	17	27.42	4	6.45	62	100.00
TOTAL	1,275	62.38	211	10.32	153	7.49	165	8.07	71	3.47	1,875	91.73	152	7.44	17	0.83	2,044	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 13
Fraser Valley Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	13	14	0.55	0.58	3.62	2.43
Health Service Executives (CCHSE & ACHE) ⁵	n/a	11	n/a	0.46	n/a	n/a
Dental Services						
Certified Dental Assistants	338	366	14.32	15.14	3.23	2.25
Dental Hygienists	80	82	3.39	3.39	1.30	0.03
Dental Technicians ⁶	17	19	0.72	0.79	5.72	4.46
Dentists	100	94	4.24	3.89	-2.53	-3.49
Denturists	9	11	0.38	0.46	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	14	13	0.59	0.54	-3.64	-4.79
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	16	n/a	0.66	n/a	n/a
Medical Laboratory Technologists (CSMLS)	124	115	5.25	4.76	-3.55	-4.66
Medical Radiation Technologists (BCAMRT)	60	59	2.54	2.44	-0.72	-1.74
Medical & Treatment Services						
Chiropractors	32	36	1.36	1.49	6.96	5.50
Emergency Medical Assistants	111	126	4.70	5.21	7.16	5.76
First Responders	386	359	16.36	14.85	-3.88	-5.13
Midwives	1	1	0.04	0.04	*	*
Naturopathic Physicians	3	3	0.13	0.12	*	*
Opticians	71	81	3.01	3.35	9.18	7.45
Optometrists	19	21	0.81	0.87	4.23	3.20
Pharmacists	142	147	6.02	6.08	1.67	0.51
Physicians (Directory Active)	324	336	13.73	13.90	1.84	0.62
Podiatrists	2	4	0.08	0.17	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	215	n/a	8.89	n/a	n/a
Registered Nurses ⁸	1,414	1,401	59.92	57.95	-0.46	-1.65
Licensed Graduate Nurses	7	7	0.30	0.29	*	*
Registered Psychiatric Nurses	141	130	5.97	5.38	-3.68	-4.74
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	23	24	0.97	0.99	2.15	0.93
Psychological Services						
Counsellors (BCACC)	51	62	2.16	2.56	9.43	8.22
Psychologists	28	29	1.19	1.20	1.70	0.53
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	24	23	1.02	0.95	-2.20	-3.42
Massage Therapists ⁶	36	44	1.53	1.82	10.11	8.85
Occupational Therapists (BCSOT)	17	21	0.72	0.87	10.68	9.40
Physical Therapists ⁶	79	76	3.35	3.14	-1.77	-2.86
Prosthetists & Orthotists (CBCPO & CAPO)	1	1	0.04	0.04	*	*
TOTAL⁹	3,667	3,705	155.38	153.26	0.52	-0.68
Hospital Beds¹⁰						
Acute Care Beds	425	401	18.01	16.59	-1.92	-2.70
Extended Care Beds	576	601	24.41	24.86	1.43	0.62
TOTAL BEDS	1,001	1,002	42.42	41.45	0.03	-0.77
Community Pharmacies	40	44	1.69	1.82	4.68	3.48
Population	235,996	241,741	n/a	n/a	1.21	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 14
Fraser Valley Regional Health Board
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	64	1	132	0	139	0	24	0	5	0	0	0	1	1	365	366	
Dental Hygienists	0	5	1	26	1	34	2	11	1	1	0	0	0	0	5	77	82	
Dentists	0	0	12	5	26	7	27	3	12	0	2	0	0	0	79	15	94	
Denturists	0	0	4	0	1	1	1	0	2	0	2	0	0	0	10	1	11	
Medical & Treatment Services																		
Chiropractors	0	0	9	2	9	1	9	1	4	0	1	0	0	0	32	4	36	
Emergency Medical Assistants	4	1	27	10	44	3	30	2	5	0	0	0	0	0	110	16	126	
First Responders	30	0	112	8	148	5	49	1	5	0	1	0	0	0	345	14	359	
Opticians	0	2	2	6	0	1	3	4	1	1	0	0	24	37	30	51	81	
Pharmacists	2	4	32	22	25	21	13	14	7	3	4	0	0	0	83	64	147	
Physicians (Directory Active)	0	1	29	23	82	15	86	16	40	6	33	5	0	0	270	66	336	
Podiatrists	0	0	0	0	1	1	2	0	0	0	0	0	0	0	3	1	4	
Nursing Services																		
Licensed Practical Nurses	0	5	0	18	6	73	3	69	1	32	0	3	0	5	10	205	215	
Registered Nurses	0	24	9	220	14	395	14	461	11	230	1	22	0	0	49	1,352	1,401	
Licensed Graduate Nurses	0	0	0	0	0	0	0	3	0	3	0	1	0	0	0	7	7	
Registered Psychiatric Nurses	0	0	3	12	4	20	11	37	17	21	2	0	1	2	38	92	130	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	7	0	12	0	2	0	3	0	0	0	0	0	24	24	
Psychological Services																		
Counsellors	0	0	2	7	5	3	10	21	5	5	0	0	2	2	24	38	62	
Psychologists	0	0	1	1	6	3	8	2	5	2	1	0	0	0	21	8	29	
Rehabilitation Services																		
Massage Therapists	0	2	5	8	4	8	6	8	1	1	1	0	0	0	17	27	44	
Occupational Therapists	0	0	0	2	1	6	0	3	0	0	0	0	0	9	1	20	21	
Physical Therapists	0	0	9	16	5	10	3	23	3	7	0	0	0	0	20	56	76	
TOTAL	36	108	258	525	382	758	277	705	120	320	48	31	27	56	1,148	2,503	3,651	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 15
Fraser Valley Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	344	93.99	8	2.19	2	0.55	0	0.00	2	0.55	356	97.27	10	2.73	0	0.00	366	100.00
Dental Hygienists	33	40.24	3	3.66	7	8.54	19	23.17	12	14.63	74	90.24	8	9.76	0	0.00	82	100.00
Dentists	40	42.55	13	13.83	11	11.70	1	1.06	8	8.51	73	77.66	21	22.34	0	0.00	94	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	112	76.19	5	3.40	12	8.16	0	0.00	1	0.68	130	88.44	16	10.88	1	0.68	147	100.00
Physicians (Directory Active)	91	27.08	30	8.93	40	11.90	44	13.10	17	5.06	222	66.07	114	33.93	0	0.00	336	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	120	55.81	24	11.16	21	9.77	21	9.77	13	6.05	199	92.56	8	3.72	8	3.72	215	100.00
Registered Nurses	756	53.96	115	8.21	175	12.49	147	10.49	66	4.71	1,259	89.86	142	10.14	0	0.00	1,401	100.00
Registered Psychiatric Nurses	70	53.85	8	6.15	20	15.38	0	0.00	0	0.00	98	75.38	20	15.38	12	9.23	130	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	13	54.17	2	8.33	2	8.33	5	20.83	2	8.33	24	100.00	0	0.00	0	0.00	24	100.00
<i>Psychological Services</i>																		
Psychologists	11	37.93	2	6.90	3	10.34	4	13.79	3	10.34	23	79.31	6	20.69	0	0.00	29	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	31	70.45	0	0.00	0	0.00	9	20.45	0	0.00	40	90.91	2	4.55	2	4.55	44	100.00
Occupational Therapists	4	19.05	8	38.10	3	14.29	2	9.52	1	4.76	18	85.71	3	14.29	0	0.00	21	100.00
Physical Therapists	23	30.26	9	11.84	5	6.58	11	14.47	3	3.95	51	67.11	21	27.63	4	5.26	76	100.00
TOTAL	1,648	55.58	227	7.66	301	10.15	263	8.87	128	4.32	2,567	86.58	371	12.51	27	0.91	2,965	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 16
South Fraser Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	51	45	0.92	0.78	-5.83	-7.39
Health Service Executives (CCHSE & ACHE) ⁵	n/a	27	n/a	0.47	n/a	n/a
Dental Services						
Certified Dental Assistants	700	736	12.60	12.79	2.03	0.62
Dental Hygienists	195	204	3.51	3.55	2.38	0.54
Dental Technicians ⁶	49	42	0.88	0.73	-7.42	-9.01
Dentists	277	289	4.99	5.02	1.77	0.32
Denturists	26	26	0.47	0.45	0.00	-1.80
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	42	50	0.76	0.87	9.11	7.23
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	44	n/a	0.76	n/a	n/a
Medical Laboratory Technologists (CSMLS)	379	354	6.82	6.15	-3.22	-4.82
Medical Radiation Technologists (BCAMRT)	153	158	2.75	2.75	1.39	-0.11
Medical & Treatment Services						
Chiropractors	69	72	1.24	1.25	2.46	0.45
Emergency Medical Assistants	128	127	2.30	2.21	-0.43	-2.30
First Responders	1,013	926	18.23	16.10	-4.78	-6.57
Midwives	3	6	0.05	0.10	*	*
Naturopathic Physicians	15	13	0.27	0.23	-9.10	-11.18
Opticians	153	178	2.75	3.09	10.62	8.08
Optometrists	31	37	0.56	0.64	7.60	6.06
Pharmacists	317	346	5.71	6.01	4.29	2.57
Physicians (Directory Active)	694	714	12.49	12.41	1.43	-0.32
Podiatrists	11	9	0.20	0.16	-9.55	-11.11
Nursing Services						
Licensed Practical Nurses ⁷	n/a	398	n/a	6.92	n/a	n/a
Registered Nurses ⁸	2,909	2,883	52.36	50.12	-0.45	-2.16
Licensed Graduate Nurses	36	27	0.65	0.47	-13.40	-14.89
Registered Psychiatric Nurses	258	243	4.64	4.22	-2.73	-4.27
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	69	74	1.24	1.29	3.56	1.78
Psychological Services						
Counsellors (BCACC)	97	108	1.75	1.88	5.08	3.41
Psychologists	67	81	1.21	1.41	9.54	7.72
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	52	51	0.94	0.89	-1.01	-2.79
Massage Therapists ⁶	109	123	1.96	2.14	5.97	4.22
Occupational Therapists (BCSOT)	69	77	1.24	1.34	5.41	3.66
Physical Therapists ⁶	188	209	3.38	3.63	5.01	3.34
Prosthetists & Orthotists (CBCPO & CAPO)	1	4	0.02	0.07	*	*
TOTAL⁹	8,161	8,212	146.89	142.76	0.31	-1.42
Hospital Beds¹⁰						
Acute Care Beds	808	780	14.54	13.56	-1.17	-2.31
Extended Care Beds	741	908	13.34	15.78	7.01	5.78
TOTAL BEDS	1,549	1,688	27.88	29.34	2.91	1.72
Community Pharmacies						
	84	96	1.51	1.67	6.62	4.86
Population						
	555,591	575,242	n/a	n/a	1.75	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 17
South Fraser Regional Health Board
Selected Health Personnel¹ by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown	
Dental Services																		
Certified Dental Assistants	1	64	0	286	0	262	1	106	0	11	0	0	0	4	2	733	1	736
Dental Hygienists	1	5	4	61	0	80	0	47	0	5	0	1	0	0	5	199	0	204
Dentists	0	0	34	20	71	32	76	14	34	2	6	0	0	0	221	68	0	289
Denturists	0	0	3	1	4	0	3	4	4	1	4	0	0	0	18	6	2	26
Medical & Treatment Services																		
Chiropractors	0	0	13	7	30	3	11	0	5	1	1	0	1	0	61	11	0	72
Emergency Medical Assistants	0	0	18	4	57	9	27	2	9	1	0	0	0	0	111	16	0	127
First Responders	61	1	315	18	322	7	167	2	30	0	1	0	2	0	898	28	0	926
Opticians	4	5	4	3	5	10	2	3	1	0	0	0	62	79	78	100	0	178
Pharmacists	3	10	55	74	38	55	49	34	14	4	6	0	3	1	168	178	0	346
Physicians (Directory Active)	0	0	46	24	157	88	169	58	104	12	48	8	0	0	524	190	0	714
Podiatrists	0	0	1	1	5	0	1	1	0	0	0	0	0	0	7	2	0	9
Nursing Services																		
Licensed Practical Nurses	1	15	2	58	9	95	7	149	4	52	0	3	0	3	23	375	0	398
Registered Nurses	2	52	21	430	29	731	28	1,021	8	519	0	42	0	0	88	2,795	0	2,883
Licensed Graduate Nurses	0	0	0	0	0	5	1	14	0	7	0	0	0	0	1	26	0	27
Registered Psychiatric Nurses	0	3	3	45	10	45	14	73	14	23	2	5	1	5	44	199	0	243
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	21	0	30	0	16	0	4	0	0	0	3	0	74	0	74
Psychological Services																		
Counsellors	0	0	2	1	9	18	15	34	5	15	0	1	5	3	36	72	0	108
Psychologists	0	0	1	2	6	11	18	14	19	6	3	1	0	0	47	34	0	81
Rehabilitation Services																		
Massage Therapists	1	5	19	30	10	37	6	11	1	3	0	0	0	0	37	86	0	123
Occupational Therapists	0	0	0	10	0	18	0	19	0	3	1	0	0	26	1	76	0	77
Physical Therapists	0	1	14	38	16	43	8	54	6	20	2	2	2	3	48	161	0	209
TOTAL	74	161	555	1,134	778	1,579	603	1,676	258	689	74	63	76	127	2,418	5,429	3	7,850

¹ Age and sex information are not available for all health groups.

Table 18
South Fraser Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	637	86.55	18	2.45	12	1.63	0	0.00	0	0.00	667	90.63	69	9.38	0	0.00	736	100.00
Dental Hygienists	105	51.47	15	7.35	18	8.82	30	14.71	14	6.86	182	89.22	22	10.78	0	0.00	204	100.00
Dentists	147	50.87	32	11.07	28	9.69	24	8.30	11	3.81	242	83.74	47	16.26	0	0.00	289	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	269	77.75	14	4.05	18	5.20	6	1.73	5	1.45	312	90.17	27	7.80	7	2.02	346	100.00
Physicians (Directory Active)	196	27.45	71	9.94	71	9.94	102	14.29	54	7.56	494	69.19	220	30.81	0	0.00	714	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	257	64.57	29	7.29	24	6.03	32	8.04	17	4.27	359	90.20	28	7.04	11	2.76	398	100.00
Registered Nurses	1,516	52.58	189	6.56	239	8.29	264	9.16	130	4.51	2,338	81.10	544	18.87	1	0.03	2,883	100.00
Registered Psychiatric Nurses	176	72.43	9	3.70	24	9.88	0	0.00	0	0.00	209	86.01	21	8.64	13	5.35	243	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	39	52.70	7	9.46	7	9.46	10	13.51	8	10.81	71	95.95	2	2.70	1	1.35	74	100.00
<i>Psychological Services</i>																		
Psychologists	33	40.74	6	7.41	2	2.47	11	13.58	5	6.17	57	70.37	24	29.63	0	0.00	81	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	101	82.11	0	0.00	0	0.00	20	16.26	0	0.00	121	98.37	1	0.81	1	0.81	123	100.00
Occupational Therapists	35	45.45	6	7.79	3	3.90	12	15.58	3	3.90	59	76.62	18	23.38	0	0.00	77	100.00
Physical Therapists	54	25.84	13	6.22	18	8.61	22	10.53	10	4.78	117	55.98	67	32.06	25	11.96	209	100.00
TOTAL	3,565	55.90	409	6.41	464	7.28	533	8.36	257	4.03	5,228	81.98	1,090	17.09	59	0.93	6,377	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 19
Simon Fraser Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	87	78	1.74	1.52	-5.11	-6.48
Health Service Executives (CCHSE & ACHE) ⁵	n/a	32	n/a	0.62	n/a	n/a
Dental Services						
Certified Dental Assistants	650	668	13.04	13.00	1.10	-0.12
Dental Hygienists	157	173	3.15	3.37	5.19	3.54
Dental Technicians ⁶	48	54	0.96	1.05	6.07	4.46
Dentists	300	323	6.02	6.28	3.10	1.81
Denturists	29	27	0.58	0.53	-3.66	-5.18
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	52	58	1.04	1.13	5.61	4.02
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	53	n/a	1.03	n/a	n/a
Medical Laboratory Technologists (CSMLS)	453	409	9.09	7.96	-4.79	-6.17
Medical Radiation Technologists (BCAMRT)	170	189	3.41	3.68	4.65	3.29
Medical & Treatment Services						
Chiropractors	72	75	1.44	1.46	2.36	0.60
Emergency Medical Assistants	101	119	2.03	2.32	9.36	7.56
First Responders	765	832	15.34	16.19	4.69	2.96
Midwives	2	5	0.04	0.10	*	*
Naturopathic Physicians	6	8	0.12	0.16	*	*
Opticians	190	238	3.81	4.63	16.20	13.87
Optometrists	30	41	0.60	0.80	13.80	12.37
Pharmacists	353	369	7.08	7.18	2.15	0.67
Physicians (Directory Active)	822	825	16.49	16.05	0.18	-1.33
Podiatrists	10	10	0.20	0.19	0.00	-1.51
Nursing Services						
Licensed Practical Nurses ⁷	n/a	424	n/a	8.25	n/a	n/a
Registered Nurses ⁸	3,838	3,804	76.98	74.01	-0.44	-1.95
Licensed Graduate Nurses	56	42	1.12	0.82	-13.40	-14.70
Registered Psychiatric Nurses	1,144	1,044	22.94	20.31	-4.13	-5.47
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	106	100	2.13	1.95	-2.87	-4.34
Psychological Services						
Counsellors (BCACC)	68	60	1.36	1.17	-5.61	-6.93
Psychologists	100	110	2.01	2.14	4.68	3.16
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	43	46	0.86	0.89	3.58	1.95
Massage Therapists ⁶	113	131	2.27	2.55	7.35	5.80
Occupational Therapists (BCSOT)	105	117	2.11	2.28	5.33	3.80
Physical Therapists ⁶	237	245	4.75	4.77	1.54	0.13
Prosthetists & Orthotists (CBCPO & CAPO)	7	7	0.14	0.14	*	*
TOTAL⁹	10,114	10,207	202.85	198.58	0.46	-1.06
Hospital Beds¹⁰						
Acute Care Beds	980	937	19.66	18.23	-1.48	-2.48
Extended Care Beds	980	958	19.66	18.64	-0.75	-1.76
TOTAL BEDS	1,960	1,895	39.31	36.87	-1.12	-2.12
Community Pharmacies	76	77	1.52	1.50	0.63	-0.83
Population	498,599	514,002	n/a	n/a	1.53	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 20
Simon Fraser Regional Health Board
Selected Health Personnel¹ by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown	
Dental Services																		
Certified Dental Assistants	0	54	0	263	0	255	0	82	0	11	0	0	0	2	0	667	1	668
Dental Hygienists	0	5	1	88	2	57	1	18	0	1	0	0	0	0	4	169	0	173
Dentists	0	0	41	30	80	37	64	15	38	2	16	0	0	0	239	84	0	323
Denturists	1	1	1	2	8	1	6	1	2	0	3	0	0	0	21	5	1	27
Medical & Treatment Services																		
Chiropractors	0	0	14	9	21	5	15	1	4	0	3	0	3	0	60	15	0	75
Emergency Medical Assistants	0	0	25	5	51	7	26	2	3	0	0	0	0	0	105	14	0	119
First Responders	13	0	237	17	281	16	222	9	33	3	1	0	0	0	787	45	0	832
Opticians	3	2	7	9	6	8	4	1	4	1	0	0	86	106	110	127	1	238
Pharmacists	6	5	46	86	33	64	43	45	16	8	10	0	5	2	159	210	0	369
Physicians (Directory Active)	0	1	63	41	166	101	190	58	120	13	62	7	2	1	603	222	0	825
Podiatrists	0	0	4	3	2	1	0	0	0	0	0	0	0	0	6	4	0	10
Nursing Services																		
Licensed Practical Nurses	0	6	3	56	11	125	17	142	4	48	0	3	0	9	35	389	0	424
Registered Nurses	1	71	32	600	39	1,118	64	1,219	28	584	2	46	0	0	166	3,638	0	3,804
Licensed Graduate Nurses	0	0	0	0	0	6	0	26	0	9	0	1	0	0	0	42	0	42
Registered Psychiatric Nurses	0	19	25	137	52	189	99	270	88	138	3	3	5	16	272	772	0	1,044
Nutrition & Dietary Services																		
Dietitians & Nutritionists	1	0	0	38	1	30	1	14	0	8	0	1	1	5	4	96	0	100
Psychological Services																		
Counsellors	0	0	1	0	9	11	5	18	3	6	0	0	4	3	22	38	0	60
Psychologists	0	0	1	5	13	20	20	23	12	11	3	2	0	0	49	61	0	110
Rehabilitation Services																		
Massage Therapists	0	5	27	40	14	19	5	15	2	3	0	1	0	0	48	83	0	131
Occupational Therapists	0	1	2	16	7	31	2	18	0	7	0	0	0	33	11	106	0	117
Physical Therapists	0	3	16	51	13	75	6	49	5	21	1	3	2	0	43	202	0	245
TOTAL	25	173	546	1,496	809	2,176	790	2,026	362	874	104	67	108	177	2,744	6,989	3	9,736

¹ Age and sex information are not available for all health groups.

Table 21
Simon Fraser Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	614	91.92	19	2.84	3	0.45	1	0.15	1	0.15	638	95.51	30	4.49	0	0.00	668	100.00
Dental Hygienists	85	49.13	15	8.67	16	9.25	28	16.18	19	10.98	163	94.22	10	5.78	0	0.00	173	100.00
Dentists	124	38.39	40	12.38	28	8.67	21	6.50	36	11.15	249	77.09	74	22.91	0	0.00	323	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	288	78.05	12	3.25	15	4.07	6	1.63	5	1.36	326	88.35	37	10.03	6	1.63	369	100.00
Physicians (Directory Active)	233	28.24	95	11.52	74	8.97	115	13.94	88	10.67	605	73.33	220	26.67	0	0.00	825	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	271	63.92	16	3.77	28	6.60	48	11.32	13	3.07	376	88.68	43	10.14	5	1.18	424	100.00
Registered Nurses	2,091	54.97	179	4.71	268	7.05	296	7.78	181	4.76	3,015	79.26	785	20.64	4	0.11	3,804	100.00
Registered Psychiatric Nurses	686	65.71	13	1.25	73	6.99	0	0.00	0	0.00	772	73.95	206	19.73	66	6.32	1,044	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	61	61.00	10	10.00	5	5.00	7	7.00	9	9.00	92	92.00	8	8.00	0	0.00	100	100.00
<i>Psychological Services</i>																		
Psychologists	57	51.82	6	5.45	6	5.45	7	6.36	8	7.27	84	76.36	26	23.64	0	0.00	110	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	117	89.31	0	0.00	0	0.00	12	9.16	0	0.00	129	98.47	1	0.76	1	0.76	131	100.00
Occupational Therapists	48	41.03	8	6.84	3	2.56	11	9.40	9	7.69	79	67.52	36	30.77	2	1.71	117	100.00
Physical Therapists	78	31.84	12	4.90	12	4.90	26	10.61	21	8.57	149	60.82	73	29.80	23	9.39	245	100.00
TOTAL	4,753	57.04	425	5.10	531	6.37	578	6.94	390	4.68	6,677	80.13	1,549	18.59	107	1.28	8,333	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 22
Central Vancouver Island Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	18	14	0.75	0.57	-11.36	-12.13
Health Service Executives (CCHSE & ACHE) ⁵	n/a	11	n/a	0.45	n/a	n/a
Dental Services						
Certified Dental Assistants	378	371	15.79	15.22	-0.74	-1.46
Dental Hygienists	87	89	3.63	3.65	1.19	0.24
Dental Technicians ⁶	15	14	0.63	0.57	-3.39	-4.26
Dentists	121	121	5.05	4.96	0.00	-0.74
Denturists	14	14	0.58	0.57	0.00	-0.94
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	17	19	0.71	0.78	5.72	4.77
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	14	n/a	0.57	n/a	n/a
Medical Laboratory Technologists (CSMLS)	152	133	6.35	5.46	-6.21	-7.02
Medical Radiation Technologists (BCAMRT)	72	75	3.01	3.08	1.76	0.98
Medical & Treatment Services						
Chiropractors	42	49	1.75	2.01	9.21	8.09
Emergency Medical Assistants	226	227	9.44	9.31	0.24	-0.74
First Responders	626	712	26.15	29.21	7.27	6.22
Midwives	4	5	0.17	0.21	*	*
Naturopathic Physicians	4	5	0.17	0.21	*	*
Opticians	56	58	2.34	2.38	2.37	1.14
Optometrists	15	15	0.63	0.62	0.00	-0.74
Pharmacists	139	145	5.81	5.95	2.05	1.17
Physicians (Directory Active)	393	406	16.42	16.66	1.64	0.73
Podiatrists	4	3	0.17	0.12	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	418	n/a	17.15	n/a	n/a
Registered Nurses ⁸	1,518	1,536	63.41	63.01	0.59	-0.31
Licensed Graduate Nurses	7	5	0.29	0.21	*	*
Registered Psychiatric Nurses	67	70	2.80	2.87	2.04	1.20
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	35	36	1.46	1.48	1.42	0.51
Psychological Services						
Counsellors (BCACC)	41	51	1.71	2.09	10.60	9.68
Psychologists	33	30	1.38	1.23	-4.47	-5.30
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	28	27	1.17	1.11	-1.88	-2.80
Massage Therapists ⁶	58	69	2.42	2.83	8.69	7.76
Occupational Therapists (BCSOT)	44	50	1.84	2.05	6.33	5.41
Physical Therapists ⁶	117	116	4.89	4.76	-0.40	-1.22
Prosthetists & Orthotists (CBCPO & CAPO)	3	3	0.13	0.12	*	*
TOTAL⁹	4,334	4,468	181.03	183.29	1.53	0.62
Hospital Beds¹⁰						
Acute Care Beds	504	483	21.05	19.81	-1.41	-2.00
Extended Care Beds	422	442	17.63	18.13	1.56	0.95
TOTAL BEDS	926	925	38.68	37.95	-0.04	-0.64
Community Pharmacies	45	50	1.88	2.05	5.19	4.28
Population	239,403	243,764	n/a	n/a	0.91	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 23
Central Vancouver Island Regional Health Board
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	38	0	116	1	152	0	59	0	5	0	0	0	0	1	370	371	
Dental Hygienists	0	0	2	32	0	32	1	20	0	2	0	0	0	0	3	86	89	
Dentists	0	1	14	5	32	9	29	4	21	0	6	0	0	0	102	19	121	
Denturists	0	0	3	0	4	0	3	2	2	0	0	0	0	0	12	2	14	
Medical & Treatment Services																		
Chiropractors	0	0	8	2	13	3	11	1	5	1	3	0	1	1	41	8	49	
Emergency Medical Assistants	14	9	55	24	40	22	41	13	7	2	0	0	0	0	157	70	227	
First Responders	44	7	189	25	222	24	138	21	28	4	3	2	4	1	628	84	712	
Opticians	0	0	1	5	1	1	3	2	1	0	0	0	16	28	22	36	58	
Pharmacists	0	2	19	25	20	22	18	18	12	4	3	0	1	1	73	72	145	
Physicians (Directory Active)	0	0	19	13	100	47	104	19	62	10	30	2	0	0	315	91	406	
Podiatrists	0	0	0	0	1	0	2	0	0	0	0	0	0	0	3	0	3	
Nursing Services																		
Licensed Practical Nurses	0	10	4	45	4	126	7	162	3	53	0	1	0	3	18	400	418	
Registered Nurses	0	16	5	155	20	421	10	580	4	296	0	29	0	0	39	1,497	1,536	
Licensed Graduate Nurses	0	0	0	0	0	0	0	1	0	4	0	0	0	0	0	5	5	
Registered Psychiatric Nurses	0	0	0	7	3	17	6	29	2	6	0	0	0	0	11	59	70	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	6	0	14	0	11	0	4	0	0	0	1	0	36	36	
Psychological Services																		
Counsellors	0	0	0	2	2	7	5	19	5	4	1	1	1	4	14	37	51	
Psychologists	0	0	0	0	1	4	7	9	3	3	3	0	0	0	14	16	30	
Rehabilitation Services																		
Massage Therapists	1	2	3	14	8	20	6	15	0	0	0	0	0	0	18	51	69	
Occupational Therapists	0	0	0	6	1	19	0	14	0	2	0	1	0	7	1	49	50	
Physical Therapists	0	0	3	14	8	25	3	42	4	15	1	0	0	1	19	97	116	
TOTAL	59	85	325	496	481	965	394	1,041	159	415	50	36	23	47	1,491	3,085	4,576	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 24
Central Vancouver Island Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	361	97.30	9	2.43	0	0.00	0	0.00	0	0.00	370	99.73	1	0.27	0	0.00	371	100.00
Dental Hygienists	43	48.31	19	21.35	6	6.74	9	10.11	7	7.87	84	94.38	5	5.62	0	0.00	89	100.00
Dentists	47	38.84	31	25.62	13	10.74	10	8.26	9	7.44	110	90.91	11	9.09	0	0.00	121	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	110	75.86	3	2.07	21	14.48	4	2.76	0	0.00	138	95.17	6	4.14	1	0.69	145	100.00
Physicians (Directory Active)	113	27.83	68	16.75	38	9.36	52	12.81	21	5.17	292	71.92	114	28.08	0	0.00	406	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	348	83.25	16	3.83	17	4.07	22	5.26	6	1.44	409	97.85	6	1.44	3	0.72	418	100.00
Registered Nurses	824	53.65	156	10.16	125	8.14	199	12.96	71	4.62	1,375	89.52	161	10.48	0	0.00	1,536	100.00
Registered Psychiatric Nurses	45	64.29	1	1.43	11	15.71	0	0.00	0	0.00	57	81.43	5	7.14	8	11.43	70	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	13	36.11	9	25.00	4	11.11	5	13.89	4	11.11	35	97.22	1	2.78	0	0.00	36	100.00
<i>Psychological Services</i>																		
Psychologists	10	33.33	2	6.67	2	6.67	9	30.00	2	6.67	25	83.33	5	16.67	0	0.00	30	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	43	62.32	1	1.45	0	0.00	22	31.88	0	0.00	66	95.65	1	1.45	2	2.90	69	100.00
Occupational Therapists	17	34.00	10	20.00	3	6.00	6	12.00	4	8.00	40	80.00	9	18.00	1	2.00	50	100.00
Physical Therapists	26	22.41	13	11.21	9	7.76	12	10.34	6	5.17	66	56.90	41	35.34	9	7.76	116	100.00
TOTAL	2,000	57.85	338	9.78	249	7.20	350	10.12	130	3.76	3,067	88.72	366	10.59	24	0.69	3,457	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 25
Northern Interior Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	9	8	0.68	0.60	*	*
Health Service Executives (CCHSE & ACHE) ⁵	n/a	4	n/a	0.30	n/a	n/a
Dental Services						
Certified Dental Assistants	207	182	15.67	13.64	-5.02	-5.40
Dental Hygienists	61	70	4.62	5.25	7.44	6.88
Dental Technicians ⁶	10	9	0.76	0.67	-5.13	-5.61
Dentists	57	58	4.31	4.35	0.72	0.30
Denturists	5	4	0.38	0.30	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	2	3	0.15	0.22	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	5	n/a	0.37	n/a	n/a
Medical Laboratory Technologists (CSMLS)	91	74	6.89	5.54	-9.45	-9.89
Medical Radiation Technologists (BCAMRT)	37	35	2.80	2.62	-2.35	-2.78
Medical & Treatment Services						
Chiropractors	8	11	0.61	0.82	*	*
Emergency Medical Assistants	192	198	14.53	14.84	1.69	1.13
First Responders	252	290	19.07	21.73	7.96	7.37
Midwives	1	1	0.07	0.07	*	*
Naturopathic Physicians	3	3	0.23	0.22	*	*
Opticians	22	25	1.67	1.87	8.90	8.16
Optometrists	10	8	0.76	0.60	-8.82	-9.20
Pharmacists	69	71	5.22	5.32	1.38	0.89
Physicians (Directory Active)	195	192	14.76	14.39	-0.77	-1.27
Podiatrists	1	1	0.08	0.07	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	156	n/a	11.69	n/a	n/a
Registered Nurses ⁸	928	872	70.24	65.34	-3.06	-3.55
Licensed Graduate Nurses	3	3	0.23	0.22	*	*
Registered Psychiatric Nurses	31	33	2.35	2.47	2.93	2.45
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	14	16	1.06	1.20	6.90	6.37
Psychological Services						
Counsellors (BCACC)	10	11	0.76	0.82	4.50	4.01
Psychologists	12	13	0.91	0.97	3.92	3.41
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	10	10	0.76	0.75	0.00	-0.53
Massage Therapists ⁶	10	15	0.76	1.12	21.49	20.90
Occupational Therapists (BCSOT)	12	10	0.91	0.75	-8.38	-8.82
Physical Therapists ⁶	49	51	3.71	3.82	1.86	1.39
Prosthetists & Orthotists (CBCPO & CAPO)	2	2	0.15	0.15	*	*
TOTAL⁹	2,313	2,279	175.07	170.77	-0.74	-1.24
Hospital Beds¹⁰						
Acute Care Beds	295	287	22.33	21.50	-0.91	-1.25
Extended Care Beds	86	86	6.51	6.44	0.00	-0.34
TOTAL BEDS	381	373	28.84	27.95	-0.70	-1.04
Community Pharmacies	23	23	1.74	1.72	0.00	-0.48
Population	132,115	133,458	n/a	n/a	0.51	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 26
Northern Interior Regional Health Board
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Dental Services																	
Certified Dental Assistants	0	18	0	59	0	73	0	31	0	1	0	0	0	0	0	182	182
Dental Hygienists	0	2	2	42	0	16	0	8	0	0	0	0	0	0	2	68	70
Dentists	0	0	6	5	15	3	17	3	7	0	2	0	0	0	47	11	58
Denturists	1	0	0	0	2	0	0	1	0	0	0	0	0	0	3	1	4
Medical & Treatment Services																	
Chiropractors	0	0	2	1	3	1	4	0	0	0	0	0	0	0	9	2	11
Emergency Medical Assistants	9	6	45	21	58	16	19	11	7	5	0	0	1	138	60	198	
First Responders	26	8	60	10	88	21	49	5	20	2	0	0	1	244	46	290	
Opticians	1	0	0	3	0	3	0	0	0	0	0	0	6	12	7	18	25
Pharmacists	1	2	13	17	11	8	6	5	5	1	1	0	0	1	37	34	71
Physicians (Directory Active)	0	0	23	13	53	24	39	7	20	1	11	0	0	1	146	46	192
Podiatrists	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
Nursing Services																	
Licensed Practical Nurses	0	2	2	20	3	50	1	56	1	20	0	1	0	0	7	149	156
Registered Nurses	0	21	4	172	15	264	8	285	1	98	0	4	0	0	28	844	872
Licensed Graduate Nurses	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	3
Registered Psychiatric Nurses	0	0	1	6	2	5	1	15	0	2	0	0	0	1	4	29	33
Nutrition & Dietary Services																	
Dietitians & Nutritionists	0	0	0	6	0	3	0	5	0	1	0	0	0	1	0	16	16
Psychological Services																	
Counsellors	0	0	0	1	1	1	1	4	0	3	0	0	0	0	2	9	11
Psychologists	0	0	0	0	1	2	6	2	1	0	1	0	0	0	9	4	13
Rehabilitation Services																	
Massage Therapists	0	0	1	6	2	1	1	4	0	0	0	0	0	0	4	11	15
Occupational Therapists	0	0	0	3	0	3	1	1	0	0	0	0	0	2	1	9	10
Physical Therapists	0	0	2	13	2	11	0	18	0	4	0	0	0	1	4	47	51
TOTAL	38	59	161	398	257	505	153	464	62	138	15	5	7	20	693	1,589	2,282

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 27
Northern Interior Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	175	96.15	2	1.10	1	0.55	1	0.55	0	0.00	179	98.35	3	1.65	0	0.00	182	100.00
Dental Hygienists	58	82.86	3	4.29	3	4.29	0	0.00	0	0.00	64	91.43	6	8.57	0	0.00	70	100.00
Dentists	26	44.83	4	6.90	2	3.45	5	8.62	8	13.79	45	77.59	13	22.41	0	0.00	58	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	54	76.06	3	4.23	11	15.49	0	0.00	0	0.00	68	95.77	2	2.82	1	1.41	71	100.00
Physicians (Directory Active)	42	21.88	23	11.98	10	5.21	24	12.50	17	8.85	116	60.42	76	39.58	0	0.00	192	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	103	66.03	8	5.13	14	8.97	15	9.62	7	4.49	147	94.23	6	3.85	3	1.92	156	100.00
Registered Nurses	526	60.32	77	8.83	73	8.37	66	7.57	58	6.65	800	91.74	72	8.26	0	0.00	872	100.00
Registered Psychiatric Nurses	20	60.61	2	6.06	4	12.12	0	0.00	0	0.00	26	78.79	1	3.03	6	18.18	33	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	7	43.75	3	18.75	0	0.00	1	6.25	5	31.25	16	100.00	0	0.00	0	0.00	16	100.00
<i>Psychological Services</i>																		
Psychologists	2	15.38	3	23.08	1	7.69	1	7.69	1	7.69	8	61.54	5	38.46	0	0.00	13	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	12	80.00	0	0.00	0	0.00	3	20.00	0	0.00	15	100.00	0	0.00	0	0.00	15	100.00
Occupational Therapists	3	30.00	4	40.00	1	10.00	1	10.00	0	0.00	9	90.00	1	10.00	0	0.00	10	100.00
Physical Therapists	15	29.41	6	11.76	3	5.88	5	9.80	3	5.88	32	62.75	11	21.57	8	15.69	51	100.00
TOTAL	1,043	59.98	138	7.94	123	7.07	122	7.02	99	5.69	1,525	87.69	196	11.27	18	1.04	1,739	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 28
Vancouver/Richmond Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	63	47	0.88	0.64	-13.12	-14.29
Health Service Executives (CCHSE & ACHE) ⁵	n/a	99	n/a	1.35	n/a	n/a
Dental Services						
Certified Dental Assistants	565	589	7.90	8.01	1.68	0.54
Dental Hygienists	323	348	4.52	4.73	3.97	2.45
Dental Technicians ⁶	223	215	3.12	2.92	-1.81	-3.19
Dentists	731	852	10.22	11.58	6.54	5.31
Denturists	51	42	0.71	0.57	-9.63	-10.95
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	46	44	0.64	0.60	-2.20	-3.57
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	60	n/a	0.82	n/a	n/a
Medical Laboratory Technologists (CSMLS)	578	506	8.08	6.88	-6.19	-7.45
Medical Radiation Technologists (BCAMRT)	455	464	6.36	6.31	0.84	-0.37
Medical & Treatment Services						
Chiropractors	108	128	1.51	1.74	10.20	8.43
Emergency Medical Assistants	261	253	3.65	3.44	-1.68	-3.19
First Responders	1,060	1,080	14.83	14.68	1.02	-0.52
Midwives	12	11	0.17	0.15	-8.33	-9.51
Naturopathic Physicians	27	32	0.38	0.44	11.99	9.91
Opticians	304	322	4.25	4.38	3.91	1.97
Optometrists	59	67	0.83	0.91	5.40	4.18
Pharmacists	799	824	11.17	11.20	1.49	0.12
Physicians (Directory Active)	3,281	3,321	45.89	45.15	0.61	-0.80
Podiatrists	24	28	0.34	0.38	8.01	6.50
Nursing Services						
Licensed Practical Nurses ⁷	n/a	792	n/a	10.77	n/a	n/a
Registered Nurses ⁸	8,410	8,481	117.62	115.31	0.42	-0.99
Licensed Graduate Nurses	121	82	1.69	1.11	-17.68	-18.83
Registered Psychiatric Nurses	312	332	4.36	4.51	2.91	1.58
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	256	252	3.58	3.43	-0.78	-2.17
Psychological Services						
Counsellors (BCACC)	218	232	3.05	3.15	2.91	1.58
Psychologists	339	362	4.74	4.92	3.20	1.81
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	129	110	1.80	1.50	-7.98	-9.32
Massage Therapists ⁶	342	365	4.78	4.96	3.17	1.78
Occupational Therapists (BCSOT)	340	359	4.76	4.88	2.64	1.26
Physical Therapists ⁶	671	660	9.38	8.97	-0.76	-2.04
Prosthetists & Orthotists (CBCPO & CAPO)	25	24	0.35	0.33	-1.73	-2.92
TOTAL⁹	20,133	20,432	281.58	277.81	0.74	-0.67
Hospital Beds¹⁰						
Acute Care Beds	2,525	2,410	35.31	32.77	-1.54	-2.46
Extended Care Beds	1,794	1,866	25.09	25.37	1.32	0.37
TOTAL BEDS	4,319	4,276	60.41	58.14	-0.33	-1.27
Community Pharmacies	143	149	2.00	2.03	1.99	0.62
Population	715,000	735,471	n/a	n/a	1.42	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 29
Vancouver/Richmond Regional Health Board
Selected Health Personnel¹ by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown	
Dental Services																		
Certified Dental Assistants	0	55	0	232	0	205	0	88	0	9	0	0	0	0	0	589	0	589
Dental Hygienists	1	9	11	125	9	121	3	62	1	5	0	0	0	1	25	323	0	348
Dentists	0	0	113	91	176	87	179	44	104	7	41	4	5	1	618	234	0	852
Denturists	1	0	0	3	13	0	10	0	5	2	4	0	0	2	33	7	2	42
Medical & Treatment Services																		
Chiropractors	0	0	32	18	35	7	22	4	5	0	4	0	0	1	98	30	0	128
Emergency Medical Assistants	1	0	44	17	113	22	47	3	5	0	0	0	1	0	211	42	0	253
First Responders	9	2	235	26	378	10	365	1	52	0	0	0	1	1	1,040	40	0	1,080
Opticians	1	2	2	9	12	5	7	7	4	1	1	0	149	121	176	145	1	322
Pharmacists	11	25	102	183	90	150	99	106	17	25	5	1	6	4	330	494	0	824
Physicians (Directory Active)	1	4	452	347	555	367	641	248	391	75	207	26	2	5	2,249	1,072	0	3,321
Podiatrists	0	0	7	2	5	1	10	0	2	0	1	0	0	0	25	3	0	28
Nursing Services																		
Licensed Practical Nurses	4	17	18	127	38	182	43	216	24	104	1	7	2	9	130	662	0	792
Registered Nurses	16	192	104	1,825	163	2,552	103	2,323	36	1,074	0	93	0	0	422	8,059	0	8,481
Licensed Graduate Nurses	0	0	0	0	0	11	0	51	0	16	0	4	0	0	0	82	0	82
Registered Psychiatric Nurses	0	4	8	72	21	86	26	65	14	25	0	4	2	5	71	261	0	332
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	4	2	71	2	92	0	66	0	4	0	0	0	11	4	248	0	252
Psychological Services																		
Counsellors	0	0	1	3	13	47	22	89	7	36	1	5	3	5	47	185	0	232
Psychologists	0	0	2	14	35	49	60	97	44	45	10	6	0	0	151	211	0	362
Rehabilitation Services																		
Massage Therapists	0	2	36	117	48	85	16	50	2	7	2	0	0	0	104	261	0	365
Occupational Therapists	0	0	4	60	13	97	1	59	0	27	0	0	0	98	18	341	0	359
Physical Therapists	0	2	47	135	41	159	22	173	5	57	2	11	0	6	117	543	0	660
TOTAL	45	318	1,220	3,477	1,760	4,335	1,676	3,752	718	1,519	279	161	171	270	5,869	13,832	3	19,704

¹ Age and sex information are not available for all health groups.

Table 30
Vancouver/Richmond Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	535	90.83	21	3.57	2	0.34	1	0.17	1	0.17	560	95.08	29	4.92	0	0.00	589	100.00
Dental Hygienists	151	43.39	25	7.18	31	8.91	64	18.39	44	12.64	315	90.52	33	9.48	0	0.00	348	100.00
Dentists	318	37.32	61	7.16	75	8.80	68	7.98	76	8.92	598	70.19	253	29.69	1	0.12	852	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	652	79.13	24	2.91	28	3.40	23	2.79	16	1.94	743	90.17	63	7.65	18	2.18	824	100.00
Physicians (Directory Active)	965	29.06	330	9.94	236	7.11	583	17.55	282	8.49	2,396	72.15	925	27.85	0	0.00	3,321	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	502	63.38	30	3.79	39	4.92	52	6.57	26	3.28	649	81.94	106	13.38	37	4.67	792	100.00
Registered Nurses	4,366	51.48	479	5.65	446	5.26	808	9.53	494	5.82	6,593	77.74	1,884	22.21	4	0.05	8,481	100.00
Registered Psychiatric Nurses	230	69.28	8	2.41	33	9.94	0	0.00	0	0.00	271	81.63	32	9.64	29	8.73	332	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	131	51.98	11	4.37	22	8.73	30	11.90	31	12.30	225	89.29	27	10.71	0	0.00	252	100.00
<i>Psychological Services</i>																		
Psychologists	147	40.61	28	7.73	12	3.31	56	15.47	8	2.21	251	69.34	111	30.66	0	0.00	362	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	287	78.63	0	0.00	2	0.55	67	18.36	0	0.00	356	97.53	5	1.37	4	1.10	365	100.00
Occupational Therapists	151	42.06	18	5.01	15	4.18	47	13.09	32	8.91	263	73.26	89	24.79	7	1.95	359	100.00
Physical Therapists	190	28.79	30	4.55	30	4.55	78	11.82	42	6.36	370	56.06	240	36.36	50	7.58	660	100.00
TOTAL	8,625	49.18	1,065	6.07	971	5.54	1,877	10.70	1,052	6.00	13,590	77.49	3,797	21.65	150	0.86	17,537	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 31
North Shore Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	14	11	0.78	0.61	-10.93	-11.53
Health Service Executives (CCHSE & ACHE) ⁵	n/a	12	n/a	0.66	n/a	n/a
Dental Services						
Certified Dental Assistants	172	179	9.64	9.89	1.61	1.04
Dental Hygienists	122	123	6.84	6.80	0.43	-0.31
Dental Technicians ⁶	23	24	1.29	1.33	2.15	1.43
Dentists	159	196	8.91	10.83	9.04	8.41
Denturists	8	9	0.45	0.50	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	16	15	0.90	0.83	-3.18	-3.85
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	26	n/a	1.44	n/a	n/a
Medical Laboratory Technologists (CSMLS)	147	129	8.24	7.13	-6.08	-6.71
Medical Radiation Technologists (BCAMRT)	54	55	3.03	3.04	0.79	0.18
Medical & Treatment Services						
Chiropractors	36	31	2.02	1.71	-8.19	-8.93
Emergency Medical Assistants	82	85	4.60	4.70	1.98	1.20
First Responders	348	323	19.51	17.85	-3.98	-4.72
Midwives	3	2	0.17	0.11	*	*
Naturopathic Physicians	9	6	0.50	0.33	*	*
Opticians	53	51	2.97	2.82	-2.53	-3.44
Optometrists	13	16	0.73	0.88	8.97	8.34
Pharmacists	151	152	8.47	8.40	0.32	-0.36
Physicians (Directory Active)	374	388	20.97	21.45	1.85	1.14
Podiatrists	5	5	0.28	0.28	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	152	n/a	8.40	n/a	n/a
Registered Nurses ⁸	1,272	1,241	71.31	68.60	-1.23	-1.92
Licensed Graduate Nurses	38	30	2.13	1.66	-11.15	-11.77
Registered Psychiatric Nurses	65	73	3.64	4.04	5.50	4.82
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	39	38	2.19	2.10	-1.29	-1.98
Psychological Services						
Counsellors (BCACC)	59	68	3.31	3.76	6.77	6.08
Psychologists	53	52	2.97	2.87	-0.91	-1.58
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	38	40	2.13	2.21	2.71	1.96
Massage Therapists ⁶	93	91	5.21	5.03	-1.04	-1.70
Occupational Therapists (BCSOT)	31	37	1.74	2.05	8.86	8.13
Physical Therapists ⁶	140	138	7.85	7.63	-0.66	-1.31
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	3,617	3,608	202.77	199.44	-0.12	-0.83
Hospital Beds¹⁰						
Acute Care Beds	354	348	19.85	19.24	-0.57	-1.03
Extended Care Beds	294	294	16.48	16.25	0.00	-0.47
TOTAL BEDS	648	642	36.33	35.49	-0.31	-0.78
Community Pharmacies	28	30	1.57	1.66	3.37	2.67
Population	178,376	180,906	n/a	n/a	0.71	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 32
North Shore Regional Health Board
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	9	0	62	0	79	0	23	0	5	0	1	0	0	0	179	179	
Dental Hygienists	0	1	0	31	0	45	0	39	0	7	0	0	0	0	0	123	123	
Dentists	2	0	17	12	39	29	33	13	36	2	13	0	0	0	140	56	196	
Denturists	0	0	0	0	2	1	0	2	2	0	1	0	0	1	5	4	9	
Medical & Treatment Services																		
Chiropractors	0	0	6	6	14	1	3	0	1	0	0	0	0	0	24	7	31	
Emergency Medical Assistants	0	0	21	11	33	4	12	2	2	0	0	0	0	0	68	17	85	
First Responders	6	1	67	7	108	1	115	4	14	0	0	0	0	0	310	13	323	
Opticians	0	0	2	3	1	0	1	0	0	1	0	0	21	22	25	26	51	
Pharmacists	0	3	12	38	12	29	17	20	10	7	1	0	1	2	53	99	152	
Physicians (Directory Active)	0	0	17	19	57	61	81	23	64	12	50	4	0	0	269	119	388	
Podiatrists	0	0	1	0	2	0	2	0	0	0	0	0	0	0	5	0	5	
Nursing Services																		
Licensed Practical Nurses	0	2	3	36	4	44	2	42	1	14	0	0	1	3	11	141	152	
Registered Nurses	0	23	7	212	13	322	6	336	2	299	0	21	0	0	28	1,213	1,241	
Licensed Graduate Nurses	0	0	0	0	0	8	2	14	0	6	0	0	0	0	2	28	30	
Registered Psychiatric Nurses	0	0	1	17	6	21	1	17	1	5	1	1	0	2	10	63	73	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	7	0	10	0	15	0	3	0	1	0	2	0	38	38	
Psychological Services																		
Counsellors	0	0	0	3	1	12	7	25	3	11	0	3	1	2	12	56	68	
Psychologists	0	0	0	0	5	0	15	9	11	6	5	1	0	0	36	16	52	
Rehabilitation Services																		
Massage Therapists	0	2	5	28	8	26	5	13	1	3	0	0	0	0	19	72	91	
Occupational Therapists	0	0	0	5	0	13	0	8	0	3	0	1	0	7	0	37	37	
Physical Therapists	0	1	7	19	5	34	3	34	1	28	1	5	0	0	17	121	138	
TOTAL	8	42	166	516	310	740	305	639	149	412	72	38	24	41	1,034	2,428	3,462	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 33
North Shore Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	167	93.30	4	2.23	2	1.12	1	0.56	0	0.00	174	97.21	5	2.79	0	0.00	179	100.00
Dental Hygienists	56	45.53	9	7.32	12	9.76	18	14.63	14	11.38	109	88.62	14	11.38	0	0.00	123	100.00
Dentists	70	35.71	30	15.31	16	8.16	13	6.63	15	7.65	144	73.47	52	26.53	0	0.00	196	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	122	80.26	5	3.29	6	3.95	1	0.66	0	0.00	134	88.16	12	7.89	6	3.95	152	100.00
Physicians (Directory Active)	133	34.28	52	13.40	19	4.90	57	14.69	29	7.47	290	74.74	98	25.26	0	0.00	388	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	115	75.66	8	5.26	5	3.29	9	5.92	6	3.95	143	94.08	6	3.95	3	1.97	152	100.00
Registered Nurses	615	49.56	68	5.48	96	7.74	153	12.33	79	6.37	1,011	81.47	229	18.45	1	0.08	1,241	100.00
Registered Psychiatric Nurses	60	82.19	2	2.74	4	5.48	0	0.00	0	0.00	66	90.41	2	2.74	5	6.85	73	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	19	50.00	4	10.53	3	7.89	5	13.16	6	15.79	37	97.37	1	2.63	0	0.00	38	100.00
<i>Psychological Services</i>																		
Psychologists	21	40.38	5	9.62	4	7.69	5	9.62	2	3.85	37	71.15	15	28.85	0	0.00	52	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	68	74.73	0	0.00	0	0.00	22	24.18	0	0.00	90	98.90	1	1.10	0	0.00	91	100.00
Occupational Therapists	18	48.65	0	0.00	1	2.70	7	18.92	1	2.70	27	72.97	10	27.03	0	0.00	37	100.00
Physical Therapists	28	20.29	3	2.17	9	6.52	24	17.39	11	7.97	75	54.35	53	38.41	10	7.25	138	100.00
TOTAL	1,492	52.17	190	6.64	177	6.19	315	11.01	163	5.70	2,337	81.71	498	17.41	25	0.87	2,860	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 34
Capital Regional Health Board
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	27	20	0.81	0.60	-13.42	-13.56
Health Service Executives (CCHSE & ACHE) ⁵	n/a	39	n/a	1.16	n/a	n/a
Dental Services						
Certified Dental Assistants	450	450	13.45	13.40	0.00	-0.14
Dental Hygienists	206	220	6.16	6.55	3.49	3.30
Dental Technicians ⁶	45	42	1.35	1.25	-3.39	-3.56
Dentists	230	230	6.88	6.85	0.00	-0.15
Denturists	29	31	0.87	0.92	3.54	3.35
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	27	26	0.81	0.77	-1.87	-2.04
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	39	n/a	1.16	n/a	n/a
Medical Laboratory Technologists (CSMLS)	260	243	7.77	7.24	-3.19	-3.36
Medical Radiation Technologists (BCAMRT)	161	167	4.81	4.97	1.58	1.43
Medical & Treatment Services						
Chiropractors	90	96	2.69	2.86	3.76	3.55
Emergency Medical Assistants	201	206	6.01	6.14	1.35	1.15
First Responders	953	892	28.49	26.57	-3.54	-3.73
Midwives	11	14	0.33	0.42	27.27	27.14
Naturopathic Physicians	17	20	0.51	0.60	11.44	11.18
Opticians	107	117	3.20	3.48	6.14	5.89
Optometrists	33	31	0.99	0.92	-2.55	-2.70
Pharmacists	263	283	7.86	8.43	3.58	3.40
Physicians (Directory Active)	938	954	28.04	28.42	0.85	0.67
Podiatrists	12	12	0.36	0.36	0.00	-0.18
Nursing Services						
Licensed Practical Nurses ⁷	n/a	496	n/a	14.77	n/a	n/a
Registered Nurses ⁸	3,891	3,820	116.31	113.78	-0.92	-1.09
Licensed Graduate Nurses	17	15	0.51	0.45	-6.07	-6.23
Registered Psychiatric Nurses	141	148	4.21	4.41	2.26	2.09
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	88	86	2.63	2.56	-1.14	-1.32
Psychological Services						
Counsellors (BCACC)	130	131	3.89	3.90	0.35	0.19
Psychologists	153	172	4.57	5.12	5.78	5.60
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	54	50	1.61	1.49	-3.94	-4.11
Massage Therapists ⁶	141	148	4.21	4.41	2.35	2.18
Occupational Therapists (BCSOT)	92	102	2.75	3.04	5.08	4.90
Physical Therapists ⁶	276	281	8.25	8.37	0.83	0.67
Prosthetists & Orthotists (CBCPO & CAPO)	11	12	0.33	0.36	3.80	3.64
TOTAL⁹	9,054	9,019	270.64	268.64	-0.19	-0.37
Hospital Beds¹⁰						
Acute Care Beds	1,080	1,028	32.28	30.62	-1.63	-1.75
Extended Care Beds	1,287	1,353	38.47	40.30	1.68	1.56
TOTAL BEDS	2,367	2,381	70.75	70.92	0.20	0.08
Community Pharmacies	64	73	1.91	2.17	6.52	6.34
Population	334,541	335,731	n/a	n/a	0.18	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 35
Capital Regional Health Board
Selected Health Personnel¹ by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown	
Dental Services																		
Certified Dental Assistants	0	62	1	179	0	146	0	56	0	5	0	0	0	1	1	449	0	450
Dental Hygienists	0	6	1	78	5	77	2	46	1	4	0	0	0	0	9	211	0	220
Dentists	0	0	20	15	47	8	84	5	44	1	6	0	0	0	201	29	0	230
Denturists	0	0	4	1	9	2	7	1	2	0	2	2	1	0	25	6	0	31
Medical & Treatment Services																		
Chiropractors	0	0	18	14	19	8	22	5	6	0	3	0	1	0	69	27	0	96
Emergency Medical Assistants	11	4	43	7	69	14	41	11	3	2	1	0	0	168	38	0	206	
First Responders	40	3	200	46	305	29	215	17	19	4	6	3	5	0	790	102	0	892
Opticians	1	2	6	10	5	7	3	4	1	1	0	0	33	44	49	68	0	117
Pharmacists	4	2	35	32	32	53	43	43	22	9	5	0	1	2	142	141	0	283
Physicians (Directory Active)	0	1	53	45	154	92	250	65	175	27	81	5	4	2	717	237	0	954
Podiatrists	0	0	0	1	6	0	3	0	1	0	1	0	0	0	11	1	0	12
Nursing Services																		
Licensed Practical Nurses	1	8	3	49	16	128	19	172	11	73	1	7	0	8	51	445	0	496
Registered Nurses	2	45	26	444	68	1,061	62	1,328	17	685	0	82	0	0	175	3,645	0	3,820
Licensed Graduate Nurses	0	0	0	0	0	1	0	10	0	4	0	0	0	0	0	15	0	15
Registered Psychiatric Nurses	0	0	0	9	7	30	19	50	10	21	0	1	0	1	36	112	0	148
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	12	1	35	0	27	0	8	0	0	1	2	2	84	0	86
Psychological Services																		
Counsellors	0	0	0	1	6	14	23	53	9	12	1	2	5	5	44	87	0	131
Psychologists	0	0	0	3	3	18	34	46	31	26	6	5	0	0	74	98	0	172
Rehabilitation Services																		
Massage Therapists	0	0	6	32	10	39	14	36	6	4	1	0	0	0	37	111	0	148
Occupational Therapists	0	0	0	13	3	26	2	22	0	12	0	0	0	24	5	97	0	102
Physical Therapists	0	0	7	36	15	64	12	86	6	39	4	9	1	1	45	235	1	281
TOTAL	59	133	423	1,027	780	1,852	855	2,083	364	937	118	116	52	90	2,651	6,238	1	8,890

¹ Age and sex information are not available for all health groups.

Table 36
Capital Regional Health Board
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	429	95.33	14	3.11	4	0.89	0	0.00	1	0.22	448	99.56	1	0.22	1	0.22	450	100.00
Dental Hygienists	125	56.82	17	7.73	21	9.55	33	15.00	14	6.36	210	95.45	10	4.55	0	0.00	220	100.00
Dentists	59	25.65	63	27.39	26	11.30	32	13.91	25	10.87	205	89.13	25	10.87	0	0.00	230	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	186	65.72	24	8.48	42	14.84	3	1.06	2	0.71	257	90.81	17	6.01	9	3.18	283	100.00
Physicians (Directory Active)	208	21.80	146	15.30	81	8.49	203	21.28	89	9.33	727	76.21	227	23.79	0	0.00	954	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	326	65.73	31	6.25	31	6.25	54	10.89	27	5.44	469	94.56	12	2.42	15	3.02	496	100.00
Registered Nurses	2,135	55.89	351	9.19	324	8.48	487	12.75	190	4.97	3,487	91.28	333	8.72	0	0.00	3,820	100.00
Registered Psychiatric Nurses	71	47.97	12	8.11	39	26.35	0	0.00	0	0.00	122	82.43	16	10.81	10	6.76	148	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	24	27.91	14	16.28	9	10.47	12	13.95	19	22.09	78	90.70	7	8.14	1	1.16	86	100.00
<i>Psychological Services</i>																		
Psychologists	62	36.05	23	13.37	9	5.23	27	15.70	3	1.74	124	72.09	48	27.91	0	0.00	172	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	73	49.32	1	0.68	0	0.00	65	43.92	1	0.68	140	94.59	5	3.38	3	2.03	148	100.00
Occupational Therapists	34	33.33	11	10.78	3	2.94	22	21.57	10	9.80	80	78.43	20	19.61	2	1.96	102	100.00
Physical Therapists	50	17.79	42	14.95	28	9.96	49	17.44	19	6.76	188	66.90	71	25.27	22	7.83	281	100.00
TOTAL	3,782	51.18	749	10.14	617	8.35	987	13.36	400	5.41	6,535	88.43	792	10.72	63	0.85	7,390	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 37
East Kootenay Community Health Services Society
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	10	9	1.24	1.11	-4.93	-5.27
Health Service Executives (CCHSE & ACHE) ⁵	n/a	5	n/a	0.62	n/a	n/a
Dental Services						
Certified Dental Assistants	101	104	12.56	12.84	1.18	0.88
Dental Hygienists	27	29	3.36	3.58	3.80	3.40
Dental Technicians ⁶	1	0	0.12	0.00	*	*
Dentists	36	38	4.48	4.69	2.26	1.95
Denturists	3	3	0.37	0.37	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	2	2	0.25	0.25	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	5	n/a	0.62	n/a	n/a
Medical Laboratory Technologists (CSMLS)	53	57	6.59	7.04	3.55	3.19
Medical Radiation Technologists (BCAMRT)	37	36	4.60	4.44	-1.17	-1.48
Medical & Treatment Services						
Chiropractors	14	16	1.74	1.98	7.93	7.48
Emergency Medical Assistants	138	135	17.16	16.67	-1.19	-1.59
First Responders	95	113	11.81	13.95	9.93	9.49
Midwives	0	0	0.00	0.00	*	*
Naturopathic Physicians	2	2	0.25	0.25	*	*
Opticians	7	7	0.87	0.86	*	*
Optometrists	11	12	1.37	1.48	3.67	3.35
Pharmacists	39	49	4.85	6.05	11.58	11.19
Physicians (Directory Active)	124	130	15.42	16.05	2.39	2.01
Podiatrists	0	0	0.00	0.00	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	166	n/a	20.49	n/a	n/a
Registered Nurses ⁸	544	543	67.65	67.04	-0.09	-0.46
Licensed Graduate Nurses	0	0	0.00	0.00	*	*
Registered Psychiatric Nurses	14	18	1.74	2.22	12.30	11.92
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	15	15	1.87	1.85	0.00	-0.37
Psychological Services						
Counsellors (BCACC)	6	10	0.75	1.23	*	*
Psychologists	8	8	0.99	0.99	*	*
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	12	7	1.49	0.86	-24.51	-24.80
Massage Therapists ⁶	21	27	2.61	3.33	12.82	12.42
Occupational Therapists (BCSOT)	10	13	1.24	1.60	13.42	13.02
Physical Therapists ⁶	36	38	4.48	4.69	2.53	2.18
Prosthetists & Orthotists (CBCPO & CAPO)	0	1	0.00	0.12	*	*
TOTAL⁹	1,366	1,422	169.88	175.55	2.03	1.65
Hospital Beds¹⁰						
Acute Care Beds	212	189	26.37	23.33	-3.76	-3.99
Extended Care Beds	113	113	14.05	13.95	0.00	-0.25
TOTAL BEDS	325	302	40.42	37.28	-2.42	-2.66
Community Pharmacies	13	17	1.62	2.10	13.74	13.34
Population	80,408	81,002	n/a	n/a	0.37	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 38
East Kootenay Community Health Services Society
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Dental Services																	
Certified Dental Assistants	0	16	0	41	0	39	0	6	0	1	0	0	0	1	0	104	104
Dental Hygienists	0	2	1	8	1	12	1	3	0	1	0	0	0	0	3	26	29
Dentists	0	0	7	0	6	1	13	1	8	0	2	0	0	0	36	2	38
Denturists	0	0	1	0	1	1	0	0	0	0	0	0	0	0	2	1	3
Medical & Treatment Services																	
Chiropractors	0	0	5	2	2	1	1	1	2	1	0	0	1	0	11	5	16
Emergency Medical Assistants	6	2	23	22	36	21	11	5	7	1	0	0	0	1	83	52	135
First Responders	4	0	20	7	42	5	19	2	12	0	2	0	0	0	99	14	113
Opticians	0	0	0	0	0	0	1	0	0	0	0	0	2	4	3	4	7
Pharmacists	0	1	10	12	2	5	4	4	4	3	2	0	1	1	23	26	49
Physicians (Directory Active)	0	0	12	12	34	8	29	5	18	1	10	1	0	0	103	27	130
Podiatrists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursing Services																	
Licensed Practical Nurses	0	4	2	24	1	53	1	58	0	20	0	0	0	3	4	162	166
Registered Nurses	0	9	5	86	7	137	5	195	0	93	0	6	0	0	17	526	543
Licensed Graduate Nurses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Registered Psychiatric Nurses	0	0	0	2	1	5	1	5	0	3	0	0	0	1	2	16	18
Nutrition & Dietary Services																	
Dietitians & Nutritionists	0	0	0	7	0	2	0	2	0	4	0	0	0	0	0	15	15
Psychological Services																	
Counsellors	0	0	0	1	1	1	1	3	2	1	0	0	0	0	4	6	10
Psychologists	0	0	0	0	0	0	2	1	3	1	1	0	0	0	6	2	8
Rehabilitation Services																	
Massage Therapists	0	2	2	7	1	10	3	1	0	1	0	0	0	0	6	21	27
Occupational Therapists	0	0	0	3	0	3	0	4	0	0	0	0	0	3	0	13	13
Physical Therapists	0	0	0	8	1	10	2	9	1	6	0	0	0	1	4	34	38
TOTAL	10	36	88	242	136	314	94	305	57	137	17	7	4	15	406	1,056	1,462

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 39
East Kootenay Community Health Services Society
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	91	87.50	8	7.69	3	2.88	0	0.00	0	0.00	102	98.08	2	1.92	0	0.00	104	100.00
Dental Hygienists	7	24.14	6	20.69	3	10.34	4	13.79	3	10.34	23	79.31	6	20.69	0	0.00	29	100.00
Dentists	11	28.95	7	18.42	4	10.53	3	7.89	1	2.63	26	68.42	12	31.58	0	0.00	38	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	32	65.31	7	14.29	6	12.24	0	0.00	0	0.00	45	91.84	3	6.12	1	2.04	49	100.00
Physicians (Directory Active)	19	14.62	28	21.54	22	16.92	26	20.00	6	4.62	101	77.69	29	22.31	0	0.00	130	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	123	74.10	16	9.64	8	4.82	11	6.63	5	3.01	163	98.19	1	0.60	2	1.20	166	100.00
Registered Nurses	204	37.57	134	24.68	76	14.00	61	11.23	26	4.79	501	92.27	42	7.73	0	0.00	543	100.00
Registered Psychiatric Nurses	7	38.89	2	11.11	8	44.44	0	0.00	0	0.00	17	94.44	0	0.00	1	5.56	18	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	4	26.67	4	26.67	2	13.33	0	0.00	2	13.33	12	80.00	3	20.00	0	0.00	15	100.00
<i>Psychological Services</i>																		
Psychologists	3	37.50	2	25.00	0	0.00	0	0.00	0	0.00	5	62.50	3	37.50	0	0.00	8	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	13	48.15	0	0.00	0	0.00	14	51.85	0	0.00	27	100.00	0	0.00	0	0.00	27	100.00
Occupational Therapists	5	38.46	1	7.69	1	7.69	2	15.38	1	7.69	10	76.92	2	15.38	1	7.69	13	100.00
Physical Therapists	6	15.79	4	10.53	5	13.16	5	13.16	4	10.53	24	63.16	11	28.95	3	7.89	38	100.00
TOTAL	525	44.57	219	18.59	138	11.71	126	10.70	48	4.07	1,056	89.64	114	9.68	8	0.68	1,178	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 40
Kootenay Boundary Community Health Services Society
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	14	13	1.70	1.58	-3.49	-3.42
Health Service Executives (CCHSE & ACHE) ⁵	n/a	9	n/a	1.10	n/a	n/a
Dental Services						
Certified Dental Assistants	107	112	13.02	13.65	1.84	1.91
Dental Hygienists	29	33	3.53	4.02	6.97	7.07
Dental Technicians ⁶	4	4	0.49	0.49	*	*
Dentists	49	42	5.96	5.12	-6.18	-6.12
Denturists	3	3	0.36	0.37	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	2	1	0.24	0.12	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	10	n/a	1.22	n/a	n/a
Medical Laboratory Technologists (CSMLS)	78	71	9.49	8.65	-4.41	-4.34
Medical Radiation Technologists (BCAMRT)	37	35	4.50	4.26	-2.35	-2.29
Medical & Treatment Services						
Chiropractors	17	17	2.07	2.07	0.00	0.09
Emergency Medical Assistants	152	152	18.49	18.52	0.00	0.09
First Responders	165	220	20.07	26.81	16.99	17.09
Midwives	5	2	0.61	0.24	*	*
Naturopathic Physicians	4	4	0.49	0.49	*	*
Opticians	12	11	1.46	1.34	-5.64	-5.53
Optometrists	9	9	1.09	1.10	*	*
Pharmacists	47	52	5.72	6.34	4.97	5.05
Physicians (Directory Active)	140	144	17.03	17.55	1.42	1.50
Podiatrists	0	0	0.00	0.00	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	205	n/a	24.98	n/a	n/a
Registered Nurses ⁸	722	697	87.83	84.93	-1.75	-1.67
Licensed Graduate Nurses	12	12	1.46	1.46	0.00	0.08
Registered Psychiatric Nurses	23	23	2.80	2.80	0.00	0.08
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	19	17	2.31	2.07	-5.41	-5.33
Psychological Services						
Counsellors (BCACC)	8	9	0.97	1.10	*	*
Psychologists	11	11	1.34	1.34	0.00	0.08
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	7	4	0.85	0.49	*	*
Massage Therapists ⁶	44	45	5.35	5.48	1.08	1.16
Occupational Therapists (BCSOT)	11	11	1.34	1.34	0.00	0.08
Physical Therapists ⁶	56	59	6.81	7.19	2.44	2.51
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	1,787	1,813	217.39	220.91	0.72	0.81
Hospital Beds¹⁰						
Acute Care Beds	214	207	26.03	25.22	-1.10	-1.05
Extended Care Beds	244	244	29.68	29.73	0.00	0.05
TOTAL BEDS	458	451	55.72	54.95	-0.51	-0.46
Community Pharmacies	21	21	2.55	2.56	0.00	0.08
Population	82,204	82,070	n/a	n/a	-0.08	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 41
Kootenay Boundary Community Health Services Society
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Dental Services																	
Certified Dental Assistants	0	10	0	47	0	36	0	16	0	3	0	0	0	0	0	112	112
Dental Hygienists	0	0	1	11	2	12	0	4	1	2	0	0	0	0	4	29	33
Dentists	0	0	5	3	11	2	18	0	2	0	1	0	0	0	37	5	42
Denturists	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3	0	3
Medical & Treatment Services																	
Chiropractors	0	0	2	2	6	0	5	1	1	0	0	0	0	0	14	3	17
Emergency Medical Assistants	7	1	22	23	37	25	24	7	2	3	0	0	1	92	60	152	
First Responders	25	1	41	3	82	1	51	2	13	0	0	0	1	213	7	220	
Opticians	0	0	0	0	1	1	0	1	0	1	0	0	5	2	6	5	11
Pharmacists	0	0	9	9	6	8	4	7	6	0	1	0	2	0	28	24	52
Physicians (Directory Active)	0	0	11	4	36	25	29	14	18	0	7	0	0	0	101	43	144
Podiatrists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursing Services																	
Licensed Practical Nurses	0	1	1	15	3	65	3	85	0	26	0	0	0	6	7	198	205
Registered Nurses	0	7	3	62	12	206	13	276	1	108	0	9	0	0	29	668	697
Licensed Graduate Nurses	0	0	0	0	0	0	0	9	0	3	0	0	0	0	0	12	12
Registered Psychiatric Nurses	0	0	0	1	0	4	4	8	1	3	0	1	0	1	5	18	23
Nutrition & Dietary Services																	
Dietitians & Nutritionists	0	0	1	5	0	4	0	5	0	2	0	0	0	0	1	16	17
Psychological Services																	
Counsellors	0	0	0	0	0	2	0	2	2	2	0	0	0	1	2	7	9
Psychologists	0	0	0	0	0	0	4	5	1	1	0	0	0	0	5	6	11
Rehabilitation Services																	
Massage Therapists	0	0	6	10	7	9	2	8	2	0	1	0	0	0	18	27	45
Occupational Therapists	0	0	0	2	0	6	0	1	0	0	0	0	0	2	0	11	11
Physical Therapists	0	0	4	6	0	20	5	15	0	7	0	1	0	1	9	50	59
TOTAL	32	20	106	203	206	426	162	466	50	161	10	11	8	14	574	1,301	1,875

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 42
Kootenay Boundary Community Health Services Society
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	97	86.61	7	6.25	1	0.89	0	0.00	0	0.00	105	93.75	7	6.25	0	0.00	112	100.00
Dental Hygienists	9	27.27	4	12.12	5	15.15	8	24.24	2	6.06	28	84.85	5	15.15	0	0.00	33	100.00
Dentists	16	38.10	9	21.43	1	2.38	6	14.29	4	9.52	36	85.71	6	14.29	0	0.00	42	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	38	73.08	8	15.38	3	5.77	1	1.92	1	1.92	51	98.08	0	0.00	1	1.92	52	100.00
Physicians (Directory Active)	34	23.61	21	14.58	8	5.56	31	21.53	9	6.25	103	71.53	41	28.47	0	0.00	144	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	163	79.51	15	7.32	7	3.41	6	2.93	3	1.46	194	94.63	7	3.41	4	1.95	205	100.00
Registered Nurses	447	64.13	59	8.46	45	6.46	56	8.03	30	4.30	637	91.39	60	8.61	0	0.00	697	100.00
Registered Psychiatric Nurses	17	73.91	2	8.70	1	4.35	0	0.00	0	0.00	20	86.96	0	0.00	3	13.04	23	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	8	47.06	3	17.65	4	23.53	0	0.00	0	0.00	15	88.24	1	5.88	1	5.88	17	100.00
<i>Psychological Services</i>																		
Psychologists	4	36.36	0	0.00	0	0.00	5	45.45	0	0.00	9	81.82	2	18.18	0	0.00	11	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	23	51.11	0	0.00	0	0.00	21	46.67	0	0.00	44	97.78	0	0.00	1	2.22	45	100.00
Occupational Therapists	4	36.36	1	9.09	1	9.09	4	36.36	0	0.00	10	90.91	1	9.09	0	0.00	11	100.00
Physical Therapists	13	22.03	13	22.03	2	3.39	7	11.86	4	6.78	39	66.10	18	30.51	2	3.39	59	100.00
TOTAL	873	60.17	142	9.79	78	5.38	145	9.99	53	3.65	1,291	88.97	148	10.20	12	0.83	1,451	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 43
Coast Garibaldi Community Health Services Society
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	10	7	1.31	0.88	-15.74	-17.46
Health Service Executives (CCHSE & ACHE) ⁵	n/a	7	n/a	0.88	n/a	n/a
Dental Services						
Certified Dental Assistants	78	88	10.22	11.04	4.94	3.15
Dental Hygienists	28	29	3.67	3.64	1.85	-0.42
Dental Technicians ⁶	2	2	0.26	0.25	*	*
Dentists	36	36	4.72	4.52	0.00	-1.77
Denturists	6	6	0.79	0.75	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	2	3	0.26	0.38	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	3	n/a	0.38	n/a	n/a
Medical Laboratory Technologists (CSMLS)	51	47	6.68	5.90	-3.84	-5.82
Medical Radiation Technologists (BCAMRT)	27	24	3.54	3.01	-4.92	-6.66
Medical & Treatment Services						
Chiropractors	13	16	1.70	2.01	12.60	9.86
Emergency Medical Assistants	124	146	16.24	18.32	9.32	6.78
First Responders	232	238	30.39	29.86	1.40	-0.96
Midwives	1	3	0.13	0.38	*	*
Naturopathic Physicians	2	1	0.26	0.13	*	*
Opticians	11	14	1.44	1.76	17.44	14.11
Optometrists	8	6	1.05	0.75	*	*
Pharmacists	45	52	5.89	6.52	7.19	4.99
Physicians (Directory Active)	106	114	13.88	14.30	3.70	1.49
Podiatrists	0	1	0.00	0.13	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	102	n/a	12.80	n/a	n/a
Registered Nurses ⁸	407	391	53.31	49.05	-1.99	-4.08
Licensed Graduate Nurses	1	1	0.13	0.13	*	*
Registered Psychiatric Nurses	26	30	3.41	3.76	6.83	4.72
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	6	8	0.79	1.00	*	*
Psychological Services						
Counsellors (BCACC)	12	25	1.57	3.14	40.32	37.55
Psychologists	8	6	1.05	0.75	*	*
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	7	5	0.92	0.63	*	*
Massage Therapists ⁶	49	65	6.42	8.15	14.53	12.18
Occupational Therapists (BCSOT)	6	8	0.79	1.00	*	*
Physical Therapists ⁶	54	58	7.07	7.28	3.35	1.32
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	1,358	1,430	177.87	179.39	2.62	0.43
Hospital Beds¹⁰						
Acute Care Beds	103	103	13.49	12.92	0.00	-1.43
Extended Care Beds	145	145	18.99	18.19	0.00	-1.43
TOTAL BEDS	248	248	32.48	31.11	0.00	-1.43
Community Pharmacies	18	18	2.36	2.26	0.00	-2.05
Population	76,350	79,716	n/a	n/a	2.18	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 44
Coast Garibaldi Community Health Services Society
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	7	0	28	0	42	0	10	0	1	0	0	0	0	0	88	88	
Dental Hygienists	0	0	0	8	0	10	0	10	0	0	0	1	0	0	0	29	29	
Dentists	0	0	4	3	6	0	11	2	5	1	4	0	0	0	30	6	36	
Denturists	0	0	2	0	1	0	2	0	0	0	1	0	0	0	6	0	6	
Medical & Treatment Services																		
Chiropractors	0	0	4	2	5	1	1	1	2	0	0	0	0	0	12	4	16	
Emergency Medical Assistants	6	3	49	18	30	8	16	9	4	2	1	0	0	0	106	40	146	
First Responders	13	4	69	7	92	3	30	1	13	4	0	2	0	0	217	21	238	
Opticians	0	0	0	0	0	0	1	0	0	0	0	0	5	8	6	8	14	
Pharmacists	1	4	8	8	5	10	5	5	3	1	2	0	0	0	24	28	52	
Physicians (Directory Active)	0	0	8	5	29	17	27	5	13	1	9	0	0	0	86	28	114	
Podiatrists	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	
Nursing Services																		
Licensed Practical Nurses	0	2	1	16	1	29	1	37	1	14	0	0	0	0	4	98	102	
Registered Nurses	1	2	1	53	3	124	3	133	1	60	0	10	0	0	9	382	391	
Licensed Graduate Nurses	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	
Registered Psychiatric Nurses	0	0	0	4	2	13	2	9	0	0	0	0	0	0	4	26	30	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	1	0	3	0	3	0	1	0	0	0	0	0	8	8	
Psychological Services																		
Counsellors	0	0	0	1	1	7	3	7	2	3	0	0	1	0	7	18	25	
Psychologists	0	0	0	0	1	0	0	1	3	0	1	0	0	0	5	1	6	
Rehabilitation Services																		
Massage Therapists	0	0	7	19	8	21	2	7	0	1	0	0	0	0	17	48	65	
Occupational Therapists	0	0	0	2	0	3	0	3	0	0	0	0	0	0	0	8	8	
Physical Therapists	0	0	5	16	0	15	1	11	1	6	0	3	0	0	7	51	58	
TOTAL	21	22	158	191	184	307	105	255	48	95	18	16	6	8	540	894	1,434	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 45
Coast Garibaldi Community Health Services Society
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	79	89.77	2	2.27	3	3.41	2	2.27	0	0.00	86	97.73	2	2.27	0	0.00	88	100.00
Dental Hygienists	15	51.72	6	20.69	1	3.45	2	6.90	1	3.45	25	86.21	4	13.79	0	0.00	29	100.00
Dentists	17	47.22	1	2.78	2	5.56	3	8.33	5	13.89	28	77.78	8	22.22	0	0.00	36	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	44	84.62	1	1.92	3	5.77	1	1.92	1	1.92	50	96.15	2	3.85	0	0.00	52	100.00
Physicians (Directory Active)	32	28.07	10	8.77	14	12.28	23	20.18	12	10.53	91	79.82	23	20.18	0	0.00	114	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	83	81.37	3	2.94	4	3.92	4	3.92	4	3.92	98	96.08	1	0.98	3	2.94	102	100.00
Registered Nurses	214	54.73	27	6.91	26	6.65	62	15.86	21	5.37	350	89.51	41	10.49	0	0.00	391	100.00
Registered Psychiatric Nurses	28	93.33	1	3.33	1	3.33	0	0.00	0	0.00	30	100.00	0	0.00	0	0.00	30	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	3	37.50	0	0.00	0	0.00	2	25.00	3	37.50	8	100.00	0	0.00	0	0.00	8	100.00
<i>Psychological Services</i>																		
Psychologists	2	33.33	0	0.00	1	16.67	1	16.67	0	0.00	4	66.67	2	33.33	0	0.00	6	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	44	67.69	0	0.00	1	1.54	19	29.23	0	0.00	64	98.46	1	1.54	0	0.00	65	100.00
Occupational Therapists	3	37.50	0	0.00	0	0.00	3	37.50	0	0.00	6	75.00	2	25.00	0	0.00	8	100.00
Physical Therapists	11	18.97	5	8.62	0	0.00	12	20.69	7	12.07	35	60.34	13	22.41	10	17.24	58	100.00
TOTAL	575	58.26	56	5.67	56	5.67	134	13.58	54	5.47	875	88.65	99	10.03	13	1.32	987	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 46
Upper Island/Central Coast Community Health Services Society
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	6	6	0.49	0.49	*	*
Health Service Executives (CCHSE & ACHE) ⁵	n/a	6	n/a	0.49	n/a	n/a
Dental Services						
Certified Dental Assistants	186	178	15.32	14.49	-1.74	-2.19
Dental Hygienists	48	52	3.95	4.23	4.26	3.65
Dental Technicians ⁶	13	14	1.07	1.14	3.77	3.19
Dentists	59	57	4.86	4.64	-1.42	-1.88
Denturists	7	7	0.58	0.57	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	10	10	0.82	0.81	0.00	-0.57
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	12	n/a	0.98	n/a	n/a
Medical Laboratory Technologists (CSMLS)	83	74	6.84	6.03	-5.36	-5.88
Medical Radiation Technologists (BCAMRT)	34	34	2.80	2.77	0.00	-0.49
Medical & Treatment Services						
Chiropractors	24	23	1.98	1.87	-2.40	-3.03
Emergency Medical Assistants	205	179	16.88	14.58	-7.13	-7.71
First Responders	254	289	20.92	23.53	7.30	6.63
Midwives	5	5	0.41	0.41	*	*
Naturopathic Physicians	5	5	0.41	0.41	*	*
Opticians	23	22	1.89	1.79	-2.92	-3.65
Optometrists	9	10	0.74	0.81	*	*
Pharmacists	56	63	4.61	5.13	5.82	5.24
Physicians (Directory Active)	186	183	15.32	14.90	-0.81	-1.37
Podiatrists	1	1	0.08	0.08	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	171	n/a	13.92	n/a	n/a
Registered Nurses ⁸	811	826	66.79	67.26	0.92	0.35
Licensed Graduate Nurses	6	4	0.49	0.33	*	*
Registered Psychiatric Nurses	33	38	2.72	3.09	6.73	6.17
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	12	15	0.99	1.22	11.80	11.17
Psychological Services						
Counsellors (BCACC)	22	24	1.81	1.95	4.10	3.55
Psychologists	16	13	1.32	1.06	-9.49	-9.98
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	11	10	0.91	0.81	-4.85	-5.41
Massage Therapists ⁶	36	39	2.96	3.18	3.92	3.35
Occupational Therapists (BCSOT)	17	20	1.40	1.63	8.11	7.52
Physical Therapists ⁶	57	61	4.69	4.97	3.18	2.64
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	2,235	2,262	184.08	184.19	0.60	0.03
Hospital Beds¹⁰						
Acute Care Beds	220	220	18.12	17.91	0.00	-0.38
Extended Care Beds	188	214	15.48	17.43	4.41	4.02
TOTAL BEDS	408	434	33.60	35.34	2.08	1.69
Community Pharmacies						
	21	23	1.73	1.87	4.46	3.89
Population	121,417	122,806	n/a	n/a	0.57	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 47
Upper Island/Central Coast Community Health Services Society
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	14	0	46	0	87	0	28	0	2	0	0	0	1	0	178	178	
Dental Hygienists	0	0	0	15	0	24	1	12	0	0	0	0	0	0	1	51	52	
Dentists	0	0	11	1	8	3	23	3	7	0	1	0	0	0	50	7	57	
Denturists	0	0	0	0	1	1	2	0	2	0	1	0	0	0	6	1	7	
Medical & Treatment Services																		
Chiropractors	0	0	6	3	5	1	6	0	1	0	1	0	0	0	19	4	23	
Emergency Medical Assistants	2	2	25	15	48	27	32	13	8	4	0	0	1	2	116	63	179	
First Responders	21	1	80	10	104	7	52	3	11	0	0	0	0	0	268	21	289	
Opticians	0	0	0	1	2	1	0	1	1	0	0	0	3	13	6	16	22	
Pharmacists	0	1	8	14	11	10	6	6	4	0	1	0	0	2	30	33	63	
Physicians (Directory Active)	0	0	7	14	46	25	49	10	21	3	8	0	0	0	131	52	183	
Podiatrists	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	
Nursing Services																		
Licensed Practical Nurses	0	1	0	19	2	60	0	66	1	18	0	1	0	3	3	168	171	
Registered Nurses	0	5	5	95	10	269	6	294	2	131	0	9	0	0	23	803	826	
Licensed Graduate Nurses	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4	4	
Registered Psychiatric Nurses	0	0	0	3	0	12	2	16	1	1	0	0	1	2	4	34	38	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	3	0	6	0	4	0	1	0	0	0	1	0	15	15	
Psychological Services																		
Counsellors	0	0	0	1	1	2	2	9	3	1	0	1	0	4	6	18	24	
Psychologists	0	0	0	0	1	1	2	2	4	3	0	0	0	0	7	6	13	
Rehabilitation Services																		
Massage Therapists	1	1	1	7	2	12	0	13	0	1	0	1	0	0	4	35	39	
Occupational Therapists	0	0	0	1	0	4	0	8	0	2	0	0	0	5	0	20	20	
Physical Therapists	0	0	3	9	4	13	4	21	1	6	0	0	0	0	12	49	61	
TOTAL	24	25	146	257	245	565	188	511	67	175	12	12	5	33	687	1,578	2,265	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 48
Upper Island/Central Coast Community Health Services Society
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	160	89.89	9	5.06	4	2.25	0	0.00	1	0.56	174	97.75	4	2.25	0	0.00	178	100.00
Dental Hygienists	22	42.31	2	3.85	7	13.46	11	21.15	2	3.85	44	84.62	8	15.38	0	0.00	52	100.00
Dentists	19	33.33	12	21.05	6	10.53	6	10.53	8	14.04	51	89.47	6	10.53	0	0.00	57	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	36	57.14	6	9.52	10	15.87	2	3.17	4	6.35	58	92.06	4	6.35	1	1.59	63	100.00
Physicians (Directory Active)	51	27.87	27	14.75	15	8.20	25	13.66	18	9.84	136	74.32	47	25.68	0	0.00	183	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	115	67.25	11	6.43	10	5.85	17	9.94	9	5.26	162	94.74	4	2.34	5	2.92	171	100.00
Registered Nurses	435	52.66	60	7.26	89	10.77	101	12.23	70	8.47	755	91.40	71	8.60	0	0.00	826	100.00
Registered Psychiatric Nurses	21	55.26	7	18.42	4	10.53	0	0.00	0	0.00	32	84.21	2	5.26	4	10.53	38	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	6	40.00	2	13.33	2	13.33	3	20.00	1	6.67	14	93.33	1	6.67	0	0.00	15	100.00
<i>Psychological Services</i>																		
Psychologists	7	53.85	1	7.69	0	0.00	2	15.38	0	0.00	10	76.92	3	23.08	0	0.00	13	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	24	61.54	0	0.00	0	0.00	15	38.46	0	0.00	39	100.00	0	0.00	0	0.00	39	100.00
Occupational Therapists	7	35.00	1	5.00	0	0.00	4	20.00	0	0.00	12	60.00	8	40.00	0	0.00	20	100.00
Physical Therapists	23	37.70	3	4.92	5	8.20	8	13.11	3	4.92	42	68.85	15	24.59	4	6.56	61	100.00
TOTAL	926	53.96	141	8.22	152	8.86	194	11.31	116	6.76	1,529	89.10	173	10.08	14	0.82	1,716	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 49
Cariboo Community Health Services Society
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	7	6	0.92	0.78	*	*
Health Service Executives (CCHSE & ACHE) ⁵	n/a	3	n/a	0.39	n/a	n/a
Dental Services						
Certified Dental Assistants	83	80	10.94	10.45	-1.46	-1.79
Dental Hygienists	29	28	3.82	3.66	-1.81	-2.24
Dental Technicians ⁶	1	1	0.13	0.13	*	*
Dentists	30	30	3.95	3.92	0.00	-0.34
Denturists	2	3	0.26	0.39	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	2	2	0.26	0.26	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	3	n/a	0.39	n/a	n/a
Medical Laboratory Technologists (CSMLS)	36	31	4.74	4.05	-6.93	-7.30
Medical Radiation Technologists (BCAMRT)	22	21	2.90	2.74	-1.97	-2.32
Medical & Treatment Services						
Chiropractors	8	7	1.05	0.91	*	*
Emergency Medical Assistants	93	77	12.25	10.06	-9.79	-10.19
First Responders	47	70	6.19	9.15	24.27	23.71
Midwives	0	0	0.00	0.00	*	*
Naturopathic Physicians	1	1	0.13	0.13	*	*
Opticians	23	22	3.03	2.87	-2.92	-3.46
Optometrists	6	8	0.79	1.05	*	*
Pharmacists	38	42	5.01	5.49	4.92	4.50
Physicians (Directory Active)	79	83	10.41	10.85	2.50	2.08
Podiatrists	0	0	0.00	0.00	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	93	n/a	12.15	n/a	n/a
Registered Nurses ⁸	433	418	57.05	54.62	-1.75	-2.15
Licensed Graduate Nurses	1	1	0.13	0.13	*	*
Registered Psychiatric Nurses	27	24	3.56	3.14	-5.29	-5.65
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	10	8	1.32	1.05	-10.56	-10.93
Psychological Services						
Counsellors (BCACC)	5	4	0.66	0.52	*	*
Psychologists	4	4	0.53	0.52	*	*
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	7	5	0.92	0.65	*	*
Massage Therapists ⁶	13	13	1.71	1.70	0.00	-0.40
Occupational Therapists (BCSOT)	6	6	0.79	0.78	*	*
Physical Therapists ⁶	28	29	3.69	3.79	1.63	1.24
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	1,041	1,024	137.16	133.80	-0.82	-1.23
Hospital Beds¹⁰						
Acute Care Beds	125	119	16.47	15.55	-1.63	-1.90
Extended Care Beds	93	113	12.25	14.77	6.71	6.41
TOTAL BEDS	218	232	28.72	30.31	2.10	1.81
Community Pharmacies	13	14	1.71	1.83	3.62	3.21
Population	75,898	76,530	n/a	n/a	0.42	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 50
Cariboo Community Health Services Society
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Dental Services																		
Certified Dental Assistants	0	8	0	30	0	35	0	6	0	1	0	0	0	0	0	80	80	
Dental Hygienists	0	2	0	14	0	9	0	3	0	0	0	0	0	0	0	28	28	
Dentists	0	0	4	1	11	3	7	1	3	0	0	0	0	0	25	5	30	
Denturists	0	0	0	0	1	0	1	0	1	0	0	0	0	0	3	0	3	
Medical & Treatment Services																		
Chiropractors	0	0	2	1	1	0	2	0	1	0	0	0	0	0	6	1	7	
Emergency Medical Assistants	1	1	15	8	17	9	10	7	5	4	0	0	0	0	48	29	77	
First Responders	5	0	15	0	18	6	17	4	2	0	1	2	0	0	58	12	70	
Opticians	0	0	0	2	0	0	0	2	0	0	0	0	4	14	4	18	22	
Pharmacists	1	2	7	12	6	2	4	0	3	3	1	1	0	0	22	20	42	
Physicians (Directory Active)	0	0	6	4	21	6	24	5	8	1	8	0	0	0	67	16	83	
Podiatrists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nursing Services																		
Licensed Practical Nurses	0	0	0	6	0	29	0	40	0	17	0	0	0	1	0	93	93	
Registered Nurses	0	2	0	71	2	111	3	155	0	65	0	9	0	0	5	413	418	
Licensed Graduate Nurses	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	
Registered Psychiatric Nurses	0	0	0	1	1	9	1	5	2	4	0	0	1	0	5	19	24	
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	4	0	3	0	1	0	0	0	0	0	0	0	8	8	
Psychological Services																		
Counsellors	0	0	0	0	1	0	0	2	0	1	0	0	0	0	1	3	4	
Psychologists	0	0	0	0	0	0	0	1	1	2	0	0	0	0	1	3	4	
Rehabilitation Services																		
Massage Therapists	0	0	1	5	1	3	1	1	0	1	0	0	0	0	3	10	13	
Occupational Therapists	0	0	0	2	0	2	0	1	0	0	0	0	0	1	0	6	6	
Physical Therapists	0	0	1	3	2	7	1	13	0	1	0	1	0	0	4	25	29	
TOTAL	7	15	51	164	82	234	71	247	26	100	10	14	5	16	252	790	1,042	

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 51
Cariboo Community Health Services Society
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	79	98.75	0	0.00	1	1.25	0	0.00	0	0.00	80	100.00	0	0.00	0	0.00	80	100.00
Dental Hygienists	23	82.14	2	7.14	1	3.57	0	0.00	2	7.14	28	100.00	0	0.00	0	0.00	28	100.00
Dentists	12	40.00	1	3.33	3	10.00	2	6.67	2	6.67	20	66.67	10	33.33	0	0.00	30	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	34	80.95	1	2.38	6	14.29	0	0.00	0	0.00	41	97.62	1	2.38	0	0.00	42	100.00
Physicians (Directory Active)	32	38.55	6	7.23	2	2.41	9	10.84	3	3.61	52	62.65	31	37.35	0	0.00	83	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	65	69.89	8	8.60	9	9.68	6	6.45	2	2.15	90	96.77	2	2.15	1	1.08	93	100.00
Registered Nurses	282	67.46	29	6.94	27	6.46	39	9.33	11	2.63	388	92.82	30	7.18	0	0.00	418	100.00
Registered Psychiatric Nurses	13	54.17	1	4.17	6	25.00	0	0.00	0	0.00	20	83.33	1	4.17	3	12.50	24	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	5	62.50	1	12.50	0	0.00	1	12.50	1	12.50	8	100.00	0	0.00	0	0.00	8	100.00
<i>Psychological Services</i>																		
Psychologists	2	50.00	0	0.00	0	0.00	0	0.00	0	0.00	2	50.00	2	50.00	0	0.00	4	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	7	53.85	0	0.00	0	0.00	6	46.15	0	0.00	13	100.00	0	0.00	0	0.00	13	100.00
Occupational Therapists	1	16.67	2	33.33	1	16.67	1	16.67	1	16.67	6	100.00	0	0.00	0	0.00	6	100.00
Physical Therapists	8	27.59	0	0.00	2	6.90	0	0.00	2	6.90	12	41.38	13	44.83	4	13.79	29	100.00
TOTAL	563	65.62	51	5.94	58	6.76	64	7.46	24	2.80	760	88.58	90	10.49	8	0.93	858	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 52
North West Community Health Services Society¹
Health Personnel², Hospital Beds, Community Pharmacies and Population
1997 and 1999³

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ⁴	Ratio ⁵
Administrative Services						
Health Record Personnel (HRABC)	10	9	1.09	0.99	-4.93	-4.60
Health Service Executives (CCHSE & ACHE) ⁶	n/a	8	n/a	0.88	n/a	n/a
Dental Services						
Certified Dental Assistants	101	95	11.01	10.43	-2.42	-2.14
Dental Hygienists	31	33	3.38	3.62	3.32	3.70
Dental Technicians ⁷	3	3	0.33	0.33	*	*
Dentists	40	35	4.36	3.84	-5.38	-5.09
Denturists	4	4	0.44	0.44	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	2	1	0.22	0.11	*	*
Diagnostic Medical Sonographers (ARDMS) ⁶	n/a	6	n/a	0.66	n/a	n/a
Medical Laboratory Technologists (CSMLS)	70	67	7.63	7.35	-2.08	-1.74
Medical Radiation Technologists (BCAMRT)	34	31	3.70	3.40	-3.88	-3.58
Medical & Treatment Services						
Chiropractors	8	9	0.87	0.99	*	*
Emergency Medical Assistants	186	206	20.27	22.61	5.73	6.14
First Responders	302	284	32.91	31.17	-3.30	-2.92
Midwives	0	0	0.00	0.00	*	*
Naturopathic Physicians	1	1	0.11	0.11	*	*
Opticians	12	8	1.31	0.88	-23.69	-23.32
Optometrists	8	7	0.87	0.77	*	*
Pharmacists	61	53	6.65	5.82	-6.53	-6.20
Physicians (Directory Active)	127	128	13.84	14.05	0.39	0.75
Podiatrists	1	1	0.11	0.11	*	*
Nursing Services						
Licensed Practical Nurses ⁸	n/a	97	n/a	10.65	n/a	n/a
Registered Nurses ⁹	591	546	64.40	59.92	-3.88	-3.54
Licensed Graduate Nurses	4	3	0.44	0.33	*	*
Registered Psychiatric Nurses	27	28	2.94	3.07	1.69	2.03
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	14	11	1.53	1.21	-11.36	-11.04
Psychological Services						
Counsellors (BCACC)	4	9	0.44	0.99	*	*
Psychologists	7	5	0.76	0.55	*	*
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	9	8	0.98	0.88	*	*
Massage Therapists ⁷	13	14	1.42	1.54	3.62	3.98
Occupational Therapists (BCSOT)	15	13	1.63	1.43	-6.64	-6.32
Physical Therapists ⁷	31	28	3.38	3.07	-4.59	-4.27
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL¹⁰	1,716	1,640	186.98	179.99	-2.24	-1.89
Hospital Beds¹¹						
Acute Care Beds	216	208	23.54	22.83	-1.25	-1.01
Extended Care Beds	66	74	7.19	8.12	3.89	4.14
TOTAL BEDS	282	282	30.73	30.95	0.00	0.24
Community Pharmacies	15	16	1.63	1.76	3.15	3.50
Population	91,776	91,118	n/a	n/a	-0.36	n/a

¹ Includes the Nisga'a Health Authority.

² Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

³ Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

⁴ Rate of change (in percent) in the number.

⁵ Rate of change (in percent) in the number per 10,000 population.

⁶ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁷ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁸ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁹ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

¹⁰ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹¹ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 53
North West Community Health Services Society¹
Selected Health Personnel² by Age and Sex
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Sex	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	Unknown	
Dental Services																		
Certified Dental Assistants	0	10	0	35	0	36	0	12	0	2	0	0	0	0	0	95	0	95
Dental Hygienists	0	2	0	19	0	10	0	2	0	0	0	0	0	0	0	33	0	33
Dentists	0	0	7	1	7	0	14	0	5	1	0	0	0	0	33	2	0	35
Denturists	0	0	1	1	0	0	1	0	0	0	0	0	0	0	2	1	1	4
Medical & Treatment Services																		
Chiropractors	0	0	1	0	0	2	4	1	1	0	0	0	0	0	6	3	0	9
Emergency Medical Assistants	11	3	50	32	36	30	21	12	5	2	0	0	4	0	127	79	0	206
First Responders	18	4	92	10	90	9	50	2	6	0	2	0	1	0	259	25	0	284
Opticians	0	0	1	0	0	0	1	0	0	0	0	0	3	3	5	3	0	8
Pharmacists	0	1	8	11	9	7	7	5	4	1	0	0	0	0	28	25	0	53
Physicians (Directory Active)	0	0	11	12	36	11	31	5	17	1	3	1	0	0	98	30	0	128
Podiatrists	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Nursing Services																		
Licensed Practical Nurses	0	2	1	6	1	22	1	45	0	15	0	1	0	3	3	94	0	97
Registered Nurses	0	11	7	95	10	182	4	168	1	64	0	4	0	0	22	524	0	546
Licensed Graduate Nurses	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	3
Registered Psychiatric Nurses	0	0	0	5	0	5	2	13	1	1	0	0	0	1	3	25	0	28
Nutrition & Dietary Services																		
Dietitians & Nutritionists	0	0	0	5	0	3	0	3	0	0	0	0	0	0	0	11	0	11
Psychological Services																		
Counsellors	0	0	0	2	0	1	1	4	0	1	0	0	0	0	1	8	0	9
Psychologists	0	0	0	0	0	0	2	1	2	0	0	0	0	0	4	1	0	5
Rehabilitation Services																		
Massage Therapists	0	0	0	6	1	2	1	3	0	0	0	1	0	0	2	12	0	14
Occupational Therapists	0	0	0	3	0	4	0	4	0	0	0	0	0	2	0	13	0	13
Physical Therapists	0	0	1	3	5	8	1	7	0	3	0	0	0	0	7	21	0	28
TOTAL	29	33	181	246	195	332	141	290	42	91	5	7	8	9	601	1,008	1	1,610

¹ Includes the Nisga'a Health Authority.

² Age and sex information are not available for all health groups.

Table 54
North West Community Health Services Society¹
Selected Health Personnel² by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	85	89.47	1	1.05	0	0.00	0	0.00	1	1.05	87	91.58	8	8.42	0	0.00	95	100.00
Dental Hygienists	24	72.73	2	6.06	0	0.00	3	9.09	0	0.00	29	87.88	4	12.12	0	0.00	33	100.00
Dentists	10	28.57	9	25.71	1	2.86	1	2.86	1	2.86	22	62.86	13	37.14	0	0.00	35	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	34	64.15	5	9.43	8	15.09	2	3.77	1	1.89	50	94.34	3	5.66	0	0.00	53	100.00
Physicians (Directory Active)	24	18.75	18	14.06	5	3.91	21	16.41	11	8.59	79	61.72	49	38.28	0	0.00	128	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	53	54.64	6	6.19	8	8.25	11	11.34	9	9.28	87	89.69	3	3.09	7	7.22	97	100.00
Registered Nurses	258	47.25	59	10.81	54	9.89	65	11.90	59	10.81	495	90.66	51	9.34	0	0.00	546	100.00
Registered Psychiatric Nurses	19	67.86	3	10.71	5	17.86	0	0.00	0	0.00	27	96.43	1	3.57	0	0.00	28	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	3	27.27	0	0.00	3	27.27	4	36.36	1	9.09	11	100.00	0	0.00	0	0.00	11	100.00
<i>Psychological Services</i>																		
Psychologists	2	40.00	0	0.00	0	0.00	1	20.00	0	0.00	3	60.00	2	40.00	0	0.00	5	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	9	64.29	0	0.00	0	0.00	5	35.71	0	0.00	14	100.00	0	0.00	0	0.00	14	100.00
Occupational Therapists	7	53.85	1	7.69	0	0.00	4	30.77	0	0.00	12	92.31	1	7.69	0	0.00	13	100.00
Physical Therapists	7	25.00	2	7.14	1	3.57	4	14.29	1	3.57	15	53.57	8	28.57	5	17.86	28	100.00
TOTAL	535	49.26	106	9.76	85	7.83	121	11.14	84	7.73	931	85.73	143	13.17	12	1.10	1,086	100.00

¹ Includes the Nisga'a Health Authority.

² Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

Table 55
Peace Liard Community Health Services Society
Health Personnel¹, Hospital Beds, Community Pharmacies and Population
1997 and 1999²

Health Group	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1997	1999	1997	1999	Number ³	Ratio ⁴
Administrative Services						
Health Record Personnel (HRABC)	4	4	0.61	0.61	*	*
Health Service Executives (CCHSE & ACHE) ⁵	n/a	6	n/a	0.91	n/a	n/a
Dental Services						
Certified Dental Assistants	59	54	9.01	8.21	-3.48	-3.64
Dental Hygienists	12	16	1.83	2.43	16.19	15.94
Dental Technicians ⁶	1	1	0.15	0.15	*	*
Dentists	24	22	3.67	3.35	-3.54	-3.71
Denturists	2	2	0.31	0.30	*	*
Lab. & Therapeutic Tech. Services						
Cardiology Technologists (CTABC)	1	1	0.15	0.15	*	*
Diagnostic Medical Sonographers (ARDMS) ⁵	n/a	9	n/a	1.37	n/a	n/a
Medical Laboratory Technologists (CSMLS)	39	36	5.96	5.48	-3.77	-3.97
Medical Radiation Technologists (BCAMRT)	24	23	3.67	3.50	-1.81	-1.99
Medical & Treatment Services						
Chiropractors	7	9	1.07	1.37	*	*
Emergency Medical Assistants	122	93	18.64	14.15	-13.76	-13.96
First Responders	77	82	11.76	12.47	3.49	3.25
Midwives	0	0	0.00	0.00	*	*
Naturopathic Physicians	0	1	0.00	0.15	*	*
Opticians	6	5	0.92	0.76	*	*
Optometrists	5	7	0.76	1.06	*	*
Pharmacists	29	31	4.43	4.72	3.25	3.04
Physicians (Directory Active)	59	61	9.01	9.28	1.68	1.46
Podiatrists	0	0	0.00	0.00	*	*
Nursing Services						
Licensed Practical Nurses ⁷	n/a	83	n/a	12.63	n/a	n/a
Registered Nurses ⁸	355	344	54.23	52.33	-1.56	-1.77
Licensed Graduate Nurses	4	3	0.61	0.46	*	*
Registered Psychiatric Nurses	21	25	3.21	3.80	8.38	8.17
Nutrition & Dietary Services						
Dietitians & Nutritionists (BCDNA)	4	5	0.61	0.76	*	*
Psychological Services						
Counsellors (BCACC)	6	6	0.92	0.91	*	*
Psychologists	3	3	0.46	0.46	*	*
Rehabilitation Services						
Aud. & Speech/Lang. Pathologists (BCASLPA)	5	5	0.76	0.76	*	*
Massage Therapists ⁶	6	6	0.92	0.91	*	*
Occupational Therapists (BCSOT)	3	6	0.46	0.91	*	*
Physical Therapists ⁶	27	23	4.12	3.50	-7.13	-7.32
Prosthetists & Orthotists (CBCPO & CAPO)	0	0	0.00	0.00	*	*
TOTAL⁹	905	874	138.25	132.95	-1.73	-1.94
Hospital Beds¹⁰						
Acute Care Beds	164	161	25.05	24.49	-0.61	-0.75
Extended Care Beds	62	69	9.47	10.50	3.63	3.48
TOTAL BEDS	226	230	34.53	34.99	0.59	0.44
Community Pharmacies	10	11	1.53	1.67	4.68	4.47
Population	65,459	65,739	n/a	n/a	0.21	n/a

¹ Clinical Perfusionists and Respiratory Therapists do not appear in this table as no data were received from these groups this year. Environmental Health Officers and Nutrition Managers also do not appear in this table as the data received from these groups were incomplete. Please see the introductory text for details.

² Dates of record differ for each health group. Please refer to Table 1 in the Introduction for specific dates of record for each group.

³ Rate of change (in percent) in the number.

⁴ Rate of change (in percent) in the number per 10,000 population.

⁵ Due to changes in data collection, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁶ Due to changes in the registration categories included in this table, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁷ Due to changes in registration categories, 1997 and 1999 data are not comparable. Hence, 1997 data are not shown.

⁸ Due to changes in the date of record, the 1997 data shown are not comparable to those appearing in *INVENTORY 97*.

⁹ The total excludes Health Service Executives, Diagnostic Medical Sonographers and Licensed Practical Nurses because comparable data for 1997 and 1999 are not available.

¹⁰ Due to changes in the classification of hospital beds included in this table, the 1997 numbers shown are not comparable to those appearing in *INVENTORY 97*.

* Indicates that the base for the rate of change is less than 10.

n/a - Not applicable/not comparable.

Prepared by:

Health Human Resources Unit
Centre for Health Services and Policy Research
The University of British Columbia

Table 56
Peace Liard Community Health Services Society
Selected Health Personnel¹ by Age and Sex²
1999

Health Group	< 25		25-34		35-44		45-54		55-64		65 +		Age Unknown		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Dental Services																	
Certified Dental Assistants	0	6	0	13	0	27	0	7	0	1	0	0	0	0	0	54	54
Dental Hygienists	0	0	0	11	0	4	0	1	0	0	0	0	0	0	0	16	16
Dentists	0	0	7	1	4	1	5	0	4	0	0	0	0	0	20	2	22
Denturists	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0	2
Medical & Treatment Services																	
Chiropractors	0	0	2	0	2	0	2	1	0	0	1	0	0	1	7	2	9
Emergency Medical Assistants	10	7	20	16	13	8	12	5	1	0	0	0	1	0	57	36	93
First Responders	5	0	20	3	27	4	20	0	3	0	0	0	0	0	75	7	82
Opticians	0	0	0	1	0	0	0	0	0	0	0	0	2	2	2	3	5
Pharmacists	0	2	6	8	1	2	5	3	3	1	0	0	0	0	15	16	31
Physicians (Directory Active)	0	0	6	0	22	7	14	2	4	1	5	0	0	0	51	10	61
Podiatrists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursing Services																	
Licensed Practical Nurses	0	3	0	11	0	16	0	44	0	8	0	1	0	0	0	83	83
Registered Nurses	0	6	3	84	4	104	0	99	0	39	0	5	0	0	7	337	344
Licensed Graduate Nurses	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	2	3
Registered Psychiatric Nurses	0	1	1	4	3	7	2	2	4	0	0	0	1	10	15	25	
Nutrition & Dietary Services																	
Dietitians & Nutritionists	0	0	0	2	0	2	0	1	0	0	0	0	0	0	0	5	5
Psychological Services																	
Counsellors	0	0	0	0	0	1	1	1	0	1	2	0	0	0	3	3	6
Psychologists	0	0	0	0	0	0	1	1	1	0	0	0	0	0	2	1	3
Rehabilitation Services																	
Massage Therapists	0	1	0	1	1	1	0	1	0	1	0	0	0	0	1	5	6
Occupational Therapists	0	0	0	2	1	0	0	0	0	0	0	0	0	3	1	5	6
Physical Therapists	0	0	0	5	4	5	0	5	0	4	0	0	0	0	4	19	23
TOTAL	15	26	65	162	84	190	62	174	21	56	8	6	3	7	258	621	879

¹ Age and sex information are not available for all health groups.

² There are no health personnel with missing sex information.

Table 57
Peace Liard Community Health Services Society
Selected Health Personnel¹ by Place of Graduation
1999

Health Group	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		N	%
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
<i>Dental Services</i>																		
Certified Dental Assistants	49	90.74	3	5.56	0	0.00	0	0.00	0	0.00	52	96.30	2	3.70	0	0.00	54	100.00
Dental Hygienists	8	50.00	2	12.50	0	0.00	2	12.50	2	12.50	14	87.50	2	12.50	0	0.00	16	100.00
Dentists	5	22.73	6	27.27	1	4.55	1	4.55	6	27.27	19	86.36	3	13.64	0	0.00	22	100.00
<i>Medical & Treatment Services</i>																		
Pharmacists	17	54.84	4	12.90	8	25.81	0	0.00	1	3.23	30	96.77	1	3.23	0	0.00	31	100.00
Physicians (Directory Active)	6	9.84	8	13.11	1	1.64	4	6.56	1	1.64	20	32.79	41	67.21	0	0.00	61	100.00
<i>Nursing Services</i>																		
Licensed Practical Nurses	41	49.40	19	22.89	7	8.43	7	8.43	8	9.64	82	98.80	1	1.20	0	0.00	83	100.00
Registered Nurses	127	36.92	74	21.51	53	15.41	35	10.17	30	8.72	319	92.73	25	7.27	0	0.00	344	100.00
Registered Psychiatric Nurses	5	20.00	8	32.00	8	32.00	0	0.00	0	0.00	21	84.00	1	4.00	3	12.00	25	100.00
<i>Nutrition & Dietary Services</i>																		
Dietitians & Nutritionists	0	0.00	3	60.00	1	20.00	1	20.00	0	0.00	5	100.00	0	0.00	0	0.00	5	100.00
<i>Psychological Services</i>																		
Psychologists	1	33.33	0	0.00	0	0.00	0	0.00	2	66.67	3	100.00	0	0.00	0	0.00	3	100.00
<i>Rehabilitation Services</i>																		
Massage Therapists	6	100.00	0	0.00	0	0.00	0	0.00	0	0.00	6	100.00	0	0.00	0	0.00	6	100.00
Occupational Therapists	0	0.00	2	33.33	0	0.00	0	0.00	2	33.33	4	66.67	2	33.33	0	0.00	6	100.00
Physical Therapists	4	17.39	2	8.70	0	0.00	1	4.35	0	0.00	7	30.43	13	56.52	3	13.04	23	100.00
TOTAL	269	39.62	131	19.29	79	11.63	51	7.51	52	7.66	582	85.71	91	13.40	6	0.88	679	100.00

¹ Place of graduation is not available for all health groups. Therefore, the total number shown here will be less than the total shown in the first table of this section.

APPENDIX A
INFORMATION ABOUT HEALTH PERSONNEL

HEALTH RECORD PERSONNEL

Definition: Health record personnel

...include Health Record Administrators (HRA) and Health Record Technicians (HRT) who work in a variety of health care facilities such as acute, specialised and long term hospitals, community health centres, industrial clinics, and provincial or federal health care agencies, as well as the health care research field. They contribute to the health information team by: planning information acquisition, maintaining utilisation systems, analysing and technically evaluating health information, and compiling and applying administrative and health statistics.¹

Notes:

Information on health record personnel was prepared from membership data provided by the Health Record Association of British Columbia (HRABC), and includes *active*, *affiliate*, and *inactive* members who reported a British Columbia address at the date of record. Data presented in the tables are based on home address for the majority of health record personnel. Precise percentages of home versus employment or other address are not known. The February 1998 data were obtained during a membership renewal cycle and may not accurately reflect membership at that time. Comparisons with 2000 data should therefore be made with caution.

An *active* member of the HRABC is a person who makes application thereto and who establishes to the satisfaction of the Executive Committee that s/he has successfully completed a health record program recognised by the Canadian Health Record Association (CHRA). An *affiliate* member is a person who does not qualify for active membership, but is either engaged in the record department in a hospital or other allied field; or a student enrolled in a health record program that is recognised by the CHRA. *Inactive* members are no longer engaged in active work in the health care field in British Columbia.²

HEALTH SERVICES EXECUTIVES

Definition: A health services executive

...plans, organises, directs and controls, through middle managers, institutions or organisations that deliver health or community services.

Health services executives perform some or all of the following duties:

- (a) establish objectives for the institution and formulate or approve policies and programs;
- (b) authorise and organise the establishment of major departments and associated senior staff positions;
- (c) allocate funds to implement an organisation's policies and programs; establish financial and administrative controls; formulate and approve promotion campaigns; and approve overall personnel planning;
- (d) select or approve the selection of middle managers, directors or other executive staff;
- (e) co-ordinate the work of regions, divisions or departments;
- (f) represent the institution or delegate representatives to act on behalf of the institution in negotiations or other official functions.³

¹ Adapted from information received from the Health Record Association of B.C.

² From the bylaws of the Health Record Association of B.C.

³ Adapted from *National Occupational Classification 1992*, Major Group 00, No. 0014, Ottawa: Employment and Immigration Canada.

Notes:

Information on health services executives was derived from membership lists supplied by the Canadian College of Health Service Executives (CCHSE) and the American College of Healthcare Executives (ACHE). In 1997, membership data for the Health Administrators' Association of British Columbia (HAABC) were also included in the tables, but as the HAABC no longer exists in 1999, no data were available. The data include health services executives who reported a British Columbia address at the date of record. Data presented are based on employment address for the majority of health services executives. Precise percentages of home versus employment or other address are not known. Comparison with 1997 figures is of limited value and has not been presented. Excluded from the tables are inactive, student, retired, life, honorary, corporate and other members of the CCHSE or ACHE who are not considered to be part of the work force.

CERTIFIED DENTAL ASSISTANTS

Definition: A certified dental assistant (dental auxiliary - level II)

...may be delegated the following duties and procedures under the personal supervision of a duly licensed member of the College of Dental Surgeons of British Columbia:

- (a) those duties or procedures which a dental assistant (dental auxiliary - level I) may perform;⁴
- (b) polishing clinical crowns of teeth with rubber cup or brush and polishing pastes;
- (c) applying topical anticariogenic agents;
- (d) taking study model impressions;
- (e) applying fissure sealants;
- (f) evaluating dietary habits and providing nutritional counselling as it pertains to dentistry;
- (g) providing instruction in the use and maintenance of partial and complete dentures and other appliances;
- (h) removing sutures;
- (i) placing and removing matrices and wedges;
- (j) performing first aid procedures;
- (k) applying desensitising agents;
- (l) removing periodontal dressings;
- (m) performing pulp vitality tests using electric pulp tester and thermal pulp tester;
- (n) taking simple face-bow transfer;
- (o) acid etching prepared cavities;
- (p) applying non-invasive identification discs
- (q) other procedures that the general examination committee may authorise while the certified dental assistant is participating in courses of study and training approved by the general examination committee, and subject to the requirements of that committee with respect thereto;
- (r) applying treatment liners in teeth without pulpal involvement;
- (s) removing retraction cord.⁵

On successful completion of the specific training module concerned, a certified dental assistant may also be delegated the following duties and procedures under the personal supervision of a licensed member:

- (a) instructing in the placement and care of removable orthodontic appliances;
- (b) tying-in arch wires that a dentist has fitted;

⁴ *Regulations of The College of Dental Surgeons of British Columbia, Auxiliary Bodies*, revised May 1995, Article 10.16. See also *National Occupational Classification 1992*, Major Group 34, No. 3411, Ottawa: Employment and Immigration Canada.

⁵ *Ibid.*, Article 10.17.

- (c) removing orthodontic arch wire;
- (d) removing excess cement or bonding material by means of hand instruments or ultrasonic hand instruments following banding/bonding and debanding/debonding procedures;
- (e) fitting orthodontic bands prior to assessment by a member;
- (f) taking impressions for the fabrication of orthodontic appliances;
- (g) fitting space maintainers prior to assessment by a member;
- (h) removing orthodontic bands and bonded attachments by means of hand instruments;
- (i) preparing teeth for direct bonding of attachments;
- (j) applying wax or other material to offending components or removing offending components;
- (k) placing and removing orthodontic separators;
- (l) fitting headgear prior to assessment by a member;
- (m) these duties within the Prosthodontic Module:
 - (i) fabricating provisional restorations intraorally;
 - (ii) trying-in provisional restorations and adjusting occlusion outside of the mouth;
 - (iii) removing provisional cement;
 - (iv) removing provisional restorations;
 - (v) temporary cementation of provisional restorations prior to assessment by a member.⁶

Notes:

Information on certified dental assistants was prepared from registration data maintained by the College of Dental Surgeons of British Columbia (CDSBC), and includes CDA's who were British Columbia residents at the date of record. Data presented in the tables are based on home address for the majority of certified dental assistants. Precise percentages of home versus employment or other address are not known. CDAs can register with the CDSBC as either *licensed* (formerly *active*) or *non-practising*. Licensed CDAs may legally practise their skills in B.C., non-practising CDAs remain on the register but may not practise.

DENTAL HYGIENISTS

Definition: A dental hygienist

... assesses the status of teeth and adjacent tissues and provides preventive and therapeutic dental hygiene care for teeth and adjacent tissues. The range of activities for a dental hygienist include:

- (a) clinical therapy;
- (b) health promotion;
- (c) education;
- (d) administration;
- (e) research.⁷

Notes:

Information on dental hygienists was prepared from registration data maintained by the College of Dental Hygienists of British Columbia (CDHBC), and includes dental hygienists who reported a British Columbia address at the date of record. Data presented in the tables are based on home address for the majority of dental hygienists. Precise percentages of home versus employment or other address are not known.

⁶ *Regulations*, op. cit., revised April 1996, Article 10.19.

⁷ Adapted from the regulations of the College of Dental Hygienists of British Columbia, Section 4. See also *National Occupational Classification 1992*, Major Group 32, No. 3222, Ottawa: Employment and Immigration Canada.

Dental hygienists included in these tables may be registered with the CDHBC as *Full, Limited, Residential Care* or *Non-Practising* registrants. Full, Limited and Residential Care registrants are those who may legally practice as dental hygienists in B.C. Limited registrants (formerly Conditionally licensed) hygienists are qualified to practise as dental hygienists, except that they are not authorised to administer local anaesthesia. Residential Care registrants meet all requirements for Full registration plus additional qualifications. Residential Care registration allows hygienists working in approved residential or long term care facilities to practice without a prior dentist examination of clients.⁸

The CDHBC amended its bylaws, and made several changes to their registration categories since 1997: they have dropped the use of the term licence in their registration categories; the registration category of Conditional has been replaced by the category of Limited; the registration category of Residential Care is new in 1999 for dental hygienists; and the Community Health (formerly dental public health hygienists) registration category has been eliminated and the CDHBC has “rolled” the former Community Health licensed hygienists into the Full registration category.⁸ As a result, the December 1997 data shown in the tables will differ from the December 1997 data shown in the *ROLLCALL 97* and *INVENTORY 97* tables where the Community Health licensed hygienists were included within the Conditional licence category.

DENTAL TECHNICIANS

Definition: A dental technician

...may, if the services can be performed without intraoral procedures or the taking of impressions:

- (a) make, produce, reproduce, construct, furnish, supply, alter or repair a denture, bridge or prosthetic appliance to be used in, on, in connection with, or in the treatment of a human tooth, jaw or associated structure or tissue in accordance with a prescription⁹ to perform any of those services;
- (b) make structural repairs to a removable dental prostheses or replace teeth in a denture without a prescription¹⁰;
- (c) supervise other registrants classified as students, temporary registrants and/or assistants in accordance with a supervision ratio specified in the Dental Technician Rules.¹⁰

Notes:

Information on dental technicians was prepared from data supplied by the College of Dental Technicians of British Columbia (CDTBC), and includes dental technicians who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address when employment address is available. In 1997 and 1999, employment address was available for 91% and 95% of dental technicians, respectively. Home address is used for the remainder.

A *Registered* dental technician is licensed by the CDTBC. A *Student* technician is enrolled in a dental technician training program listed in Schedule A of the Dental Technician Rules, and is registered by the CDTBC. After 18 months work experience, a Student technician is eligible to undertake the certifying exams to become a Registered dental technician. Prior to a change in the CDTBC bylaws in September 1997, students could remain registered with the CDTBC in the Student registration category for up to five years, thus the Student registration category, could in the past, contain multiple classes of students. The Student registration category now contains only students enrolled in the current class, i.e. only students in the current

⁸ Adapted from information supplied by the CDHBC.

⁹ "Prescription" refers to a document signed and dated by a dentist or medical practitioner that directs a dental technician to perform a service in accordance with the technician's certificate of registration.

¹⁰ Adapted from information received from the College of Dental Technicians of British Columbia (CDTBC).

school year may be registered as Students.¹¹ Thus, the data from 1997 for the registration category of Student are not comparable to the data for 1999, and have not been presented this year. Only the data on Registered dental technicians appear in the table this year.

DENTISTS

Definition: A dentist

...diagnoses and treats disorders of the teeth and mouth.

Dentists perform some or all of the following duties:

- (a) examine patients' teeth, gums, and surrounding tissue to diagnose disease, injury, and decay and plan appropriate treatment;
- (b) restore, extract, and replace diseased and decayed teeth;
- (c) perform oral surgery, periodontal surgery, and other treatments;
- (d) clean teeth and instruct patients on oral hygiene;
- (e) design bridgework, fit dentures and provide appliances to correct abnormal positioning of the teeth and jaws, or write fabrication instructions or prescriptions for use by denturists and dental technicians;
- (f) supervise dental hygienists, dental assistants and other staff.¹²

Notes:

Information on dentists was prepared from registration data maintained by the College of Dental Surgeons of British Columbia (CDSBC), and includes dentists who reported a British Columbia address at the date of record. Data presented in the tables are based on employment address for the majority of dentists. Precise percentages of home versus employment or other address are not known.

Dentists may be *licensed*, or hold *temporary* or *non-practising* status in the CDSBC. Licensed dentists are those who may legally practice in B.C. Temporary status may be held for up to one year for the purpose of lecturing or other educational activities in the province; temporary status dentists may not perform dental services for a fee. Non-practising status encompasses dentists who are fully registered with the CDSBC but do not have a licence to practice in this province.

DENTURISTS

Definition: A denturist

...is registered subject to terms and conditions established by the bylaws or set out in his certificate of registration...

- (a) to make, repair, reline, replace, or furnish upper or lower full dentures, or both, and for that purpose carry out non surgical intraoral procedures, including the taking of impressions that are necessary to make, repair, reline, replace or furnish upper or lower full dentures, or both, and
- (b) where the repairs or replacement can be done without intraoral procedures or the taking of impressions, make structural repairs to a removable dental prosthesis or replace teeth in a denture.¹³

¹¹ Adapted from information received from the College of Dental Technicians of British Columbia (CDTBC).

¹² Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3113, Ottawa: Employment and Immigration Canada.

¹³ Adapted from the Regulations of the College of Denturists of British Columbia. See also *National Occupational Classification 1992*, Major Group 32, No. 3221, Ottawa: Employment and Immigration Canada.

Notes:

Information on denturists was derived from data supplied by the College of Denturists of British Columbia (CDBC), and includes denturists who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address for the majority of denturists in 1999. Precise percentages of home versus employment or other address are not known in 1999. In 1997, employment address was available for 100% of *active* denturists, and home address was used for denturists when the registration status was *student* or *inactive*.

An active denturist is registered by the College of Denturists of British Columbia. A student denturist is registered by the College of Denturists of British Columbia and may only perform services under the supervision of an active denturist. After 18 months work experience, a student denturist is eligible to undertake the registration exams to become an active denturist. Inactive registration may be elected by a registrant who is not currently working in the field.¹⁴

CARDIOLOGY TECHNOLOGISTS

Definition: A cardiology technologist

...operates electrocardiographs and other electronic equipment to record cardiac activity of patients to aid in the diagnosis and treatment of heart disease.

Cardiology technologists perform some or all of the following duties:

- (a) utilise electrocardiographs and various related computerised equipment, to obtain significant cardiac data;
- (b) conduct various cardiac tests, such as electrocardiograms, ambulatory monitoring, exercise tolerance tests, pacemaker threshold testing, and pacemaker analysis tests;
- (c) obtain pharmacological and cardiac history;
- (d) monitor and analyse cardiac activity and record results;
- (e) select and record cardiac data for interpretation by physicians;
- (f) assess current pacemaker parameters and reprogram for optimal standards;
- (g) assist surgeon in operating room by testing pacemaker thresholds during pacemaker lead and generator implants and provide backup pacing
- (h) ensure that all cardiology equipment is functioning appropriately.¹⁵

Notes:

Information on cardiology technologists was prepared from the membership list provided by the Cardiology Technologists Association of British Columbia (CTABC), and includes cardiology technologists who were residents of British Columbia at the date of record. Data presented in the tables are based on home address for all cardiology technologists. The March 1998 data were obtained during a membership renewal cycle and may not accurately reflect membership at that time.

Registered members of the CTABC are persons engaged in the field of Cardiology who have completed a one year certificate course of Cardiology technology from a college/technical institute or two years of training in the field and one year with the Canadian Society of Cardiology Technologists Inc. (CSCT Inc.) study course of theory and technique, and who have passed Registration examinations set by the CSCT Inc.

¹⁴ Adapted from the Bylaws of the College of Denturists of British Columbia, December 1996, Part V.

¹⁵ Adapted from *National Occupational Classification 1992*, Major Group 32, No. 3217, Ottawa: Employment and Immigration Canada and from information provided by the Cardiology Technologists Association of B.C.

Advanced Registered members are persons engaged in the field of Cardiology who have been registered members for one full year, and who passed the Advanced examinations formerly offered by the CSCT Inc. The Advanced examinations are no longer offered by the CSCT Inc. *Associate* members are persons enrolled as a student in a college/technical institute certificate course of Cardiology technology, which is recognised by the CSCT Inc., or engaged in the field of Cardiology, who have not undertaken and passed the Registration examinations set by the CSCT Inc.¹⁶ Members with *inactive, life, affiliate, business, or student* membership status are not included.

DIAGNOSTIC MEDICAL SONOGRAPHERS

Definition: A diagnostic medical sonographer

...operates diagnostic ultrasound equipment to produce and record images of various parts of the body to produce an interpretative report to aid physicians in diagnosing cardiac, obstetrics/gynaecological, abdominal, vascular, ophthalmic and other disease states.

Diagnostic medical sonographers perform some or all of the following duties:

- (a) operate diagnostic ultrasound imaging equipment that transmits high frequency sound waves through the body to produce images;
- (b) optimise the ultrasound equipment during the examination to ensure quality and consistency of diagnostic images;
- (c) observe and care for patients throughout examinations to ensure patient safety and comfort;
- (d) prepare interpretative reports for physicians to aid in the diagnosis of cardiac, obstetrics/gynaecological, abdominal, vascular, ophthalmic and other disease states;
- (e) routinely perform quality assurance to ensure proper system performance.¹⁷

Notes:

Information on diagnostic medical sonographers in British Columbia at the date of record was prepared from a list of registrants of the American Registry of Diagnostic Medical Sonographers (ARDMS). Data presented in the tables are based on home address for the majority of diagnostic medical sonographers this year. Precise percentages of home versus employment or other address are not known.

No comparisons with the 1997 data are presented in the tables as the data sources for 1997 and 1999 differ. In 1997, membership data from the British Columbia Ultrasonographers' Society (BCUS) and registration data from the ARDMS were included. The BCUS indicated this year that all of their members, except possibly one or two new grads, are also currently registered with the ARDMS, so separate membership data from the BCUS were not collected in 1999.

¹⁶ Adapted from information provided by the Cardiology Technologists Association of B.C.

¹⁷ Adapted from *National Occupational Classification 1992*, Major Group 32, No. 3216, Ottawa: Employment and Immigration Canada and from information provided by the British Columbia Ultrasonographers' Society, August 2000.

MEDICAL LABORATORY TECHNOLOGISTS

Definition: A medical laboratory technologist

...conducts medical laboratory tests, experiments, and analyses to assist in the diagnosis, treatment, and prevention of disease.

Medical laboratory technologists perform some or all of the following duties:

- (a) conduct chemical analyses of blood, urine, cerebro-spinal and other body fluids;
- (b) study blood cells and other tissue to determine their relation to various physiological and pathological conditions;
- (c) prepare tissue sections for microscopic examinations using techniques to demonstrate special cellular tissue elements or other characteristics;
- (d) establish procedures for the analysis of specimens and for medical laboratory experiments;
- (e) perform blood group, type and compatibility tests for transfusion purposes;
- (f) may supervise and train other medical laboratory technologists and other medical laboratory workers.¹⁸

Notes:

Information on medical laboratory technologists was derived from the membership data supplied by the Canadian Society for Medical Laboratory Science (CSMLS), and includes medical laboratory technologists who reported a British Columbia address at the date of record. Members are classified by the CSMLS according to their training and practice. Where members have more than one certificate, the most recently obtained is used. Data presented in the tables are based on home address for the majority of medical laboratory technologists. Precise percentages of home versus employment or other address are not known.

A *certified active* member has passed the required examinations and is currently employed in medical laboratory technology in British Columbia. A *certified inactive* member has passed the required examinations, but is not currently employed in medical laboratory technology in British Columbia. A *subscriber (non-certified)* is a member who has met medical laboratory technology standards in another country, but has not yet taken the Canadian examinations for certification. These members generally are employed in the field. A *trainee* member or a *student trainee* member is a student, and not considered to be part of the work force.¹⁹

MEDICAL RADIATION TECHNOLOGISTS

Definition: A medical radiation technologist

...operates radiographic, radiation therapy, and magnetic resonance equipment to administer radiation treatment and produce images of body structures for the diagnosis and treatment of injury and disease.

Four major areas for employment are diagnostic radiography, radiation therapy, nuclear medicine and magnetic resonance imaging.

¹⁸ Adapted from *National Occupational Classification 1992*, Major Group 32, No. 3211, Ottawa; Employment and Immigration Canada.

¹⁹ Adapted from information received from the Canadian Society for Medical Laboratory Science.

(I) Diagnostic radiographers perform some or all of the following duties:

- (a) operate X-ray, radiographic, and fluoroscopic equipment, specialised CT scanners, and mammography units to produce radiographs or images of body structures for diagnosis by radiologists of disease or injury;
- (b) record and process patient data;
- (c) perform scheduled maintenance and minor emergency repairs on radiographic equipment;
- (d) may train and supervise student radiographers or supervise other radiography technologists.²⁰

(II) Radiation therapists perform some or all of the following duties:

- (a) operate linear accelerators, cobalt 60, X-ray, and other radiation therapy equipment to administer radiation treatment prescribed by radiation oncologists;
- (b) check radiation therapy equipment to ensure proper operation;
- (c) assist radiation oncologists and clinical physicians with preparation of radiation treatment plans;
- (d) assist in the preparation of sealed radioactive materials such as cobalt, radium, caesium, and isotopes and the construction of devices such as plaster casts and acrylic moulds to assist with administration of radiation treatment;
- (e) may train and supervise student radiotherapy technologists or supervise other radiotherapy technologists.²⁰

(III) Nuclear medicine technologists perform some or all of the following duties:

- (a) prepare radiopharmaceuticals, such as radionuclides and other materials and administer them to patients or to biological samples;
- (b) operate radiation detection equipment, such as gamma cameras, scanners, scintillation counters and ionisation chambers, to acquire data for use by nuclear medicine physicians in the diagnosis of disease;
- (c) perform diagnostic procedures using radioactive materials on biological specimens, such as blood, urine and faeces;
- (d) record and process results of procedures;
- (e) check equipment to ensure proper operation;
- (f) may train and supervise student nuclear medicine technologists or supervise other nuclear medicine technologists.²⁰

(IV) Magnetic resonance technologists perform some or all of the following duties:

- (a) operate magnetic resonance imaging (MRI) scanners which use magnetism, radio waves and computers to produce images of the cardiovascular system, tumours (especially brain and spinal column), and soft tissues (such as muscles, tendons, or arteries), and for studying body chemistry and functions;
- (b) explain procedure to the patient, monitor patient during scan, and provide comfort and emotional support to patient;
- (c) ensure safety of patients and staff around the magnetic field;
- (d) contribute to patient education.²¹

²⁰ Adapted from *National Occupational Classification 1992*, Major Group 32, No. 3215, Ottawa: Employment and Immigration Canada.

²¹ Adapted from the description of Magnetic Resonance Technologists provided on the Canadian Association of Medical Radiation Technologists (CAMRT) web site (<http://www.camrt.ca/mrtc/mrtech.htm>).

Notes:

Information on medical radiation technologists was derived from membership data supplied by the British Columbia Association of Medical Radiation Technologists (BCAMRT), and includes qualified members with a British Columbia address at the date of record. The data presented in these tables are based on employment address when employment address is available. In 1998 and 2000, employment address was available for 96% and 100% of employed BCAMRT members, respectively. Home address is used for the remainder.

A *Full Practice Member* (formerly listed as *Member*) is a medical radiation technologist who is a practising member of the Canadian Association of Medical Radiation Technologists (CAMRT) by virtue of having successfully completed a training programme in a discipline of the CAMRT and passed a qualifying certification examination set by the CAMRT or Ordre des technologues en radiologie du Quebec. A *Senior Member* is a medical radiation technologist who has been a member of the CAMRT for thirty years and a member of the BCAMRT for the last ten of those years. A *Limited Practice Member* is a medical radiation technologist who is restricted in his/her practice as delineated by the Canadian Association of Medical Radiation Technologists (CAMRT) Curriculum for Certification, as a result of educational qualifications.²² There were no Limited Members in February 1998 or June 2000, so this category does not appear in the tables. A *Non-Practising Member* is a CAMRT certified medical radiation technologist who has temporarily or permanently discontinued his/her practice, but who wishes to maintain his/her relationship with the BCAMRT.²³ *Associate Members* who may or may not be working in the field but do not qualify for full BCAMRT membership, *transferred members* who no longer work in B.C., and *Life Members* are excluded from all tables.

CHIROPRACTORS

Definition: A chiropractor

...diagnoses and treats patients' disorders of the spine and other body joints by adjusting the spinal column or through other corrective manipulation.

Chiropractors perform some or all of the following duties:

- (a) take patients' case history, conduct examinations, observe patients, and perform or order x-rays and other tests to diagnose patients' conditions;
- (b) diagnose disorders of the spine and other body joints;
- (c) treat those patients whose symptoms result from abnormal musculoskeletal conditions or joint mechanics through the corrective manipulation of the spinal column or other joints and may use such additional treatments as heat, light and massage;
- (d) advise patients on corrective exercises, lifestyle and nutrition.²⁴

Notes:

Information on chiropractors was derived from the Register of the British Columbia College of Chiropractors (BCCC), and includes registered chiropractors who reported a British Columbia address at the date of record. Data presented in the table are based on employment address for the majority of chiropractors. Precise percentages of home versus employment or other address are not known.

²² Adapted from the Bylaws of the BCAMRT, dated May 1998.

²³ Adapted from the description of the membership category of Non-Practising provided on the BCAMRT web site (<http://www.bcamrt.bc.ca/membership.html#nonpract>).

²⁴ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3122, Ottawa: Employment and Immigration Canada.

EMERGENCY MEDICAL ASSISTANTS

Definition: An emergency medical assistant

...provides first aid, nursing, and medical services to minimise disability or loss of life in emergency situations. An emergency medical assistant (EMA) will be skilled in the areas of first aid, general ambulance practices and procedures, basic nursing, patient assessment, specialised diagnostics, and treatments.

An emergency medical assistant first responder (EMA FR) may be employed with a police force, a fire department, or an agency approved by the Emergency Health Services Commission (EHSC) such as a Native Band Council. All other EMA's are employed either with the EHSC or with a contractor who has a contract for service with the EHSC.

Emergency medical assistants are categorised as follows:

- (a) *Emergency Medical Assistant First Responder (EMA FR)*
Receive 4 to 32 hours of training. Acting as an EMA is generally not a primary duty.
- (b) *Emergency Medical Assistant First Aid (EMA FA)*
Receive approximately 70 hours of training. Many EMA FA's eventually receive the necessary training, mostly related to ambulance operation, to move to EMA 1 status.
- (c) *Emergency Medical Assistant 1 (EMA 1)*
Receive approximately 80 hours of training. An EMA 1 candidate must have a secondary school education and an Industrial First Aid (IFA) certificate. An EMA 1 is expected to work to strict protocol. He/she will make only limited decisions about patient management.
- (d) *Emergency Medical Assistant 2 (EMA 2)*
Receive 240 hours of training. An EMA 2 candidate must have successfully completed EMA 1 training. EMA 2 training is focused on developing patient assessment skills to a level where the attendant knows why certain measures are taken, and how certain conditions can worsen or improve depending on actions taken. These improved assessment skills assist the EMA 2 in revealing underlying conditions which may not otherwise be discovered.
- (e) *Emergency Medical Assistant 3 - Advanced Life Support (EMA 3 (ALS))*
Receive 56 weeks of training. A candidate for EMA 3 (ALS) must have an EMA 2 licence and three years of full-time ambulance experience.
- (f) *Emergency Medical Assistant 3 - Infant Transport Team (EMA 3 (ITT))*
Receive 18 months of training. An EMA 3 (ITT) candidate must have an EMA 2 licence and three years of full-time ambulance experience. EMA 3 (ITT)'s are only employed in Vancouver, and are mostly involved in hospital to hospital transport.²⁵

Notes:

Information on emergency medical assistants was prepared from registration data maintained by the Emergency Medical Assistants Licensing Board (EMALB) of the B.C. Ministry of Health, and includes only *licensed* emergency medical assistants who reported a British Columbia address at the date of record. Data presented in the tables are based on employment address for all EMA's. First Responders are shown as separate categories, as the level of training is quite different from other EMA's. In addition, as stated above acting as an EMA is not generally a primary work duty for first responders.

²⁵ Adapted from the Health Emergency Act, R.S.B.C.1996, Chapter 182, and from information provided by the Emergency Medical Assistants Licensing Board, Ministry of Health, Province of British Columbia, January 1994.

MIDWIVES

Definition: A midwife

...carries out examinations necessary to establish and monitor normal pregnancies, manages normal deliveries and advises pregnant women as soon as any pregnancy at risk is detected.

Midwives may perform some or all of the following duties:

- (a) counsel and educate women concerning diet, exercise and other prenatal health practices;
- (b) monitor the condition of the mother and the baby during labour and guide the birthing process;
- (c) take appropriate measures when an emergency arises and arrange for contact with physicians (obstetricians);
- (d) examine and care for newborn babies, and educate mothers on health care;
- (e) conduct classes on pregnancy and childbirth, as well as family planning and other related topics in the community.²⁶

Notes:

Information on midwives was derived from data supplied by the College of Midwives of British Columbia (CMBC), and includes midwives who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address for the majority of midwives. Precise percentages of home versus employment or other address are not known.

A *General (formerly Initial)* registrant is a fully registered midwife with the CMBC. In the first two years of the CMBC's existence (from April 3, 1997 to April 3, 1999) the College registered midwives under the former category of Initial. The Initial category has now been replaced with General. A *Conditional* registrant is a midwife who has been identified through the CMBC assessment procedure to have a discrete gap in her/his clinical or theoretical knowledge at the time of registration. Conditional registrants must practice under the supervision of a General registrant for a period up to 12 months.²⁷ All registrants must remain active in both the home and hospital environments.

NATUROPATHIC PHYSICIANS

Definition: A naturopathic physician

...is a primary care practitioner who utilises various methods of diagnostic testing to assist in the treatment and prevention of disease.²⁸

Common therapeutic modalities utilised by naturopathic physicians include, but are not limited to:

- (a) *Nutritional Counselling* -- Specific individual diets including vitamins, mineral and other nutritional supplements to strengthen the body.
- (b) *Botanical (herbal) Medicine* -- Plant substances for their healing effects and nutritional value.
- (c) *Homeopathy* -- Minute amounts of natural substances to stimulate the body's self-healing abilities.
- (d) *Manipulation* -- Corrections of stress or trauma-induced misalignments of muscle, connective tissue and the skeletal system.

²⁶ Adapted from *National Occupational Classification 1992*, Major Group 32, No. 3232, Ottawa: Employment and Immigration Canada.

²⁷ Adapted from information supplied by the College of Midwives of B.C.

²⁸ From information provided by the Association of Naturopathic Physicians of British Columbia.

- (e) *Physical Medicine* -- The therapeutic use of water, light, electricity, ultra-sound, massage and exercise.
- (f) *Chinese Medicine* -- Includes the use of acupuncture, electrodiagnosis and Chinese herbology.
- (g) *Psychological Services* -- Counselling, hypnotherapy, emotional support and biofeedback.²⁹

Notes:

Information on naturopathic physicians was derived from the Register of the Association of Naturopathic Physicians of British Columbia (ANPBC),³⁰ and includes only registered *active members* of the ANPBC in practice in British Columbia at the date of record. *Associate members* of the ANPBC have been excluded from the table since they are not involved in active practice in the province. Data presented in the tables are based on the employment address of naturopathic physicians.

OPTICIANS

Definition: An optician

...fits clients with prescription eyeglasses or contact lenses, assists clients in the selection of eyeglass frames, arranges for the production of eyeglasses or contact lenses and mounts lenses in eyeglass frames.

Opticians may perform some or all of the following duties:

- (a) obtain specifications for eyeglasses or contact lenses from a prescription prepared by an ophthalmologist or optometrist or by analysing the client's eyeglasses or contact lenses, and by measuring the client's eye curvature, pupillary distance and bridge width, using optical measuring devices;
- (b) assist clients in selecting eyeglasses by advising on lens materials, frames, tints and anti-reflection coating;
- (c) advise on use and care of contact lenses;
- (d) arrange for grinding and polishing of lenses or grind and polish lenses;
- (e) cut and edge lenses and fit lenses into frames;
- (f) adjust finished eyeglasses to fit client;
- (g) supervise or manage the activities of other opticians or student opticians.³¹

Notes:

Information on opticians was derived from data supplied by the College of Opticians of British Columbia (COBC), and includes opticians who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address when the membership status is *licensed*, and when employment address is available. In May 1998 and November 1999, employment address was available for 96.2% and 95.2% of licensed opticians, respectively. Home address is used for the remainder, and for opticians with non-practising or student membership status.

A *licensed dispensing optician* is licensed by the College of Opticians of B.C. to provide dispensing services for eyeglasses. They are not permitted to dispense contact lens. A *licensed contact lens fitter* is

²⁹ *Questions and Answers about Naturopathic Medicine and Naturopathic Physicians*. See also *National Occupational Classification 1992*, Major Group 31, No. 3123, Ottawa: Employment and Immigration Canada.

³⁰ Please note, effective January 1, 2000, naturopathic physicians were designated under the *Health Professions Act, R.S.B.C. 1996, Chapter 183*, and the *Naturopaths Act, R.S.B.C. 1996, Chapter 332* was repealed. At the dates of record, however, the *Naturopaths Act* was still in effect. Under the *Health Professions Act*, the College of Naturopathic Physicians of British Columbia will replace the Association of Naturopathic Physicians of British Columbia as the regulatory body for naturopathic physicians in B.C.

³¹ Adapted from *National Occupational Classification 1992*, Major Group 32, No. 3231, Ottawa: Employment and Immigration Canada.

licensed by the College of Opticians of B.C. to provide dispensing services for both eyeglasses and contact lens. Licensed contact lens fitters have had additional training in fitting contact lens. A *non-practising dispensing optician* is currently not employed in the field of opticianry, but must be able to meet the requirements for full registration as a dispensing optician by the College of Opticians of B.C. A *non-practising contact lens fitter* is currently not employed in the field of opticianry, but must be able to meet the requirements for full registration as a contact lens fitter by the College of Opticians of B.C. A *student contact lens fitter* is enrolled in an approved contact lens program. The College of Opticians of B.C. has three registration categories for student contact lens fitters: student contact lens fitter, dispensing optician license/student contact lens fitter, and non-practising optician/student contact lens fitter.³²

OPTOMETRISTS

Definition: An optometrist is

...an independent primary-care health provider who specialises in the examination, diagnosis, treatment, management, and prevention of disease and disorders of the visual system, the eye and associated structures. Patient management includes: prescribing glasses and contact lenses; vision therapy or orthoptics; low vision aids and monitoring the ocular effects of systemic disease; systemic drugs and therapy; and referral for consultation to the appropriate practitioner for the treatment of ocular or systemic disease or eye surgery.³³

Notes:

Information on optometrists was derived from the Association Roll supplied by the British Columbia Association of Optometrists (BCAO), and includes licensed optometrists who reported a British Columbia address at the date of record. Data presented in the table are based on employment address for the majority of optometrists. Precise percentages of home versus employment or other address are not known.

PHARMACISTS

Definition: A pharmacist

...is responsible for the "practice of pharmacy", which includes the practice of and responsibility for:

- (a) interpretation and evaluation of prescriptions;
- (b) compounding, dispensing and added labelling of drugs and devices;
- (c) monitoring drug therapy;
- (d) identification, assessment and recommendations necessary to resolve or prevent drug related problems in patients;
- (e) advising persons of the therapeutic values, content and hazards of drugs and devices;
- (f) safe storage of drugs and devices;
- (g) maintenance of proper records, including patient records, for drugs and devices;
- (h) services, duties and transactions necessary to the management, operation and control of a pharmacy or to provide pharmacy services in a hospital, facility or care centre;
- (i) sale of drugs by pharmacists.³⁴

³² Adapted from information supplied by the College of Opticians of B.C., and from the Bylaws of the College of Opticians of B.C. as listed under Canadian Licensing Information for British Columbia on the web site of The Opticians Association of Canada (www.opticians.ca/english/practice1.htm#BRITISH_COLUMBIA).

³³ Adapted from information provided by the British Columbia Association of Optometrists. See also *National Occupational Classification 1992*, Major Group 31, No. 3121, Ottawa: Employment and Immigration Canada.

³⁴ Adapted from information provided by the College of Pharmacists of British Columbia. See also *National Occupational Classification 1992*, Major Group 31, No. 3131, Ottawa: Employment and Immigration Canada.

Notes:

Information on pharmacists has been prepared from registration data maintained by the College of Pharmacists of British Columbia (CPBC), and includes licensed pharmacists who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address when pharmacists report employment in pharmacy. In April 1998 and April 2000, employment address was available for 99.6% and 99.7% of pharmacists employed in pharmacy, respectively. Home address is used for the remainder, as well as for pharmacists not employed in pharmacy.

PHYSICIANS

Definition: A physician in general practice

...diagnoses and treats the diseases, physiological disorders, and injuries of patients.

Physicians in general practice perform some or all of the following duties:

- (a) examine patients, order laboratory tests, X-rays, and other diagnostic procedures and consult with other medical practitioners to evaluate patients' health;
- (b) prescribe and administer medications and treatments;
- (c) perform and assist in routine surgery;
- (d) inoculate and vaccinate patients;
- (e) deliver babies and provide pre-natal and post-natal care;
- (f) advise patients on health care;
- (g) report births, deaths and contagious diseases to governmental authorities.³⁵

Specialist physicians include those who practice in clinical medicine, laboratory medicine, or surgery. Specialists in clinical medicine diagnose and treat diseases and physiological or psychiatric disorders and act as consultants to other physicians. Specialists in laboratory medicine study the nature, cause and development of diseases in humans. Specialists in surgery perform and supervise surgical procedures.³⁶

Osteopaths diagnose disorders and injuries of the musculo-skeletal, circulatory and nervous systems. Treatments include manipulative therapy, medications, or surgery.³⁷ Osteopaths are regulated under the Medical Practitioners Act and must be registered by the College of Physicians and Surgeons of British Columbia in order to practise in the province. There is currently only one directory active osteopath in the province; he/she is not included in any of the tables.

Notes:

Information on physicians was derived from the College of Physicians and Surgeons of British Columbia (CPSBC) physician database and includes physicians who, at the date of record, were registered by the CPSBC on the *full*, *special* or *temporary* registers. Physicians on these registers are designated Directory Active and are licensed to practise medicine in British Columbia. The temporary register includes those who are in postgraduate training or who have a temporary licence to practise. Data presented in the tables are

³⁵ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3112, Ottawa; Employment and Immigration Canada.

³⁶ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3111, Ottawa; Employment and Immigration Canada.

³⁷ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3123, Ottawa; Employment and Immigration Canada.

based on employment address for the majority of physicians. Precise percentages of home versus employment or other address are not known.

Directory Active physicians may be either *Non-Postgraduate* physicians who, according to the records of the CPSBC, are not involved in postgraduate work or *Postgraduate* physicians who, according to the records of the CPSBC, are involved in postgraduate work. *Postgraduate* physicians may be fully registered or on the temporary, educational register.

PODIATRISTS

Definition: A podiatrist

...diagnoses diseases, deformities, and injuries of the human foot and treats patients using braces, casts, shields, splints, physical therapy, medications, or surgery.³⁸

Notes:

Information on podiatrists was derived from the register supplied by the British Columbia Association of Podiatrists (BCAP), and includes *registered* podiatrists who reported a British Columbia address at the date of record. Data presented in the tables are based on employment address for all podiatrists.

LICENSED PRACTICAL NURSES

Definition: A licensed practical nurse

...may be employed in a wide variety of health care settings and may carry out such nursing duties related to the care of patients as are consistent with [his/her] training and ability. All such duties are to be carried out under the direction of a duly qualified physician who is attending the patient, or under the supervision of a registered nurse who is providing service to the patient, except in an emergency when the services of a licensed practical nurse may be urgently required. Provided that the attending physician gives directions and assumes responsibility with respect to the ability of licensed practical nurses (LPN's) to carry out such services in a satisfactory manner, LPN's may also undertake nursing service for patients in private homes.³⁹

Notes:

Information on licensed practical nurses (LPN's) was prepared from registration data maintained by the College of Licensed Practical Nurses of British Columbia (CLPNBC), and includes LPN's who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address when the registration status is *practising*, when employment in nursing is reported, and when employment address is available. In 1999, employment address was available for 89% of practising LPN's employed in nursing. Home address is used for the remainder, as well as for practising LPN's who are not employed in nursing, and for LPN's with non-practising registration status.

LPN's can now register with the CLPNBC as either *practising* or *non-practising*. Because of the introduction of the new registration categories, the data are not comparable to 1997.

³⁸ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3123, Ottawa: Employment and Immigration Canada.

³⁹ Adapted from information provided by the College of Licensed Practical Nurses of British Columbia, and the Licensed Practical Nurses Regulation (under the Health Professions Act), B.C. Reg. 71/96. See also *National Occupational Classification 1992*, Major Group 32, No. 3233, Ottawa: Employment and Immigration Canada.

REGISTERED NURSES

Definition: A registered nurse

...performs for others health care services which require the application of professional nursing knowledge and skills. The practice of nursing includes:

- (a) promoting, maintaining or restoring the health of the general public;
- (b) teaching nursing theory or practice;
- (c) counselling persons in respect of health care;
- (d) coordinating health care services;
- (e) engaging in administration, supervision, education, consultation, teaching or research for any of the foregoing.⁴⁰

Notes:

Information on registered nurses (RN's) was prepared from registration data maintained by the Registered Nurses Association of British Columbia (RNABC), and includes RN's who reported a British Columbia address at the date of record. An RN may hold a *practising* or *non-practising* membership in the RNABC. A practising RN may or may not be employed in nursing. A non-practising RN who commences employment in nursing in British Columbia must convert to practising membership. The data in the tables are presented based on employment address when the membership status is practising, when employment in nursing is reported, and when employment address is available. In 1997 and 1999, employment address was available for 89% and 88% of practising RN's employed in nursing, respectively. Home address is used for the remainder, as well as for practising RN's who are not employed in nursing, and for RN's with non-practising membership status.

The date of record for RN's has changed from June of each year to December of each year. The data shown for 1997 will therefore differ from those published in *INVENTORY 97* and *ROLLCALL 97*.

There was a small number of RN's dually registered with the Registered Psychiatric Nurses Association of British Columbia (see text on RPN's). Dual registrants are included in both the RN and RPN categories.

LICENSED GRADUATE NURSES

Definition: A licensed graduate nurse

- (a) was employed in British Columbia, in a capacity substantially equivalent to a registered nurse, at any time during the two years prior to September 30, 1988;
- (b) graduated from a school of nursing that has standards substantially equivalent to those of any approved school of nursing, and;
- (c) was never a registered nurse, and at the time of application to the RNABC did not qualify as a registered nurse.⁴¹

Notes:

Information on licensed graduate nurses (LGN's) was derived from registration data maintained by the Registered Nurses Association of British Columbia (RNABC) and includes LGN's who reported a British

⁴⁰ Adapted from the Rules under the *Nurses (Registered) Act*, R.S.B.C. 1996, Chapter 335, Part 2, s.2.1. (Information provided by the Registered Nurses Association of British Columbia.)

⁴¹ Adapted from the *Nursing Statutes Amendment Act*, S.B.C. 1988, Chapter 51, Section 15.

Columbia address at the date of record. An LGN may hold a *practising* or *non-practising* membership in the RNABC. A practising LGN may or may not be employed in nursing. A non-practising LGN who commences employment in nursing in British Columbia must convert to practising membership. The data in the tables are presented based on employment address when the membership status is practising, when employment in nursing is reported, and when employment address is available. In 1997 and 1999, employment address was available for 90% of practising LGN's employed in nursing. Home address is used for the remainder, as well as for practising LGN's who are not employed in nursing, and for LGN's with non-practising membership status.

REGISTERED PSYCHIATRIC NURSES

Definition: A registered psychiatric nurse

...practises in primary, secondary and tertiary care settings and provides service to individuals whose primary care needs relate to mental and developmental health.

The basis of psychiatric nursing is a caring, therapeutic relationship; the core knowledge and skills of psychiatric nursing are developed from the nursing, psycho-social, biological, and physical sciences.

Psychiatric nursing practice includes clinical, administrative, educational, consultative and research functions.⁴²

Notes:

Information on registered psychiatric nurses (RPN's) was prepared from data maintained by the Registered Psychiatric Nurses Association of British Columbia (RPNABC) and the College of Registered Psychiatric Nurses of British Columbia (CRPNBC),⁴³ and includes RPN's who reported a British Columbia address at the date of record. An RPN may hold either a *practising* or *non-practising* membership with the CRPNBC. A practising RPN must be employed in nursing. A non-practising RPN may not actively engage in the practise of psychiatric nursing. The data in the tables are presented based on employment address when the membership status is practising and employment address is available. In October 1997 and December 1999, employment address was available for 92% and 95% of practising RPN's respectively. Home address is used for the remainder, as well as for RPN's with non-practising status.

In 1999, 359 practising and 117 non-practising RPN's held dual registration with the Registered Nurses Association of British Columbia (RNABC) and the CRPNBC. The numbers for 1997 were 337 practising and 109 non-practising nurses. Dual registrants are included in both the RN and RPN categories.

⁴² Adapted from information provided by the Registered Psychiatric Nurses Association of British Columbia. See also *National Occupational Classification 1992*, Major Group 31, No. 3152, Ottawa; Employment and Immigration Canada.

⁴³ Effective April 1999, registered psychiatric nurses were designated under the *Health Professions Act, R.S.B.C. 1996, Chapter 183*, and the *Nurses (Registered Psychiatric) Act, R.S.B.C. 1996, Chapter 336* was repealed. The College of Registered Psychiatric Nurses of British Columbia (CRPNBC) replaced the Registered Psychiatric Nurses Association of British Columbia (RPNABC) as the regulatory body for registered psychiatric nurses at that time.

DIETITIANS AND NUTRITIONISTS

Definition: A dietitian/nutritionist

...is a professional uniquely prepared for the practise of nutrition care through university education and required practicum in food and nutrition as well as biological, social and management sciences. The dietitian/nutritionist applies knowledge and skills in normal and therapeutic nutrition and in food service systems management to individuals, groups, institutions, organisations and the community.⁴⁴

Notes:

Information on registered dietitians and nutritionists (RDN's) was derived from the membership database of the British Columbia Dietitians' and Nutritionists' Association (BCDNA), and includes RDN's who reported a British Columbia address at the date of record. The data in the tables are presented based on employment address when employment in dietetics/nutrition is reported and when employment address is available. In 1997 and 1999, employment address was available for 94% and 97% of RDN's employed in dietetics/nutrition. Home address was used for the remainder, as well as for RDN's who were not employed in dietetics/nutrition.

COUNSELLORS

Definition: A counsellor

...assists individuals and groups of clients to identify, understand and overcome personal problems or achieve personal objectives.

Counsellors perform some or all of the following duties:

- (a) Interview clients, prepare case histories and assess problems;
- (b) develop and implement counselling and intervention programs to assist clients in determining goals and means to attain them;
- (c) counsel clients and provide therapy;
- (d) evaluate the effectiveness of counselling programs and clients' progress in resolving identified problems and movement toward identified objectives;
- (e) follow up the results of counselling programs and clients' adjustments;
- (f) may supervise other counsellors, social service staff and assistants;
- (g) may provide public education and consultation to other professionals or groups regarding counselling services, issues and methods.⁴⁵

Notes:

Information on counsellors was derived from membership data obtained from the British Columbia Association of Clinical Counsellors (BCACC), and includes counsellors who reported a British Columbia address at the date of record. The information presented in these tables is based on employment address for the majority of counsellors. Precise percentages of home versus employment or other address, however, are not known. This is further complicated by the fact that many counsellors work in private practice from their homes, so work and home addresses are identical.

⁴⁴ Adapted from information provided by the Canadian Dietetic Association. See also *National Occupational Classification 1992*, Major Group 31, No. 3132, Ottawa; Employment and Immigration Canada.

⁴⁵ Adapted from *National Occupational Classification 1992*, Major Group 41, No. 4153, Ottawa; Employment and Immigration Canada.

The tables by no means represent an exhaustive listing of persons self-identified as counsellors in British Columbia. Membership information was requested from the British Columbia Association of Clinical Counsellors (BCACC) and the British Columbia Association for Marriage and Family Therapy (BCAMFT) as both bodies require that members meet specific educational and training standards for membership. A further reason for requesting data from both of these groups is the minimal degree of overlap between their respective memberships (i.e., only 14 counsellors were members of both organisations in 1995). However, the BCAMFT did not supply data for either *INVENTORY 97* or *INVENTORY 99*, so the tables only include data on BCACC members.

The tables include *registered* and *qualifying* members of the BCACC in 1998, and *registered* members of the BCACC in 2000. In 1998, a counsellor could be either a registered or qualifying member in the BCACC, but as of April 1999 the BCACC changed its bylaws eliminating the qualifying member category. A registered member has met both academic and full-time paid experience requirements for registration. In 1998, a qualifying member had met the academic requirements, but not the two year full-time paid experience requirement for registration. Members of the BCACC who are honorary, inactive, student or retired members are not included in the tables.

PSYCHOLOGISTS

Definition: A psychologist

...diagnoses psychological and emotional disorders, counsels clients, provides therapy and research, and applies theory relating to behaviour and mental processes.

Psychologists perform some or all of the following duties:

- (a) examine behaviour, diagnose psychological and emotional disorders, counsel clients, and provide therapy;
- (b) counsel individuals and groups to achieve more effective personal, social, and vocational development and adjustment;
- (c) apply psychological theory and principles regarding behaviour and mental processes such as learning, memory, perception, and language development;
- (d) formulate hypotheses and experimental designs, review literature, conduct studies, and publish research papers.⁴⁶

Notes:

Information on psychologists was prepared from registration data maintained by the College of Psychologists of British Columbia (CPBC),⁴⁷ and includes registered psychologists who reported a British Columbia address at the date of record. Psychologists can register with the CPBC with either *practising* or *non-practising* status. Members with non-practising status may not offer psychological services to the general public, but may be employed by such institutions as School Boards or Universities. The data in the tables are presented based on employment address when psychologists report employment in psychology and employment address is available. In 1997 and 2000, employment address was available for 98% of psychologists employed in psychology. Home address is used for the remainder, as well as for psychologists not employed in psychology.

⁴⁶ Adapted from *National Occupational Classification 1992*, Major Group 41, No. 4151, Ottawa: Employment and Immigration Canada.

⁴⁷ Please note, effective January 1, 2000, psychologists were designated under the *Health Professions Act, R.S.B.C. 1996, Chapter 183*, and the *Psychologists Act, R.S.B.C. 1996, Chapter 381* was repealed.

AUDIOLOGISTS AND SPEECH/LANGUAGE PATHOLOGISTS

Definition: (I) An audiologist

...diagnoses, evaluates, and treats hearing disorders.

Audiologists perform some or all of the following duties:

- (a) administer audiometric tests to diagnose and evaluate the degree and type of hearing impairment;
- (b) plan and implement rehabilitation programs for patients, including selection and fitting of hearing aids, speech (lip) reading, and counselling;
- (c) consult with physicians, nurses, psychologists, and other health care personnel to help plan treatment programs;
- (d) conduct research related to hearing;
- (e) instruct audiology students and other health care personnel in audiology.

(II) A speech/language pathologist

...diagnoses, evaluates and treats speech, language, and voice disorders.

Speech/language pathologists perform some or all of the following duties:

- (a) administer tests and observe patients to diagnose and evaluate speech, language, and voice disorders;
- (b) plan and implement remedial programs to correct speech, language, and voice disorders;
- (c) consult with physicians, nurses, psychologists, and other health care personnel to help plan treatment programs;
- (d) conduct research on speech and other communication disorders and on the development and design of diagnostic procedures and devices.⁴⁸

Notes:

Information on audiologists and speech/language pathologists was derived solely from the membership list supplied by the British Columbia Association of Speech/Language Pathologists and Audiologists (BCASLPA), and includes *Full* and *Life* members with a British Columbia address at the date of record. The data in the table are presented based on home address in both 1998 and 2000 for the majority of members.

Full members are audiologists and speech/language pathologists in good standing whose number of credit hours in designated areas of study correspond to the criteria specified by the BCASLPA bylaws and who may or may not be employed in the field. *Life* members are full members who have been recognised for long-term employment in audiology and/or speech/language pathology and who may or may not be employed in the field. They must be sixty years of age or older and have held full membership with the BCASLPA for ten years or more.⁴⁹

⁴⁸ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3141, Ottawa: Employment and Immigration Canada.

⁴⁹ Adapted from information provided by the British Columbia Association of Speech/Language Pathologists and Audiologists.

MASSAGE THERAPISTS

Definition: A massage therapist

...provides assessment, treatment and prevention of soft tissue and joint disorders, dysfunction or injury using treatment methods which include (but are not limited to) manual techniques, hydrotherapy, light therapy, electrical modalities, therapeutic exercise and patient education to rehabilitate, relieve pain and promote overall health.⁵⁰

Notes:

Information on massage therapists (MT's) was prepared from registration data maintained by the College of Massage Therapists of British Columbia (CMTBC), and reflects members who reported a British Columbia address at the date of record. MT's may register with the CMTBC as either *Active* (formerly called *Full* registrants) or *Inactive* Registrants. *Active* Registrants are massage therapists who have passed registration examinations and are qualified to practise in massage therapy in British Columbia. *Inactive* Registrants are members of the CMTBC who are not currently practising massage therapy in British Columbia. The data in the tables are presented based on employment address when the registration status is Active, when employment in massage therapy is reported, and when employment address is available. In 1997 and 2000, employment address was available for 94% and 95% of Active Registrant massage therapists employed in massage therapy, respectively. Home address is used for the remainder, as well as for those who are not employed in massage therapy, and for MT's with Inactive registration status.

OCCUPATIONAL THERAPISTS

Definition: An occupational therapist

...plans and carries out individually designed programs of activity for patients with physical or mental health problems to enhance their ability to care for themselves and to engage in work and recreational pursuits.

Occupational therapists perform some or all of the following duties:

- (a) observe patients and consult physicians' prognoses to assess patients' emotional and physical capacities;
- (b) develop treatment programs which may include manual and creative arts, industrial and vocational skills and recreational activities;
- (c) implement the treatment programs and evaluate their progress;
- (d) maintain clinical and statistical records;
- (e) advise on health risks in the workplace or participate in other programs, such as pre-retirement programs, to prevent physical or mental health problems;
- (f) conduct research in occupational therapy;
- (g) act as an occupational therapy consultant or educator.⁵¹

Notes:

Information on occupational therapists (OT's) was prepared from registration data maintained by the British Columbia Society of Occupational Therapists (BCSOT),⁵² and includes BCSOT members who

⁵⁰ Adapted from information provided by the College of Massage Therapists of British Columbia.

⁵¹ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3143, Ottawa: Employment and Immigration Canada.

reported a British Columbia address at the date of record. OT's who are also registered with the College of Physical Therapists of British Columbia (CPTBC) are included in both the occupational therapy and physical therapy categories. The exact number of personnel who are both members of the BCSOT and registered with the CPTBC is not known, so the extent of double-counting of personnel in these two groups can not be determined.

OT's may hold a practising membership in the BCSOT and be registered as *full-time, part-time* or *provisional* members, or hold a *non-practising* membership in the BCSOT. OT's who register as provisional generally have met the educational and competency requirements of full-time or part-time membership, but have not completed the national certification exam of the Canadian Association of Occupational Therapists. The data in the tables are presented based on employment address when the membership status is registered or provisional, when employment in occupational therapy is reported, and when employment address is available. In March 1998 and April 2000, employment address was available for 90% and 96% of registered or provisional OT's employed in occupational therapy, respectively. Home address is used for the remainder, as well as for OT's with registered or provisional status who are not employed in occupational therapy, and for OT's with non-practising membership status.

PHYSICAL THERAPISTS

Definition: A physical therapist (formerly a physiotherapist)

...provides physical, diagnostic and rehabilitative services to patients with physical dysfunctions caused by trauma, congenital abnormality, disease, surgery, obstetrical and gynaecological conditions, and aging processes to restore and/or achieve optimal function.

Physical therapists perform some or all of the following duties:

- (a) administer tests and examine, observe and take a full history of patients to determine condition and status;
- (b) develop, plan, co-ordinate, monitor and adjust a rehabilitation treatment program appropriate to a condition to achieve objectives, either on an individual or group basis;
- (c) provide consultation to physicians, dentists, other health professionals, teachers or others appropriate to the case;
- (d) instruct, advise and co-ordinate programs of remedial modalities for continuation of treatment;
- (e) recommend referral to other health centres, clinics or treatment facilities as appropriate;
- (f) provide consultation and direction to nurses, aides and activity workers to assist in their methods of handling the patient;
- (g) advise, teach, counsel and educate the patient, his/her family and/or caregivers on correct positions, aids, methods and means of movement for the affected part or the body as a whole;
- (h) conduct screening and other health promotion methods to facilitate physical health and prevent the premature dysfunction of the body;
- (i) conduct research projects relating to any of the above to advance the state of knowledge in this field.⁵³

⁵² Effective December 8, 1998, occupational therapy became a regulated health profession with compulsory registration under the *Health Professions Act, R.S.B.C. 1996, Chapter 183*. The College of Occupational Therapists of British Columbia will regulate occupational therapy in British Columbia, but as of the date of record the College of Occupational Therapists of B.C. had not yet registered members, so these data were obtained, as in the past, from the British Columbia Society of Occupational Therapists (BCSOT). Please note, membership in the BCSOT is voluntary.

⁵³ Adapted from *National Occupational Classification 1992*, Major Group 31, No. 3142, Ottawa: Employment and Immigration Canada.

Notes:

Information on physical therapists (PT's) was prepared from registration data maintained by the College of Physical Therapists of British Columbia (CPTBC), and includes PT's who reported a British Columbia address at the date of record. PT's who also hold membership in the British Columbia Society of Occupational Therapists (BCSOT) are included in both the physical therapy and occupational therapy categories. The exact number of personnel who are both registered with the CPTBC and members of the BCSOT is not known so the extent of double-counting of personnel in these two groups cannot be determined.

Two major changes have occurred in the registration categories since *INVENTORY 97* and *INVENTORY UPDATE 98* were published. As of April 1999, PT's can register with the CPTBC as *full, interim, limited* or *inactive* registrants. The CPTBC replaced the former registration category of "limited" with the registration category "interim". A PT may work as an interim (formerly limited) registrant until all qualifications for membership are met. The CPTBC has also created a new registration category titled "limited". Limited registrant PT's are restricted to practice only in a specific area and/or under supervision and/or in a limited capacity.⁵⁴ The limited registration category is not shown in the tables as there were no PT's registered in the new limited category in June 2000. Remedial gymnasts may also register as members of the CPTBC but are not included in the tables.

The data in the tables are presented based on employment address when the registration status is full or interim, when employment in physical therapy is reported, and when employment address is available. In 1998 and 2000, employment address was available for 95% and 96% of full or interim PT's employed in physical therapy, respectively. Home address is used for the remainder, as well as for PT's with full or interim status who are not employed in physical therapy, and for PT's with inactive registration status.

PROSTHETISTS AND ORTHOTISTS

Definition: (I) A prosthetist

...is a professional worker who can design, fabricate and fit appropriate appliances and devices designed to replace part of the human locomotor system.

(II) An orthotist

...is a professional worker who can design, fabricate and fit appropriate supports, braces, shoes, remedial appliances and devices designed to correct, develop, strengthen or support and increase the physiological performance of the human locomotor system.⁵⁵

Notes:

Information on prosthetists and orthotists was derived from membership lists provided by the B.C. Branch of the Canadian Association of Prosthetists and Orthotists (CAPO), and includes prosthetists and orthotists who were *certified* with the Canadian Board for Certification of Prosthetists and Orthotists or *registered* with the CAPO and reported a British Columbia address at the date of record. Data presented in the tables are based on employment address for the majority of prosthetists and orthotists. Precise percentages of home versus employment address are not known.

⁵⁴ Adapted from the *Bylaws of the College of Physical Therapists of British Columbia*, dated April 15, 1999.

⁵⁵ Adapted from information received from the Canadian Board for Certification of Prosthetists and Orthotists. See also *National Occupational Classification 1992*, Major Group 32, No. 3219, Ottawa: Employment and Immigration Canada.

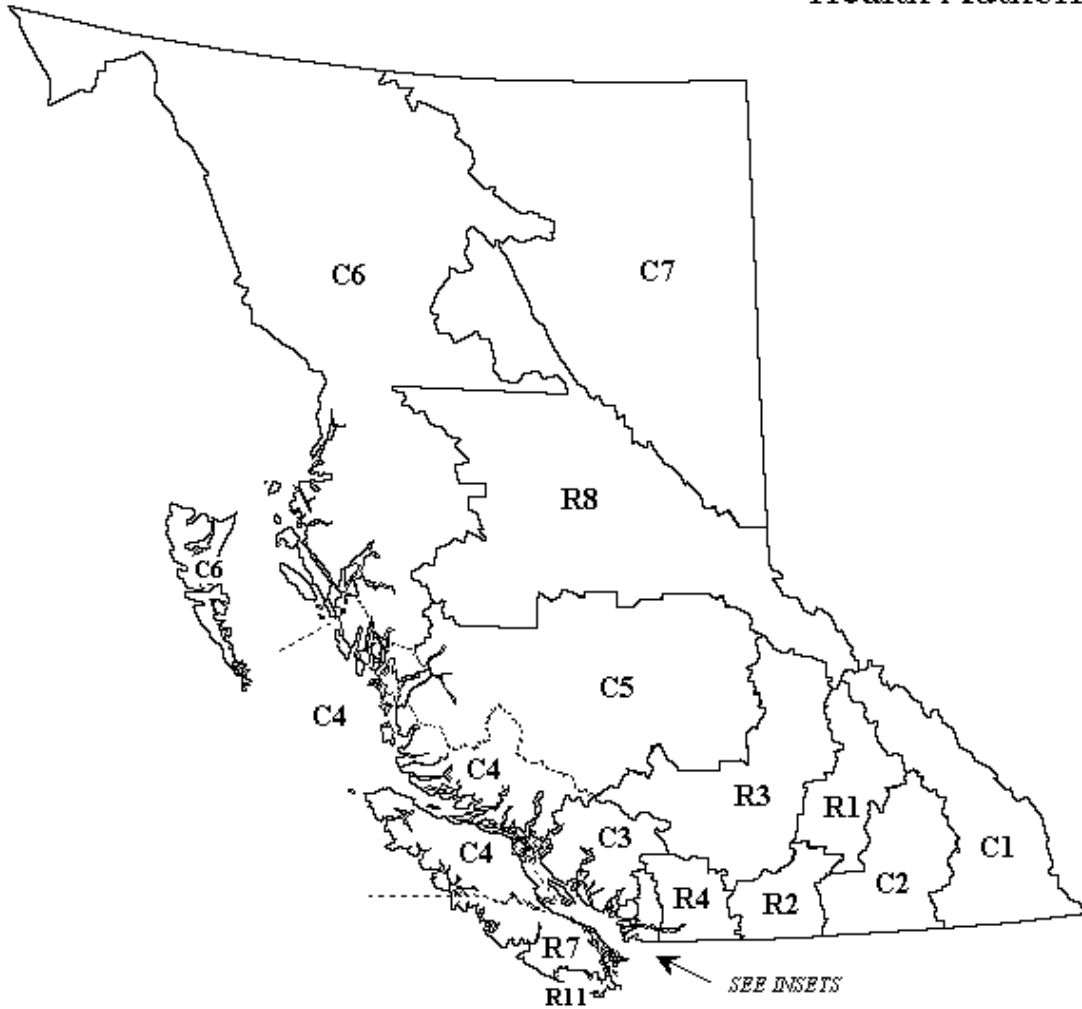
Certifees are prosthetists and orthotists who have completed a two-year course of study at an approved institution, completed a two-year internship, passed the national certification exam administered by the Canadian Board for Certification of Prosthetists and Orthotists, and remain in good standing with the Canadian Board for Certification of Prosthetists and Orthotists. *Certifees* focus on patient assessment and equipment design, though many *certifees* also serve as their own technicians. *Registered technicians* are trained in the production of prosthetic and orthotic equipment. The registered designation is given after passing exams standardised by the Canadian Association of Prosthetists and Orthotists (CAPO). The exams can be taken following completion of a two year training program and two years of work in the field, or after four years of work in the field. Registered technicians generally do not have client contact.

If so qualified, an individual may hold dual certification as a prosthetist and orthotist, or registration as a technician in prosthetics and orthotics.

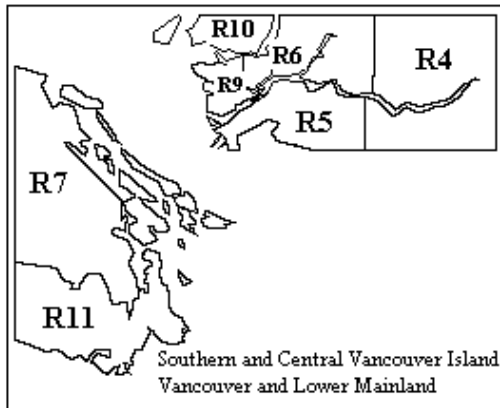
APPENDIX B

**MAP OF BRITISH COLUMBIA
BY HEALTH AUTHORITIES**

British Columbia Health Authorities



HEALTH AUTHORITIES



Regional Health Boards

- R1. North Okanagan
- R2. Okanagan Similkameen
- R3. Thompson
- R4. Fraser Valley
- R5. South Fraser
- R6. Simon Fraser
- R7. Central Vancouver Island
- R8. Northern Interior
- R9. Vancouver/Richmond
- R10. North Shore
- R11. Capital

Comm. Health Services Societies

- C1. East Kootenay
- C2. Kootenay Boundary
- C3. Coast Garibaldi
- C4. Upper Island/Central Coast
- C5. Cariboo
- C6. North West
- C7. Peace Liard

Prepared by: Planning & Evaluation Division, Ministry of Health and Ministry Responsible for Seniors

Boundary Source: B C STATS, Ministry of Finance and Corporate Relations

Modified by: Health Human Resources Unit, Centre for Health Services & Policy Research, U.B.C.

Conversion Summary: B.C. Health Authorities, B.C. Health Regions and Local Health Areas

Regional Health Boards	Old B.C. Health Regions	Local Health Area(s)	
1 North Okanagan	3 North Okanagan	19 Revelstoke 20 Salmon Arm 21 Armstrong-Spallumcheen	22 Vernon 78 Enderby
2 Okanagan Similkameen	4 South Okanagan - Similkameen	14 Southern Okanagan 15 Penticton 16 Keremeos	17 Princeton 23 Central Okanagan 77 Summerland
3 Thompson	5 Thompson	24 Kamloops 26 North Thompson 29 Lillooet	30 South Cariboo 31 Merritt
4 Fraser Valley	6 Fraser Valley	32 Hope 33 Chilliwack 34 Abbotsford	75 Mission 76 Agassiz - Harrison
5 South Fraser	7 South Fraser Valley	35 Langley 36 Surrey	37 Delta
6 Simon Fraser	8 Simon Fraser	40 New Westminster 42 Maple Ridge	43 Coquitlam
	17 Burnaby	41 Burnaby	
7 Central Vancouver Island	10 Central Vancouver Island	65 Cowichan 66 Lake Cowichan 67 Ladysmith	68 Nanaimo 69 Qualicum 70 Alberni
8 Northern Interior	15 Northern Interior	55 Burns Lake 56 Nechako	57 Prince George
9 Vancouver/Richmond	16 Vancouver	39 Vancouver	
	19 Richmond	38 Richmond	
10 North Shore	18 North Shore	44 North Vancouver	45 West Vancouver
11 Capital	20 Capital	61 Greater Victoria	63 Saanich
		62 Sooke	64 Gulf Islands

Comm. Health Services Societies	Old B.C. Health Regions	Local Health Area(s)	
1 East Kootenay	1 East Kootenay	1 Fernie 2 Cranbrook 3 Kimberley	4 Windermere 5 Creston 18 Golden
2 Kootenay Boundary	2 West Kootenay - Boundary	6 Kootenay Lake 7 Nelson 9 Castlegar 10 Arrow Lakes	11 Trail 12 Grand Forks 13 Kettle Valley
3 Coast Garibaldi	9 Coast Garibaldi	46 Sunshine Coast 47 Powell River	48 Howe Sound
4 Upper Island/Central Coast	11 Upper Island/Central Coast	71 Courtenay 72 Campbell River 83 Central Coast	84 Vancouver Island West 85 Vancouver Island North
5 Cariboo	12 Cariboo	25 100 Mile House 27 Cariboo - Chilcotin	28 Quesnel 49 Bella Coola Valley
6 North West	13 North West	50 Queen Charlotte 51 Snow Country 52 Prince Rupert 53 Upper Skeena 54 Smithers	80 Kitimat 87 Stikine 88 Terrace 92 Nisga'a 94 Telegraph Creek
7 Peace Liard	14 Peace Liard	59 Peace River South 60 Peace River North	81 Fort Nelson

Source: Boundary Conversion Steering Committee, British Columbia Ministry of Health

09/98

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