

## **PLACE OF GRADUATION 95**

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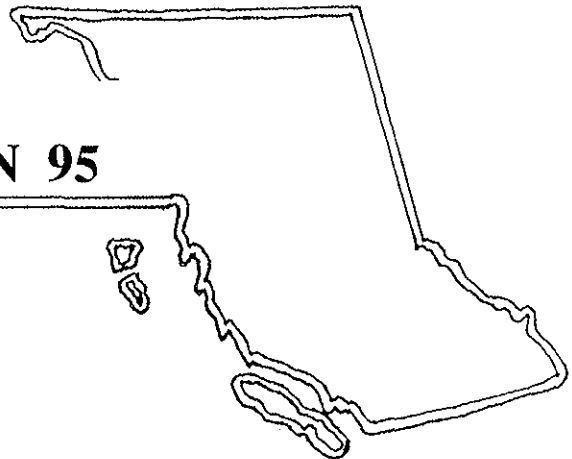
A STATUS REPORT ON PLACE OF GRADUATION  
FOR SELECTED HEALTH PERSONNEL  
IN THE PROVINCE OF BRITISH COLUMBIA

HHRU 97:1

April 1997

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## **A STATUS REPORT ON PLACE OF GRADUATION FOR SELECTED HEALTH PERSONNEL IN THE PROVINCE OF BRITISH COLUMBIA**

HHRU 97:1

Health Human Resources Unit  
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Vancouver, British Columbia V6T 1Z3

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## HEALTH HUMAN RESOURCES UNIT

The Health Human Resources Unit (HHRU) of the Centre for Health Services and Policy Research was established as a demonstration project by the British Columbia Ministry of Health in 1973. Since that time, the Unit has been carried on an ongoing basis within the Ministry's annual operating budget. 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 extensive discussion of key current issues and available resources with officials of the Ministry of Health. Various health care provider groups participate indirectly, through ongoing formal and informal communication with Ministry of Health officials and with HHRU researchers.

Three types of research activity are variously included on the Unit's research agenda and draw on different skills and research expertise of its faculty and staff. In conjunction with the professional licensing bodies or associations, the HHRU develops and maintains a co-operative health human resources database. The Unit uses these data to produce regular status reports that provide a basis for future in-depth studies and for health human resources planning. The Unit conducts in-depth studies that have a particular policy relevance or assess the impact of specific policy measures, based on secondary analyses of data from the co-operative database or primary data collected through large scale 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.  
(See final pages of this document for a listing of HHRU studies and reports.)

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## ACKNOWLEDGEMENTS

Special appreciation is extended to the regulatory bodies and membership groups, all of whom took the time to answer our written and verbal requests for information.

***PLACE OF GRADUATION 95*** is based on data developed for *ROLLCALL 95*; two years of file maintenance and updating is topped off with table generation, consistency checks, definition and other text verification, proof-reading and analysis. The programming team working on this edition was headed by Kerry Kerluke and included Harold Yip, Brian McCashin, and Patrick Wong Fung. Norm O'Rourke, Laura Wood, Allyson MacDonald and Maureen Rodgers handled the surveying, editing and updating. Laura Wood, Kerry Kerluke, and Allyson MacDonald co-ordinated the report production. Tables were produced on an IBM<sup>TM</sup> compatible PC using, Microsoft Excel<sup>TM</sup> v 7.0 and software written in FoxPRO<sup>TM</sup> v2.5. Maps were produced using Axum<sup>TM</sup> v 4 for Windows. Text was produced using Microsoft Word<sup>TM</sup> for Windows v 7.0.

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April 30, 1997

Doug Bigelow, Ph.D.  
Director  
Policy, Planning & Economics Division  
Ministry of Health  
1515 Blanshard Street  
Victoria, B.C. V8W 3C8

Dear Dr. Bigelow,

It is with great pleasure that I transmit to you the thirteenth edition of our *PLACE OF GRADUATION* series, *PLACE OF GRADUATION 95*.

The groups (thirteen in total) included in this edition remain the same as those included in *PLACE OF GRADUATION 93*. In most instances the tables which have been included are also the same as in 1993. In some cases, where no additional information is provided by a table, the tables have been briefly discussed but not printed.

It should be noted that the area of "Vancouver and District" used in this edition is not strictly comparable with that used in the 1993 edition of *PLACE OF GRADUATION* due to the change in the number of health regions used to report the information, from twenty-one to twenty (Appendix A contains a map showing the 20 health regions).

We look forward to receiving comments and suggestions from the members of the Working Group as well as from other readers.

Sincerely yours,

A handwritten signature in blue ink, appearing to read 'A. Kazanjian'.

Arminée Kazanjian, Dr. Soc.  
Associate Director  
Centre for Health Services and Policy Research



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## INTRODUCTION

This report is the thirteenth of its kind reporting the place of graduation for selected health occupations in British Columbia. The groups included in this report are the licensed or registered professions in the province for which updated data are available and place of graduation of members is known. In all cases, the total number of licensed or registered professionals, as of the date of record, is given. Occupational Therapists and Dietitians and Nutritionists are the only groups presented in this volume for which registration is not mandatory, though regulation exists in the form of exclusive use of statutory titles.

Data presented in this report should not be interpreted as indicative of immigration and/or migration patterns. *PLACE OF GRADUATION* provides information only about where education was obtained, not country or province of origin. What *PLACE OF GRADUATION* does suggest is British Columbia's relative dependence, within these health professions, on people trained outside this province.

The first tables of each chapter show province/country of graduation by geographic location within the province. Location has been grouped into the broad categories "Vancouver and District", "Capital" and "Other B.C." to facilitate clear data presentation. Following is a list of health regions as they fall into the three categories used in this edition of *PLACE OF GRADUATION*.

### **Vancouver and District:**

South Fraser Valley  
Simon Fraser  
Vancouver  
Burnaby  
North Shore  
Richmond

### **Capital:**

Capital Regional District

### **Other B.C.:**

East Kootenay  
West Kootenay - Boundary  
North Okanagan  
South Okanagan - Similkameen  
Upper Fraser Valley  
Coast Garibaldi  
Central Vancouver Island  
North Island / Mid Coast  
Thompson Valley  
Cariboo  
North West  
Northern Interior  
Peace River - Liard

Appendix A contains a map of B.C. showing the Health Region boundaries. As well, a conversion table showing the relationship between Health Regions and Local Health Areas is included. A table of population estimates for health regions can be found in Appendix B.

*PLACE OF GRADUATION* includes tables showing the distribution of personnel by place of graduation for individual health regions, and also included are tables showing mean years since graduation, and for some groups, mean years since registration in B.C. and mean age of personnel by place of graduation and health region. For these tables, place of graduation has been aggregated into the categories B.C., Alberta, Saskatchewan/Manitoba, Ontario, Other Canada and Other Country. It should be noted that in these tables Other Canada refers to the northern territories and the provinces east of Ontario, whereas in Figures 1 and 2 in each chapter Other Canada refers to the northern territories and all provinces other than B.C.

Some tables seen in previous editions of *PLACE OF GRADUATION* have been excluded, when the additional information contained therein was relatively small. In all cases, however, the unpublished tables were produced, are discussed briefly, and are available upon request. In all tables, location in the province is based on employment address wherever employment address was available. Employment address was not available from some groups or for all members of other groups; particular percentages of home vs. employment address are outlined in the "Definition:" section of each chapter.

## PROVINCIAL SUMMARY

Figures 1 and 2 provide a graphic overview of place of graduation for the thirteen health professions included in *PLACE OF GRADUATION*. Figure 1 suggests that close to 50% of health professionals in B.C. were educated in this province with the highest proportions of B.C. graduates to be found in Other B.C. It also suggests that non-Canadian graduates are more likely to locate in Vancouver and District than in other areas of the province. Figure 2 compares new registrants (registrants from approximately the last two years) to all registrants, in terms of broad category of place of graduation. This figure shows that the new registrants and all registrants have similar proportions of graduates from B.C., Other Canada and Other Country.

Tables 1 and 2 offer a more detailed look at the data presented in Figures 1 and 2. Table 1 indicates that of all health personnel included in *PLACE OF GRADUATION*, 83.39% were educated in Canada and 15.86% outside Canada, compared to 86.53% and 12.85%, respectively, of the new registrants (Table 2). There is also a slightly lower proportion of B.C. graduates among all registrants compared to the new registrants (51.57% vs. 53.82%, respectively). These differences in distribution are similar, when location in the province is considered. In Vancouver and District there is a slightly higher proportion of non-Canadian graduates among all registrants compared to the new registrants (20.07% vs. 17.28%). The greatest contributor to this is the percentage of European graduates, and those from the U.K. specifically. Graduates from the U.K. are 7.23% of all registrants in Vancouver and District, but only 3.02% of new registrants. Conversely, graduates from Asia comprise 3.78% of all graduates and 4.25% of new registrants. The proportion of Canadian graduates in Vancouver and District is slightly lower in Table 1 than in Table 2 (79.15% vs. 82.04%), mainly due to the graduates from B.C. (50.38% of all registrants and 55.98% of new registrants in Vancouver and District). Canadian graduates in the Capital region also have a higher representation among the new registrants (90.32%) compared to all registrants (87.34%). Graduates in Capital from Nova Scotia (3.63% in Table 2 vs. 1.89% in Table 1), Ontario (16.53% vs. 12.98%) and Alberta (14.52% vs. 10.47%) show the greatest differences between new and all registrants. B.C. graduates, however, have a lower representation among the new registrants compared to all registrants (46.77% vs. 49.63%, respectively). Among the non-Canadian graduates in Capital (11.97% in Table 1 and 8.67% in Table 2), it is, as in Vancouver and District, the U.K. graduates who make up the difference (6.53% in Table 1 and 2.62% in Table 2). In Other B.C., the proportions of Canadian and non-Canadian graduates show a similar pattern to that seen in the other two regions when comparing all registrants with the new registrants (88.32% and 10.96% vs. 91.69% and 7.86%, respectively). B.C. graduates again have a slightly lower representation among the new registrants compared to all registrants (52.52% vs. 53.90%, respectively), while the converse is true for graduates from Newfoundland, Nova Scotia, Ontario, Saskatchewan and Alberta. U.K. graduates in Other B.C. are 4.69% of all registrants and 1.68% of new registrants.

Table 3 presents the information in Table 1 by health region and by place of graduation, with foreign graduates aggregated into one category. As mentioned previously, the "Other Canada" category in this table, and all similarly aggregated tables in the chapters, refers to all provinces and territories other than British Columbia, Alberta, Saskatchewan, Manitoba and Ontario. The column heading "N" is the number of health professionals that comprise each group. B.C. graduates represent just over half of all registrants to these health professions. Within the individual health regions, however, there is a fairly large variation in percentage of B.C. graduates, ranging from about 40% in Peace River-Liard (39.57%) and East Kootenay (42.98%) to over 60% in Northern Interior (60.11%), West Kootenay-Boundary (60.47%) and Cariboo (61.47%). East Kootenay and Peace River-Liard also show the highest representation of Alberta graduates (20.29% and 21.00%, respectively), which may be because these two health regions share long borders with Alberta. Non-Canadian graduates constitute more than 10% of health professionals in all health regions, except for three bordering health regions in the south-central area of the province; North Okanagan (9.45%), South Okanagan-Similkameen (8.75%) and Thompson Valley (8.07%). In contrast, 22.42% of health personnel located in Vancouver are graduates of other countries.

Table 4 uses the same format as Table 3, but presents only the new registrant population. When looking across the provincial totals, differences between Table 3 and Table 4 are relatively small. Within the individual health regions, however, percentage distributions can be quite different. As was the case in Table 3, the proportion of B.C. graduates is lowest in the Peace River-Liard health region (30.56%), and highest in the Cariboo health region (67.35%) for the new registrants. Peace River-Liard also shows the highest representation of Alberta

graduates among the new registrants (30.56%), equal to the proportion of B.C. graduates in that region. The percentage of Other Country graduates in the health regions has a wider variation by health region among the new registrants than that seen in the total group, as discussed above. Non-Canadian graduates make up only 4.82% of the new registrants in Coast Garibaldi (4 out of 83), but 23.08% of new registrants in Richmond (51 of 221).

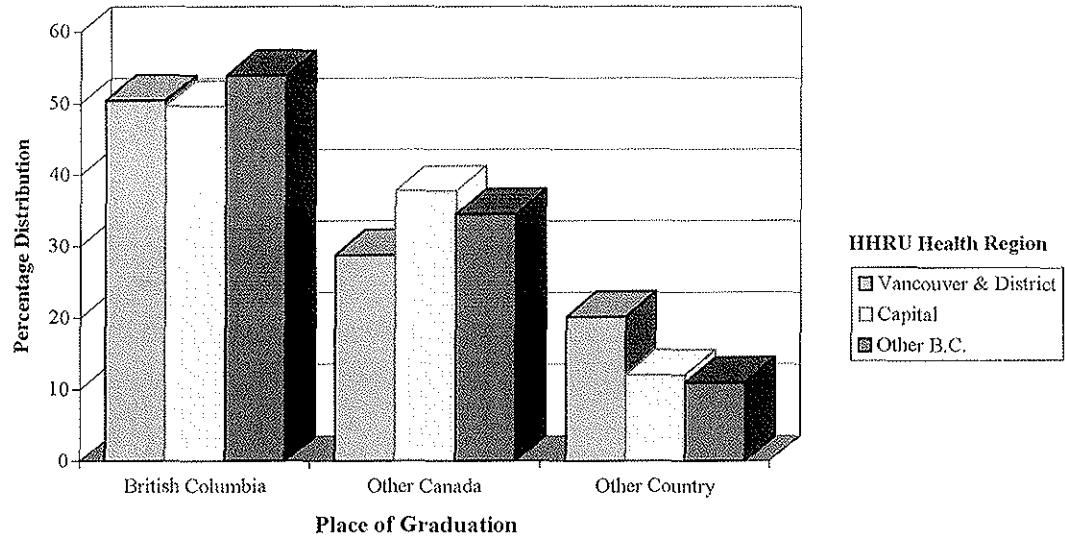
Table 5 provides an historical perspective, showing the percentage of B.C. graduates from 1985 to 1995 in each health personnel group. Massage therapists show the largest jump in proportion of B.C. graduates, from 40.76% in 1989, the first year these data were available, to 60.83% in 1995. Also showing a general upward trend in percentage of B.C. graduates from 1985 to 1995 are dentists (29.26% to 37.39%), physicians (21.51% to 25.90%), registered nurses (47.81% to 51.06%), occupational therapists (29.11% in 1987 to 37.39%) and physical therapists (23.45% to 27.59%). Registered psychiatric nurses show the strongest downward pattern, from 68.31% B.C. graduates in 1987 to 61.32% in 1995. Certified dental assistants, dental hygienists and licensed practical nurses show an up and down pattern, with a slight overall decrease when looking at 1985 compared to 1995 for all three groups (91.99% vs. 91.41%, 44.68% vs. 44.38%, and 65.68% vs. 65.56% respectively). Figure 3 is a corollary to Table 5, presenting the percentage distribution by place of graduation for each of the groups in 1995. The figure has been arranged from lowest (physicians) to highest (certified dental assistants) proportion of B.C. graduates.

Table 6 is a table created from information that can be found in the HHRU's *PRODUCTION* and *ROLLCALL* series. The production index (PI) is the ratio of the number of personnel who are eligible for employment in each health human resources group to the number who graduated from B.C. institutions in the corresponding discipline in each of the academic years stated (1991/92, 1993/94 and 1995/96). The number of graduates in each discipline for each academic year (the denominator) is provided by the various degree-granting institutions through a questionnaire designed and distributed by the HHRU. The numerator for each group and year is determined as follows: for groups where there are multiple registration or membership categories, only those categories where there is a potential for employment in the field are included. For example, registered nurses may be registered with the Registered Nurses Association of British Columbia (RNABC) as either "practising" or "non-practising". The PI would use only those in the "practising" category in the numerator, as those in the "non-practising" category by definition can not be employed in nursing. For groups where there is only one membership or registration category, such as certified dental assistants, the total number is used. The same rules are applied consistently to all years of data. This table also points out an important distinction between the number of health professionals who graduate from B.C. institutions in a given year and the number of B.C. graduates who register with the various bodies. These numbers are not the same, as not all those who graduate in B.C. register with B.C. associations (some leave to work in other provinces or countries), and not all new registrants in a given year graduated that same year.

An increasing PI, as seen with certified dental assistants, dental hygienists, dentists, registered nurses, registered psychiatric nurses, occupational therapists and physical therapists, indicates a decrease in the number of graduates relative to those already in the field. This may be caused by the decreasing number of graduates, or a high growth in numbers of personnel; of the groups noted it is the latter phenomenon that is causing the change in the PI, with the exception of registered nurses and registered psychiatric nurses, who have shown decreases in the numbers graduated in B.C. from 1991/92 to 1995/96 (720 to 587 and 86 to 66, respectively). Massage therapists show a large decrease in the PI from 1993/94 (the first year data are available on B.C. graduates) to 1995/96 (12.1 to 5.1). The decrease is due largely to the increase in the number of graduates from B.C. programs. The other groups show erratic patterns, with pharmacists and physicians showing higher PIs in 1995/96 than in 1991/92, and licensed practical nurses, dietitians and psychologists lower. The relatively large PI for psychologists seen in 1993/94 is due to a combination of both the low number of graduates from the various B.C. programs and an increase in the number of personnel in that year.

Figure 1

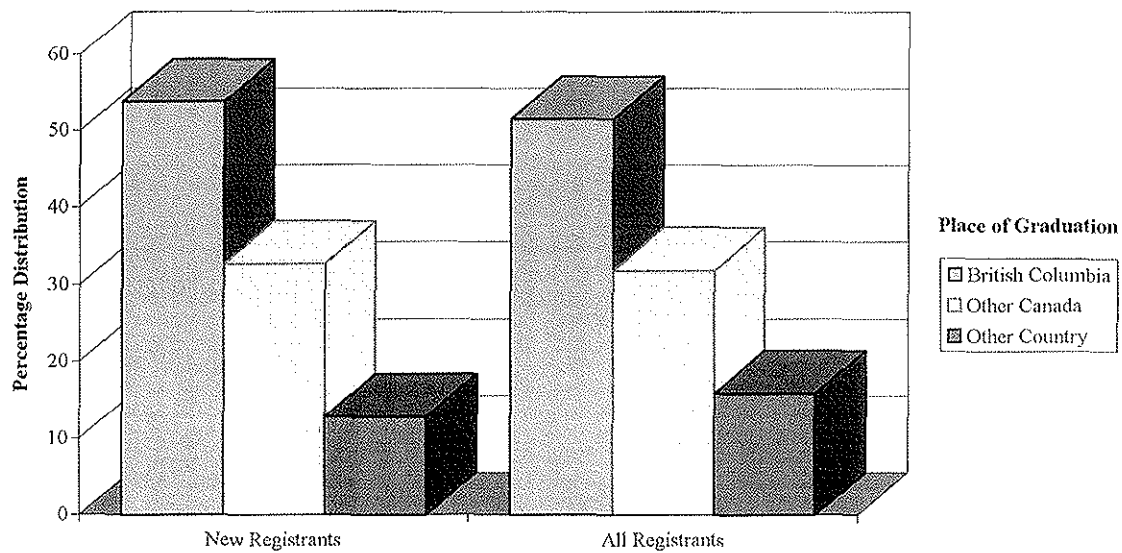
**Place of Graduation by HHRU Health Region  
for Selected Health Personnel<sup>1</sup> in British Columbia  
1995**



<sup>1</sup> Excludes health personnel whose place of graduation is unknown.

Figure 2

**Type of Registrants by Place of Graduation  
for Selected Health Personnel<sup>1</sup> in British Columbia  
1995**



<sup>1</sup> Excludes health personnel whose place of graduation is unknown.

**Table 1**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>26,685</b>	<b>79.15</b>	<b>6,317</b>	<b>87.34</b>	<b>20,470</b>	<b>88.32</b>	<b>53,472</b>	<b>83.39</b>
Newfoundland	205	0.61	39	0.54	137	0.59	381	0.59
Prince Edward Island	34	0.10	12	0.17	28	0.12	74	0.12
Nova Scotia	501	1.49	137	1.89	346	1.49	984	1.53
New Brunswick	150	0.44	29	0.40	105	0.45	284	0.44
Quebec	1,024	3.04	168	2.32	374	1.61	1,566	2.44
Ontario	3,229	9.58	939	12.98	2,157	9.31	6,325	9.86
Manitoba	1,365	4.05	344	4.76	959	4.14	2,668	4.16
Saskatchewan	959	2.84	298	4.12	1,266	5.46	2,523	3.93
Alberta	2,223	6.59	757	10.47	2,585	11.15	5,565	8.68
British Columbia	16,987	50.38	3,590	49.63	12,493	53.90	33,070	51.57
Yukon Territory	5	0.01	2	0.03	16	0.07	23	0.04
Northwest Territories	1	0.00	0	0.00	2	0.01	3	0.00
Canada (province unstated)	2	0.01	2	0.03	2	0.01	6	0.01
<b>Non-Canadian Subtotal</b>	<b>6,766</b>	<b>20.07</b>	<b>866</b>	<b>11.97</b>	<b>2,541</b>	<b>10.96</b>	<b>10,173</b>	<b>15.86</b>
<b>North &amp; Central America Subtotal</b>	<b>781</b>	<b>2.32</b>	<b>147</b>	<b>2.03</b>	<b>511</b>	<b>2.20</b>	<b>1,439</b>	<b>2.24</b>
Barbados	0	0.00	1	0.01	0	0.00	1	0.00
Belize	0	0.00	0	0.00	1	0.00	1	0.00
Bermuda	0	0.00	0	0.00	1	0.00	1	0.00
Cuba	1	0.00	0	0.00	0	0.00	1	0.00
Dominican Republic	0	0.00	1	0.01	0	0.00	1	0.00
El Salvador	2	0.01	0	0.00	1	0.00	3	0.00
Guatemala	1	0.00	0	0.00	0	0.00	1	0.00
Jamaica	24	0.07	3	0.04	8	0.03	35	0.05
Mexico	12	0.04	0	0.00	5	0.02	17	0.03
St. Lucia	0	0.00	0	0.00	1	0.00	1	0.00
St. Vincent	1	0.00	0	0.00	0	0.00	1	0.00
Trinidad and Tobago	0	0.00	1	0.01	2	0.01	3	0.00
United States of America	739	2.19	141	1.95	492	2.12	1,372	2.14
N. & Central America (country unstated)	1	0.00	0	0.00	0	0.00	1	0.00
<b>South America Subtotal</b>	<b>41</b>	<b>0.12</b>	<b>7</b>	<b>0.10</b>	<b>6</b>	<b>0.03</b>	<b>54</b>	<b>0.08</b>
Argentina	10	0.03	0	0.00	0	0.00	10	0.02
Bolivia	0	0.00	1	0.01	0	0.00	1	0.00
Brazil	7	0.02	1	0.01	1	0.00	9	0.01
Chile	9	0.03	1	0.01	1	0.00	11	0.02
Colombia	6	0.02	0	0.00	1	0.00	7	0.01
Ecuador	1	0.00	0	0.00	0	0.00	1	0.00
Guyana	3	0.01	1	0.01	1	0.00	5	0.01
Paraguay	0	0.00	0	0.00	2	0.01	2	0.00
Peru	3	0.01	2	0.03	0	0.00	5	0.01
Uruguay	1	0.00	1	0.01	0	0.00	2	0.00
Venezuela	1	0.00	0	0.00	0	0.00	1	0.00
<b>Europe Subtotal</b>	<b>3,077</b>	<b>9.13</b>	<b>533</b>	<b>7.37</b>	<b>1,382</b>	<b>5.96</b>	<b>4,992</b>	<b>7.78</b>
Austria	14	0.04	1	0.01	7	0.03	22	0.03
Belgium	8	0.02	0	0.00	5	0.02	13	0.02
Bulgaria	1	0.00	0	0.00	1	0.00	2	0.00
Czechoslovakia <sup>2</sup>	65	0.19	5	0.07	11	0.05	81	0.13
Denmark	18	0.05	2	0.03	13	0.06	33	0.05
Finland	8	0.02	1	0.01	3	0.01	12	0.02

...continued

**Table 1(continued)**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
France	11	0.03	0	0.00	6	0.03	17	0.03
Germany	70	0.21	11	0.15	57	0.25	138	0.22
Greece	6	0.02	0	0.00	1	0.00	7	0.01
Hungary	13	0.04	1	0.01	7	0.03	21	0.03
Iceland	1	0.00	0	0.00	1	0.00	2	0.00
Irish Republic (Eire)	147	0.44	15	0.21	71	0.31	233	0.36
Italy	8	0.02	1	0.01	1	0.00	10	0.02
Kyrgyzstan	2	0.01	0	0.00	0	0.00	2	0.00
Latvia	1	0.00	0	0.00	0	0.00	1	0.00
Malta	1	0.00	0	0.00	2	0.01	3	0.00
Netherlands	63	0.19	14	0.19	66	0.28	143	0.22
Norway	5	0.01	0	0.00	3	0.01	8	0.01
Poland	80	0.24	4	0.06	7	0.03	91	0.14
Portugal	3	0.01	0	0.00	1	0.00	4	0.01
Romania	11	0.03	0	0.00	6	0.03	17	0.03
Russia	13	0.04	0	0.00	0	0.00	13	0.02
Spain	9	0.03	2	0.03	2	0.01	13	0.02
Sweden	30	0.09	0	0.00	12	0.05	42	0.07
Switzerland	19	0.06	2	0.03	5	0.02	26	0.04
Tajikistan	2	0.01	0	0.00	0	0.00	2	0.00
Ukraine	0	0.00	1	0.01	0	0.00	1	0.00
United Kingdom	2,439	7.23	472	6.53	1,088	4.69	3,999	6.24
Yugoslavia <sup>2</sup>	27	0.08	1	0.01	6	0.03	34	0.05
Croatia	1	0.00	0	0.00	0	0.00	1	0.00
Europe (country unstated)	1	0.00	0	0.00	0	0.00	1	0.00
<b>Asia Subtotal</b>	<b>2,128</b>	<b>6.31</b>	<b>84</b>	<b>1.16</b>	<b>211</b>	<b>0.91</b>	<b>2,423</b>	<b>3.78</b>
Afghanistan	2	0.01	0	0.00	0	0.00	2	0.00
Bangladesh	1	0.00	0	0.00	0	0.00	1	0.00
China	18	0.05	2	0.03	2	0.01	22	0.03
Hong Kong	625	1.85	7	0.10	13	0.06	645	1.01
India	158	0.47	13	0.18	56	0.24	227	0.35
Indonesia	3	0.01	0	0.00	0	0.00	3	0.00
Iran	29	0.09	5	0.07	4	0.02	38	0.06
Iraq	5	0.01	0	0.00	1	0.00	6	0.01
Israel	12	0.04	0	0.00	0	0.00	12	0.02
Japan	21	0.06	5	0.07	1	0.00	27	0.04
Korea (North or South unspecified)	2	0.01	0	0.00	0	0.00	2	0.00
Kuwait	5	0.01	0	0.00	0	0.00	5	0.01
Lebanon	6	0.02	0	0.00	1	0.00	7	0.01
Macao	1	0.00	0	0.00	0	0.00	1	0.00
Malaysia	25	0.07	0	0.00	2	0.01	27	0.04
Myanmar	3	0.01	1	0.01	0	0.00	4	0.01
Pakistan	19	0.06	1	0.01	1	0.00	21	0.03
Philippines	972	2.88	44	0.61	116	0.50	1,132	1.77
Republic of Yemen	1	0.00	0	0.00	0	0.00	1	0.00
Saudi Arabia	45	0.13	0	0.00	0	0.00	45	0.07
Singapore	49	0.15	1	0.01	3	0.01	53	0.08
South Korea	40	0.12	2	0.03	3	0.01	45	0.07
Sri Lanka	8	0.02	0	0.00	3	0.01	11	0.02
Syria	2	0.01	0	0.00	0	0.00	2	0.00
Taiwan	50	0.15	2	0.03	3	0.01	55	0.09
Thailand	5	0.01	1	0.01	1	0.00	7	0.01
Turkey	8	0.02	0	0.00	1	0.00	9	0.01
United Arab Emirates	3	0.01	0	0.00	0	0.00	3	0.00
Vietnam	10	0.03	0	0.00	0	0.00	10	0.02

...continued

**Table 1(continued)**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Africa Subtotal</b>	<b>333</b>	<b>0.99</b>	<b>35</b>	<b>0.48</b>	<b>228</b>	<b>0.98</b>	<b>596</b>	<b>0.93</b>
Egypt	19	0.06	2	0.03	9	0.04	30	0.05
Ethiopia	2	0.01	0	0.00	0	0.00	2	0.00
Ghana	2	0.01	0	0.00	3	0.01	5	0.01
Kenya	16	0.05	0	0.00	2	0.01	18	0.03
Libya	5	0.01	0	0.00	1	0.00	6	0.01
Mauritius	3	0.01	0	0.00	0	0.00	3	0.00
Nigeria	7	0.02	0	0.00	3	0.01	10	0.02
South Africa	252	0.75	31	0.43	206	0.89	489	0.76
Tanzania	2	0.01	0	0.00	0	0.00	2	0.00
Uganda	10	0.03	0	0.00	3	0.01	13	0.02
Zambia	1	0.00	0	0.00	0	0.00	1	0.00
Zimbabwe	14	0.04	2	0.03	1	0.00	17	0.03
<b>Oceania Subtotal</b>	<b>406</b>	<b>1.20</b>	<b>60</b>	<b>0.83</b>	<b>203</b>	<b>0.88</b>	<b>669</b>	<b>1.04</b>
Australia	247	0.73	33	0.46	123	0.53	403	0.63
Fiji	10	0.03	1	0.01	1	0.00	12	0.02
New Zealand	148	0.44	26	0.36	79	0.34	253	0.39
Tonga	1	0.00	0	0.00	0	0.00	1	0.00
<b>Unknown</b>	<b>264</b>	<b>0.78</b>	<b>50</b>	<b>0.69</b>	<b>167</b>	<b>0.72</b>	<b>481</b>	<b>0.75</b>
<b>TOTAL</b>	<b>33,715</b>	<b>100.00</b>	<b>7,233</b>	<b>100.00</b>	<b>23,178</b>	<b>100.00</b>	<b>64,126</b>	<b>100.00</b>

<sup>1</sup> Includes Certified Dental Assistants, Dental Hygienists, Dentists, Licensed Practical Nurses, Registered Nurses, Registered Psychiatric Nurses, Massage Therapists, Occupational Therapists, Physical Therapists, Pharmacists, Psychologists, Physicians and Registered Dietitians/Nutritionists.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.



**Table 2**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**New Registrants**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>2,421</b>	<b>82.04</b>	<b>448</b>	<b>90.32</b>	<b>2,018</b>	<b>91.69</b>	<b>4,887</b>	<b>86.53</b>
Newfoundland	27	0.91	4	0.81	23	1.04	54	0.96
Prince Edward Island	4	0.14	1	0.20	1	0.05	6	0.11
Nova Scotia	43	1.46	18	3.63	51	2.32	112	1.98
New Brunswick	13	0.44	3	0.60	8	0.36	24	0.42
Quebec	84	2.85	6	1.21	25	1.14	115	2.04
Ontario	294	9.96	82	16.53	208	9.45	584	10.34
Manitoba	70	2.37	15	3.02	70	3.18	155	2.74
Saskatchewan	63	2.13	15	3.02	140	6.36	218	3.86
Alberta	171	5.79	72	14.52	333	15.13	576	10.20
British Columbia	1,652	55.98	232	46.77	1,156	52.52	3,040	53.82
Yukon Territory	0	0.00	0	0.00	3	0.14	3	0.05
<b>Non-Canadian Subtotal</b>	<b>510</b>	<b>17.28</b>	<b>43</b>	<b>8.67</b>	<b>173</b>	<b>7.86</b>	<b>726</b>	<b>12.85</b>
<b>North &amp; Central America Subtotal</b>	<b>79</b>	<b>2.68</b>	<b>11</b>	<b>2.22</b>	<b>39</b>	<b>1.77</b>	<b>129</b>	<b>2.28</b>
Dominican Republic	0	0.00	1	0.20	0	0.00	1	0.02
El Salvador	1	0.03	0	0.00	1	0.05	2	0.04
Jamaica	1	0.03	0	0.00	1	0.05	2	0.04
Mexico	2	0.07	0	0.00	0	0.00	2	0.04
United States of America	75	2.54	10	2.02	37	1.68	122	2.16
<b>South America Subtotal</b>	<b>1</b>	<b>0.03</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.02</b>
Colombia	1	0.03	0	0.00	0	0.00	1	0.02
<b>Europe Subtotal</b>	<b>147</b>	<b>4.98</b>	<b>20</b>	<b>4.03</b>	<b>66</b>	<b>3.00</b>	<b>233</b>	<b>4.13</b>
Bulgaria	1	0.03	0	0.00	1	0.05	2	0.04
Czechoslovakia <sup>2</sup>	8	0.27	0	0.00	3	0.14	11	0.19
Denmark	1	0.03	1	0.20	0	0.00	2	0.04
Finland	1	0.03	0	0.00	0	0.00	1	0.02
France	1	0.03	0	0.00	1	0.05	2	0.04
Germany	7	0.24	2	0.40	11	0.50	20	0.35
Hungary	1	0.03	0	0.00	1	0.05	2	0.04
Irish Republic (Eire)	2	0.07	3	0.60	5	0.23	10	0.18
Netherlands	3	0.10	0	0.00	1	0.05	4	0.07
Poland	17	0.58	1	0.20	2	0.09	20	0.35
Romania	4	0.14	0	0.00	0	0.00	4	0.07
Russia	4	0.14	0	0.00	0	0.00	4	0.07
Sweden	2	0.07	0	0.00	1	0.05	3	0.05
Switzerland	2	0.07	0	0.00	1	0.05	3	0.05
United Kingdom	89	3.02	13	2.62	37	1.68	139	2.46
Yugoslavia <sup>2</sup>	4	0.14	0	0.00	2	0.09	6	0.11
<b>Asia Subtotal</b>	<b>220</b>	<b>7.46</b>	<b>4</b>	<b>0.81</b>	<b>16</b>	<b>0.73</b>	<b>240</b>	<b>4.25</b>
China	2	0.07	0	0.00	0	0.00	2	0.04
Hong Kong	83	2.81	0	0.00	1	0.05	84	1.49
India	26	0.88	1	0.20	8	0.36	35	0.62
Iran	6	0.20	2	0.40	0	0.00	8	0.14
Israel	1	0.03	0	0.00	0	0.00	1	0.02
Japan	1	0.03	1	0.20	1	0.05	3	0.05
Korea (North or South unspecified)	1	0.03	0	0.00	0	0.00	1	0.02

...continued

**Table 2(continued)**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**New Registrants**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Lebanon	1	0.03	0	0.00	0	0.00	1	0.02
Malaysia	2	0.07	0	0.00	0	0.00	2	0.04
Pakistan	3	0.10	0	0.00	0	0.00	3	0.05
Philippines	83	2.81	0	0.00	5	0.23	88	1.56
Singapore	3	0.10	0	0.00	1	0.05	4	0.07
South Korea	2	0.07	0	0.00	0	0.00	2	0.04
Sri Lanka	1	0.03	0	0.00	0	0.00	1	0.02
Taiwan	3	0.10	0	0.00	0	0.00	3	0.05
Thailand	1	0.03	0	0.00	0	0.00	1	0.02
Turkey	1	0.03	0	0.00	0	0.00	1	0.02
<b>Africa Subtotal</b>	<b>37</b>	<b>1.25</b>	<b>3</b>	<b>0.60</b>	<b>41</b>	<b>1.86</b>	<b>81</b>	<b>1.43</b>
Egypt	3	0.10	1	0.20	2	0.09	6	0.11
Ethiopia	1	0.03	0	0.00	0	0.00	1	0.02
Ghana	0	0.00	0	0.00	1	0.05	1	0.02
Kenya	2	0.07	0	0.00	0	0.00	2	0.04
Mauritius	1	0.03	0	0.00	0	0.00	1	0.02
South Africa	28	0.95	0	0.00	38	1.73	66	1.17
Tanzania	1	0.03	0	0.00	0	0.00	1	0.02
Zimbabwe	1	0.03	2	0.40	0	0.00	3	0.05
<b>Oceania Subtotal</b>	<b>26</b>	<b>0.88</b>	<b>5</b>	<b>1.01</b>	<b>11</b>	<b>0.50</b>	<b>42</b>	<b>0.74</b>
Australia	23	0.78	4	0.81	7	0.32	34	0.60
Fiji	2	0.07	0	0.00	1	0.05	3	0.05
New Zealand	1	0.03	1	0.20	3	0.14	5	0.09
<b>Unknown</b>	<b>20</b>	<b>0.68</b>	<b>5</b>	<b>1.01</b>	<b>10</b>	<b>0.45</b>	<b>35</b>	<b>0.62</b>
<b>TOTAL</b>	<b>2,951</b>	<b>100.00</b>	<b>496</b>	<b>100.00</b>	<b>2,201</b>	<b>100.00</b>	<b>5,648</b>	<b>100.00</b>

<sup>1</sup> Includes Certified Dental Assistants, Dental Hygienists, Dentists, Licensed Practical Nurses, Registered Nurses, Registered Psychiatric Nurses, Massage Therapists, Occupational Therapists, Physical Therapists, Pharmacists, Psychologists, Physicians and Registered Dietitians/Nutritionists.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 3**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**1995**

Health Region	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	%
1 East Kootenay	468	42.98	221	20.29	124	11.39	111	10.19	49	4.50	973	89.35	111	10.19	5	0.46	1,089	100.00
2 West Kootenay - Boundary	910	60.47	150	9.97	80	5.32	141	9.37	48	3.19	1,329	88.31	170	11.30	6	0.40	1,505	100.00
4 North Okanagan	910	52.75	251	14.55	191	11.07	134	7.77	56	3.25	1,542	89.39	163	9.45	20	1.16	1,725	100.00
5 South Okanagan - Similkameen	1,839	50.11	528	14.39	507	13.81	316	8.61	137	3.73	3,327	90.65	321	8.75	22	0.60	3,670	100.00
6 Thompson Valley	1,203	59.58	206	10.20	173	8.57	182	9.01	73	3.62	1,837	90.99	163	8.07	19	0.94	2,019	100.00
7 Upper Fraser Valley	1,515	53.01	231	8.08	331	11.58	255	8.92	128	4.48	2,460	86.07	365	12.77	33	1.15	2,858	100.00
9 South Fraser Valley	3,071	53.18	432	7.48	500	8.66	500	8.66	270	4.68	4,773	82.65	964	16.69	38	0.66	5,775	100.00
10 Simon Fraser	3,321	56.15	318	5.38	434	7.34	407	6.88	262	4.43	4,742	80.17	1,100	18.60	73	1.23	5,915	100.00
11 Coast Garibaldi	525	57.00	64	6.95	55	5.97	111	12.05	54	5.86	809	87.84	107	11.62	5	0.54	921	100.00
13 Central Vancouver Island	1,854	56.51	317	9.66	244	7.44	315	9.60	131	3.99	2,861	87.20	405	12.34	15	0.46	3,281	100.00
14 North Island/Mid Coast	873	52.81	131	7.92	140	8.47	195	11.80	106	6.41	1,445	87.42	195	11.80	13	0.79	1,653	100.00
15 Cariboo	509	61.47	54	6.52	67	8.09	68	8.21	30	3.62	728	87.92	94	11.35	6	0.72	828	100.00
16 North West	546	47.11	125	10.79	100	8.63	157	13.55	71	6.13	999	86.19	150	12.94	10	0.86	1,159	100.00
17 Peace River - Liard	277	39.57	147	21.00	82	11.71	53	7.57	44	6.29	603	86.14	91	13.00	6	0.86	700	100.00
18 Northern Interior	1,064	60.11	160	9.04	131	7.40	119	6.72	83	4.69	1,557	87.97	206	11.64	7	0.40	1,770	100.00
20 Vancouver	7,021	46.49	969	6.42	928	6.15	1,697	11.24	1,001	6.63	11,616	76.92	3,386	22.42	99	0.66	15,101	100.00
30 Burnaby	1,276	54.74	143	6.13	133	5.71	175	7.51	125	5.36	1,852	79.45	456	19.56	23	0.99	2,331	100.00
40 North Shore	1,402	50.65	214	7.73	188	6.79	327	11.81	156	5.64	2,287	82.62	464	16.76	17	0.61	2,768	100.00
50 Richmond	896	49.10	147	8.05	141	7.73	123	6.74	108	5.92	1,415	77.53	396	21.70	14	0.77	1,825	100.00
60 Capital Health	3,590	49.63	757	10.47	642	8.88	939	12.98	389	5.38	6,317	87.34	866	11.97	50	0.69	7,233	100.00
TOTAL	33,070	51.57	5,565	8.68	5,191	8.10	6,325	9.86	3,321	5.18	53,472	83.39	10,173	15.86	481	0.75	64,126	100.00

<sup>1</sup> Includes Certified Dental Assistants, Dental Hygienists, Dentists, Licensed Practical Nurses, Registered Nurses, Registered Psychiatric Nurses, Massage Therapists, Occupational Therapists, Physical Therapists, Pharmacists, Physicians, Psychologists, and Registered Dietitians/Nutritionists

**Table 4**  
**Selected Health Personnel<sup>1</sup> in British Columbia**  
**New Registrants**  
**by Health Region by Place of Graduation**  
**1995**

Health Region	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	%
1 East Kootenay	55	45.08	30	24.59	9	7.38	14	11.48	6	4.92	114	93.44	7	5.74	1	0.82	122	100.00
2 West Kootenay - Boundary	74	61.67	22	18.33	7	5.83	6	5.00	4	3.33	113	94.17	7	5.83	0	0.00	120	100.00
4 North Okanagan	53	41.73	25	19.69	16	12.60	11	8.66	7	5.51	112	88.19	11	8.66	4	3.15	127	100.00
5 South Okanagan - Similkameen	144	48.98	50	17.01	42	14.29	23	7.82	12	4.08	271	92.18	21	7.14	2	0.68	294	100.00
6 Thompson Valley	110	66.67	11	6.67	12	7.27	12	7.27	8	4.85	153	92.73	12	7.27	0	0.00	165	100.00
7 Upper Fraser Valley	149	56.65	19	7.22	31	11.79	23	8.75	18	6.84	240	91.25	21	7.98	2	0.76	263	100.00
9 South Fraser Valley	293	58.25	29	5.77	29	5.77	46	9.15	26	5.17	423	84.10	79	15.71	1	0.20	503	100.00
10 Simon Fraser	279	60.92	19	4.15	22	4.80	44	9.61	28	6.11	392	85.59	62	13.54	4	0.87	458	100.00
11 Coast Garibaldi	39	46.99	14	16.87	6	7.23	15	18.07	5	6.02	79	95.18	4	4.82	0	0.00	83	100.00
13 Central Vancouver Island	148	56.27	35	13.31	24	9.13	29	11.03	8	3.04	244	92.78	19	7.22	0	0.00	263	100.00
14 North Island/Mid Coast	70	49.30	15	10.56	17	11.97	21	14.79	10	7.04	133	93.66	9	6.34	0	0.00	142	100.00
15 Cariboo	66	67.35	8	8.16	8	8.16	5	5.10	6	6.12	93	94.90	5	5.10	0	0.00	98	100.00
16 North West	85	45.21	30	15.96	14	7.45	31	16.49	8	4.26	168	89.36	20	10.64	0	0.00	188	100.00
17 Peace River - Liard	33	30.56	33	30.56	11	10.19	5	4.63	10	9.26	92	85.19	15	13.89	1	0.93	108	100.00
18 Northern Interior	130	57.02	41	17.98	13	5.70	13	5.70	9	3.95	206	90.35	22	9.65	0	0.00	228	100.00
20 Vancouver	707	53.36	86	6.49	62	4.68	148	11.17	78	5.89	1,081	81.58	237	17.89	7	0.53	1,325	100.00
30 Burnaby	137	58.80	17	7.30	8	3.43	15	6.44	9	3.86	186	79.83	45	19.31	2	0.86	233	100.00
40 North Shore	124	58.77	4	1.90	7	3.32	23	10.90	15	7.11	173	81.99	36	17.06	2	0.95	211	100.00
50 Richmond	112	50.68	16	7.24	5	2.26	18	8.14	15	6.79	166	75.11	51	23.08	4	1.81	221	100.00
60 Capital Health	232	46.77	72	14.52	30	6.05	82	16.53	32	6.45	448	90.32	43	8.67	5	1.01	496	100.00
TOTAL	3,040	53.82	576	10.20	373	6.60	584	10.34	314	5.56	4,887	86.53	726	12.85	35	0.62	5,648	100.00

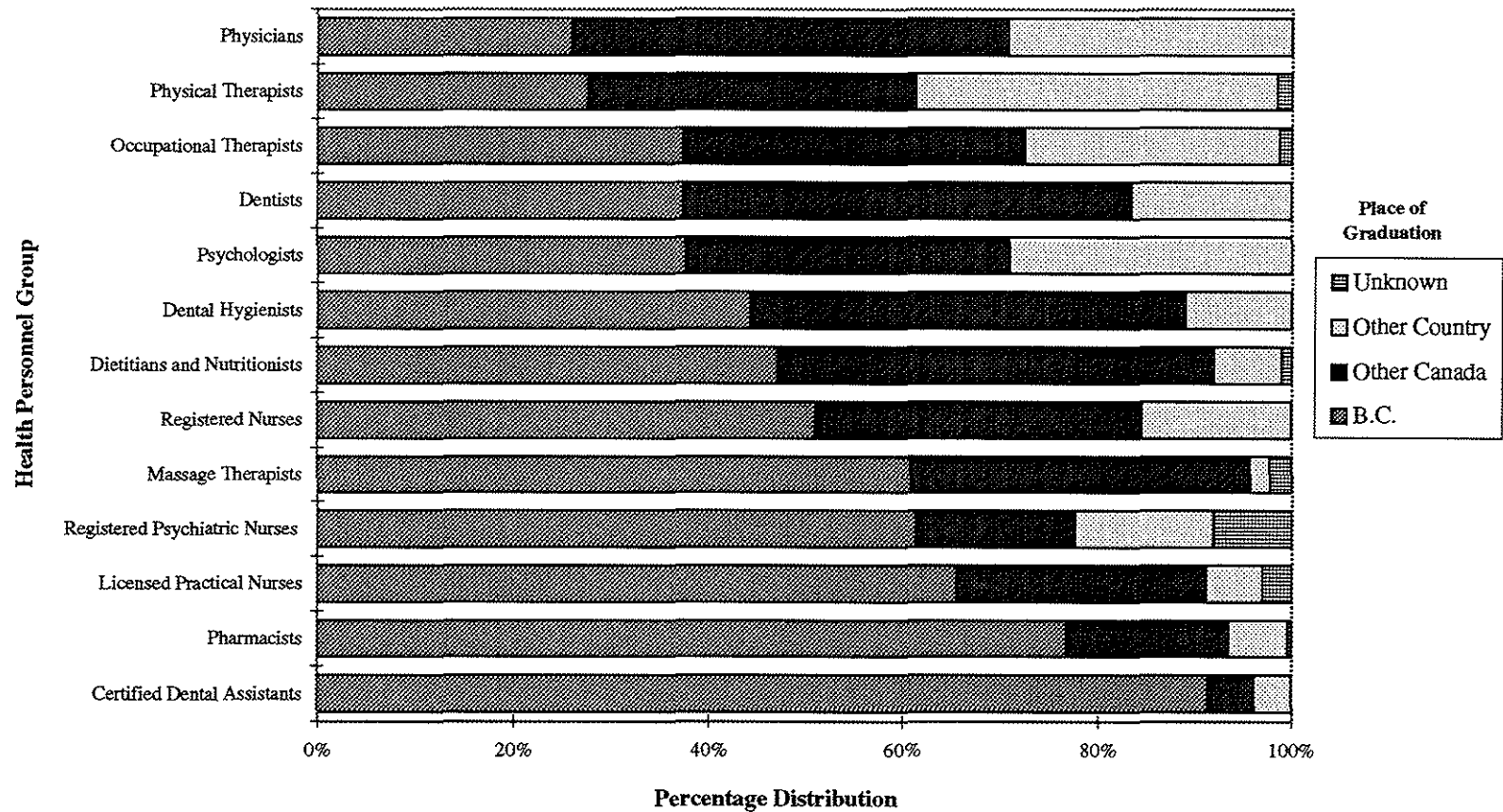
<sup>1</sup> Includes Certified Dental Assistants, Dental Hygienists, Dentists, Licensed Practical Nurses, Registered Nurses, Registered Psychiatric Nurses, Massage Therapists, Occupational Therapists, Physical Therapists, Pharmacists, Physicians, Psychologists, and Registered Dietitians/Nutritionists.

**Table 5**  
**Total Personnel, Number and Percentage B.C. Graduates**  
**for Selected Health Personnel in British Columbia**  
**1985 to 1995**

	1985			1987			1989			1991			1993			1995		
	Total		B.C. Graduates	Total		B.C. Graduates	Total		B.C. Graduates	Total		B.C. Graduates	Total		B.C. Graduates	Total		B.C. Graduates
	Per- sonnel	N		Per- sonnel	N		Per- sonnel	N		Per- sonnel	N		Per- sonnel	N		Per- sonnel	N	
<b>Dental Services</b>																		
Certified Dental Assistants	2,673	2,459	91.99	2,997	2,774	92.56	3,482	3,202	91.96	3,845	3,511	91.31	4,067	3,699	90.95	4,352	3,978	91.41
Dental Hygienists	602	269	44.68	665	295	44.36	825	352	42.67	908	431	47.47	1,227	532	43.36	1,433	636	44.38
Dentists	1,808	529	29.26	1,846	570	30.88	1,905	636	33.39	1,997	706	35.35	2,109	758	35.94	2,233	835	37.39
<b>Medical and Treatment Services</b>																		
Pharmacists <sup>1</sup>	2,048	1,610	78.61	2,172	1,722	79.28	2,285	1,822	79.74	2,439	1,912	78.39	2,563	2,011	78.46	2,733	2,097	76.73
Physicians <sup>1</sup>	6,405	1,378	21.51	6,656	1,531	23.00	7,093	1,710	24.11	7,596	1,892	24.91	8,142	2,068	25.40	8,416	2,180	25.90
<b>Nursing Services</b>																		
Licensed Practical Nurses	6,402	4,205	65.68	5,934	4,053	68.30	6,080	4,134	67.99	6,168	4,044	65.56	5,970	3,920	65.66	5,673	3,719	65.56
Registered Nurses	24,768	11,841	47.81	25,838	12,633	48.89	27,451	13,568	49.43	29,266	14,474	49.46	30,486	15,285	50.14	30,952	15,803	51.06
Registered Psychiatric Nurses	-	-	-	2,452	1,675	68.31	2,517	1,665	66.15	2,607	1,618	62.06	2,675	1,634	61.08	2,681	1,644	61.32
<b>Nutrition and Dietary Services</b>																		
Dietitians and Nutritionists	-	-	-	-	-	-	-	-	-	616	294	47.73	705	331	46.95	759	358	47.17
<b>Psychological Services</b>																		
Psychologists	-	-	-	705	254	36.03	708	269	37.99	744	278	37.37	783	299	38.19	834	314	37.65
<b>Rehabilitation Services</b>																		
Massage Therapists	-	-	-	-	-	-	476	194	40.76	625	311	49.76	769	437	56.83	937	570	60.83
Occupational Therapists	-	-	-	426	124	29.11	431	135	31.32	623	208	33.39	708	245	34.60	829	310	37.39
Physical Therapists	1420	333	23.45	1493	365	24.45	1,549	397	25.63	1,862	458	24.60	1,987	516	25.97	2,182	602	27.59
<b>Total</b>	46,126	22,624	49.05	51,184	25,996	50.79	54,802	28,084	51.25	59,296	30,137	50.82	62,191	31,735	51.03	64,014	33,046	51.62

<sup>1</sup> Figures for 1993 may differ slightly from the corresponding figures appearing in PLACE OF GRADUATION 93 because of data processing errors in 1993.

**Figure 3**  
**Percentage Distribution of Selected Health Groups in British Columbia**  
**by Place of Graduation**  
**1995**



**Table 6**  
**Production Index (PI) <sup>1</sup>**  
**for Selected Health Groups in British Columbia**  
**1991/92, 1993/94, 1995/96**

<u>Health Personnel Group</u>	<u>1991/92</u>			<u>1993/94</u>			<u>1995/96</u>		
	<u>Personnel <sup>2</sup></u>	<u>Graduates <sup>3</sup></u>	<u>PI</u>	<u>Personnel <sup>2</sup></u>	<u>Graduates <sup>3</sup></u>	<u>PI</u>	<u>Personnel <sup>2</sup></u>	<u>Graduates <sup>3</sup></u>	<u>PI</u>
Certified Dental Assistants	3,845	299 <sup>4</sup>	12.9	4,067	313	13.0	4,352	297	14.7
Dental Hygienists	985	59	16.7	1,227	61	20.1	1,433	63	22.7
Dentists	1,997	38	52.6	2,120	38	55.8	2,267	37	61.3
Pharmacists	2,439	111	22.0	2,563	104	24.6	2,733	119	23.0
Physicians	7,596	121	62.8	8,142	112	72.7	8,416	119	70.7
Licensed Practical Nurses	6,143	116 <sup>4</sup>	53.0	5,970	100	59.7	5,673	132	43.0
Registered Nurses <sup>5</sup>	26,669	720 <sup>4,6</sup>	37.0	27,879	660 <sup>6</sup>	42.2	28,297	587	48.2
Registered Psychiatric Nurses	2,223	86	25.8	2,282	68	33.6	2,316	66	35.1
Dietitians	545	27 <sup>4</sup>	20.2	618	36	17.2	669	37	18.1
Psychologists <sup>7</sup>	737	25 <sup>4</sup>	29.5	783	12	65.3	794	34	23.4
Massage Therapists	612	n/a	-	765	63	12.1	937	185	5.1
Occupational Therapists	566	30	18.9	644	34	18.9	775	37	20.9
Physical Therapists	1,801	32	56.3	1,964	34	57.8	2,067	32	64.6

<sup>1</sup> Production Index (PI) = number of personnel eligible for employment in B.C. divided by number of graduates.

<sup>2</sup> Source of personnel (eligible for employment) data: ROLLCALL 93 and ROLLCALL 95. Except where indicated, the most recent data available are used.

<sup>3</sup> Source of graduate data: PRODUCTION 91, PRODUCTION 93, PRODUCTION UPDATE 94, and PRODUCTION 95. Except where indicated, the most recent data available are used.

<sup>4</sup> The number of graduates includes an estimate taken from PRODUCTION 91.

<sup>5</sup> Includes basic Baccalaureate program, Diploma program, Combined RN/BSN program, and Nursing Access program graduates.

<sup>6</sup> This number is different than that appearing in PRODUCTION 93 due to a revision of the data and the addition of the Nursing Access program graduates to the total.

<sup>7</sup> Includes Ph.D. graduates from programs in Clinical Psychology or Counselling Psychology.

## I Dental Services



## Certified Dental Assistants

**Definition:** Certified Dental Assistants (Level II Dental Auxiliaries) register with the College of Dental Surgeons of British Columbia (CDSBC)<sup>1</sup>. (See *ROLLCALL 95* for a detailed definition of this group.) Those included in this report had British Columbia addresses at the date of record. Registration with the CDSBC does not necessarily imply employment as a dental assistant. Data presented in the tables are based on home address for the majority of certified dental assistants. Precise percentages of home vs. employment or other address are not known.

**Date of Record:** November 1995.

**Source of Data:** The College of Dental Surgeons of British Columbia (CDSBC).

**Discussion:**

Figure 1 and Table 1 show the location of certified dental assistants (CDAs) by place of graduation. Table 2 presents this same information for new registrants (registrants to the CDSBC between October 1993 and November 1995), and Figure 2 compares new registrants by place of graduation with the total registration group. Figure 1 indicates that the vast majority of CDAs are trained in British Columbia. Figure 2 shows a fairly equal representation of graduates from B.C., but a slightly lower proportion of Other Canada graduates and Other Country graduates among the new registrants compared to the total group.

Tables 1 and 2 show the CDAs by specific province or country of graduation; 91.41% of the total registration group graduated in B.C., 4.75% in the remainder of Canada, and 3.81% in other countries. The new registrants show a similar distribution, with B.C. graduates making up 92.22%, other Canadian graduates 4.05% and graduates from other countries 3.57%. In both Table 1 and Table 2, graduates from the U.S. account for the majority of foreign graduates (3.06% and 2.92% respectively). Most non-B.C. Canadian graduates come from the prairie provinces, and most of those from Alberta, though Alberta's advantage decreases when looking only at the new registrants only (3.54% of the total group vs. 2.76% of new registrants). Looking across the three broad areas of the province, there are some differences in distribution by place of graduation. In Vancouver and District, non-B.C. Canadian graduates are 4.37% of the total group but 2.77% of the new registrants, with the largest difference in the proportion of Alberta graduates (3.35% vs. 1.59%). In contrast, non-B.C. Canadian graduates are 3.60% of the total group and 2.77% of the new registrants in Capital. In Other B.C., non-B.C. Canadian graduates account for 5.35% in Table 1 and 5.68% in Table 2, with the largest difference coming from a higher proportion of Saskatchewan graduates among the new registrants compared to the total group (1.32% vs. 0.83%).

Table 3 expands the information provided in Tables 1 and 2, disaggregating location into health regions; graduates from the Northwest Territories and provinces east of Ontario are aggregated into the category "Other Canada", and foreign graduates are aggregated into the category "Other Country" in this table. Representation of B.C.-graduated CDAs in the health regions ranges from highs of over 96% in Central Vancouver Island (96.78%), and Cariboo and Northern Interior (96.30% each) to close to 85% in West Kootenay-Boundary (85.32%). North West has the highest percentage of CDA graduates from other countries (9.89%). While the number of CDAs in this health region is relatively small (91), this percentage is well above the provincial average at 3.81%. There is one health region, Northern Interior, which show all CDAs as having graduated within Canada.

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<sup>1</sup> The *Dentists Act, 1979* mandates registration with the CDSBC and licensure in order to practise as a certified dental assistant in B.C.

Table 4 uses this same format, this time presenting the average number of years since graduation for CDAs. The total on this table excludes fourteen CDAs for whom year of graduation is unknown. Other Canada graduates have the highest average years since graduation at 13.83, though province-wide totals indicate that there are only six CDAs contributing to this mean; Other Country graduates show the lowest mean at 8.50 years, followed by B.C. graduates at 9.33 years. The B.C. graduates show a small amount of variation within the individual health regions in mean years since graduation, where the range is from 6.77 in North West to 10.89 in North Island/Mid Coast. There is less variation when looking at the "Total" column, where the range is from 7.42 years in North West to 10.91 years in North Island/Mid Coast.

Tables showing mean years since first registration in B.C. and mean age for CDAs are not published as they do not offer a great deal of additional information about this group. The tables have been produced, however, and are available on request.

Figure 1

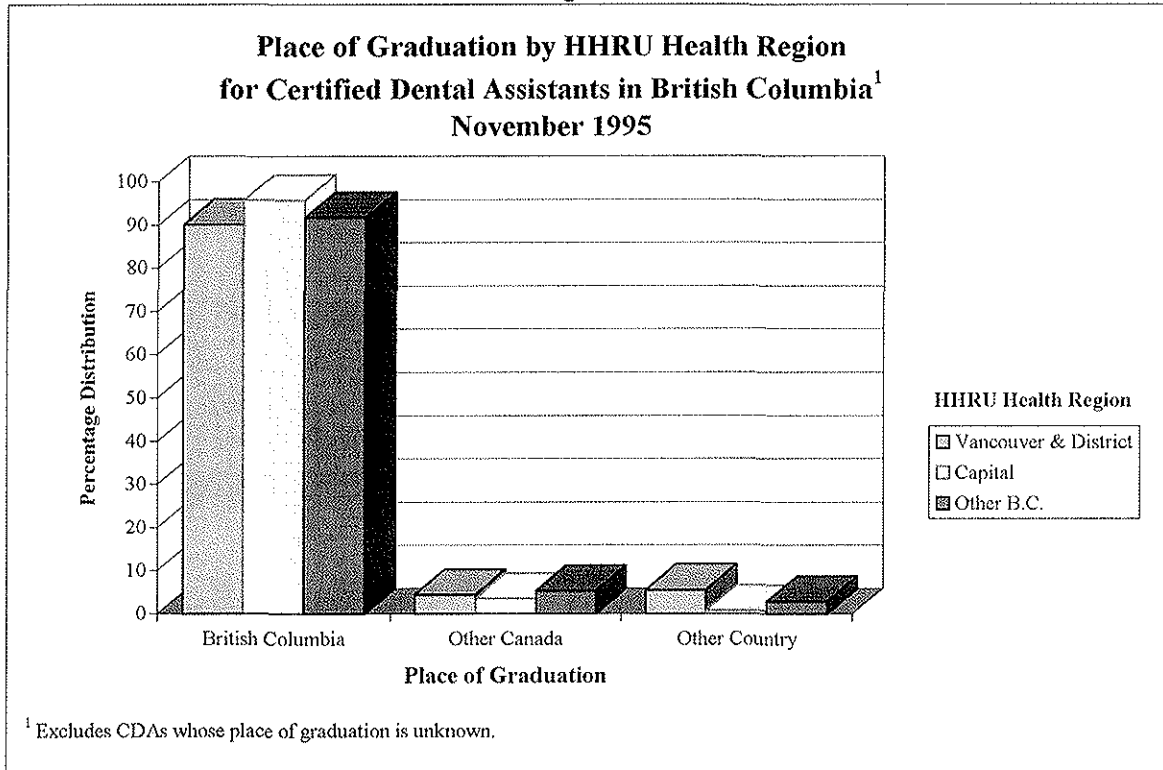
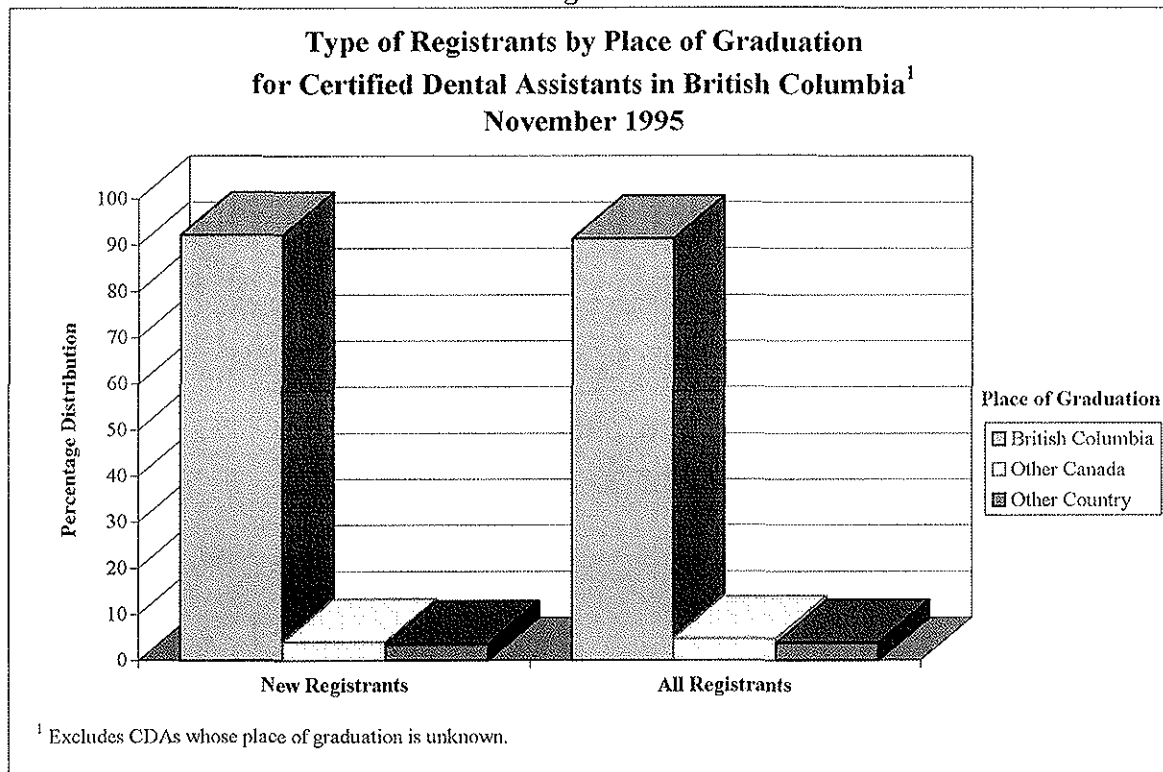


Figure 2



**Table 1**  
**Certified Dental Assistants<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**November 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,773</b>	<b>94.41</b>	<b>414</b>	<b>99.28</b>	<b>1,998</b>	<b>97.13</b>	<b>4,185</b>	<b>96.16</b>
Nova Scotia	1	0.05	0	0.00	0	0.00	1	0.02
New Brunswick	1	0.05	0	0.00	1	0.05	2	0.05
Quebec	0	0.00	0	0.00	1	0.05	1	0.02
Ontario	2	0.11	0	0.00	2	0.10	4	0.09
Manitoba	5	0.27	5	1.20	6	0.29	16	0.37
Saskatchewan	9	0.48	1	0.24	17	0.83	27	0.62
Alberta	63	3.35	9	2.16	82	3.99	154	3.54
British Columbia	1,691	90.04	399	95.68	1,888	91.78	3,978	91.41
Northwest Territories	1	0.05	0	0.00	1	0.05	2	0.05
<b>Non-Canadian Subtotal</b>	<b>104</b>	<b>5.54</b>	<b>3</b>	<b>0.72</b>	<b>59</b>	<b>2.87</b>	<b>166</b>	<b>3.81</b>
<b>North &amp; Central America Subtotal</b>	<b>75</b>	<b>3.99</b>	<b>3</b>	<b>0.72</b>	<b>56</b>	<b>2.72</b>	<b>134</b>	<b>3.08</b>
Mexico	1	0.05	0	0.00	0	0.00	1	0.02
United States of America	74	3.94	3	0.72	56	2.72	133	3.06
<b>South America Subtotal</b>	<b>2</b>	<b>0.11</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.05</b>
Argentina	1	0.05	0	0.00	0	0.00	1	0.02
Ecuador	1	0.05	0	0.00	0	0.00	1	0.02
<b>Europe Subtotal</b>	<b>5</b>	<b>0.27</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.10</b>	<b>7</b>	<b>0.16</b>
Germany	0	0.00	0	0.00	1	0.05	1	0.02
Hungary	1	0.05	0	0.00	0	0.00	1	0.02
Sweden	1	0.05	0	0.00	0	0.00	1	0.02
United Kingdom	3	0.16	0	0.00	1	0.05	4	0.09
<b>Asia Subtotal</b>	<b>19</b>	<b>1.01</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.05</b>	<b>20</b>	<b>0.46</b>
Hong Kong	7	0.37	0	0.00	0	0.00	7	0.16
India	1	0.05	0	0.00	0	0.00	1	0.02
Philippines	10	0.53	0	0.00	1	0.05	11	0.25
Sri Lanka	1	0.05	0	0.00	0	0.00	1	0.02
<b>Oceania Subtotal</b>	<b>3</b>	<b>0.16</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>0.07</b>
New Zealand	3	0.16	0	0.00	0	0.00	3	0.07
<b>Unknown</b>	<b>1</b>	<b>0.05</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.02</b>
<b>TOTAL</b>	<b>1,878</b>	<b>100.00</b>	<b>417</b>	<b>100.00</b>	<b>2,057</b>	<b>100.00</b>	<b>4,352</b>	<b>100.00</b>

<sup>1</sup>Excludes 13 CDAs with unknown location.

**Table 2**  
**Certified Dental Assistants in British Columbia**  
**New Registrants<sup>1</sup>**  
**by Place of Graduation by HHRU Health Region**  
**November 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>235</b>	<b>93.25</b>	<b>61</b>	<b>100.00</b>	<b>298</b>	<b>98.03</b>	<b>594</b>	<b>96.27</b>
New Brunswick	1	0.40	0	0.00	1	0.33	2	0.32
Saskatchewan	2	0.79	0	0.00	4	1.32	6	0.97
Alberta	4	1.59	1	1.64	12	3.95	17	2.76
British Columbia	228	90.48	60	98.36	281	92.43	569	92.22
<b>Non-Canadian Subtotal</b>	<b>16</b>	<b>6.35</b>	<b>0</b>	<b>0.00</b>	<b>6</b>	<b>1.97</b>	<b>22</b>	<b>3.57</b>
<b>North &amp; Central America Subtotal</b>	<b>12</b>	<b>4.76</b>	<b>0</b>	<b>0.00</b>	<b>6</b>	<b>1.97</b>	<b>18</b>	<b>2.92</b>
United States of America	12	4.76	0	0.00	6	1.97	18	2.92
<b>Asia Subtotal</b>	<b>4</b>	<b>1.59</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>0.65</b>
Hong Kong	1	0.40	0	0.00	0	0.00	1	0.16
Philippines	3	1.19	0	0.00	0	0.00	3	0.49
<b>Unknown</b>	<b>1</b>	<b>0.40</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.16</b>
<b>TOTAL</b>	<b>252</b>	<b>100.00</b>	<b>61</b>	<b>100.00</b>	<b>304</b>	<b>100.00</b>	<b>617</b>	<b>100.00</b>

<sup>1</sup>CDA's who reported B.C. addresses and were registered in November 1995 and whose date of initial registration was after October 1993.

**Table 3**  
**Certified Dental Assistants<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**November 1995**

Health Region	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	%
1 East Kootenay	82	89.13	6	6.52	2	2.17	0	0.00	0	0.00	90	97.83	2	2.17	0	0.00	92	100.00
2 West Kootenay - Boundary	93	85.32	7	6.42	0	0.00	0	0.00	0	0.00	100	91.74	9	8.26	0	0.00	109	100.00
4 North Okanagan	109	87.20	9	7.20	2	1.60	0	0.00	0	0.00	120	96.00	5	4.00	0	0.00	125	100.00
5 South Okanagan - Similkameen	259	89.93	17	5.90	5	1.74	0	0.00	0	0.00	281	97.57	7	2.43	0	0.00	288	100.00
6 Thompson Valley	128	88.89	12	8.33	0	0.00	1	0.69	0	0.00	141	97.92	3	2.08	0	0.00	144	100.00
7 Upper Fraser Valley	279	92.38	5	1.66	3	0.99	0	0.00	1	0.33	288	95.36	14	4.64	0	0.00	302	100.00
9 South Fraser Valley	524	87.63	19	3.18	7	1.17	0	0.00	1	0.17	551	92.14	47	7.86	0	0.00	598	100.00
10 Simon Fraser	398	90.87	16	3.65	3	0.68	0	0.00	0	0.00	417	95.21	21	4.79	0	0.00	438	100.00
11 Coast Garibaldi	65	90.28	1	1.39	3	4.17	1	1.39	1	1.39	71	98.61	1	1.39	0	0.00	72	100.00
13 Central Vancouver Island	331	96.78	8	2.34	1	0.29	0	0.00	0	0.00	340	99.42	2	0.58	0	0.00	342	100.00
14 North Island/Mid Coast	157	92.35	7	4.12	2	1.18	0	0.00	0	0.00	166	97.65	4	2.35	0	0.00	170	100.00
15 Cariboo	78	96.30	0	0.00	2	2.47	0	0.00	0	0.00	80	98.77	1	1.23	0	0.00	81	100.00
16 North West	78	85.71	3	3.30	0	0.00	0	0.00	1	1.10	82	90.11	9	9.89	0	0.00	91	100.00
17 Peace River - Liard	47	90.38	3	5.77	0	0.00	0	0.00	0	0.00	50	96.15	2	3.85	0	0.00	52	100.00
18 Northern Interior	182	96.30	4	2.12	3	1.59	0	0.00	0	0.00	189	100.00	0	0.00	0	0.00	189	100.00
20 Vancouver	326	90.81	13	3.62	4	1.11	1	0.28	1	0.28	345	96.10	13	3.62	1	0.28	359	100.00
30 Burnaby	144	92.90	3	1.94	0	0.00	1	0.65	1	0.65	149	96.13	6	3.87	0	0.00	155	100.00
40 North Shore	153	92.73	5	3.03	0	0.00	0	0.00	0	0.00	158	95.76	7	4.24	0	0.00	165	100.00
50 Richmond	146	89.57	7	4.29	0	0.00	0	0.00	0	0.00	153	93.87	10	6.13	0	0.00	163	100.00
60 Capital Health	399	95.68	9	2.16	6	1.44	0	0.00	0	0.00	414	99.28	3	0.72	0	0.00	417	100.00
TOTAL	3,978	91.41	154	3.54	43	0.99	4	0.09	6	0.14	4,185	96.16	166	3.81	1	0.02	4,352	100.00

<sup>1</sup> Excludes 13 CDAs with unknown location.

**Table 4**  
**Mean Years since Graduation for Certified Dental Assistants<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**November 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	82	7.89	6	13.00	2	*	0	*	0	*	90	8.28	2	*	0	*	92	8.40
2 West Kootenay - Boundary	93	8.77	6	13.00	0	*	0	*	0	*	99	9.03	9	9.56	0	*	108	9.07
4 North Okanagan	108	10.44	8	12.00	2	*	0	*	0	*	118	10.58	5	12.00	0	*	123	10.63
5 South Okanagan - Similkameen	259	8.86	16	11.44	5	16.20	0	*	0	*	280	9.14	6	5.17	0	*	286	9.06
6 Thompson Valley	127	9.43	12	12.92	0	*	1	*	0	*	140	9.76	3	7.67	0	*	143	9.71
7 Upper Fraser Valley	279	7.78	5	13.20	3	14.33	0	*	1	*	288	7.98	14	5.64	0	*	302	7.87
9 South Fraser Valley	524	10.51	19	12.32	7	14.86	0	*	1	*	551	10.64	47	5.55	0	*	598	10.24
10 Simon Fraser	396	9.27	16	11.31	3	8.00	0	*	0	*	415	9.34	21	8.29	0	*	436	9.29
11 Coast Garibaldi	65	10.75	1	*	3	13.67	1	*	1	*	71	10.87	1	*	0	*	72	10.88
13 Central Vancouver Island	329	9.54	8	9.25	1	*	0	*	0	*	338	9.52	2	*	0	*	340	9.53
14 North Island/Mid Coast	157	10.89	6	11.33	2	*	0	*	0	*	165	10.81	4	15.00	0	*	169	10.91
15 Cariboo	78	8.59	0	*	2	*	0	*	0	*	80	8.56	1	*	0	*	81	8.49
16 North West	78	6.77	3	8.67	0	*	0	*	1	*	82	7.00	9	11.22	0	*	91	7.42
17 Peace River - Liard	46	9.50	3	11.67	0	*	0	*	0	*	49	9.63	2	*	0	*	51	9.59
18 Northern Interior	182	10.40	4	7.25	3	9.33	0	*	0	*	189	10.31	0	*	0	*	189	10.31
20 Vancouver	326	8.33	13	11.85	4	11.50	1	*	1	*	345	8.54	12	10.67	1	*	358	8.64
30 Burnaby	144	9.65	3	12.33	0	*	1	*	1	*	149	9.68	6	4.83	0	*	155	9.50
40 North Shore	153	10.60	5	14.20	0	*	0	*	0	*	158	10.72	7	10.71	0	*	165	10.72
50 Richmond	146	9.33	7	14.14	0	*	0	*	0	*	153	9.55	9	17.56	0	*	162	9.99
60 Capital Health	399	8.72	9	12.67	6	16.17	0	*	0	*	414	8.91	3	13.67	0	*	417	8.94
TOTAL	3,971	9.33	150	11.97	43	12.49	4	12.00	6	13.83	4,174	9.47	163	8.50	1	*	4,338	9.44

<sup>1</sup> Excludes 13 CDAs with unknown location and 14 CDAs with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.





## Dental Hygienists

**Definition:** Dental hygienists (Level III Dental Auxiliaries) register with the College of Dental Hygienists of British Columbia (CDHBC) with either "full", "conditional", or "non-practising" status.<sup>1</sup> Those included in this report were registered with the CDHBC and had a British Columbia address at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) The conditionally licensed category in the tables includes dental public health hygienists and conditionally licensed hygienists who are qualified to practise as dental hygienists, except that they are not authorised to administer local anaesthesia (formerly dental hygienists *on permit*). Registration with the CDHBC does not necessarily imply employment in dental hygiene. Data presented in the tables are based on home address for the majority of dental hygienists. Precise percentages of home vs. employment or other address are not known.

**Date of Record:** April 1996.

**Source of Data:** The College of Dental Hygienists of British Columbia (CDHBC) and the Health Human Resources Unit (HHRU) survey.

### Discussion:

Figure 1 illustrates the location of dental hygienists in B.C. by place of graduation for all hygienists. Table 1 shows the location of dental hygienists in B.C. by place of graduation for full and conditionally licensed dental hygienists. Table 2 shows this same information for new registrants (registrants to the CDSBC and/or CDHBC between October 1993 and April 1996)<sup>2</sup>, and Figure 2 compares new registrants by place of graduation with the total (full and conditionally) registered group. Figure 1 shows that a fairly equal number of hygienists are trained in British Columbia and Other Canada. Figure 2 suggests there are some differences between the total group and the new registrants, with the new registrants having a smaller representation of B.C. graduates. The proportion of B.C. graduates in the total group (Table 1) is 44.38%, but as suggested by Figure 2, a smaller proportion of the new registrants are B.C. graduates (41.84%). For Other Canada graduates the opposite is true, the proportion of new registrants is slightly larger than for the total group (49.65% versus 44.37%). The province which appears to contribute most to this difference is Ontario (13.96% in Table 1 vs. 21.63% in Table 2). In both the total group and the new registrants, U.S. graduates account for the vast majority of foreign-trained dental hygienists; 9.42% of the total group and 7.09% of the new registrants.

The distribution of Canadian-trained and foreign-trained dental hygienists across the three broad areas of the province shows quite a bit of variance on both Table 1 and Table 2. Table 1 indicates that graduates of Alberta programs are more likely to locate in Other B.C. than in Capital or Vancouver and District: 15.44% of dental hygienists in Other B.C. are graduates of Alberta programs, compared to 9.51% in Vancouver and District and 9.32% in Capital. In contrast, graduates of Quebec programs account for 5.87% of dental hygienists in Vancouver and District, but only 3.11% in Capital and 2.51% in Other B.C. Graduates of B.C. programs are more likely to locate in Capital (50.93%) than in Vancouver and District (44.48%) or Other B.C. (42.37%). U.S. graduates account for more than one-tenth of dental hygienists in Vancouver and District (10.35%) and Other B.C. (10.05%), but only 3.11% in Capital. The new registrant table (Table 2) indicates that B.C. graduates are more likely to locate in Capital (68.75%) than in Other B.C. (46.40%) or Vancouver and District (30.40%). Graduates from Quebec represent 5.32% of the new registrant group, but 11.20% of new registrants in Vancouver and District. Comparisons between the two tables should be made with caution, as the numbers in the new registrant table are relatively small.

<sup>1</sup> In order to practise as a dental hygienist in B.C., it is necessary to be registered by the CDHBC and to hold a full or conditional license.

<sup>2</sup> The College of Dental Hygienists of British Columbia (CDHBC) replaced the College of Dental Surgeons of British Columbia (CDSBC) as the regulatory body for dental hygienists in March, 1995.

A table showing all hygienists registered with the CDHBC was also produced. However, all the differences between it and Table 1 were less than one percent so the table has not been included this year. A separate table for only non-practising hygienists is also not included because of the small number of dental hygienists in this registration category; in April 1996 the non-practising category included only 42 hygienists. These tables are available upon request.

Table 3 expands the information provided in Table 1, disaggregating location into health regions; graduates from the provinces east of Ontario are aggregated into the category "Other Canada", and foreign graduates are aggregated into the category "Other Country". The small numbers in some of the health regions must be kept in mind. B.C. graduates comprise 44.27% of the total population of dental hygienists, but make up far higher proportions than this in the Northern Interior (81.67%) and Cariboo (61.90%) health regions. East Kootenay shows the smallest proportion of B.C. graduates, with only four of the twenty-five dental hygienists located there having trained in B.C. Graduates from other countries are 11.19% of the provincial total, but range in representation in the health regions from 24.00% in East Kootenay to 4.17% in Thompson Valley.

Table 4 uses this same format, this time showing mean years since graduation. Total figures show a higher mean years since graduation for dental hygienists graduating in other countries than those graduating in Canada. Among Canadian graduates, the lowest mean years since graduation is for those trained in Other Canada (7.45), followed by graduates of B.C. institutions (8.56). The highest mean years since graduation is found for Alberta graduates (13.57), which suggests that dental hygienists in B.C. who are graduates of Alberta institutions tend to be older or that migration of dental hygienists from Alberta to B.C. has declined in recent years. Looking at the North Shore health region, the mean years since graduation for all categories falls slightly above the averages for the province overall. In contrast, in the Simon Fraser health region the comparable figure falls below the provincial mean for all places of graduation.

Table 5 presents mean years since first registration in B.C. for dental hygienists by health region and by place of graduation. Alberta graduates show the highest mean, at 10.85 years, and Other Canada graduates the lowest at 5.60 years. B.C. graduates registered, on average, 8.48 years ago, but the range in the individual health regions is from 2.79 years in Northern Interior to 13.79 years in Richmond. For the province as a whole, the range goes from 3.87 years in North West to 12.44 years in Richmond.

Table 6 presents mean age by health region and by place of graduation. Among Canadian graduates, Alberta graduates have the highest mean age, at 37.54 years, and Other Canada graduates the lowest at 32.46 years. B.C. graduates, with an average age of 35.02 years, again show a fairly wide difference among the health regions, from 29.75 years in Peace River - Liard to 38.64 years in Coast Garibaldi. In the province as a whole, the North West and Northern Interior health regions show the youngest average age for dental hygienists (31.83 and 31.95 years respectively) and Richmond has the oldest average age (39.08 years).

Figure 1

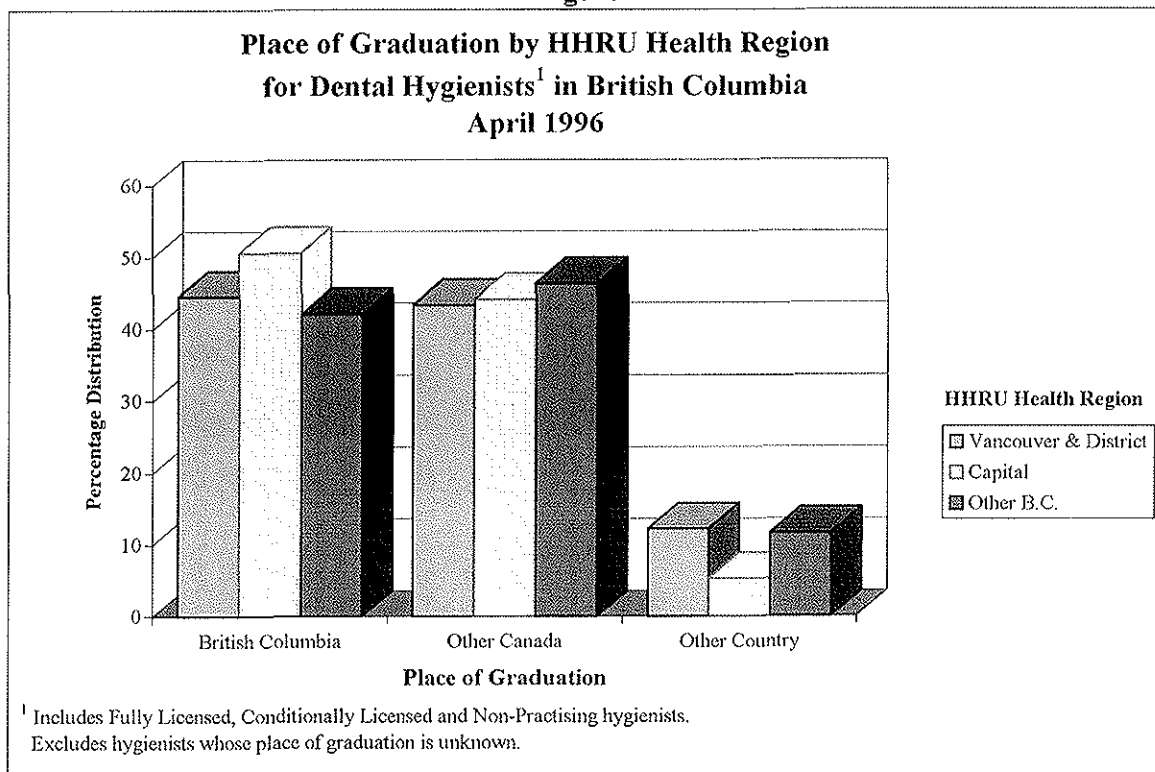
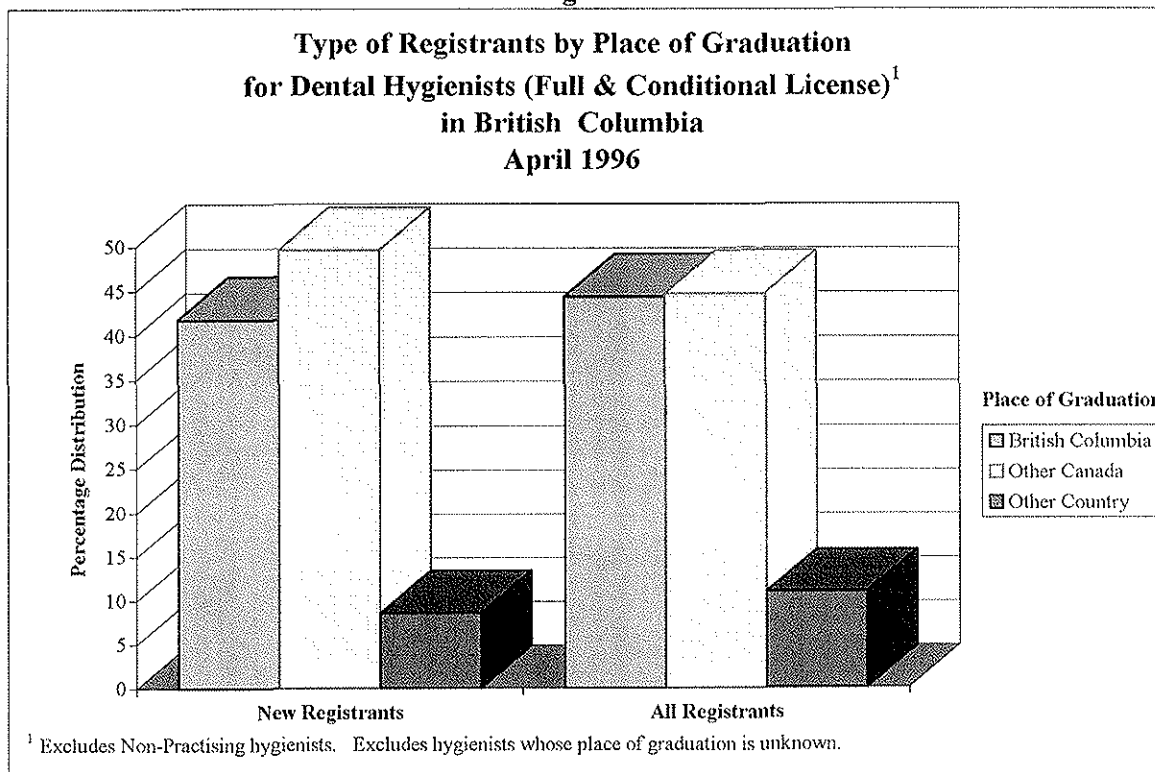


Figure 2



**Table 1**  
**Dental Hygienists (Full & Conditional License)<sup>1,2</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**April 1996**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>629</b>	<b>87.97</b>	<b>154</b>	<b>95.65</b>	<b>494</b>	<b>88.69</b>	<b>1,277</b>	<b>89.11</b>
Nova Scotia	33	4.62	4	2.48	25	4.49	62	4.33
Quebec	42	5.87	5	3.11	14	2.51	61	4.26
Ontario	97	13.57	27	16.77	76	13.64	200	13.96
Manitoba	47	6.57	10	6.21	29	5.21	86	6.00
Saskatchewan	24	3.36	11	6.83	28	5.03	63	4.40
Alberta	68	9.51	15	9.32	86	15.44	169	11.79
British Columbia	318	44.48	82	50.93	236	42.37	636	44.38
<b>Non-Canadian Subtotal</b>	<b>86</b>	<b>12.03</b>	<b>7</b>	<b>4.35</b>	<b>63</b>	<b>11.31</b>	<b>156</b>	<b>10.89</b>
<b>North &amp; Central America Subtotal</b>	<b>76</b>	<b>10.63</b>	<b>5</b>	<b>3.11</b>	<b>57</b>	<b>10.23</b>	<b>138</b>	<b>9.63</b>
Mexico	2	0.28	0	0.00	1	0.18	3	0.21
United States of America	74	10.35	5	3.11	56	10.05	135	9.42
<b>Europe Subtotal</b>	<b>7</b>	<b>0.98</b>	<b>2</b>	<b>1.24</b>	<b>6</b>	<b>1.08</b>	<b>15</b>	<b>1.05</b>
France	1	0.14	0	0.00	0	0.00	1	0.07
Romania	1	0.14	0	0.00	0	0.00	1	0.07
Switzerland	1	0.14	0	0.00	0	0.00	1	0.07
Tajikistan	1	0.14	0	0.00	0	0.00	1	0.07
United Kingdom	3	0.42	2	1.24	6	1.08	11	0.77
<b>Africa Subtotal</b>	<b>3</b>	<b>0.42</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>0.21</b>
South Africa	3	0.42	0	0.00	0	0.00	3	0.21
<b>TOTAL</b>	<b>715</b>	<b>100.00</b>	<b>161</b>	<b>100.00</b>	<b>557</b>	<b>100.00</b>	<b>1,433</b>	<b>100.00</b>

<sup>1</sup>Excludes dental hygienists with Non-Practising registration status.

<sup>2</sup>Excludes 8 dental hygienists with unknown location.

**Table 2**  
**Dental Hygienists (Full & Conditional License)<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**April 1996**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>110</b>	<b>88.00</b>	<b>32</b>	<b>100.00</b>	<b>116</b>	<b>92.80</b>	<b>258</b>	<b>91.49</b>
Nova Scotia	9	7.20	0	0.00	8	6.40	17	6.03
Quebec	14	11.20	0	0.00	1	0.80	15	5.32
Ontario	27	21.60	8	25.00	26	20.80	61	21.63
Manitoba	10	8.00	0	0.00	2	1.60	12	4.26
Saskatchewan	7	5.60	0	0.00	7	5.60	14	4.96
Alberta	5	4.00	2	6.25	14	11.20	21	7.45
British Columbia	38	30.40	22	68.75	58	46.40	118	41.84
<b>Non-Canadian Subtotal</b>	<b>15</b>	<b>12.00</b>	<b>0</b>	<b>0.00</b>	<b>9</b>	<b>7.20</b>	<b>24</b>	<b>8.51</b>
<b>North &amp; Central America Subtotal</b>	<b>12</b>	<b>9.60</b>	<b>0</b>	<b>0.00</b>	<b>8</b>	<b>6.40</b>	<b>20</b>	<b>7.09</b>
United States of America	12	9.60	0	0.00	8	6.40	20	7.09
<b>Europe Subtotal</b>	<b>1</b>	<b>0.80</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.80</b>	<b>2</b>	<b>0.71</b>
France	1	0.80	0	0.00	0	0.00	1	0.35
United Kingdom	0	0.00	0	0.00	1	0.80	1	0.35
<b>Africa Subtotal</b>	<b>2</b>	<b>1.60</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.71</b>
South Africa	2	1.60	0	0.00	0	0.00	2	0.71
<b>TOTAL</b>	<b>125</b>	<b>100.00</b>	<b>32</b>	<b>100.00</b>	<b>125</b>	<b>100.00</b>	<b>282</b>	<b>100.00</b>

<sup>1</sup>Excludes dental hygienists with Non-Practising registration status.

<sup>2</sup>Dental hygienists who reported B.C. addresses and were licensed or on permit in April 1996 and whose date of initial registration was after October 1993.

**Table 3**  
**Dental Hygienists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**April 1996.**

Health Region	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	%
1 East Kootenay	4	16.00	5	20.00	2	8.00	4	16.00	4	16.00	19	76.00	6	24.00	0	0.00	25	100.00
2 West Kootenay - Boundary	5	23.81	5	23.81	2	9.52	6	28.57	1	4.76	19	90.48	2	9.52	0	0.00	21	100.00
4 North Okanagan	14	34.15	9	21.95	7	17.07	3	7.32	2	4.88	35	85.37	6	14.63	0	0.00	41	100.00
5 South Okanagan - Similkameen	27	29.67	23	25.27	13	14.29	11	12.09	5	5.49	79	86.81	12	13.19	0	0.00	91	100.00
6 Thompson Valley	20	41.67	9	18.75	4	8.33	8	16.67	5	10.42	46	95.83	2	4.17	0	0.00	48	100.00
7 Upper Fraser Valley	26	38.24	2	2.94	8	11.76	15	22.06	8	11.76	59	86.76	9	13.24	0	0.00	68	100.00
9 South Fraser Valley	83	47.43	17	9.71	15	8.57	27	15.43	13	7.43	155	88.57	20	11.43	0	0.00	175	100.00
10 Simon Fraser	44	44.90	9	9.18	10	10.20	11	11.22	15	15.31	89	90.82	9	9.18	0	0.00	98	100.00
11 Coast Garibaldi	14	46.67	5	16.67	1	3.33	3	10.00	3	10.00	26	86.67	4	13.33	0	0.00	30	100.00
13 Central Vancouver Island	32	42.67	15	20.00	7	9.33	10	13.33	6	8.00	70	93.33	5	6.67	0	0.00	75	100.00
14 North Island/Mid Coast	15	31.91	3	6.38	7	14.89	11	23.40	3	6.38	39	82.98	8	17.02	0	0.00	47	100.00
15 Cariboo	13	61.90	4	19.05	1	4.76	0	0.00	2	9.52	20	95.24	1	4.76	0	0.00	21	100.00
16 North West	16	51.61	3	9.68	2	6.45	6	19.35	0	0.00	27	87.10	4	12.90	0	0.00	31	100.00
17 Peace River - Liard	4	40.00	3	30.00	0	0.00	1	10.00	0	0.00	8	80.00	2	20.00	0	0.00	10	100.00
18 Northern Interior	49	81.67	3	5.00	3	5.00	0	0.00	0	0.00	55	91.67	5	8.33	0	0.00	60	100.00
20 Vancouver	102	43.59	20	8.55	19	8.12	33	14.10	32	13.68	206	88.03	28	11.97	0	0.00	234	100.00
30 Burnaby	23	48.94	5	10.64	5	10.64	3	6.38	2	4.26	38	80.85	9	19.15	0	0.00	47	100.00
40 North Shore	51	42.50	13	10.83	12	10.00	18	15.00	10	8.33	104	86.67	16	13.33	0	0.00	120	100.00
50 Richmond	25	39.68	6	9.52	11	17.46	8	12.70	5	7.94	55	87.30	8	12.70	0	0.00	63	100.00
60 Capital Health	86	50.59	17	10.00	22	12.94	27	15.88	9	5.29	161	94.71	9	5.29	0	0.00	170	100.00
TOTAL	653	44.27	176	11.93	151	10.24	205	13.90	125	8.47	1,310	88.81	165	11.19	0	0.00	1,475	100.00

<sup>1</sup> Includes Fully Licensed, Conditionally Licensed and Non-Practising dental hygienists.

<sup>2</sup> Excludes 8 dental hygienists with unknown location.

**Table 4**  
**Mean Years since Graduation for Dental Hygienists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**April 1996**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years		
1 East Kootenay	4	3.75	5	10.00	2	*	4	4.00	4	6.50	19	7.32	6	15.33	0	*	25	9.24
2 West Kootenay - Boundary	5	2.80	5	16.20	2	*	6	13.00	1	*	19	9.89	2	*	0	*	21	9.52
4 North Okanagan	14	10.00	9	10.56	7	8.86	3	8.67	2	*	35	9.57	6	13.83	0	*	41	10.20
5 South Okanagan - Similkameen	27	9.04	23	14.83	13	5.77	11	14.36	5	9.80	79	10.97	12	10.08	0	*	91	10.86
6 Thompson Valley	20	8.25	9	13.78	4	12.00	8	10.13	5	3.00	46	9.41	2	*	0	*	48	9.25
7 Upper Fraser Valley	26	9.04	2	*	8	11.50	15	4.53	8	5.00	59	7.86	9	15.33	0	*	68	8.85
9 South Fraser Valley	83	10.64	17	18.76	15	11.07	27	12.85	13	7.15	155	11.66	20	14.35	0	*	175	11.97
10 Simon Fraser	44	7.52	9	11.11	10	9.20	11	9.82	15	5.27	89	7.98	9	12.67	0	*	98	8.41
11 Coast Garibaldi	14	12.71	5	15.20	0	*	3	5.67	3	10.00	25	12.04	4	20.75	0	*	29	13.24
13 Central Vancouver Island	32	7.81	15	17.47	7	12.57	10	9.30	6	9.00	70	10.67	5	11.20	0	*	75	10.71
14 North Island/Mid Coast	15	6.80	3	6.67	7	7.57	11	9.55	3	9.33	39	7.90	8	9.88	0	*	47	8.23
15 Cariboo	13	8.62	4	12.50	1	*	0	*	2	*	20	8.35	1	*	0	*	21	8.10
16 North West	16	4.94	3	3.67	2	*	6	2.67	0	*	27	5.26	4	3.50	0	*	31	5.03
17 Peace River - Liard	4	6.00	3	2.67	0	*	1	*	0	*	8	5.88	2	*	0	*	10	6.50
18 Northern Interior	49	2.73	3	13.00	3	14.33	0	*	0	*	55	3.93	5	21.20	0	*	60	5.37
20 Vancouver	102	9.25	20	10.60	19	9.79	33	7.45	32	6.69	206	8.74	28	13.75	0	*	234	9.34
30 Burnaby	23	8.96	5	10.40	5	7.60	3	2.67	2	*	38	8.08	9	9.22	0	*	47	8.30
40 North Shore	51	12.92	13	19.00	12	12.00	18	15.67	10	10.50	104	13.82	16	12.69	0	*	120	13.67
50 Richmond	25	13.28	6	12.33	11	19.55	8	11.63	5	8.20	55	13.73	8	14.75	0	*	63	13.86
60 Capital Health	86	6.35	17	11.65	22	11.68	27	11.85	9	14.89	161	9.04	9	20.33	0	*	170	9.64
TOTAL	653	8.56	176	13.57	150	10.93	205	10.13	125	7.45	1,309	9.65	165	13.27	0	*	1,474	10.05

<sup>1</sup> Includes Fully Licensed, Conditionally Licensed and Non-Practising dental hygienists.

<sup>2</sup> Excludes 8 dental hygienists with unknown location and 1 with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Dental Hygienists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**April 1996**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	4	3.75	4	7.50	2	*	4	2.75	4	5.25	18	5.22	6	14.00	0	*	24	7.42
2 West Kootenay - Boundary	5	2.80	5	9.80	2	*	6	7.00	1	*	19	6.11	2	*	0	*	21	5.86
4 North Okanagan	14	10.00	9	7.33	7	5.14	2	*	2	*	34	7.35	6	6.17	0	*	40	7.18
5 South Okanagan - Similkameen	27	9.04	23	11.30	13	4.38	11	9.45	5	8.40	79	8.95	12	6.00	0	*	91	8.56
6 Thompson Valley	20	8.25	9	11.56	4	9.25	8	8.50	5	2.40	46	8.39	2	*	0	*	48	8.27
7 Upper Fraser Valley	26	9.04	2	*	8	7.13	14	4.43	8	4.38	58	7.17	9	11.89	0	*	67	7.81
9 South Fraser Valley	83	10.59	17	14.88	15	7.27	27	8.74	13	4.77	155	9.93	19	10.79	0	*	174	10.02
10 Simon Fraser	44	7.52	9	6.00	10	5.20	11	6.55	15	3.87	89	6.37	9	11.33	0	*	98	6.83
11 Coast Garibaldi	14	10.14	5	12.20	1	*	2	*	3	4.67	25	9.80	4	18.00	0	*	29	10.93
13 Central Vancouver Island	32	7.81	15	12.40	7	8.71	10	7.00	6	7.50	70	8.74	5	10.20	0	*	75	8.84
14 North Island/Mid Coast	15	6.80	3	5.00	7	3.86	11	4.45	3	5.67	39	5.38	8	7.63	0	*	47	5.77
15 Cariboo	13	8.62	4	11.25	1	*	0	*	2	*	20	8.00	1	*	0	*	21	7.71
16 North West	16	4.94	3	2.67	2	*	6	1.17	0	*	27	4.11	4	2.25	0	*	31	3.87
17 Peace River - Liard	4	6.00	3	2.67	0	*	1	*	0	*	8	4.25	2	*	0	*	10	5.00
18 Northern Interior	48	2.79	3	12.67	2	*	0	*	0	*	53	3.58	5	10.80	0	*	58	4.21
20 Vancouver	101	9.12	19	9.79	19	6.68	32	4.78	32	5.53	203	7.70	26	11.62	0	*	229	8.15
30 Burnaby	23	8.96	5	9.80	5	5.80	3	1.33	2	*	38	7.66	9	8.33	0	*	47	7.79
40 North Shore	51	12.59	13	17.08	12	11.17	17	11.88	10	6.50	103	12.28	15	9.60	0	*	118	11.94
50 Richmond	24	13.79	6	10.33	11	17.27	8	9.13	4	5.00	53	12.75	8	10.38	0	*	61	12.44
60 Capital Health	86	6.34	17	9.71	22	7.55	27	6.67	9	12.56	161	7.26	9	13.44	0	*	170	7.59
TOTAL	650	8.48	174	10.85	150	7.76	200	6.72	124	5.60	1,298	8.17	161	10.03	0	*	1,459	8.37

<sup>1</sup> Includes Fully Licensed, Conditionally Licensed and Non-Practising dental hygienists.

<sup>2</sup> Excludes 8 dental hygienists with unknown location and 16 with missing or invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3



**Table 6**  
**Mean Age of Dental Hygienists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**April 1996**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	4	35.50	5	35.20	2	*	4	26.50	4	30.50	19	32.79	6	40.50	0	*	25	34.64
2 West Kootenay - Boundary	5	34.40	5	41.20	2	*	6	36.17	1	*	19	36.84	2	*	0	*	21	36.19
4 North Okanagan	14	33.86	9	35.22	7	32.29	3	30.33	2	*	35	33.34	6	41.00	0	*	41	34.46
5 South Okanagan - Similkameen	27	33.63	23	38.83	13	34.38	11	40.73	5	32.80	79	36.20	12	35.50	0	*	91	36.11
6 Thompson Valley	20	33.60	9	38.22	4	40.50	8	37.13	5	27.80	46	35.09	2	*	0	*	48	35.31
7 Upper Fraser Valley	26	35.38	2	*	8	38.00	15	33.33	8	33.13	59	35.10	9	39.89	0	*	68	35.74
9 South Fraser Valley	83	36.63	17	40.53	15	37.40	27	37.07	13	31.54	155	36.78	20	39.15	0	*	175	37.05
10 Simon Fraser	44	34.11	9	33.11	10	35.60	11	35.09	15	29.53	89	33.53	9	36.22	0	*	98	33.78
11 Coast Garibaldi	14	38.64	5	38.20	0	*	3	33.00	3	31.67	25	37.04	4	44.00	0	*	29	38.00
13 Central Vancouver Island	32	35.00	15	40.67	7	37.71	10	38.20	6	32.50	70	36.73	5	35.60	0	*	75	36.65
14 North Island/Mid Coast	15	34.60	3	31.33	7	39.29	11	36.73	3	33.67	39	35.72	8	34.88	0	*	47	35.57
15 Cariboo	13	34.38	4	34.75	1	*	0	*	2	*	20	33.45	1	*	0	*	21	33.38
16 North West	15	31.33	3	32.00	2	*	6	32.33	0	*	26	32.15	4	29.75	0	*	30	31.83
17 Peace River - Liard	4	29.75	3	27.00	0	*	1	*	0	*	8	29.63	2	*	0	*	10	32.20
18 Northern Interior	49	30.00	3	38.00	3	39.00	0	*	0	*	55	30.93	5	43.20	0	*	60	31.95
20 Vancouver	101	35.59	20	35.25	19	34.84	33	33.55	32	32.47	205	34.67	28	37.93	0	*	233	35.06
30 Burnaby	23	34.70	5	34.40	5	31.40	3	28.33	2	*	38	33.26	9	33.56	0	*	47	33.32
40 North Shore	51	38.35	13	41.85	12	38.75	18	38.72	10	37.30	104	38.80	16	36.88	0	*	120	38.54
50 Richmond	25	38.60	6	36.50	11	41.73	7	41.43	5	31.00	54	38.67	8	41.88	0	*	62	39.08
60 Capital Health	86	34.53	17	37.47	22	39.18	27	38.33	9	40.44	161	36.45	9	43.33	0	*	170	36.81
TOTAL	651	35.02	176	37.54	150	37.17	204	36.16	125	32.46	1,306	35.54	165	38.11	0	*	1,471	35.83

<sup>1</sup> Includes Fully Licensed, Conditionally Licensed and Non-Practising dental hygienists.

<sup>2</sup> Excludes 8 dental hygienists with unknown location and 4 with missing or invalid age.

\* Indicates that the base for the mean is less than 3.



## Dentists

**Definition:** Dentists register with the College of Dental Surgeons of British Columbia (CDSBC) with either "licensed", "temporary", or "non-practising status".<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Licensed dentists are those who may legally practice in B.C. Temporary status dentists may not perform dental services for a fee (temporary status may be held for up to one year for the purpose of lecturing or other educational activities in the province). Non-practising status encompasses dentists who are fully registered with the CDSBC but do not have a license to practice in this province. Data presented in the tables are based on employment address for the majority of dentists. Precise percentages of home vs. employment or other address are not known.

**Date of Record:** November 1995.

**Source of Data:** The College of Dental Surgeons of British Columbia (CDSBC).

**Discussion:**

Figure 1 and Table 1 present employment location for licensed dentists by place of graduation. Table 2 presents this same information for new registrants (registrants to the CDSBC between October 1993 and November 1995), and Figure 2 compares new registrants by place of graduation with the total registration group. Figure 1 suggests there are fewer licensed dentists who have graduated in B.C. than from other provinces in Canada. It also shows variation of location within the province by place of graduation, with those in the Capital more likely to be graduates of Other Canada than of either B.C. or other countries. Figure 2 shows a fairly similar distribution of B.C. graduates in the new registrant and total registrant groups, but the new registrants have a smaller proportion of Other Canada graduates than the total group. In Tables 1 and 2, B.C. graduates are 37.39% of the total group and 40.51% of the new registrants, while Other Canada graduates are 46.13% and 40.00% respectively. Much greater differences can be seen when looking at these distributions across the three broad areas of the province. In Vancouver and District, Other Canada graduates are 41.77% of the total group but only 28.57% of the new registrants. Graduates from Nova Scotia, Quebec, Manitoba, Saskatchewan and Alberta all show lower representation in the new registrants compared to the total group. In Other B.C., Other Canada graduates represent 47.85% of the total group but 55.40% of the new registrants, with Nova Scotia, Manitoba, Saskatchewan and Alberta all showing greater representation in the new registrants than in the total group. In Capital, there are only a total of 7 Canadian-graduated new registrants, so any comparisons must be made with caution.

Foreign graduates represent a smaller portion of all licensed dentists when compared to the new registrants (16.48% and 19.49% respectively). The respective contributions of different countries in these two tables, however, show even greater differences; U.S. graduates represent 7.08% of the total group but only 3.59% of the new registrants, and graduates from Hong Kong are 0.45% of the total group but 2.56% of new registrants. As with B.C. and Other Canada graduates, foreign graduates show major differences when looking at distributions across areas of the province. Vancouver and District is the location for twenty-nine of thirty-eight of the new registrants, compared to 210 out of 368 non-Canadian graduates in the total group. Comparisons between the total group and new registrants for Capital and Other B.C. are difficult to make because of the small numbers involved.

Table 3 presents the information in Table 1 for all dentists by health region and by place of graduation; graduates from the provinces east of Ontario are aggregated into the category "Other Canada",

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<sup>1</sup> The *Dentists Act, 1979* mandates registration with the CDSBC and licensure in order to practise as a dentist in B.C.

and foreign graduates are aggregated into the category "Other Country". B.C. graduates are 36.56% of the total population of dentists, but the range in individual health regions is from 14.29% in Peace River-Liard to 53.70% in South Fraser Valley. The range in proportion of Alberta graduates is similarly wide, from 5.71% in Coast Garibaldi to 33.33% in Peace River-Liard.

Table 4 uses this same format, this time presenting mean years since graduation. B.C. graduates show the lowest mean, at 11.73 years, followed by Saskatchewan and Manitoba graduates at 16.36 years. Graduates from other countries record the highest mean years since graduation (21.78), though Alberta graduates are very comparable (21.72 years). Provincial-wide totals show that the Cariboo health region has the lowest mean years since graduation at 14.18 years, and Coast Garibaldi the highest at 19.46 years. Looking at Cariboo across all places of graduation, the average years since graduation is lower than the provincial average for graduates from all the Canadian provinces, but higher for graduates from other countries.

Table 5 considers mean years since first registration with the CDSBC, and again B.C. graduates show the lowest mean at 11.63 years. Foreign graduates do not, however, have the highest mean, as they did in Table 4; it is Alberta graduates who have the highest mean years since first registration, registering with the CDSBC an average of 20.00 years ago. Non-Canadian graduates show the largest difference between averages in Tables 4 and 5 (21.78 vs. 15.89 years respectively), which suggests these graduates may be coming to B.C. with a fair amount of work experience, though years of experience can not be assumed directly from years since graduation.

Table 6 displays mean age for dentists, again by health region and by place of graduation. B.C. graduates show a mean age of 39.09 years, well over three years less than the mean for Saskatchewan and Manitoba graduates of 42.76 years, the next youngest group on average. Graduates from all other areas have much higher average ages, ranging from 46.49 years for Ontario graduates to 48.01 years for Alberta graduates. The overall mean age for dentists is 43.92 years, with a range in the health regions from 39.86 in Cariboo to 46.13 in Capital Regional District. Graduates from different areas are not consistently older or younger than the provincial average in the Capital Regional District. In Cariboo however, Canadian graduates show a younger mean age than the provincial average, while Other Country graduates show an older mean age than the provincial average.

Figure 1

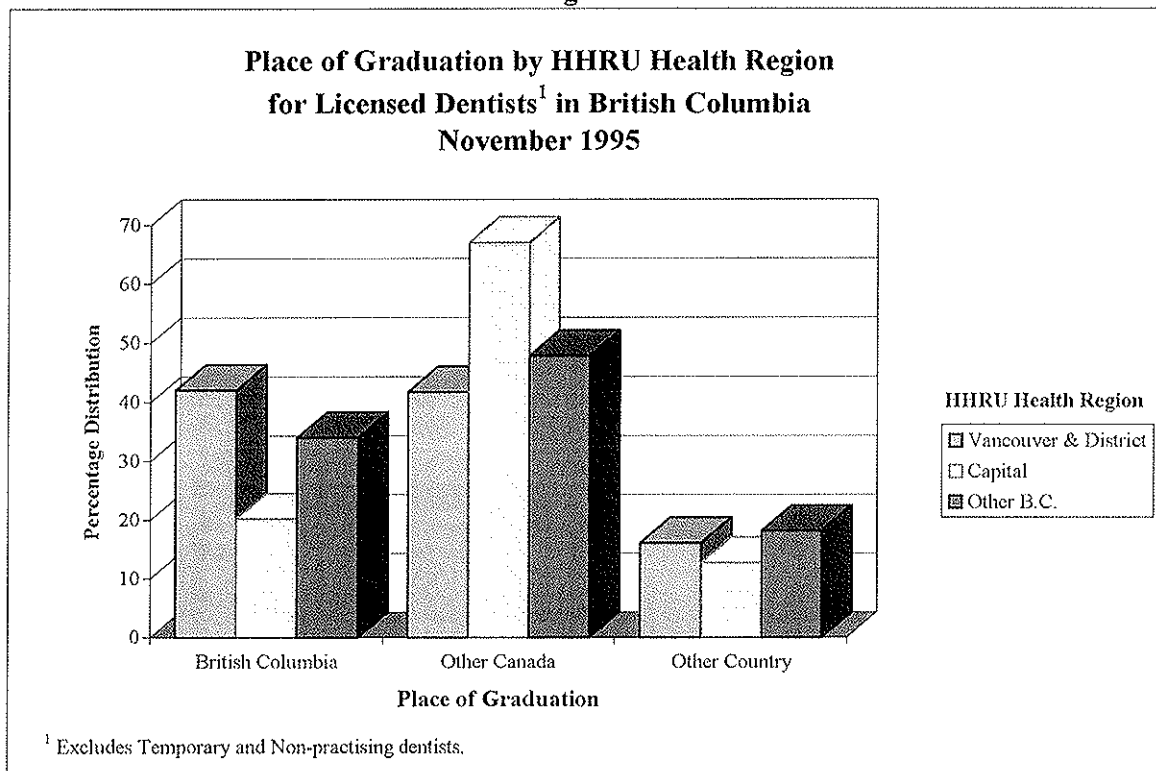
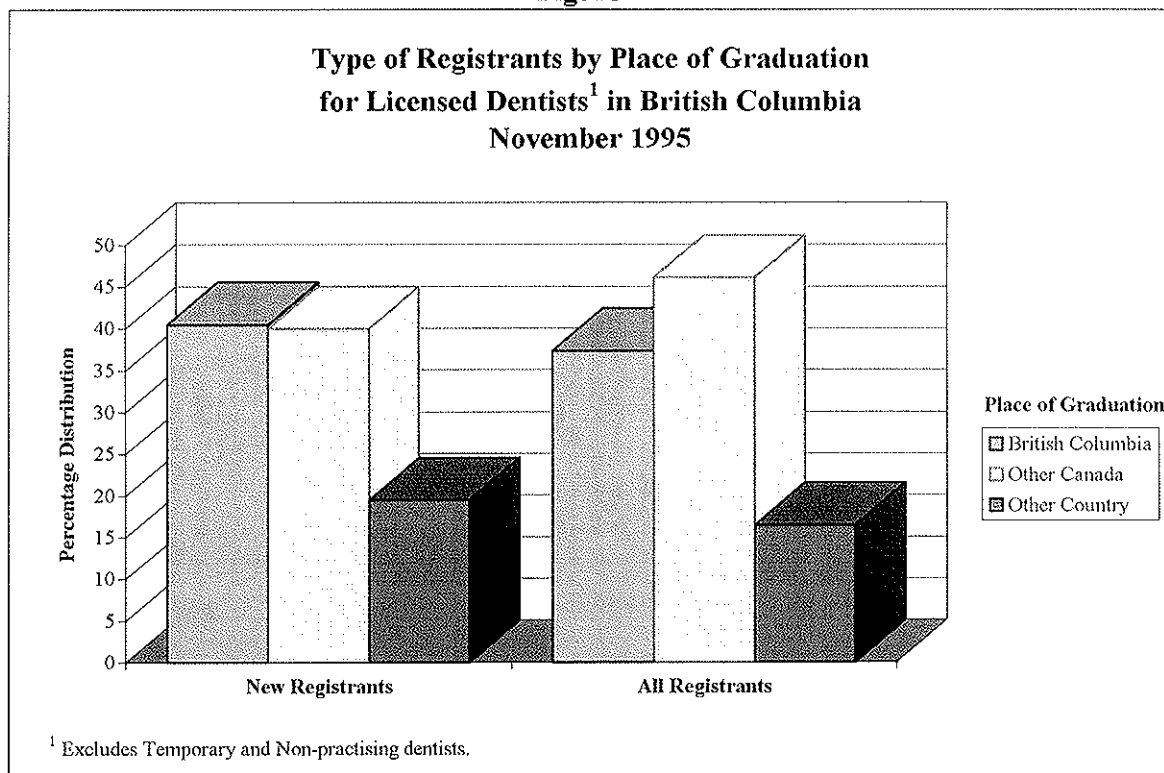


Figure 2



**Table 1**  
**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**November 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,090</b>	<b>83.85</b>	<b>185</b>	<b>87.26</b>	<b>590</b>	<b>81.83</b>	<b>1,865</b>	<b>83.52</b>
Nova Scotia	35	2.69	5	2.36	16	2.22	56	2.51
Quebec	99	7.62	19	8.96	49	6.80	167	7.48
Ontario	114	8.77	38	17.92	51	7.07	203	9.09
Manitoba	113	8.69	18	8.49	35	4.85	166	7.43
Saskatchewan	18	1.38	5	2.36	28	3.88	51	2.28
Alberta	164	12.62	57	26.89	166	23.02	387	17.33
British Columbia	547	42.08	43	20.28	245	33.98	835	37.39
<b>Non-Canadian Subtotal</b>	<b>210</b>	<b>16.15</b>	<b>27</b>	<b>12.74</b>	<b>131</b>	<b>18.17</b>	<b>368</b>	<b>16.48</b>
<b>North &amp; Central America Subtotal</b>	<b>74</b>	<b>5.69</b>	<b>10</b>	<b>4.72</b>	<b>75</b>	<b>10.40</b>	<b>159</b>	<b>7.12</b>
Mexico	1	0.08	0	0.00	0	0.00	1	0.04
United States of America	73	5.62	10	4.72	75	10.40	158	7.08
<b>South America Subtotal</b>	<b>1</b>	<b>0.08</b>	<b>1</b>	<b>0.47</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.09</b>
Brazil	0	0.00	1	0.47	0	0.00	1	0.04
Colombia	1	0.08	0	0.00	0	0.00	1	0.04
<b>Europe Subtotal</b>	<b>80</b>	<b>6.15</b>	<b>14</b>	<b>6.60</b>	<b>48</b>	<b>6.66</b>	<b>142</b>	<b>6.36</b>
Belgium	3	0.23	0	0.00	0	0.00	3	0.13
Czechoslovakia <sup>2</sup>	2	0.15	1	0.47	3	0.42	6	0.27
Germany	0	0.00	0	0.00	2	0.28	2	0.09
Hungary	2	0.15	0	0.00	0	0.00	2	0.09
Iceland	0	0.00	0	0.00	1	0.14	1	0.04
Irish Republic (Eire)	7	0.54	0	0.00	3	0.42	10	0.45
Kyrgyzstan	1	0.08	0	0.00	0	0.00	1	0.04
Netherlands	0	0.00	1	0.47	3	0.42	4	0.18
Poland	7	0.54	0	0.00	2	0.28	9	0.40
Romania	3	0.23	0	0.00	3	0.42	6	0.27
Sweden	1	0.08	0	0.00	1	0.14	2	0.09
United Kingdom	51	3.92	12	5.66	29	4.02	92	4.12
Yugoslavia <sup>2</sup>	3	0.23	0	0.00	1	0.14	4	0.18
<b>Asia Subtotal</b>	<b>36</b>	<b>2.77</b>	<b>1</b>	<b>0.47</b>	<b>1</b>	<b>0.14</b>	<b>38</b>	<b>1.70</b>
Afghanistan	1	0.08	0	0.00	0	0.00	1	0.04
China	1	0.08	0	0.00	0	0.00	1	0.04
Hong Kong	10	0.77	0	0.00	0	0.00	10	0.45
India	7	0.54	0	0.00	0	0.00	7	0.31
Iran	2	0.15	1	0.47	0	0.00	3	0.13
Iraq	2	0.15	0	0.00	0	0.00	2	0.09
Israel	1	0.08	0	0.00	0	0.00	1	0.04
Malaysia	2	0.15	0	0.00	0	0.00	2	0.09
Philippines	5	0.38	0	0.00	1	0.14	6	0.27
Singapore	1	0.08	0	0.00	0	0.00	1	0.04
Taiwan	2	0.15	0	0.00	0	0.00	2	0.09
Turkey	1	0.08	0	0.00	0	0.00	1	0.04
Vietnam	1	0.08	0	0.00	0	0.00	1	0.04

...continued

**Table 1(continued)**  
**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**November 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Africa Subtotal</b>	<b>6</b>	<b>0.46</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.28</b>	<b>8</b>	<b>0.36</b>
Egypt	0	0.00	0	0.00	1	0.14	1	0.04
Kenya	1	0.08	0	0.00	0	0.00	1	0.04
Libya	1	0.08	0	0.00	0	0.00	1	0.04
South Africa	4	0.31	0	0.00	1	0.14	5	0.22
<b>Oceania Subtotal</b>	<b>13</b>	<b>1.00</b>	<b>1</b>	<b>0.47</b>	<b>5</b>	<b>0.69</b>	<b>19</b>	<b>0.85</b>
Australia	8	0.62	0	0.00	4	0.55	12	0.54
Fiji	0	0.00	0	0.00	1	0.14	1	0.04
New Zealand	5	0.38	1	0.47	0	0.00	6	0.27
<b>TOTAL</b>	<b>1,300</b>	<b>100.00</b>	<b>212</b>	<b>100.00</b>	<b>721</b>	<b>100.00</b>	<b>2,233</b>	<b>100.00</b>

<sup>1</sup> Excludes Temporary and Non-Practising dentists.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Licensed Dentists<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**November 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>83</b>	<b>74.11</b>	<b>7</b>	<b>77.78</b>	<b>67</b>	<b>90.54</b>	<b>157</b>	<b>80.51</b>
Nova Scotia	2	1.79	0	0.00	7	9.46	9	4.62
Quebec	8	7.14	0	0.00	2	2.70	10	5.13
Ontario	13	11.61	2	22.22	1	1.35	16	8.21
Manitoba	5	4.46	0	0.00	4	5.41	9	4.62
Saskatchewan	0	0.00	1	11.11	6	8.11	7	3.59
Alberta	4	3.57	2	22.22	21	28.38	27	13.85
British Columbia	51	45.54	2	22.22	26	35.14	79	40.51
<b>Non-Canadian Subtotal</b>	<b>29</b>	<b>25.89</b>	<b>2</b>	<b>22.22</b>	<b>7</b>	<b>9.46</b>	<b>38</b>	<b>19.49</b>
<b>North &amp; Central America Subtotal</b>	<b>4</b>	<b>3.57</b>	<b>1</b>	<b>11.11</b>	<b>2</b>	<b>2.70</b>	<b>7</b>	<b>3.59</b>
United States of America	4	3.57	1	11.11	2	2.70	7	3.59
<b>Europe Subtotal</b>	<b>10</b>	<b>8.93</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>5.41</b>	<b>14</b>	<b>7.18</b>
Czechoslovakia <sup>3</sup>	0	0.00	0	0.00	1	1.35	1	0.51
Germany	0	0.00	0	0.00	1	1.35	1	0.51
Hungary	1	0.89	0	0.00	0	0.00	1	0.51
Poland	2	1.79	0	0.00	1	1.35	3	1.54
Romania	2	1.79	0	0.00	0	0.00	2	1.03
United Kingdom	4	3.57	0	0.00	1	1.35	5	2.56
Yugoslavia <sup>3</sup>	1	0.89	0	0.00	0	0.00	1	0.51
<b>Asia Subtotal</b>	<b>13</b>	<b>11.61</b>	<b>1</b>	<b>11.11</b>	<b>0</b>	<b>0.00</b>	<b>14</b>	<b>7.18</b>
Hong Kong	5	4.46	0	0.00	0	0.00	5	2.56
India	1	0.89	0	0.00	0	0.00	1	0.51
Iran	0	0.00	1	11.11	0	0.00	1	0.51
Israel	1	0.89	0	0.00	0	0.00	1	0.51
Malaysia	1	0.89	0	0.00	0	0.00	1	0.51
Philippines	5	4.46	0	0.00	0	0.00	5	2.56
<b>Africa Subtotal</b>	<b>1</b>	<b>0.89</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.51</b>
South Africa	1	0.89	0	0.00	0	0.00	1	0.51
<b>Oceania Subtotal</b>	<b>1</b>	<b>0.89</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>1.35</b>	<b>2</b>	<b>1.03</b>
Australia	1	0.89	0	0.00	0	0.00	1	0.51
Fiji	0	0.00	0	0.00	1	1.35	1	0.51
<b>TOTAL</b>	<b>112</b>	<b>100.00</b>	<b>9</b>	<b>100.00</b>	<b>74</b>	<b>100.00</b>	<b>195</b>	<b>100.00</b>

<sup>1</sup> Excludes Temporary and Non-Practising Dentists.

<sup>2</sup> Dentists who reported B.C. addresses and were licensed in November 1995 and whose date of initial registration was after October 1993.

<sup>3</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.



**Table 3**  
**Dentists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**November 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan &		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
					Manitoba											
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 East Kootenay	9	27.27	6	18.18	3	9.09	2	6.06	2	6.06	22	66.67	11	33.33	33	100.00
2 West Kootenay - Boundary	15	34.09	14	31.82	1	2.27	4	9.09	2	4.55	36	81.82	8	18.18	44	100.00
4 North Okanagan	16	30.19	16	30.19	6	11.32	3	5.66	5	9.43	46	86.79	7	13.21	53	100.00
5 South Okanagan - Similkameen	28	23.53	29	24.37	14	11.76	8	6.72	17	14.29	96	80.67	23	19.33	119	100.00
6 Thompson Valley	21	40.38	12	23.08	5	9.62	5	9.62	3	5.77	46	88.46	6	11.54	52	100.00
7 Upper Fraser Valley	34	39.53	21	24.42	10	11.63	1	1.16	4	4.65	70	81.40	16	18.60	86	100.00
9 South Fraser Valley	138	53.70	30	11.67	29	11.28	22	8.56	13	5.06	232	90.27	25	9.73	257	100.00
10 Simon Fraser	68	41.98	24	14.81	19	11.73	10	6.17	18	11.11	139	85.80	23	14.20	162	100.00
11 Coast Garibaldi	15	42.86	2	5.71	2	5.71	3	8.57	4	11.43	26	74.29	9	25.71	35	100.00
13 Central Vancouver Island	36	33.64	29	27.10	12	11.21	9	8.41	11	10.28	97	90.65	10	9.35	107	100.00
14 North Island/Mid Coast	20	35.71	13	23.21	5	8.93	6	10.71	5	8.93	49	87.50	7	12.50	56	100.00
15 Cariboo	9	32.14	2	7.14	3	10.71	3	10.71	2	7.14	19	67.86	9	32.14	28	100.00
16 North West	13	33.33	10	25.64	1	2.56	1	2.56	1	2.56	26	66.67	13	33.33	39	100.00
17 Peace River - Liard	3	14.29	7	33.33	2	9.52	1	4.76	5	23.81	18	85.71	3	14.29	21	100.00
18 Northern Interior	26	49.06	6	11.32	1	1.89	5	9.43	4	7.55	42	79.25	11	20.75	53	100.00
20 Vancouver	213	36.98	51	8.85	53	9.20	60	10.42	70	12.15	447	77.60	128	22.22	576	100.00
30 Burnaby	41	35.04	17	14.53	8	6.84	10	8.55	16	13.68	92	78.63	25	21.37	117	100.00
40 North Shore	51	34.93	37	25.34	16	10.96	12	8.22	12	8.22	128	87.67	18	12.33	146	100.00
50 Richmond	43	41.75	10	9.71	10	9.71	5	4.85	10	9.71	78	75.73	25	24.27	103	100.00
60 Capital Health	43	19.91	57	26.39	24	11.11	39	18.06	24	11.11	187	86.57	29	13.43	216	100.00
TOTAL	842	36.56	393	17.06	224	9.73	209	9.08	228	9.90	1,896	82.33	406	17.63	2,303	100.00

<sup>1</sup> Includes Licensed, Temporary and Non-Practising dentists.

**Table 4**  
**Mean Years since Graduation for Dentists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**November 1995**

Health Region	Place of Graduation														TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	9	15.44	6	10.00	3	16.00	2	*	2	*	22	13.00	11	21.09	33	15.70
2 West Kootenay - Boundary	15	9.87	14	14.71	1	*	4	15.00	2	*	36	12.97	8	23.13	44	14.82
4 North Okanagan	16	14.06	16	20.69	6	4.00	3	21.00	5	16.60	46	15.78	7	22.71	53	16.70
5 South Okanagan - Similkameen	28	13.79	28	21.36	14	9.43	8	21.75	17	20.71	95	17.28	23	19.87	118	17.79
6 Thompson Valley	21	12.90	12	25.67	5	12.20	5	23.80	3	15.00	46	17.48	6	22.33	52	18.04
7 Upper Fraser Valley	34	10.18	21	20.62	10	13.10	1	*	4	20.00	70	14.53	16	17.44	86	15.07
9 South Fraser Valley	138	12.08	30	22.27	29	14.21	22	19.86	13	25.38	232	15.15	25	18.04	257	15.43
10 Simon Fraser	68	10.47	24	21.25	19	17.74	10	22.40	18	17.06	139	15.04	23	21.09	162	15.90
11 Coast Garibaldi	15	12.93	2	*	2	*	3	14.00	4	24.50	26	15.96	9	29.56	35	19.46
13 Central Vancouver Island	36	10.97	29	19.76	12	21.58	9	19.78	11	17.82	97	16.51	10	25.80	107	17.37
14 North Island/Mid Coast	20	12.35	13	15.23	5	12.00	6	19.00	5	9.60	49	13.61	7	28.14	56	15.43
15 Cariboo	9	10.44	2	*	3	8.33	3	11.33	2	*	19	9.79	9	23.44	28	14.18
16 North West	13	6.54	10	21.00	1	*	1	*	1	*	26	13.00	13	17.00	39	14.33
17 Peace River - Liard	3	17.00	7	16.14	2	*	1	*	5	6.00	18	13.78	3	20.00	21	14.67
18 Northern Interior	26	12.46	6	18.83	1	*	5	13.60	4	18.50	42	14.07	11	24.82	53	16.30
20 Vancouver	213	11.90	51	26.25	52	18.62	60	21.35	70	22.93	446	17.33	127	22.19	573	18.40
30 Burnaby	41	10.37	17	17.88	8	13.50	10	19.50	16	18.38	92	14.41	25	22.84	117	16.21
40 North Shore	51	11.76	37	26.22	16	22.63	11	21.45	12	21.33	127	19.09	18	22.67	145	19.53
50 Richmond	43	11.79	10	25.20	10	21.60	5	15.00	10	24.20	78	16.56	25	15.56	103	16.32
60 Capital Health	43	12.33	56	21.91	24	17.13	39	19.46	24	19.83	186	18.30	29	26.38	215	19.39
TOTAL	842	11.73	391	21.72	223	16.36	208	19.98	228	20.13	1,892	16.26	405	21.78	2,297	17.23

<sup>1</sup> Includes Licensed, Temporary and Non-Practising dentists.

<sup>2</sup> Excludes 6 dentists with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Dentists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**November 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	9	15.44	6	8.50	3	16.00	2	*	2	*	22	12.45	11	16.91	33	13.94
2 West Kootenay - Boundary	15	9.87	14	14.43	1	*	4	13.25	2	*	36	12.56	8	19.38	44	13.80
4 North Okanagan	16	14.00	16	19.81	6	3.17	3	20.67	5	16.20	46	15.28	7	16.86	53	15.49
5 South Okanagan - Similkameen	28	13.50	28	19.07	14	8.43	8	18.88	17	18.06	95	15.66	23	14.91	118	15.52
6 Thompson Valley	21	12.71	12	23.50	5	9.20	5	19.40	3	13.33	46	15.91	6	17.83	52	16.13
7 Upper Fraser Valley	34	10.09	21	19.57	10	12.00	1	*	4	15.50	70	13.61	16	14.25	86	13.73
9 South Fraser Valley	138	11.98	30	20.40	29	12.10	22	16.27	13	21.00	232	14.00	25	12.60	257	13.86
10 Simon Fraser	68	10.35	24	20.33	19	15.53	10	20.20	18	15.89	139	14.21	23	16.74	162	14.57
11 Coast Garibaldi	15	12.93	2	*	2	*	3	12.33	4	19.25	26	13.62	9	24.89	35	16.51
13 Central Vancouver Island	36	10.89	29	17.24	12	19.00	9	17.11	11	16.18	97	14.97	10	22.20	107	15.64
14 North Island/Mid Coast	20	11.50	13	14.77	5	10.60	6	17.67	5	9.60	49	12.84	7	20.57	56	13.80
15 Cariboo	9	10.44	2	*	3	6.00	3	9.67	2	*	19	9.16	9	18.00	28	12.00
16 North West	13	6.54	10	19.50	1	*	1	*	1	*	26	12.31	13	13.15	39	12.59
17 Peace River - Liard	3	17.00	7	16.14	2	*	1	*	5	3.00	18	12.83	3	14.33	21	13.05
18 Northern Interior	26	12.35	6	18.67	1	*	5	10.40	4	17.75	42	13.52	11	19.18	53	14.70
20 Vancouver	213	11.84	51	24.78	53	16.45	60	18.65	70	20.69	447	16.16	128	14.55	576	15.79
30 Burnaby	41	10.24	17	16.82	8	12.38	10	17.90	16	17.69	92	13.77	25	17.84	117	14.64
40 North Shore	51	11.75	37	24.78	16	21.13	12	19.25	12	19.17	128	18.09	18	15.28	146	17.74
50 Richmond	43	11.72	10	22.10	10	19.30	5	14.20	10	21.40	78	15.42	25	9.72	103	14.04
60 Capital Health	43	12.26	57	19.19	24	15.29	39	16.62	24	15.13	187	16.04	29	21.07	216	16.71
TOTAL	842	11.63	392	20.00	224	14.49	209	17.38	228	17.75	1,895	15.07	406	15.89	2,302	15.21

<sup>1</sup> Includes Licensed, Temporary and Non-Practising dentists.

<sup>2</sup> Excludes 1 dentist with missing or invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3.

**Table 6**  
**Mean Age of Dentists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**November 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	9	43.56	6	35.50	3	43.33	2	*	2	*	22	39.95	11	48.82	33	42.91
2 West Kootenay - Boundary	15	38.53	14	42.14	1	*	4	41.25	2	*	36	40.75	8	50.88	44	42.59
4 North Okanagan	16	40.88	16	47.94	6	32.17	3	50.33	5	42.80	46	43.02	7	47.71	53	43.64
5 South Okanagan - Simiikameen	28	40.61	29	47.34	14	36.71	8	47.25	17	46.59	96	43.69	23	45.30	119	44.00
6 Thompson Valley	21	40.00	12	51.67	5	40.20	5	48.80	3	40.33	46	44.04	6	52.83	52	45.06
7 Upper Fraser Valley	34	37.88	20	45.85	10	40.10	1	*	4	46.75	69	41.19	16	44.56	85	41.82
9 South Fraser Valley	138	39.44	30	48.53	29	41.31	22	45.86	13	53.08	232	42.22	25	43.44	257	42.34
10 Simon Fraser	68	37.22	24	47.79	19	43.42	10	49.90	18	43.89	139	41.67	23	46.78	162	42.40
11 Coast Garibaldi	15	39.47	2	*	2	*	3	38.33	4	50.25	26	42.00	9	54.67	35	45.26
13 Central Vancouver Island	36	38.25	29	46.45	12	48.67	9	48.00	11	46.55	97	43.84	10	53.80	107	44.77
14 North Island/Mid Coast	20	40.40	13	42.46	5	37.20	6	44.33	5	35.40	49	40.59	7	54.43	56	42.32
15 Cariboo	9	36.44	2	*	3	34.33	3	37.33	2	*	19	35.58	9	48.89	28	39.86
16 North West	13	37.31	10	48.90	1	*	1	*	1	*	26	42.08	13	43.46	39	42.54
17 Peace River - Liard	3	48.67	7	40.86	2	*	1	*	5	33.20	18	40.89	3	45.00	21	41.48
18 Northern Interior	26	39.04	6	45.50	1	*	5	39.60	4	43.75	42	40.38	11	52.00	53	42.79
20 Vancouver	213	39.30	51	52.37	52	44.69	60	47.97	70	50.23	446	44.30	126	47.52	572	45.01
30 Burnaby	41	38.02	17	43.47	8	38.63	10	46.00	16	46.00	92	41.34	25	48.20	117	42.80
40 North Shore	51	38.43	37	52.84	16	49.13	11	47.55	12	47.08	127	45.58	18	48.11	145	45.90
50 Richmond	43	38.84	10	50.30	10	47.20	5	42.20	10	50.70	78	43.12	25	40.44	103	42.47
60 Capital Health	43	40.40	56	48.11	24	43.21	39	46.26	24	48.13	186	45.31	29	51.38	215	46.13
TOTAL	842	39.09	391	48.01	223	42.76	208	46.49	228	47.21	1,892	43.16	404	47.51	2,296	43.92

<sup>1</sup> Includes Licensed, Temporary and Non-Practising dentists.

<sup>2</sup> Excludes 7 dentists with missing or invalid age.

\* Indicates that the base for the mean is less than 3.



## II Medical and Treatment Services

## Pharmacists

**Definition:** Pharmacists register with the College of Pharmacists of British Columbia (CPBC).<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Registration with the CPBC does not necessarily imply employment in the field. The data in the tables are presented based on employment address when pharmacists report employment in pharmacy. Employment address was available for 87% of pharmacists employed in pharmacy; home address was used for pharmacists not employed in pharmacy.

**Date of Record:** September 1995.

**Source of Data:** The College of Pharmacists of British Columbia (CPBC).

### Discussion:

Figure 1 and Table 1 present location of pharmacists by place of graduation. Table 2 presents this same information for new registrants (registrants to the CPBC between September 1993 and September 1995), and Figure 2 compares new registrants by place of graduation with the total registration group. Figure 1 indicates that the majority of pharmacists in B.C. graduated in this province. Figure 2 suggests that the new registrants have a smaller proportion of B.C. graduates and larger proportions of graduates from Other Canada and other countries than the total group. Looking at Tables 1 and 2, the percentage of B.C. graduates is shown as 76.73% in the whole group, but only 61.94% in the new registrants. The proportion of Other Canada graduates is only 16.79% of the whole group, but increases to 26.99% of the new registrants. The largest differences seen in the proportions of Other Canada graduates between the two tables occur with Saskatchewan and Alberta graduates, who are 6.62% and 5.53% respectively of the overall group and 11.42% and 10.03% respectively of the new registrants. The differences in the proportions of foreign graduates between Tables 1 and 2 (6.07% on Table 1 and 9.69% on Table 2) are explained mostly by higher proportions of European graduates (2.67% vs. 3.81%), South African graduates (0.62% vs. 2.42%) and Australian graduates (0.29% vs. 1.38%) among the new registrants.

Tables 1 and 2 show larger differences when comparing distributions across the three broadly defined locations in the province. However, the small numbers in some of the cells in Table 2 should be considered when drawing conclusions from these differences. The percentage of B.C. graduates in Vancouver and District on Table 1 is 79.38%, compared to 66.46% on Table 2, while in Other B.C., the percentage of B.C. graduates is 56.88% in Table 1 and 39.45% in Table 2. In Vancouver and District, the proportion of Other Canada graduates in the new registrants is slightly higher than in the overall group (16.47% vs. 12.41%), while in Capital and Other B.C., the differences in the proportions of Other Canada graduates between the new registrants and the overall group are much greater (50.00% vs. 26.97% in Capital, and 39.45% vs. 21.38% in Other B.C.). In particular, the proportions of Alberta graduates are much higher in the new registrant table than in the overall group for both Capital and Other B.C. The distribution across the regions in Table 1 is fairly even with regard to the proportions of Canadian graduates, but varies in proportional representation from the different provinces. B.C. graduates have a high concentration in Vancouver and District, where they are 79.38% of pharmacists, a slightly lower concentration in Other B.C. (74.60%), and are only 68.05% of pharmacists in Capital. In contrast, graduates from Saskatchewan are 3.36% of pharmacists in Vancouver and District, 10.58% in Other B.C. and 12.03% in Capital.

Table 3 displays the information from Table 1 for pharmacists by health region and by place of graduation, with graduates from the provinces east of Ontario are aggregated into the single category

<sup>1</sup> The *Pharmacists, Pharmacy Operations & Drug Scheduling Act, 1993* mandates registration with the CPBC in order to practise as a pharmacist in B.C.

"Other Canada", and foreign graduates aggregated into the single category "Other Country". The provincial average for proportion of B.C. graduates in the health regions is 76.73%, but the range in the individual health regions goes from 61.11% in East Kootenay to 84.85% in Cariboo. East Kootenay has a high percentage of Alberta graduates (19.44% vs. provincial average of 5.53%) and graduates from Manitoba and Saskatchewan (11.11% vs. provincial average of 8.89%). This same sort of distribution can be seen in the South Okanagan-Similkameen health region. The Burnaby health region shows the highest percentage of Other Country graduates at 12.21%, compared to a provincial average of 6.07%.

Table 4 uses this same format, presenting mean years since graduation. Other Canada graduates show the lowest mean years since graduation at 13.78, while Saskatchewan and Manitoba graduates have the highest at 20.86 years. Capital Health shows a higher than provincial average years since graduation in all columns where this is calculated. East Kootenay has the highest mean years since graduation in the Total column at 18.64, compared to North West at 11.20 years (the lowest). Pharmacists in North West, in fact, have a mean years since graduation that is much lower than the provincial average for all places of graduation where this is calculated.

Table 5 presents mean years since first registration in B.C., again by health region and by place of graduation. On this table, it is again the graduates from Other Canada (8.52 years) who show the lowest average. B.C. graduates have been registered with the CPBC for an average of 14.35 years, while Saskatchewan and Manitoba graduates have been registered the longest, at 14.74 years. The discrepancy between mean years since graduation and mean years since first registration suggests graduates from other areas come to B.C. only after some amount of work experience, though the quantity of experience can not be ascertained; some time between graduation and registration in B.C. may be spent unemployed or employed in other fields.

Table 6 looks at pharmacists' mean age by health region and by place of graduation. There is almost an eight year variation in mean age for pharmacists based on place of graduation, with graduates from Other Canada showing the lowest mean age at 36.81 years, and Saskatchewan and Manitoba graduates showing the oldest mean age at 44.30 years. B.C. graduates have a mean age of 38.71 years. The provincial mean age for pharmacists is 39.55 years, with a range from 35.39 years in North West to 42.20 in East Kootenay.



Figure 1

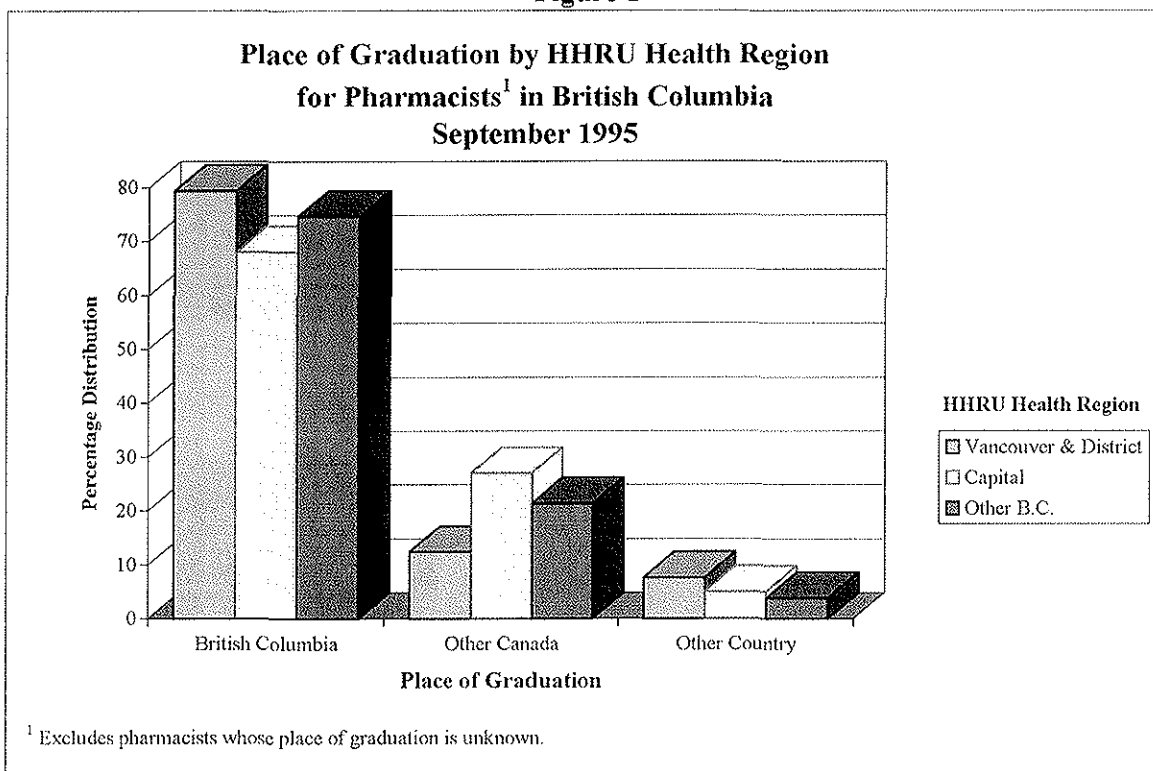
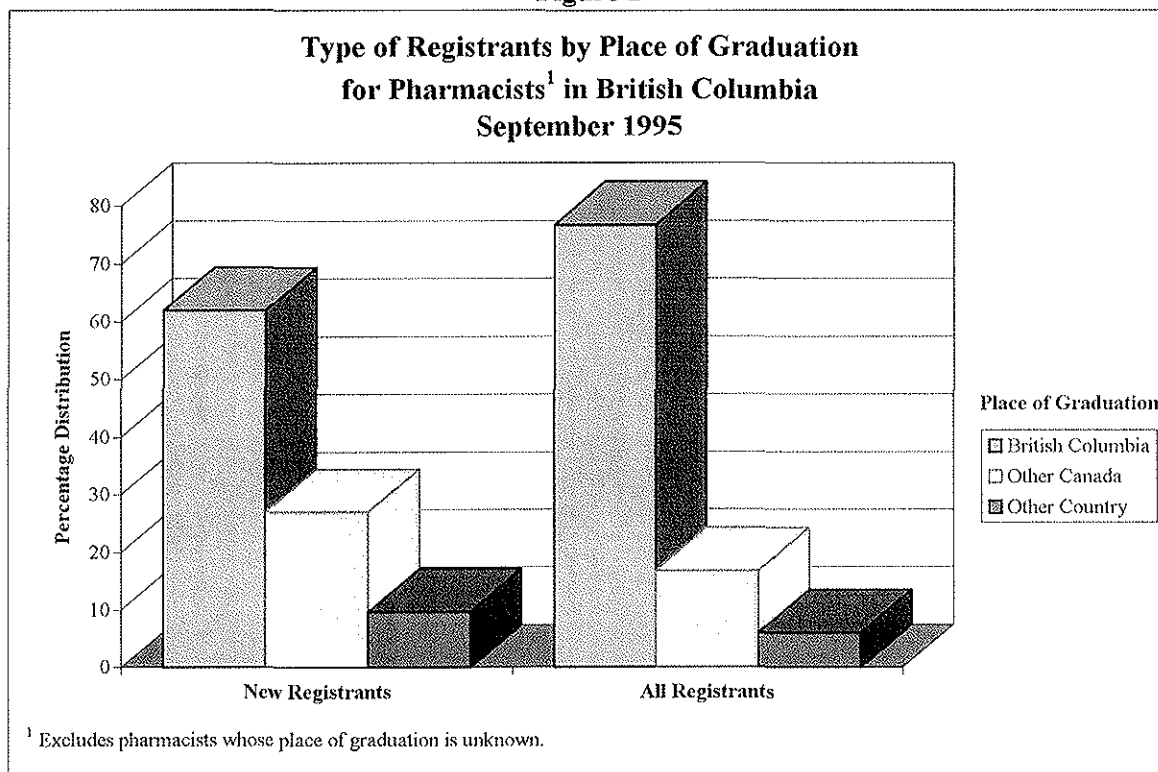


Figure 2



**Table 1**  
**Pharmacists in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**September 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,420</b>	<b>91.79</b>	<b>229</b>	<b>95.02</b>	<b>907</b>	<b>95.98</b>	<b>2,556</b>	<b>93.52</b>
Newfoundland	2	0.13	0	0.00	0	0.00	2	0.07
Nova Scotia	12	0.78	3	1.24	3	0.32	18	0.66
Quebec	6	0.39	0	0.00	1	0.11	7	0.26
Ontario	26	1.68	2	0.83	10	1.06	38	1.39
Manitoba	35	2.26	10	4.15	17	1.80	62	2.27
Saskatchewan	52	3.36	29	12.03	100	10.58	181	6.62
Alberta	59	3.81	21	8.71	71	7.51	151	5.53
British Columbia	1,228	79.38	164	68.05	705	74.60	2,097	76.73
<b>Non-Canadian Subtotal</b>	<b>118</b>	<b>7.63</b>	<b>12</b>	<b>4.98</b>	<b>36</b>	<b>3.81</b>	<b>166</b>	<b>6.07</b>
<b>North &amp; Central America Subtotal</b>	<b>27</b>	<b>1.75</b>	<b>0</b>	<b>0.00</b>	<b>13</b>	<b>1.38</b>	<b>40</b>	<b>1.46</b>
United States of America	27	1.75	0	0.00	13	1.38	40	1.46
<b>Europe Subtotal</b>	<b>51</b>	<b>3.30</b>	<b>7</b>	<b>2.90</b>	<b>15</b>	<b>1.59</b>	<b>73</b>	<b>2.67</b>
Czechoslovakia <sup>1</sup>	0	0.00	1	0.41	0	0.00	1	0.04
Germany	1	0.06	1	0.41	2	0.21	4	0.15
Greece	0	0.00	0	0.00	1	0.11	1	0.04
Hungary	0	0.00	0	0.00	1	0.11	1	0.04
Italy	1	0.06	0	0.00	0	0.00	1	0.04
Poland	2	0.13	0	0.00	0	0.00	2	0.07
Romania	1	0.06	0	0.00	0	0.00	1	0.04
United Kingdom	42	2.71	4	1.66	10	1.06	56	2.05
Yugoslavia <sup>1</sup>	4	0.26	1	0.41	1	0.11	6	0.22
<b>Asia Subtotal</b>	<b>22</b>	<b>1.42</b>	<b>3</b>	<b>1.24</b>	<b>0</b>	<b>0.00</b>	<b>25</b>	<b>0.91</b>
China	1	0.06	0	0.00	0	0.00	1	0.04
India	1	0.06	0	0.00	0	0.00	1	0.04
Japan	1	0.06	2	0.83	0	0.00	3	0.11
Korea (North or South unspecified)	1	0.06	0	0.00	0	0.00	1	0.04
Pakistan	2	0.13	0	0.00	0	0.00	2	0.07
Philippines	4	0.26	0	0.00	0	0.00	4	0.15
Singapore	2	0.13	0	0.00	0	0.00	2	0.07
South Korea	1	0.06	1	0.41	0	0.00	2	0.07
Taiwan	5	0.32	0	0.00	0	0.00	5	0.18
Thailand	1	0.06	0	0.00	0	0.00	1	0.04
Turkey	1	0.06	0	0.00	0	0.00	1	0.04
Vietnam	2	0.13	0	0.00	0	0.00	2	0.07
<b>Africa Subtotal</b>	<b>11</b>	<b>0.71</b>	<b>2</b>	<b>0.83</b>	<b>6</b>	<b>0.63</b>	<b>19</b>	<b>0.70</b>
Egypt	1	0.06	1	0.41	0	0.00	2	0.07
South Africa	10	0.65	1	0.41	6	0.63	17	0.62
<b>Oceania Subtotal</b>	<b>7</b>	<b>0.45</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.21</b>	<b>9</b>	<b>0.33</b>
Australia	7	0.45	0	0.00	1	0.11	8	0.29
New Zealand	0	0.00	0	0.00	1	0.11	1	0.04
<b>Unknown</b>	<b>9</b>	<b>0.58</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.21</b>	<b>11</b>	<b>0.40</b>
<b>TOTAL</b>	<b>1,547</b>	<b>100.00</b>	<b>241</b>	<b>100.00</b>	<b>945</b>	<b>100.00</b>	<b>2,733</b>	<b>100.00</b>

<sup>1</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Pharmacists in British Columbia**  
**New Registrants<sup>1</sup>**  
**by Place of Graduation by HHRU Health Region**  
**September 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>136</b>	<b>82.93</b>	<b>16</b>	<b>100.00</b>	<b>105</b>	<b>96.33</b>	<b>257</b>	<b>88.93</b>
Newfoundland	2	1.22	0	0.00	0	0.00	2	0.69
Nova Scotia	1	0.61	1	6.25	0	0.00	2	0.69
Quebec	1	0.61	0	0.00	1	0.92	2	0.69
Ontario	4	2.44	0	0.00	0	0.00	4	1.38
Manitoba	4	2.44	0	0.00	2	1.83	6	2.08
Saskatchewan	8	4.88	2	12.50	23	21.10	33	11.42
Alberta	7	4.27	5	31.25	17	15.60	29	10.03
British Columbia	109	66.46	8	50.00	62	56.88	179	61.94
<b>Non-Canadian Subtotal</b>	<b>24</b>	<b>14.63</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>3.67</b>	<b>28</b>	<b>9.69</b>
<b>North &amp; Central America Subtotal</b>	<b>2</b>	<b>1.22</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.92</b>	<b>3</b>	<b>1.04</b>
United States of America	2	1.22	0	0.00	1	0.92	3	1.04
<b>Europe Subtotal</b>	<b>10</b>	<b>6.10</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.92</b>	<b>11</b>	<b>3.81</b>
Poland	1	0.61	0	0.00	0	0.00	1	0.35
United Kingdom	8	4.88	0	0.00	0	0.00	8	2.77
Yugoslavia <sup>2</sup>	1	0.61	0	0.00	1	0.92	2	0.69
<b>Asia Subtotal</b>	<b>3</b>	<b>1.83</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>1.04</b>
India	1	0.61	0	0.00	0	0.00	1	0.35
Philippines	1	0.61	0	0.00	0	0.00	1	0.35
Thailand	1	0.61	0	0.00	0	0.00	1	0.35
<b>Africa Subtotal</b>	<b>5</b>	<b>3.05</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>1.83</b>	<b>7</b>	<b>2.42</b>
South Africa	5	3.05	0	0.00	2	1.83	7	2.42
<b>Oceania Subtotal</b>	<b>4</b>	<b>2.44</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>1.38</b>
Australia	4	2.44	0	0.00	0	0.00	4	1.38
<b>Unknown</b>	<b>4</b>	<b>2.44</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>1.38</b>
<b>TOTAL</b>	<b>164</b>	<b>100.00</b>	<b>16</b>	<b>100.00</b>	<b>109</b>	<b>100.00</b>	<b>289</b>	<b>100.00</b>

<sup>1</sup> Pharmacists who reported B.C. addresses and were registered in September 1995 and whose date of initial registration was after September 1993.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 3**  
**Pharmacists in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	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	%
1 East Kootenay	22	61.11	7	19.44	4	11.11	0	0.00	0	0.00	33	91.67	3	8.33	0	0.00	36	100.00
2 West Kootenay - Boundary	42	73.68	10	17.54	4	7.02	0	0.00	0	0.00	56	98.25	1	1.75	0	0.00	57	100.00
4 North Okanagan	60	77.92	4	5.19	11	14.29	0	0.00	0	0.00	75	97.40	1	1.30	1	1.30	77	100.00
5 South Okanagan - Similkameen	103	69.13	21	14.09	22	14.77	1	0.67	0	0.00	147	98.66	2	1.34	0	0.00	149	100.00
6 Thompson Valley	61	76.25	4	5.00	9	11.25	0	0.00	1	1.25	75	93.75	4	5.00	1	1.25	80	100.00
7 Upper Fraser Valley	101	78.91	4	3.13	12	9.38	1	0.78	1	0.78	119	92.97	9	7.03	0	0.00	128	100.00
9 South Fraser Valley	229	77.89	14	4.76	28	9.52	2	0.68	3	1.02	276	93.88	17	5.78	1	0.34	294	100.00
10 Simon Fraser	153	77.66	7	3.55	12	6.09	5	2.54	6	3.05	183	92.89	14	7.11	0	0.00	197	100.00
11 Coast Garibaldi	42	76.36	6	10.91	5	9.09	1	1.82	0	0.00	54	98.18	1	1.82	0	0.00	55	100.00
13 Central Vancouver Island	106	78.52	3	2.22	17	12.59	3	2.22	1	0.74	130	96.30	5	3.70	0	0.00	135	100.00
14 North Island/Mid Coast	37	71.15	4	7.69	7	13.46	1	1.92	1	1.92	50	96.15	2	3.85	0	0.00	52	100.00
15 Cariboo	28	84.85	0	0.00	4	12.12	0	0.00	0	0.00	32	96.97	1	3.03	0	0.00	33	100.00
16 North West	37	68.52	1	1.85	10	18.52	3	5.56	0	0.00	51	94.44	3	5.56	0	0.00	54	100.00
17 Peace River - Liard	24	77.42	3	9.68	2	6.45	0	0.00	0	0.00	29	93.55	2	6.45	0	0.00	31	100.00
18 Northern Interior	42	72.41	4	6.90	10	17.24	0	0.00	0	0.00	56	96.55	2	3.45	0	0.00	58	100.00
20 Vancouver	529	79.67	25	3.77	29	4.37	14	2.11	8	1.20	605	91.11	53	7.98	6	0.90	664	100.00
30 Burnaby	106	80.92	2	1.53	4	3.05	1	0.76	1	0.76	114	87.02	16	12.21	1	0.76	131	100.00
40 North Shore	119	82.64	7	4.86	6	4.17	2	1.39	1	0.69	135	93.75	9	6.25	0	0.00	144	100.00
50 Richmond	92	78.63	4	3.42	8	6.84	2	1.71	1	0.85	107	91.45	9	7.69	1	0.85	117	100.00
60 Capital Health	164	68.05	21	8.71	39	16.18	2	0.83	3	1.24	229	95.02	12	4.98	0	0.00	241	100.00
TOTAL	2,097	76.73	151	5.53	243	8.89	38	1.39	27	0.99	2,556	93.52	166	6.07	11	0.40	2,733	100.00

**Table 4**  
**Mean Years since Graduation for Pharmacists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	Place of Graduation														TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	22	16.23	7	21.29	4	23.75	0	*	0	*	33	18.21	3	23.33	36	18.64
2 West Kootenay - Boundary	42	18.55	10	16.50	4	9.25	0	*	0	*	56	17.52	1	*	57	17.93
4 North Okanagan	60	15.95	4	15.50	11	19.45	0	*	0	*	75	16.44	1	*	76	16.43
5 South Okanagan - Similkameen	103	17.12	21	21.43	22	21.32	1	*	0	*	147	18.38	2	*	149	18.34
6 Thompson Valley	61	15.66	4	31.25	9	16.11	0	*	1	*	75	16.41	4	17.75	79	16.48
7 Upper Fraser Valley	101	13.77	4	18.25	12	20.00	1	*	1	*	119	14.41	9	18.11	128	14.67
9 South Fraser Valley	229	13.46	14	19.14	28	23.93	1	*	3	19.00	275	14.92	17	15.18	292	14.93
10 Simon Fraser	153	16.07	7	16.71	12	19.50	5	18.00	6	14.17	183	16.31	14	21.29	197	16.66
11 Coast Garibaldi	42	16.98	6	8.67	5	10.40	1	*	0	*	54	15.78	1	*	55	16.24
13 Central Vancouver Island	106	15.94	3	17.00	17	23.18	3	14.33	1	*	130	16.85	5	24.00	135	17.11
14 North Island/Mid Coast	37	12.43	4	6.50	7	17.14	1	*	1	*	50	12.94	2	*	52	13.00
15 Cariboo	28	14.57	0	*	4	22.25	0	*	0	*	32	15.53	1	*	33	15.97
16 North West	37	11.19	1	*	10	10.70	3	11.67	0	*	51	11.24	3	10.67	54	11.20
17 Peace River - Liard	24	15.50	3	11.33	2	*	0	*	0	*	29	15.48	2	*	31	16.26
18 Northern Interior	42	12.05	4	10.50	10	17.70	0	*	0	*	56	12.95	2	*	58	13.52
20 Vancouver	528	13.16	25	15.52	29	19.45	14	15.64	8	14.50	604	13.64	53	18.62	657	14.04
30 Burnaby	106	13.70	2	*	4	26.50	1	*	1	*	114	14.11	16	17.75	130	14.56
40 North Shore	119	16.60	7	25.71	6	22.50	2	*	1	*	135	17.13	9	17.22	144	17.14
50 Richmond	92	13.01	4	15.25	8	23.13	2	*	1	*	107	14.13	9	19.44	116	14.54
60 Capital Health	164	15.49	20	19.65	39	25.46	2	*	3	16.00	228	17.56	12	23.08	240	17.83
TOTAL	2,096	14.51	150	17.85	243	20.86	37	16.73	27	13.78	2,553	15.34	166	19.23	2,719	15.58

<sup>1</sup> Excludes 14 pharmacists with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Pharmacists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years		
1 East Kootenay	22	14.91	7	11.00	4	18.25	0	*	0	*	33	14.48	3	15.67	0	*	36	14.58
2 West Kootenay - Boundary	42	18.21	10	6.40	4	5.50	0	*	0	*	56	15.20	1	*	0	*	57	15.63
4 North Okanagan	60	15.82	4	9.75	11	14.09	0	*	0	*	75	15.24	1	*	1	*	77	15.12
5 South Okanagan - Similkameen	103	16.90	21	11.00	22	15.41	1	*	0	*	147	15.76	2	*	0	*	149	15.70
6 Thompson Valley	61	15.51	4	16.50	9	13.22	0	*	1	*	75	15.13	4	9.25	1	*	80	14.73
7 Upper Fraser Valley	101	13.61	4	10.25	12	8.33	1	*	1	*	119	12.78	9	13.67	0	*	128	12.84
9 South Fraser Valley	229	13.37	14	12.36	28	13.82	2	*	3	16.00	276	13.37	17	7.06	1	*	294	13.03
10 Simon Fraser	153	15.82	7	9.14	12	14.58	5	11.80	6	4.50	183	15.01	14	8.43	0	*	197	14.54
11 Coast Garibaldi	42	16.93	6	7.00	5	7.20	1	*	0	*	54	14.69	1	*	0	*	55	14.85
13 Central Vancouver Island	106	15.81	3	9.33	17	16.76	3	9.67	1	*	130	15.59	5	15.20	0	*	135	15.58
14 North Island/Mid Coast	37	12.35	4	3.50	7	12.43	1	*	1	*	50	11.86	2	*	0	*	52	11.63
15 Cariboo	28	14.54	0	*	4	18.00	0	*	0	*	32	14.97	1	*	0	*	33	15.27
16 North West	37	11.08	1	*	10	9.10	3	7.00	0	*	51	10.27	3	7.33	0	*	54	10.11
17 Peace River - Liard	24	15.42	3	3.00	2	*	0	*	0	*	29	13.41	2	*	0	*	31	13.58
18 Northern Interior	42	12.05	4	5.50	10	14.90	0	*	0	*	56	12.09	2	*	0	*	58	12.52
20 Vancouver	528	13.00	25	9.68	29	15.10	14	10.29	8	11.25	604	12.88	53	11.83	6	11.00	663	12.78
30 Burnaby	106	13.57	2	*	4	21.50	1	*	1	*	114	13.65	16	10.56	1	*	131	13.18
40 North Shore	119	16.45	7	17.00	6	12.83	2	*	1	*	135	16.09	9	12.78	0	*	144	15.88
50 Richmond	92	12.75	4	11.50	8	17.88	2	*	1	*	107	13.28	9	12.22	1	*	117	13.26
60 Capital Health	164	15.34	21	11.14	39	18.90	2	*	3	7.67	229	15.38	12	13.17	0	*	241	15.27
TOTAL	2,096	14.35	151	10.11	243	14.74	38	10.61	27	8.52	2,555	14.02	166	11.61	11	12.36	2,732	13.86

<sup>1</sup> Excludes 1 pharmacist with missing or invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3.

**Table 6**  
**Mean Age of Pharmacists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	22	40.18	7	45.57	3	46.33	0	*	0	*	32	41.94	3	45.00	0	*	35	42.20
2 West Kootenay - Boundary	40	42.90	9	38.89	4	34.50	0	*	0	*	53	41.58	1	*	0	*	54	42.02
4 North Okanagan	59	40.37	4	38.75	9	43.67	0	*	0	*	72	40.69	1	*	1	*	74	40.82
5 South Okanagan - Similkameen	103	41.10	21	45.00	20	44.70	1	*	0	*	145	42.17	2	*	0	*	147	42.12
6 Thompson Valley	60	39.32	4	53.00	9	40.33	0	*	1	*	74	40.03	3	41.00	1	*	78	40.08
7 Upper Fraser Valley	101	38.35	4	42.50	12	43.17	1	*	1	*	119	38.79	9	41.22	0	*	128	38.96
9 South Fraser Valley	225	37.64	14	41.57	28	47.00	1	*	3	43.33	271	38.91	16	37.50	1	*	288	38.85
10 Simon Fraser	153	40.27	6	36.33	10	43.30	5	40.80	6	37.83	180	40.24	13	44.00	0	*	193	40.49
11 Coast Garibaldi	42	41.17	6	37.00	5	34.20	1	*	0	*	54	40.33	1	*	0	*	55	40.76
13 Central Vancouver Island	105	40.29	2	*	17	45.59	3	37.00	1	*	128	40.77	5	47.40	0	*	133	41.02
14 North Island/Mid Coast	36	37.89	4	29.75	7	40.43	1	*	1	*	49	37.76	2	*	0	*	51	37.73
15 Cariboo	28	39.89	0	*	4	48.25	0	*	0	*	32	40.94	1	*	0	*	33	41.39
16 North West	37	35.24	1	*	10	34.00	3	35.33	0	*	51	35.12	3	40.00	0	*	54	35.39
17 Peace River - Liard	24	39.88	3	34.33	2	*	0	*	0	*	29	39.62	2	*	0	*	31	40.42
18 Northern Interior	41	36.44	4	37.75	10	41.40	0	*	0	*	55	37.44	2	*	0	*	57	37.96
20 Vancouver	519	37.20	25	38.68	29	43.28	13	39.92	8	37.63	594	37.63	53	41.79	6	37.00	653	37.96
30 Burnaby	105	37.84	2	*	4	51.50	1	*	1	*	113	38.25	14	41.43	1	*	128	38.49
40 North Shore	118	40.53	7	49.00	5	44.60	2	*	1	*	133	40.90	9	40.89	0	*	142	40.90
50 Richmond	92	36.77	4	40.00	7	44.00	2	*	1	*	106	37.69	9	42.67	1	*	116	38.12
60 Capital Health	162	40.01	19	42.79	38	49.26	2	*	3	39.00	224	41.77	12	45.25	0	*	236	41.95
TOTAL	2,072	38.71	146	41.17	233	44.30	36	40.25	27	36.81	2,514	39.37	161	42.48	11	38.36	2,686	39.55

<sup>1</sup> Excludes 47 pharmacists with missing or invalid age.

\* Indicates that the base for the mean is less than 3.

## Physicians

**Definition:** Directory Active physicians are registered by the College of Physicians and Surgeons of British Columbia (CPSBC).<sup>1</sup> Those included in this report were licensed to practise medicine and had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Directory Active includes physicians who are on the "full", "special" or "temporary" registers (temporary includes those who are in postgraduate training or who have a temporary licence to practise). Postgraduate physicians are Directory Active, either on the full or temporary registers, and who, according to CPSBC records, are involved in postgraduate work. Non-postgraduate physicians are Directory Active physicians who, according to CPSBC records, are not involved in postgraduate work. Non-postgraduate physicians are, in some tables, further divided into generalists and specialists; generalists are General Practice and Family Practice physicians, and specialists encompass all other specialty categories. Data presented in the tables are based on employment address for the majority of physicians. Precise percentages of home vs. employment or other address are not known.

**Date of Record:** October 1995.

**Source:** The College of Physicians and Surgeons of British Columbia (CPSBC).

### Discussion:

Figure 1 is a graphic presentation of statistics from Tables 1 and 2 combined, showing present employment location for Directory Active physicians by place of graduation. Table 3 presents the place of graduation for new registrants (registrants to the CPSBC between September 1993 and October 1995) with non-postgraduate status, and Figure 2 compares non-postgraduate new registrants by place of graduation with the total non-postgraduate registration group. Figure 1 shows a predominance of graduates from other Canadian provinces registered with the CPSBC. Figure 2 shows that B.C. graduates account for a smaller percentage of new registrants than total registrants. There also seems to be a slightly higher level of foreign graduates in the new registrants compared with the total group.

Tables 1 and 2 divide the Directory Active physician total into non-postgraduate (Table 1) and postgraduate (Table 2). The proportion of B.C. graduates is slightly lower for non-postgraduate physicians than for postgraduate physicians (25.55% vs. 29.69%), while the proportion of Other Canada graduates is somewhat higher for non-postgraduate physicians than for postgraduate physicians (45.31% vs. 40.22%). There are larger differences when looking at place of graduation by location in the province. In Capital, 53.98% of non-postgraduate physicians are graduates of non-B.C. Canadian medical schools, compared to 36.67% of the postgraduate physicians. In Other B.C. these percentages are 46.24% for the non-postgraduate physicians and 59.09% for the postgraduates, while in Vancouver and District the proportions of non-B.C. Canadian graduates in Tables 1 and 2 are somewhat closer at 43.12% of the non-postgraduate physicians and 39.42% of the postgraduates. In Capital, it is the graduates from B.C. who account for the major differences between Tables 1 and 2; they make up 19.15% of the non-postgraduate physician population but 60.00% of the postgraduate. Ontario also posts a high difference, with 20.65% of non-postgraduates in Capital, and only 10.00% of postgraduate physicians. In Other B.C., graduates from B.C. (23.51% non-postgraduate vs. 40.91% postgraduate) and Ontario (14.46% non-postgraduate vs. 36.36% postgraduate) account for the major differences between Tables 1 and 2.

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<sup>1</sup> The *Medical Practitioners Act, 1979* mandates registration with the CPSBC in order to practise as a physician in B.C.



The range in percentage of foreign graduates among non-postgraduate physicians is from 26.87% in Capital to 30.25% in Other B.C., while the range among postgraduate physicians is from 0.00% in Other B.C. to 32.63% in Vancouver and District. As with Canadian graduates, the non-Canadian portions of the non-postgraduate and postgraduate physician tables are most similar in Vancouver and District. Within the foreign graduates group in Vancouver and District, however, there are some differences worth noting. European graduates represent 15.54% of the non-postgraduate physician population, but 10.73% of the postgraduate. In contrast, Asian graduates comprise 5.85% of the non-postgraduate group but 14.35% of the postgraduates.

Table 3 shows new registrants to the CPSBC with non-postgraduate status. Since it only outlines non-postgraduates, it will be compared with Table 1, the total group of non-postgraduate physicians. The total proportion of Canadian graduates is slightly higher in Table 1 compared to Table 3 (70.86% vs. 69.00%). Looking at changes of greater than 1%, B.C. graduates represent a far smaller proportion of non-postgraduate new registrants than they do in the total group (13.98% vs. 25.55%). Manitoba graduates are also slightly less well-represented among the new registrants (3.34% vs. 4.78%). In contrast, graduates from Newfoundland, Ontario, Saskatchewan and Alberta all show higher percentages among the new registrants compared to the total group (3.04% vs. 1.08%, 19.76% vs. 15.75%, 6.38% vs. 4.12% and 16.41% vs. 12.45% respectively). Among the non-Canadian graduates, there are two large differences that should be noted; European graduates account for 9.73% of the non-postgraduate new registrants (5.17% from the U.K.), but are 16.48% of the total non-postgraduate group (11.92% from the U.K.). Graduates from Africa show an opposite trend, representing 12.77% of the non-postgraduate new registrants (10.94% from South Africa), but are only 5.04% of the total non-postgraduate group (4.43% from South Africa). Non-postgraduate new registrants from South Africa, in fact, are in fourth place behind graduates from Ontario (19.76%), Alberta (16.41%) and B.C. (13.98%) in terms of percentage contribution to the new registrant group.

Table 3 also shows some differences when looking at place of graduation by location in the province. B.C. graduates have their highest representation in Vancouver and District (18.24%) and lowest in Capital (7.14%). Although the proportions of all Other Canada graduates are fairly consistent across the province (55.41% in Vancouver and District, 57.15% in Other B.C. and 54.25% in Capital), the proportions of graduates from the individual provinces show a wider variation. Alberta and Ontario graduates show the highest percentages in Capital (21.43% and 25.00%), compared with Alberta's lowest in Vancouver and District (13.51%) and Ontario's lowest in Other B.C. (16.99%). For foreign graduates, provincial variations also exist. Graduates from Africa, for example, make up 20.92% of the non-postgraduate new registrants in Other B.C., compared with only 10.71% in Capital and 4.73% in Vancouver and District.

The last nine tables in this chapter show subsets of the Directory Active physician group by health region and place of graduation; in all these tables, graduates from the provinces east of Ontario are aggregated into the category "Other Canada", and foreign graduates are aggregated into the category "Other Country". These subsets are used in order to present more specific and useful information about the distribution of physicians in B.C. by place of graduation. Tables 4 to 6 present postgraduate physicians by health region, by mean years since graduation, and by mean age. Tables 7 to 9 repeat these same tables for non-postgraduate generalists, and Tables 10 to 12 show non-postgraduate specialists. Data about date of first registration in B.C. were not available for all physicians, so tables depicting years since first registration were not produced. There is a great deal of information in these tables, and many ways to look at it; the focus of this discussion will be a brief description of the postgraduate group and a short comparison of the non-postgraduate generalists and specialists. It should be noted that the aggregation of like tables (postgraduate plus non-postgraduate generalists plus non-postgraduate specialists) gives the total Directory Active physician population; tables presenting the Directory Active group as a whole were produced, and are available upon request.

Table 4 shows that the vast majority of postgraduate physicians are located in Vancouver (623 out of 714). B.C. graduates make up 27.13% of the postgraduate physicians located in Vancouver, compared to

a provincial total of 29.69%. Graduates from other countries account for 34.19% of the postgraduate physicians in Vancouver, but only 30.39% overall. Capital Health has the largest number of postgraduate physicians outside of Vancouver (30), of which 60.00% are B.C. graduates and only 3.33% graduated outside Canada.

Table 5 shows mean years since graduation for postgraduate physicians. B.C. graduates have the lowest mean years since graduation at 2.40 and graduates from other countries the highest at 9.31. The provincial totals by health region show Vancouver with the highest mean years since graduation (5.22).

Table 6 presents mean age of postgraduate physicians, and shows that graduates from Saskatchewan & Manitoba have the lowest mean age (28.70 years) and graduates from other countries have the highest (34.17 years). As might be expected after examining Table 5, provincial totals by health region show postgraduate physicians in Vancouver with the highest mean age (31.43 years).

Table 7 and Table 10 show the same information for non-postgraduate status generalists and non-postgraduate specialists, respectively. Provincial totals by place of graduation show a far higher proportion of B.C. graduates among the generalists compared to the specialists (31.75% vs. 17.51%, respectively), while the specialists show a far higher proportion of foreign graduates compared to the generalists (35.08% vs. 24.55%). In both tables, there are wide ranges of representation of each place of graduation within the individual health regions; in Table 7, the percentage of B.C. graduates ranges from 13.48% in East Kootenay to 41.43% in the North Shore, while in Table 10 this range is from 0.00% in Peace River-Liard to 24.76% in Richmond. The proportion of generalist graduates from other countries ranges from 15.97% in North Okanagan to 58.82% in Peace River-Liard, while the proportion of specialists who graduated outside Canada goes from 19.87% in South Okanagan-Similkameen to 71.43% in Peace River-Liard. There are also differences between the two tables in proportion of graduates from other provinces, but the magnitude of the differences is smaller.

Tables 8 and 11 show mean years since graduation for non-postgraduate generalists and specialists. In both tables, it is B.C. graduates who have the lowest mean; 14.52 years in Table 8 and 20.45 years in Table 11. Graduates from other countries show the highest mean years since graduation in both tables, at 23.75 in Table 8 and 27.78 in Table 11. The mean years since graduation for generalists is, in fact, lower than for specialists for all places of graduation and all health region totals. The provincial totals by health region suggest a range in means for generalists that is somewhat smaller than that seen by place of graduation; Peace River-Liard has the lowest mean in Table 8 at 14.49 years, and Upper Fraser Valley the highest at 20.36. In Table 11, Northern Interior has the lowest mean at 21.35 years, and Coast Garibaldi the highest at 29.95 years.

Tables 9 and 12 show mean age for non-postgraduate generalist and specialist physicians. As might be expected after examining Tables 8 and 11, the mean age of generalists is lower than that of specialists for all places of graduation and all health region totals. The smallest difference in mean age by place of graduation is seen for graduates of other countries; generalists of this type have an average age of 49.03 years, and specialists are, on average, 52.54 years. The largest difference is seen among the Other Canada graduates, where generalists have a mean age of 43.59 years compared to 50.44 years for specialists. Even larger differences are seen when health region totals are examined; in Peace River-Liard for example, the average age of generalists is 40.08 years, while that of specialists is 53.57 years.

Figure 1

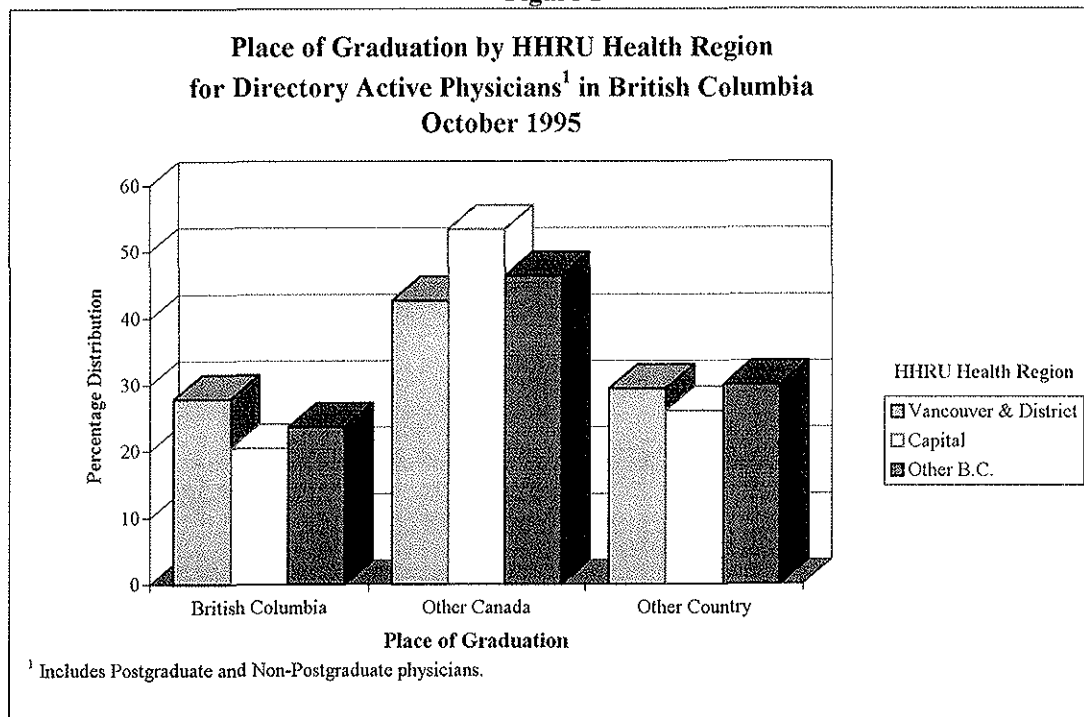
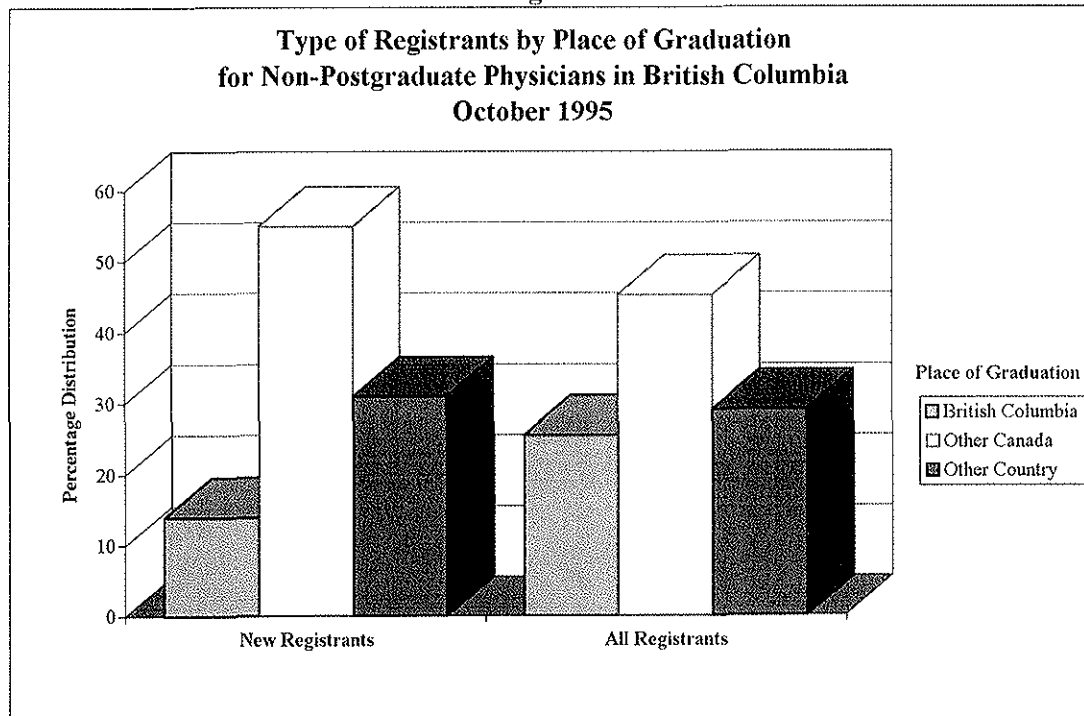


Figure 2



**Table 1**  
**Non-Postgraduate Physicians in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**October 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>3,145</b>	<b>71.03</b>	<b>634</b>	<b>73.13</b>	<b>1,679</b>	<b>69.75</b>	<b>5,458</b>	<b>70.86</b>
Newfoundland	46	1.04	8	0.92	29	1.20	83	1.08
Nova Scotia	109	2.46	26	3.00	57	2.37	192	2.49
Quebec	248	5.60	38	4.38	72	2.99	358	4.65
Ontario	686	15.49	179	20.65	348	14.46	1,213	15.75
Manitoba	215	4.86	46	5.31	107	4.45	368	4.78
Saskatchewan	150	3.39	27	3.11	140	5.82	317	4.12
Alberta	455	10.28	144	16.61	360	14.96	959	12.45
British Columbia	1,236	27.91	166	19.15	566	23.51	1,968	25.55
<b>Non-Canadian Subtotal</b>	<b>1,283</b>	<b>28.97</b>	<b>233</b>	<b>26.87</b>	<b>728</b>	<b>30.25</b>	<b>2,244</b>	<b>29.14</b>
<b>North &amp; Central America Subtotal</b>	<b>81</b>	<b>1.83</b>	<b>10</b>	<b>1.15</b>	<b>37</b>	<b>1.54</b>	<b>128</b>	<b>1.66</b>
Cuba	1	0.02	0	0.00	0	0.00	1	0.01
Dominican Republic	0	0.00	1	0.12	0	0.00	1	0.01
Guatemala	1	0.02	0	0.00	0	0.00	1	0.01
Jamaica	12	0.27	1	0.12	4	0.17	17	0.22
Mexico	3	0.07	0	0.00	4	0.17	7	0.09
United States of America	64	1.45	8	0.92	29	1.20	101	1.31
<b>South America Subtotal</b>	<b>16</b>	<b>0.36</b>	<b>3</b>	<b>0.35</b>	<b>2</b>	<b>0.08</b>	<b>21</b>	<b>0.27</b>
Argentina	5	0.11	0	0.00	0	0.00	5	0.06
Bolivia	0	0.00	1	0.12	0	0.00	1	0.01
Brazil	2	0.05	0	0.00	0	0.00	2	0.03
Chile	4	0.09	1	0.12	0	0.00	5	0.06
Colombia	4	0.09	0	0.00	1	0.04	5	0.06
Paraguay	0	0.00	0	0.00	1	0.04	1	0.01
Peru	1	0.02	0	0.00	0	0.00	1	0.01
Uruguay	0	0.00	1	0.12	0	0.00	1	0.01
<b>Europe Subtotal</b>	<b>688</b>	<b>15.54</b>	<b>169</b>	<b>19.49</b>	<b>412</b>	<b>17.12</b>	<b>1,269</b>	<b>16.48</b>
Austria	5	0.11	0	0.00	2	0.08	7	0.09
Belgium	3	0.07	0	0.00	1	0.04	4	0.05
Czechoslovakia <sup>1</sup>	22	0.50	2	0.23	4	0.17	28	0.36
Denmark	0	0.00	0	0.00	2	0.08	2	0.03
Finland	1	0.02	0	0.00	0	0.00	1	0.01
France	5	0.11	0	0.00	1	0.04	6	0.08
Germany	18	0.41	2	0.23	13	0.54	33	0.43
Greece	4	0.09	0	0.00	0	0.00	4	0.05
Hungary	7	0.16	1	0.12	4	0.17	12	0.16
Iceland	1	0.02	0	0.00	0	0.00	1	0.01
Irish Republic (Eire)	92	2.08	14	1.61	57	2.37	163	2.12
Italy	6	0.14	1	0.12	0	0.00	7	0.09
Latvia	1	0.02	0	0.00	0	0.00	1	0.01
Malta	1	0.02	0	0.00	2	0.08	3	0.04
Netherlands	10	0.23	1	0.12	6	0.25	17	0.22
Poland	24	0.54	2	0.23	2	0.08	28	0.36
Romania	0	0.00	0	0.00	2	0.08	2	0.03
Russia	4	0.09	0	0.00	0	0.00	4	0.05
Spain	4	0.09	2	0.23	1	0.04	7	0.09

*...continued*

**Table 1(continued)**  
**Non-Postgraduate Physicians in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**October 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Sweden	3	0.07	0	0.00	1	0.04	4	0.05
Switzerland	6	0.14	0	0.00	0	0.00	6	0.08
Ukraine	0	0.00	1	0.12	0	0.00	1	0.01
United Kingdom	463	10.46	143	16.49	312	12.96	918	11.92
Yugoslavia <sup>1</sup>	8	0.18	0	0.00	2	0.08	10	0.13
<b>Asia Subtotal</b>	<b>259</b>	<b>5.85</b>	<b>19</b>	<b>2.19</b>	<b>56</b>	<b>2.33</b>	<b>334</b>	<b>4.34</b>
Bangladesh	1	0.02	0	0.00	0	0.00	1	0.01
China	9	0.20	2	0.23	1	0.04	12	0.16
Hong Kong	60	1.36	2	0.23	2	0.08	64	0.83
India	72	1.63	8	0.92	32	1.33	112	1.45
Indonesia	1	0.02	0	0.00	0	0.00	1	0.01
Iran	9	0.20	2	0.23	2	0.08	13	0.17
Iraq	1	0.02	0	0.00	1	0.04	2	0.03
Israel	4	0.09	0	0.00	0	0.00	4	0.05
Japan	4	0.09	0	0.00	0	0.00	4	0.05
Lebanon	2	0.05	0	0.00	1	0.04	3	0.04
Malaysia	3	0.07	0	0.00	0	0.00	3	0.04
Myanmar	2	0.05	1	0.12	0	0.00	3	0.04
Pakistan	10	0.23	1	0.12	1	0.04	12	0.16
Philippines	24	0.54	3	0.35	9	0.37	36	0.47
Singapore	7	0.16	0	0.00	0	0.00	7	0.09
South Korea	11	0.25	0	0.00	2	0.08	13	0.17
Sri Lanka	4	0.09	0	0.00	1	0.04	5	0.06
Syria	1	0.02	0	0.00	0	0.00	1	0.01
Taiwan	24	0.54	0	0.00	3	0.12	27	0.35
Turkey	3	0.07	0	0.00	1	0.04	4	0.05
Vietnam	7	0.16	0	0.00	0	0.00	7	0.09
<b>Africa Subtotal</b>	<b>172</b>	<b>3.88</b>	<b>24</b>	<b>2.77</b>	<b>192</b>	<b>7.98</b>	<b>388</b>	<b>5.04</b>
Egypt	9	0.20	1	0.12	5	0.21	15	0.19
Ghana	1	0.02	0	0.00	0	0.00	1	0.01
Kenya	0	0.00	0	0.00	2	0.08	2	0.03
Libya	2	0.05	0	0.00	1	0.04	3	0.04
Nigeria	3	0.07	0	0.00	2	0.08	5	0.06
South Africa	142	3.21	21	2.42	178	7.40	341	4.43
Uganda	9	0.20	0	0.00	3	0.12	12	0.16
Zambia	1	0.02	0	0.00	0	0.00	1	0.01
Zimbabwe	5	0.11	2	0.23	1	0.04	8	0.10
<b>Oceania Subtotal</b>	<b>67</b>	<b>1.51</b>	<b>8</b>	<b>0.92</b>	<b>29</b>	<b>1.20</b>	<b>104</b>	<b>1.35</b>
Australia	34	0.77	5	0.58	16	0.66	55	0.71
Fiji	3	0.07	0	0.00	0	0.00	3	0.04
New Zealand	30	0.68	3	0.35	13	0.54	46	0.60
<b>TOTAL</b>	<b>4,428</b>	<b>100.00</b>	<b>867</b>	<b>100.00</b>	<b>2,407</b>	<b>100.00</b>	<b>7,702</b>	<b>100.00</b>

<sup>1</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Postgraduate Physicians in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**October 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>446</b>	<b>67.37</b>	<b>29</b>	<b>96.67</b>	<b>22</b>	<b>100.00</b>	<b>497</b>	<b>69.61</b>
Newfoundland	8	1.21	0	0.00	1	4.55	9	1.26
Nova Scotia	16	2.42	1	3.33	0	0.00	17	2.38
Quebec	30	4.53	1	3.33	1	4.55	32	4.48
Ontario	102	15.41	3	10.00	8	36.36	113	15.83
Manitoba	17	2.57	0	0.00	2	9.09	19	2.66
Saskatchewan	17	2.57	1	3.33	0	0.00	18	2.52
Alberta	71	10.73	5	16.67	1	4.55	77	10.78
British Columbia	185	27.95	18	60.00	9	40.91	212	29.69
<b>Non-Canadian Subtotal</b>	<b>216</b>	<b>32.63</b>	<b>1</b>	<b>3.33</b>	<b>0</b>	<b>0.00</b>	<b>217</b>	<b>30.39</b>
<b>North &amp; Central America Subtotal</b>	<b>17</b>	<b>2.57</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>17</b>	<b>2.38</b>
Jamaica	2	0.30	0	0.00	0	0.00	2	0.28
Mexico	1	0.15	0	0.00	0	0.00	1	0.14
United States of America	14	2.11	0	0.00	0	0.00	14	1.96
<b>South America Subtotal</b>	<b>2</b>	<b>0.30</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.28</b>
Argentina	1	0.15	0	0.00	0	0.00	1	0.14
Brazil	1	0.15	0	0.00	0	0.00	1	0.14
<b>Europe Subtotal</b>	<b>71</b>	<b>10.73</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>71</b>	<b>9.94</b>
Austria	2	0.30	0	0.00	0	0.00	2	0.28
Czechoslovakia <sup>1</sup>	2	0.30	0	0.00	0	0.00	2	0.28
France	1	0.15	0	0.00	0	0.00	1	0.14
Germany	2	0.30	0	0.00	0	0.00	2	0.28
Irish Republic (Eire)	10	1.51	0	0.00	0	0.00	10	1.40
Italy	1	0.15	0	0.00	0	0.00	1	0.14
Netherlands	1	0.15	0	0.00	0	0.00	1	0.14
Poland	11	1.66	0	0.00	0	0.00	11	1.54
Romania	1	0.15	0	0.00	0	0.00	1	0.14
Russia	3	0.45	0	0.00	0	0.00	3	0.42
Spain	2	0.30	0	0.00	0	0.00	2	0.28
Sweden	1	0.15	0	0.00	0	0.00	1	0.14
United Kingdom	32	4.83	0	0.00	0	0.00	32	4.48
Yugoslavia <sup>1</sup>	2	0.30	0	0.00	0	0.00	2	0.28
<b>Asia Subtotal</b>	<b>95</b>	<b>14.35</b>	<b>1</b>	<b>3.33</b>	<b>0</b>	<b>0.00</b>	<b>96</b>	<b>13.45</b>
China	5	0.76	0	0.00	0	0.00	5	0.70
Hong Kong	5	0.76	0	0.00	0	0.00	5	0.70
India	7	1.06	1	3.33	0	0.00	8	1.12
Iran	3	0.45	0	0.00	0	0.00	3	0.42
Iraq	1	0.15	0	0.00	0	0.00	1	0.14
Israel	2	0.30	0	0.00	0	0.00	2	0.28

*...continued*

**Table 2(continued)**  
**Postgraduate Physicians in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**October 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Japan	5	0.76	0	0.00	0	0.00	5	0.70
Kuwait	5	0.76	0	0.00	0	0.00	5	0.70
Lebanon	1	0.15	0	0.00	0	0.00	1	0.14
Pakistan	1	0.15	0	0.00	0	0.00	1	0.14
Saudi Arabia	44	6.65	0	0.00	0	0.00	44	6.16
South Korea	4	0.60	0	0.00	0	0.00	4	0.56
Sri Lanka	1	0.15	0	0.00	0	0.00	1	0.14
Syria	1	0.15	0	0.00	0	0.00	1	0.14
Taiwan	3	0.45	0	0.00	0	0.00	3	0.42
Thailand	3	0.45	0	0.00	0	0.00	3	0.42
Turkey	1	0.15	0	0.00	0	0.00	1	0.14
United Arab Emirates	3	0.45	0	0.00	0	0.00	3	0.42
<b>Africa Subtotal</b>	<b>22</b>	<b>3.32</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>22</b>	<b>3.08</b>
Egypt	1	0.15	0	0.00	0	0.00	1	0.14
Libya	2	0.30	0	0.00	0	0.00	2	0.28
Nigeria	1	0.15	0	0.00	0	0.00	1	0.14
South Africa	16	2.42	0	0.00	0	0.00	16	2.24
Tanzania	1	0.15	0	0.00	0	0.00	1	0.14
Zimbabwe	1	0.15	0	0.00	0	0.00	1	0.14
<b>Oceania Subtotal</b>	<b>9</b>	<b>1.36</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>9</b>	<b>1.26</b>
Australia	7	1.06	0	0.00	0	0.00	7	0.98
New Zealand	2	0.30	0	0.00	0	0.00	2	0.28
<b>TOTAL</b>	<b>662</b>	<b>100.00</b>	<b>30</b>	<b>100.00</b>	<b>22</b>	<b>100.00</b>	<b>714</b>	<b>100.00</b>

<sup>1</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 3**  
**Non-Postgraduate Physicians in British Columbia**  
**New Registrants<sup>1</sup>**  
**by Place of Graduation by HHRU Health Region**  
**October 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>109</b>	<b>73.65</b>	<b>18</b>	<b>64.29</b>	<b>100</b>	<b>65.36</b>	<b>227</b>	<b>69.00</b>
Newfoundland	5	3.38	1	3.57	4	2.61	10	3.04
Nova Scotia	6	4.05	0	0.00	1	0.65	7	2.13
Quebec	9	6.08	0	0.00	4	2.61	13	3.95
Ontario	32	21.62	7	25.00	26	16.99	65	19.76
Manitoba	3	2.03	1	3.57	7	4.58	11	3.34
Saskatchewan	7	4.73	1	3.57	13	8.50	21	6.38
Alberta	20	13.51	6	21.43	28	18.30	54	16.41
British Columbia	27	18.24	2	7.14	17	11.11	46	13.98
<b>Non-Canadian Subtotal</b>	<b>39</b>	<b>26.35</b>	<b>10</b>	<b>35.71</b>	<b>53</b>	<b>34.64</b>	<b>102</b>	<b>31.00</b>
<b>North &amp; Central America Subtotal</b>	<b>2</b>	<b>1.35</b>	<b>1</b>	<b>3.57</b>	<b>1</b>	<b>0.65</b>	<b>4</b>	<b>1.22</b>
Dominican Republic	0	0.00	1	3.57	0	0.00	1	0.30
Jamaica	1	0.68	0	0.00	1	0.65	2	0.61
United States of America	1	0.68	0	0.00	0	0.00	1	0.30
<b>South America Subtotal</b>	<b>1</b>	<b>0.68</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.30</b>
Colombia	1	0.68	0	0.00	0	0.00	1	0.30
<b>Europe Subtotal</b>	<b>14</b>	<b>9.46</b>	<b>5</b>	<b>17.86</b>	<b>13</b>	<b>8.50</b>	<b>32</b>	<b>9.73</b>
Czechoslovakia <sup>2</sup>	1	0.68	0	0.00	0	0.00	1	0.30
Germany	2	1.35	0	0.00	2	1.31	4	1.22
Hungary	0	0.00	0	0.00	1	0.65	1	0.30
Irish Republic (Eire)	1	0.68	3	10.71	3	1.96	7	2.13
Poland	1	0.68	0	0.00	0	0.00	1	0.30
United Kingdom	9	6.08	2	7.14	6	3.92	17	5.17
Yugoslavia <sup>2</sup>	0	0.00	0	0.00	1	0.65	1	0.30
<b>Asia Subtotal</b>	<b>15</b>	<b>10.14</b>	<b>1</b>	<b>3.57</b>	<b>4</b>	<b>2.61</b>	<b>20</b>	<b>6.08</b>
China	1	0.68	0	0.00	0	0.00	1	0.30
Hong Kong	2	1.35	0	0.00	0	0.00	2	0.61
India	7	4.73	1	3.57	3	1.96	11	3.34
Lebanon	1	0.68	0	0.00	0	0.00	1	0.30
Pakistan	1	0.68	0	0.00	0	0.00	1	0.30
Philippines	1	0.68	0	0.00	1	0.65	2	0.61
Sri Lanka	1	0.68	0	0.00	0	0.00	1	0.30
Taiwan	1	0.68	0	0.00	0	0.00	1	0.30
<b>Africa Subtotal</b>	<b>7</b>	<b>4.73</b>	<b>3</b>	<b>10.71</b>	<b>32</b>	<b>20.92</b>	<b>42</b>	<b>12.77</b>
Egypt	1	0.68	1	3.57	2	1.31	4	1.22
South Africa	6	4.05	0	0.00	30	19.61	36	10.94
Zimbabwe	0	0.00	2	7.14	0	0.00	2	0.61
<b>Oceania Subtotal</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>1.96</b>	<b>3</b>	<b>0.91</b>
Australia	0	0.00	0	0.00	2	1.31	2	0.61
New Zealand	0	0.00	0	0.00	1	0.65	1	0.30
<b>TOTAL</b>	<b>148</b>	<b>100.00</b>	<b>28</b>	<b>100.00</b>	<b>153</b>	<b>100.00</b>	<b>329</b>	<b>100.00</b>

<sup>1</sup> Physicians who reported B.C. addresses and were non-postgraduate in October 1995 and whose date of initial registration was after September 1993.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.



**Table 4**  
**Postgraduate Physicians in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation														TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 East Kootenay	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
2 West Kootenay - Boundary	0	0.00	1	100.00	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
4 North Okanagan	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
5 South Okanagan - Similkameen	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
6 Thompson Valley	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00	0	0.00	1	100.00
7 Upper Fraser Valley	8	66.67	0	0.00	2	16.67	2	16.67	0	0.00	12	100.00	0	0.00	12	100.00
9 South Fraser Valley	1	100.00	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	0	0.00	1	100.00
10 Simon Fraser	12	35.29	5	14.71	3	8.82	8	23.53	3	8.82	31	91.18	3	8.82	34	100.00
11 Coast Garibaldi	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
13 Central Vancouver Island	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00	0	0.00	1	100.00
14 North Island/Mid Coast	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
15 Cariboo	0	0.00	0	0.00	0	0.00	0	0.00	1	100.00	1	100.00	0	0.00	1	100.00
16 North West	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
17 Peace River - Liard	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
18 Northern Interior	1	16.67	0	0.00	0	0.00	5	83.33	0	0.00	6	100.00	0	0.00	6	100.00
20 Vancouver	169	27.13	65	10.43	31	4.98	94	15.09	51	8.19	410	65.81	213	34.19	623	100.00
30 Burnaby	1	50.00	1	50.00	0	0.00	0	0.00	0	0.00	2	100.00	0	0.00	2	100.00
40 North Shore	2	100.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00	0	0.00	2	100.00
50 Richmond	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
60 Capital Health	18	60.00	5	16.67	1	3.33	3	10.00	2	6.67	29	96.67	1	3.33	30	100.00
TOTAL	212	29.69	77	10.78	37	5.18	113	15.83	58	8.12	497	69.61	217	30.39	714	100.00

**Table 5**  
**Mean Years since Graduation for Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation														TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
2 West Kootenay - Boundary	0	*	1	*	0	*	0	*	0	*	1	*	0	*	1	*
4 North Okanagan	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
5 South Okanagan - Similkameen	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
6 Thompson Valley	0	*	0	*	0	*	1	*	0	*	1	*	0	*	1	*
7 Upper Fraser Valley	8	0.50	0	*	2	*	2	*	0	*	12	0.50	0	*	12	0.50
9 South Fraser Valley	1	*	0	*	0	*	0	*	0	*	1	*	0	*	1	*
10 Simon Fraser	12	2.00	5	1.60	3	0.00	8	1.00	2	*	30	1.33	3	11.33	33	2.24
11 Coast Garibaldi	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
13 Central Vancouver Island	0	*	0	*	0	*	0	*	1	*	1	*	0	*	1	*
14 North Island/Mid Coast	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
15 Cariboo	0	*	0	*	0	*	0	*	1	*	1	*	0	*	1	*
16 North West	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
17 Peace River - Liard	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
18 Northern Interior	1	*	0	*	0	*	4	0.00	0	*	5	0.00	0	*	5	0.00
20 Vancouver	169	2.73	65	3.52	31	3.13	94	3.02	51	4.25	410	3.14	212	9.25	622	5.22
30 Burnaby	1	*	1	*	0	*	0	*	0	*	2	*	0	*	2	*
40 North Shore	2	*	0	*	0	*	0	*	0	*	2	*	0	*	2	*
50 Richmond	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
60 Capital Health	18	0.33	5	1.00	1	*	3	0.67	2	*	29	0.97	1	*	30	1.50
TOTAL	212	2.40	77	3.23	37	2.65	112	2.65	57	4.21	495	2.81	216	9.31	711	4.79

<sup>1</sup> Excludes 3 physicians with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 6**  
**Mean Age of Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
2 West Kootenay - Boundary	0	*	1	*	0	*	0	*	0	*	1	*	0	*	1	*
4 North Okanagan	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
5 South Okanagan - Similkameen	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
6 Thompson Valley	0	*	0	*	0	*	1	*	0	*	1	*	0	*	1	*
7 Upper Fraser Valley	8	29.50	0	*	2	*	2	*	0	*	12	29.08	0	*	12	29.08
9 South Fraser Valley	1	*	0	*	0	*	0	*	0	*	1	*	0	*	1	*
10 Simon Fraser	12	30.00	5	28.20	3	26.33	8	26.75	3	31.00	31	28.61	3	35.67	34	29.24
11 Coast Garibaldi	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
13 Central Vancouver Island	0	*	0	*	0	*	0	*	1	*	1	*	0	*	1	*
14 North Island/Mid Coast	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
15 Cariboo	0	*	0	*	0	*	0	*	1	*	1	*	0	*	1	*
16 North West	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
17 Peace River - Liard	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
18 Northern Interior	1	*	0	*	0	*	4	27.75	0	*	5	28.40	0	*	5	28.40
20 Vancouver	169	30.59	65	29.77	31	29.13	94	29.61	51	29.88	410	30.04	212	34.12	622	31.43
30 Burnaby	1	*	1	*	0	*	0	*	0	*	2	*	0	*	2	*
40 North Shore	2	*	0	*	0	*	0	*	0	*	2	*	0	*	2	*
50 Richmond	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
60 Capital Health	18	28.83	5	29.80	1	*	3	25.33	2	*	29	29.34	1	*	30	29.73
TOTAL	212	30.40	77	29.65	37	28.70	112	29.21	58	30.26	496	29.87	216	34.17	712	31.18

<sup>1</sup> Excludes 2 physicians with missing or invalid age.

\* Indicates that the base for the mean is less than 3.

**Table 7**  
**Non-Postgraduate Generalists in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	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	%
1 East Kootenay	12	13.48	23	25.84	15	16.85	14	15.73	3	3.37	67	75.28	22	24.72	0	0.00	89	100.00
2 West Kootenay - Boundary	25	24.27	17	16.50	6	5.83	22	21.36	5	4.85	75	72.82	28	27.18	0	0.00	103	100.00
4 North Okanagan	40	33.61	18	15.13	19	15.97	17	14.29	6	5.04	100	84.03	19	15.97	0	0.00	119	100.00
5 South Okanagan - Similkameen	52	25.00	43	20.67	28	13.46	32	15.38	11	5.29	166	79.81	42	20.19	0	0.00	208	100.00
6 Thompson Valley	36	29.27	23	18.70	6	4.88	20	16.26	9	7.32	94	76.42	29	23.58	0	0.00	123	100.00
7 Upper Fraser Valley	63	33.16	16	8.42	19	10.00	23	12.11	11	5.79	132	69.47	58	30.53	0	0.00	190	100.00
9 South Fraser Valley	139	32.03	45	10.37	45	10.37	62	14.29	37	8.53	328	75.58	106	24.42	0	0.00	434	100.00
10 Simon Fraser	95	34.30	35	12.64	20	7.22	34	12.27	32	11.55	216	77.98	61	22.02	0	0.00	277	100.00
11 Coast Garibaldi	26	31.71	10	12.20	6	7.32	14	17.07	8	9.76	64	78.05	18	21.95	0	0.00	82	100.00
13 Central Vancouver Island	78	32.50	38	15.83	19	7.92	25	10.42	8	3.33	168	70.00	72	30.00	0	0.00	240	100.00
14 North Island/Mid Coast	42	33.87	14	11.29	11	8.87	15	12.10	10	8.06	92	74.19	32	25.81	0	0.00	124	100.00
15 Cariboo	21	31.82	6	9.09	6	9.09	7	10.61	3	4.55	43	65.15	23	34.85	0	0.00	66	100.00
16 North West	23	22.77	13	12.87	6	5.94	21	20.79	9	8.91	72	71.29	29	28.71	0	0.00	101	100.00
17 Peace River - Liard	11	21.57	5	9.80	0	0.00	4	7.84	1	1.96	21	41.18	30	58.82	0	0.00	51	100.00
18 Northern Interior	24	20.17	14	11.76	9	7.56	8	6.72	8	6.72	63	52.94	56	47.06	0	0.00	119	100.00
20 Vancouver	349	34.97	102	10.22	68	6.81	174	17.43	84	8.42	777	77.86	221	22.14	0	0.00	998	100.00
30 Burnaby	62	40.26	20	12.99	13	8.44	15	9.74	10	6.49	120	77.92	34	22.08	0	0.00	154	100.00
40 North Shore	87	41.43	28	13.33	9	4.29	34	16.19	14	6.67	172	81.90	38	18.10	0	0.00	210	100.00
50 Richmond	66	38.60	17	9.94	20	11.70	13	7.60	11	6.43	127	74.27	44	25.73	0	0.00	171	100.00
60 Capital Health	130	26.48	77	15.68	32	6.52	105	21.38	41	8.35	385	78.41	106	21.59	0	0.00	491	100.00
TOTAL	1,381	31.75	564	12.97	357	8.21	659	15.15	321	7.38	3,282	75.45	1,068	24.55	0	0.00	4,350	100.00

**Table 8**  
**Mean Years since Graduation for Non-Postgraduate Generalists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years		
1 East Kootenay	12	10.83	23	15.70	15	23.40	14	18.86	3	21.33	67	17.46	22	22.18	0	*	89	18.63
2 West Kootenay - Boundary	25	15.08	17	15.59	6	20.17	22	18.41	5	13.00	75	16.44	28	22.18	0	*	103	18.00
4 North Okanagan	40	14.85	18	20.44	19	22.37	17	18.53	6	22.83	100	18.39	19	22.21	0	*	119	19.00
5 South Okanagan - Similkameen	52	16.25	43	15.58	28	22.43	32	18.63	11	17.09	166	17.63	42	22.00	0	*	208	18.51
6 Thompson Valley	36	13.75	23	15.70	6	22.00	20	19.20	9	23.67	94	16.86	29	22.55	0	*	123	18.20
7 Upper Fraser Valley	63	15.62	16	18.88	19	21.68	23	19.91	11	21.73	132	18.14	58	25.41	0	*	190	20.36
9 South Fraser Valley	139	14.05	45	13.29	45	19.44	62	18.53	37	16.62	328	15.82	106	23.62	0	*	434	17.73
10 Simon Fraser	95	14.80	35	12.60	20	19.15	34	18.68	32	14.78	216	15.45	61	25.03	0	*	277	17.56
11 Coast Garibaldi	26	15.12	10	11.40	6	19.17	14	20.36	8	12.25	64	15.70	18	22.89	0	*	82	17.28
13 Central Vancouver Island	78	13.15	38	17.92	19	16.42	25	19.08	8	18.50	168	15.74	72	25.49	0	*	240	18.66
14 North Island/Mid Coast	42	14.76	14	18.79	11	12.09	15	14.40	10	20.80	92	15.65	32	20.16	0	*	124	16.81
15 Cariboo	21	10.43	6	13.67	6	8.50	7	22.43	3	11.33	43	12.63	23	19.22	0	*	66	14.92
16 North West	23	13.74	13	9.54	6	11.50	21	16.38	9	12.89	72	13.46	29	19.52	0	*	101	15.20
17 Peace River - Liard	11	15.09	5	10.60	0	*	4	15.50	1	*	21	15.19	30	14.00	0	*	51	14.49
18 Northern Interior	24	16.33	14	15.21	9	21.67	8	18.50	8	16.88	63	17.19	55	18.15	0	*	118	17.64
20 Vancouver	349	14.47	102	12.78	68	18.85	174	15.28	84	15.88	777	14.97	221	25.06	0	*	998	17.20
30 Burnaby	62	13.74	20	17.40	13	18.08	15	15.33	10	15.80	120	15.19	34	23.76	0	*	154	17.08
40 North Shore	87	17.17	28	16.25	8	19.25	34	19.88	14	18.86	171	17.80	38	24.87	0	*	209	19.08
50 Richmond	66	12.53	17	16.12	20	22.85	13	17.54	11	17.00	127	15.54	44	23.27	0	*	171	17.53
60 Capital Health	130	14.69	77	17.65	31	16.03	105	17.64	41	18.24	384	16.58	105	29.29	0	*	489	19.31
TOTAL	1,381	14.52	564	15.31	355	19.23	659	17.51	321	17.02	3,280	16.01	1,066	23.75	0	*	4,346	17.91

<sup>1</sup> Excludes 4 physicians with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 9**  
**Mean Age of Non-Postgraduate Generalists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	12	37.92	23	42.17	15	50.07	14	45.29	3	47.00	67	44.04	21	46.90	0	*
2 West Kootenay - Boundary	25	42.24	17	42.12	6	45.00	22	44.82	5	42.20	75	43.19	28	47.79	0	*
4 North Okanagan	40	41.53	18	47.17	19	49.00	17	45.18	6	51.00	100	45.15	19	46.89	0	*
5 South Okanagan - Similkameen	52	43.23	43	41.26	28	48.82	32	45.41	11	42.91	166	44.06	42	47.05	0	*
6 Thompson Valley	36	40.67	23	40.61	6	46.33	20	44.85	9	50.22	94	42.82	29	47.62	0	*
7 Upper Fraser Valley	63	42.71	16	45.88	18	49.00	23	47.57	11	48.82	131	45.33	58	50.40	0	*
9 South Fraser Valley	139	40.95	45	39.53	45	45.38	62	45.47	37	43.46	328	42.50	106	49.25	0	*
10 Simon Fraser	95	42.31	34	39.29	20	44.95	34	45.44	32	40.91	215	42.36	61	50.16	0	*
11 Coast Garibaldi	26	42.08	10	40.60	6	44.83	14	46.07	8	40.25	64	42.75	18	48.89	0	*
13 Central Vancouver Island	78	40.60	38	45.63	19	43.47	25	47.08	8	45.13	168	43.24	72	50.50	0	*
14 North Island/Mid Coast	42	42.64	14	44.50	11	39.27	15	43.47	10	48.20	92	43.26	32	44.53	0	*
15 Cariboo	21	37.43	6	40.50	6	37.00	7	48.57	3	36.67	43	39.56	23	43.22	0	*
16 North West	23	41.61	13	35.92	6	39.00	21	44.38	9	38.44	72	40.78	29	45.41	0	*
17 Peace River - Liard	11	41.00	5	36.20	0	*	4	42.50	1	*	21	41.29	30	39.23	0	*
18 Northern Interior	24	42.75	14	40.86	8	43.38	8	45.50	8	42.88	62	42.77	56	44.30	0	*
20 Vancouver	348	41.41	102	39.75	68	45.47	174	41.73	84	42.10	776	41.69	220	50.24	0	*
30 Burnaby	61	40.84	20	43.15	13	43.92	15	42.33	10	42.80	119	41.92	34	48.97	0	*
40 North Shore	87	44.23	28	42.54	9	45.22	34	46.18	14	44.86	172	44.44	38	50.47	0	*
50 Richmond	66	39.29	17	42.24	20	49.45	13	43.31	11	44.73	127	42.17	44	48.77	0	*
60 Capital Health	130	42.28	77	44.56	30	43.13	105	44.30	41	44.98	383	43.65	105	54.74	0	*
<b>TOTAL</b>	<b>1,379</b>	<b>41.62</b>	<b>563</b>	<b>41.88</b>	<b>353</b>	<b>45.62</b>	<b>659</b>	<b>44.24</b>	<b>321</b>	<b>43.59</b>	<b>3,275</b>	<b>42.82</b>	<b>1,065</b>	<b>49.03</b>	<b>0</b>	<b>*</b>

<sup>1</sup> Excludes 10 physicians with missing or invalid age.

\* Indicates that the base for the mean is less than 3.

**Table 10**  
**Non-Postgraduate Specialists in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation														TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country			
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 East Kootenay	1	2.94	11	32.35	3	8.82	7	20.59	3	8.82	25	73.53	9	26.47	34	100.00
2 West Kootenay - Boundary	6	17.65	3	8.82	0	0.00	6	17.65	0	0.00	15	44.12	19	55.88	34	100.00
4 North Okanagan	7	11.29	13	20.97	7	11.29	3	4.84	8	12.90	38	61.29	24	38.71	62	100.00
5 South Okanagan - Similkameen	29	18.59	29	18.59	36	23.08	21	13.46	10	6.41	125	80.13	31	19.87	156	100.00
6 Thompson Valley	9	11.25	15	18.75	11	13.75	14	17.50	5	6.25	54	67.50	26	32.50	80	100.00
7 Upper Fraser Valley	20	20.83	7	7.29	13	13.54	13	13.54	6	6.25	59	61.46	37	38.54	96	100.00
9 South Fraser Valley	32	14.61	19	8.68	19	8.68	31	14.16	17	7.76	118	53.88	101	46.12	219	100.00
10 Simon Fraser	41	16.33	22	8.76	18	7.17	39	15.54	35	13.94	155	61.75	96	38.25	251	100.00
11 Coast Garibaldi	1	4.76	1	4.76	3	14.29	5	23.81	5	23.81	15	71.43	6	28.57	21	100.00
13 Central Vancouver Island	20	14.49	20	14.49	12	8.70	27	19.57	15	10.87	94	68.12	44	31.88	138	100.00
14 North Island/Mid Coast	5	10.00	7	14.00	9	18.00	6	12.00	5	10.00	32	64.00	18	36.00	50	100.00
15 Cariboo	2	12.50	2	12.50	0	0.00	3	18.75	1	6.25	8	50.00	8	50.00	16	100.00
16 North West	1	3.45	3	10.34	0	0.00	10	34.48	3	10.34	17	58.62	12	41.38	29	100.00
17 Peace River - Liard	0	0.00	3	21.43	0	0.00	0	0.00	1	7.14	4	28.57	10	71.43	14	100.00
18 Northern Interior	12	19.35	6	9.68	3	4.84	11	17.74	4	6.45	36	58.06	26	41.94	62	100.00
20 Vancouver	286	20.88	129	9.42	125	9.12	230	16.79	136	9.93	906	66.13	464	33.87	1,370	100.00
30 Burnaby	19	22.62	7	8.33	7	8.33	17	20.24	8	9.52	58	69.05	26	30.95	84	100.00
40 North Shore	34	21.94	20	12.90	6	3.87	28	18.06	12	7.74	100	64.52	55	35.48	155	100.00
50 Richmond	26	24.76	11	10.48	15	14.29	9	8.57	7	6.67	68	64.76	37	35.24	105	100.00
60 Capital Health	36	9.57	67	17.82	41	10.90	74	19.68	31	8.24	249	66.22	127	33.78	376	100.00
TOTAL	587	17.51	395	11.78	328	9.79	554	16.53	312	9.31	2,176	64.92	1,176	35.08	3,352	100.00

**Table 11**  
**Mean Years since Graduation for Non-Postgraduate Specialists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	1	*	11	20.36	3	27.33	7	23.71	3	14.33	25	21.64	9	26.33	34	22.88
2 West Kootenay - Boundary	6	22.33	3	40.33	0	*	6	15.83	0	*	15	23.33	19	22.21	34	22.71
4 North Okanagan	7	15.29	13	19.85	7	25.43	3	28.67	8	27.13	38	22.26	24	27.75	62	24.39
5 South Okanagan - Similkameen	29	21.07	29	19.17	36	24.72	21	20.90	10	31.70	125	22.50	31	31.65	156	24.32
6 Thompson Valley	9	17.33	15	20.07	11	19.64	13	26.85	5	28.60	53	21.98	26	27.15	79	23.68
7 Upper Fraser Valley	20	18.30	7	25.14	13	22.08	13	22.69	6	28.83	59	21.98	37	25.89	96	23.49
9 South Fraser Valley	32	20.41	19	17.47	19	23.26	31	19.87	17	21.12	118	20.36	101	29.26	219	24.46
10 Simon Fraser	41	23.05	21	24.76	18	24.44	39	22.18	35	21.09	154	22.78	96	25.40	250	23.78
11 Coast Garibaldi	1	*	1	*	3	39.67	5	23.00	5	31.40	15	29.13	6	32.00	21	29.95
13 Central Vancouver Island	20	19.00	20	19.05	12	25.00	27	27.19	15	28.47	94	23.64	44	29.11	138	25.38
14 North Island/Mid Coast	5	22.20	7	18.14	9	13.89	6	19.67	5	19.00	32	18.00	18	30.44	50	22.48
15 Cariboo	2	*	2	*	0	*	3	33.00	1	*	8	26.88	8	25.63	16	26.25
16 North West	1	*	3	20.33	0	*	10	26.50	3	21.00	17	24.35	12	19.75	29	22.45
17 Peace River - Liard	0	*	3	25.67	0	*	0	*	1	*	4	29.00	10	28.70	14	28.79
18 Northern Interior	12	20.92	6	12.83	3	26.00	11	19.91	4	16.00	36	19.14	26	24.42	62	21.35
20 Vancouver	286	20.24	128	20.63	125	24.33	230	22.34	135	24.34	904	22.01	463	26.71	1,367	23.60
30 Burnaby	19	22.05	7	21.57	7	18.86	17	20.53	8	23.50	58	21.36	26	27.73	84	23.33
40 North Shore	34	21.44	20	22.90	6	38.67	28	20.18	12	27.67	100	23.16	55	32.02	155	26.30
50 Richmond	26	18.00	11	16.55	15	25.27	9	19.78	7	25.29	68	20.35	37	27.35	105	22.82
60 Capital Health	36	22.00	64	24.58	41	28.90	74	25.15	30	28.17	245	25.53	127	31.76	372	27.66
TOTAL	587	20.45	390	21.29	328	24.77	553	22.70	310	24.80	2,168	22.45	1,175	27.78	3,343	24.33

<sup>1</sup> Excludes 9 physicians with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.



**Table 12**  
**Mean Age of Non-Postgraduate Specialists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**October 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	1	*	11	44.27	3	52.33	7	50.00	3	39.67	25	46.56	9	50.78	34	47.68
2 West Kootenay - Boundary	6	48.00	3	65.33	0	*	6	41.67	0	*	15	48.93	19	47.37	34	48.06
4 North Okanagan	7	42.71	13	44.85	7	51.86	3	54.33	8	51.50	38	47.89	24	51.63	62	49.34
5 South Okanagan - Similkameen	29	47.69	29	44.69	36	50.08	21	45.62	9	57.11	124	48.02	31	56.19	155	49.65
6 Thompson Valley	9	43.78	15	44.73	11	45.36	14	55.57	5	54.40	54	48.41	26	51.62	80	49.45
7 Upper Fraser Valley	20	44.65	7	51.29	13	47.62	13	48.08	6	54.33	59	47.83	37	50.24	96	48.76
9 South Fraser Valley	32	46.31	19	44.42	19	48.42	31	45.84	17	46.35	118	46.23	101	54.36	219	49.98
10 Simon Fraser	41	49.41	21	49.90	18	48.67	39	47.79	35	46.63	154	48.35	96	50.38	250	49.13
11 Coast Garibaldi	1	*	1	*	3	65.33	5	50.20	5	56.80	15	55.07	6	59.33	21	56.29
13 Central Vancouver Island	20	44.85	20	46.10	12	50.75	27	53.59	15	55.60	94	50.10	44	53.98	138	51.33
14 North Island/Mid Coast	5	49.20	7	46.14	9	40.56	6	44.50	5	44.40	32	44.47	18	54.89	50	48.22
15 Cariboo	2	*	2	*	0	*	3	57.67	1	*	8	52.50	8	50.88	16	51.69
16 North West	1	*	3	47.33	0	*	10	54.10	3	46.67	17	51.41	12	44.25	29	48.45
17 Peace River - Liard	0	*	3	50.33	0	*	0	*	1	*	4	54.25	10	53.30	14	53.57
18 Northern Interior	12	46.00	6	38.33	3	50.67	11	45.27	4	40.75	36	44.31	25	49.04	61	46.25
20 Vancouver	286	46.33	128	46.23	124	49.36	230	47.80	135	50.01	903	47.65	462	51.53	1,365	48.97
30 Burnaby	19	47.79	7	47.29	7	44.29	17	45.06	8	49.88	58	46.79	26	52.69	84	48.62
40 North Shore	34	47.68	20	49.70	6	62.83	28	46.46	12	53.25	100	49.32	55	56.13	155	51.74
50 Richmond	26	44.31	11	41.45	15	50.60	9	44.22	7	51.29	68	45.94	37	52.70	105	48.32
60 Capital Health	36	47.83	64	49.42	41	54.66	74	51.07	30	53.80	245	51.10	127	56.16	372	52.83
TOTAL	587	46.58	390	46.86	327	50.05	554	48.42	309	50.44	2,167	48.17	1,173	52.54	3,340	49.71

<sup>1</sup> Excludes 12 physicians with missing or invalid age.

\* Indicates that the base for the mean is less than 3.

### III Nursing Services

## Licensed Practical Nurses

**Definition:** Licensed Practical Nurses (LPNs) register with the British Columbia Council of Licensed Practical Nurses (BCCLPN).<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Registration does not necessarily imply employment in the field. The data in the tables are presented based on employment address when LPNs report employment in nursing and employment address is available. In 1995, employment address was available for 84% of LPNs employed in nursing. Home address is used for the remainder, as well as for LPNs not employed in nursing.

**Date of Record:** September 1995.

**Source of data:** The British Columbia Council of Licensed Practical Nurses (BCCLPN).

### Discussion:

The number of LPNs with unknown place of graduation should be kept in mind when using all of these tables: 168 (2.97%) of the total group are unknown in terms of place of graduation, as is one (0.22%) of the new registrants. Figure 1 and Table 1 present employment location for LPNs by place of graduation. Table 2 presents this same information for new registrants (registrants to the BCCLPN between September 1993 and September 1995), and Figure 2 compares new registrants by place of graduation with the total registrants. The figures show that the majority of LPNs are graduates of B.C. programs, though in the new registrant group there are fewer LPNs coming from B.C. compared to the total registration group, and more coming from other provinces in Canada.

Tables 1 and 2 show specific province or country of graduation for LPNs. Table 1 indicates 5.78% of registered members of the BCCLPN are graduates of foreign programs, with the United Kingdom being the largest single contributor (2.70%). The new registrants (Table 2), compared to the total group, show a smaller proportion of B.C. graduates (58.19% vs. 65.56%), as was suggested by Figure 2. Corresponding to this is a higher proportion of new registrants from other Canadian provinces, specifically Ontario (7.37% of the total group vs. 14.44% of the new registrants), and Alberta (7.72% of the total group vs. 10.34% of the new registrants).

There is a far greater representation of foreign LPN graduates in Vancouver and District (11.35%) than in either the Capital (3.23%) or Other B.C. (2.40%). Graduates from Hong Kong, specifically, work exclusively in Vancouver and District (26), and are absent in the rest of province. Similarly, graduates from the United Kingdom are concentrated in Vancouver and District (5.32%), compared to 1.53% in Capital and 1.10% in Other B.C. Graduates from the Philippines are also concentrated in Vancouver and District (2.01%), compared to 0.51% in Capital and 0.27% in Other B.C. Among the Canadian graduates, those trained in Nova Scotia make up 2.72% of LPNs in the Capital, compared to just over 1% elsewhere, while Quebec graduates account for 1.20% of Vancouver and District LPNs, 0.85% in the Capital and 0.40% in Other B.C. Alberta graduates have their strongest representation in Other B.C. (9.28%), but make up only 7.30% of LPNs in Capital and 5.60% of LPNs in Vancouver and District.

Table 3 disaggregates LPN numbers by health region and presents them based on broader place of graduation categories; graduates from the northern territories and provinces east of Ontario are aggregated into the category "Other Canada", and graduates from other countries are aggregated into the category "Other Country". The range in proportion of B.C. graduates in different health regions is from a high of 81.91% in Central Vancouver Island to a low of 48.15% in Peace River-Liard. The Peace River-Liard health region has the highest percentage of Alberta graduates at 25.93%, perhaps in part because

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<sup>1</sup> The *Health Professions Act*, 1990 mandates registration with the BCCLPN in order to practise as an LPN in B.C.

this region shares a long border with Alberta in the northeast section of B.C. Graduates of other countries have far higher representation in Vancouver (15.38%), Burnaby (11.48%), Richmond (10.94%) and Simon Fraser (10.64%) than they do in the other health regions.

Table 4 uses the same format as Table 3, this time presenting information on the average number of years since graduation. The "Total" figures across the bottom indicate a large difference in B.C. vs. non-B.C. graduates in terms of years since graduation, with the B.C. graduates having a significantly lower mean than graduates from other places; B.C.-trained LPNs graduated on average 15.85 years ago, and Ontario graduates showed the next lowest mean at 20.18 years since graduation. Those trained in other countries graduated, on average, 24.29 years ago. Among the B.C. graduates there is a wide variation in mean years since graduation, from a high in Peace River-Liard of 21.04 to lows in Burnaby and Richmond of 11.82 and 11.64, respectively. The Cariboo health region, in general, with the exception of graduates listed in "Other Canada", shows higher means for each place of graduation than the provincial average. This may indicate a low turnover of LPNs in this region, a longer career life for LPNs there, or perhaps it may be that a few LPNs with long tenures are weighting the average upwards.

Table 5 presents information on the average number of years since first registration with the BCCLPN. This table is again presented by health region and place of graduation, and indicates smaller differences in the total figures than seen in Table 4. Ontario graduates show the lowest mean years since first registration, at 10.69, while B.C. graduates post the highest at 14.69. Looking at this table in conjunction with Table 4 suggests that LPNs who graduate elsewhere move to B.C., on average, only after working some time as an LPN outside B.C. The difference between mean years since graduation and mean years for first registration is above 8.5 years for all place of graduation categories except B.C. graduates, who show a difference of only 1.16 years. How this translates in terms of actual work experience is unclear, as it is feasible that not all time from graduation elsewhere to registration in B.C. is spent working as an LPN.

A final look at the differences for LPNs in terms of place of graduation is Table 6, which shows average age of LPNs by health region and place of graduation. As might be expected after examining Tables 4 and 5, LPNs graduating in B.C. have a younger mean age than graduates from other areas. Looking at the provincial totals, it appears that Burnaby has a LPN population that is relatively young compared to the rest of the province (40.77 years), while Peace River-Liard has the "oldest" LPN group (45.01 years), though neither is too far away from the provincial mean of 43.38 years.

Figure 1

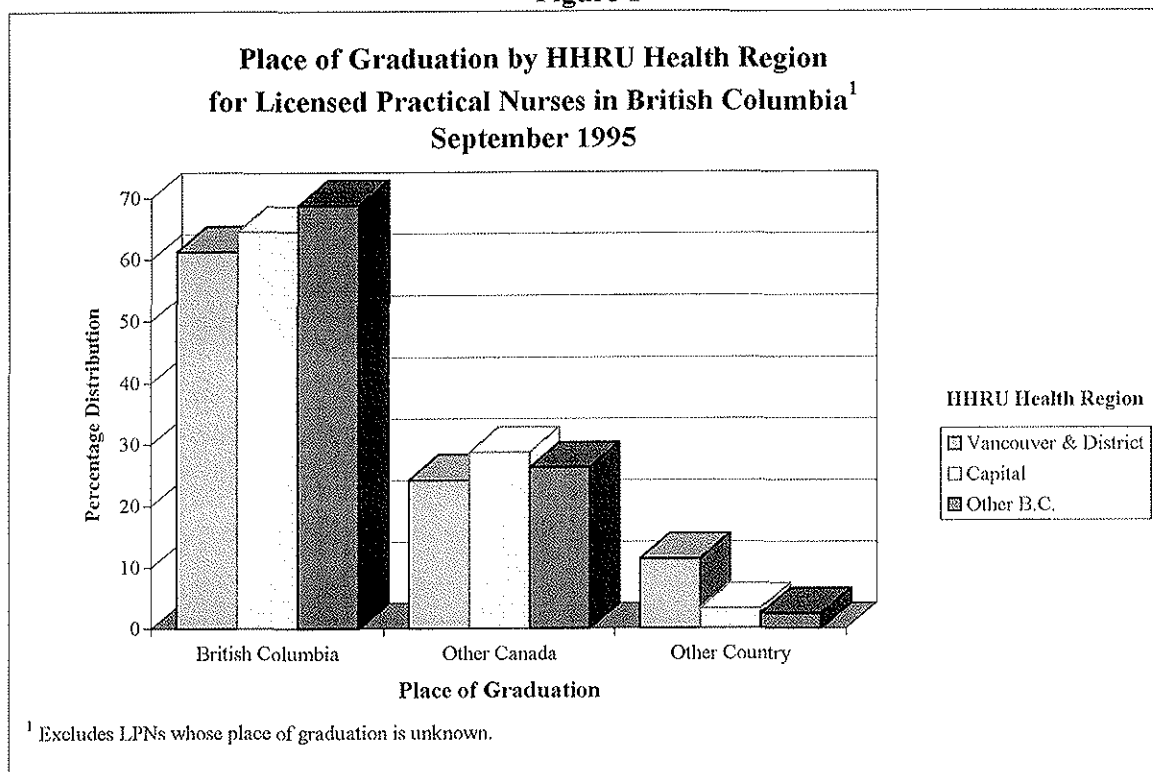
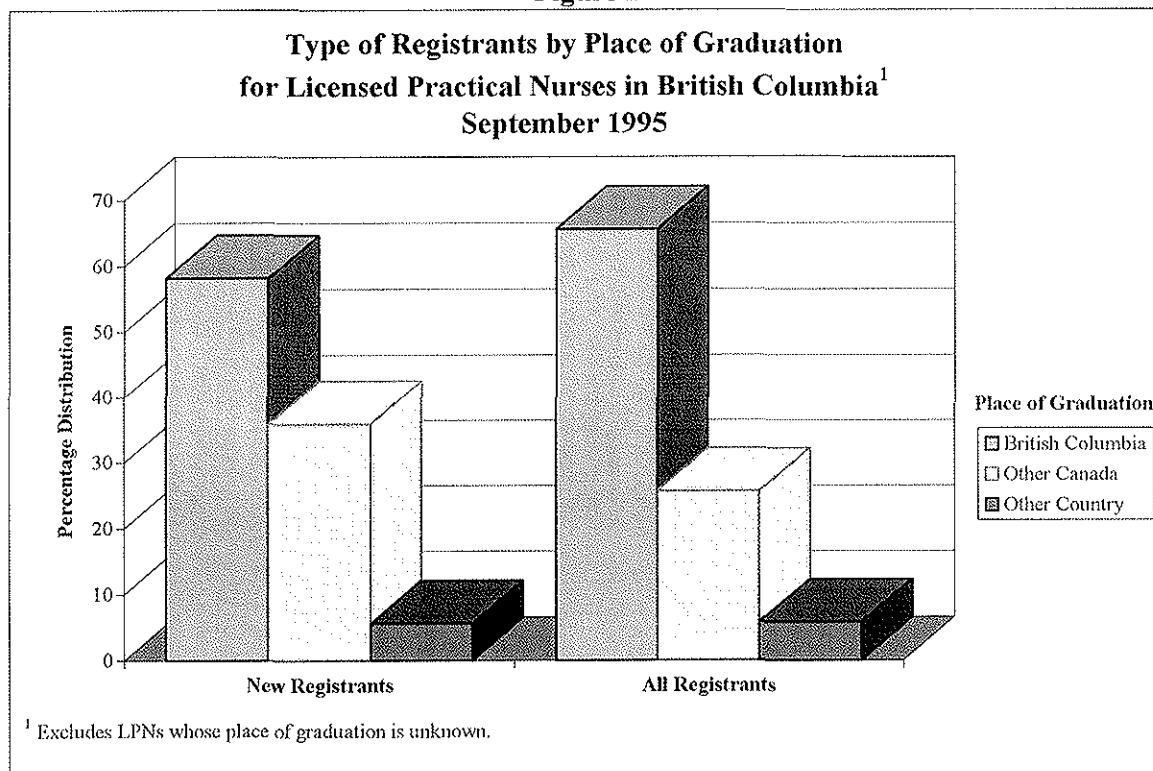


Figure 2



**Table 1**  
**Licensed Practical Nurses in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**September 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,785</b>	<b>85.49</b>	<b>549</b>	<b>93.21</b>	<b>2,843</b>	<b>94.89</b>	<b>5,177</b>	<b>91.26</b>
Newfoundland	11	0.53	2	0.34	12	0.40	25	0.44
Prince Edward Island	3	0.14	4	0.68	4	0.13	11	0.19
Nova Scotia	21	1.01	16	2.72	43	1.44	80	1.41
New Brunswick	9	0.43	0	0.00	12	0.40	21	0.37
Quebec	25	1.20	5	0.85	12	0.40	42	0.74
Ontario	171	8.19	61	10.36	186	6.21	418	7.37
Manitoba	97	4.65	20	3.40	118	3.94	235	4.14
Saskatchewan	44	2.11	14	2.38	100	3.34	158	2.79
Alberta	117	5.60	43	7.30	278	9.28	438	7.72
British Columbia	1,280	61.30	380	64.52	2,059	68.72	3,719	65.56
Yukon Territory	5	0.24	2	0.34	16	0.53	23	0.41
Northwest Territories	0	0.00	0	0.00	1	0.03	1	0.02
Canada (province unstated)	2	0.10	2	0.34	2	0.07	6	0.11
<b>Non-Canadian Subtotal</b>	<b>237</b>	<b>11.35</b>	<b>19</b>	<b>3.23</b>	<b>72</b>	<b>2.40</b>	<b>328</b>	<b>5.78</b>
<b>North &amp; Central America Subtotal</b>	<b>13</b>	<b>0.62</b>	<b>3</b>	<b>0.51</b>	<b>14</b>	<b>0.47</b>	<b>30</b>	<b>0.53</b>
United States of America	12	0.57	3	0.51	14	0.47	29	0.51
N. & Central America (country unstated)	1	0.05	0	0.00	0	0.00	1	0.02
<b>South America Subtotal</b>	<b>1</b>	<b>0.05</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.03</b>	<b>2</b>	<b>0.04</b>
Guyana	1	0.05	0	0.00	0	0.00	1	0.02
Paraguay	0	0.00	0	0.00	1	0.03	1	0.02
<b>Europe Subtotal</b>	<b>127</b>	<b>6.08</b>	<b>12</b>	<b>2.04</b>	<b>41</b>	<b>1.37</b>	<b>180</b>	<b>3.17</b>
Czechoslovakia <sup>1</sup>	7	0.34	1	0.17	0	0.00	8	0.14
Denmark	1	0.05	1	0.17	1	0.03	3	0.05
Finland	0	0.00	0	0.00	2	0.07	2	0.04
France	1	0.05	0	0.00	0	0.00	1	0.02
Germany	4	0.19	0	0.00	3	0.10	7	0.12
Netherlands	0	0.00	0	0.00	1	0.03	1	0.02
Switzerland	1	0.05	1	0.17	1	0.03	3	0.05
United Kingdom	111	5.32	9	1.53	33	1.10	153	2.70
Yugoslavia <sup>1</sup>	2	0.10	0	0.00	0	0.00	2	0.04
<b>Asia Subtotal</b>	<b>77</b>	<b>3.69</b>	<b>3</b>	<b>0.51</b>	<b>9</b>	<b>0.30</b>	<b>89</b>	<b>1.57</b>
Hong Kong	26	1.25	0	0.00	0	0.00	26	0.46
India	0	0.00	0	0.00	1	0.03	1	0.02
Iran	1	0.05	0	0.00	0	0.00	1	0.02
Israel	1	0.05	0	0.00	0	0.00	1	0.02
Japan	1	0.05	0	0.00	0	0.00	1	0.02
Malaysia	3	0.14	0	0.00	0	0.00	3	0.05
Philippines	42	2.01	3	0.51	8	0.27	53	0.93
Singapore	2	0.10	0	0.00	0	0.00	2	0.04
Taiwan	1	0.05	0	0.00	0	0.00	1	0.02
<b>Africa Subtotal</b>	<b>3</b>	<b>0.14</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>0.05</b>
Mauritius	1	0.05	0	0.00	0	0.00	1	0.02
South Africa	1	0.05	0	0.00	0	0.00	1	0.02
Zimbabwe	1	0.05	0	0.00	0	0.00	1	0.02

...continued

**Table 1(continued)**  
**Licensed Practical Nurses in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**September 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Oceania Subtotal</b>	<b>16</b>	<b>0.77</b>	<b>1</b>	<b>0.17</b>	<b>7</b>	<b>0.23</b>	<b>24</b>	<b>0.42</b>
Australia	5	0.24	0	0.00	4	0.13	9	0.16
Fiji	6	0.29	1	0.17	0	0.00	7	0.12
New Zealand	4	0.19	0	0.00	3	0.10	7	0.12
Tonga	1	0.05	0	0.00	0	0.00	1	0.02
<b>Unknown</b>	<b>66</b>	<b>3.16</b>	<b>21</b>	<b>3.57</b>	<b>81</b>	<b>2.70</b>	<b>168</b>	<b>2.96</b>
<b>TOTAL</b>	<b>2,088</b>	<b>100.00</b>	<b>589</b>	<b>100.00</b>	<b>2,996</b>	<b>100.00</b>	<b>5,673</b>	<b>100.00</b>

<sup>1</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Licensed Practical Nurses in British Columbia**  
**New Registrants<sup>1</sup>**  
**by Place of Graduation by HHRU Health Region**  
**September 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>163</b>	<b>90.06</b>	<b>41</b>	<b>95.35</b>	<b>233</b>	<b>97.08</b>	<b>437</b>	<b>94.18</b>
Newfoundland	2	1.10	0	0.00	1	0.42	3	0.65
Nova Scotia	3	1.66	3	6.98	11	4.58	17	3.66
New Brunswick	0	0.00	0	0.00	3	1.25	3	0.65
Quebec	2	1.10	0	0.00	0	0.00	2	0.43
Ontario	26	14.36	13	30.23	28	11.67	67	14.44
Manitoba	3	1.66	1	2.33	7	2.92	11	2.37
Saskatchewan	3	1.66	2	4.65	8	3.33	13	2.80
Alberta	12	6.63	6	13.95	30	12.50	48	10.34
British Columbia	112	61.88	16	37.21	142	59.17	270	58.19
Yukon Territory	0	0.00	0	0.00	3	1.25	3	0.65
<b>Non-Canadian Subtotal</b>	<b>18</b>	<b>9.94</b>	<b>2</b>	<b>4.65</b>	<b>6</b>	<b>2.50</b>	<b>26</b>	<b>5.60</b>
<b>North &amp; Central America Subtotal</b>	<b>2</b>	<b>1.10</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.42</b>	<b>3</b>	<b>0.65</b>
United States of America	2	1.10	0	0.00	1	0.42	3	0.65
<b>Europe Subtotal</b>	<b>4</b>	<b>2.21</b>	<b>2</b>	<b>4.65</b>	<b>4</b>	<b>1.67</b>	<b>10</b>	<b>2.16</b>
Germany	0	0.00	0	0.00	1	0.42	1	0.22
Netherlands	0	0.00	0	0.00	1	0.42	1	0.22
Switzerland	0	0.00	0	0.00	1	0.42	1	0.22
United Kingdom	4	2.21	2	4.65	1	0.42	7	1.51
<b>Asia Subtotal</b>	<b>11</b>	<b>6.08</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.42</b>	<b>12</b>	<b>2.59</b>
Hong Kong	1	0.55	0	0.00	0	0.00	1	0.22
India	0	0.00	0	0.00	1	0.42	1	0.22
Iran	1	0.55	0	0.00	0	0.00	1	0.22
Malaysia	1	0.55	0	0.00	0	0.00	1	0.22
Philippines	8	4.42	0	0.00	0	0.00	8	1.72
<b>Oceania Subtotal</b>	<b>1</b>	<b>0.55</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.22</b>
Fiji	1	0.55	0	0.00	0	0.00	1	0.22
<b>Unknown</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.42</b>	<b>1</b>	<b>0.22</b>
<b>TOTAL</b>	<b>181</b>	<b>100.00</b>	<b>43</b>	<b>100.00</b>	<b>240</b>	<b>100.00</b>	<b>464</b>	<b>100.00</b>

<sup>1</sup>LPNs who reported B.C. addresses and were licensed in September 1995 and whose initial registration was after September 1993.



**Table 3**  
**Licensed Practical Nurses in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	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	%
1 East Kootenay	129	72.47	24	13.48	11	6.18	7	3.93	3	1.69	174	97.75	1	0.56	3	1.69	178	100.00
2 West Kootenay - Boundary	198	81.15	21	8.61	8	3.28	4	1.64	3	1.23	234	95.90	6	2.46	4	1.64	244	100.00
4 North Okanagan	136	59.39	33	14.41	23	10.04	19	8.30	5	2.18	216	94.32	4	1.75	9	3.93	229	100.00
5 South Okanagan - Similkameen	367	68.98	54	10.15	50	9.40	28	5.26	15	2.82	514	96.62	8	1.50	10	1.88	532	100.00
6 Thompson Valley	152	61.54	28	11.34	27	10.93	14	5.67	9	3.64	230	93.12	7	2.83	10	4.05	247	100.00
7 Upper Fraser Valley	146	57.03	26	10.16	20	7.81	23	8.98	14	5.47	229	89.45	11	4.30	16	6.25	256	100.00
9 South Fraser Valley	274	59.83	47	10.26	34	7.42	47	10.26	20	4.37	422	92.14	26	5.68	10	2.18	458	100.00
10 Simon Fraser	210	58.82	17	4.76	31	8.68	38	10.64	17	4.76	313	87.68	38	10.64	6	1.68	357	100.00
11 Coast Garibaldi	84	77.78	4	3.70	5	4.63	5	4.63	7	6.48	105	97.22	1	0.93	2	1.85	108	100.00
13 Central Vancouver Island	394	81.91	25	5.20	22	4.57	17	3.53	11	2.29	469	97.51	9	1.87	3	0.62	481	100.00
14 North Island/Mid Coast	149	68.04	7	3.20	11	5.02	22	10.05	12	5.48	201	91.78	10	4.57	8	3.65	219	100.00
15 Cariboo	67	65.05	9	8.74	8	7.77	12	11.65	3	2.91	99	96.12	1	0.97	3	2.91	103	100.00
16 North West	81	60.45	8	5.97	11	8.21	15	11.19	7	5.22	122	91.04	5	3.73	7	5.22	134	100.00
17 Peace River - Liard	52	48.15	28	25.93	7	6.48	8	7.41	7	6.48	102	94.44	3	2.78	3	2.78	108	100.00
18 Northern Interior	104	66.24	11	7.01	15	9.55	12	7.64	6	3.82	148	94.27	6	3.82	3	1.91	157	100.00
20 Vancouver	530	60.36	36	4.10	53	6.04	59	6.72	26	2.96	704	80.18	135	15.38	39	4.44	878	100.00
30 Burnaby	77	63.11	3	2.46	8	6.56	15	12.30	2	1.64	105	86.07	14	11.48	3	2.46	122	100.00
40 North Shore	106	73.10	7	4.83	8	5.52	5	3.45	5	3.45	131	90.34	10	6.90	4	2.76	145	100.00
50 Richmond	83	64.84	7	5.47	7	5.47	7	5.47	6	4.69	110	85.94	14	10.94	4	3.13	128	100.00
60 Capital Health	380	64.52	43	7.30	34	5.77	61	10.36	31	5.26	549	93.21	19	3.23	21	3.57	589	100.00
TOTAL	3,719	65.56	438	7.72	393	6.93	418	7.37	209	3.68	5,177	91.26	328	5.78	168	2.96	5,673	100.00

**Table 4**  
**Mean Years since Graduation for Licensed Practical Nurses<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	124	15.05	24	24.79	11	27.18	7	21.43	3	25.67	169	17.67	1	*	0	*	170	17.67
2 West Kootenay - Boundary	194	17.61	21	21.76	8	25.63	4	16.75	2	*	229	18.25	6	24.50	1	*	236	18.35
4 North Okanagan	127	18.43	32	20.97	21	26.48	17	22.71	5	25.80	202	20.21	3	20.00	1	*	206	20.22
5 South Okanagan - Similkameen	359	13.85	52	21.77	49	22.43	28	22.29	15	20.33	503	16.17	7	24.29	3	14.00	513	16.26
6 Thompson Valley	143	18.55	28	25.36	25	25.60	14	23.07	9	17.78	219	20.48	7	24.57	1	*	227	20.69
7 Upper Fraser Valley	143	17.13	23	24.52	19	19.42	22	17.73	13	20.08	220	18.33	10	17.50	4	19.75	234	18.32
9 South Fraser Valley	262	18.12	45	25.31	32	21.09	46	20.43	20	25.75	405	19.79	23	22.52	0	*	428	19.94
10 Simon Fraser	202	14.89	15	20.67	31	21.74	37	21.19	17	23.65	302	17.14	37	24.92	3	12.67	342	17.94
11 Coast Garibaldi	81	16.57	4	17.50	5	27.00	5	12.20	7	20.29	102	17.16	1	*	0	*	103	17.22
13 Central Vancouver Island	387	15.61	25	21.68	22	19.91	17	20.12	11	24.64	462	16.52	8	22.00	0	*	470	16.62
14 North Island/Mid Coast	145	16.03	7	20.00	11	22.91	22	20.45	12	18.33	197	17.19	9	19.89	3	22.33	209	17.38
15 Cariboo	65	20.83	9	28.00	8	26.63	12	23.83	3	16.33	97	22.21	1	*	1	*	99	22.45
16 North West	73	18.36	8	22.25	11	24.82	14	21.00	6	19.17	112	19.64	4	28.25	0	*	116	19.94
17 Peace River - Liard	50	21.04	28	23.68	6	20.17	8	16.13	7	19.86	99	21.25	2	*	0	*	101	21.37
18 Northern Interior	98	17.76	10	27.10	15	26.13	12	21.25	6	29.00	141	20.09	5	30.40	0	*	146	20.44
20 Vancouver	518	12.54	35	22.06	51	22.59	56	19.61	26	23.19	686	14.75	122	24.66	9	26.67	817	16.36
30 Burnaby	76	11.82	3	26.67	8	24.50	15	20.47	1	*	103	14.66	12	25.25	1	*	116	15.79
40 North Shore	105	15.77	7	20.00	8	27.13	5	17.20	5	14.40	130	16.70	10	28.90	1	*	141	17.73
50 Richmond	81	11.64	7	21.29	7	28.00	7	23.43	5	19.20	107	14.47	14	20.50	2	*	123	15.23
60 Capital Health	366	17.48	41	20.83	32	22.53	61	18.30	31	21.48	531	18.37	19	26.68	2	*	552	18.68
TOTAL	3,599	15.85	424	22.85	380	23.22	409	20.18	204	21.86	5,016	17.59	301	24.29	32	22.19	5,349	18.00

<sup>1</sup> Excludes 324 LPNs with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Licensed Practical Nurses<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	128	14.27	24	15.13	11	16.64	7	10.57	3	16.00	173	14.42	1	*	3	28.67	177	14.67
2 West Kootenay - Boundary	196	16.55	21	11.14	8	18.25	4	8.25	3	11.00	232	15.91	6	15.50	4	16.25	242	15.90
4 North Okanagan	136	16.91	32	15.66	22	18.23	19	13.89	5	11.80	214	16.47	4	12.75	9	9.89	227	16.15
5 South Okanagan - Similkameen	366	12.86	54	13.50	50	11.12	28	11.50	15	10.60	513	12.62	8	9.88	10	6.90	531	12.47
6 Thompson Valley	152	17.47	28	16.36	27	17.70	14	16.36	9	10.22	230	17.01	7	11.57	10	13.70	247	16.72
7 Upper Fraser Valley	146	15.96	26	14.50	19	13.26	23	8.52	14	9.50	228	14.42	11	9.73	15	12.47	254	14.10
9 South Fraser Valley	274	16.19	46	14.78	34	13.38	47	9.81	20	16.35	421	15.11	26	13.35	10	16.50	457	15.04
10 Simon Fraser	210	14.10	17	11.59	31	13.68	38	12.55	17	16.82	313	13.88	38	14.29	6	8.00	357	13.82
11 Coast Garibaldi	84	15.23	4	4.75	5	17.60	5	3.40	7	10.57	105	14.07	1	*	2	*	108	13.94
13 Central Vancouver Island	394	14.72	25	11.32	22	11.00	17	12.06	11	18.45	469	14.35	9	12.22	3	23.33	481	14.37
14 North Island/Mid Coast	148	15.01	7	11.57	11	15.27	22	11.05	12	9.25	200	14.12	10	13.40	8	9.63	218	13.92
15 Cariboo	67	18.33	9	15.89	8	16.38	12	15.50	3	5.00	99	17.20	1	*	3	12.67	103	16.95
16 North West	81	16.20	7	12.29	11	16.09	15	9.80	7	8.14	121	14.70	5	11.20	7	7.86	133	14.21
17 Peace River - Liard	52	19.54	28	15.07	7	13.43	8	8.63	7	14.71	102	16.71	3	11.67	3	28.33	108	16.89
18 Northern Interior	104	16.27	11	17.82	15	16.07	12	9.92	6	18.17	148	15.93	6	7.17	3	5.00	157	15.38
20 Vancouver	527	11.43	36	14.50	53	15.09	59	9.53	26	13.46	701	11.78	134	13.66	39	8.82	874	11.94
30 Burnaby	77	10.97	3	17.00	8	13.25	15	11.53	2	*	105	11.52	14	11.71	3	7.00	122	11.43
40 North Shore	106	14.85	6	17.17	8	19.25	5	13.40	5	9.20	130	14.95	10	11.70	4	8.75	144	14.56
50 Richmond	81	11.14	7	15.29	7	16.71	7	11.86	6	7.50	108	11.61	14	11.36	3	12.33	125	11.60
60 Capital Health	379	16.11	43	13.12	34	14.82	61	8.87	31	12.81	548	14.80	19	15.11	21	10.14	588	14.64
TOTAL	3,708	14.69	434	14.09	391	14.62	418	10.69	209	12.83	5,160	14.23	327	13.08	166	11.11	5,653	14.07

<sup>1</sup> Excludes 20 LPNs with missing or invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3.

**Table 6**  
**Mean Age of Licensed Practical Nurses<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**September 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	125	41.07	24	47.13	11	48.18	7	43.86	3	47.33	170	42.61	1	*	3	56.33	174	42.83
2 West Kootenay - Boundary	192	42.06	20	45.10	8	46.88	4	42.75	3	44.33	227	42.54	5	45.60	4	48.25	236	42.70
4 North Okanagan	131	43.10	33	43.42	22	46.95	19	46.58	5	48.80	210	44.00	4	51.50	9	52.78	223	44.49
5 South Okanagan - Similkameen	361	41.32	52	46.38	50	46.22	28	46.25	15	43.67	506	42.67	8	43.88	10	51.10	524	42.85
6 Thompson Valley	148	42.99	28	47.61	27	47.52	14	46.64	9	37.67	226	44.12	7	45.43	10	51.10	243	44.44
7 Upper Fraser Valley	143	41.87	26	47.23	20	45.60	22	41.95	13	43.38	224	42.92	11	42.36	16	46.38	251	43.12
9 South Fraser Valley	270	42.81	46	48.33	34	44.94	47	45.85	20	46.15	417	44.10	24	46.92	10	57.70	451	44.55
10 Simon Fraser	207	41.05	17	44.18	30	44.73	36	45.58	16	45.19	306	42.34	36	47.31	6	43.33	348	42.87
11 Coast Garibaldi	84	41.50	4	45.75	5	49.00	5	36.80	6	45.50	104	42.03	1	*	2	*	107	42.13
13 Central Vancouver Island	388	42.46	25	45.92	22	43.05	17	42.29	11	48.45	463	42.81	9	44.44	3	53.00	475	42.90
14 North Island/Mid Coast	145	41.43	7	46.86	11	46.82	22	43.82	12	46.50	197	42.50	10	43.70	8	44.25	215	42.62
15 Cariboo	67	43.76	8	46.25	8	48.63	12	46.25	3	40.33	98	44.56	1	*	3	51.67	102	44.90
16 North West	79	44.56	8	44.88	11	45.27	14	46.00	7	45.14	119	44.85	5	49.20	7	44.43	131	44.99
17 Peace River - Liard	52	43.75	28	46.07	7	43.57	8	43.25	7	47.14	102	44.57	2	*	3	56.67	107	45.01
18 Northern Interior	104	42.37	11	49.55	15	47.07	12	43.92	6	48.50	148	43.75	6	50.83	3	45.67	157	44.06
20 Vancouver	519	40.22	36	49.42	51	47.18	57	44.05	25	45.68	688	41.73	129	48.45	38	51.63	855	43.18
30 Burnaby	77	37.94	3	45.67	8	46.88	15	42.53	1	*	104	39.73	14	47.57	3	45.00	121	40.77
40 North Shore	102	41.49	7	42.86	7	48.29	5	38.60	5	43.20	126	41.90	10	50.50	4	49.75	140	42.74
50 Richmond	82	39.21	7	45.86	7	51.29	7	43.14	6	45.00	109	40.98	14	44.14	3	48.67	126	41.52
60 Capital Health	368	43.06	43	45.33	34	46.00	61	44.36	31	44.61	537	43.66	19	49.79	21	51.14	577	44.14
TOTAL	3,644	41.81	433	46.47	388	46.29	412	44.46	204	45.18	5,081	42.90	316	47.55	166	50.11	5,563	43.38

<sup>1</sup> Excludes 110 LPNs with missing or invalid age.

\* Indicates that the base for the mean is less than 3.

## Registered Nurses

**Definition:** Registered Nurses (RNs) register with the Registered Nurses Association of British Columbia (RNABC) with either "practising" or "non-practising" membership status.<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) RNs must retain a practising membership in the RNABC in order to work as registered nurses, but a practising membership does not necessarily imply employment in the field. 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 1995, employment address was available for 88% of practising RNs employed in nursing. Home address is used for the remainder, as well as for practising RNs who are not employed in nursing, and for RNs with non-practising membership status.

**Date of Record:** June 1995.

**Source of Data:** The Registered Nurses Association of British Columbia (RNABC).

### Discussion:

Figure 1 and Table 1 present employment location for RNs by place of graduation. Table 2 presents this same information for new registrants (registrants to the RNABC between June 1993 and June 1995), and Figure 2 compares new registrants by place of graduation with the total registration group. Figure 1 shows that a majority of RNs graduated in B.C., and that those who graduated outside Canada are more likely to locate in Vancouver and District than in Capital or Other B.C. Figure 2 shows that the new registrants and the total RNABC membership have about the same proportional representation of B.C., Other Canada and Other Country graduates. Tables 1 and 2 show fairly equal percentages of B.C., Other Canada and foreign graduates; B.C. graduates are 51.06% of the total group and 53.41% of the new registrants, Other Canada graduates are 33.54% of the total group and 33.10% of the new registrants, and foreign graduates are 15.36% of the total group and 13.49% of the new registrants. Distribution of graduates from the various provinces is also fairly equal in the total column, although Alberta graduates show a somewhat higher proportional representation among the new registrants (11.39% vs. 8.71%).

There are differences when looking at place of graduation by location in the province. Vancouver and District has the lowest percentage of B.C. graduates (49.71%) in the total group (compared to 52.20% in Other B.C. and 53.35% in Capital), but the highest percentage of B.C. graduates in the new registrant group, 56.05% compared to 51.84% in Other B.C. and 43.69% in Capital. Ontario graduates in the total group are more likely to locate in Capital (12.16%), than in Other B.C. (10.45%), or Vancouver and District (9.91%). The same is true for new registrants from Ontario (15.32% in Capital, 8.96% in Other B.C., 8.38% in Vancouver and District). Alberta graduates on the other hand, are more likely to locate in Other B.C. (11.94% of the total group and 17.28% of the new registrants) and in Capital (9.74% of the total group and 14.41% of the new registrants), than in Vancouver and District (6.22% of the total group and 6.92% of the new registrants).

Non-Canadian graduates also show greater variation when looking across areas of the province than seen in the provincial totals. Vancouver and District has the largest percentage of foreign-trained RNs in both the total and new registrant groups (20.89% and 19.39%). The majority of this difference appears to be due to the large proportion of Asian graduates in Vancouver and District (9.41% of the total group and 10.57% of the new registrants) compared to Capital (1.33% of the total group and 0.90% of the new registrants) or Other B.C. (1.19% of the total group and 0.86% of the new registrants). European-trained RNs are also more likely to locate in Vancouver and District (8.28% of the total group and 5.54% of the new registrants) compared to Capital (5.91% of the total group and 2.70% of the new registrants) or Other B.C. (5.06% of the total group and 2.81% of the new registrants).

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<sup>1</sup> The *Nurses (Registered) Act, 1979* mandates registration with the RNABC in order to practise as a nurse in B.C.

Table 3 presents RNs with non-practising registration status. The total proportions of B.C., Other Canada and foreign graduates in this table compared to Table 1 are fairly similar (48.06% vs. 51.06%, 33.75% vs. 33.54% and 18.04% vs. 15.36% respectively). The distributions across the province vary slightly more. In Capital for instance, Ontario graduates represent 14.20% of the non-practising group but 12.16% of the total group, while graduates from B.C. show an opposite trend (48.58% in Table 3 vs. 53.35% in Table 1). Other Canada graduates in Other B.C. are 35.58% of the RNs with non-practising status, compared to 38.54% of the total group, with the largest variations in Ontario (11.34% vs. 10.45%) and Manitoba (3.72% vs. 4.61%). B.C. graduates in Other B.C. are 50.54% of the RNs with non-practising status, compared to 52.20% of the total group. There are also some relatively large differences in the non-Canadian component of Other B.C., where U.S. graduates are 3.18% of the non-practising group but 1.62% of the total group, and U.K. graduates are 6.81% of non-practising and 4.22% of the total group. Separate tables on practising members of the RNABC, and practising RNs who reported employment in the field were also produced this year, but they are not included as the distributions were all within one percentage point of those seen in Table 1.

Table 4 takes the information presented in Table 1 and presents it by health region, aggregating the graduates from the provinces east of Ontario into the single category "Other Canada" and also aggregating the graduates from other countries into the single category "Other Country". The proportion of B.C. graduates in the total membership of the RNABC is 51.06%, but the range in the individual health regions is from less than 33.52% in Peace River-Liard to 65.25% in Thompson Valley. Alberta graduates have their highest representation in East Kootenay (25.25%) and Peace River-Liard (24.23%), but make up only 5.18% of RNs in Simon Fraser. Ontario graduates are 10.38% of the total RN population, and the largest proportion of Canadian but non-B.C. trained RNs. Ontario graduates are far more evenly distributed across health regions than are graduates from Alberta, making up a low of 7.09% of RNs in Northern Interior and a high of 14.24% in North West. Graduates from other countries are most likely to be found in Richmond (25.31% of the total), Burnaby (22.64%) and Vancouver (22.37%), and least likely to be found in Thompson Valley (4.90%).

Table 5 uses this same format, this time presenting mean years since graduation by health region and by place of graduation. B.C.-trained RNs graduated, on average, 15.73 years ago, compared to foreign graduates where the mean is 24.94 years. RNs in the North Shore health region show a mean years since graduation of 21.39, the highest of any health region. RNs in North Shore, in fact, show mean years since graduation higher than the provincial average for all places of graduation. This may suggest RNs in North Shore are slightly older and/or have more experience than their counterparts in other areas of the province, though experience can not be directly assumed from years since graduation.

Table 6 looks at mean years since first registration with the RNABC by health region and by place of graduation. B.C. graduates show the highest mean years since first registration, at 15.42 years. The lowest mean is found among Alberta graduates, where it is 13.54 years. This is a relatively tight distribution, as is the variation seen for the means across the health regions. The range across the health regions is from 12.41 years in Peace River-Liard to 17.21 years in North Shore. Only Alberta graduates in the Peace River-Liard region have a mean years since first registration with the RNABC that is less than 10 (8.98 years).

Table 7 illustrates mean age of RNs, again by health region and by place of graduation. B.C. graduates have the youngest mean age - 40.47 years - as might be expected after examining Table 5. Foreign graduates have the highest mean age at 47.36 years. The provincial mean indicates that the overall age of RNs in B.C. is 42.68 years, with a range in the health regions from 39.87 years in Peace River-Liard to 44.76 years in Central Vancouver Island and 44.53 years in North Shore. Similar to what was seen in Table 5, RNs in North Shore have a higher mean age than the provincial average for all places of graduation.

Figure 1

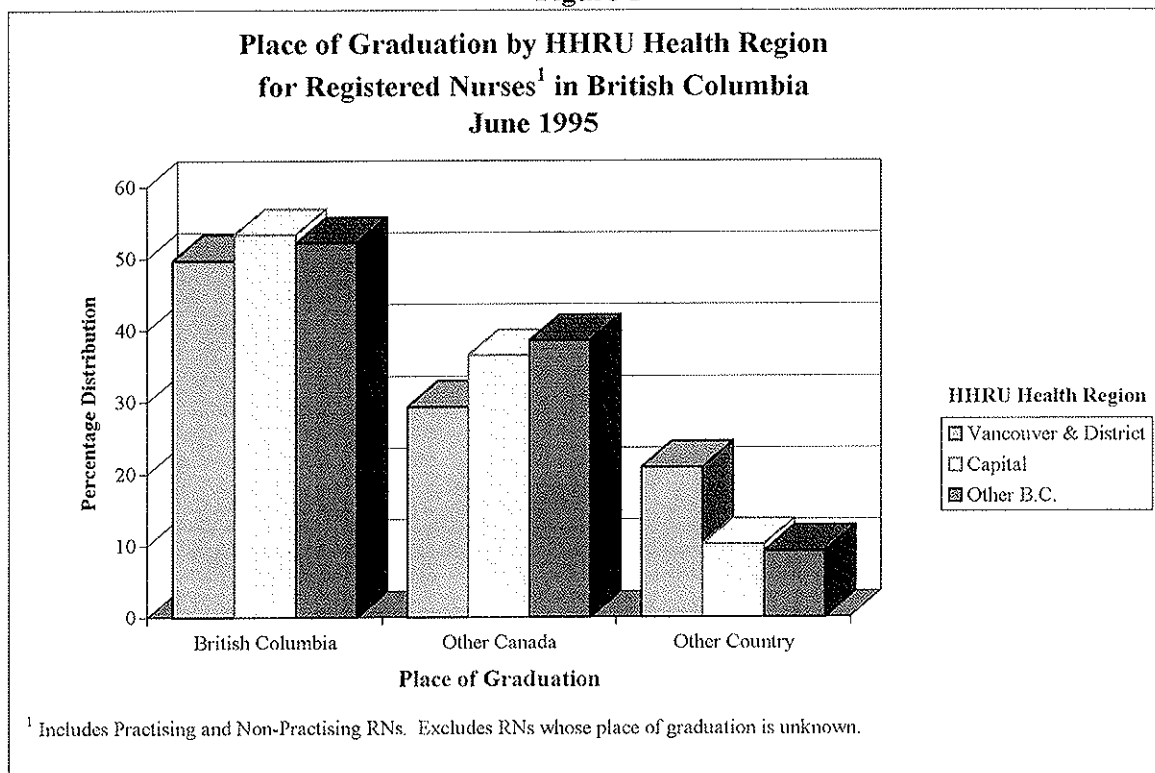
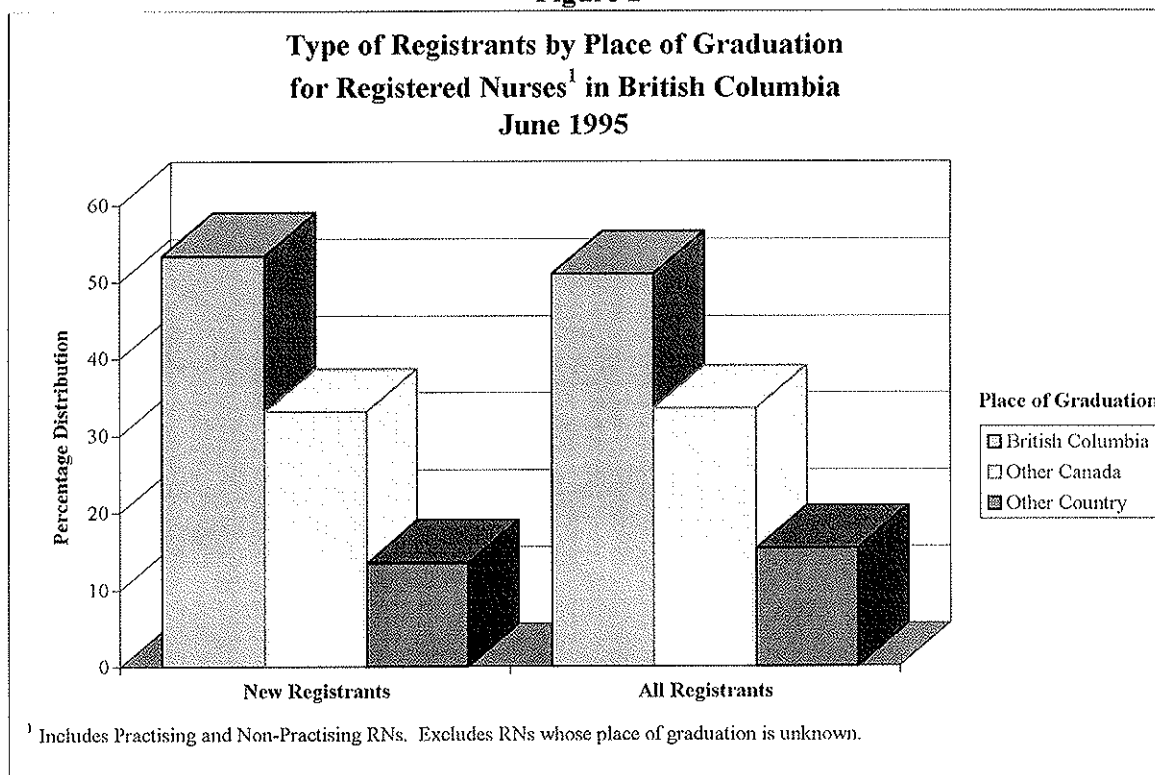


Figure 2



**Table 1**  
**Registered Nurses<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**June 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>12,637</b>	<b>79.06</b>	<b>3,451</b>	<b>89.85</b>	<b>10,096</b>	<b>90.74</b>	<b>26,184</b>	<b>84.60</b>
Newfoundland	135	0.84	27	0.70	95	0.85	257	0.83
Prince Edward Island	27	0.17	7	0.18	22	0.20	56	0.18
Nova Scotia	222	1.39	65	1.69	169	1.52	456	1.47
New Brunswick	133	0.83	27	0.70	89	0.80	249	0.80
Quebec	427	2.67	72	1.87	181	1.63	680	2.20
Ontario	1,584	9.91	467	12.16	1,163	10.45	3,214	10.38
Manitoba	660	4.13	190	4.95	513	4.61	1,363	4.40
Saskatchewan	508	3.18	173	4.50	728	6.54	1,409	4.55
Alberta	995	6.22	374	9.74	1,328	11.94	2,697	8.71
British Columbia	7,946	49.71	2,049	53.35	5,808	52.20	15,803	51.06
<b>Non-Canadian Subtotal</b>	<b>3,340</b>	<b>20.89</b>	<b>389</b>	<b>10.13</b>	<b>1,026</b>	<b>9.22</b>	<b>4,755</b>	<b>15.36</b>
<b>North &amp; Central America Subtotal</b>	<b>233</b>	<b>1.46</b>	<b>64</b>	<b>1.67</b>	<b>189</b>	<b>1.70</b>	<b>486</b>	<b>1.57</b>
Barbados	0	0.00	1	0.03	0	0.00	1	0.00
Belize	0	0.00	0	0.00	1	0.01	1	0.00
Bermuda	0	0.00	0	0.00	1	0.01	1	0.00
El Salvador	2	0.01	0	0.00	1	0.01	3	0.01
Jamaica	10	0.06	2	0.05	3	0.03	15	0.05
Mexico	1	0.01	0	0.00	0	0.00	1	0.00
St. Lucia	0	0.00	0	0.00	1	0.01	1	0.00
St. Vincent	1	0.01	0	0.00	0	0.00	1	0.00
Trinidad and Tobago	0	0.00	1	0.03	2	0.02	3	0.01
United States of America	219	1.37	60	1.56	180	1.62	459	1.48
<b>South America Subtotal</b>	<b>10</b>	<b>0.06</b>	<b>3</b>	<b>0.08</b>	<b>1</b>	<b>0.01</b>	<b>14</b>	<b>0.05</b>
Argentina	3	0.02	0	0.00	0	0.00	3	0.01
Chile	3	0.02	0	0.00	0	0.00	3	0.01
Guyana	2	0.01	1	0.03	1	0.01	4	0.01
Peru	1	0.01	2	0.05	0	0.00	3	0.01
Uruguay	1	0.01	0	0.00	0	0.00	1	0.00
<b>Europe Subtotal</b>	<b>1,323</b>	<b>8.28</b>	<b>227</b>	<b>5.91</b>	<b>563</b>	<b>5.06</b>	<b>2,113</b>	<b>6.83</b>
Austria	5	0.03	1	0.03	3	0.03	9	0.03
Belgium	1	0.01	0	0.00	0	0.00	1	0.00
Bulgaria	1	0.01	0	0.00	1	0.01	2	0.01
Czechoslovakia <sup>2</sup>	26	0.16	0	0.00	2	0.02	28	0.09
Denmark	14	0.09	1	0.03	9	0.08	24	0.08
Finland	7	0.04	0	0.00	1	0.01	8	0.03
France	3	0.02	0	0.00	3	0.03	6	0.02
Germany	30	0.19	2	0.05	21	0.19	53	0.17
Greece	2	0.01	0	0.00	0	0.00	2	0.01
Hungary	2	0.01	0	0.00	2	0.02	4	0.01
Irish Republic (Eire)	36	0.23	1	0.03	10	0.09	47	0.15
Netherlands	36	0.23	8	0.21	26	0.23	70	0.23
Norway	3	0.02	0	0.00	3	0.03	6	0.02
Poland	24	0.15	2	0.05	0	0.00	26	0.08
Portugal	3	0.02	0	0.00	1	0.01	4	0.01
Romania	5	0.03	0	0.00	1	0.01	6	0.02
Russia	5	0.03	0	0.00	0	0.00	5	0.02
Spain	3	0.02	0	0.00	1	0.01	4	0.01
Sweden	16	0.10	0	0.00	6	0.05	22	0.07
Switzerland	5	0.03	0	0.00	2	0.02	7	0.02
United Kingdom	1,092	6.83	212	5.52	470	4.22	1,774	5.73
Yugoslavia <sup>2</sup>	4	0.03	0	0.00	1	0.01	5	0.02



**Table 1(continued)**  
**Registered Nurses<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**June 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Asia Subtotal</b>	<b>1,504</b>	<b>9.41</b>	<b>51</b>	<b>1.33</b>	<b>132</b>	<b>1.19</b>	<b>1,687</b>	<b>5.45</b>
China	2	0.01	0	0.00	1	0.01	3	0.01
Hong Kong	456	2.85	5	0.13	9	0.08	470	1.52
India	56	0.35	3	0.08	17	0.15	76	0.25
Indonesia	2	0.01	0	0.00	0	0.00	2	0.01
Iran	11	0.07	2	0.05	2	0.02	15	0.05
Iraq	1	0.01	0	0.00	0	0.00	1	0.00
Israel	3	0.02	0	0.00	0	0.00	3	0.01
Japan	3	0.02	3	0.08	1	0.01	7	0.02
Lebanon	3	0.02	0	0.00	0	0.00	3	0.01
Macao	1	0.01	0	0.00	0	0.00	1	0.00
Malaysia	17	0.11	0	0.00	2	0.02	19	0.06
Myanmar	1	0.01	0	0.00	0	0.00	1	0.00
Pakistan	6	0.04	0	0.00	0	0.00	6	0.02
Philippines	868	5.43	33	0.86	95	0.85	996	3.22
Republic of Yemen	1	0.01	0	0.00	0	0.00	1	0.00
Saudi Arabia	1	0.01	0	0.00	0	0.00	1	0.00
Singapore	34	0.21	1	0.03	2	0.02	37	0.12
South Korea	22	0.14	1	0.03	1	0.01	24	0.08
Sri Lanka	1	0.01	0	0.00	1	0.01	2	0.01
Taiwan	14	0.09	2	0.05	0	0.00	16	0.05
Thailand	0	0.00	1	0.03	1	0.01	2	0.01
Turkey	1	0.01	0	0.00	0	0.00	1	0.00
<b>Africa Subtotal</b>	<b>77</b>	<b>0.48</b>	<b>6</b>	<b>0.16</b>	<b>20</b>	<b>0.18</b>	<b>103</b>	<b>0.33</b>
Egypt	4	0.03	0	0.00	1	0.01	5	0.02
Ethiopia	2	0.01	0	0.00	0	0.00	2	0.01
Ghana	1	0.01	0	0.00	3	0.03	4	0.01
Kenya	14	0.09	0	0.00	0	0.00	14	0.05
Mauritius	2	0.01	0	0.00	0	0.00	2	0.01
Nigeria	2	0.01	0	0.00	1	0.01	3	0.01
South Africa	43	0.27	6	0.16	15	0.13	64	0.21
Tanzania	1	0.01	0	0.00	0	0.00	1	0.00
Uganda	1	0.01	0	0.00	0	0.00	1	0.00
Zimbabwe	7	0.04	0	0.00	0	0.00	7	0.02
<b>Oceania Subtotal</b>	<b>193</b>	<b>1.21</b>	<b>38</b>	<b>0.99</b>	<b>121</b>	<b>1.09</b>	<b>352</b>	<b>1.14</b>
Australia	118	0.74	23	0.60	75	0.67	216	0.70
Fiji	1	0.01	0	0.00	0	0.00	1	0.00
New Zealand	74	0.46	15	0.39	46	0.41	135	0.44
<b>Unknown</b>	<b>8</b>	<b>0.05</b>	<b>1</b>	<b>0.03</b>	<b>4</b>	<b>0.04</b>	<b>13</b>	<b>0.04</b>
<b>TOTAL</b>	<b>15,985</b>	<b>100.00</b>	<b>3,841</b>	<b>100.00</b>	<b>11,126</b>	<b>100.00</b>	<b>30,952</b>	<b>100.00</b>

<sup>1</sup> Includes Practising and Non-Practising RNs.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Registered Nurses<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**June 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,106</b>	<b>80.61</b>	<b>204</b>	<b>91.89</b>	<b>870</b>	<b>93.95</b>	<b>2,180</b>	<b>86.51</b>
Newfoundland	17	1.24	2	0.90	18	1.94	37	1.47
Prince Edward Island	3	0.22	0	0.00	1	0.11	4	0.16
Nova Scotia	13	0.95	12	5.41	19	2.05	44	1.75
New Brunswick	11	0.80	3	1.35	4	0.43	18	0.71
Quebec	32	2.33	5	2.25	9	0.97	46	1.83
Ontario	115	8.38	34	15.32	83	8.96	232	9.21
Manitoba	32	2.33	12	5.41	40	4.32	84	3.33
Saskatchewan	19	1.38	7	3.15	56	6.05	82	3.25
Alberta	95	6.92	32	14.41	160	17.28	287	11.39
British Columbia	769	56.05	97	43.69	480	51.84	1,346	53.41
<b>Non-Canadian Subtotal</b>	<b>266</b>	<b>19.39</b>	<b>18</b>	<b>8.11</b>	<b>56</b>	<b>6.05</b>	<b>340</b>	<b>13.49</b>
<b>North &amp; Central America Subtotal</b>	<b>24</b>	<b>1.75</b>	<b>6</b>	<b>2.70</b>	<b>15</b>	<b>1.62</b>	<b>45</b>	<b>1.79</b>
El Salvador	1	0.07	0	0.00	1	0.11	2	0.08
Mexico	1	0.07	0	0.00	0	0.00	1	0.04
United States of America	22	1.60	6	2.70	14	1.51	42	1.67
<b>Europe Subtotal</b>	<b>76</b>	<b>5.54</b>	<b>6</b>	<b>2.70</b>	<b>26</b>	<b>2.81</b>	<b>108</b>	<b>4.29</b>
Bulgaria	1	0.07	0	0.00	1	0.11	2	0.08
Czechoslovakia <sup>3</sup>	7	0.51	0	0.00	1	0.11	8	0.32
Denmark	1	0.07	1	0.45	0	0.00	2	0.08
Finland	1	0.07	0	0.00	0	0.00	1	0.04
France	0	0.00	0	0.00	1	0.11	1	0.04
Germany	3	0.22	1	0.45	2	0.22	6	0.24
Irish Republic (Eire)	1	0.07	0	0.00	2	0.22	3	0.12
Poland	9	0.66	1	0.45	0	0.00	10	0.40
Romania	2	0.15	0	0.00	0	0.00	2	0.08
Russia	3	0.22	0	0.00	0	0.00	3	0.12
Sweden	2	0.15	0	0.00	1	0.11	3	0.12
United Kingdom	45	3.28	3	1.35	18	1.94	66	2.62
Yugoslavia <sup>3</sup>	1	0.07	0	0.00	0	0.00	1	0.04
<b>Asia Subtotal</b>	<b>145</b>	<b>10.57</b>	<b>2</b>	<b>0.90</b>	<b>8</b>	<b>0.86</b>	<b>155</b>	<b>6.15</b>
China	1	0.07	0	0.00	0	0.00	1	0.04
Hong Kong	51	3.72	0	0.00	1	0.11	52	2.06
India	14	1.02	0	0.00	2	0.22	16	0.63
Iran	4	0.29	1	0.45	0	0.00	5	0.20
Japan	1	0.07	1	0.45	1	0.11	3	0.12
Pakistan	2	0.15	0	0.00	0	0.00	2	0.08
Philippines	64	4.66	0	0.00	3	0.32	67	2.66
Singapore	3	0.22	0	0.00	1	0.11	4	0.16
South Korea	2	0.15	0	0.00	0	0.00	2	0.08
Taiwan	2	0.15	0	0.00	0	0.00	2	0.08
Turkey	1	0.07	0	0.00	0	0.00	1	0.04

*...continued*

**Table 2(continued)**  
**Registered Nurses<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**June 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Africa Subtotal</b>	<b>13</b>	<b>0.95</b>	<b>0</b>	<b>0.00</b>	<b>5</b>	<b>0.54</b>	<b>18</b>	<b>0.71</b>
Ethiopia	1	0.07	0	0.00	0	0.00	1	0.04
Ghana	0	0.00	0	0.00	1	0.11	1	0.04
Kenya	2	0.15	0	0.00	0	0.00	2	0.08
Mauritius	1	0.07	0	0.00	0	0.00	1	0.04
South Africa	7	0.51	0	0.00	4	0.43	11	0.44
Tanzania	1	0.07	0	0.00	0	0.00	1	0.04
Zimbabwe	1	0.07	0	0.00	0	0.00	1	0.04
<b>Oceania Subtotal</b>	<b>8</b>	<b>0.58</b>	<b>4</b>	<b>1.80</b>	<b>2</b>	<b>0.22</b>	<b>14</b>	<b>0.56</b>
Australia	6	0.44	3	1.35	2	0.22	11	0.44
Fiji	1	0.07	0	0.00	0	0.00	1	0.04
New Zealand	1	0.07	1	0.45	0	0.00	2	0.08
<b>TOTAL</b>	<b>1,372</b>	<b>100.00</b>	<b>222</b>	<b>100.00</b>	<b>926</b>	<b>100.00</b>	<b>2,520</b>	<b>100.00</b>

<sup>1</sup> Includes Practising and Non-practising RNs.

<sup>2</sup> RNs who reported B.C. addresses and were registered in June 1995 and whose date of initial registration was after June 1993.

<sup>3</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 3**  
**Non-Practising Registered Nurses<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**June 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>928</b>	<b>77.27</b>	<b>295</b>	<b>83.81</b>	<b>949</b>	<b>86.12</b>	<b>2,172</b>	<b>81.81</b>
Newfoundland	13	1.08	3	0.85	5	0.45	21	0.79
Prince Edward Island	2	0.17	0	0.00	1	0.09	3	0.11
Nova Scotia	10	0.83	2	0.57	11	1.00	23	0.87
New Brunswick	13	1.08	1	0.28	8	0.73	22	0.83
Quebec	48	4.00	9	2.56	15	1.36	72	2.71
Ontario	128	10.66	50	14.20	125	11.34	303	11.41
Manitoba	60	5.00	15	4.26	41	3.72	116	4.37
Saskatchewan	46	3.83	12	3.41	64	5.81	122	4.60
Alberta	60	5.00	32	9.09	122	11.07	214	8.06
British Columbia	548	45.63	171	48.58	557	50.54	1,276	48.06
<b>Non-Canadian Subtotal</b>	<b>272</b>	<b>22.65</b>	<b>56</b>	<b>15.91</b>	<b>151</b>	<b>13.70</b>	<b>479</b>	<b>18.04</b>
<b>North &amp; Central America Subtotal</b>	<b>31</b>	<b>2.58</b>	<b>9</b>	<b>2.56</b>	<b>37</b>	<b>3.36</b>	<b>77</b>	<b>2.90</b>
Jamaica	1	0.08	1	0.28	1	0.09	3	0.11
Trinidad and Tobago	0	0.00	0	0.00	1	0.09	1	0.04
United States of America	30	2.50	8	2.27	35	3.18	73	2.75
<b>South America Subtotal</b>	<b>1</b>	<b>0.08</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.04</b>
Peru	1	0.08	0	0.00	0	0.00	1	0.04
<b>Europe Subtotal</b>	<b>119</b>	<b>9.91</b>	<b>34</b>	<b>9.66</b>	<b>88</b>	<b>7.99</b>	<b>241</b>	<b>9.08</b>
Austria	2	0.17	0	0.00	0	0.00	2	0.08
Czechoslovakia <sup>2</sup>	3	0.25	0	0.00	0	0.00	3	0.11
Denmark	2	0.17	0	0.00	1	0.09	3	0.11
Germany	4	0.33	0	0.00	6	0.54	10	0.38
Irish Republic (Eire)	2	0.17	0	0.00	3	0.27	5	0.19
Netherlands	3	0.25	3	0.85	2	0.18	8	0.30
Norway	1	0.08	0	0.00	0	0.00	1	0.04
Russia	1	0.08	0	0.00	0	0.00	1	0.04
Sweden	2	0.17	0	0.00	1	0.09	3	0.11
United Kingdom	98	8.16	31	8.81	75	6.81	204	7.68
Yugoslavia <sup>2</sup>	1	0.08	0	0.00	0	0.00	1	0.04
<b>Asia Subtotal</b>	<b>96</b>	<b>7.99</b>	<b>7</b>	<b>1.99</b>	<b>12</b>	<b>1.09</b>	<b>115</b>	<b>4.33</b>
Hong Kong	53	4.41	1	0.28	2	0.18	56	2.11
India	3	0.25	1	0.28	1	0.09	5	0.19
Iran	1	0.08	2	0.57	0	0.00	3	0.11
Japan	0	0.00	0	0.00	1	0.09	1	0.04
Malaysia	1	0.08	0	0.00	0	0.00	1	0.04
Pakistan	1	0.08	0	0.00	0	0.00	1	0.04
Philippines	28	2.33	3	0.85	6	0.54	37	1.39
Singapore	4	0.33	0	0.00	1	0.09	5	0.19
South Korea	4	0.33	0	0.00	1	0.09	5	0.19
Taiwan	1	0.08	0	0.00	0	0.00	1	0.04
<b>Africa Subtotal</b>	<b>5</b>	<b>0.42</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>0.27</b>	<b>8</b>	<b>0.30</b>
Egypt	1	0.08	0	0.00	0	0.00	1	0.04
Ghana	0	0.00	0	0.00	1	0.09	1	0.04
Kenya	1	0.08	0	0.00	0	0.00	1	0.04
South Africa	2	0.17	0	0.00	2	0.18	4	0.15
Zimbabwe	1	0.08	0	0.00	0	0.00	1	0.04

...continued

**Table 3(continued)**  
**Non-Practising Registered Nurses<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**June 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Oceania Subtotal</b>	20	1.67	6	1.70	11	1.00	37	1.39
Australia	14	1.17	4	1.14	6	0.54	24	0.90
New Zealand	6	0.50	2	0.57	5	0.45	13	0.49
<b>Unknown</b>	1	0.08	1	0.28	2	0.18	4	0.15
<b>TOTAL</b>	1,201	100.00	352	100.00	1,102	100.00	2,655	100.00

<sup>1</sup> Excludes Practising RNs.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 4**  
**Registered Nurses<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**June 1995**

Health Region	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	%
1 East Kootenay	178	35.11	128	25.25	73	14.40	58	11.44	28	5.52	465	91.72	42	8.28	0	0.00	507	100.00
2 West Kootenay - Boundary	457	61.92	61	8.27	48	6.50	64	8.67	34	4.61	664	89.97	74	10.03	0	0.00	738	100.00
4 North Okanagan	435	54.10	129	16.04	87	10.82	66	8.21	26	3.23	743	92.41	61	7.59	0	0.00	804	100.00
5 South Okanagan - Similkameen	829	47.78	272	15.68	284	16.37	161	9.28	65	3.75	1,611	92.85	123	7.09	1	0.06	1,735	100.00
6 Thompson Valley	693	65.25	88	8.29	94	8.85	100	9.42	34	3.20	1,009	95.01	52	4.90	1	0.09	1,062	100.00
7 Upper Fraser Valley	704	50.04	124	8.81	199	14.14	156	11.09	73	5.19	1,256	89.27	149	10.59	2	0.14	1,407	100.00
9 South Fraser Valley	1,315	49.07	193	7.20	274	10.22	254	9.48	144	5.37	2,180	81.34	498	18.58	2	0.07	2,680	100.00
10 Simon Fraser	1,475	55.33	138	5.18	215	8.06	217	8.14	116	4.35	2,161	81.06	504	18.90	1	0.04	2,666	100.00
11 Coast Garibaldi	209	54.29	30	7.79	29	7.53	52	13.51	21	5.45	341	88.57	44	11.43	0	0.00	385	100.00
13 Central Vancouver Island	727	50.77	150	10.47	117	8.17	179	12.50	66	4.61	1,239	86.52	193	13.48	0	0.00	1,432	100.00
14 North Island/Mid Coast	377	48.58	65	8.38	78	10.05	108	13.92	66	8.51	694	89.43	82	10.57	0	0.00	776	100.00
15 Cariboo	259	64.11	25	6.19	32	7.92	36	8.91	15	3.71	367	90.84	37	9.16	0	0.00	404	100.00
16 North West	252	43.75	78	13.54	60	10.42	82	14.24	44	7.64	516	89.58	60	10.42	0	0.00	576	100.00
17 Peace River - Liard	119	33.52	86	24.23	61	17.18	34	9.58	28	7.89	328	92.39	27	7.61	0	0.00	355	100.00
18 Northern Interior	569	60.21	92	9.74	79	8.36	67	7.09	56	5.93	863	91.32	82	8.68	0	0.00	945	100.00
20 Vancouver	3,659	48.76	445	5.93	442	5.89	795	10.59	482	6.42	5,823	77.60	1,679	22.37	2	0.03	7,504	100.00
30 Burnaby	570	50.80	72	6.42	70	6.24	92	8.20	63	5.61	867	77.27	254	22.64	1	0.09	1,122	100.00
40 North Shore	629	48.76	77	5.97	108	8.37	169	13.10	83	6.43	1,066	82.64	222	17.21	2	0.16	1,290	100.00
50 Richmond	298	41.22	70	9.68	59	8.16	57	7.88	56	7.75	540	74.69	183	25.31	0	0.00	723	100.00
60 Capital Health	2,049	53.35	374	9.74	363	9.45	467	12.16	198	5.15	3,451	89.85	389	10.13	1	0.03	3,841	100.00
TOTAL	15,803	51.06	2,697	8.71	2,772	8.96	3,214	10.38	1,698	5.49	26,184	84.60	4,755	15.36	13	0.04	30,952	100.00

<sup>1</sup> Includes Practising and Non-Practising RNs.

**Table 5**  
**Mean Years since Graduation for Registered Nurses<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**June 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years		
1 East Kootenay	178	19.98	128	19.50	73	23.18	58	20.86	28	21.46	465	20.55	42	25.83	0	*	507	20.99
2 West Kootenay - Boundary	457	15.84	61	19.15	48	22.46	64	23.30	33	22.58	663	17.68	74	28.19	0	*	737	18.74
4 North Okanagan	434	18.03	128	21.82	87	25.02	66	22.80	26	23.77	741	20.13	61	25.89	0	*	802	20.57
5 South Okanagan - Similkameen	829	16.47	272	21.13	284	23.89	161	23.69	65	23.54	1,611	19.57	123	24.85	1	*	1,735	19.95
6 Thompson Valley	691	15.16	88	20.41	94	22.26	99	23.09	34	21.21	1,006	17.27	52	26.12	1	*	1,059	17.70
7 Upper Fraser Valley	701	16.10	124	19.49	198	21.37	155	23.17	73	19.38	1,251	18.34	149	26.89	1	*	1,401	19.27
9 South Fraser Valley	1,311	16.69	193	22.81	274	24.28	252	22.61	143	23.24	2,173	19.31	496	25.12	2	*	2,671	20.39
10 Simon Fraser	1,474	15.83	138	21.25	215	22.12	217	21.26	115	22.80	2,159	17.72	503	24.27	1	*	2,663	18.96
11 Coast Garibaldi	209	17.61	30	25.40	29	23.07	52	19.60	21	22.62	341	19.37	44	27.02	0	*	385	20.24
13 Central Vancouver Island	726	18.34	150	20.55	116	24.42	179	22.45	66	24.47	1,237	20.10	193	27.53	0	*	1,430	21.10
14 North Island/Mid Coast	377	17.42	65	21.42	78	22.74	107	22.87	66	21.65	693	19.64	82	25.38	0	*	775	20.24
15 Cariboo	259	15.63	25	19.08	32	23.69	36	23.11	15	22.53	367	17.58	37	31.27	0	*	404	18.83
16 North West	252	13.83	78	14.92	60	18.45	82	18.65	44	16.73	516	15.55	60	23.83	0	*	576	16.41
17 Peace River - Liard	119	14.98	86	13.22	61	17.26	34	21.62	28	17.71	328	15.87	27	23.11	0	*	355	16.42
18 Northern Interior	568	13.41	92	15.84	79	19.08	67	20.91	56	17.18	862	15.01	81	26.28	0	*	943	15.98
20 Vancouver	3,649	13.48	444	17.21	441	20.21	793	19.16	482	20.04	5,809	15.59	1,676	23.38	2	*	7,487	17.34
30 Burnaby	570	15.11	72	18.36	69	24.57	92	22.38	63	20.38	866	17.29	253	24.04	1	*	1,120	18.82
40 North Shore	628	17.30	77	23.51	108	26.50	168	24.10	83	23.51	1,064	20.24	222	26.83	2	*	1,288	21.39
50 Richmond	297	17.13	70	19.79	59	23.07	57	22.14	56	22.50	539	19.21	183	23.14	0	*	722	20.21
60 Capital Health	2,046	16.96	374	21.01	362	24.26	467	22.33	198	23.57	3,447	19.27	389	28.72	1	*	3,837	20.23
TOTAL	15,775	15.73	2,695	19.75	2,767	22.69	3,206	21.58	1,695	21.50	26,138	17.97	4,747	24.94	12	26.83	30,897	19.05

<sup>1</sup> Includes Practising and Non-Practising RNs.

<sup>2</sup> Excludes 55 RNs with missing or invalid year of graduation

\* Indicates that the base for the mean is less than 3.

**Table 6**  
**Mean Years since First Registration in B.C. for Registered Nurses<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**June 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	178	19.67	128	13.28	73	17.37	58	14.03	28	15.46	465	16.60	42	15.98	0	*	507	16.54
2 West Kootenay - Boundary	457	15.33	61	13.23	48	15.48	64	17.72	34	17.06	664	15.47	74	19.36	0	*	738	15.86
4 North Okanagan	434	17.65	128	14.48	87	15.51	66	16.24	26	15.54	741	16.65	61	17.70	0	*	802	16.73
5 South Okanagan - Similkameen	829	16.02	272	13.09	284	14.65	161	15.08	65	14.91	1,611	15.15	123	15.16	1	*	1,735	15.15
6 Thompson Valley	692	15.00	88	15.03	94	15.62	100	17.15	34	14.65	1,008	15.26	52	17.31	1	*	1,061	15.35
7 Upper Fraser Valley	701	15.76	124	14.41	199	13.16	156	14.46	73	11.81	1,253	14.82	149	15.32	1	*	1,403	14.87
9 South Fraser Valley	1,313	16.36	193	15.31	274	15.65	254	13.89	144	15.19	2,178	15.81	498	13.89	2	*	2,678	15.45
10 Simon Fraser	1,475	15.49	138	15.79	215	15.28	217	14.03	115	15.65	2,160	15.35	504	14.66	1	*	2,665	15.22
11 Coast Garibaldi	209	17.30	30	18.10	29	16.69	52	13.38	21	17.38	341	16.73	44	16.43	0	*	385	16.69
13 Central Vancouver Island	727	18.12	150	13.11	117	15.79	179	15.25	66	16.52	1,239	16.79	193	15.90	0	*	1,432	16.67
14 North Island/Mid Coast	377	17.15	65	15.12	78	14.87	108	13.70	66	13.68	694	15.84	82	16.32	0	*	776	15.89
15 Cariboo	259	15.42	25	12.40	32	16.47	36	18.56	15	19.67	367	15.78	37	19.14	0	*	404	16.09
16 North West	252	13.42	78	10.58	60	12.87	82	12.43	44	11.07	516	12.57	60	15.03	0	*	576	12.82
17 Peace River - Liard	119	14.70	86	8.98	61	11.79	34	14.91	28	10.36	328	12.31	27	13.70	0	*	355	12.41
18 Northern Interior	568	12.89	92	11.34	79	13.95	67	14.19	56	12.20	862	12.88	82	16.38	0	*	944	13.18
20 Vancouver	3,653	13.16	444	12.08	441	14.08	795	13.07	482	14.20	5,815	13.22	1,678	13.70	2	*	7,493	13.33
30 Burnaby	570	14.77	72	14.11	69	16.96	92	14.74	63	14.37	866	14.86	254	12.87	1	*	1,121	14.41
40 North Shore	628	17.00	77	16.61	108	19.56	168	16.83	83	16.33	1,064	17.15	222	17.54	2	*	1,288	17.21
50 Richmond	297	16.83	70	13.21	59	16.19	57	14.33	56	15.14	539	15.85	183	12.25	0	*	722	14.94
60 Capital Health	2,047	16.78	374	14.14	362	15.65	467	13.41	198	13.54	3,448	15.73	389	17.53	1	*	3,838	15.91
TOTAL	15,785	15.42	2,695	13.54	2,769	15.14	3,213	14.22	1,697	14.42	26,159	14.98	4,754	14.77	12	10.50	30,925	14.95

<sup>1</sup> Includes Practising and Non-Practising RNs.

<sup>2</sup> Excludes 27 RNs with missing or invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3.



**Table 7**  
**Mean Age of Registered Nurses<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**June 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean
		Age		Age		Age		Age		Age		Age		Age		Age		Age
1 East Kootenay	178	43.69	128	42.30	73	44.52	58	43.26	28	45.29	465	43.48	42	48.93	0	*	507	43.93
2 West Kootenay - Boundary	455	42.15	61	41.80	48	44.75	64	45.17	33	44.30	661	42.71	74	51.43	0	*	735	43.59
4 North Okanagan	433	43.24	129	44.69	87	46.91	66	45.42	26	45.00	741	44.18	61	47.62	0	*	802	44.44
5 South Okanagan - Similkameen	829	42.12	272	44.18	283	46.20	161	45.34	65	45.85	1,610	43.66	122	47.44	1	*	1,733	43.93
6 Thompson Valley	690	40.32	88	42.93	94	44.55	99	44.45	34	41.91	1,005	41.41	52	48.52	1	*	1,058	41.76
7 Upper Fraser Valley	703	40.81	124	43.23	198	44.69	155	45.74	73	41.08	1,253	42.29	149	49.52	2	*	1,404	43.09
9 South Fraser Valley	1,311	41.56	192	45.03	274	47.15	252	44.88	142	44.70	2,171	43.16	496	47.27	2	*	2,669	43.93
10 Simon Fraser	1,473	40.42	138	44.17	215	44.31	216	43.45	116	44.68	2,158	41.58	503	47.15	1	*	2,662	42.64
11 Coast Garibaldi	209	41.22	30	48.30	29	46.41	52	41.69	21	43.19	341	42.48	44	49.57	0	*	385	43.29
13 Central Vancouver Island	724	43.02	150	43.87	116	46.84	179	45.35	66	45.98	1,235	43.97	193	49.76	0	*	1,428	44.76
14 North Island/Mid Coast	377	42.01	65	44.37	78	45.19	107	45.18	66	43.05	693	43.17	82	48.35	0	*	775	43.72
15 Cariboo	259	41.02	25	41.56	32	47.09	36	45.03	15	43.73	367	42.09	37	53.32	0	*	404	43.12
16 North West	252	39.10	78	38.46	60	41.23	82	41.79	44	40.05	516	39.76	59	46.85	0	*	575	40.49
17 Peace River - Liard	119	39.29	86	37.00	61	40.93	34	43.50	28	39.68	328	39.46	27	44.85	0	*	355	39.87
18 Northern Interior	569	38.55	92	39.95	79	41.80	67	43.00	56	38.71	863	39.35	81	48.74	0	*	944	40.16
20 Vancouver	3,653	37.64	445	40.61	440	43.30	792	41.84	481	42.03	5,811	39.23	1,677	45.77	2	*	7,490	40.70
30 Burnaby	570	39.93	72	41.00	70	47.39	92	44.45	63	42.79	867	41.31	253	46.30	1	*	1,121	42.44
40 North Shore	629	41.42	77	45.61	108	49.13	169	46.48	83	44.87	1,066	43.58	222	49.05	2	*	1,290	44.53
50 Richmond	297	40.54	70	42.34	59	44.75	57	44.68	56	43.71	539	42.00	183	45.27	0	*	722	42.83
60 Capital Health	2,047	42.13	373	43.62	362	46.30	466	45.17	198	45.54	3,446	43.34	389	51.04	1	*	3,836	44.12
TOTAL	15,777	40.47	2,695	42.75	2,766	45.26	3,204	44.03	1,694	43.34	26,136	41.83	4,746	47.36	13	50.08	30,895	42.68

<sup>1</sup> Includes Practising and Non-Practising RNs.

<sup>2</sup> Excludes 57 RNs with missing or invalid age.

\* Indicates that the base for the mean is less than 3.



## Registered Psychiatric Nurses

**Definition:** Registered Psychiatric Nurses (RPNs) register with the Registered Psychiatric Nurses Association of British Columbia (RPNABC) as either "practising" or "non-practising" members.<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) A practising RPN must be employed in nursing. A non-practising RPN may not actively engage in the practise of psychiatric nursing. Data in the tables are presented based on employment address when the membership status is "practising" and employment address is available. In 1995, employment address was available for 99% of practising RPNs. Home address is used for the remainder, as well as for RPNs with non-practising status.

**Date of Record:** December 1995.

**Source of Data:** The Registered Psychiatric Nurses Association of British Columbia (RPNABC).

### Discussion:

The number of RPNs with unknown place of graduation should be kept in mind when using all of these tables; 8.06% of all registrants are unknown in terms of place of graduation, as are 7.34% of the practising members and 12.60% of the non-practising members and 2.73% of the new registrants. Figure 1 and Table 1 present the location of RPNs by place of graduation. Table 2 presents employment location for new registrants (registrants to the RPNABC between October 1993 and December 1995) with practising status, and Figure 2 compares practising new registrants by place of graduation with the total practising registration group (Table 3). Figure 1 indicates that the majority of RPNs in B.C. graduate in this province. Figure 2 indicates the proportions of both B.C. graduates and of Other Canada graduates among the new registrants are larger than in the total practising group, while the proportion of foreign graduates is smaller.

Tables 1 and 2 show that B.C. graduates are 61.32% of the total membership in the RPNABC and 66.67% of the new registrants, while Other Canada graduates are 16.34% of the total membership and 25.13% of the new registrants. Other Canada graduates come only from Manitoba, Saskatchewan and Alberta, as there are no training programs for psychiatric nurses in the rest of Canada. Graduates from Saskatchewan and Alberta, as well as B.C., show higher representation among the new registrants compared to the total group (9.29% vs. 6.75%, 12.57% vs. 4.03% and 66.67% vs. 61.32%, respectively). Non-Canadian graduates account for 14.29% of the total group, but only 5.46% of the new registrants. The biggest difference in the non-Canadian component is in graduates from Europe, and specifically the United Kingdom. Graduates from the U.K. are 12.98% of the total group, but only 2.73% of the new registrants.

The proportions of B.C., Other Canada and non-Canadian graduates in the three broad areas of the province (Vancouver and District, Capital and Other B.C.) also differ when comparing Tables 1 and 2. In Vancouver and District, B.C. graduates are 65.00% of the total group but 80.45% of the new registrants while non-Canadian graduates are 17.15% and 5.26%, respectively. As with the overall numbers, Saskatchewan, Alberta and B.C. have higher representation among the new registrants than the total group in Vancouver and District. The biggest difference among the foreign graduates is in those who graduated in the U.K. (15.72% in Table 1 vs. 1.50% in Table 2). In Other B.C., there is a much smaller proportion of B.C. graduates among the new registrants compared to all registrants (30.43% vs. 53.87%, respectively), but much larger proportions of Saskatchewan and Alberta graduates among the new

<sup>1</sup> The *Nurses (Registered Psychiatric) Act, 1979* mandates registration with the RPNABC in order to practise as an RPN in B.C.

registrants than the total group (23.91% vs. 12.07%, respectively, from Saskatchewan and 36.96% vs. 9.44%, respectively, from Alberta.). Comparisons between the new registrants and the total group in Capital should be made with caution, as the number of new registrants is relatively small.

Table 3 shows the distribution of practising members of the RPNABC by place of graduation, and Table 4 shows the distribution of non-practising members. Differences between Table 1 (the total group) and Tables 3 and 4 exist and should be noted; the discussion here, however, will focus on the differences between Table 3 and Table 4. The small number of foreign graduates with non-practising membership (21) limits the possibilities of discussion, though it can be noted that these twenty-one represent 5.75% of the non-practising membership; in contrast, non-Canadian graduates are 15.63% of the practising membership. All but one non-Canadian graduate in Table 4 came from the U.K., as did 328 of the 362 (90.61%) foreign-graduated RPNs in Table 3. The proportion of practising B.C. graduates is smaller than the proportion of non-practising B.C. graduates in all three broad areas of the province (63.86% vs. 74.16% in Vancouver and District, 44.09% vs. 64.00% in Capital and 50.87% vs. 65.65% in Other B.C.). This is in contrast to the proportions of Other Canada graduates, which are higher among the practising members compared to the non-practising members (10.81% vs. 6.70% in Vancouver and District, 34.65% vs. 16.00% in Capital and 33.40% vs. 17.56% in Other B.C.).

Table 5 presents location for RPNs by health region and by place of graduation, with foreign graduates aggregated into one category. The Simon Fraser health region is the location of 1,075 RPNs out of 2,681 total, as this health region is the location of several large RPN employers, including B.C.'s only psychiatric hospital. This health region also holds a far larger proportion of Other Country graduates (63.45%) than it does Canadian graduates (36.94%). In fact, foreign graduates are fairly sparse in the rest of the province, and there are four health regions without any foreign-trained RPNs: East Kootenay, West Kootenay-Boundary, North Okanagan, and Coast Garibaldi.

Table 6 uses the same format as Table 5, this time presenting mean years since graduation. Alberta graduates have the lowest mean at 16.47 years, followed closely by B.C. graduates at 17.90 years. Other Country graduates show a mean years since graduation that is much larger (25.78 years), with the Thompson Valley health region having the single highest for non-Canadian graduates at 29.88 years. The overall provincial average for years since graduation is 19.31, with a range from 13.83 years in Coast Garibaldi to 24.63 in West Kootenay-Boundary.

Data provided by the RPNABC did not include date of initial registration, so a table showing mean years since first registration could not be produced. Table 7 presents mean age for RPNs by health region and by place of graduation. As might be expected after examining Table 6, B.C., Alberta and Saskatchewan & Manitoba graduates all have a lower mean age than graduates from other countries. B.C. graduates, however, have a slightly lower mean age than Alberta graduates, even though the Alberta-trained RPNs have, on average, a lower mean years since graduation. This may reflect differences in the education programs in these two provinces, or the age at which people choose to enter the programs. (It should also be kept in mind that the "N" used for these two tables is different, because of variation in the completeness of the data.)

Figure 1

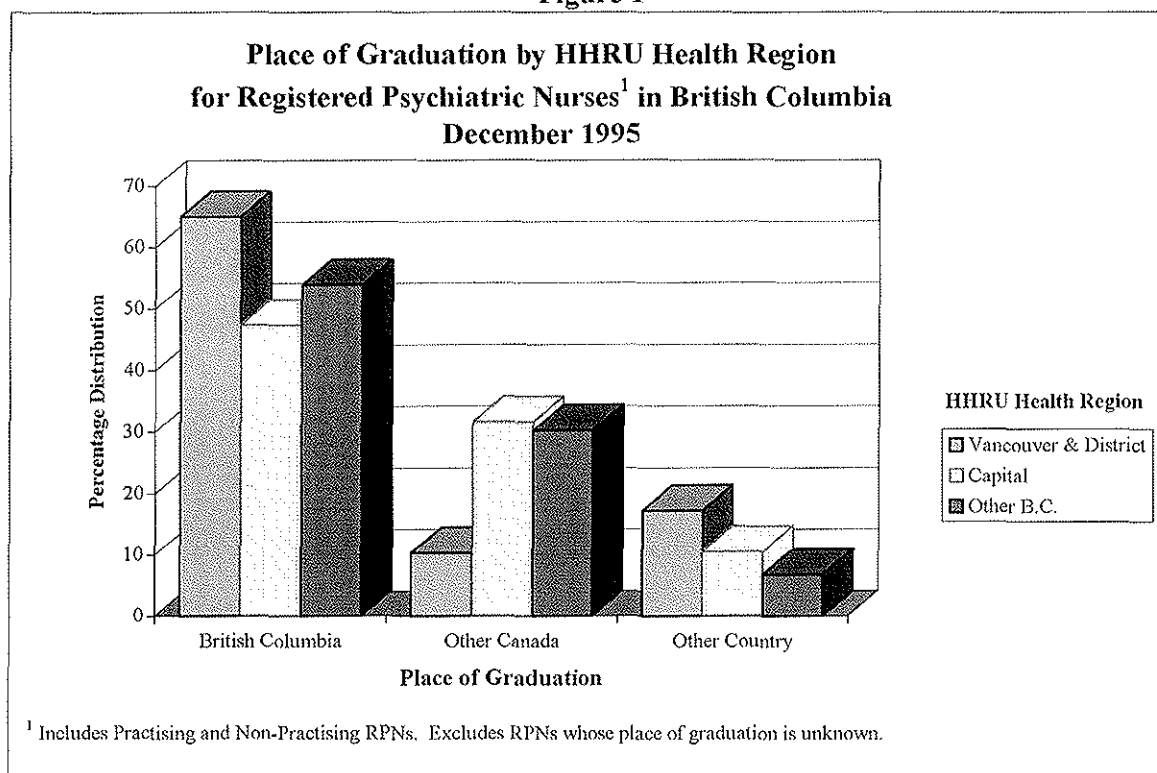
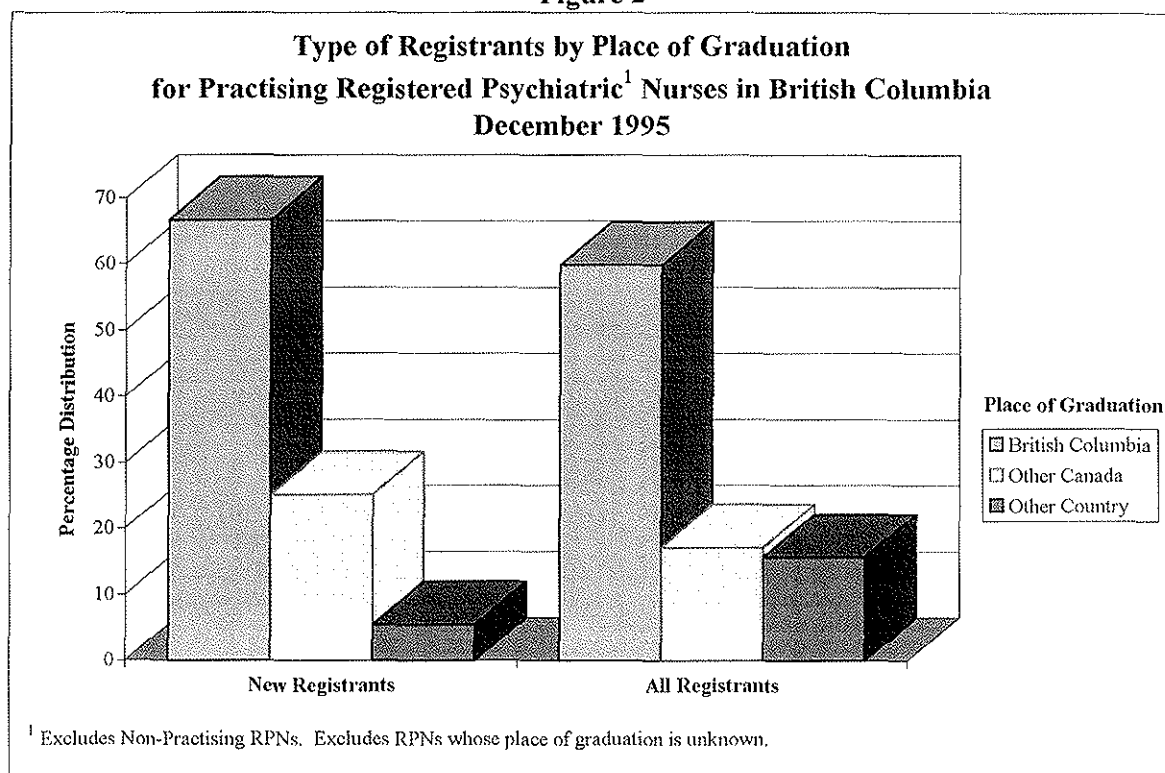


Figure 2



**Table 1**  
**Registered Psychiatric Nurses in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,419</b>	<b>75.36</b>	<b>120</b>	<b>78.95</b>	<b>543</b>	<b>84.06</b>	<b>2,082</b>	<b>77.66</b>
Manitoba	73	3.88	20	13.16	56	8.67	149	5.56
Saskatchewan	84	4.46	19	12.50	78	12.07	181	6.75
Alberta	38	2.02	9	5.92	61	9.44	108	4.03
British Columbia	1,224	65.00	72	47.37	348	53.87	1,644	61.32
<b>Non-Canadian Subtotal</b>	<b>323</b>	<b>17.15</b>	<b>16</b>	<b>10.53</b>	<b>44</b>	<b>6.81</b>	<b>383</b>	<b>14.29</b>
<b>Europe Subtotal</b>	<b>301</b>	<b>15.99</b>	<b>16</b>	<b>10.53</b>	<b>40</b>	<b>6.19</b>	<b>357</b>	<b>13.32</b>
Germany	0	0.00	0	0.00	1	0.15	1	0.04
Netherlands	3	0.16	1	0.66	1	0.15	5	0.19
Switzerland	1	0.05	1	0.66	0	0.00	2	0.07
United Kingdom	296	15.72	14	9.21	38	5.88	348	12.98
Europe (country unstated)	1	0.05	0	0.00	0	0.00	1	0.04
<b>Asia Subtotal</b>	<b>16</b>	<b>0.85</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>0.46</b>	<b>19</b>	<b>0.71</b>
Hong Kong	13	0.69	0	0.00	2	0.31	15	0.56
Singapore	3	0.16	0	0.00	1	0.15	4	0.15
<b>Africa Subtotal</b>	<b>1</b>	<b>0.05</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.04</b>
South Africa	1	0.05	0	0.00	0	0.00	1	0.04
<b>Oceania Subtotal</b>	<b>5</b>	<b>0.27</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.15</b>	<b>6</b>	<b>0.22</b>
Australia	5	0.27	0	0.00	1	0.15	6	0.22
<b>Unknown</b>	<b>141</b>	<b>7.49</b>	<b>16</b>	<b>10.53</b>	<b>59</b>	<b>9.13</b>	<b>216</b>	<b>8.06</b>
<b>TOTAL</b>	<b>1,883</b>	<b>100.00</b>	<b>152</b>	<b>100.00</b>	<b>646</b>	<b>100.00</b>	<b>2,681</b>	<b>100.00</b>

<sup>1</sup> Includes Practising and Non-Practising RPNs.

**Table 2**  
**Practising Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>123</b>	<b>92.48</b>	<b>2</b>	<b>50.00</b>	<b>43</b>	<b>93.48</b>	<b>168</b>	<b>91.80</b>
Manitoba	5	3.76	0	0.00	1	2.17	6	3.28
Saskatchewan	6	4.51	0	0.00	11	23.91	17	9.29
Alberta	5	3.76	1	25.00	17	36.96	23	12.57
British Columbia	107	80.45	1	25.00	14	30.43	122	66.67
<b>Non-Canadian Subtotal</b>	<b>7</b>	<b>5.26</b>	<b>2</b>	<b>50.00</b>	<b>1</b>	<b>2.17</b>	<b>10</b>	<b>5.46</b>
<b>Europe Subtotal</b>	<b>2</b>	<b>1.50</b>	<b>2</b>	<b>50.00</b>	<b>1</b>	<b>2.17</b>	<b>5</b>	<b>2.73</b>
United Kingdom	2	1.50	2	50.00	1	2.17	5	2.73
<b>Asia Subtotal</b>	<b>2</b>	<b>1.50</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>1.09</b>
Hong Kong	2	1.50	0	0.00	0	0.00	2	1.09
<b>Africa Subtotal</b>	<b>1</b>	<b>0.75</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.55</b>
South Africa	1	0.75	0	0.00	0	0.00	1	0.55
<b>Oceania Subtotal</b>	<b>2</b>	<b>1.50</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>1.09</b>
Australia	2	1.50	0	0.00	0	0.00	2	1.09
<b>Unknown</b>	<b>3</b>	<b>2.26</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>4.35</b>	<b>5</b>	<b>2.73</b>
<b>TOTAL</b>	<b>133</b>	<b>100.00</b>	<b>4</b>	<b>100.00</b>	<b>46</b>	<b>100.00</b>	<b>183</b>	<b>100.00</b>

<sup>1</sup> Excludes Non-Practising RPNs.

<sup>2</sup> Practising RPNs who reported B.C. addresses in December 1995 and whose date of initial registration was after October 1993.

**Table 3**  
**Practising Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>1,250</b>	<b>74.67</b>	<b>100</b>	<b>78.74</b>	<b>434</b>	<b>84.27</b>	<b>1,784</b>	<b>77.03</b>
Manitoba	69	4.12	18	14.17	46	8.93	133	5.74
Saskatchewan	82	4.90	18	14.17	70	13.59	170	7.34
Alberta	30	1.79	8	6.30	56	10.87	94	4.06
British Columbia	1,069	63.86	56	44.09	262	50.87	1,387	59.89
<b>Non-Canadian Subtotal</b>	<b>310</b>	<b>18.52</b>	<b>15</b>	<b>11.81</b>	<b>37</b>	<b>7.18</b>	<b>362</b>	<b>15.63</b>
<b>Europe Subtotal</b>	<b>288</b>	<b>17.20</b>	<b>15</b>	<b>11.81</b>	<b>33</b>	<b>6.41</b>	<b>336</b>	<b>14.51</b>
Germany	0	0.00	0	0.00	1	0.19	1	0.04
Netherlands	3	0.18	0	0.00	1	0.19	4	0.17
Switzerland	1	0.06	1	0.79	0	0.00	2	0.09
United Kingdom	283	16.91	14	11.02	31	6.02	328	14.16
Europe (country unstated)	1	0.06	0	0.00	0	0.00	1	0.04
<b>Asia Subtotal</b>	<b>16</b>	<b>0.96</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>0.58</b>	<b>19</b>	<b>0.82</b>
Hong Kong	13	0.78	0	0.00	2	0.39	15	0.65
Singapore	3	0.18	0	0.00	1	0.19	4	0.17
<b>Africa Subtotal</b>	<b>1</b>	<b>0.06</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.04</b>
South Africa	1	0.06	0	0.00	0	0.00	1	0.04
<b>Oceania Subtotal</b>	<b>5</b>	<b>0.30</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.19</b>	<b>6</b>	<b>0.26</b>
Australia	5	0.30	0	0.00	1	0.19	6	0.26
<b>Unknown</b>	<b>114</b>	<b>6.81</b>	<b>12</b>	<b>9.45</b>	<b>44</b>	<b>8.54</b>	<b>170</b>	<b>7.34</b>
<b>TOTAL</b>	<b>1,674</b>	<b>100.00</b>	<b>127</b>	<b>100.00</b>	<b>515</b>	<b>100.00</b>	<b>2,316</b>	<b>100.00</b>

<sup>1</sup> Excludes Non-Practising RPNs.



**Table 4**  
**Non-Practising Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>169</b>	<b>80.86</b>	<b>20</b>	<b>80.00</b>	<b>109</b>	<b>83.21</b>	<b>298</b>	<b>81.64</b>
Manitoba	4	1.91	2	8.00	10	7.63	16	4.38
Saskatchewan	2	0.96	1	4.00	8	6.11	11	3.01
Alberta	8	3.83	1	4.00	5	3.82	14	3.84
British Columbia	155	74.16	16	64.00	86	65.65	257	70.41
<b>Non-Canadian Subtotal</b>	<b>13</b>	<b>6.22</b>	<b>1</b>	<b>4.00</b>	<b>7</b>	<b>5.34</b>	<b>21</b>	<b>5.75</b>
<b>Europe Subtotal</b>	<b>13</b>	<b>6.22</b>	<b>1</b>	<b>4.00</b>	<b>7</b>	<b>5.34</b>	<b>21</b>	<b>5.75</b>
Netherlands	0	0.00	1	4.00	0	0.00	1	0.27
United Kingdom	13	6.22	0	0.00	7	5.34	20	5.48
<b>Unknown</b>	<b>27</b>	<b>12.92</b>	<b>4</b>	<b>16.00</b>	<b>15</b>	<b>11.45</b>	<b>46</b>	<b>12.60</b>
<b>TOTAL</b>	<b>209</b>	<b>100.00</b>	<b>25</b>	<b>100.00</b>	<b>131</b>	<b>100.00</b>	<b>365</b>	<b>100.00</b>

<sup>1</sup> Excludes Practising RPNs.

**Table 5**  
**Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation													
	B.C.		Alberta		Saskatchewan & Manitoba		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 East Kootenay	9	60.00	0	0.00	5	33.33	14	93.33	0	0.00	1	6.67	15	100.00
2 West Kootenay - Boundary	21	80.77	3	11.54	2	7.69	26	100.00	0	0.00	0	0.00	26	100.00
4 North Okanagan	46	58.97	10	12.82	15	19.23	71	91.03	0	0.00	7	8.97	78	100.00
5 South Okanagan - Similkameen	44	45.83	11	11.46	25	26.04	80	83.33	6	6.25	10	10.42	96	100.00
6 Thompson Valley	28	50.91	3	5.45	10	18.18	41	74.55	8	14.55	6	10.91	55	100.00
7 Upper Fraser Valley	67	47.52	10	7.09	32	22.70	109	77.30	19	13.48	13	9.22	141	100.00
9 South Fraser Valley	167	70.46	9	3.80	22	9.28	198	83.54	18	7.59	21	8.86	237	100.00
10 Simon Fraser	670	62.33	15	1.40	84	7.81	769	71.53	243	22.60	63	5.86	1,075	100.00
11 Coast Garibaldi	23	92.00	0	0.00	0	0.00	23	92.00	0	0.00	2	8.00	25	100.00
13 Central Vancouver Island	37	52.86	3	4.29	16	22.86	56	80.00	4	5.71	10	14.29	70	100.00
14 North Island/Mid Coast	19	57.58	5	15.15	4	12.12	28	84.85	2	6.06	3	9.09	33	100.00
15 Cariboo	12	50.00	2	8.33	7	29.17	21	87.50	2	8.33	1	4.17	24	100.00
16 North West	19	65.52	3	10.34	5	17.24	27	93.10	1	3.45	1	3.45	29	100.00
17 Peace River - Liard	7	28.00	6	24.00	9	36.00	22	88.00	1	4.00	2	8.00	25	100.00
18 Northern Interior	16	55.17	5	17.24	4	13.79	25	86.21	1	3.45	3	10.34	29	100.00
20 Vancouver	188	64.60	8	2.75	32	11.00	228	78.35	34	11.68	29	9.97	291	100.00
30 Burnaby	125	71.02	4	2.27	10	5.68	139	78.98	21	11.93	16	9.09	176	100.00
40 North Shore	56	75.68	2	2.70	7	9.46	65	87.84	1	1.35	8	10.81	74	100.00
50 Richmond	18	60.00	0	0.00	2	6.67	20	66.67	6	20.00	4	13.33	30	100.00
60 Capital Health	72	47.37	9	5.92	39	25.66	120	78.95	16	10.53	16	10.53	152	100.00
TOTAL	1,644	61.32	108	4.03	330	12.31	2,082	77.66	383	14.29	216	8.06	2,681	100.00

<sup>1</sup> Includes Practising and Non-Practising RPNs.

**Table 6**  
**Mean Years since Graduation for Registered Psychiatric Nurses<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation													
	B.C.		Alberta		Saskatchewan & Manitoba		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	9	19.33	0	*	4	13.75	13	17.62	0	*	0	*	13	17.62
2 West Kootenay - Boundary	21	24.86	3	23.00	0	*	24	24.63	0	*	0	*	24	24.63
4 North Okanagan	45	22.98	10	19.70	13	27.00	68	23.26	0	*	0	*	68	23.26
5 South Okanagan - Similkameen	43	21.70	11	15.82	25	17.64	79	19.59	5	27.60	0	*	84	20.07
6 Thompson Valley	28	21.46	3	9.33	9	24.56	40	21.25	8	29.88	1	*	49	22.31
7 Upper Fraser Valley	67	21.58	8	15.75	32	22.41	107	21.39	16	26.13	2	*	125	21.88
9 South Fraser Valley	165	17.69	8	14.50	20	20.30	193	17.83	18	26.89	2	*	213	18.52
10 Simon Fraser	668	17.96	15	18.00	82	21.60	765	18.35	233	26.31	6	16.33	1,004	20.18
11 Coast Garibaldi	23	13.83	0	*	0	*	23	13.83	0	*	0	*	23	13.83
13 Central Vancouver Island	37	21.16	2	*	13	19.69	52	20.65	4	23.25	0	*	56	20.84
14 North Island/Mid Coast	19	18.74	5	12.40	3	14.33	27	17.07	1	*	0	*	28	17.71
15 Cariboo	12	16.92	1	*	7	27.43	20	20.25	2	*	0	*	22	21.23
16 North West	19	20.00	2	*	5	18.60	26	19.00	1	*	0	*	27	18.59
17 Peace River - Liard	7	14.43	6	12.00	9	16.44	22	14.59	0	*	0	*	22	14.59
18 Northern Interior	16	21.81	5	7.40	4	19.25	25	18.52	1	*	0	*	26	18.08
20 Vancouver	187	13.82	7	14.86	27	13.52	221	13.82	29	22.48	3	10.00	253	14.77
30 Burnaby	124	16.00	2	*	9	20.33	135	16.35	19	24.26	1	*	155	17.25
40 North Shore	56	12.75	2	*	6	16.83	64	13.56	1	*	0	*	65	13.88
50 Richmond	18	13.33	0	*	2	*	20	13.30	6	18.67	1	*	27	14.33
60 Capital Health	72	22.88	7	26.29	39	22.82	118	23.06	16	25.44	0	*	134	23.34
TOTAL	1,636	17.90	97	16.47	309	20.50	2,042	18.23	360	25.78	16	12.13	2,418	19.31

<sup>1</sup> Includes Practising and Non-Practising RPNs.

<sup>2</sup> Excludes 263 RPNs with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 7**  
**Mean Age of Registered Psychiatric Nurses<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation												TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Canada Subtotal		Other Country		Unknown			
	Mean		Mean		Mean		Mean		Mean		Mean		Mean	
	N	Age	N	Age	N	Age	N	Age	N	Age	N	Age	N	Age
1 East Kootenay	9	42.78	0	*	4	36.50	13	40.85	0	*	1	*	14	41.57
2 West Kootenay - Boundary	21	46.57	3	47.33	2	*	26	45.88	0	*	0	*	26	45.88
4 North Okanagan	45	46.56	10	45.30	14	50.36	69	47.14	0	*	6	39.50	75	46.53
5 South Okanagan - Similkameen	44	43.86	11	41.73	23	41.35	78	42.82	6	51.00	10	47.60	94	43.85
6 Thompson Valley	27	46.48	3	34.67	10	44.90	40	45.20	8	53.50	6	44.67	54	46.37
7 Upper Fraser Valley	67	47.52	10	47.70	32	44.66	109	46.70	18	50.61	13	40.31	140	46.61
9 South Fraser Valley	165	42.85	9	41.22	21	44.29	195	42.93	16	51.31	17	44.06	228	43.61
10 Simon Fraser	661	42.99	14	44.71	84	44.89	759	43.24	238	51.85	62	38.58	1,059	44.90
11 Coast Garibaldi	23	39.13	0	*	0	*	23	39.13	0	*	2	*	25	39.60
13 Central Vancouver Island	36	43.42	3	45.33	16	45.88	55	44.24	4	45.50	10	38.80	69	43.52
14 North Island/Mid Coast	19	42.32	4	38.50	3	43.00	26	41.81	2	*	3	35.67	31	42.03
15 Cariboo	12	44.00	2	*	7	49.71	21	45.81	2	*	1	*	24	46.58
16 North West	18	44.78	3	29.33	5	41.80	26	42.42	1	*	1	*	28	42.93
17 Peace River - Liard	7	39.00	5	43.00	9	42.56	21	41.48	1	*	2	*	24	41.25
18 Northern Interior	16	42.81	5	34.40	4	41.00	25	40.84	1	*	2	*	28	40.11
20 Vancouver	187	40.16	7	39.71	31	37.58	225	39.79	34	48.88	28	38.18	287	40.71
30 Burnaby	121	40.85	4	45.00	10	43.80	135	41.19	20	49.95	15	42.33	170	42.32
40 North Shore	54	39.33	2	*	7	39.71	63	39.84	1	*	7	40.71	71	40.17
50 Richmond	18	39.11	0	*	2	*	20	39.30	6	45.17	3	50.00	29	41.62
60 Capital Health	71	45.96	9	49.22	39	45.46	119	46.04	16	48.44	16	42.00	151	45.87
TOTAL	1,621	42.83	104	43.19	323	43.83	2,048	43.00	374	51.05	205	40.67	2,627	43.97

<sup>1</sup> Includes Practising and Non-Practising RPNs.

<sup>2</sup> Excludes 54 RPNs with missing or invalid age.

\* Indicates that the base for the mean is less than 3.



## IV Nutrition and Dietary Services

## Registered Dietitians and Nutritionists

**Definition:** Registered Dietitians and Nutritionists (RDNs) included in this report registered with the British Columbia Dietitians' and Nutritionists' Association (BCDNA) as either "practising" or "non-practising" members.<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Membership in the BCDNA does not necessarily imply employment in the field. Data in the tables are presented based on employment address when the membership status is practising, when employment in dietetics/nutrition is reported, and when employment address is available. In 1995, employment address was available for 94% of practising RDNs employed in dietetics/nutrition. Home address is used for the remainder, as well as for RDNs with practising status who are not employed in dietetics/nutrition, and for RDNs with non-practising status.

**Date of Record:** December 1995.

**Source of Data:** The British Columbia Dietitians' and Nutritionists' Association (BCDNA).

### Discussion:

The registered dietitians and nutritionists group is one of only two included in *PLACE OF GRADUATION* which is not a mandatory registration group. As a result, the information presented here is representative only of those people trained as dietitians and nutritionists who choose to become members of the BCDNA. Many employers may insist on membership with the BCDNA as a prerequisite for employment, and the BCDNA is thought to have a fairly comprehensive membership, but there is no way to guarantee, as with groups where registration is mandatory, that the entire workforce is represented in these tables.

Figure 1 and Table 1 show the place of graduation for all registered dietitians and nutritionists. Figure 2 and Table 2 show this same information for new registrants (registrants to the BCDNA between December 1993 and December 1995) with practising memberships. Figure 1 indicates a large proportion of dietitians and nutritionists graduate from schools in other parts of Canada, and shows a significant difference in employment location for graduates of different areas. Figure 2 shows similar distributions of B.C. graduates and foreign graduates in both the practising new registrants and the total group, but a somewhat smaller proportion of Other Canada graduates in the new registrants than seen in the total group. Tables 1 and 2 show that B.C. graduates are 47.17% of the total registration group and 46.84% of the practising new registrants. The percentage of Other Canada graduates, however, is slightly higher in the total group (44.92%) than in the new registrants (41.77%). This is probably attributable to the larger proportions of graduates from the provinces of Quebec, Ontario, Manitoba and Alberta in the total group compared to the smaller proportions of graduates from those provinces in the new registrants.

Table 1 illustrates the differences in location suggested by Figure 1. B.C. graduates range from making up only 30.77% of the dietitian and nutritionist population in Capital to 45.85% of that population in Other B.C. and 50.97% in Vancouver and District. The paucity of B.C. graduates in Capital is made up for by Alberta (18.68%), Nova Scotia (13.19%) and Quebec (8.79%) graduates. These numbers are all far higher than the group totals for these provinces (10.80%, 5.40%, and 5.53%, respectively). The foreign component of the dietitian and nutritionist group is relatively small (6.85%), with a large portion coming from the U.S. (3.16%). Capital registers the highest proportion of foreign

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<sup>1</sup> Membership in the BCDNA is voluntary, but registered members have exclusive use of the titles Registered Dietitian, Registered Nutritionist, Registered Dietitian/Nutritionist and R.D.N.

graduates (7.69%), and a disproportionate number of graduates from the Philippines (4.40% in Capital compared to 1.58% overall).

Separate tables on practising members of the BCDNA, practising members who reported employment in dietetics/nutrition and non-practising BCDNA members were also produced this year but are not included. The first two tables are not included this year as the distributions were all within one or two percentage points of those seen in Table 1 (all BCDNA members) with the exception of Nova Scotia graduates located in Capital. Nova Scotia graduates are 13.19% of all BCDNA members located in Capital, but only 8.43% of the practising members in Capital and 7.41% of the practising members who reported employment in dietetics/nutrition in Capital. The table on non-practising BCDNA members is also not included because the small number of dietitians and nutritionists in the non-practising registration category (only 90) makes extensive comparisons difficult. The most noteworthy differences between the non-practising membership and the total membership are that Other Canada graduates are 44.92% of the total membership, but only 41.11% of the non-practising membership, while the foreign graduates makeup 6.85% of the total membership and 8.89% of the non-practising membership. These three tables are available upon request.

Table 3 presents the location of dietitians and nutritionists by health region and by place of graduation, with graduates from the provinces east of Ontario aggregated into the category "Other Canada", and foreign graduates aggregated into the category "Other Country". The proportion of B.C. graduates in the total membership of the BCDNA is 47.17%, but the range in the individual health regions is from 0.00% in Peace River-Liard to 71.43% in Cariboo. These two health regions, however, are two of three regions in the province with fewer than ten dietitians and nutritionists total, so a difference of only one or two individuals largely influences the proportions in these regions. There are six health regions where the population of dietitians and nutritionists is made up entirely of Canadian graduates: Upper Fraser Valley, Coast Garibaldi, Central Vancouver Island, Cariboo, North West and Northern Interior.

Table 4 uses the same format as Table 3, this time presenting mean years since graduation. The province-wide totals show that B.C. graduates have the lowest mean years since graduation at 13.42, while those trained in other countries graduated, on average, 21.92 years ago. Saskatchewan and Manitoba graduates have the second highest mean years since graduation, at 17.10. Provincial totals by health region indicate a fairly wide variation in mean years since graduation; looking only at health regions with at least ten dietitians and nutritionists, the range is from 12.53 in South Okanagan-Similkameen to 18.64 in Central Vancouver Island.

Table 5 looks at mean years since first registration with the BCDNA by health region and by place of graduation. Other Country graduates show the highest mean years since first registration at 10.58 years, and the lowest mean is found among Saskatchewan & Manitoba graduates (7.42 years). This is a much tighter distribution than that seen in the mean years since graduation (Table 6). The range across the health regions, looking only at health regions with at least ten dietitians and nutritionists, is from 6.72 years in North Okanagan to 11.96 years in North Shore. Only three regions have a mean years since first registration with the BCDNA that is greater than 10: North Shore (11.96 years), Capital Health (10.87 years) and Northern Interior (10.43 years).

A table showing mean age by health region and by place of graduation for dietitians and nutritionists is not published as it does not offer additional information; this table was produced, however, and is available upon request.



Figure 1

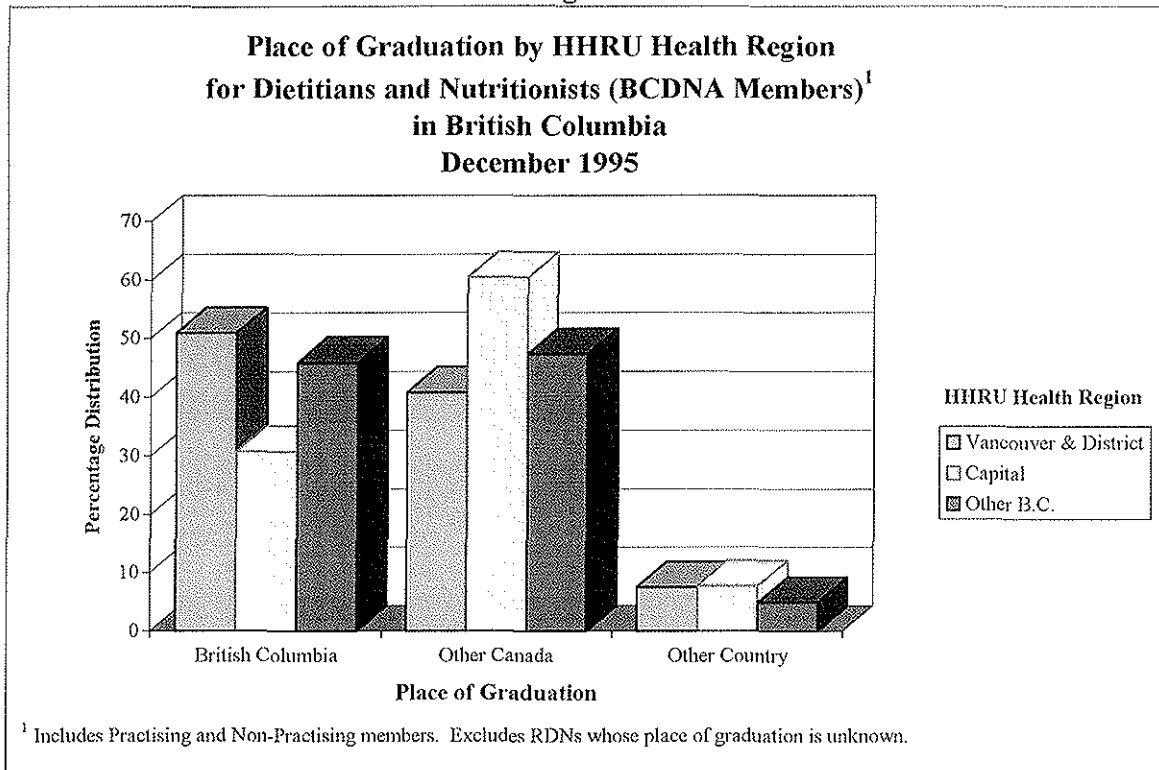
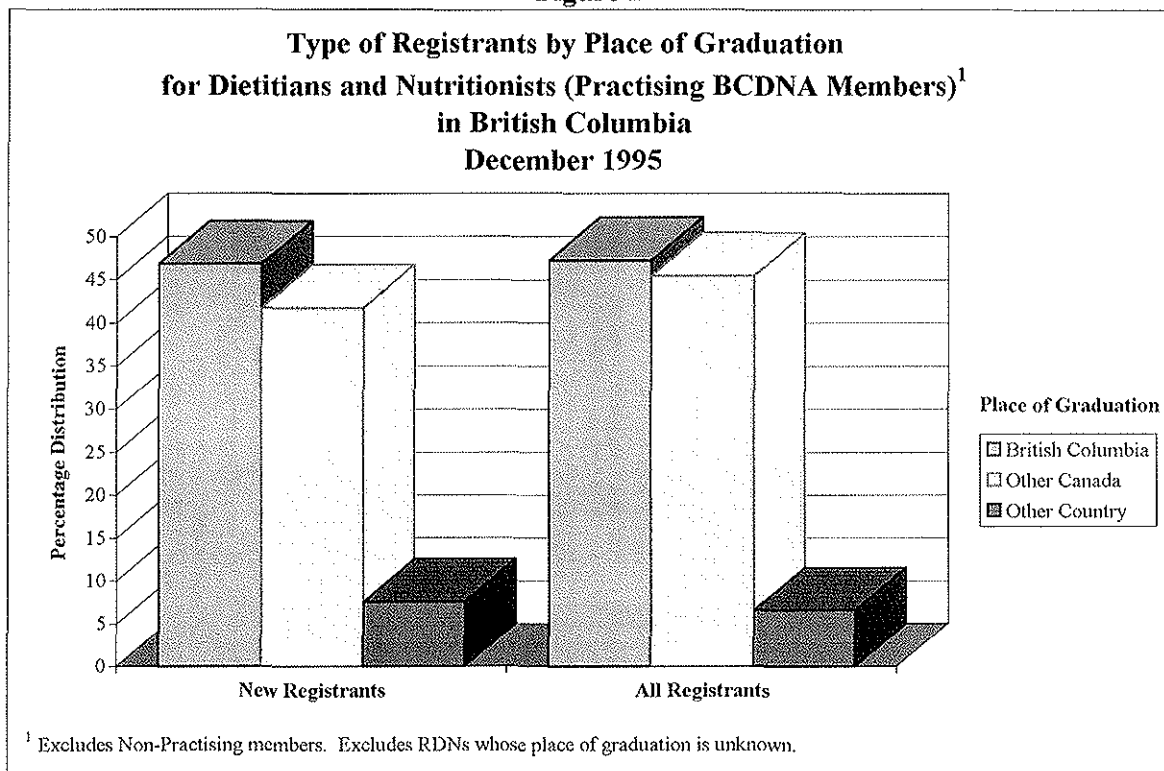


Figure 2



**Table 1**  
**Dietitians and Nutritionists (BCDNA Members)<sup>1,2</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>425</b>	<b>91.79</b>	<b>83</b>	<b>91.21</b>	<b>191</b>	<b>93.17</b>	<b>699</b>	<b>92.09</b>
Newfoundland	1	0.22	1	1.10	0	0.00	2	0.26
Prince Edward Island	4	0.86	1	1.10	2	0.98	7	0.92
Nova Scotia	23	4.97	12	13.19	6	2.93	41	5.40
New Brunswick	6	1.30	1	1.10	1	0.49	8	1.05
Quebec	24	5.18	8	8.79	10	4.88	42	5.53
Ontario	52	11.23	10	10.99	28	13.66	90	11.86
Manitoba	24	5.18	2	2.20	15	7.32	41	5.40
Saskatchewan	11	2.38	3	3.30	14	6.83	28	3.69
Alberta	44	9.50	17	18.68	21	10.24	82	10.80
British Columbia	236	50.97	28	30.77	94	45.85	358	47.17
<b>Non-Canadian Subtotal</b>	<b>35</b>	<b>7.56</b>	<b>7</b>	<b>7.69</b>	<b>10</b>	<b>4.88</b>	<b>52</b>	<b>6.85</b>
<b>North &amp; Central America Subtotal</b>	<b>17</b>	<b>3.67</b>	<b>2</b>	<b>2.20</b>	<b>6</b>	<b>2.93</b>	<b>25</b>	<b>3.29</b>
Mexico	1	0.22	0	0.00	0	0.00	1	0.13
United States of America	16	3.46	2	2.20	6	2.93	24	3.16
<b>Europe Subtotal</b>	<b>9</b>	<b>1.94</b>	<b>1</b>	<b>1.10</b>	<b>1</b>	<b>0.49</b>	<b>11</b>	<b>1.45</b>
Germany	2	0.43	1	1.10	0	0.00	3	0.40
Netherlands	1	0.22	0	0.00	0	0.00	1	0.13
United Kingdom	6	1.30	0	0.00	1	0.49	7	0.92
<b>Asia Subtotal</b>	<b>7</b>	<b>1.51</b>	<b>4</b>	<b>4.40</b>	<b>1</b>	<b>0.49</b>	<b>12</b>	<b>1.58</b>
Philippines	7	1.51	4	4.40	1	0.49	12	1.58
<b>Africa Subtotal</b>	<b>1</b>	<b>0.22</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.13</b>
South Africa	1	0.22	0	0.00	0	0.00	1	0.13
<b>Oceania Subtotal</b>	<b>1</b>	<b>0.22</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.98</b>	<b>3</b>	<b>0.40</b>
Australia	0	0.00	0	0.00	2	0.98	2	0.26
New Zealand	1	0.22	0	0.00	0	0.00	1	0.13
<b>Unknown</b>	<b>3</b>	<b>0.65</b>	<b>1</b>	<b>1.10</b>	<b>4</b>	<b>1.95</b>	<b>8</b>	<b>1.05</b>
<b>TOTAL</b>	<b>463</b>	<b>100.00</b>	<b>91</b>	<b>100.00</b>	<b>205</b>	<b>100.00</b>	<b>759</b>	<b>100.00</b>

<sup>1</sup> Membership in the BCDNA is voluntary.

<sup>2</sup> Includes Practising and Non-Practising members.

**Table 2**  
**Dietitians and Nutritionists (Practising BCDNA Members)<sup>1,2</sup> in British Columbia**  
**New Registrants<sup>3</sup>**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>38</b>	<b>86.36</b>	<b>5</b>	<b>83.33</b>	<b>27</b>	<b>93.10</b>	<b>70</b>	<b>88.61</b>
Newfoundland	0	0.00	1	16.67	0	0.00	1	1.27
Prince Edward Island	1	2.27	1	16.67	0	0.00	2	2.53
Nova Scotia	4	9.09	0	0.00	1	3.45	5	6.33
New Brunswick	1	2.27	0	0.00	0	0.00	1	1.27
Quebec	2	4.55	0	0.00	0	0.00	2	2.53
Ontario	4	9.09	0	0.00	3	10.34	7	8.86
Manitoba	1	2.27	0	0.00	1	3.45	2	2.53
Saskatchewan	3	6.82	0	0.00	4	13.79	7	8.86
Alberta	0	0.00	2	33.33	4	13.79	6	7.59
British Columbia	22	50.00	1	16.67	14	48.28	37	46.84
<b>Non-Canadian Subtotal</b>	<b>6</b>	<b>13.64</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>6</b>	<b>7.59</b>
<b>North &amp; Central America Subtotal</b>	<b>3</b>	<b>6.82</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>3.80</b>
Mexico	1	2.27	0	0.00	0	0.00	1	1.27
United States of America	2	4.55	0	0.00	0	0.00	2	2.53
<b>Europe Subtotal</b>	<b>3</b>	<b>6.82</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	<b>3.80</b>
Germany	1	2.27	0	0.00	0	0.00	1	1.27
Netherlands	1	2.27	0	0.00	0	0.00	1	1.27
United Kingdom	1	2.27	0	0.00	0	0.00	1	1.27
<b>Unknown</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>16.67</b>	<b>2</b>	<b>6.90</b>	<b>3</b>	<b>3.80</b>
<b>TOTAL</b>	<b>44</b>	<b>100.00</b>	<b>6</b>	<b>100.00</b>	<b>29</b>	<b>100.00</b>	<b>79</b>	<b>100.00</b>

<sup>1</sup> Membership in the BCDNA is voluntary.

<sup>2</sup> Excludes Non-Practising members.

<sup>3</sup> RDNs who reported B.C. addresses and were practising members in December 1995 and whose date of initial registration was after December 1993.

**Table 3**  
**Dietitians and Nutritionists (BCDNA Members)<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 East Kootenay	5	38.46	2	15.38	1	7.69	0	0.00	2	15.38	10	76.92	3	23.08	0	0.00
2 West Kootenay - Boundary	9	50.00	1	5.56	5	27.78	1	5.56	0	0.00	16	88.89	1	5.56	1	5.56
4 North Okanagan	9	50.00	1	5.56	1	5.56	2	11.11	1	5.56	14	77.78	3	16.67	1	5.56
5 South Okanagan - Similkameen	15	50.00	2	6.67	5	16.67	5	16.67	2	6.67	29	96.67	1	3.33	0	0.00
6 Thompson Valley	12	54.55	2	9.09	1	4.55	2	9.09	3	13.64	20	90.91	1	4.55	1	4.55
7 Upper Fraser Valley	11	50.00	3	13.64	4	18.18	2	9.09	2	9.09	22	100.00	0	0.00	0	0.00
9 South Fraser Valley	27	47.37	7	12.28	5	8.77	8	14.04	6	10.53	53	92.98	3	5.26	1	1.75
10 Simon Fraser	39	55.71	12	17.14	3	4.29	5	7.14	4	5.71	63	90.00	7	10.00	0	0.00
11 Coast Garibaldi	4	57.14	0	0.00	0	0.00	1	14.29	2	28.57	7	100.00	0	0.00	0	0.00
13 Central Vancouver Island	12	42.86	3	10.71	5	17.86	5	17.86	3	10.71	28	100.00	0	0.00	0	0.00
14 North Island/Mid Coast	2	16.67	2	16.67	3	25.00	3	25.00	1	8.33	11	91.67	1	8.33	0	0.00
15 Cariboo	5	71.43	1	14.29	0	0.00	1	14.29	0	0.00	7	100.00	0	0.00	0	0.00
16 North West	5	50.00	0	0.00	3	30.00	1	10.00	1	10.00	10	100.00	0	0.00	0	0.00
17 Peace River - Liard	0	0.00	1	25.00	1	25.00	1	25.00	0	0.00	3	75.00	0	0.00	1	25.00
18 Northern Interior	5	35.71	3	21.43	0	0.00	4	28.57	2	14.29	14	100.00	0	0.00	0	0.00
20 Vancouver	125	52.08	14	5.83	18	7.50	28	11.67	34	14.17	219	91.25	19	7.92	2	0.83
30 Burnaby	15	44.12	4	11.76	3	8.82	3	8.82	6	17.65	31	91.18	3	8.82	0	0.00
40 North Shore	22	46.81	6	12.77	4	8.51	7	14.89	7	14.89	46	97.87	1	2.13	0	0.00
50 Richmond	8	53.33	1	6.67	2	13.33	1	6.67	1	6.67	13	86.67	2	13.33	0	0.00
60 Capital Health	28	30.77	17	18.68	5	5.49	10	10.99	23	25.27	83	91.21	7	7.69	1	1.10
<b>TOTAL</b>	<b>358</b>	<b>47.17</b>	<b>82</b>	<b>10.80</b>	<b>69</b>	<b>9.09</b>	<b>90</b>	<b>11.86</b>	<b>100</b>	<b>13.18</b>	<b>699</b>	<b>92.09</b>	<b>52</b>	<b>6.85</b>	<b>8</b>	<b>1.05</b>

<sup>1</sup> Membership in the BCDNA is voluntary.

<sup>2</sup> Includes Practising and Non-Practising members.

**Table 4**  
**Mean Years since Graduation for Dietitians and Nutritionists (BCDNA Members)<sup>1,2,3</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years		
1 East Kootenay	5	20.40	2	*	1	*	0	*	2	*	10	15.20	3	25.00	0	*	13	17.46
2 West Kootenay - Boundary	9	11.67	1	*	5	20.60	1	*	0	*	16	13.69	1	*	1	*	18	14.72
4 North Okanagan	9	11.44	1	*	1	*	2	*	1	*	14	13.71	3	17.00	1	*	18	13.61
5 South Okanagan - Similkameen	15	10.20	2	*	5	15.40	5	16.00	2	*	29	12.45	1	*	0	*	30	12.53
6 Thompson Valley	12	10.25	2	*	1	*	2	*	3	14.00	20	11.40	1	*	0	*	21	12.57
7 Upper Fraser Valley	11	13.91	3	6.00	4	15.50	2	*	2	*	22	13.00	0	*	0	*	22	13.00
9 South Fraser Valley	27	10.89	7	14.00	5	17.00	8	21.00	6	14.83	53	13.85	3	15.00	0	*	56	13.91
10 Simon Fraser	39	11.72	12	15.00	3	19.33	5	18.60	4	9.75	63	13.13	7	30.71	0	*	70	14.89
11 Coast Garibaldi	4	9.75	0	*	0	*	1	*	2	*	7	14.57	0	*	0	*	7	14.57
13 Central Vancouver Island	12	16.83	3	26.33	5	20.20	5	19.20	3	14.67	28	18.64	0	*	0	*	28	18.64
14 North Island/Mid Coast	2	*	2	*	3	13.00	3	18.00	1	*	11	16.91	1	*	0	*	12	15.92
15 Cariboo	5	11.40	1	*	0	*	1	*	0	*	7	9.43	0	*	0	*	7	9.43
16 North West	5	13.00	0	*	3	15.33	1	*	1	*	10	12.60	0	*	0	*	10	12.60
17 Peace River - Liard	0	*	1	*	1	*	1	*	0	*	3	14.00	0	*	0	*	3	14.00
18 Northern Interior	5	12.80	3	27.00	0	*	4	12.00	2	*	14	16.29	0	*	0	*	14	16.29
20 Vancouver	125	14.19	14	15.57	18	17.17	28	13.61	34	11.18	219	13.98	19	19.11	1	*	239	14.35
30 Burnaby	15	7.73	4	12.50	3	20.33	3	18.00	6	14.33	31	11.84	3	24.67	0	*	34	12.97
40 North Shore	20	16.10	6	16.50	4	23.25	7	17.71	7	22.57	44	18.09	1	*	0	*	45	18.16
50 Richmond	8	14.38	1	*	2	*	1	*	1	*	13	14.92	2	*	0	*	15	14.53
60 Capital Health	28	18.11	17	16.88	5	15.60	10	19.60	23	17.61	83	17.75	7	27.86	1	*	91	18.35
TOTAL	356	13.42	82	15.76	69	17.10	90	15.98	100	14.75	697	14.58	52	21.92	4	8.25	753	15.05

<sup>1</sup> Membership in the BCDNA is voluntary.

<sup>2</sup> Includes Practising and Non-Practising members.

<sup>3</sup> Excludes 6 RDNs with missing or invalid year of graduation

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Dietitians and Nutritionists (BCDNA Members)<sup>1,2,3</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	5	14.60	2	*	1	*	0	*	2	*	10	8.40	2	*	0	*	12	8.42
2 West Kootenay - Boundary	9	7.22	1	*	3	9.00	1	*	0	*	14	6.93	1	*	1	*	16	6.75
4 North Okanagan	9	6.56	1	*	1	*	2	*	1	*	14	7.43	3	5.33	1	*	18	6.72
5 South Okanagan - Similkameen	15	8.20	2	*	5	3.80	5	9.40	2	*	29	7.76	1	*	0	*	30	7.90
6 Thompson Valley	12	8.08	2	*	1	*	2	*	3	10.00	20	7.80	1	*	1	*	22	8.36
7 Upper Fraser Valley	11	10.45	3	3.67	4	7.75	2	*	2	*	22	8.50	0	*	0	*	22	8.50
9 South Fraser Valley	27	7.11	6	8.67	5	10.40	8	10.88	6	11.83	52	8.73	3	3.67	1	*	56	8.54
10 Simon Fraser	39	8.46	12	10.83	3	5.67	5	8.60	4	6.25	63	8.65	7	18.71	0	*	70	9.66
11 Coast Garibaldi	3	2.00	0	*	0	*	1	*	2	*	6	7.67	0	*	0	*	6	7.67
13 Central Vancouver Island	11	10.00	3	11.33	5	6.20	5	10.40	3	11.67	27	9.70	0	*	0	*	27	9.70
14 North Island/Mid Coast	2	*	2	*	2	*	3	15.00	1	*	10	8.10	1	*	0	*	11	7.64
15 Cariboo	4	6.50	1	*	0	*	1	*	0	*	6	4.67	0	*	0	*	6	4.67
16 North West	4	6.75	0	*	3	4.33	1	*	1	*	9	5.89	0	*	0	*	9	5.89
17 Peace River - Liard	0	*	1	*	1	*	1	*	0	*	3	8.67	0	*	1	*	4	6.75
18 Northern Interior	5	8.60	3	21.00	0	*	4	6.50	2	*	14	10.43	0	*	0	*	14	10.43
20 Vancouver	123	10.66	14	8.43	17	8.59	28	7.82	34	6.47	216	9.32	18	7.94	2	*	236	9.15
30 Burnaby	15	5.67	4	8.50	3	10.67	3	14.33	6	9.00	31	8.00	3	13.33	0	*	34	8.47
40 North Shore	20	13.05	6	9.50	4	13.75	7	7.57	7	14.43	44	11.98	1	*	0	*	45	11.96
50 Richmond	8	12.38	1	*	2	*	1	*	1	*	13	9.85	2	*	0	*	15	8.67
60 Capital Health	28	11.82	16	10.13	5	6.20	10	15.10	23	8.22	82	10.54	7	16.29	1	*	90	10.87
TOTAL	350	9.61	80	9.48	65	7.42	90	9.24	100	8.38	685	9.16	50	10.58	8	3.50	743	9.20

<sup>1</sup> Membership in the B.C. Dietitians and Nutritionists Association (BCDNA) is voluntary.

<sup>2</sup> Includes Practising and Non-Practising members.

<sup>3</sup> Excludes 16 RDNs with invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3.



## V Psychological Services



## Psychologists

**Definition:** Psychologists register with the College of Psychologists of British Columbia (CPBC) with either "practising" or "non-practising" status.<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Members with practising status may offer psychological services, but registration with the College does not necessarily imply employment in the field. 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. Data in the tables are presented based on employment address when psychologists report employment in psychology and employment address is available. In 1995, 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. Place of graduation for psychologists refers to the place where the highest degree was obtained (i.e. if Master's and PhD degrees are completed at different universities, the University granting the PhD is used to record place of graduation).

**Date of Record:** December 1995.

**Source of Data:** The College of Psychologists of British Columbia (CPBC).

**Discussion:**

Figure 1 and Table 1 present location of psychologists by place of graduation. Table 2 presents this same information for new registrants (registrants to the CPBC between December 1993 and December 1995), and Figure 2 compares new registrants by place of graduation with the total registrants. Figure 1 suggests that graduates from different areas have a fairly even distribution across the province. Figure 2 suggests some small differences in the proportional representation of graduates of different areas between the new registrants and the total group, with the proportion of Other Canada and Other Country graduates higher and that of B.C. graduates lower in the new registrant group.

Tables 1 and 2 show that the proportion of B.C. graduates is much smaller in the new registrants than in the total group (28.24% vs. 37.65%, respectively). Conversely, the percentage of Other Canada graduates is much larger among the new registrants than in the overall group (40.00% vs. 33.21%). Graduates from Newfoundland, Ontario, Saskatchewan and Alberta all contribute to this difference as they show higher proportions of graduates in the new registrants than in the total group (1.18% vs. 0.36%, 17.65% vs. 14.75%, 5.88% vs. 2.52% and 10.59% vs. 9.23%, respectively). Foreign graduates from both the U.S. and Asia also appear in higher proportions in the new registrants' group compared to the total group (24.71% vs. 22.90% and 4.71% vs. 0.48% respectively).

Tables 1 and 2 show considerable variation when looking at the provincial distribution of graduates. Both Vancouver and District and Other B.C. have much smaller proportions of B.C. graduates in the new registrants than in the total group (29.09% vs. 39.47% and 17.65% vs. 32.70%, respectively), while the Capital region shows similar proportions of B.C. graduates in both groups (38.46% of new registrants and 36.36% of the total group). Other Canada graduates are located in Other B.C. in a much higher proportion in the new registrants than in the total group (52.94% vs. 37.11%). Other Canada graduates also occur in higher proportions in the new registrants than in the total group in the other two locations in the province but to a lesser degree (36.36% vs. 31.58% in Vancouver and District and 38.46% vs. 34.97% in Capital). Differences in the provincial distribution of graduates from the individual provinces and from

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<sup>1</sup> The *Psychologists Act, 1979* mandates registration with the College of Psychologists of British Columbia in order to practise as a psychologist in B.C.

foreign countries also exist, but the total number of new registrants (85) limits the ability to draw definite conclusions.

A table looking at psychologists who reported employment in psychology was produced, but is not printed here as the distributions were quite similar to those seen in Table 1. Most of the differences between the total group and those who reported employment in psychology were less than 1%, which is not unexpected given the relatively small size of this group (834 total). This table is available upon request.

Table 3 presents location of psychologists by health region and by place of graduation, with graduates from the provinces east of Ontario aggregated into the category "Other Canada", and foreign graduates aggregated into the category "Other Country". B.C. graduates make up 37.37% of psychologists in the Vancouver health region, almost identical to the provincial average for B.C. graduates (37.65%). In contrast, B.C. graduates are 53.85% of psychologists in Burnaby, a neighbouring health region. Compared to Burnaby, Vancouver has a higher proportion of psychologists coming from Alberta, Saskatchewan & Manitoba, Ontario and Other Country, and a slightly lower percentage coming from Other Canada. The small numbers in many of the cells in Table 3 make more extensive comparisons difficult. The same is true for the remainder of the tables (Tables 4 through 6).

Table 4 uses the same format, this time presenting mean years since graduation. Looking just at the provincial totals, B.C. graduates have the lowest mean years since graduation at 14.29, and Other Country graduates the highest at 19.74 years. The overall provincial average for years since graduation is 16.58 years. The range in the individual health regions, looking only at health regions with at least ten psychologists, from 13.20 years in Simon Fraser to 19.73 years in West Kootenay-Boundary. It should be kept in mind that mean years since graduation refers to graduation with the highest degree achieved.

Table 5 looks at mean years since first registration in B.C. by health region and by place of graduation. Saskatchewan & Manitoba graduates show the lowest mean years since first registration, at 9.65 years, and Other Canada graduates the highest at 13.03 years. Looking only at health regions with at least ten psychologists, the range in the individual health regions is from 9.67 years in Richmond to 16.36 years in West Kootenay-Boundary.

Table 6 illustrates mean age of psychologists, again by health region and by place of graduation. Ontario and Saskatchewan & Manitoba graduates show the lowest mean ages, at 47.31 years and 47.65 years respectively. Other Canada graduates show the highest mean age at 51.91 years. The range in mean age in the individual health regions, comparing only health regions with at least ten psychologists, is from 45.93 years in Simon Fraser to 52.13 years in North Shore.

Figure 1

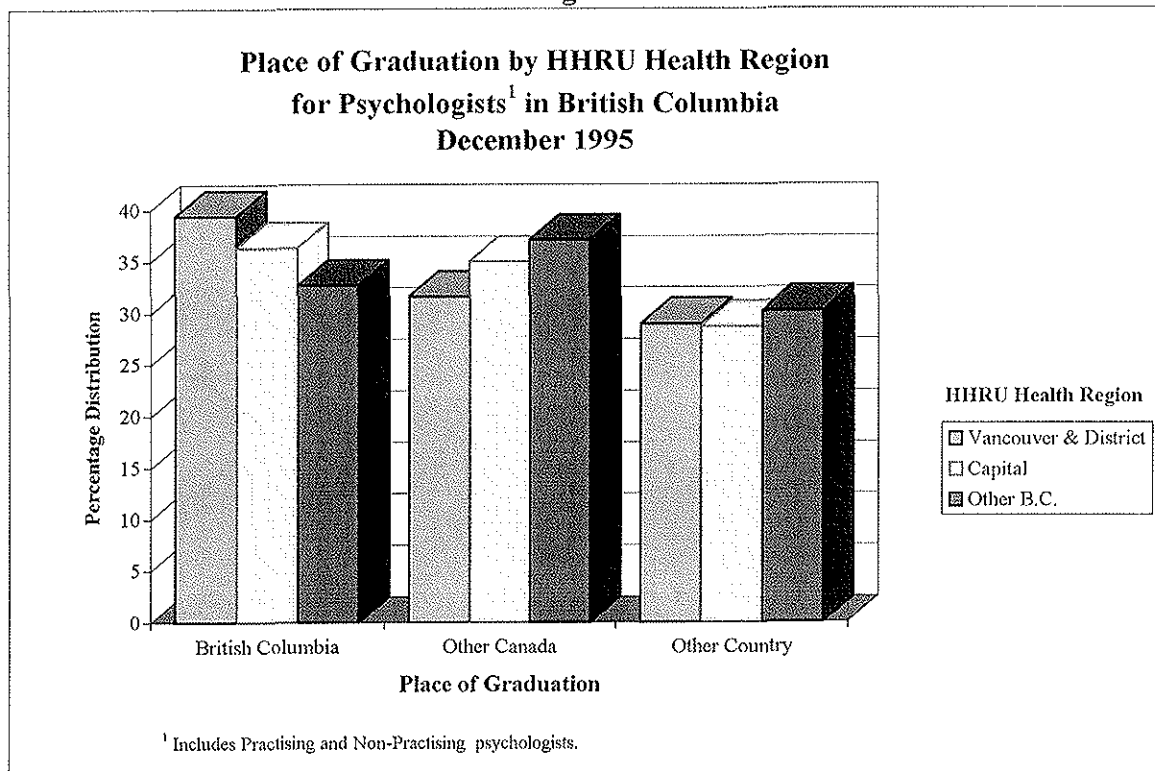
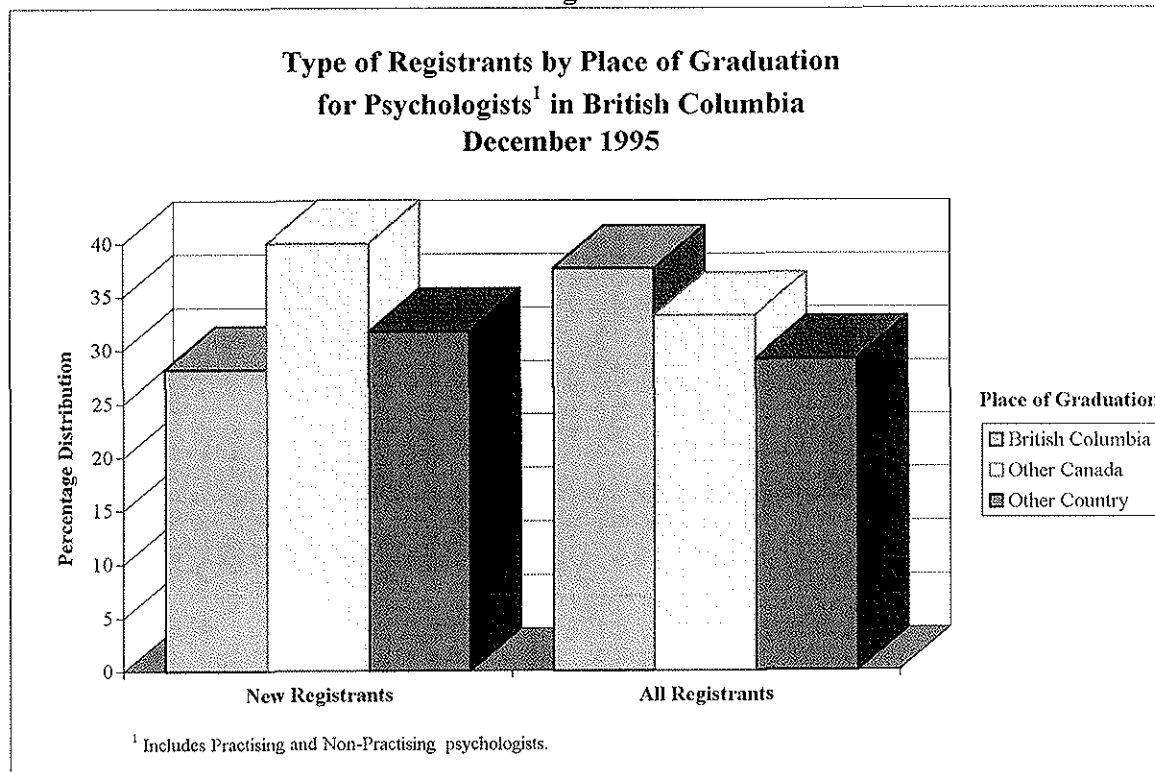


Figure 2



**Table 1**  
**Psychologists<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>378</b>	<b>71.05</b>	<b>102</b>	<b>71.33</b>	<b>111</b>	<b>69.81</b>	<b>591</b>	<b>70.86</b>
Newfoundland	2	0.38	1	0.70	0	0.00	3	0.36
Nova Scotia	2	0.38	0	0.00	2	1.26	4	0.48
New Brunswick	1	0.19	0	0.00	2	1.26	3	0.36
Quebec	23	4.32	2	1.40	2	1.26	27	3.24
Ontario	69	12.97	25	17.48	29	18.24	123	14.75
Manitoba	11	2.07	4	2.80	4	2.52	19	2.28
Saskatchewan	13	2.44	3	2.10	5	3.14	21	2.52
Alberta	47	8.83	15	10.49	15	9.43	77	9.23
British Columbia	210	39.47	52	36.36	52	32.70	314	37.65
<b>Non-Canadian Subtotal</b>	<b>154</b>	<b>28.95</b>	<b>41</b>	<b>28.67</b>	<b>48</b>	<b>30.19</b>	<b>243</b>	<b>29.14</b>
<b>North &amp; Central America Subtotal</b>	<b>121</b>	<b>22.74</b>	<b>35</b>	<b>24.48</b>	<b>37</b>	<b>23.27</b>	<b>193</b>	<b>23.14</b>
Mexico	2	0.38	0	0.00	0	0.00	2	0.24
United States of America	119	22.37	35	24.48	37	23.27	191	22.90
<b>South America Subtotal</b>	<b>1</b>	<b>0.19</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.12</b>
Chile	1	0.19	0	0.00	0	0.00	1	0.12
<b>Europe Subtotal</b>	<b>25</b>	<b>4.70</b>	<b>6</b>	<b>4.20</b>	<b>9</b>	<b>5.66</b>	<b>40</b>	<b>4.80</b>
Austria	1	0.19	0	0.00	0	0.00	1	0.12
Czechoslovakia <sup>2</sup>	3	0.56	0	0.00	1	0.63	4	0.48
Germany	2	0.38	0	0.00	0	0.00	2	0.24
Irish Republic (Eire)	0	0.00	0	0.00	1	0.63	1	0.12
Italy	0	0.00	0	0.00	1	0.63	1	0.12
Netherlands	1	0.19	0	0.00	0	0.00	1	0.12
Poland	1	0.19	0	0.00	1	0.63	2	0.24
Russia	1	0.19	0	0.00	0	0.00	1	0.12
Switzerland	1	0.19	0	0.00	0	0.00	1	0.12
United Kingdom	15	2.82	6	4.20	5	3.14	26	3.12
<b>Asia Subtotal</b>	<b>3</b>	<b>0.56</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.63</b>	<b>4</b>	<b>0.48</b>
Hong Kong	1	0.19	0	0.00	0	0.00	1	0.12
India	1	0.19	0	0.00	1	0.63	2	0.24
Philippines	1	0.19	0	0.00	0	0.00	1	0.12
<b>Africa Subtotal</b>	<b>2</b>	<b>0.38</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.24</b>
South Africa	2	0.38	0	0.00	0	0.00	2	0.24
<b>Oceania Subtotal</b>	<b>2</b>	<b>0.38</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.63</b>	<b>3</b>	<b>0.36</b>
Australia	1	0.19	0	0.00	0	0.00	1	0.12
New Zealand	1	0.19	0	0.00	1	0.63	2	0.24
<b>TOTAL</b>	<b>532</b>	<b>100.00</b>	<b>143</b>	<b>100.00</b>	<b>159</b>	<b>100.00</b>	<b>834</b>	<b>100.00</b>

<sup>1</sup> Includes Practising and Non-Practising psychologists.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Psychologists<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>36</b>	<b>65.45</b>	<b>10</b>	<b>76.92</b>	<b>12</b>	<b>70.59</b>	<b>58</b>	<b>68.24</b>
Newfoundland	1	1.82	0	0.00	0	0.00	1	1.18
Quebec	1	1.82	1	7.69	1	5.88	3	3.53
Ontario	11	20.00	2	15.38	2	11.76	15	17.65
Manitoba	0	0.00	0	0.00	1	5.88	1	1.18
Saskatchewan	3	5.45	0	0.00	2	11.76	5	5.88
Alberta	4	7.27	2	15.38	3	17.65	9	10.59
British Columbia	16	29.09	5	38.46	3	17.65	24	28.24
<b>Non-Canadian Subtotal</b>	<b>19</b>	<b>34.55</b>	<b>3</b>	<b>23.08</b>	<b>5</b>	<b>29.41</b>	<b>27</b>	<b>31.76</b>
<b>North &amp; Central America Subtotal</b>	<b>15</b>	<b>27.27</b>	<b>2</b>	<b>15.38</b>	<b>4</b>	<b>23.53</b>	<b>21</b>	<b>24.71</b>
United States of America	15	27.27	2	15.38	4	23.53	21	24.71
<b>Europe Subtotal</b>	<b>2</b>	<b>3.64</b>	<b>1</b>	<b>7.69</b>	<b>1</b>	<b>5.88</b>	<b>4</b>	<b>4.71</b>
Czechoslovakia <sup>3</sup>	0	0.00	0	0.00	1	5.88	1	1.18
Russia	1	1.82	0	0.00	0	0.00	1	1.18
United Kingdom	1	1.82	1	7.69	0	0.00	2	2.35
<b>Asia Subtotal</b>	<b>2</b>	<b>3.64</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>2.35</b>
Hong Kong	1	1.82	0	0.00	0	0.00	1	1.18
India	1	1.82	0	0.00	0	0.00	1	1.18
<b>TOTAL</b>	<b>55</b>	<b>100.00</b>	<b>13</b>	<b>100.00</b>	<b>17</b>	<b>100.00</b>	<b>85</b>	<b>100.00</b>

<sup>1</sup> Includes Practising and Non-Practising psychologists.

<sup>2</sup> Psychologists who reported B.C. addresses and were registered in December 1995 and whose date of initial registration was after December 1993.

<sup>3</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 3**  
**Psychologists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan &		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
					Manitoba											
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1 East Kootenay	3	37.50	2	25.00	0	0.00	0	0.00	0	0.00	5	62.50	3	37.50	8	100.00
2 West Kootenay - Boundary	4	36.36	0	0.00	0	0.00	5	45.45	0	0.00	9	81.82	2	18.18	11	100.00
4 North Okanagan	2	25.00	0	0.00	1	12.50	1	12.50	0	0.00	4	50.00	4	50.00	8	100.00
5 South Okanagan - Similkameen	2	9.52	3	14.29	2	9.52	7	33.33	0	0.00	14	66.67	7	33.33	21	100.00
6 Thompson Valley	4	44.44	1	11.11	1	11.11	1	11.11	1	11.11	8	88.89	1	11.11	9	100.00
7 Upper Fraser Valley	10	37.04	1	3.70	2	7.41	2	7.41	3	11.11	18	66.67	9	33.33	27	100.00
9 South Fraser Valley	25	39.68	6	9.52	4	6.35	5	7.94	3	4.76	43	68.25	20	31.75	63	100.00
10 Simon Fraser	26	47.27	2	3.64	4	7.27	4	7.27	6	10.91	42	76.36	13	23.64	55	100.00
11 Coast Garibaldi	3	50.00	0	0.00	1	16.67	0	0.00	0	0.00	4	66.67	2	33.33	6	100.00
13 Central Vancouver Island	9	29.03	2	6.45	1	3.23	8	25.81	1	3.23	21	67.74	10	32.26	31	100.00
14 North Island/Mid Coast	7	50.00	2	14.29	0	0.00	3	21.43	0	0.00	12	85.71	2	14.29	14	100.00
15 Cariboo	2	50.00	0	0.00	0	0.00	0	0.00	0	0.00	2	50.00	2	50.00	4	100.00
16 North West	1	16.67	1	16.67	0	0.00	1	16.67	0	0.00	3	50.00	3	50.00	6	100.00
17 Peace River - Liard	1	50.00	0	0.00	0	0.00	0	0.00	1	50.00	2	100.00	0	0.00	2	100.00
18 Northern Interior	4	33.33	3	25.00	1	8.33	1	8.33	0	0.00	9	75.00	3	25.00	12	100.00
20 Vancouver	108	37.37	26	9.00	12	4.15	44	15.22	12	4.15	202	69.90	87	30.10	289	100.00
30 Burnaby	28	53.85	2	3.85	1	1.92	5	9.62	4	7.69	40	76.92	12	23.08	52	100.00
40 North Shore	15	32.61	7	15.22	1	2.17	5	10.87	3	6.52	31	67.39	15	32.61	46	100.00
50 Richmond	8	29.63	4	14.81	2	7.41	6	22.22	0	0.00	20	74.07	7	25.93	27	100.00
60 Capital Health	52	36.36	15	10.49	7	4.90	25	17.48	3	2.10	102	71.33	41	28.67	143	100.00
TOTAL	314	37.65	77	9.23	40	4.80	123	14.75	37	4.44	591	70.86	243	29.14	834	100.00

<sup>1</sup> Includes Practising and Non-Practising psychologists.

Table 4  
Mean Years since Highest Degree for Psychologists<sup>1</sup> in British Columbia  
by Health Region by Place of Graduation  
December 1995

Health Region	Place of Graduation														TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	3	20.33	2	*	0	*	0	*	0	*	5	16.80	3	22.00	8	18.75
2 West Kootenay - Boundary	4	17.25	0	*	0	*	5	23.80	0	*	9	20.89	2	*	11	19.73
4 North Okanagan	2	*	0	*	1	*	1	*	0	*	4	16.75	4	23.50	8	20.13
5 South Okanagan - Similkameen	2	*	3	7.00	2	*	7	19.14	0	*	14	16.50	7	20.29	21	17.76
6 Thompson Valley	4	20.75	1	*	1	*	1	*	1	*	8	19.00	1	*	9	19.22
7 Upper Fraser Valley	10	14.40	1	*	2	*	2	*	3	18.00	18	14.33	9	21.11	27	16.59
9 South Fraser Valley	25	15.40	6	20.00	4	15.00	5	21.40	3	16.67	43	16.79	20	18.95	63	17.48
10 Simon Fraser	26	14.08	2	*	4	9.00	4	7.25	6	18.00	42	13.24	13	13.08	55	13.20
11 Coast Garibaldi	3	20.00	0	*	1	*	0	*	0	*	4	21.50	2	*	6	22.50
13 Central Vancouver Island	9	14.56	2	*	1	*	8	19.88	1	*	21	16.00	10	14.30	31	15.45
14 North Island/Mid Coast	7	14.00	2	*	0	*	3	27.00	0	*	12	18.92	2	*	14	19.29
15 Cariboo	2	*	0	*	0	*	0	*	0	*	2	*	2	*	4	22.75
16 North West	1	*	1	*	0	*	1	*	0	*	3	15.33	3	26.33	6	20.83
17 Peace River - Liard	1	*	0	*	0	*	0	*	1	*	2	*	0	*	2	*
18 Northern Interior	4	13.00	3	15.33	1	*	1	*	0	*	9	13.56	3	17.00	12	14.42
20 Vancouver	108	12.86	26	18.54	12	16.67	44	15.30	12	16.00	202	14.53	87	19.22	289	15.94
30 Burnaby	28	13.61	2	*	1	*	5	13.20	4	21.75	40	15.25	12	17.67	52	15.81
40 North Shore	15	18.00	7	18.43	1	*	5	13.80	3	25.00	31	18.26	15	21.33	46	19.26
50 Richmond	8	12.38	4	9.25	2	*	6	16.83	0	*	20	13.00	7	18.43	27	14.41
60 Capital Health	52	14.04	15	17.00	7	14.71	25	14.76	3	17.00	102	14.78	41	23.37	143	17.24
TOTAL	314	14.29	77	17.04	40	14.73	123	16.20	37	17.68	591	15.29	243	19.74	834	16.58

<sup>1</sup> Includes Practising and Non-Practising psychologists.

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Psychologists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	3	16.00	2	*	0	*	0	*	0	*	5	10.80	3	15.67	8	12.63
2 West Kootenay - Boundary	4	16.25	0	*	0	*	5	16.80	0	*	9	16.56	2	*	11	16.36
4 North Okanagan	2	*	0	*	1	*	1	*	0	*	4	13.00	4	8.50	8	10.75
5 South Okanagan - Similkameen	2	*	3	5.00	2	*	7	11.57	0	*	14	11.07	7	14.86	21	12.33
6 Thompson Valley	4	16.50	1	*	1	*	1	*	1	*	8	13.38	1	*	9	13.89
7 Upper Fraser Valley	10	12.00	1	*	2	*	2	*	3	16.67	18	11.83	9	12.56	27	12.07
9 South Fraser Valley	25	12.16	6	10.50	4	10.50	5	14.60	3	15.00	43	12.26	20	12.20	63	12.24
10 Simon Fraser	26	12.27	2	*	4	7.50	4	5.25	6	13.17	42	11.02	13	8.92	55	10.53
11 Coast Garibaldi	3	11.67	0	*	1	*	0	*	0	*	4	12.50	2	*	6	14.33
13 Central Vancouver Island	9	11.56	2	*	1	*	8	10.63	1	*	21	10.33	10	9.10	31	9.94
14 North Island/Mid Coast	7	13.29	2	*	0	*	3	12.00	0	*	12	13.42	2	*	14	13.86
15 Cariboo	2	*	0	*	0	*	0	*	0	*	2	*	2	*	4	17.25
16 North West	1	*	1	*	0	*	1	*	0	*	3	12.33	3	17.67	6	15.00
17 Peace River - Liard	1	*	0	*	0	*	0	*	1	*	2	*	0	*	2	*
18 Northern Interior	4	6.25	3	10.67	1	*	1	*	0	*	9	8.33	3	14.33	12	9.83
20 Vancouver	108	11.16	26	13.15	12	12.08	44	10.91	12	13.50	202	11.55	87	12.63	289	11.88
30 Burnaby	28	11.96	2	*	1	*	5	9.80	4	11.00	40	11.30	12	9.83	52	10.96
40 North Shore	15	14.67	7	10.14	1	*	5	9.60	3	16.00	31	13.00	15	14.93	46	13.63
50 Richmond	8	10.00	4	5.25	2	*	6	7.33	0	*	20	7.80	7	15.00	27	9.67
60 Capital Health	52	13.44	15	11.87	7	8.29	25	9.88	3	11.00	102	11.91	41	13.78	143	12.45
TOTAL	314	12.29	77	11.05	40	9.65	123	10.65	37	13.03	591	11.65	243	12.79	834	11.98

<sup>1</sup> Includes Practising and Non-Practising psychologists.

\* Indicates that the base for the mean is less than 3.



**Table 6**  
**Mean Age of Psychologists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	3	54.00	2	*	0	*	0	*	0	*	5	51.80	3	56.00	8	53.38
2 West Kootenay - Boundary	4	45.50	0	*	0	*	5	50.80	0	*	9	48.44	2	*	11	48.36
4 North Okanagan	2	*	0	*	1	*	1	*	0	*	4	47.25	4	56.00	8	51.63
5 South Okanagan - Similkameen	2	*	3	39.33	2	*	7	47.00	0	*	14	46.36	7	56.43	21	49.71
6 Thompson Valley	4	51.50	1	*	1	*	1	*	1	*	8	50.63	1	*	9	50.56
7 Upper Fraser Valley	10	46.80	1	*	2	*	2	*	3	48.33	18	47.22	9	58.33	27	50.93
9 South Fraser Valley	25	48.20	6	54.83	4	47.25	5	53.20	3	46.00	43	49.47	20	49.70	63	49.54
10 Simon Fraser	26	46.96	2	*	4	40.25	4	41.00	6	47.17	42	45.52	13	47.23	55	45.93
11 Coast Garibaldi	3	51.00	0	*	1	*	0	*	0	*	4	51.50	2	*	6	51.50
13 Central Vancouver Island	9	47.44	2	*	1	*	8	51.63	1	*	21	49.14	10	52.20	31	50.13
14 North Island/Mid Coast	7	46.29	2	*	0	*	3	54.67	0	*	12	49.83	2	*	14	50.36
15 Cariboo	2	*	0	*	0	*	0	*	0	*	2	*	2	*	4	52.50
16 North West	1	*	1	*	0	*	1	*	0	*	3	44.33	3	57.00	6	50.67
17 Peace River - Liard	1	*	0	*	0	*	0	*	1	*	2	*	0	*	2	*
18 Northern Interior	4	47.00	3	47.33	1	*	1	*	0	*	9	46.67	3	49.00	12	47.25
20 Vancouver	108	47.53	26	51.23	12	47.17	44	46.16	12	48.58	202	47.75	87	50.71	289	48.64
30 Burnaby	28	48.43	2	*	1	*	5	41.80	4	51.75	40	48.65	12	47.42	52	48.37
40 North Shore	15	51.60	7	52.86	1	*	5	43.80	3	55.00	31	50.87	15	54.73	46	52.13
50 Richmond	8	48.63	4	45.25	2	*	6	50.67	0	*	20	48.05	7	49.29	27	48.37
60 Capital Health	52	51.13	15	48.87	7	53.14	25	47.44	3	51.33	102	50.04	41	54.54	143	51.33
TOTAL	314	48.54	77	50.25	40	47.65	123	47.31	37	48.81	591	48.46	243	51.91	834	49.47

<sup>1</sup> Includes Practising and Non-Practising psychologists.

\* Indicates that the base for the mean is less than 5.

## VI Rehabilitation Services

## Massage Therapists

**Definition:** Massage Therapists (MTs) register with the College of Massage Therapists of British Columbia (CMTBC) with "full" or "inactive" registration status.<sup>1</sup> Those included in this report were full registrants and had a British Columbia address at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Registration with the CMTBC does not necessarily imply employment in the field. Data in the tables are presented based on employment address when the membership status is full registrant, when employment in massage therapy is reported, and when employment address is available. In 1995, employment address was available for 92% of full registrant MTs employed in massage therapy. Home address is used for the remainder, as well as for MTs with full registrant status who are not employed in massage therapy. MTs with inactive registrant status are not included in the figures or tables this year.<sup>2</sup>

**Date of Record:** December 1995.

**Source of Data:** The College of Massage Therapists of British Columbia (CMTBC).

### Discussion:

The number of MTs with unknown place of graduation should be kept in mind when using all of these tables; 2.24% of the total group, 1.50% of the new registrants and 1.05% of those employed in massage therapy are unknown in terms of place of graduation. Figure 1 and Table 1 show the place of graduation for "full registrant" MTs. Table 2 shows this same information for new registrants (registrants to the APMPBC and/or the CMTBC between December 1993 and December 1995)<sup>3</sup> and Figure 2 compares new registrants by place of graduation with the total registration group. Figures 1 and 2 both demonstrate the relative lack of graduates from outside Canada. Figure 1 indicates B.C. graduates are most likely to locate in Vancouver and District, while graduates from Other Canada are more likely to locate in Capital. Figure 2 indicates that a growing percentage of new registrants received their training in B.C.

Table 1 indicates B.C. graduates are 60.83% of the total group of MTs, and 34.26% are Ontario graduates, with a minimal number from other provinces in Canada. There are only nineteen MT registrants to the CMTBC who are graduates of foreign schools, representing 2.03% of the total group. The new registrant table (Table 2), shows Canadian graduates coming only from B.C. and Ontario. B.C. graduates represent 73.00% of the new registrant total and Ontario graduates 23.50%. The number of new registrants (200) is also relatively high given the number of registrants in the total group (937).

The distribution of MTs across the province shows that while 60.83% of the total group are B.C. graduates, this proportion is 70.58% in Vancouver and District, probably at least in part due to the presence of one of the two training facilities for MTs in B.C. in Vancouver. Among the new registrants, this percentage is even higher at 78.17%. In contrast, in Capital in Table 1, only 41.80% are B.C. graduates, while 48.36% in this area graduated in Ontario and 4.92% graduated in other countries. New registrants located in Capital also show a relatively low representation of B.C. graduates (54.55%), though it should be noted there are only 11 new registrants located in Capital.

<sup>1</sup> The *Health Professions Act, 1990* mandates registration with the CMTBC in order to practise as a MT in B.C.

<sup>2</sup> In previous years, inactive registrants were not required to register each year, so the count of their numbers is not necessarily accurate.

<sup>3</sup> In December, 1994, the College of Massage Therapists of BC (CMTBC) replaced the Association of Physiotherapists and Massage Practitioners of BC (APMPBC) as the regulatory body for massage therapists.

A separate table on full registrant MTs who reported employment in massage therapy was also produced this year. This table is not included as it provided no additional information since the distributions were all within one or two percentage points of those seen in Table 1. This table is available upon request.

Table 3 expands the information provided in Table 1, disaggregating location into health regions; graduates from the provinces east of Ontario are aggregated into the category "Other Canada", and foreign graduates are aggregated into the category "Other Country". Peace River, with five MTs, is the only health region composed entirely of B.C. graduates. The average proportion of B.C. graduates in the individual health regions is 60.83%. Looking only at health regions with more than ten MTs total, the range in proportion of B.C. graduates is from 33.33% in East Kootenay to 85.19% in Burnaby. Ontario graduates have the strongest representation in East Kootenay, with 66.67% of the MTs in that health region. In contrast, Ontario graduates are only 7.41% of MTs in Burnaby.

Table 4 uses the same format as Table 3, this time looking at mean years since graduation. This table shows a clear difference among MTs with different places of graduation; B.C.-trained MTs graduated, on average, 4.19 years ago, while those trained in Ontario have a mean years since graduation of 9.70 years, and graduates from other countries show a mean of 22.81 years. These discrepancies may be due in part to the recent growth in the MT registration group, and also in part to the recent expansion of B.C. massage therapy training programs (see the *ROLLCALL* series for more information on both these numbers). The range in the mean in the individual health regions is from 3.74 years in Richmond to 9.14 years in West Kootenay-Boundary. Tables on mean years since first registration and mean age were also produced but are not presented here as they do not offer a great deal of additional information; the tables are, however, available upon request.

Figure 1

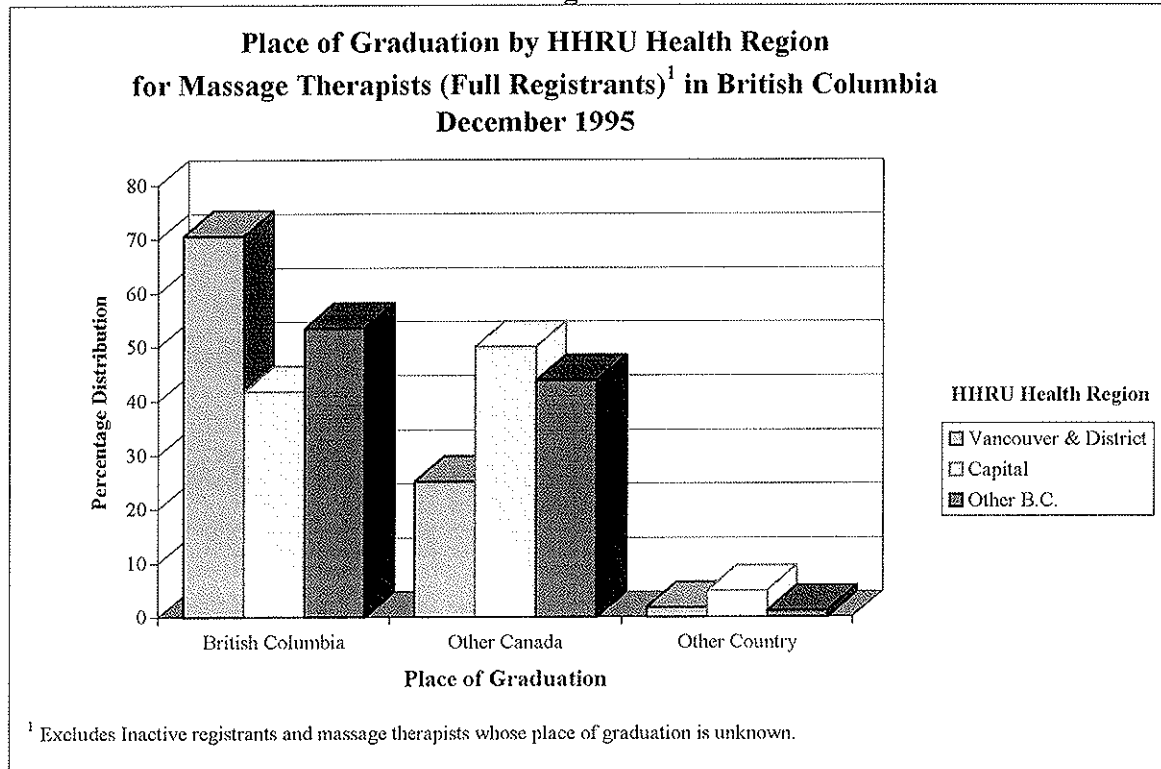
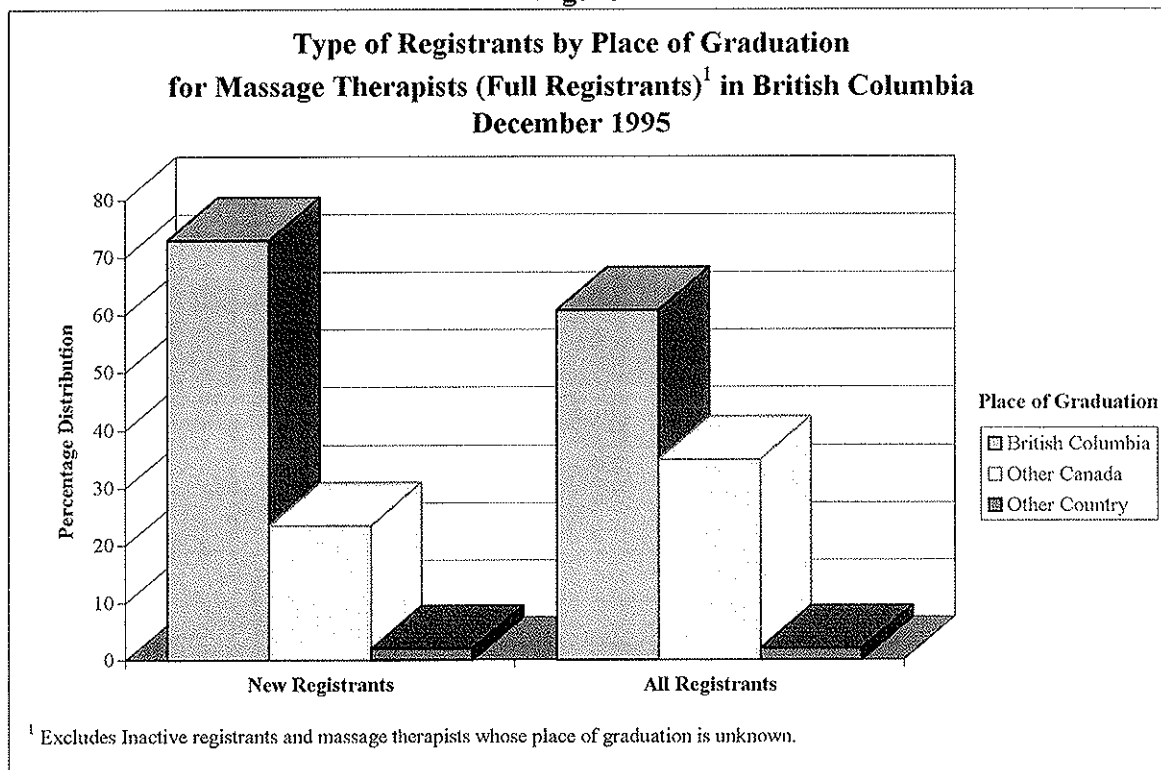


Figure 2



**Table 1**  
**Massage Therapists (Full Registrants)<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>465</b>	<b>95.68</b>	<b>112</b>	<b>91.80</b>	<b>320</b>	<b>97.26</b>	<b>897</b>	<b>95.73</b>
Quebec	0	0.00	1	0.82	0	0.00	1	0.11
Ontario	120	24.69	59	48.36	142	43.16	321	34.26
Manitoba	1	0.21	0	0.00	1	0.30	2	0.21
Saskatchewan	1	0.21	0	0.00	0	0.00	1	0.11
Alberta	0	0.00	1	0.82	1	0.30	2	0.21
British Columbia	343	70.58	51	41.80	176	53.50	570	60.83
<b>Non-Canadian Subtotal</b>	<b>9</b>	<b>1.85</b>	<b>6</b>	<b>4.92</b>	<b>4</b>	<b>1.22</b>	<b>19</b>	<b>2.03</b>
<b>North &amp; Central America Subtotal</b>	<b>1</b>	<b>0.21</b>	<b>2</b>	<b>1.64</b>	<b>1</b>	<b>0.30</b>	<b>4</b>	<b>0.43</b>
United States of America	1	0.21	2	1.64	1	0.30	4	0.43
<b>South America Subtotal</b>	<b>1</b>	<b>0.21</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.11</b>
Venezuela	1	0.21	0	0.00	0	0.00	1	0.11
<b>Europe Subtotal</b>	<b>7</b>	<b>1.44</b>	<b>3</b>	<b>2.46</b>	<b>3</b>	<b>0.91</b>	<b>13</b>	<b>1.39</b>
Germany	0	0.00	1	0.82	1	0.30	2	0.21
Poland	5	1.03	0	0.00	1	0.30	6	0.64
Sweden	1	0.21	0	0.00	0	0.00	1	0.11
United Kingdom	1	0.21	2	1.64	1	0.30	4	0.43
<b>Africa Subtotal</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.82</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>0.11</b>
South Africa	0	0.00	1	0.82	0	0.00	1	0.11
<b>Unknown</b>	<b>12</b>	<b>2.47</b>	<b>4</b>	<b>3.28</b>	<b>5</b>	<b>1.52</b>	<b>21</b>	<b>2.24</b>
<b>TOTAL</b>	<b>486</b>	<b>100.00</b>	<b>122</b>	<b>100.00</b>	<b>329</b>	<b>100.00</b>	<b>937</b>	<b>100.00</b>

<sup>1</sup> Excludes Inactive registrants.

**Table 2**  
**Massage Therapists (Full Registrants)<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	137	96.48	10	90.91	46	97.87	193	96.50
Ontario	26	18.31	4	36.36	17	36.17	47	23.50
British Columbia	111	78.17	6	54.55	29	61.70	146	73.00
<b>Non-Canadian Subtotal</b>	2	1.41	1	9.09	1	2.13	4	2.00
<b>Europe Subtotal</b>	2	1.41	1	9.09	1	2.13	4	2.00
Germany	0	0.00	0	0.00	1	2.13	1	0.50
Poland	2	1.41	0	0.00	0	0.00	2	1.00
United Kingdom	0	0.00	1	9.09	0	0.00	1	0.50
<b>Unknown</b>	3	2.11	0	0.00	0	0.00	3	1.50
<b>TOTAL</b>	142	100.00	11	100.00	47	100.00	200	100.00

<sup>1</sup> Excludes inactive registrants.

<sup>2</sup> MTs who reported B.C. addresses and were full registrants in December 1995 and whose date of initial registration was after December 1993.

**Table 3**  
**Massage Therapists (Full Registrants)<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	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	%
1 East Kootenay	6	33.33	0	0.00	0	0.00	12	66.67	0	0.00	18	100.00	0	0.00	0	0.00	18	100.00
2 West Kootenay - Boundary	17	45.95	0	0.00	0	0.00	20	54.05	0	0.00	37	100.00	0	0.00	0	0.00	37	100.00
4 North Okanagan	9	40.91	0	0.00	1	4.55	12	54.55	0	0.00	22	100.00	0	0.00	0	0.00	22	100.00
5 South Okanagan - Simiikameen	29	54.72	1	1.89	0	0.00	23	43.40	0	0.00	53	100.00	0	0.00	0	0.00	53	100.00
6 Thompson Valley	17	68.00	0	0.00	0	0.00	8	32.00	0	0.00	25	100.00	0	0.00	0	0.00	25	100.00
7 Upper Fraser Valley	18	66.67	0	0.00	0	0.00	8	29.63	0	0.00	26	96.30	1	3.70	0	0.00	27	100.00
9 South Fraser Valley	53	73.61	0	0.00	0	0.00	17	23.61	0	0.00	70	97.22	1	1.39	1	1.39	72	100.00
10 Simon Fraser	29	78.38	0	0.00	0	0.00	6	16.22	0	0.00	35	94.59	1	2.70	1	2.70	37	100.00
11 Coast Garibaldi	24	58.54	0	0.00	0	0.00	14	34.15	0	0.00	38	92.68	2	4.88	1	2.44	41	100.00
13 Central Vancouver Island	25	58.14	0	0.00	0	0.00	16	37.21	0	0.00	41	95.35	1	2.33	1	2.33	43	100.00
14 North Island/Mid Coast	13	46.43	0	0.00	0	0.00	14	50.00	0	0.00	27	96.43	0	0.00	1	3.57	28	100.00
15 Cariboo	4	40.00	0	0.00	0	0.00	5	50.00	0	0.00	9	90.00	0	0.00	1	10.00	10	100.00
16 North West	5	38.46	0	0.00	0	0.00	7	53.85	0	0.00	12	92.31	0	0.00	1	7.69	13	100.00
17 Peace River - Liard	5	100.00	0	0.00	0	0.00	0	0.00	0	0.00	5	100.00	0	0.00	0	0.00	5	100.00
18 Northern Interior	4	57.14	0	0.00	0	0.00	3	42.86	0	0.00	7	100.00	0	0.00	0	0.00	7	100.00
20 Vancouver	175	68.09	0	0.00	2	0.78	68	26.46	0	0.00	245	95.33	4	1.56	8	3.11	257	100.00
30 Burnaby	23	85.19	0	0.00	0	0.00	2	7.41	0	0.00	25	92.59	2	7.41	0	0.00	27	100.00
40 North Shore	47	64.38	0	0.00	0	0.00	24	32.88	0	0.00	71	97.26	1	1.37	1	1.37	73	100.00
50 Richmond	16	80.00	0	0.00	0	0.00	3	15.00	0	0.00	19	95.00	0	0.00	1	5.00	20	100.00
60 Capital Health	51	41.80	1	0.82	0	0.00	59	48.36	1	0.82	112	91.80	6	4.92	4	3.28	122	100.00
TOTAL	570	60.83	2	0.21	3	0.32	321	34.26	1	0.11	897	95.73	19	2.03	21	2.24	937	100.00

<sup>1</sup> Excludes Inactive registrants.



**Table 4**  
**Mean Years since Graduation for Massage Therapists (Full Registrants)<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation															
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	6	4.83	0	*	0	*	12	8.33	0	*	18	7.17	0	*	0	*
2 West Kootenay - Boundary	16	4.38	0	*	0	*	20	12.95	0	*	36	9.14	0	*	0	*
4 North Okanagan	9	3.89	0	*	1	*	12	8.17	0	*	22	7.23	0	*	0	*
5 South Okanagan - Similkameen	29	4.55	1	*	0	*	23	9.91	0	*	53	7.21	0	*	0	*
6 Thompson Valley	17	3.88	0	*	0	*	8	12.63	0	*	25	6.68	0	*	0	*
7 Upper Fraser Valley	18	4.72	0	*	0	*	8	13.75	0	*	26	7.50	1	*	0	*
9 South Fraser Valley	53	3.04	0	*	0	*	16	8.25	0	*	69	4.25	1	*	0	*
10 Simon Fraser	28	3.93	0	*	0	*	6	3.67	0	*	34	3.88	0	*	0	*
11 Coast Garibaldi	23	5.17	0	*	0	*	14	6.79	0	*	37	5.78	2	*	0	*
13 Central Vancouver Island	25	5.32	0	*	0	*	15	10.33	0	*	40	7.20	0	*	0	*
14 North Island/Mid Coast	13	5.38	0	*	0	*	14	11.43	0	*	27	8.52	0	*	0	*
15 Cariboo	4	6.25	0	*	0	*	5	7.80	0	*	9	7.11	0	*	0	*
16 North West	5	5.60	0	*	0	*	7	10.29	0	*	12	8.33	0	*	0	*
17 Peace River - Liard	5	5.60	0	*	0	*	0	*	0	*	5	5.60	0	*	0	*
18 Northern Interior	4	4.25	0	*	0	*	3	8.33	0	*	7	6.00	0	*	0	*
20 Vancouver	172	3.70	0	*	2	*	67	9.30	0	*	241	5.27	4	23.25	1	*
30 Burnaby	23	4.74	0	*	0	*	2	*	0	*	25	5.16	2	*	0	*
40 North Shore	46	4.26	0	*	0	*	24	9.17	0	*	70	5.94	1	*	0	*
50 Richmond	16	3.63	0	*	0	*	3	4.33	0	*	19	3.74	0	*	0	*
60 Capital Health	50	5.00	1	*	0	*	54	10.44	1	*	106	7.95	5	26.00	0	*
<b>TOTAL</b>	<b>562</b>	<b>4.19</b>	<b>2</b>	<b>*</b>	<b>3</b>	<b>12.67</b>	<b>313</b>	<b>9.70</b>	<b>1</b>	<b>*</b>	<b>881</b>	<b>6.22</b>	<b>16</b>	<b>22.81</b>	<b>1</b>	<b>*</b>

<sup>1</sup> Excludes Inactive registrants.

<sup>2</sup> Excludes 39 MTs with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.



## Occupational Therapists

**Definition:** Occupational Therapists (OTs) register with the British Columbia Society of Occupational Therapists (BCSOT) with "registered" (full-time or part-time), "provisional" or "non-practising" status.<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) OTs who register as provisional generally have met the educational and competency requirements of membership, but have not completed the national certification exam. Registration with the BCSOT does not necessarily imply employment in the field. 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 1995, employment address was available for 93% of registered or provisional OTs employed in occupational therapy. Home address is used for the remainder, as well as for OTs with registered or provisional status who are not employed in occupational therapy, and for OTs with non-practising membership status.

**Date of Record:** December 1995.

**Source of Data:** The British Columbia Society of Occupational Therapists (BCSOT).

**Discussion:**

The number of occupational therapists (OTs) with unknown place of graduation should be kept in mind when using all of these tables; 1.21% of the total group are unknown in terms of place of graduation, and 3.03% of new registrants.

The occupational therapist group is one of only two included in *PLACE OF GRADUATION* which is not a mandatory registration group. As a result, the information presented here is representative only of those people trained as OTs who choose to become members of the BCSOT. Many employers may insist on membership with the BCSOT as a prerequisite for employment, and the BCSOT is thought to have a fairly comprehensive membership, but there is no way to guarantee, as with groups where registration is mandatory, that the entire workforce is represented in these tables.

Figure 1 and Table 1 show the place of graduation for all OTs registered with the BCSOT. Table 2 shows this same information for new registrants (registrants to the BCSOT between December 1993 and December 1995) with registered or provisional status, and Figure 2 compares new registrants with registered or provisional status by place of graduation with the total registration group. Figure 1 suggests some differences in the distribution of OTs in the province by place of graduation; graduates from B.C. are more likely to locate in Vancouver and District, while those graduating in other parts of Canada are more likely to locate in Other B.C. or Capital. Figure 2 shows lower proportions of B.C. and Other Country graduates and a higher proportion of Other Canada graduates in the new registrant group compared to all registrants.

Tables 1 and 2 help to describe these differences. The proportion of B.C. graduates among all registrants is 37.39%, compared with 27.27% among the new registrants (registered and provisional members). Graduates from the other provinces show higher representation in the new registrants than in the total membership. For example, Ontario graduates are 18.18% of the new registrants but only 13.99% of the total group, and Alberta graduates are 11.36% of the new registrants compared to 9.29% of the total

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<sup>1</sup> Membership in the BCSOT is voluntary, but registered members have exclusive use of the titles Registered Occupational Therapist (B.C.) and Registered OT (B.C.)

group. Non-Canadian graduates are a slightly smaller percentage of the new registrants (23.48%) than they are in the total membership (26.30%). In 1995, there were no graduates from the U.S. among the new registrants, although they account for the second largest proportion of foreign graduates in the total group (3.62%). Graduates from Hong Kong account for the highest proportion of the foreign-trained new registrants at 7.58%, compared to only 2.41% in the overall BCSOT membership. United Kingdom graduates account for the highest proportion of the foreign graduates in the total group (13.63%), but are only 6.82% of the new registrants.

Table 1 also shows some differences, as suggested in Figure 1, regarding the location of OTs in the province. Capital is less likely to have B.C. graduates than either Other B.C. or Vancouver and District; B.C. graduates are 34.48% of OTs in Capital, but 36.05% of those in Other B.C. and 38.51% in Vancouver and District. Capital is far more likely to have Ontario graduates (24.14%) than either Other B.C. (12.88%) or Vancouver and District (12.77%). In contrast, Other B.C. is more likely to have Alberta graduates (16.74%) than either Capital (6.90%) or Vancouver and District (6.29%). The proportion of non-Canadian graduates ranges from 22.32% in Other B.C. to 22.99% in Capital and 28.68% in Vancouver and District. Capital registers no OTs who are graduates of schools in Asia, while these graduates make up 5.89% and 1.72% of OTs in Vancouver and District and Other B.C., respectively.

Separate tables on registered and provisional members of the BCSOT, registered and provisional members of the BCSOT who reported employment in occupational therapy, and non-practising BCSOT members were also produced this year. The first two tables are not included this year as the distributions were almost all within one or two percentage points of those seen in Table 1. The table on non-practising BCSOT members is also not included because, although it showed some differences in composition from Table 1, the small number of OTs in the non-practising registration category (only 54) makes extensive comparisons difficult. These three tables are available upon request.

Table 3 expands the information provided in Table 1, disaggregating location into health regions; graduates from the provinces east of Ontario are aggregated into the category "Other Canada", and foreign graduates are aggregated into the category "Other Country". B.C. graduates are 37.39% of the total BCSOT membership, but the proportion of B.C. graduates in individual health regions ranges from 0.00% in Peace River-Liard to 51.43% in Burnaby. The percentage distribution may in some cases be misleading for OTs, as the total group number (829) is relatively small, and a fair number (276) are located in Vancouver. There are five health regions that have fewer than ten OTs and another five with between ten and twenty. There are two health regions with 100% of OTs as graduating from Canadian schools; East Kootenay and Cariboo, with seven and five OTs, respectively.

Table 4 uses the same format as Table 3, this time presenting mean years since graduation for OTs. B.C. graduates show the lowest mean, at 11.17 years, though Alberta graduates are not too much higher at 11.43 years. Other Country graduates have the highest mean years since graduation at 20.73. Looking at the provincial totals, the overall mean years since graduation is 14.59. The individual health regions all fall fairly close to that mean, with the notable exception of Cariboo, where the mean is 6.80 years (though only five OTs contribute to this mean). North Island/Mid Coast posts the highest mean years since graduation at 20.00 years. Tables showing mean years since first registration and mean age are not presented this year because they offer limited additional information; these tables are, however, available upon request.

Figure 1

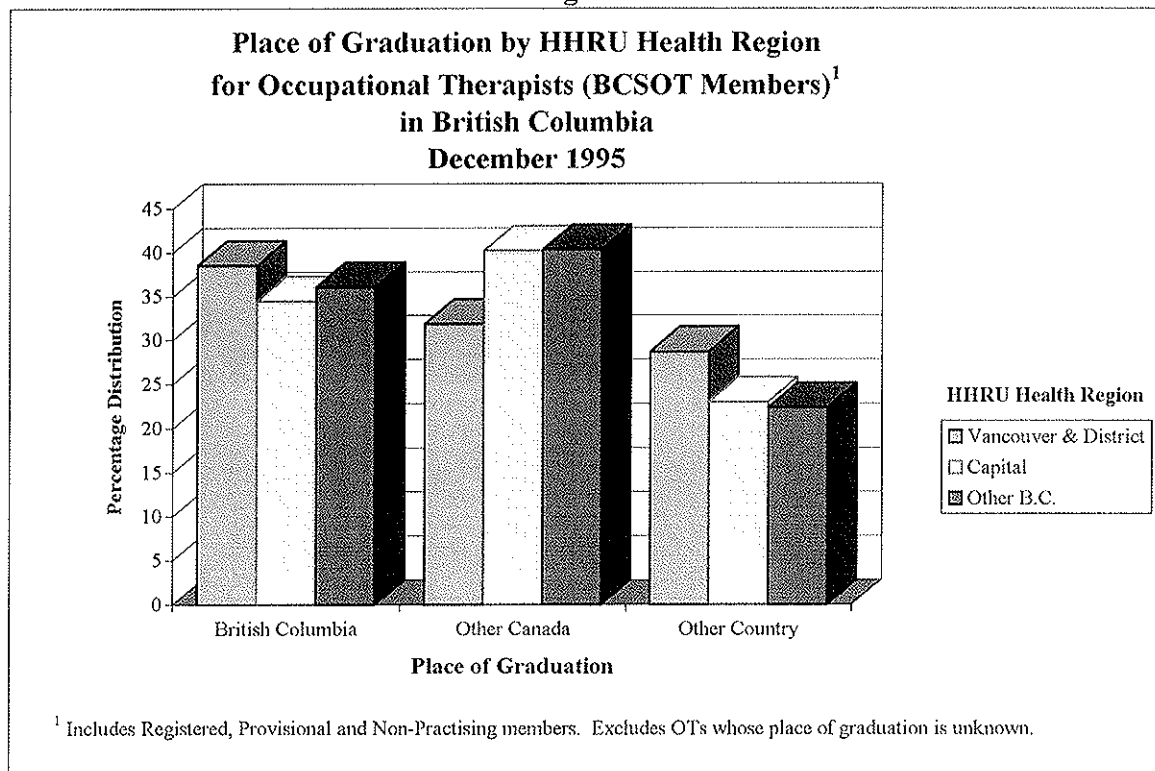
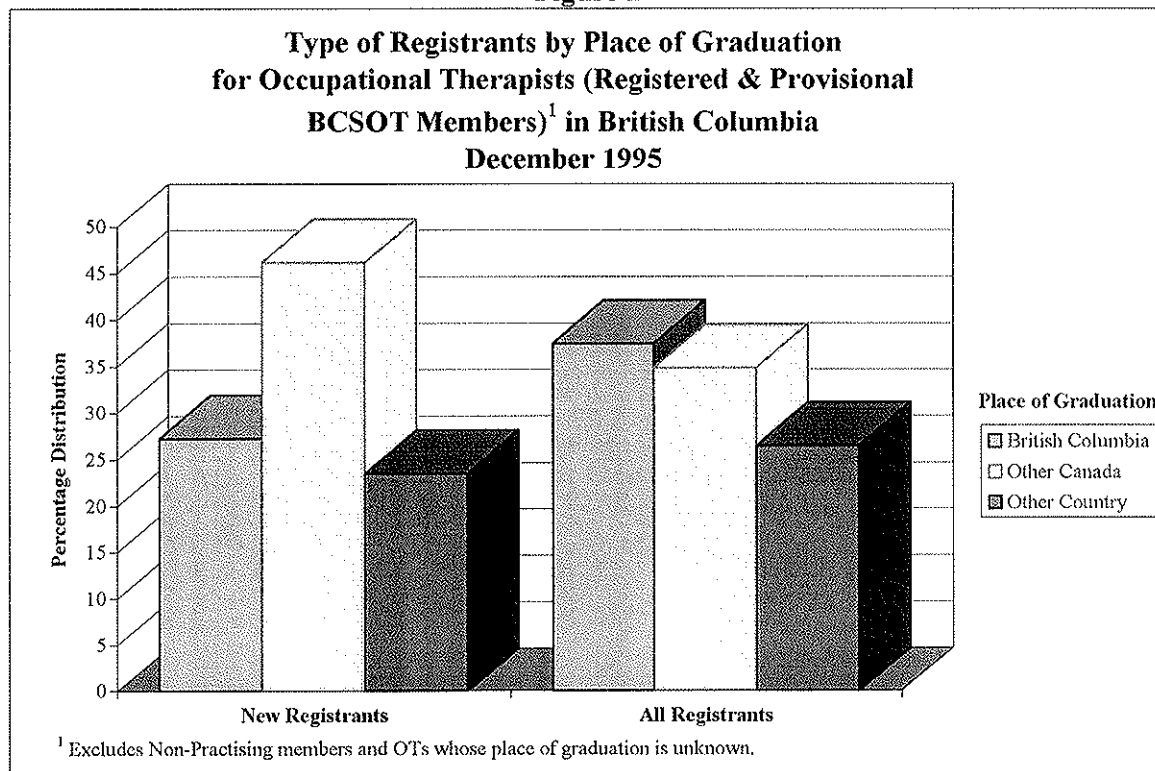


Figure 2



**Table 1**  
**Occupational Therapists (BCSOT Members)<sup>1,2</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>358</b>	<b>70.33</b>	<b>65</b>	<b>74.71</b>	<b>178</b>	<b>76.39</b>	<b>601</b>	<b>72.50</b>
Nova Scotia	7	1.38	0	0.00	4	1.72	11	1.33
New Brunswick	0	0.00	1	1.15	0	0.00	1	0.12
Quebec	38	7.47	3	3.45	2	0.86	43	5.19
Ontario	65	12.77	21	24.14	30	12.88	116	13.99
Manitoba	18	3.54	3	3.45	19	8.15	40	4.83
Saskatchewan	2	0.39	1	1.15	0	0.00	3	0.36
Alberta	32	6.29	6	6.90	39	16.74	77	9.29
British Columbia	196	38.51	30	34.48	84	36.05	310	37.39
<b>Non-Canadian Subtotal</b>	<b>146</b>	<b>28.68</b>	<b>20</b>	<b>22.99</b>	<b>52</b>	<b>22.32</b>	<b>218</b>	<b>26.30</b>
<b>North &amp; Central America Subtotal</b>	<b>16</b>	<b>3.14</b>	<b>5</b>	<b>5.75</b>	<b>9</b>	<b>3.86</b>	<b>30</b>	<b>3.62</b>
United States of America	16	3.14	5	5.75	9	3.86	30	3.62
<b>South America Subtotal</b>	<b>2</b>	<b>0.39</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.24</b>
Brazil	1	0.20	0	0.00	0	0.00	1	0.12
Chile	1	0.20	0	0.00	0	0.00	1	0.12
<b>Europe Subtotal</b>	<b>78</b>	<b>15.32</b>	<b>13</b>	<b>14.94</b>	<b>32</b>	<b>13.73</b>	<b>123</b>	<b>14.84</b>
Denmark	1	0.20	0	0.00	1	0.43	2	0.24
Germany	2	0.39	0	0.00	1	0.43	3	0.36
Irish Republic (Eire)	1	0.20	0	0.00	0	0.00	1	0.12
Netherlands	0	0.00	0	0.00	1	0.43	1	0.12
Sweden	2	0.39	0	0.00	0	0.00	2	0.24
Switzerland	0	0.00	0	0.00	1	0.43	1	0.12
United Kingdom	72	14.15	13	14.94	28	12.02	113	13.63
<b>Asia Subtotal</b>	<b>30</b>	<b>5.89</b>	<b>0</b>	<b>0.00</b>	<b>4</b>	<b>1.72</b>	<b>34</b>	<b>4.10</b>
Hong Kong	20	3.93	0	0.00	0	0.00	20	2.41
India	6	1.18	0	0.00	3	1.29	9	1.09
Philippines	4	0.79	0	0.00	1	0.43	5	0.60
<b>Africa Subtotal</b>	<b>8</b>	<b>1.57</b>	<b>1</b>	<b>1.15</b>	<b>2</b>	<b>0.86</b>	<b>11</b>	<b>1.33</b>
Kenya	1	0.20	0	0.00	0	0.00	1	0.12
South Africa	7	1.38	1	1.15	2	0.86	10	1.21
<b>Oceania Subtotal</b>	<b>12</b>	<b>2.36</b>	<b>1</b>	<b>1.15</b>	<b>5</b>	<b>2.15</b>	<b>18</b>	<b>2.17</b>
Australia	8	1.57	0	0.00	3	1.29	11	1.33
New Zealand	4	0.79	1	1.15	2	0.86	7	0.84
<b>Unknown</b>	<b>5</b>	<b>0.98</b>	<b>2</b>	<b>2.30</b>	<b>3</b>	<b>1.29</b>	<b>10</b>	<b>1.21</b>
<b>TOTAL</b>	<b>509</b>	<b>100.00</b>	<b>87</b>	<b>100.00</b>	<b>233</b>	<b>100.00</b>	<b>829</b>	<b>100.00</b>

<sup>1</sup> Includes Registered, Provisional and Non-Practising members.

<sup>2</sup> Membership in the BCSOT is voluntary.

**Table 2**  
**Occupational Therapists (Registered & Provisional BCSOT Members)<sup>1,2</sup> in British Columbia**  
**New Registrants<sup>3</sup>**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>54</b>	<b>69.23</b>	<b>10</b>	<b>83.33</b>	<b>33</b>	<b>78.57</b>	<b>97</b>	<b>73.48</b>
Nova Scotia	0	0.00	0	0.00	2	4.76	2	1.52
Quebec	10	12.82	0	0.00	1	2.38	11	8.33
Ontario	11	14.10	5	41.67	8	19.05	24	18.18
Manitoba	3	3.85	1	8.33	4	9.52	8	6.06
Saskatchewan	1	1.28	0	0.00	0	0.00	1	0.76
Alberta	4	5.13	0	0.00	11	26.19	15	11.36
British Columbia	25	32.05	4	33.33	7	16.67	36	27.27
<b>Non-Canadian Subtotal</b>	<b>23</b>	<b>29.49</b>	<b>1</b>	<b>8.33</b>	<b>7</b>	<b>16.67</b>	<b>31</b>	<b>23.48</b>
<b>Europe Subtotal</b>	<b>6</b>	<b>7.69</b>	<b>1</b>	<b>8.33</b>	<b>3</b>	<b>7.14</b>	<b>10</b>	<b>7.58</b>
Germany	0	0.00	0	0.00	1	2.38	1	0.76
United Kingdom	6	7.69	1	8.33	2	4.76	9	6.82
<b>Asia Subtotal</b>	<b>12</b>	<b>15.38</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>4.76</b>	<b>14</b>	<b>10.61</b>
Hong Kong	10	12.82	0	0.00	0	0.00	10	7.58
India	1	1.28	0	0.00	1	2.38	2	1.52
Philippines	1	1.28	0	0.00	1	2.38	2	1.52
<b>Africa Subtotal</b>	<b>3</b>	<b>3.85</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>2.38</b>	<b>4</b>	<b>3.03</b>
South Africa	3	3.85	0	0.00	1	2.38	4	3.03
<b>Oceania Subtotal</b>	<b>2</b>	<b>2.56</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>2.38</b>	<b>3</b>	<b>2.27</b>
Australia	2	2.56	0	0.00	0	0.00	2	1.52
New Zealand	0	0.00	0	0.00	1	2.38	1	0.76
<b>Unknown</b>	<b>1</b>	<b>1.28</b>	<b>1</b>	<b>8.33</b>	<b>2</b>	<b>4.76</b>	<b>4</b>	<b>3.03</b>
<b>TOTAL</b>	<b>78</b>	<b>100.00</b>	<b>12</b>	<b>100.00</b>	<b>42</b>	<b>100.00</b>	<b>132</b>	<b>100.00</b>

<sup>1</sup> Excludes Non-Practising members.

<sup>2</sup> Membership in the BCSOT is voluntary.

<sup>3</sup> OTs who reported B.C. addresses and were registered or provisional members in December 1995 and whose date of initial registration was after December 1993.

**Table 3**  
**Occupational Therapists (BCSOT Members)<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	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	%
1 East Kootenay	3	42.86	0	0.00	1	14.29	2	28.57	1	14.29	7	100.00	0	0.00	0	0.00	7	100.00
2 West Kootenay - Boundary	3	37.50	0	0.00	2	25.00	1	12.50	0	0.00	6	75.00	2	25.00	0	0.00	8	100.00
4 North Okanagan	6	33.33	3	16.67	3	16.67	4	22.22	0	0.00	16	88.89	1	5.56	1	5.56	18	100.00
5 South Okanagan - Similkameen	15	28.30	11	20.75	8	15.09	5	9.43	2	3.77	41	77.36	11	20.75	1	1.89	53	100.00
6 Thompson Valley	5	26.32	4	21.05	0	0.00	3	15.79	0	0.00	12	63.16	7	36.84	0	0.00	19	100.00
7 Upper Fraser Valley	7	35.00	3	15.00	2	10.00	1	5.00	0	0.00	13	65.00	7	35.00	0	0.00	20	100.00
9 South Fraser Valley	21	36.21	8	13.79	2	3.45	7	12.07	6	10.34	44	75.86	14	24.14	0	0.00	58	100.00
10 Simon Fraser	15	28.85	6	11.54	2	3.85	7	13.46	3	5.77	33	63.46	19	36.54	0	0.00	52	100.00
11 Coast Garibaldi	2	25.00	1	12.50	0	0.00	1	12.50	0	0.00	4	50.00	4	50.00	0	0.00	8	100.00
13 Central Vancouver Island	23	46.94	10	20.41	2	4.08	4	8.16	3	6.12	42	85.71	7	14.29	0	0.00	49	100.00
14 North Island/Mid Coast	6	37.50	0	0.00	0	0.00	2	12.50	0	0.00	8	50.00	8	50.00	0	0.00	16	100.00
15 Cariboo	2	40.00	2	40.00	1	20.00	0	0.00	0	0.00	5	100.00	0	0.00	0	0.00	5	100.00
16 North West	6	40.00	1	6.67	0	0.00	6	40.00	0	0.00	13	86.67	2	13.33	0	0.00	15	100.00
17 Peace River - Liard	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	100.00	0	0.00	2	100.00
18 Northern Interior	6	46.15	4	30.77	0	0.00	1	7.69	0	0.00	11	84.62	1	7.69	1	7.69	13	100.00
20 Vancouver	107	38.77	12	4.35	12	4.35	32	11.59	28	10.14	191	69.20	82	29.71	3	1.09	276	100.00
30 Burnaby	18	51.43	0	0.00	2	5.71	3	8.57	2	5.71	25	71.43	9	25.71	1	2.86	35	100.00
40 North Shore	13	38.24	3	8.82	1	2.94	9	26.47	2	5.88	28	82.35	6	17.65	0	0.00	34	100.00
50 Richmond	22	40.74	3	5.56	1	1.85	7	12.96	4	7.41	37	68.52	16	29.63	1	1.85	54	100.00
60 Capital Health	30	34.48	6	6.90	4	4.60	21	24.14	4	4.60	65	74.71	20	22.99	2	2.30	87	100.00
TOTAL	310	37.39	77	9.29	43	5.19	116	13.99	55	6.63	601	72.50	218	26.30	10	1.21	829	100.00

<sup>1</sup> Includes Registered, Provisional and Non-Practising members.

<sup>2</sup> Membership in the BCSOT is voluntary.



**Table 4**  
**Mean Years since Graduation for Occupational Therapists (BCSOT Members)<sup>1,2,3</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	3	7.67	0	*	1	*	2	*	1	*	7	13.00	0	*	0	*	7	13.00
2 West Kootenay - Boundary	3	10.67	0	*	2	*	1	*	0	*	6	13.17	2	*	0	*	8	15.00
4 North Okanagan	6	15.83	3	11.67	3	16.67	4	7.25	0	*	16	13.06	1	*	1	*	18	12.67
5 South Okanagan - Similkameen	15	12.33	11	9.27	8	14.25	5	11.00	2	*	41	11.32	11	19.73	1	*	53	12.85
6 Thompson Valley	5	14.80	4	6.50	0	*	3	14.67	0	*	12	12.00	7	22.29	0	*	19	15.79
7 Upper Fraser Valley	7	10.14	3	17.00	2	*	1	*	0	*	13	11.31	7	25.71	0	*	20	16.35
9 South Fraser Valley	21	11.71	8	12.38	2	*	7	19.43	6	12.67	44	12.98	14	22.00	0	*	58	15.16
10 Simon Fraser	15	9.27	6	12.00	2	*	7	14.71	3	7.33	33	10.82	19	22.00	0	*	52	14.90
11 Coast Garibaldi	2	*	1	*	0	*	1	*	0	*	4	18.50	4	17.00	0	*	8	17.75
13 Central Vancouver Island	23	10.74	10	10.60	2	*	4	21.75	3	10.33	42	12.00	7	24.57	0	*	49	13.80
14 North Island/Mid Coast	6	17.50	0	*	0	*	2	*	0	*	8	16.38	8	23.63	0	*	16	20.00
15 Cariboo	2	*	2	*	1	*	0	*	0	*	5	6.80	0	*	0	*	5	6.80
16 North West	6	12.67	1	*	0	*	6	12.83	0	*	13	12.31	2	*	0	*	15	13.40
17 Peace River - Liard	0	*	0	*	0	*	0	*	0	*	0	*	2	*	0	*	2	*
18 Northern Interior	6	11.33	4	10.75	0	*	1	*	0	*	11	12.73	1	*	0	*	12	13.33
20 Vancouver	106	10.57	12	13.75	12	15.83	32	13.72	27	16.26	189	12.45	80	19.20	2	*	271	14.38
30 Burnaby	18	12.28	0	*	2	*	3	7.00	2	*	25	11.96	9	19.89	0	*	34	14.06
40 North Shore	13	10.31	3	7.00	1	*	9	19.78	2	*	28	14.96	5	26.80	0	*	33	16.76
50 Richmond	22	8.09	3	11.33	1	*	7	8.14	4	10.00	37	8.54	16	17.56	0	*	53	11.26
60 Capital Health	30	12.77	6	16.33	4	13.25	21	16.57	4	20.00	65	14.80	20	23.00	1	*	86	16.83
TOTAL	309	11.17	77	11.43	43	13.84	116	14.83	54	14.94	599	12.44	215	20.73	5	7.60	819	14.59

<sup>1</sup> Includes Registered, Provisional and Non-Practising members.

<sup>2</sup> Membership in the BCSOT is voluntary.

<sup>3</sup> Excludes 10 OTs with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

## Physical Therapists

**Definition:** Physical Therapists (PTs) register with the College of Physical Therapists of British Columbia (CPTBC) with "full", "limited" or "inactive" registration status.<sup>1</sup> Those included in this report had British Columbia addresses at the date of record. (See *ROLLCALL 95* for a detailed definition of this group.) Registration with the CPTBC does not necessarily imply employment in the field. Data in the tables are presented based on employment address when the membership status is full or limited, when employment in physical therapy is reported, and when employment address is available. In 1995, employment address was available for 96% of full or limited PTs employed in physical therapy. Home address is used for the remainder, as well as for registrant PTs who are not employed in physical therapy, and for PTs with inactive registration status.

**Date of Record:** December 1995.

**Source of Data:** The College of Physical Therapists of British Columbia (CPTBC).

### Discussion:

The number of PTs with unknown place of graduation must be kept in mind when using all of these tables; 1.47% of the total group are unknown in terms of place of graduation, as are 5.13% of the new registrants. Figure 1 and Table 1 show the place of graduation for all PTs. Table 2 shows this same information for new registrants (registrants to the APMPC and/or the CPTBC between December 1993 and December 1995)<sup>2</sup> with full or limited status, and Figure 2 compares new registrants by place of graduation with the total registration group. Figure 1 indicates that the majority of physical therapists graduate from programs outside B.C. and that those PTs who graduated in Other Canada are most likely to be located in Capital, while foreign graduates are most likely to be located in Vancouver and District. Figure 2 shows a smaller proportion of B.C. and foreign graduates among the new registrants compared to the total group, and a much larger proportion of Other Canada graduates among the new registrants.

As Figure 2 indicated, Tables 1 and 3 show the proportion of B.C. graduates is lower in the new registrants than in the total group (24.91% vs. 27.59%), while Other Canada graduates account for a larger proportion of the new registrants than of the total group (45.05% vs. 33.78%). Within Other Canada, the proportion of Manitoba graduates is lower in the new registrants than in the total group (1.83% vs. 4.45%), and the proportions of Ontario, Saskatchewan and Alberta graduates are higher among the new registrants (16.85% vs. 11.96%, 4.40% vs. 2.80% and 14.65% vs. 7.97%, respectively). Looking at location in the province, B.C. graduates only account for 19.48% of the total group and 20.51% of the new registrants in Capital, while in Other B.C. the proportion of B.C. graduates rises to 28.99% of the total group and 25.84% of the new registrants. Alberta graduates, in comparison, range from 5.45% in Vancouver and District to 14.61% in Capital in Table 1 (the total group) and from 7.59% in Vancouver and District to 33.33% in Capital in Table 3 (the new registrants).

Foreign graduates account for a much larger portion of the total group than of the new registrants (37.17% vs. 24.91%). Graduates from the U.K. and Hong Kong show the largest differences; graduates from the U.K. account for 20.85% of the total group, but only 6.23% of the new registrants. Graduates from Hong Kong show an opposite trend, representing 1.24% of the total group but 3.66% of the new registrants. Examining distributions of foreign graduates across the province shows that in both the total group and the new registrants, Vancouver and District has the highest proportion of foreign-trained PTs

<sup>1</sup> The *Health Professions Act, 1990* mandates registration with the CPTBC in order to practise as a PT in B.C.

<sup>2</sup> In December, 1994, the College of Physical Therapists of BC (CPTBC) replaced the Association of Physiotherapists and Massage Practitioners of BC (APMPBC) as the regulatory body for PTs in B.C..

(40.40% and 31.72% respectively). All of the Hong Kong graduates in both Tables 1 and 3 are located in Vancouver and District. Capital and Other B.C. show some differences in foreign graduate composition, but also have very low numbers of foreign-graduated new registrants (four and eighteen respectively).

Tables looking at only the full and limited registrant PTs and the full and limited registrant PTs who reported employment in physical therapy were also produced this year but are not included. The first of these two tables is not included this year as the distributions were all within one or two percentage points of those seen in Table 1 (all registrants). The proportions in the table on full and limited registrant PTs who reported employment in physical therapy are also very similar to those in Table 1. The most noteworthy differences are that in Capital, the proportions of both B.C. and Alberta graduates are slightly lower in the table on full and limited registrant PTs who reported employment in physical therapy than among the total group (17.73% vs. 19.48% and 13.30% vs. 14.61%, respectively), and the provincial proportion of Other Country graduates is slightly higher among the full and limited registrant PTs who reported employment in physical therapy than among the total group (38.80% vs. 37.17%). These tables are available upon request.

The limited registrant category offered by the CPTBC is used mostly by non-Canadian graduates until application for registration is complete. A separate table is not included here because of the small number of PTs in this registration category; in December 1995 the limited register held only 30 PTs. Of the thirty, eleven were graduates of Canadian schools (nine from Ontario and two from B.C.). A table showing the inactive members of the CPTBC is also not included, as there are only 115 PTs with this registration category. All tables mentioned but not published are available upon request.

Table 3 disaggregates the information provided in Table 1 by health region, with graduates from the provinces east of Ontario aggregated into the category "Other Canada", and foreign graduates aggregated into the category "Other Country". The percentage of B.C. graduates in each health region ranges from 14.53% in North Shore and 14.71% in East Kootenay up to 43.48% in Northern Interior. The percentage of Alberta graduates is only 7.97% of the total group, but reaches 20.59% in East Kootenay, which shares a large border with Alberta. The proportions of foreign graduate PTs range from 26.47% in East Kootenay to 55.56% in North Shore.

Table 4 uses the same format as Table 3, this time presenting mean years since graduation. The total row shows that B.C. graduates, at 12.69 years, have the lowest mean years since graduation. Non-Canadian graduates have the highest mean, at 20.74 years. The range in the mean for B.C. graduates in the individual health regions is from 8.33 years in West Kootenay-Boundary to 17.50 years in Peace River-Liard (though this mean is based on only 4 physical therapists). Looking at the graduates of other countries, Peace River-Liard presents with a mean years since graduation of 14.56 years compared to 20.74 overall, the lowest mean in this column.

Table 5 shows the mean years since first registration in B.C. for PTs. The relatively large number of PTs with missing or invalid year of registration in B.C. (432 PTs) must be kept in mind when examining this table. The difference between the mean years since first registration in B.C. and the mean years since graduation (Table 4) may reflect time taken off between graduation and registration with the CPTBC, or work experience obtained in another province or country. Whatever the reason, the numbers in the total row are all lower than the corresponding numbers in Table 4 by several years. Alberta graduates show the smallest mean years since first registration in B.C. at 8.04, and Other Country graduates the largest at 12.34, a range of only 4.3 years. Within the B.C. graduates, the lowest mean years since first registration is in Upper Fraser Valley at 4.36 and in West-Kootenay-Boundary at 4.77 years, well below the provincial average for B.C. graduates (10.15 years).

Table 6 presents the mean age of PTs by place of graduation and by health region. As might be expected from Table 4, B.C. graduates have the youngest mean age (37.71 years) and Other Country graduates the oldest (43.28 years). It is interesting to note the difference in mean years since graduation (Table 4) for B.C. and Other Country graduates is over eight years, while the difference in mean age is

just over five and a half years, suggesting that PTs graduating in other countries are slightly younger than Canadian graduates when they finish their schooling.

Figure 1

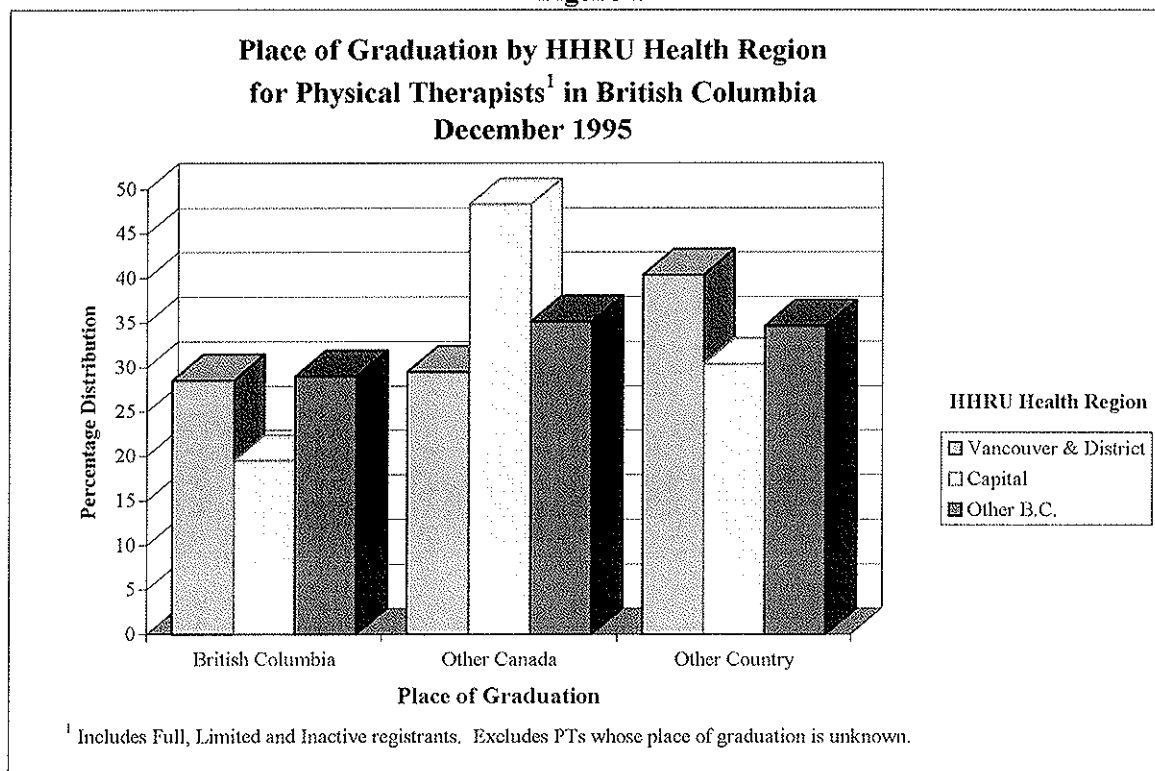
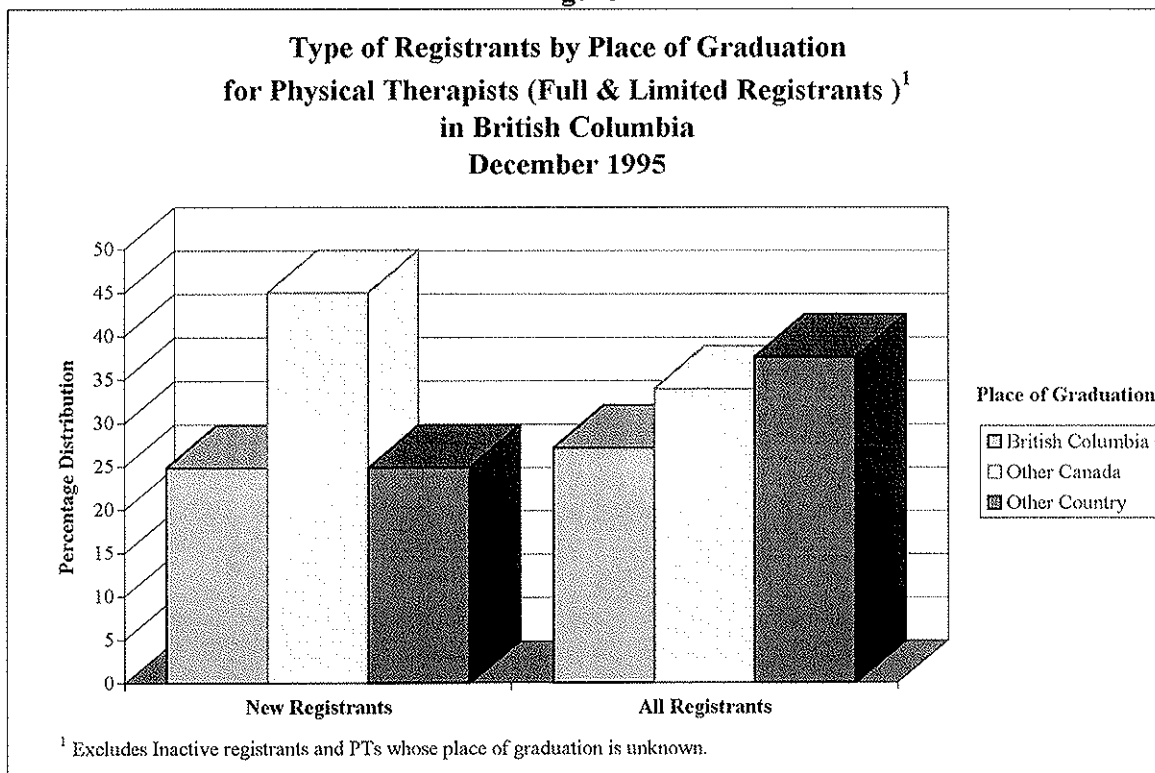


Figure 2



**Table 1**  
**Physical Therapists<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>671</b>	<b>58.04</b>	<b>181</b>	<b>67.79</b>	<b>487</b>	<b>64.16</b>	<b>1,339</b>	<b>61.37</b>
Nova Scotia	18	1.56	5	1.87	21	2.77	44	2.02
Quebec	57	4.93	14	5.24	29	3.82	100	4.58
Ontario	133	11.51	46	17.23	82	10.80	261	11.96
Manitoba	46	3.98	16	5.99	35	4.61	97	4.45
Saskatchewan	24	2.08	9	3.37	28	3.69	61	2.80
Alberta	63	5.45	39	14.61	72	9.49	174	7.97
British Columbia	330	28.55	52	19.48	220	28.99	602	27.59
<b>Non-Canadian Subtotal</b>	<b>467</b>	<b>40.40</b>	<b>81</b>	<b>30.34</b>	<b>263</b>	<b>34.65</b>	<b>811</b>	<b>37.17</b>
<b>North &amp; Central America Subtotal</b>	<b>19</b>	<b>1.64</b>	<b>5</b>	<b>1.87</b>	<b>15</b>	<b>1.98</b>	<b>39</b>	<b>1.79</b>
Jamaica	0	0.00	0	0.00	1	0.13	1	0.05
United States of America	19	1.64	5	1.87	14	1.84	38	1.74
<b>South America Subtotal</b>	<b>2</b>	<b>0.17</b>	<b>0</b>	<b>0.00</b>	<b>2</b>	<b>0.26</b>	<b>4</b>	<b>0.18</b>
Brazil	1	0.09	0	0.00	1	0.13	2	0.09
Chile	0	0.00	0	0.00	1	0.13	1	0.05
Colombia	1	0.09	0	0.00	0	0.00	1	0.05
<b>Europe Subtotal</b>	<b>296</b>	<b>25.61</b>	<b>62</b>	<b>23.22</b>	<b>207</b>	<b>27.27</b>	<b>565</b>	<b>25.89</b>
Austria	1	0.09	0	0.00	2	0.26	3	0.14
Belgium	1	0.09	0	0.00	4	0.53	5	0.23
Czechoslovakia <sup>2</sup>	3	0.26	0	0.00	1	0.13	4	0.18
Denmark	2	0.17	0	0.00	0	0.00	2	0.09
Finland	0	0.00	1	0.37	0	0.00	1	0.05
France	0	0.00	0	0.00	2	0.26	2	0.09
Germany	9	0.78	4	1.50	12	1.58	25	1.15
Netherlands	11	0.95	3	1.12	28	3.69	42	1.92
Norway	2	0.17	0	0.00	0	0.00	2	0.09
Poland	6	0.52	0	0.00	1	0.13	7	0.32
Sweden	5	0.43	0	0.00	3	0.40	8	0.37
Switzerland	2	0.17	0	0.00	1	0.13	3	0.14
United Kingdom	249	21.54	54	20.22	152	20.03	455	20.85
Yugoslavia <sup>2</sup>	4	0.35	0	0.00	1	0.13	5	0.23
Croatia	1	0.09	0	0.00	0	0.00	1	0.05
<b>Asia Subtotal</b>	<b>48</b>	<b>4.15</b>	<b>2</b>	<b>0.75</b>	<b>3</b>	<b>0.40</b>	<b>53</b>	<b>2.43</b>
Hong Kong	27	2.34	0	0.00	0	0.00	27	1.24
India	7	0.61	1	0.37	2	0.26	10	0.46
Iran	2	0.17	0	0.00	0	0.00	2	0.09
Israel	1	0.09	0	0.00	0	0.00	1	0.05
Korea (North or South unspecified)	1	0.09	0	0.00	0	0.00	1	0.05
Philippines	7	0.61	1	0.37	0	0.00	8	0.37
South Korea	1	0.09	0	0.00	0	0.00	1	0.05
Sri Lanka	1	0.09	0	0.00	1	0.13	2	0.09
Taiwan	1	0.09	0	0.00	0	0.00	1	0.05
<b>Africa Subtotal</b>	<b>25</b>	<b>2.16</b>	<b>1</b>	<b>0.37</b>	<b>6</b>	<b>0.79</b>	<b>32</b>	<b>1.47</b>
Egypt	4	0.35	0	0.00	2	0.26	6	0.27
Nigeria	1	0.09	0	0.00	0	0.00	1	0.05
South Africa	20	1.73	1	0.37	4	0.53	25	1.15

*...continued*

**Table 1(continued)**  
**Physical Therapists<sup>1</sup> in British Columbia**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Oceania Subtotal</b>	77	6.66	11	4.12	30	3.95	118	5.41
Australia	53	4.58	5	1.87	17	2.24	75	3.44
New Zealand	24	2.08	6	2.25	13	1.71	43	1.97
<b>Unknown</b>	18	1.56	5	1.87	9	1.19	32	1.47
<b>TOTAL</b>	<b>1,156</b>	<b>100.00</b>	<b>267</b>	<b>100.00</b>	<b>759</b>	<b>100.00</b>	<b>2,182</b>	<b>100.00</b>

<sup>1</sup> Includes Full, Limited and Inactive registrants.

<sup>2</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.

**Table 2**  
**Physical Therapists (Full & Limited Registrants)<sup>1</sup> in British Columbia**  
**New Registrants<sup>2</sup>**  
**by Place of Graduation by HHRU Health Region**  
**December 1995**

Place of Graduation	Vancouver and District		Capital		Other B.C.		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<b>Canadian Subtotal</b>	<b>91</b>	<b>62.76</b>	<b>32</b>	<b>82.05</b>	<b>68</b>	<b>76.40</b>	<b>191</b>	<b>69.96</b>
Nova Scotia	5	3.45	2	5.13	2	2.25	9	3.30
Quebec	5	3.45	0	0.00	6	6.74	11	4.03
Ontario	25	17.24	7	17.95	14	15.73	46	16.85
Manitoba	4	2.76	0	0.00	1	1.12	5	1.83
Saskatchewan	4	2.76	2	5.13	6	6.74	12	4.40
Alberta	11	7.59	13	33.33	16	17.98	40	14.65
British Columbia	37	25.52	8	20.51	23	25.84	68	24.91
<b>Non-Canadian Subtotal</b>	<b>46</b>	<b>31.72</b>	<b>4</b>	<b>10.26</b>	<b>18</b>	<b>20.22</b>	<b>68</b>	<b>24.91</b>
<b>North &amp; Central America Subtotal</b>	<b>3</b>	<b>2.07</b>	<b>1</b>	<b>2.56</b>	<b>1</b>	<b>1.12</b>	<b>5</b>	<b>1.83</b>
United States of America	3	2.07	1	2.56	1	1.12	5	1.83
<b>Europe Subtotal</b>	<b>17</b>	<b>11.72</b>	<b>2</b>	<b>5.13</b>	<b>11</b>	<b>12.36</b>	<b>30</b>	<b>10.99</b>
Germany	1	0.69	1	2.56	3	3.37	5	1.83
Netherlands	2	1.38	0	0.00	0	0.00	2	0.73
Poland	2	1.38	0	0.00	1	1.12	3	1.10
Switzerland	2	1.38	0	0.00	0	0.00	2	0.73
United Kingdom	9	6.21	1	2.56	7	7.87	17	6.23
Yugoslavia <sup>3</sup>	1	0.69	0	0.00	0	0.00	1	0.37
<b>Asia Subtotal</b>	<b>13</b>	<b>8.97</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>1.12</b>	<b>14</b>	<b>5.13</b>
Hong Kong	10	6.90	0	0.00	0	0.00	10	3.66
India	1	0.69	0	0.00	1	1.12	2	0.73
Iran	1	0.69	0	0.00	0	0.00	1	0.37
Korea (North or South unspecified)	1	0.69	0	0.00	0	0.00	1	0.37
<b>Africa Subtotal</b>	<b>5</b>	<b>3.45</b>	<b>0</b>	<b>0.00</b>	<b>1</b>	<b>1.12</b>	<b>6</b>	<b>2.20</b>
Egypt	2	1.38	0	0.00	0	0.00	2	0.73
South Africa	3	2.07	0	0.00	1	1.12	4	1.47
<b>Oceania Subtotal</b>	<b>8</b>	<b>5.52</b>	<b>1</b>	<b>2.56</b>	<b>4</b>	<b>4.49</b>	<b>13</b>	<b>4.76</b>
Australia	8	5.52	1	2.56	3	3.37	12	4.40
New Zealand	0	0.00	0	0.00	1	1.12	1	0.37
<b>Unknown</b>	<b>8</b>	<b>5.52</b>	<b>3</b>	<b>7.69</b>	<b>3</b>	<b>3.37</b>	<b>14</b>	<b>5.13</b>
<b>TOTAL</b>	<b>145</b>	<b>100.00</b>	<b>39</b>	<b>100.00</b>	<b>89</b>	<b>100.00</b>	<b>273</b>	<b>100.00</b>

<sup>1</sup> Excludes Inactive registrants.

<sup>2</sup> PTs who reported B.C. addresses and were full/limited registrants in December 1995 and whose date of initial registration was after December 1993.

<sup>3</sup> Former country names are used when the HHRU lacks sufficient data to place graduates using new names and boundaries.



**Table 3**  
**Physical Therapists<sup>1</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	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	%
1 East Kootenay	5	14.71	7	20.59	4	11.76	5	14.71	3	8.82	24	70.59	9	26.47	1	2.94	34	100.00
2 West Kootenay - Boundary	15	27.78	7	12.96	2	3.70	8	14.81	3	5.56	35	64.81	18	33.33	1	1.85	54	100.00
4 North Okanagan	21	29.58	6	8.45	8	11.27	4	5.63	3	4.23	42	59.15	28	39.44	1	1.41	71	100.00
5 South Okanagan - Similkameen	40	28.78	12	8.63	15	10.79	14	10.07	10	7.19	91	65.47	48	34.53	0	0.00	139	100.00
6 Thompson Valley	17	32.69	5	9.62	5	9.62	5	9.62	3	5.77	35	67.31	17	32.69	0	0.00	52	100.00
7 Upper Fraser Valley	21	27.63	9	11.84	5	6.58	8	10.53	5	6.58	48	63.16	26	34.21	2	2.63	76	100.00
9 South Fraser Valley	43	25.00	18	10.47	16	9.30	18	10.47	7	4.07	102	59.30	68	39.53	2	1.16	172	100.00
10 Simon Fraser	46	31.51	10	6.85	10	6.85	23	15.75	7	4.79	96	65.75	48	32.88	2	1.37	146	100.00
11 Coast Garibaldi	13	28.26	4	8.70	0	0.00	11	23.91	3	6.52	31	67.39	15	32.61	0	0.00	46	100.00
13 Central Vancouver Island	24	22.02	11	10.09	13	11.93	12	11.01	5	4.59	65	59.63	43	39.45	1	0.92	109	100.00
14 North Island/Mid Coast	24	42.86	2	3.57	3	5.36	4	7.14	3	5.36	36	64.29	19	33.93	1	1.79	56	100.00
15 Cariboo	7	28.00	1	4.00	3	12.00	1	4.00	3	12.00	15	60.00	9	36.00	1	4.00	25	100.00
16 North West	9	29.03	1	3.23	2	6.45	4	12.90	5	16.13	21	67.74	9	29.03	1	3.23	31	100.00
17 Peace River - Liard	4	20.00	2	10.00	0	0.00	4	20.00	1	5.00	11	55.00	9	45.00	0	0.00	20	100.00
18 Northern Interior	20	43.48	5	10.87	3	6.52	2	4.35	3	6.52	33	71.74	13	28.26	0	0.00	46	100.00
20 Vancouver	155	28.60	23	4.24	28	5.17	65	11.99	37	6.83	308	56.83	226	41.70	8	1.48	542	100.00
30 Burnaby	24	32.88	3	4.11	2	2.74	8	10.96	10	13.70	47	64.38	25	34.25	1	1.37	73	100.00
40 North Shore	17	14.53	2	1.71	10	8.55	14	11.97	7	5.98	50	42.74	65	55.56	2	1.71	117	100.00
50 Richmond	45	42.45	7	6.60	4	3.77	5	4.72	7	6.60	68	64.15	35	33.02	3	2.83	106	100.00
60 Capital Health	52	19.48	39	14.61	25	9.36	46	17.23	19	7.12	181	67.79	81	30.34	5	1.87	267	100.00
TOTAL	602	27.59	174	7.97	158	7.24	261	11.96	144	6.60	1,339	61.37	811	37.17	32	1.47	2,182	100.00

<sup>1</sup> Includes Full, Limited and Inactive registrants.

**Table 4**  
**Mean Years since Graduation for Physical Therapists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation																TOTAL	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown			
	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean
		Years		Years		Years		Years		Years		Years		Years		Years		Years
1 East Kootenay	5	17.20	7	15.29	4	7.75	5	18.40	3	10.00	24	14.42	9	23.11	0	*	33	16.79
2 West Kootenay - Boundary	15	8.33	7	12.43	2	*	8	17.38	3	12.00	35	11.69	18	21.94	0	*	53	15.17
4 North Okanagan	21	13.48	6	22.83	8	16.63	4	10.25	3	25.33	42	15.95	28	22.32	1	*	71	18.28
5 South Okanagan - Similkameen	40	11.38	12	16.50	14	14.57	14	13.43	10	15.70	90	13.36	48	22.56	0	*	138	16.56
6 Thompson Valley	16	15.38	5	11.20	5	18.00	5	22.20	3	18.67	34	16.44	17	21.82	0	*	51	18.24
7 Upper Fraser Valley	21	10.19	9	23.89	5	14.60	8	13.25	5	15.00	48	14.23	26	20.42	1	*	75	16.28
9 South Fraser Valley	42	14.83	18	17.06	16	15.50	18	14.22	7	17.43	101	15.41	68	19.63	0	*	169	17.11
10 Simon Fraser	46	12.20	10	16.10	10	15.10	23	12.13	7	10.29	96	12.75	48	22.75	0	*	144	16.08
11 Coast Garibaldi	12	10.92	4	13.00	0	*	10	19.00	3	19.67	29	14.90	15	19.33	0	*	44	16.41
13 Central Vancouver Island	23	14.17	11	17.55	12	18.58	12	13.00	5	17.20	63	15.62	43	23.00	0	*	106	18.61
14 North Island/Mid Coast	23	13.91	2	*	3	9.67	4	17.25	3	27.67	35	15.11	19	20.37	0	*	54	16.96
15 Cariboo	7	17.29	1	*	3	22.33	1	*	3	12.00	15	15.13	9	16.44	0	*	24	15.63
16 North West	9	12.67	1	*	2	*	4	8.25	5	9.80	21	12.71	9	18.56	1	*	31	14.81
17 Peace River - Liard	4	17.50	2	*	0	*	4	16.00	1	*	11	16.73	9	14.56	0	*	20	15.75
18 Northern Interior	20	14.05	5	14.80	3	16.33	2	*	3	11.67	33	14.61	12	15.50	0	*	45	14.84
20 Vancouver	154	11.04	23	15.87	28	14.00	64	13.86	36	16.81	305	12.95	223	19.19	1	*	529	15.64
30 Burnaby	23	13.39	3	20.67	2	*	8	16.50	10	18.50	46	15.70	24	16.54	1	*	71	15.94
40 North Shore	17	14.76	2	*	10	20.70	14	18.14	7	14.71	50	16.44	65	22.14	1	*	116	19.50
50 Richmond	45	13.67	7	17.71	3	14.67	5	11.40	7	12.71	67	13.87	33	19.21	0	*	100	15.63
60 Capital Health	52	13.85	39	13.77	25	18.32	45	18.80	18	16.72	179	15.99	79	24.61	2	*	260	18.52
TOTAL	595	12.69	174	15.91	155	16.20	258	15.29	142	15.94	1,324	14.38	802	20.74	8	12.63	2,134	16.76

<sup>1</sup> Includes Full, Limited and Inactive registrants.

<sup>2</sup> Excludes 48 PTs with missing or invalid year of graduation.

\* Indicates that the base for the mean is less than 3.

**Table 5**  
**Mean Years since First Registration in B.C. for Physical Therapists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years	N	Mean Years
1 East Kootenay	4	15.25	7	11.14	3	1.67	4	9.00	2	*	20	9.35	9	16.78	1	*	30	11.30
2 West Kootenay - Boundary	13	4.77	7	2.43	2	*	8	12.13	2	*	32	6.09	15	14.20	1	*	48	8.60
4 North Okanagan	17	10.18	2	*	6	10.67	4	4.25	3	10.33	32	9.84	24	13.79	1	*	57	11.35
5 South Okanagan - Similkameen	30	8.77	11	9.45	12	8.08	9	7.33	9	11.33	71	8.90	39	14.38	0	*	110	10.85
6 Thompson Valley	13	13.38	5	10.40	4	15.00	4	11.00	2	*	28	12.89	14	13.64	0	*	42	13.14
7 Upper Fraser Valley	14	4.36	4	5.75	4	4.50	8	8.88	5	12.00	35	6.66	21	11.24	2	*	58	8.17
9 South Fraser Valley	34	12.68	13	7.38	14	10.07	16	8.94	7	11.43	84	10.61	56	11.11	1	*	141	10.74
10 Simon Fraser	38	10.53	7	7.14	7	9.71	19	8.26	6	5.67	77	9.21	34	10.41	1	*	112	9.50
11 Coast Garibaldi	10	8.10	3	7.00	0	*	9	8.33	3	5.00	25	7.68	10	8.10	0	*	35	7.80
13 Central Vancouver Island	18	10.33	9	11.11	10	10.50	10	6.10	5	6.20	52	9.29	32	13.28	1	*	85	10.74
14 North Island/Mid Coast	18	11.61	2	*	2	*	2	*	3	19.00	27	11.37	15	13.53	1	*	43	11.95
15 Cariboo	3	15.67	1	*	3	20.67	1	*	3	5.33	11	11.45	9	11.44	0	*	20	11.45
16 North West	8	12.63	1	*	1	*	4	8.00	5	7.20	19	10.16	9	10.56	0	*	28	10.29
17 Peace River - Liard	4	16.25	1	*	0	*	4	10.75	1	*	10	12.40	9	8.22	0	*	19	10.42
18 Northern Interior	19	11.84	5	9.40	2	*	2	*	3	10.33	31	10.94	13	13.54	0	*	44	11.70
20 Vancouver	122	8.50	19	9.32	23	9.43	52	8.02	29	14.28	245	9.23	187	11.66	5	12.80	437	10.31
30 Burnaby	18	10.72	2	*	2	*	6	10.17	6	9.33	34	11.03	21	9.52	1	*	56	10.50
40 North Shore	14	13.50	2	*	9	14.78	12	11.75	6	9.67	43	12.19	43	13.33	2	*	88	12.49
50 Richmond	35	11.23	3	5.33	4	13.00	5	7.60	6	8.33	53	10.36	28	10.57	3	1.00	84	10.10
60 Capital Health	48	10.90	34	6.94	18	10.56	34	8.26	13	8.54	147	9.12	63	15.35	3	1.00	213	10.85
TOTAL	480	10.15	138	8.04	126	10.39	213	8.54	119	10.30	1,076	9.61	651	12.34	23	4.70	1,750	10.56

<sup>1</sup> Includes Full, Limited and Inactive registrants.

<sup>2</sup> Excludes 432 PTs with missing or invalid year of registration in B.C.

\* Indicates that the base for the mean is less than 3

**Table 6**  
**Mean Age of Physical Therapists<sup>1,2</sup> in British Columbia**  
**by Health Region by Place of Graduation**  
**December 1995**

Health Region	Place of Graduation																	
	B.C.		Alberta		Saskatchewan & Manitoba		Ontario		Other Canada		Canada Subtotal		Other Country		Unknown		TOTAL	
	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age	N	Mean Age
1 East Kootenay	5	39.80	7	38.14	4	31.75	5	41.20	3	33.33	24	37.46	9	45.33	1	*	34	39.35
2 West Kootenay - Boundary	15	36.80	7	36.57	2	*	8	39.75	3	33.33	35	37.17	18	44.61	0	*	53	39.70
4 North Okanagan	21	37.33	6	46.00	6	39.00	4	34.00	3	48.00	40	39.35	28	44.61	1	*	69	41.29
5 South Okanagan - Similkameen	40	35.90	12	40.00	15	38.33	13	38.00	10	38.10	90	37.40	47	45.19	0	*	137	40.07
6 Thompson Valley	17	39.88	5	39.20	5	40.00	5	44.60	3	39.67	35	40.46	17	45.35	0	*	52	42.06
7 Upper Fraser Valley	21	35.29	9	45.89	5	37.40	8	36.13	5	37.60	48	37.88	25	43.00	2	*	75	39.49
9 South Fraser Valley	42	38.79	16	39.69	15	37.53	18	37.72	7	41.57	98	38.74	66	42.62	1	*	165	40.35
10 Simon Fraser	44	36.89	10	39.10	10	37.90	22	36.05	7	32.57	93	36.71	47	45.30	1	*	141	39.51
11 Coast Garibaldi	13	37.31	4	36.00	0	*	10	42.30	3	41.33	30	39.20	15	41.00	0	*	45	39.80
13 Central Vancouver Island	22	38.59	11	40.18	13	41.77	12	37.58	5	38.80	63	39.35	43	45.33	0	*	106	41.77
14 North Island/Mid Coast	23	39.74	2	*	3	34.33	4	40.00	3	48.00	35	39.74	19	43.58	0	*	54	41.09
15 Cariboo	7	40.14	1	*	3	43.00	1	*	3	34.00	15	37.53	9	39.44	1	*	25	39.28
16 North West	9	37.22	1	*	2	*	4	36.75	5	32.60	21	37.24	9	41.33	1	*	31	38.74
17 Peace River - Liard	4	41.00	2	*	0	*	4	40.00	0	*	10	41.30	9	37.44	0	*	19	39.47
18 Northern Interior	20	38.40	5	38.60	3	38.33	2	*	3	34.33	33	38.39	13	38.69	0	*	46	38.48
20 Vancouver	152	36.68	22	39.27	28	37.79	65	38.00	37	39.76	304	37.63	221	41.29	6	45.50	531	39.24
30 Burnaby	24	37.67	3	42.33	2	*	8	40.13	9	41.33	46	39.28	25	40.00	1	*	72	39.51
40 North Shore	17	41.24	2	*	9	43.00	14	41.86	7	36.71	49	40.57	65	44.23	1	*	115	42.50
50 Richmond	45	38.76	7	41.14	4	36.25	5	34.80	7	35.14	68	38.19	35	42.34	2	*	105	39.44
60 Capital Health	51	38.45	39	37.67	24	41.63	45	42.98	19	39.42	178	39.96	79	47.72	4	36.00	261	42.25
TOTAL	592	37.71	171	39.30	153	39.22	257	39.21	142	38.56	1,315	38.48	799	43.28	22	38.86	2,136	40.28

<sup>1</sup> Includes Full, Limited and Inactive registrants.

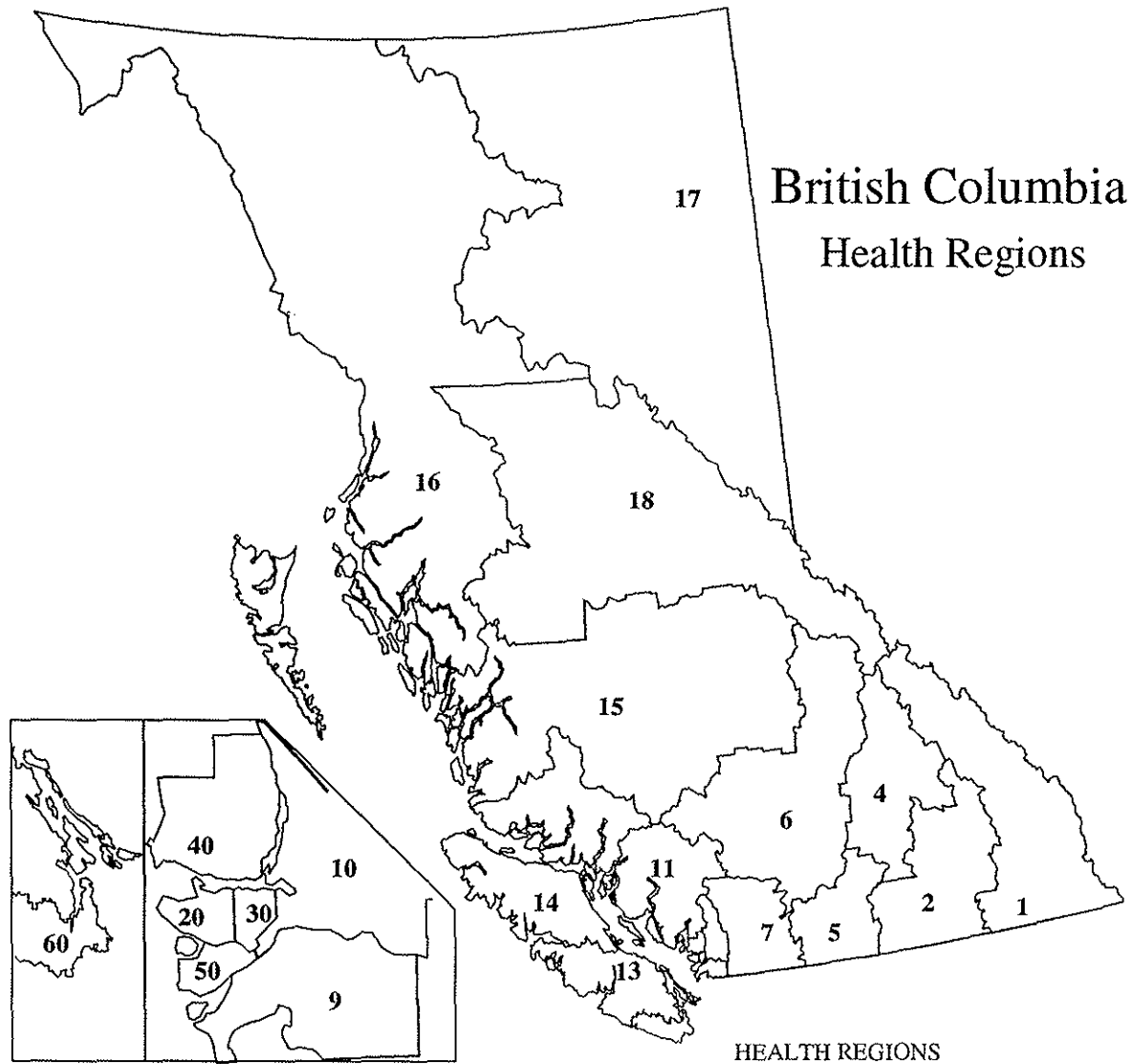
<sup>2</sup> Excludes 46 PTs with missing or invalid age.

\* Indicates that the base for the mean is less than 3



## Appendix A

### British Columbia, and Local Health Regions



- |                                |                           |
|--------------------------------|---------------------------|
| 1 East Kootenay                | 14 North Island/Mid Coast |
| 2 West Kootenay - Boundary     | 15 Cariboo                |
| 4 North Okanagan               | 16 North West             |
| 5 South Okanagan - Similkameen | 17 Peace River - Liard    |
| 6 Thompson Valley              | 18 Northern Interior      |
| 7 Upper Fraser Valley          | 20 Vancouver              |
| 9 South Fraser Valley          | 30 Burnaby                |
| 10 Simon Fraser                | 40 North Shore            |
| 11 Coast Garibaldi             | 50 Richmond               |
| 13 Central Vancouver Island    | 60 Capital Health         |

**Conversion Table**  
**Broad Health Region Groupings, B.C. Health Regions, and Local Health Areas**

<b>Broad HR Groupings</b>	<b>B.C. Health Region(s)</b>	<b>Local Health Area(s)</b>	
Vancouver and District	9 South Fraser Valley	35 Langley 36 Surrey	37 Delta
	10 Simon Fraser	40 New Westminster 42 Maple Ridge	43 Coquitlam
	20 Vancouver	39 Vancouver	
	30 Burnaby	41 Burnaby	
	40 North Shore	44 North Vancouver	45 West Vancouver
	50 Richmond	38 Richmond	
Capital	60 Capital Health	61 Greater Victoria 62 Sooke	63 Saanich 64 Gulf Islands
Other B.C.	1 East Kootenay	1 Fernie 2 Cranbrook 3 Kimberley	4 Windermere 5 Creston 18 Golden
	2 West Kootenay - Boundary	6 Kootenay Lake 7 Nelson 9 Castlegar 10 Arrow Lakes	11 Trail 12 Grand Forks 13 Kettle Valley
	4 North Okanagan	19 Revelstoke 20 Salmon Arm 21 Armstrong-Spallumcheen	22 Vernon 78 Enderby
	5 South Okanagan - Similkameen	14 Southern Okanagan 15 Penticton 16 Keremeos	17 Princeton 23 Central Okanagan 77 Summerland
	6 Thompson Valley	24 Kamloops 26 North Thompson 29 Lillooet	30 South Cariboo 31 Merritt
	7 Upper Fraser Valley	32 Hope 33 Chilliwack 34 Abbotsford	75 Mission 76 Agassiz - Harrison
	11 Coast Garibaldi	46 Sunshine Coast 47 Powell River	48 Howe Sound
	13 Central Vancouver Island	65 Cowichan 66 Lake Cowichan 67 Ladysmith	68 Nanaimo 69 Qualicum 70 Alberni
	14 North Island/Mid Coast	71 Courtenay 72 Campbell River	84 Vancouver Island West 85 Vancouver Island North
	15 Cariboo	27 Cariboo - Chilcotin 28 Quesnel	49 Central Coast
	16 North West	50 Queen Charlotte 52 Prince Rupert 54 Smithers 80 Kitimat	87 Stikine 88 Terrace 92 Nishga 94 Telegraph Creek
	17 Peace River - Liard	59 Peace River South 60 Peace River North	81 Fort Nelson
	18 Northern Interior	55 Burns Lake/Eutsuk Lake 56 Nechako	57 Prince George

Source: Health Economics and Planning Branch, British Columbia Ministry of Health

10/94





## Appendix B

### Population Estimates for British Columbia by Health Region



**Population Estimates<sup>1</sup> for British Columbia  
by Health Region  
1995**

Health Region	1995
1 East Kootenay	76,473
2 West Kootenay - Boundary	80,037
4 North Okanagan	116,902
5 South Okanagan - Similkameen	220,701
6 Thompson Valley	125,282
7 Upper Fraser Valley	226,103
9 South Fraser Valley	510,548
10 Simon Fraser	288,884
11 Coast Garibaldi	70,921
13 Central Vancouver Island	232,411
14 North Island/Mid Coast	115,317
15 Cariboo	71,701
16 North West	90,638
17 Peace River - Liard	62,346
18 Northern Interior	124,681
20 Vancouver	525,328
30 Burnaby	175,740
40 North Shore	173,324
50 Richmond	142,914
60 Capital Health	331,966
<b>TOTAL</b>	<b>3,762,217</b>

<sup>1</sup> Population estimates supplied by the Central Statistics Branch, Ministry of Government Services are from the P.E.O.P.L.E. Projection Model - Projection #20.



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