

DCNZ



**Dental Council**  
of New Zealand

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Te Kaunihera Tiaki  
Niho o Aotearoa

Dental Council of New Zealand

## 2003 Workforce Analysis

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## Executive summary and commentary

### Numbers

In March 2003, the DCNZ conducted a “purge” of the Register. All registered dentists were issued with update forms which sought information on their intentions for the year ending 31 May 2004. Those who intended to practise in NZ were asked to apply for an APC and would be categorised as ‘F’. Those who did not intend to practise in NZ were required to choose one of the options listed below.

Dentists aged up to 65 years:

- staying on the Register for an annual fee of \$50 (category ‘F(N)’); or
- being removed from the Register (category ‘R’).

Dentists over 65 years of age:

- staying on the Register for a one-off fee of \$250 (category ‘F(R)’); or
- being removed from the Register (category ‘R’).

This has resulted in a considerable drop in the number of registered dentists. The circumstances in 2003 of the 2419 dentists with full registration in the 2002 Register are summarised below:

Full registration (‘F’)	1852 (76.6%)
Full registration, non-practising (‘F(R)’)	289 (11.9%)
Full registration, over 65, non-practising (‘F(R)’)	10 (0.4%)
Removed from Register	268 (11.1%)
Total	2419 (100.0%)

### Sociodemographic characteristics of workforce

The steady rise in the active workforce continued. For the first time, females comprise more than 25% of the active workforce (Figure 1). Where ethnicity is concerned, NZ Europeans make up almost two-thirds of the active workforce. Chinese and Indian dentists are the next most numerous groups. The percentage of Māori dentists is increasing, but the slow rate of that increase is of concern. Just over one-third of active dentists are in the 50+ age group.

The rise in the percentage of overseas graduates in the active workforce continued, and they now comprise 19.7% of the active workforce (Figure 1). The most common countries of origin for overseas graduates’ dental qualifications were (in descending order) Britain, South Africa, Iraq, India and Australia.

## **Workforce survey**

### *Response rate*

This was slightly higher than the previous year's 94%, with replies from 95% of dentists with an APC; 80 active dentists failed to respond. The response rate remains comfortably higher than the 80% required by the NZHIS contract.

### *Employment rates*

Employment rates remain very high; 8 individuals were seeking dental work. At 484, the number of part-time practitioners was greater than the previous years' 476, but no real difference was discernible in the reasons for part-time work.

### *Postgraduate education and continuing professional development (CPD)*

There were two more dentists undergoing postgraduate education than in the previous year; half of those doing so were studying for an MDS, and 14% for another Masters. While the majority intend to practise in NZ upon completion, that figure was down slightly on the previous year. It was heartening to note two new students in the broad category of oral medicine/oral pathology.

There was an encouraging increase in participation in CPD (which perhaps is a reflection of the pending realities of the HPCA), both in the percentage of dentists having undertaken 20+ hours in the previous year, and in the percentage having done 20+ hours in each of the previous 3 years. Two-thirds of active practitioners had done 20+ hours of CPD in at least 2 of the previous 3 years, and the percentage meeting that criterion in none of the previous 3 years was lower than last year. These are encouraging trends.

### *Practice characteristics*

The distribution of dentists by practice type (approximately 60% in group practice) was similar to the previous survey, and there was no change in the average number of employment hours per week for either general dentists or specialists. The latter continued to work longer hours (on average) than general dentists. While 23% of specialists reported working more than 40 hours per week, the equivalent estimate for general dentists was 13%.

### *Cohort remainder rates*

The first-year cohort remainder rate for NZ-funded University of Otago 2002 dental graduates was 48.4%, which continues the relatively low retention of graduates over

recent years, and justifies the caution with which last year's improvement was received. It is noteworthy that a substantial proportion of the 2002 graduates who left New Zealand are currently in Australia.

Cohort remainder rates for dentists registering through the NZDREX remain high, and indicate that, on average, approximately three-quarters of those who pass the NZDREX remain in New Zealand.

### *Distribution of dentists*

As with last year's report, the dentist-to-population ratio data are presented this year by District Health Board (DHB) area rather than by Area Health Board (AHB) area. The dentist-to-population ratio estimates by DHB indicate that the Counties-Manukau, Tairāwhiti, Wanganui and West Coast DHBs are under-served, compounded by geographic access problems in the West Coast and Tairāwhiti areas. The estimates by TLA reveal considerable variation, but confirm the DHB patterns.

### **Author's comments on the workforce analysis process**

I would appreciate receiving any feedback or comments on this report (please email these to: [mthomson@gandalf.otago.ac.nz](mailto:mthomson@gandalf.otago.ac.nz)) that readers may have. Suggestions on how to improve the format and presentation will also be very welcome. I am grateful to DCNZ staff (particularly Kelly Etuata and Jeanette McKeogh for their support and prompt responses to my many queries).

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**Table 1. Estimated number of dentists in the active workforce by year**

Year	Total	% Male	% Female	% Overseas graduates
1983	1142	93.8	6.3	6.2
1984	1148	93.7	6.3	5.3
1985	1176	92.6	7.4	4.9
1986	1204	91.8	8.2	5.1
1987	1219	90.2	9.8	6.3
1988	1233	88.7	11.3	6.4
1989	1215	88.1	11.9	5.8
1990	1226	87.4	12.6	6.4
1991	1262	86.7	13.3	6.7
1992	1287	85.2	14.8	6.8
1993	1306	84.2	15.8	7.4
1994	1312	84.0	16.0	7.5
1995	1346	83.2	16.8	8.8
1996	1364	81.7	18.3	8.4
1997	1473	79.5	20.5	12.1
1998	1496	79.0	21.0	13.1
1999	1558	77.2	22.8	14.5
2000	1591	76.4	23.6	16.1
2001	1601	76.3	23.7	16.9
2002	1645	75.6	24.4	18.2
2003	1662	74.5	25.5	19.7

(Data source: Dental Register)

**Table 2. Longitudinal analysis of the cohort remainder rate of University of Otago dental graduates**

Year	Year of graduation (percentage cohort remainder rate)									
	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993
2003	48.4 <sup>a</sup>	65.0	46.7	46.6	54.5	34.6	48.0	58.0	56.9	68.8
2002		71.7	52.5	51.7	50.9	38.5	44.4	54.0	65.5	72.9
2001			62.5	74.6	50.9	34.5	46.3	48.2	61.4	69.2
2000				81.8	61.8	44.8	42.6	50.0	61.4	71.2
1999					70.9	62.1	57.4	46.3	57.8	71.1
1998						70.7	70.4	51.9	52.6	59.6

<sup>a</sup>Of the 65 Otago BDS graduates in the 2002 class, 3 were externally-funded. Of the remaining 62, 32 had no APC04, giving a cohort remainder rate of 48.4% (30/62).

(Data sources: Dental Register and School of Dentistry records)



**Table 3. Response rates to 2003 Workforce Questionnaire**

The response rate to the questionnaire from the active dentist workforce was 95%.

Response rates by type of practitioner were as follows:

Current registration status	Total number of practitioners	Number responding to questionnaire	Response Rate
Full Registration	1905	1589	83.4
Full Registration and APC 04	1662	1582	95.2
Full Registration but no APC 04	243	7	2.9

(At 30 November 2003)

(Data sources: Dental Register and Workforce Survey)

**Table 4. Age by current registration status**

Please note: unless otherwise indicated, brackets contain percentages in this and all following tables.

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
Age group			
Under 30 years	258 (13.5)	186 (11.2)	72 (29.6)
30-34 years	185 (9.7)	160 (9.6)	25 (10.3)
35-39 years	235 (12.3)	199 (12.0)	36 (14.8)
40-44 years	308 (16.2)	286 (17.2)	22 (9.1)
45-49 years	260 (13.6)	241 (14.5)	19 (7.8)
50-54 years	183 (9.6)	178 (10.7)	5 (2.1)
55-59 years	179 (9.4)	162 (9.7)	17 (7.0)
60-64 years	131 (6.9)	123 (7.4)	8 (3.3)
65+ years	166 (8.7)	127 (7.6)	39 (16.0)
Total	1905 (100.0)	1662 (100.0)	243 (100.0)

(Data source: Dental Register)

**Table 5. Ethnicity (primary and secondary) among those with full registration and APC 04**

Ethnicity	Primary	Secondary	Total <sup>a</sup>
NZ European	1049	1	1050 (65.4)
Māori	5	26	31 (2.2)
Samoan	3	0	3 (0.2)
Cook Island Māori	0	1	1 (0.1)
Tongan	1	1	2 (0.2)
Fijian	3	1	
Niuean	0	0	0 (0.0)
Chinese	158	7	165 (10.3)
Indian	72	2	74 (4.6)
Other (eg Dutch, Iraqi)	239	15	254 (15.8)
Not given/unknown	21		
Total	1551	54	1605 (100.0)
No response to questionnaire	31		

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<sup>a</sup>An element of inaccuracy is introduced here, with the counting twice of individuals belonging to two ethnic groups; however, the approach used here has been used in previous years and is retained for comparison purposes.

(Data source: Workforce Survey)

**Table 6. Gender by current registration status**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
Gender			
Male	1408 (73.9)	1239 (74.5)	169 (69.5)
Female	497 (26.1)	423 (25.5)	74 (30.5)
Total	1905 (100.0)	1662 (100.0)	243 (100.0)

(Data source: Dental Register)

**Table 7. Reasons for part-time employment**

Full registration and APC 04	
Reason	
Engaged in non-dental work	28 (5.6)
Insufficient dental work	24 (5.0)
Seeking dental work	9 (1.9)
Semi-retired from dentistry	72 (14.9)
Parental responsibilities	117 (24.2)
Personal choice	188 (38.8)
Other (see below)	46 (9.5)
Total	484 (100.0)

Other reasons offered:

- Studying
- Health problems
- Locum work with variable hours
- Teaching
- Contractual stipulation
- Management duties

(Data source: Workforce Survey)

**Table 8. Overseas and non-practising dentists**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
Employment status			
Overseas and not practising	5 (11.4)	4 (10.8)	1 (14.3)
Practising overseas	14 (31.8)	10 (27.0)	4 (57.1)
In NZ but not practising	25 (56.8)	23 (62.2)	2 (28.6)
Total	44 (100.0)	37 (100.0)	7 (100.0)
Employment status of 'In NZ but not practising' group			
Another health profession	4 (13.3)	4 (14.3)	0 (0.0)
Non-health profession	1 (3.3)	1 (3.6)	0 (0.0)
Full-time study	2 (6.7)	2 (7.1)	0 (0.0)
Parental responsibilities	10 (33.3)	10 (35.7)	0 (0.0)
Other unpaid work	1 (3.3)	1 (3.6)	0 (0.0)
Seeking work	9 (30.0)	8 (28.6)	1 (50.0)
Retired	3 (10.0)	2 (7.1)	1 (50.0)
Other	0 (0.0)	0 (0.0)	0 (0.0)
Not stated	0 (0.0)	0 (0.0)	0 (0.0)

(Data source: Workforce Survey)

**Table 9. Postgraduate training**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
Undertaking PG training			
Yes	44 (2.9)	44 (2.9)	0 (0.0)
No	1461 (97.1)	1455 (97.1)	6 (100.0)
Expected qualification			
MDS	22 (50.0)	22 (50.0)	0 (0.0)
Other Masters degree	6 (13.6)	6 (13.6)	0 (0.0)
PG Diploma	1 (2.3)	1 (2.3)	0 (0.0)
Fellowship	6 (13.6)	6 (13.6)	0 (0.0)
PhD	4 (9.1)	4 (9.1)	0 (0.0)
Other	5 (11.4)	5 (11.4)	0 (0.0)
Not stated	0 (0.0)	0 (0.0)	0 (0.0)
Expected year of completion			
2003	12 (27.3)	12 (27.3)	0 (0.0)
2004	13 (29.5)	13 (29.5)	0 (0.0)
2005	11 (25.0)	11 (25.0)	0 (0.0)
2006	4 (9.9)	4 (9.9)	0 (0.0)
2007	3 (6.8)	3 (6.8)	0 (0.0)
Beyond 2007	1 (2.3)	1 (2.3)	0 (0.0)
Intend to practise in NZ?			
Yes	38 (86.4)	38 (86.4)	0 (0.0)
No	6 (13.6)	6 (13.6)	0 (0.0)
Total	44 (100.0)	44 (100.0)	0 (0.0)

(Data source: Workforce Survey)

**Table 9a. Branch of dentistry in which postgraduate training being undertaken<sup>a</sup>**

	Full registration and APC 04
Branch of dentistry	
General dentistry	4 (9.1)
Administration/Management	0 (0.0)
Dental public health	6 (13.6)
Endodontics	4 (9.1)
Hospital dentistry	0 (0.0)
Oral Medicine & Pathology	2 (4.5)
Oral Surgery	0 (0.0)
Oral & maxillofac. surgery	7 (15.9)
Orthodontics	7 (15.9)
Paediatric dentistry	1 (2.3)
Periodontics	6 (13.6)
Research	0 (0.0)
Restorative dentistry	0 (0.0)
Prosthodontics	2 (4.5)
Teaching	1 (2.3)
Other	2 (4.5)
Not stated	2 (4.5)
<b>Total</b>	<b>44 (100.0)</b>

<sup>a</sup>Data not broken down by registration status because all of those undergoing training were in the same registration category.

(Data source: Workforce Survey)



**Table 10. Continuing education**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
20 or more hours last year			
Yes	1127 (72.7)	1123 (72.7)	4 (67.7)
No	423 (27.3)	421 (27.3)	2 (33.3)
Total	1550 (100.0)	1544 (100.0)	6 (100.0)
No reply to question	39	38	1

(Data source: Workforce Survey)

**Table 11. Continuing education over the last three years**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
20 or more hours:			
In all three years	692 (43.5)	691 (43.7)	1 (14.3)
In two of the three years	369 (23.2)	368 (23.3)	1 (14.3)
In one of the three years	285 (17.9)	283 (17.9)	2 (28.6)
In none of the three years	243 (15.3)	240 (15.2)	3 (42.9)
Total	1589 (100.0)	1582 (100.0)	7 (100.0)

(Data source: 2003, 2002 and 2001 Workforce Surveys)

**Table 12. Work type by primary employer – specialists only<sup>a</sup>**

	MoH or DHB		Private (self-emp.)		Private (emp.)		University Dental School		Gov't Dept	
	No.	Mean hrs (sd)	No.	Mean hrs (sd)	No.	Mean hrs (sd)	No.	Mean hrs (sd)	No.	Mean hrs (sd)
General Dentistry	0		9	13 (5)	1	44 (—)	4	7 (5)	0	
Administration/Management	2	31 (27)	1	4 (—)	0		6	8 (5)	0	
Dental Public Health	5	29 (15)	0		0		2	5 (0.0)	0	
Endodontics	0		9	29 (15)	0		4	11 (6)	0	
Hospital Dentistry	6	31 (18)	0		0		1	10 (—)	0	
Oral Medicine & Pathology	3	23 (21)	1	4 (—)	0		5	20 (19)	0	
Oral Surgery	2	26 (20)	4	23 (15)	1	40 (—)	1	1 (—)	0	
Oral & Maxillofacial Surgery	4	33 (18)	24	32 (14)	0		5	38 (24)	0	
Orthodontics	4	9 (2)	56	34 (10)	2	25 (7)	6	20 (12)	0	
Paediatric Dentistry	2	18 (20)	3	33 (3)	0		4	14 (12)	0	
Periodontics	1	5 (—)	17	32 (13)	0		5	13 (14)	0	
Research	0		0		0		13	10 (6)	0	
Restorative Dentistry	2	17 (10)	12	20 (10)	2	33 (21)	1	3 (—)	0	
Prosthodontics	0		5	18 (15)	1	18 (—)	6	19 (17)	0	
Teaching	1	4 (—)	1	4 (—)	0		23	16 (12)	0	
Other	0		1	4 (—)	0		0		0	
No hours recorded	3		10		1		1		1	
Number of dentists 1+ hours per week	25		124		6		41		0	
Total number of dentists	28		134		7		42		1	

<sup>a</sup>This information not sought from non-specialists

(Data source: Workforce Survey)

**Table 12a. Work type by secondary employer – specialists (or specialist trainees) only<sup>a</sup>**

	MoH or DHB		Private (self-emp.)		Private (emp.)		University Dental School		Gov't Dept	
	No.	Mean hrs (sd)	No.	Mean hrs (sd)	No.	Mean hrs (sd)	No.	Mean hrs (sd)	No.	Mean hrs (sd)
General Dentistry	0		2	10 (7)	1	3 (—)	1	3 (—)	0	
Administration/Management	2	11 (13)	0		0		0		0	
Dental Public Health	0		0		0		0		0	
Endodontics	0		3	3 (1)	1	3 (—)	0		0	
Hospital Dentistry	1	6 (3)	0		0		0		0	
Oral Medicine & Pathology	0		1	4 (—)	0		0		0	
Oral Surgery	1	5 (—)	2	14 (9)	0		0		0	
Oral & Maxillofacial Surgery	13	16 (6)	2	10 (4)	1	2 (—)	0		0	
Orthodontics	7	10 (9)	0		0		1	4 (—)	0	
Paediatric Dentistry	1	8 (—)	0		0		1	8 (—)	0	
Periodontics	2	7 (8)	3	10 (6)	0		0		0	
Research	0		0		0		0		0	
Restorative Dentistry	1	9 (—)	0		0		0		0	
Prosthodontics	1	4 (—)	2	9 (1)	0		0		0	
Teaching	0		0		0		3	5 (3)	0	
Other	1	4 (—)	0		0		0		0	
No hours recorded	3		3		1		1		1	
Number of dentists 1+ hours per week	29		14		3		6		0	
Total number of dentists	32		17		4		7		1	

<sup>a</sup>This information not sought from non-specialists

(Data source: Workforce Survey)

**Table 13. Work type by primary and secondary employer – generalists only, reduced categories**

	Mean hours (sd) spent at work type		
	General dentistry	Teaching <sup>b</sup>	Administration <sup>b</sup>
<b>Primary employer</b>			
Private practice (self-emp) <sup>a</sup>	34 (10)	0 (—)	0 (—)
Private practice, employee	33 (11)	0 (—)	0 (—)
DHB or Min. of Health	27 (17)	0 (—)	4 (10)
University Dental School	10 (15)	17 (16)	3 (11)
Gov't Dept	29 (14)	0 (—)	3 (10)
Other	26 (13)	0 (—)	2 (9)
<b>Secondary employer</b>			
Private practice (self-emp) <sup>a</sup>	11 (8)	0 (—)	0 (—)
Private practice, employee	10 (6)	0 (—)	0 (—)
DHB or Min. of Health	8 (7)	0 (—)	2 (4)
University Dental School	3 (5)	4 (3)	0 (—)
Gov't Dept	5 (2)	0 (—)	0 (—)
Other	3 (4)	0 (—)	2 (3)

<sup>a</sup>Solo or group practice

<sup>b</sup>Where specifically employed to do so  
(Data source: Workforce Survey)

No. of respondents providing data on 1 <sup>o</sup> work type	1332
No. of respondents providing data on 2 <sup>o</sup> work type	96
No. of general dentists responding	1604

**Please note:** Where the various categories of publicly-funded practice are concerned, this Table should be interpreted with caution, as there appears to be some confusion among respondents with respect to whether a hospital dental department falls under the 'DHB', 'Government Department' or 'Other' categories. This is probably due in no small part to the large number of health-sector reorganisations which have taken place over the last two decades.

**Table 14. Type of practice**

Full registration and APC 04	
Type of practice <sup>a</sup>	
Solo practice	486 (40.3)
Group practice	708 (59.7)
Total	1194 (100.0)
Employee dentists	328
Other forms of employment	27
No reply to question	4
No reply to questionnaire	77

<sup>a</sup>Note: only the information on the first employer was analysed

The 328 employee dentists were distributed as follows:

Private practice	163
DHB/MoH	93
University Dental School	55
Other	17 <sup>a</sup>

(Data source: Workforce Survey)

[<sup>a</sup>The caveat which applies to Table 13 also applies for this Table]

**Table 15. Total number of hours worked per week**

	Full registration and APC 04		
	All combined	General dentists	Specialist dentists
Number of hours worked			
1 to 10	68 (4.3)	53 (3.9)	15 (6.7)
11 to 20	109 (6.9)	92 (6.8)	17 (7.6)
21 to 30	207 (13.1)	189 (13.9)	18 (8.1)
31 to 40	909 (57.4)	809 (59.4)	100 (44.8)
41 to 50	188 (11.9)	151 (11.1)	37 (16.6)
51 to 60	35 (2.2)	23 (1.7)	12 (5.4)
More than 60	5 (0.3)	3 (0.2)	2 (0.9)
Nil or no response	64 (4.0)	42 (3.1)	22 (9.9)
Total	1585 (100.0)	1362 (100.0)	223 (100.0)
Mean no. of hours/week (sd)	33.4 (12.0)	33.5 (11.2)	32.4 (16.2)

No. of respondents working at least 1 hour per week 1521

No. of FTE dentists from respondents working 1+ hours/week  
(If <40 hours counted as part FTE and 40+ is 1FTE) 1271.2

No. of FTE dentists from respondents working 1+ hours/week  
(If all hours counted as proportion of FTE and 40 hours is 1FTE) 1316.4

‘ (Data source: Workforce Survey)

**Table 16. Country of qualification by current registration status**

	Full regn. – all dentists	Full regn. and APC 04	Full regn. and no APC 04
<b>Qualification source</b>			
New Zealand	1535 (80.6)	1335 (80.3)	200 (82.3)
Overseas	370 (19.4)	327 (19.7)	43 (17.7)
<b>Total</b>	<b>1905 (100.0)</b>	<b>1662 (100.0)</b>	<b>243 (100.0)</b>
<b>Country of qualification</b>			
Australia	23 (6.2)	18 (5.5)	5 (11.6)
Bangladesh	1 (0.3)	0 (0.0)	1 (2.3)
Bolivia	1 (0.3)	0 (0.0)	1 (2.3)
Brazil	1 (0.3)	1 (0.3)	0 (0.0)
Bulgaria	1 (0.3)	1 (0.3)	0 (0.0)
Canada	3 (0.8)	2 (0.6)	1 (2.3)
China	5 (1.4)	5 (1.5)	3 (7.0)
Czech Republic	3 (0.8)	3 (0.9)	0 (0.0)
Egypt	4 (1.1)	2 (0.6)	2 (4.7)
Fiji	1 (0.3)	1 (0.3)	0 (0.0)
France	1 (0.3)	1 (0.3)	0 (0.0)
Germany	3 (0.8)	3 (0.9)	0 (0.0)
Holland	2 (0.5)	2 (0.6)	0 (0.0)
India	42 (11.4)	34 (10.4)	8 (18.6)
Iraq	40 (10.8)	39 (11.9)	1 (2.3)
Ireland	4 (1.1)	4 (1.2)	0 (0.0)
Israel	1 (0.3)	1 (0.3)	0 (0.0)
Korea	4 (1.1)	4 (1.2)	0 (0.0)
Macedonia	1 (0.3)	1 (0.3)	0 (0.0)
Pakistan	1 (0.3)	0 (0.0)	1 (2.3)
Phillipines	4 (1.1)	4 (1.2)	0 (0.0)
Poland	2 (0.5)	1 (0.3)	1 (0.0)
Romania	3 (0.8)	2 (0.6)	1 (2.3)
Russia	4 (1.1)	4 (1.2)	0 (0.0)
Serbia	1 (0.3)	1 (0.3)	0 (0.0)
Singapore	3 (0.8)	3 (0.9)	0 (0.0)
South Africa	47 (12.7)	43 (13.1)	4 (9.3)
Sri Lanka	5 (1.4)	5 (1.5)	0 (0.0)
Sweden	2 (0.5)	2 (0.6)	0 (0.0)
Syria	1 (0.3)	1 (0.3)	0 (0.0)
Taiwan	2 (0.5)	2 (0.6)	0 (0.0)
Thailand	2 (0.3)	2 (0.6)	0 (0.0)
Turkey	1 (0.3)	0 (0.0)	1 (2.3)
Ukraine	2 (0.5)	2 (0.6)	0 (0.0)
United Kingdom	128 (34.6)	111 (33.9)	17 (39.5)
USA	8 (2.2)	7 (2.1)	1 (2.3)
USSR	1 (0.3)	1 (0.3)	0 (0.0)
Yugoslavia	8 (2.2)	7 (2.1)	1 (2.3)

(Data source: Dental Register)

**Table 17. Cohort remainder rate for University of Otago graduates**

Graduation cohort	All dentists		Full registration and APC 04	
	Years since graduation	Number of graduates	Number of dentists	Cohort remainder rate
1941-1946	57-62	85 (3.3)	2 (0.1)	2.4
1947-1950	53-56	128 (4.9)	3 (0.2)	2.3
1951-1955	48-52	175 (6.7)	10 (0.7)	5.7
1956-1960	43-47	176 (6.7)	52 (3.9)	29.5
1961-1965	38-42	188 (7.2)	96 (7.2)	51.1
1966-1970	33-37	239 (9.1)	143 (10.7)	59.8
1971-1975	28-32	212 (8.1)	133 (9.9)	62.7
1976-1980	23-27	272 (10.4)	181 (13.5)	66.5
1981-1985	18-22	269 (10.3)	212 (15.8)	78.8
1986-1990	13-17	224 (8.6)	156 (11.7)	69.6
1991	12	44 (1.7)	27 (2.0)	61.3
1992	11	47 (1.8)	29 (2.2)	61.7
1993	10	48 (1.8)	33 (2.5)	68.8
1994	9	58 (2.2)	33 (2.5)	56.9
1995	8	50 (1.9)	29 (2.2)	58.0
1996	7	54 (2.1)	26 (1.9)	48.0
1997	6	52 (2.0)	18 (1.3)	34.6
1998	5	55 (2.1)	30 (2.2)	54.5
1999	4	58 (2.2)	27 (2.0)	46.6
2000	3	60 (2.3)	28 (2.1)	46.7
2001	2	60 (2.3)	39 (2.9)	65.0
2002	1	59 (2.3)	31 (2.3)	52.5 <sup>a</sup>
Total		2613 (100.0)	1338 (100.0)	51.2

<sup>a</sup>Please note that the data in this Table come from the Register itself; a number of each year's new Otago graduates do not go onto the Register, and so the cohort remainder rate for NZ-funded graduates must be manually calculated. That figure is presented in Table 2, and differs from that presented here.



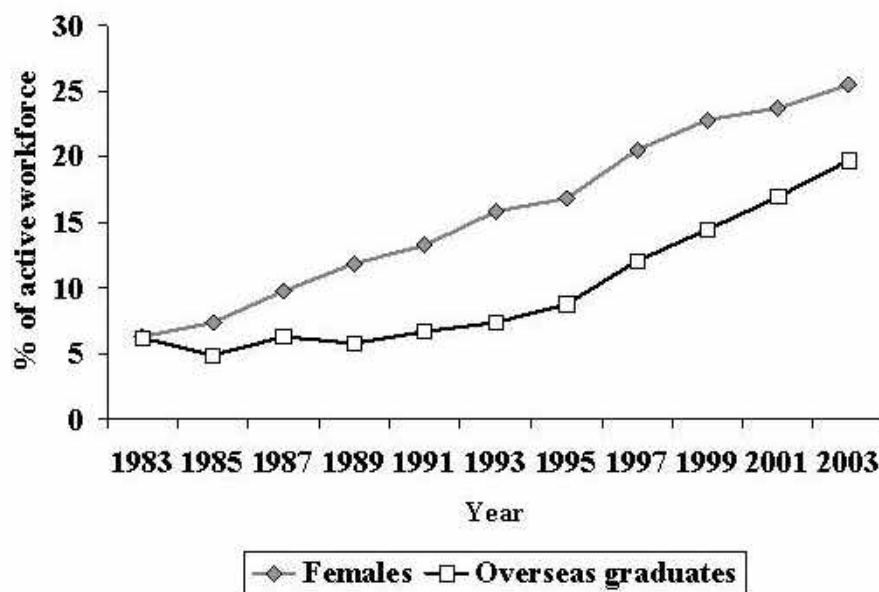
**Table 18. Cohort remainder rate for NZDREX dentists with full registration**

Year of first registration in NZ	Number of dentists	Number of dentists with APC 04	Cohort remainder rate
1992	3 (1.5)	3 (1.9)	100.0
1993	2 (1.0)	2 (1.3)	100.0
1994	5 (2.5)	4 (2.5)	80.0
1995	5 (2.5)	5 (3.2)	100.0
1996	5 (2.5)	5 (3.2)	100.0
1997	28 (13.8)	20 (12.7)	71.4
1998	25 (12.3)	21 (13.4)	84.0
1999	30 (14.8)	19 (12.1)	63.3
2000	36 (17.7)	27 (17.2)	75.0
2001	29 (14.3)	20 (12.7)	67.0
2002	23 (11.3)	19 (12.1)	82.6
2003 (incomplete year)	12 (5.9)	12 (7.6)	100.0
<b>Total</b>	<b>203 (100.0)</b>	<b>157 (100.0)</b>	<b>77.3</b>

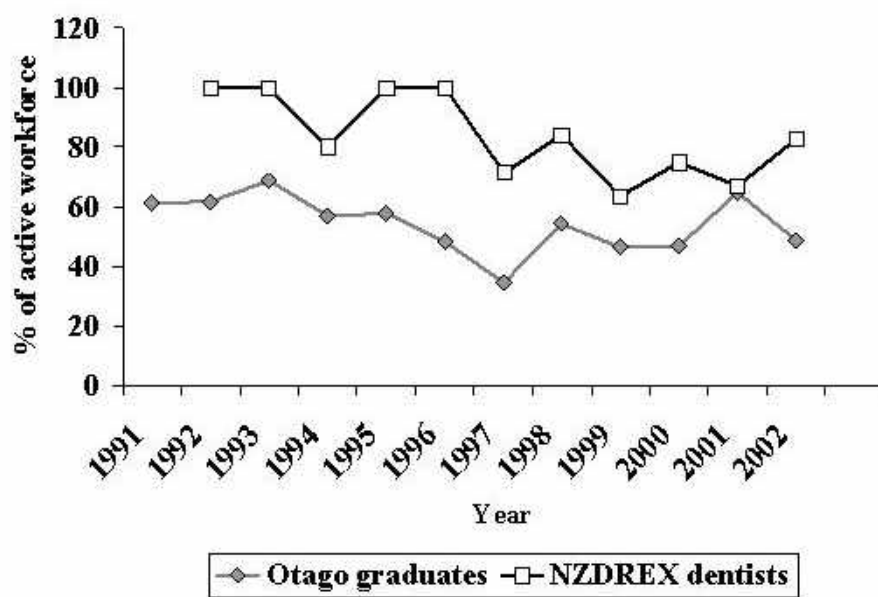
(Data source: Dental Register)

Of the 203 NZDREX dentists registered over the 11-year period represented by Table 18, a total of 46 did not have an APC 04.

**Figure 1.** Trends in the proportion of female dentists and overseas graduates in the NZ dental workforce



**Figure 2.** Cohort remainder rate for University of Otago graduates and NZDREX dentists from 1991 to 2003



**Table 19. Cohort remainder rate for non-NZDREX dentists with full registration**

Year of first registration in NZ	Number of dentists	Number of dentists with APC 04	Cohort remainder rate
1961-1965	1 (0.5)	0 (0.0)	0.0
1966-1970	2 (1.0)	2 (1.2)	100.0
1971-1975	10 (5.1)	10 (5.8)	100.0
1976-1980	10 (5.1)	8 (4.7)	80.0
1981-1985	9 (4.6)	7 (4.1)	77.8
1986-1990	28 (14.3)	27 (15.8)	96.4
1991-1995	23 (11.7)	21 (12.3)	91.3
1996	9 (4.6)	6 (3.5)	67.7
1997	11 (5.6)	9 (5.3)	81.8
1998	6 (3.1)	5 (2.9)	83.3
1999	6 (3.1)	4 (2.3)	67.7
2000	9 (4.6)	6 (3.5)	67.7
2001	13 (6.6)	10 (5.8)	76.9
2002	59 (30.1)	56 (32.7)	94.9
2003	38 (16.7)	36 (21.1)	94.7
(incomplete year)			
<b>Total</b>	<b>196 (100.0)</b>	<b>171 (100.0)</b>	<b>87.2</b>

(Data source: Dental Register)

**Table 20. Date of first qualification by current registration status**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
Year of graduation			
1941-1945	4 (0.2)	2 (0.1)	2 (0.8)
1946-1950	12 (0.6)	3 (0.2)	9 (3.7)
1951-1955	17 (0.9)	10 (0.6)	7 (2.9)
1956-1960	66 (3.5)	53 (3.2)	13 (5.3)
1961-1965	119 (6.2)	108 (6.5)	11 (4.5)
1966-1970	167 (8.8)	156 (9.4)	11 (4.5)
1971-1975	172 (9.0)	161 (9.7)	11 (4.5)
1976-1980	242 (12.7)	226 (13.6)	16 (6.6)
1981-1985	303 (15.9)	283 (17.0)	20 (8.2)
1986-1990	259 (13.6)	232 (14.0)	27 (11.1)
1991-1995	225 (11.8)	194 (11.7)	31 (12.8)
1996	37 (1.9)	30 (1.8)	7 (2.9)
1997	48 (2.5)	31 (1.9)	17 (7.0)
1998	50 (2.6)	38 (2.3)	12 (4.9)
1999	46 (2.4)	30 (1.8)	16 (6.6)
2000	44 (2.3)	31 (1.9)	13 (5.3)
2001	49 (2.6)	42 (2.5)	7 (2.9)
2002	45 (2.4)	32 (1.9)	13 (5.3)
Total	1905 (100.0)	1662 (100.0)	243 (100.0)

(Data source: Dental Register)

**Table 21. Date of first registration by current registration status**

Date of first registration	Full registration – all dentists	Full registration and APC 04		Full registration and no APC 04
	Number of dentists (%)	Number of dentists (%)	Cohort remainder rate (%)	Number of dentists (%)
1941-1945	4 (0.2)	2 (0.1)	50.0	2 (0.8)
1946-1950	10 (0.5)	3 (0.2)	30.0	7 (2.9)
1951-1955	19 (1.0)	10 (0.6)	52.6	9 (3.7)
1956-1960	59 (3.1)	48 (2.9)	81.4	11 (4.5)
1961-1965	86 (4.5)	77 (4.6)	89.5	9 (3.7)
1966-1970	134 (7.0)	125 (7.5)	93.3	9 (3.7)
1971-1975	158 (8.3)	149 (9.0)	94.3	9 (3.7)
1976-1980	195 (10.2)	188 (11.3)	96.4	7 (2.9)
1981-1985	232 (12.2)	218 (13.1)	93.7	14 (5.8)
1986-1990	202 (10.6)	182 (11.0)	90.1	20 (8.2)
1991-1995	206 (10.8)	181 (10.1)	87.9	25 (10.3)
1996	54 (2.8)	44 (2.6)	81.5	10 (4.1)
1997	67 (3.5)	55 (3.3)	82.1	12 (4.9)
1998	60 (3.1)	46 (2.8)	76.7	14 (5.8)
1999	72 (3.8)	55 (3.3)	76.4	17 (7.0)
2000	110 (5.8)	80 (4.8)	72.7	30 (12.3)
2001	71 (3.7)	54 (3.2)	76.1	17 (7.0)
2002	112 (5.9)	93 (5.6)	83.0	19 (7.8)
2003	54 (2.8)	52 (3.1)	96.3	2 (0.8)
Total	1905 (100.0)	1662 (100.0)	87.2	243 (100.0)

(Data source: Dental Register)

**Table 22. Specialist status and specialty by current registration status**

	Full registration – all dentists	Full registration and APC 04	Full registration and no APC 04
<b>Specialist status</b>			
Non-specialists	1696 (89.0)	1465 (88.1)	231 (95.1)
Specialists	209 (11.0)	197 (11.9)	12 (4.9)
Total	1905 (100.0)	1662 (100.0)	243 (100.0)
<b>Specialty</b>			
Endodontics	12 (5.7)	11 (5.6)	1 (8.3)
Oral & Maxillofacial Surgery	32 (15.3)	31 (15.7)	1 (8.3)
Oral Medicine	3 (1.4)	3 (1.5)	0 (0.0)
Oral Pathology	5 (2.4)	5 (2.5)	0 (0.0)
Oral Surgery	3 (1.4)	3 (1.5)	0 (0.0)
Orthodontics	75 (35.9)	73 (37.1)	2 (16.7)
Paediatric Dentistry	8 (3.8)	8 (4.1)	0 (0.0)
Periodontology	24 (11.5)	23 (11.7)	2 (16.7)
Prosthodontics	8 (3.8)	7 (3.6)	1 (8.3)
Public Health Dentistry <sup>b</sup>	10 (4.8)	6 (3.0)	4 (33.3)
Restorative Dentistry	23 (11.0)	21 (10.7)	2 (16.7)
Special Needs Dentistry <sup>c</sup>	6 (2.9)	6 (3.0)	0 (0.0)
Total	209 (100.0)	197 (100.0)	12 (100.0)

<sup>a</sup>Percentage of each specialty who have a current APC is presented in [ ]

<sup>b</sup>Formerly Community Dentistry

<sup>c</sup>Formerly Hospital Dentistry

(Data source: Dental Register)

**Tables 23a to 23c. Geographic distribution of dentists by District Health Board area**

**Table 23a. Full registration – all dentists<sup>a</sup>**

District Health Board	Number (%)	Full registration (APC 04)
Northland	58 (3.3)	55 (3.3)
Waitemata	144 (8.2)	138 (8.4)
Auckland	371 (21.2)	348 (21.1)
Counties-Manukau	69 (3.9)	67 (4.1)
Waikato <sup>b</sup>	124 (7.1)	115 (7.0)
Bay of Plenty	70 (4.0)	66 (4.0)
Lakes	39 (2.2)	35 (2.1)
Tairāwhiti	11 (0.6)	11 (0.7)
Hawke's Bay	46 (2.6)	44 (2.7)
Taranaki	32 (1.8)	32 (1.9)
Wanganui	17 (1.0)	17 (1.0)
MidCentral	55 (3.1)	51 (3.1)
Capital and Coast <sup>c</sup>	161 (9.2)	150 (9.1)
Hutt	57 (3.3)	55 (3.3)
Wairarapa	8 (0.5)	8 (0.5)
Nelson-Marlborough	60 (3.4)	58 (3.5)
West Coast	7 (0.4)	7 (0.4)
Canterbury	200 (11.4)	190 (11.5)
South Canterbury	24 (1.4)	23 (1.4)
Otago	152 (8.7)	139 (8.4)
Southland <sup>d</sup>	44 (2.5)	43 (2.6)
<b>Total</b>	<b>1749 (100.0)</b>	<b>1652 (100.0)</b>

<sup>a</sup>Not including 156 overseas

<sup>b</sup>Includes all of the Ruapehu TLA (part of which is usually included in Wanganui DHB – affects Ohakune dentists)

<sup>c</sup>Includes all of the Kapiti Coast TLA (part of which is usually included in MidCentral DHB – affects Otaki dentists)

<sup>d</sup>Includes all of the Queenstown Lakes TLA (part of which is usually included in Otago DHB – affects Wanaka dentists)

(Data source: Dental Register)



**Table 23b.** Department of Statistics population<sup>a</sup> by District Health Board (DHB) area  
(These data are the denominators for the estimates in Table 23c)

District Health Board	Total population	Population >14 years <sup>a</sup>
Northland	140130	104946
Waitemata	429756	332517
Auckland	367734	295314
Counties-Manukau	375534	275592
Waikato <sup>b</sup>	317751	240702
Bay of Plenty	178164	135486
Lakes	95994	71679
Tairāwhiti	43971	31884
Hawke's Bay	143544	108705
Taranaki	103023	78630
Wanganui	63597	48183
MidCentral	154986	119868
Capital and Coast <sup>c</sup>	245883	195087
Hutt	131850	100416
Wairarapa	38208	29400
Nelson-Marlborough	122472	96009
West Coast	30291	23481
Canterbury	427083	340950
South Canterbury	52782	41688
Otago	170739	138027
Southland <sup>d</sup>	103371	80571
<b>Total</b>	<b>3736863</b>	<b>2889135</b>

<sup>a</sup>2001 Census

<sup>c</sup>Includes all of the Ruapehu TLA (part of which is usually included in Wanganui DHB – affects Ohakune dentists)

<sup>d</sup>Includes all of the Kapiti Coast TLA (part of which is usually included in MidCentral DHB – affects Otaki dentists)

<sup>e</sup>Includes all of the Queenstown Lakes TLA (part of which is usually included in Otago DHB – affects Wanaka dentists)

(Data source: Statistics New Zealand)

**Table 23c.** Distribution of dentists by District Health Board (DHB) area

DHB area	No of dentists with APC 04 <sup>b</sup>	FTE dentists	Population-to-FTE dentist ratio <sup>b</sup>	FTE per 100,00 population <sup>b</sup>
Northland	55	43.5	2410.9	41.5
Waitemata	138	113.2	2936.9	34.0
Auckland	348	257.3	1147.6	87.1
Counties-Manukau	67	52.5	5254.4	19.0
Waikato <sup>c</sup>	115	88.4	2724.4	36.7
Bay of Plenty	66	51.2	2648.8	37.8
Lakes	35	28.0	2564.5	39.0
Tairāwhiti	11	8.7	3677.5	27.2
Hawke's Bay	44	36.5	2979.9	33.6
Taranaki	32	23.9	3292.7	30.4
Wanganui	17	13.6	3555.9	28.1
MidCentral	51	40.9	2929.3	34.1
Capital and Coast <sup>d</sup>	150	114.2	1708.6	58.5
Hutt	55	41.8	2400.6	41.7
Wairarapa	8	7.2	4094.7	24.4
Nelson-Marlboro.	58	41.3	2323.0	43.0
West Coast	7	5.6	4170.7	24.0
Canterbury	190	143.7	2372.7	42.1
South Canterbury	23	18.0	2316.0	43.2
Otago	139	61.5	2244.3	44.6
Southland <sup>e</sup>	43	36.0	2236.2	44.7
<b>Total</b>	<b>1652</b>	<b>1226.8</b>	<b>2354.9</b>	<b>42.5</b>

<sup>a</sup>Calculated using the population aged over 14 years (Table 23b)

<sup>b</sup>Includes dentists in dental practice, and those employed in Ministry of Health, Hospital and Health Services, Government Departments, and other practice settings (ie, University dental school dentists excluded).

<sup>c</sup>Includes all of the Ruapehu TLA (part of which is usually included in Wanganui DHB – affects Ohakune dentists)

<sup>d</sup>Includes all of the Kapiti Coast TLA (part of which is usually included in MidCentral DHB – affects Otaki dentists)

<sup>e</sup>Includes all of the Queenstown Lakes TLA (part of which is usually included in Otago DHB – affects Wanaka dentists)

(Data sources: Workforce Survey and Statistics New Zealand)

**Tables 24a to 24c and Table 25. Geographic distribution of dentists by Territorial Local Authority (TLA) area**

The first series is presented in order to enable comparisons with the corresponding tables from previous years, and uses Workforce Survey data. The second series is consistent with the data by DHB (Table 23c), and uses Dental Register data.

**Table 24a.** Full registration – all dentists<sup>a</sup>

TLA area	Number	%	No. with APC 04	%
Far North	12	0.7	11	0.7
Whangarei	34	1.9	32	1.9
Kaipara	12	0.7	12	0.7
Rodney	13	0.7	12	0.7
North Shore	100	5.7	97	5.9
Waitakere	31	1.8	29	1.8
Auckland	371	21.2	348	21.1
Manukau	44	2.5	43	2.6
Papakura	17	1.0	17	1.0
Franklin	8	0.5	7	0.4
Thames-Coromandel	8	0.5	6	0.4
Hauraki	3	0.2	2	0.1
Waikato	2	0.1	1	0.1
Matamata-Piako	23	1.3	23	1.4
Hamilton	67	3.8	65	3.9
Waipa	8	0.5	5	0.3
Otorohanga	6	0.3	6	0.4
South Waikato	4	0.2	4	0.2
Waitomo	1	0.1	1	0.1
Taupo	13	0.7	11	0.7
Western Bay of Plenty	6	0.3	5	0.3
Tauranga	54	3.1	51	3.1
Rotorua	26	1.5	24	1.5
Whakatane	9	0.5	9	0.5
Kawerau	0	0.0	0	0.0
Opotiki	1	0.1	1	0.1
Gisborne	11	0.6	11	0.7
Wairoa	2	0.1	2	0.1
Hastings	16	0.9	16	1.0
Napier	25	1.4	23	1.4
Central Hawkes Bay	3	0.3	3	0.2
New Plymouth	22	1.3	22	1.3
Stratford	3	0.2	3	0.2

South Taranaki	7	0.4	7	0.4
Ruapehu	2	0.1	2	0.1
Wanganui	16	0.9	16	1.0
Rangitikei	1	0.1	1	0.1
Manawatu	4	0.2	4	0.2
Palmerston North	36	2.1	33	2.0
Tararua	4	0.2	4	0.2
Horowhenua	11	0.6	10	0.6
Kapiti Coast	20	1.1	19	1.2
Porirua	14	0.8	14	0.8
Upper Hutt	15	0.9	14	0.8
Lower Hutt	42	2.4	41	2.5
Wellington	127	7.3	117	7.1
Masterton	6	0.3	6	0.4
Carterton	2	0.1	2	0.1
South Wairarapa	0	0.0	0	0.0
Tasman	8	0.5	7	0.4
Nelson	38	2.2	37	2.2
Marlborough	14	0.8	14	0.8
Kaikoura	2	0.1	2	0.1
Buller	1	0.1	1	0.1
Grey	5	0.3	5	0.3
Westland	1	0.1	1	0.1
Hurunui	0	0.0	0	0.0
Waimakiriri	7	0.4	7	0.4
Christchurch	186	10.6	176	10.7
Banks Peninsula	2	0.1	2	0.1
Selwyn	3	0.2	3	0.2
Ashburton	9	0.5	9	0.5
Timaru	15	0.9	14	0.8
Mackenzie	0	0.0	0	0.0
Waimate	0	0.0	0	0.0
Chatham Islands	0	0.0	0	0.0
Waitaki	13	0.7	12	0.7
Central Otago	7	0.4	7	0.4
Queenstown Lakes	11	0.6	11	0.7
Dunedin	129	7.4	117	7.1
Clutha	3	0.2	3	0.2
Southland	2	0.1	2	0.1
Gore	6	0.3	6	0.4
Invercargill	25	1.4	24	1.5
<b>Total</b>	<b>1749</b>	<b>100.0</b>	<b>1652</b>	<b>100.0</b>

<sup>a</sup>Not including 156 overseas or not practising  
(Data source: Dental Register)

**Table 24b.** Department of Statistics population<sup>a</sup>  
 (These data are the denominators for the estimates in Table 24c)

TLA area	Total population	Population >14 years <sup>a</sup>
Far North	58065	40200
Whangarei	68478	51636
Kaipara	17811	13119
Rodney	77385	58872
North Shore	185262	146643
Waitakere	168465	127002
Auckland	380157	295311
Manukau	284001	206778
Papakura	40380	30321
Franklin	51951	38499
Thames-Coromandel	28008	20301
Hauraki	16662	12498
Waikato	39870	29136
Matamata-Piako	29400	22116
Hamilton	116223	88950
Waipa	40509	30495
Otorohanga	9405	6876
South Waikato	23268	16710
Waitomo	9618	6960
Taupo	34557	23820
Western Bay of Plenty	38481	28992
Tauranga	91836	71211
Rotorua	68775	47868
Whakatane	32955	23883
Kawerau	6948	4797
Opotiki	9219	6579
Gisborne	44115	31884
Wairoa	9219	6411
Hastings	68757	50325
Napier	55137	41712
Central Hawkes Bay	12837	9705
New Plymouth	66573	51414
Stratford	8991	6717
South Taranaki	27222	20505
Ruapehu	15198	10380
Wanganui	43683	33171
Rangitikei	15369	11283
Manawatu	27393	20760
Palmerston North	73122	56763
Tararua	17586	13284
Horowhenua	29580	23058
Kapiti Coast	42543	33549

Porirua	47295	34077
Upper Hutt	36684	27879
Lower Hutt	95106	72537
Wellington	167190	133467
Masterton	22926	17322
Carterton	6897	5292
South Wairarapa	8754	6789
Tasman	44877	31848
Nelson	43560	32889
Marlborough	42483	31263
Kaikoura	4401	2784
Buller	10440	7452
Grey	13635	9906
Westland	10371	6114
Hurunui	10281	7584
Waimakiriri	36645	28179
Christchurch	324300	255090
Banks Peninsula	8874	6315
Selwyn	27969	20865
Ashburton	25344	20127
Timaru	42315	33174
Mackenzie	5184	2952
Waimate	7128	5556
Chatham Islands	714	546
Waitaki	20934	16083
Central Otago	14952	11592
Queenstown Lakes	25152	13947
Dunedin	118038	93348
Clutha	17388	13191
Southland	31884	22029
Gore	12369	9639
Invercargill	50118	38772
<b>Total</b>	<b>3736863</b>	<b>2889135</b>

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<sup>a</sup>2001 Census

(Data source: Statistics New Zealand)

**Table 24c.** Distribution of dentists

TLA area	FTE dentists <sup>a</sup>	Population-to-FTE-dentist ratio <sup>a</sup>	FTE per 100,000 population <sup>a</sup>
Far North	6.6	5522.0	18.1
Whangarei	25.5	1987.5	50.3
Kaipara	8.9	1277.4	78.3
Rodney	6.4	5828.9	17.2
North Shore	71.6	1816.0	55.1
Waitakere	26.5	5529.0	18.1
Auckland	284.8	1138.7	87.8
Manukau	26.5	6304.2	15.9
Papakura	10.8	2229.5	44.9
Franklin	6.4	6363.5	15.7
Thames-Coromandel	6.5	3725.0	26.8
Hauraki	1.9	19838.1	5.0
Waikato	2.0	29136.0	3.4
Matamata-Piako	14.5	1312.5	76.2
Hamilton	48.8	1767.3	56.6
Waipa	3.1	6516.0	15.3
Otorohanga	2.3	1562.7	64.0
South Waikato	3.5	6235.1	16.0
Waitomo	1.0	6960.0	14.4
Taupo	8.6	3061.7	32.7
Western Bay of Plenty	4.4	7071.2	14.1
Tauranga	40.6	1804.2	55.4
Rotorua	20.6	2373.2	42.1
Whakatane	5.4	3629.6	27.6
Kawerau	0.0		
Opotiki	1.9	6579.0	15.2
Gisborne	5.6	3677.5	27.2
Wairoa	0.9	7285.2	13.7
Hastings	17.6	3556.5	28.1
Napier	17.0	2221.1	45.0
Central Hawkes Bay	2.7	3621.3	27.6
New Plymouth	19.6	3069.5	32.6
Stratford	2.3	2798.8	35.7
South Taranaki	5.5	4335.1	23.1
Ruapehu	1.9	5521.3	18.1
Wanganui	11.6	2643.1	37.8
Rangitikei	1.0	11283.0	8.9
Manawatu	4.0	5190.0	19.3
Palmerston North	29.1	2177.3	45.9
Tararua	3.7	3321.0	30.1
Horowhenua	6.7	3366.1	29.7
Kapiti Coast	12.5	2301.0	43.5

Porirua	13.5	2732.7	36.6
Upper Hutt	10.7	2456.3	40.7
Lower Hutt	27.4	2380.6	42.0
Wellington	84.0	1532.0	65.3
Masterton	5.3	3312.0	30.2
Carterton	1.9	2713.8	36.8
South Wairarapa	0.0		
Tasman	4.8	5687.1	17.6
Nelson	26.7	1303.6	76.7
Marlborough	11.2	2718.5	36.8
Kaikoura	1.3	2729.4	36.6
Buller	1.0	7452.0	13.4
Grey	1.8	2677.3	37.4
Westland	1.0	6574.2	15.2
Hurunui	0.0		
Waimakiriri	5.7	4218.4	23.7
Christchurch	127.7	1911.1	52.3
Banks Peninsula	0.8	9715.4	10.3
Selwyn	2.9	7587.3	13.2
Ashburton	7.0	2672.9	37.4
Timaru	9.5	3165.5	31.6
Mackenzie	0.0		
Waimate	0.0		
Chatham Islands	0.0		
Waitaki	9.4	1603.5	62.4
Central Otago	5.0	2455.9	40.7
Queenstown Lakes	6.6	1877.1	53.3
Dunedin	44.8	1168.0	85.6
Clutha	3.0	4397.0	22.7
Southland	0.9	11594.2	8.6
Gore	5.7	1853.7	53.9
Invercargill	23.5	1803.3	55.5
Total	1223.9	2278.4	43.9

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<sup>a</sup>Includes dentists in dental practice, and those employed in Ministry of Health, Hospital and Health Services, Government Departments, and other practice settings (ie, University dental school dentists excluded).

<sup>b</sup>Calculated using the population aged over 14 years (Table 24b)

(Data sources: Workforce Survey and Statistics New Zealand)



**Table 25. Distribution of dentists**

TLA area	No. of dentists with APC 04	Population-to-dentist ratio <sup>b</sup>	Dentists per 100,000 population <sup>b</sup>
Far North	11	3654.5	27.4
Whangarei	32	1613.6	62.0
Kaipara	12	1093.3	91.5
Rodney	12	4906.0	20.4
North Shore	97	1511.8	66.1
Waitakere	29	4379.4	22.8
Auckland	348	848.6	117.8
Manukau	43	4808.8	20.8
Papakura	17	1783.6	56.1
Franklin	7	5499.9	18.2
Thames-Coromandel	6	3383.5	29.6
Hauraki	2	6249.0	16.0
Waikato	1	29136.0	3.4
Matamata-Piako	23	961.6	104.0
Hamilton	65	1368.5	73.1
Waipa	5	6099.0	16.4
Otorohanga	6	1146.0	87.3
South Waikato	4	4177.5	23.9
Waitomo	1	6960.0	14.4
Taupo	11	2165.5	46.2
Western Bay of Plenty	5	5798.4	17.2
Tauranga	51	1396.3	71.6
Rotorua	24	1994.5	50.1
Whakatane	9	2653.7	37.7
Kawerau	0		
Opotiki	1	6579.0	15.2
Gisborne	11	2898.5	34.5
Wairoa	2	3205.5	31.2
Hastings	16	3145.3	31.8
Napier	23	1813.6	55.1
Central Hawkes Bay	3	3235.0	30.9
New Plymouth	22	2337.0	42.8
Stratford	3	2239.0	44.7
South Taranaki	7	2929.3	34.1
Ruapehu	2	5190.0	19.3
Wanganui	16	2073.2	48.2
Rangitikei	1	11283.0	8.9
Manawatu	4	5190.0	19.3
Palmerston North	33	1720.1	58.1
Tararua	4	3321.0	30.1

Horowhenua	10	2305.8	43.4
Kapiti Coast	19	1765.7	56.6
Porirua	14	2434.1	41.1
Upper Hutt	14	1991.4	50.2
Lower Hutt	41	1769.2	56.5
Wellington	117	1140.7	87.7
Masterton	6	2887.0	34.6
Carterton	2	2646.0	37.8
South Wairarapa	0		
Tasman	7	4549.7	22.0
Nelson	37	888.9	112.5
Marlborough	14	2233.1	44.8
Kaikoura	2	1392.0	71.8
Buller	1	7452.0	13.4
Grey	5	1981.2	50.5
Westland	1	6114.0	16.4
Hurunui	0		
Waimakiriri	7	4025.6	24.8
Christchurch	176	1449.4	69.0
Banks Peninsula	2	3157.5	31.7
Selwyn	3	6955.0	14.4
Ashburton	9	2236.3	44.7
Timaru	14	2369.6	42.2
Mackenzie	0		
Waimate	0		
Chatham Islands	0		
Waitaki	12	1340.3	74.6
Central Otago	7	1656.0	60.4
Queenstown Lakes	11	1267.9	78.9
Dunedin	117	797.8	125.3
Clutha	3	4397.0	22.7
Southland	2	11014.5	9.1
Gore	6	1606.5	62.2
Invercargill	24	1615.5	61.9
Total	1652	1748.9	57.2

<sup>b</sup>Includes dentists in dental practice, and those employed in Ministry of Health, Hospital and Health Services, Government Departments, and other practice settings (ie, University dental school dentists excluded).

<sup>a</sup>Calculated using the population aged over 14 years (Table 23b)

(Data sources: Dental Register and Statistics New Zealand)