

**DISTRICT HEALTH BOARD
EMPLOYED WORKFORCE
QUARTERLY REPORT**

1 APRIL TO 30 JUNE 2020

Health Workforce Information

The Health Workforce Information Programme (HWIP) is a well-established programme within Technical Advisory Services (TAS) and supports the District Health Boards (DHBs) through providing base information on DHB employee demographics, competencies and describing the current composition of the DHB workforce. Regular reports are based on a quarterly collection of data from the DHBs. DHB employee data has been collected on a quarterly basis since mid-2006 with a continued focus on improving data quality.

Purpose of the Report

This report covers all DHB employees for the period 1 April 2020 to 30 June 2020 and is a snapshot in time at 30 June 2020. The report provides information on the general make up and characteristics of the DHB health and disability workforce to help inform further data analysis and workforce planning. The format of the report is to provide tables and graphs on the demographics of the DHB workforce aligned to the seven occupational groupings. These groupings are:

- Senior Medical Officer (SMO)
- Resident Medical Officer (RMO)
- Nursing
- Midwifery
- Allied & scientific (the amalgamation of Allied Health and Technical and Scientific)
- Care and support
- Corporate and other

Data Extraction

Important notes about the data extraction:

- The data extract used for this report covers the period April 2020 to June 2020 inclusive and is a snapshot taken by the DHBs on 30 June 2020.
- The data quality continues to improve through working closely with the DHBs to help manage and improve the data submitted.

Disclaimer

While due care has been applied in the processing, analysing and extraction of data and information to ensure the accuracy of the work, TAS provides no warranty as to the accuracy, authenticity or validity of the data and information and/or that it is supplied free from error. TAS is not liable whatsoever, including for negligence or defamation, for all and any damages or liability in respect of or arising out of use, reliance or otherwise for this work, whether direct or indirect, including the provision of any incorrect, inaccurate or incomplete information.

Contact: HWIP@tas.health.nz

Data source: DHB Workforce Information, held by TAS.

TABLE OF CONTENTS

| | |
|---|-----------|
| TABLE OF CONTENTS | 3 |
| TABLE OF FIGURES | 3 |
| TABLE OF TABLES | 3 |
| OVERVIEW | 4 |
| DHB WORKFORCE AT A GLANCE..... | 4 |
| DISTRIBUTION OF EMPLOYEES | 5 |
| INCLUSIONS AND EXCLUSIONS | 6 |
| HEADCOUNT AND FTE BY DHB AND OCCUPATION GROUP | 7 |
| TABLES AND CHARTS BY OCCUPATION GROUPING..... | 8 |
| HEADCOUNT AND FTE BY OCCUPATION GROUPING AND GENDER..... | 8 |
| HEADCOUNT BY OCCUPATION GROUP AND ETHNICITY | 9 |
| AGES AND LENGTH OF SERVICE | 11 |
| TABLES AND CHARTS BY DHB | 12 |
| COUNT OF EMPLOYEES AND MEAN FTE BY GENDER AND DHB..... | 12 |
| MEAN AGES AND MEAN LENGTH OF SERVICE BY DHB AND GENDER..... | 13 |
| ETHNICITIES BY DHB..... | 14 |
| ANALYSIS BY DHB AND OCCUPATION GROUP | 15 |
| LENGTH OF SERVICE BY OCCUPATION GROUP AND DHB | 15 |
| ANALYSIS BY SICK LEAVE & ANNUAL LEAVE | 16 |
| SICK LEAVE BY DHB, OCCUPATION GROUP, AGE GROUP AND ETHNICITY BY GENDER | 16 |
| RATIO OF ANNUAL LEAVE BALANCE AND ANNUAL LEAVE ENTITLEMENT BY DHB, OCCUPATION GROUP AND ETHNICITY BY GENDER | 18 |
| ANALYSIS BY POPULATION..... | 20 |
| DISTRIBUTION OF OVERALL DHB EMPLOYEES BY AGE, WITH NATIONAL EMPLOYEE DATA..... | 20 |
| ETHNIC REPRESENTATION OF WORKFORCE TO RESIDENT POPULATION | 21 |
| POPULATION DENSITY BY OCCUPATIONAL GROUP AND DHB | 22 |

TABLE OF FIGURES

| | |
|---|----|
| Figure 1: Count of employees | 5 |
| Figure 2: Occupation group headcount and mean FTE by gender..... | 8 |
| Figure 3: Proportion of ethnicities by occupation group | 9 |
| Figure 4: Proportion of identifiable ethnicities for all DHB employees..... | 10 |
| Figure 5: Proportion of identifiable ethnicities for projected population data at 31March 2020 | 10 |
| Figure 6: Mean ages and length of service by occupation group and gender | 11 |
| Figure 7: Headcount and mean FTE by gender and DHB | 12 |
| Figure 8: Mean ages and mean length of service by DHB and gender..... | 13 |
| Figure 9: Proportion of reported ethnicities by DHB..... | 14 |
| Figure 10: Average annualized sick leave hours per FTE by DHB..... | 16 |
| Figure 11: Average annual sick leave hours per FTE by occupational group | 17 |
| Figure 13: Average annual sick leave hours per FTE by ethnicity by gender | 17 |
| Figure 14: Ratio of annual leave balance to annual leave entitlement hours per FTE by DHB..... | 18 |
| Figure 15: Ratio of annual leave balance to annual leave entitlement hours per FTE by occupational group | 19 |
| Figure 16: Ratio of annual leave balance to annual leave entitlement hours per FTE by ethnicity by gender | 19 |
| Figure 17: Distribution of overall DHB employees by age, with national employee data | 20 |
| Figure 18: Population density of Nurses by DHB..... | 22 |
| Figure 19: Population density of Corporate & Other by DHB..... | 22 |
| Figure 20: Population density of Allied & Scientific by DHB..... | 23 |
| Figure 21: Population density of Care & Support by DHB..... | 23 |
| Figure 22: Population density of Senior Medical Officer (SMO) by DHB..... | 24 |
| Figure 23: Population density of Resident Medical Officer (RMO) by DHB..... | 24 |
| Figure 24: Population density of Midwives by DHB..... | 25 |
| Figure 25: Population density of all DHB staff by DHB | 25 |

TABLE OF TABLES

| | |
|---|----|
| Table 1: Distribution of employment types | 5 |
| Table 2: Headcount and FTE by DHB and occupation group..... | 7 |
| Table 3: Occupation group headcount and mean FTE by gender | 8 |
| Table 4: Count and proportion of ethnicities by occupation group..... | 9 |
| Table 5: Mean ages and length of service by occupation group and gender | 11 |
| Table 6: Headcount and mean FTE by gender and DHB | 12 |
| Table 7: Mean ages and mean length of service by DHB and gender | 13 |
| Table 8: Distribution of reported ethnicities by DHB..... | 14 |
| Table 9: Mean length of service by occupation group and DHB..... | 15 |

OVERVIEW

DHB WORKFORCE AT A GLANCE

For data to 30 June 2020, only those employed with contracted hours greater than zero are included in the analysis except for the tables and charts that explicitly report on 'Other' employees on page 5. 'Other' includes those on maternity / parental leave, and those who have not been reported with an employment status code.

| | | |
|---|---|--|
| <p>Total employees 78,606*** 61,534 female > 17,065 male</p> | <p>66,335 FTE 50,725 FTE* females 15,608 FTE* males</p> | <p>Largest occupation group: Nurses – 30,059 Smallest occupation group: Midwives – 1,548</p> |
| <p>DHB employee average age 45.0 years 45.1 years for females 44.7 years for males</p> | <p>Oldest male occupation group: SMO (mean age 51.4 years) Youngest male occupation group: RMO (mean age 31.0 years)</p> | <p>Oldest female occupation groups: Corporate and other (mean age 50.1 years) Youngest female occupation group: RMO (mean age 30.8 years)</p> |
| <p>Mean FTE rate 0.84 Mean FTE rate for females 0.82 Mean FTE rate for males 0.91</p> | <p>Longest Length of Service occupation group SMO (mean 10.1 years) Shortest Length of Service occupation group RMO (mean 1.4 years)</p> | <p>Employee reported ethnicities:</p> <p>Other** – 66.1% Asian – 21.2% Māori – 8.2% Pacific – 4.5%</p> |

- * Contracted FTE (using a 2086 hour annual contract):
 N.B. local (DHB and / or occupation) interpretations of a 'full time equivalent' can vary. For example; a sonographer may be classed as 1.0 full time employee in one DHB where they are contracted to work 35 hours per week, whereas another sonographer in a different DHB may be classed as 1.0 full time employee where they are contracted to work 40 hours per week. The Contracted FTE definition used here allows a comparison to be made across DHBs and occupations through a universal standard.
- ** To allow direct comparisons with reported ethnicity data from Statistics New Zealand, we have amalgamated ethnicities not associated with Asian, Māori or Pacific into the group 'Other'.
- *** There were fewer than five employees reported as gender diverse.

DISTRIBUTION OF EMPLOYEES

This chart shows the number of employees within each DHB who are classed as either Employees (contracted hours greater than zero) or 'Other' (all others including those on maternity / parental leave, and those who have not been reported with an employment status code). The chart has been ordered in descending order of DHB workforce size. The table below the chart gives the actual count of employees.

Figure 1: Count of employees

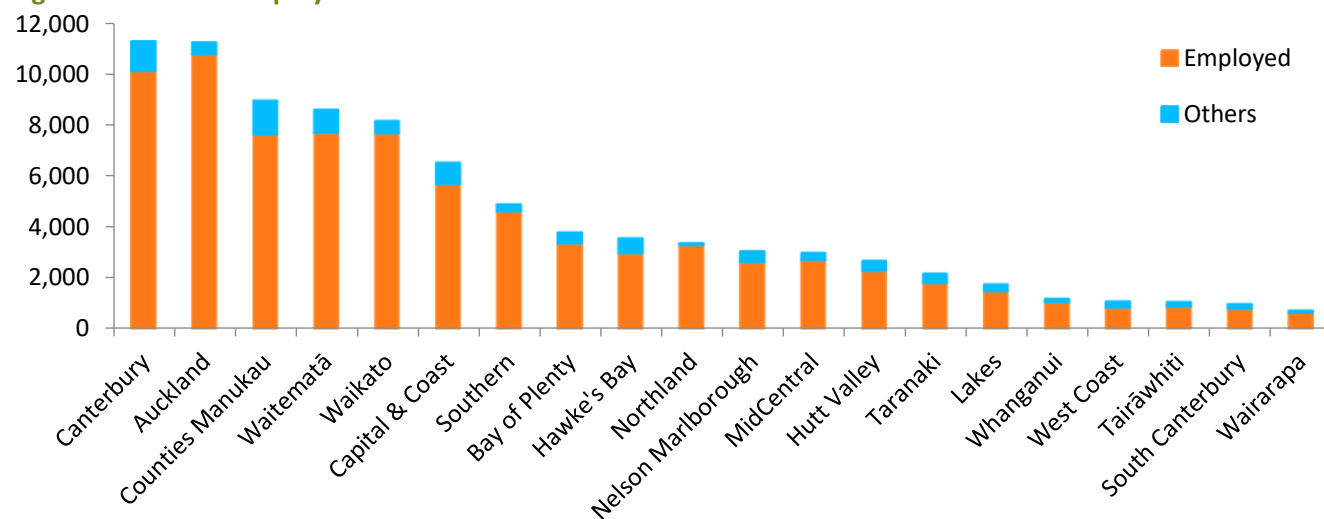


Table 1: Distribution of employment types

| DHB | Employed | Others | Total | Proportion of DHB workforce |
|--------------------|---------------|--------------|---------------|-----------------------------|
| Canterbury | 10,117 | 1,191 | 11,308 | 12.8% |
| Auckland | 10,775 | 495 | 11,270 | 12.8% |
| Counties Manukau | 7,626 | 1,339 | 8,965 | 10.2% |
| Waitematā | 7,699 | 921 | 8,620 | 9.8% |
| Waikato | 7,671 | 504 | 8,175 | 9.3% |
| Capital & Coast | 5,676 | 861 | 6,537 | 7.4% |
| Southern | 4,590 | 303 | 4,893 | 5.6% |
| Bay of Plenty | 3,333 | 456 | 3,789 | 4.3% |
| Hawke's Bay | 2,960 | 588 | 3,548 | 4.0% |
| Northland | 3,276 | 89 | 3,365 | 3.8% |
| Nelson Marlborough | 2,606 | 434 | 3,040 | 3.5% |
| MidCentral | 2,682 | 296 | 2,978 | 3.4% |
| Hutt Valley | 2,274 | 385 | 2,659 | 3.0% |
| Taranaki | 1,788 | 365 | 2,153 | 2.4% |
| Lakes | 1,458 | 279 | 1,737 | 2.0% |
| Whanganui | 1,016 | 161 | 1,177 | 1.3% |
| West Coast | 811 | 254 | 1,065 | 1.2% |
| Tairāwhiti | 861 | 185 | 1,046 | 1.2% |
| South Canterbury | 779 | 179 | 958 | 1.1% |
| Wairarapa | 608 | 113 | 721 | 0.8% |
| Grand Total | 78,606 | 9,398 | 88,004 | 100.0% |

INCLUSIONS AND EXCLUSIONS

Specific caveats and definitions relevant to charts and tables have been provided throughout the report and should be noted. Additionally, all charts and tables that follow in this document are derived from data using the following caveats:

Inclusions:

- Only employees who have positive contract hours have been included; those with zero contract hours or are classified as on parental leave or leave without pay have been excluded.
- Charts containing 'Age' include all employees who have a calculated age between 15 and 99.

Exclusions:

- Data has been excluded when it does not match the reporting variable standard format (i.e. if a gender code has not been assigned then the employee will be excluded from that chart or table).
- For privacy reasons some data has been suppressed for numbers less than five.
- Any employee who has an employment end date entered (before or during the reporting quarter) has also been excluded since they left employment before the end of the reporting quarter.
- Charts containing 'ethnicity', exclude employees who do not have a valid ethnicity code.

Calculations:

- Percentage sick leave hours is calculated by dividing the number of sick leave hours taken by the contracted hours (excluding those with zero contracted hours). It excludes staff who started or terminated employment in the reporting quarter.
- Annual leave balance to entitlement calculations exclude staff who started or terminated employment in the reporting quarter and those staff who have no reported entitlement to annual leave.
- Because of the way start dates are reported the length of service is most likely to be based on the length of service within the DHB rather than the length of service of the reported position.

HEADCOUNT AND FTE BY DHB AND OCCUPATION GROUP

The following table shows the headcount of employees by their occupation grouping and DHB. It also includes columns for full-time equivalent counts (Contracted FTE, using a 2086 hour annual contract) and mean FTE (the average FTE calculation for all employees). Employees who do not have a contract of more than zero hours are excluded.

Table 2: Headcount and FTE by DHB and occupation group

| DHB | Nursing | | | Corporate and other | | | Allied & scientific | | | Care and support | | | SMO | | | RMO | | | Midwifery | | |
|--------------------|---------------|-----------------|-------------|---------------------|-----------------|-------------|---------------------|-----------------|-------------|------------------|----------------|-------------|--------------|----------------|-------------|--------------|----------------|-------------|--------------|----------------|-------------|
| | Head count | FTE | Mean FTE | Head count | FTE | Mean FTE | Head count | FTE | Mean FTE | Head count | FTE | Mean FTE | Head count | FTE | Mean FTE | Head count | FTE | Mean FTE | Head count | FTE | Mean FTE |
| Auckland | 3,989 | 3,406.1 | 0.85 | 2,019 | 1,804.5 | 0.89 | 2,134 | 1,884.7 | 0.88 | 711 | 660.6 | 0.93 | 1,121 | 908.0 | 0.81 | 625 | 619.5 | 0.99 | 176 | 133.5 | 0.76 |
| Bay of Plenty | 1,355 | 1,039.4 | 0.77 | 658 | 576.8 | 0.88 | 501 | 420.7 | 0.84 | 324 | 267.0 | 0.82 | 244 | 202.9 | 0.83 | 198 | 196.9 | 0.99 | 53 | 36.3 | 0.68 |
| Canterbury | 3,810 | 3,156.1 | 0.83 | 2,206 | 1,921.4 | 0.87 | 1,715 | 1,416.3 | 0.83 | 1,058 | 841.0 | 0.79 | 632 | 536.7 | 0.85 | 560 | 552.9 | 0.99 | 136 | 88.7 | 0.65 |
| Capital & Coast | 2,360 | 1,879.9 | 0.80 | 1,162 | 1,058.0 | 0.91 | 763 | 653.4 | 0.86 | 416 | 366.2 | 0.88 | 439 | 347.2 | 0.79 | 413 | 399.0 | 0.97 | 123 | 86.4 | 0.70 |
| Counties Manukau | 2,895 | 2,457.3 | 0.85 | 1,403 | 1,202.4 | 0.86 | 1,219 | 1,054.0 | 0.86 | 820 | 715.7 | 0.87 | 593 | 502.0 | 0.85 | 476 | 466.3 | 0.98 | 220 | 165.8 | 0.75 |
| Hawke's Bay | 1,148 | 825.5 | 0.72 | 616 | 536.2 | 0.87 | 477 | 386.4 | 0.81 | 325 | 260.1 | 0.80 | 160 | 137.8 | 0.86 | 163 | 160.2 | 0.98 | 71 | 37.6 | 0.53 |
| Hutt Valley | 770 | 627.2 | 0.81 | 487 | 441.5 | 0.91 | 362 | 300.6 | 0.83 | 252 | 218.1 | 0.87 | 173 | 130.6 | 0.75 | 182 | 173.2 | 0.95 | 48 | 33.4 | 0.70 |
| Lakes | 565 | 441.1 | 0.78 | 331 | 295.9 | 0.89 | 202 | 173.1 | 0.86 | 129 | 108.1 | 0.84 | 107 | 92.3 | 0.86 | 89 | 89.0 | 1.00 | 35 | 27.4 | 0.78 |
| MidCentral | 1,109 | 916.5 | 0.83 | 624 | 576.8 | 0.92 | 377 | 333.5 | 0.88 | 191 | 158.8 | 0.83 | 169 | 151.1 | 0.89 | 155 | 153.3 | 0.99 | 57 | 38.6 | 0.68 |
| Nelson Marlborough | 856 | 629.5 | 0.74 | 591 | 486.4 | 0.82 | 376 | 281.8 | 0.75 | 467 | 325.7 | 0.70 | 159 | 130.0 | 0.82 | 102 | 99.4 | 0.97 | 55 | 36.3 | 0.66 |
| Northland | 1,273 | 966.2 | 0.76 | 621 | 537.4 | 0.87 | 494 | 419.1 | 0.85 | 483 | 345.9 | 0.72 | 207 | 201.0 | 0.97 | 126 | 125.0 | 0.99 | 72 | 43.6 | 0.61 |
| South Canterbury | 321 | 245.5 | 0.76 | 156 | 118.4 | 0.76 | 111 | 84.3 | 0.76 | 76 | 54.9 | 0.72 | 66 | 48.7 | 0.74 | 24 | 23.9 | 1.00 | 25 | 19.0 | 0.76 |
| Southern | 1,931 | 1,541.6 | 0.80 | 872 | 779.4 | 0.89 | 715 | 616.5 | 0.86 | 362 | 290.2 | 0.80 | 321 | 256.9 | 0.80 | 315 | 308.6 | 0.98 | 74 | 51.1 | 0.69 |
| Tairāwhiti | 339 | 270.0 | 0.80 | 207 | 187.5 | 0.91 | 118 | 101.0 | 0.86 | 94 | 78.9 | 0.84 | 58 | 51.5 | 0.89 | 27 | 26.8 | 0.99 | 18 | 14.0 | 0.78 |
| Taranaki | 686 | 513.9 | 0.75 | 409 | 363.2 | 0.89 | 255 | 205.5 | 0.81 | 188 | 154.8 | 0.82 | 130 | 109.7 | 0.84 | 90 | 88.7 | 0.99 | 30 | 20.6 | 0.69 |
| Waikato | 2,932 | 2,479.8 | 0.85 | 1,654 | 1,483.1 | 0.90 | 1,138 | 998.4 | 0.88 | 901 | 765.0 | 0.85 | 465 | 413.4 | 0.89 | 470 | 460.9 | 0.98 | 111 | 82.2 | 0.74 |
| Wairarapa | 274 | 189.7 | 0.69 | 137 | 109.9 | 0.80 | 71 | 51.1 | 0.72 | 66 | 44.6 | 0.68 | 26 | 22.3 | 0.86 | 14 | 14.0 | 1.00 | 20 | 13.1 | 0.65 |
| Waitematā | 2,675 | 2,264.9 | 0.85 | 1,394 | 1,207.4 | 0.87 | 1,423 | 1,187.5 | 0.83 | 1,068 | 947.6 | 0.89 | 560 | 475.0 | 0.85 | 392 | 381.4 | 0.97 | 187 | 120.2 | 0.64 |
| West Coast | 329 | 277.0 | 0.84 | 202 | 170.9 | 0.85 | 88 | 78.9 | 0.90 | 138 | 99.1 | 0.72 | 32 | 25.1 | 0.79 | 9 | 8.6 | 0.95 | 13 | 9.9 | 0.76 |
| Whanganui | 442 | 355.7 | 0.80 | 203 | 183.6 | 0.91 | 140 | 114.4 | 0.82 | 116 | 95.9 | 0.83 | 53 | 48.3 | 0.91 | 38 | 38.0 | 1.00 | 24 | 18.3 | 0.76 |
| Grand Total | 30,066 | 24,482.8 | 0.81 | 15,952 | 14,040.6 | 0.88 | 12,679 | 10,761.2 | 0.85 | 8,185 | 6,798.1 | 0.83 | 5,715 | 4,790.5 | 0.84 | 4,468 | 4,385.7 | 0.98 | 1,548 | 1,076.1 | 0.70 |

TABLES AND CHARTS BY OCCUPATION GROUPING

HEADCOUNT AND FTE BY OCCUPATION GROUPING AND GENDER

The bars represent the headcount (left hand axis) of employees by gender and occupation grouping, and the triangles represent the average FTE for those employees (right hand axis), also by gender and occupation grouping.

Figure 2: Occupation group headcount and mean FTE by gender

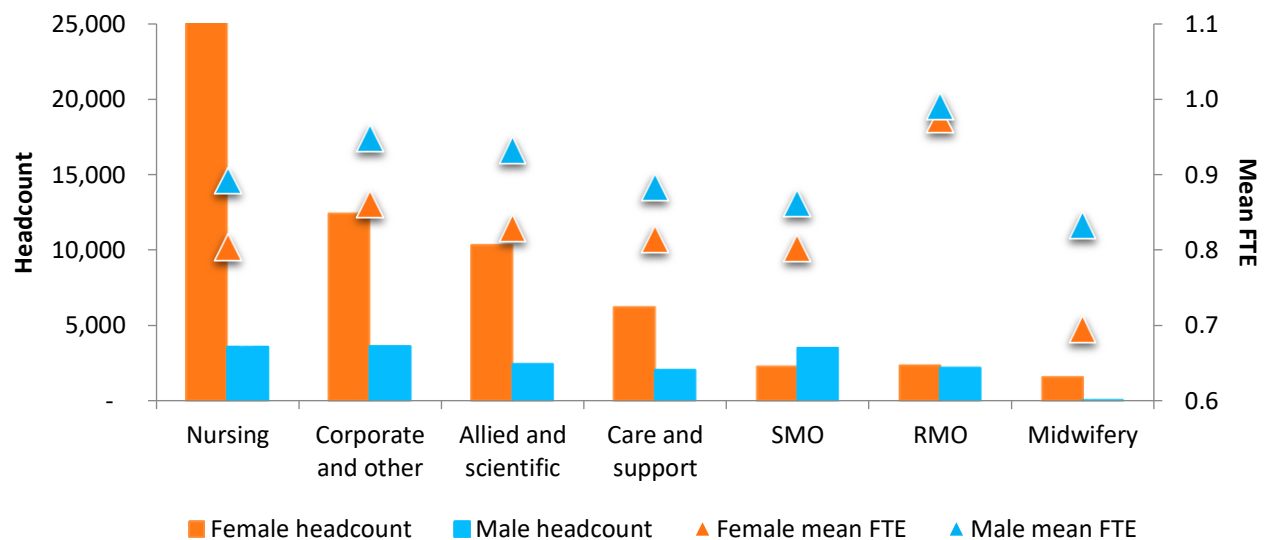


Table 3: Occupation group headcount and mean FTE by gender

| Occupation group | Female | | Male | | Total | |
|------------------------------|---------------|-------------|--------------------|-------------|---------------|-------------|
| | Headcount | Mean FTE | Headcount | Mean FTE | Headcount | Mean FTE |
| Nursing | 26,519 | 0.80 | 3,538 | 0.89 | 30,059 | 0.81 |
| Corporate and other | 12,399 | 0.86 | 3,553 | 0.95 | 15,952 | 0.88 |
| Allied and scientific | 10,285 | 0.83 | 2,394 | 0.93 | 12,679 | 0.85 |
| Care and support | < 6,190 | 0.81 | > 1,992 | 0.88 | 8,185 | 0.83 |
| SMO | 2,265 | 0.80 | 3,450 | 0.86 | 5,715 | 0.84 |
| RMO | 2,334 | 0.97 | 2,134 | 0.99 | 4,468 | 0.98 |
| Midwifery | > 1,540 | 0.69 | ** | 0.83 | 1,548 | 0.70 |
| Grand Total | 61,534 | 0.82 | > 17,065 | 0.91 | 78,606 | 0.84 |

** Data suppressed (headcounts less than 5)

Some values have been expressed as ranges to ensure anonymity of the small number of employees reported as gender diverse.

HEADCOUNT BY OCCUPATION GROUP AND ETHNICITY

This chart shows the proportion (not the actual count of employees) of ethnicities reported within each occupation group. The table below details the actual count of employees for whom an ethnicity was reported.

The pie chart, on the next page, shows the distribution of all reported ethnicities for all DHBs.

Figure 3: Proportion of ethnicities by occupation group

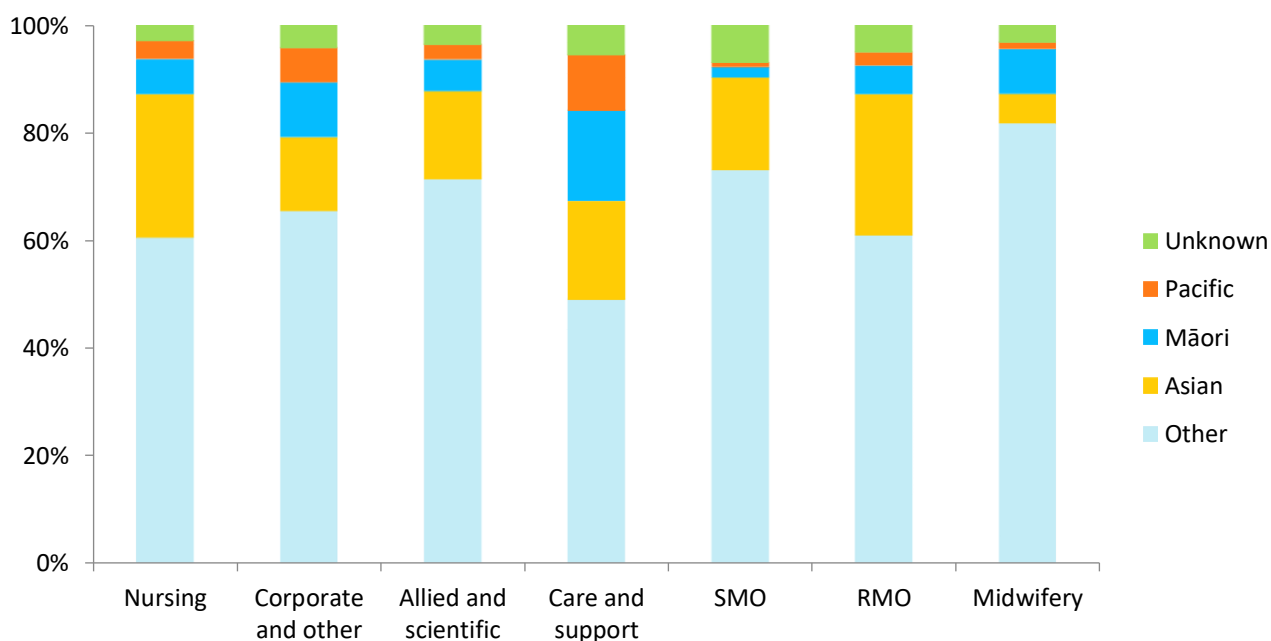


Table 4: Count and proportion of ethnicities by occupation group

| Occupation group | Other* | | Asian | | Māori | | Pacific | | Unknown | | Total |
|------------------------------|---------------|--------------|---------------|--------------|--------------|-------------|--------------|-------------|--------------|-------------|---------------|
| Nursing | 18,237 | 60.7% | 7,964 | 26.5% | 1,977 | 6.6% | 1,001 | 3.3% | 880 | 2.9% | 30,059 |
| Corporate and other | 10,451 | 65.5% | 2,185 | 13.7% | 1,626 | 10.2% | 1,012 | 6.3% | 678 | 4.3% | 15,952 |
| Allied and scientific | 9,048 | 71.4% | 2,077 | 16.4% | 742 | 5.9% | 355 | 2.8% | 457 | 3.6% | 12,679 |
| Care and support | 4,021 | 49.1% | 1,498 | 18.3% | 1,382 | 16.9% | 832 | 10.2% | 452 | 5.5% | 8,185 |
| SMO | 4,173 | 73.0% | 984 | 17.2% | 113 | 2.0% | 51 | 0.9% | 394 | 6.9% | 5,715 |
| RMO | 2,727 | 61.0% | 1,169 | 26.2% | 237 | 5.3% | 112 | 2.5% | 223 | 5.0% | 4,468 |
| Midwifery | 1,264 | 81.7% | 86 | 5.6% | 129 | 8.3% | 19 | 1.2% | 50 | 3.2% | 1,548 |
| Grand Total | 49,921 | 63.5% | 15,963 | 20.3% | 6,206 | 7.9% | 3,382 | 4.2% | 3,134 | 4.0% | 78,606 |

* 'Other' is a group amalgamation of all ethnicities that do not fall into the groups Asian, Māori or Pacific.

This pie chart is based on the 75,472 permanent employees who declared their ethnicity as Asian, Māori, Pacific or Other. Below this is a similar pie chart of ethnicity proportions in the New Zealand population based on projections of population data by Statistics New Zealand for 30 June 2020.

Figure 4: Proportion of identifiable ethnicities for all DHB employees

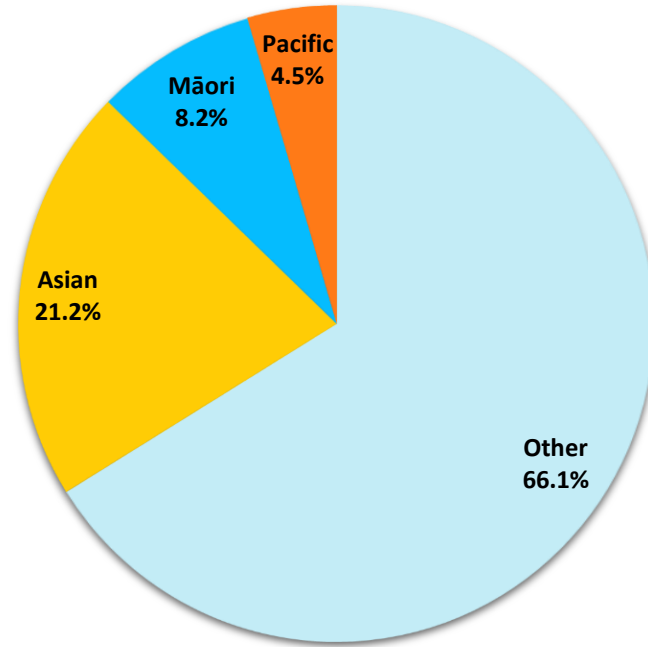
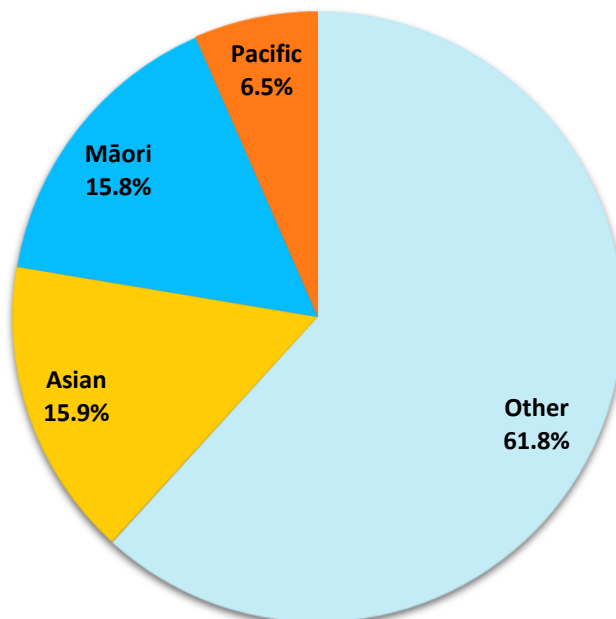


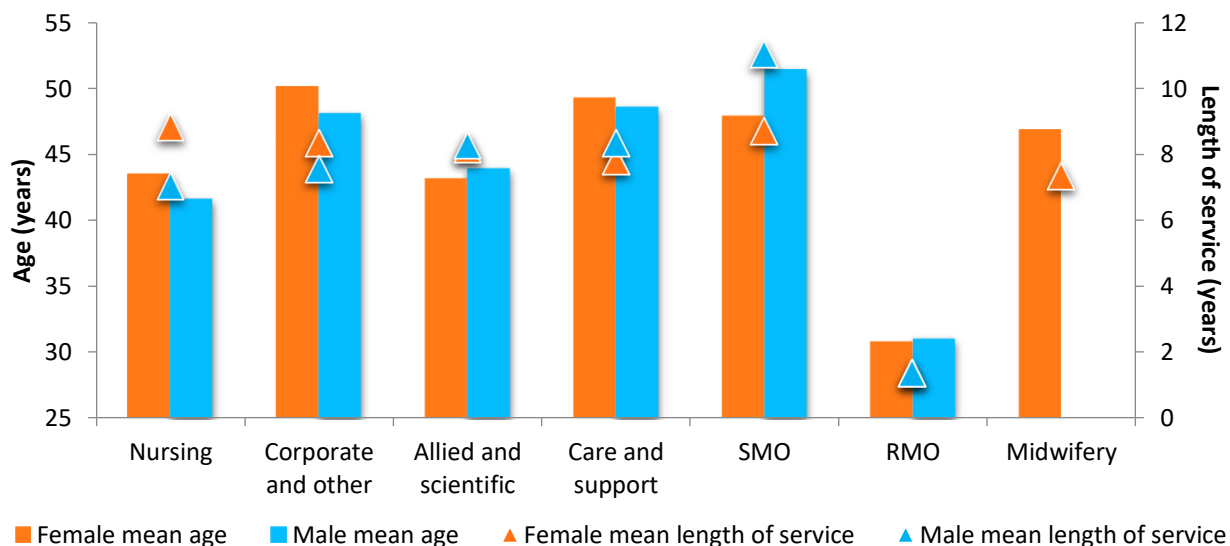
Figure 5: Proportion of identifiable ethnicities for projected population data at 30 June 2020



AGES AND LENGTH OF SERVICE

Figure 6: Mean ages and length of service by occupation group and gender

The bars in this chart show the average age (left hand axis) for each occupation group by gender. The triangles represent the average length of service (right hand axis), also by occupation group and gender.



The following table gives the actual figures behind the chart above.

Table 5: Mean ages and length of service by occupation group and gender

| Occupation group | Female | | Male | | Total | |
|-----------------------|------------------------|-------------|------------------------|-------------|------------------------|-------------|
| | Mean length of service | Mean age | Mean length of service | Mean age | Mean length of service | Mean age |
| Nursing | 8.8 | 43.5 | 7.0 | 41.6 | 8.6 | 43.3 |
| Corporate and other | 8.4 | 50.1 | 7.5 | 48.1 | 8.2 | 49.7 |
| Allied and scientific | 8.1 | 43.1 | 8.3 | 43.9 | 8.2 | 43.3 |
| Care and support | 7.8 | 49.2 | 8.3 | 48.6 | 7.9 | 49.1 |
| SMO | 8.7 | 47.9 | 11.1 | 51.4 | 10.1 | 50.0 |
| RMO | 1.4 | 30.8 | 1.4 | 31.0 | 1.4 | 30.9 |
| Midwifery | 7.3 | 46.8 | 12.6 | 48.3 | 7.3 | 46.8 |
| Grand Total | 8.2 | 45.1 | 7.6 | 44.7 | 8.1 | 45.0 |

TABLES AND CHARTS BY DHB

This section looks at the same statistics given in the first section but broken down by DHB rather than occupation group. Page 7 has a table of figures for FTE and headcount which looks at both DHB and occupation grouping.

COUNT OF EMPLOYEES AND MEAN FTE BY GENDER AND DHB

This chart examines the number (headcount) of employees by gender and DHB (left hand axis). The DHBs have been ordered in descending size of employee headcount. The right hand axis refers to the mean FTE for all employees (by DHB and gender). The following table shows the count of employees and mean FTE by gender for each DHB.

Figure 7: Headcount and mean FTE by gender and DHB

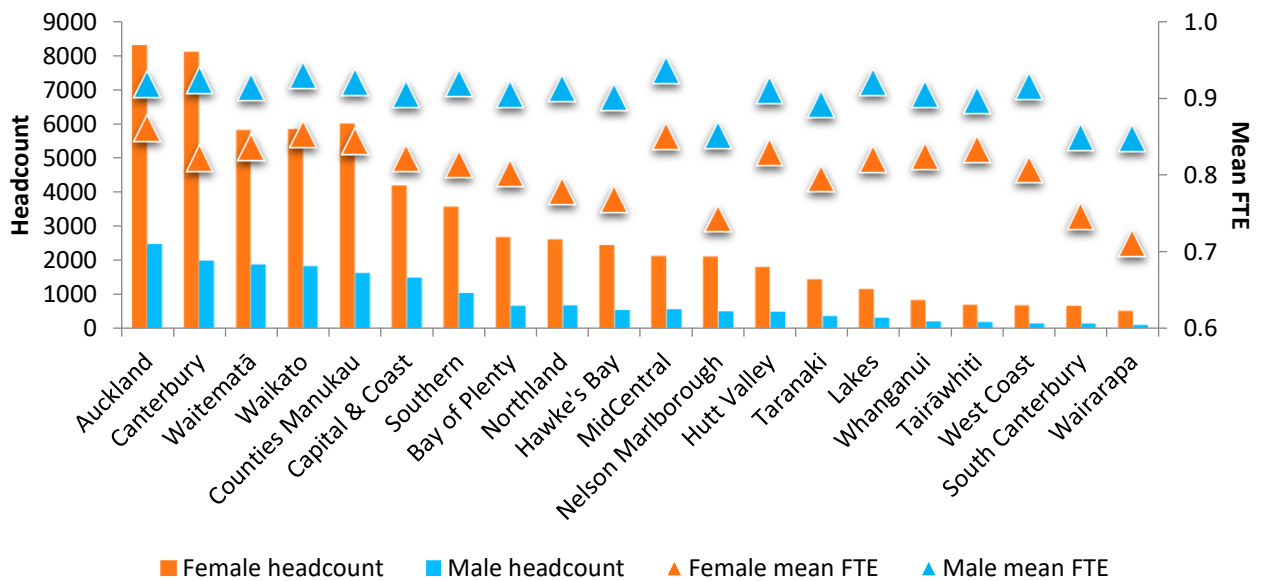


Table 6: Headcount and mean FTE by gender and DHB

| | Auckland | Canterbury | Waitematā | Waikato | Counties Manukau | Capital & Coast | Southern | Bay of Plenty | Northland | Hawke's Bay | MidCentral | Nelson Marlborough | Hutt Valley | Taranaki | Lakes | Whanganui | Tairāwhiti | West Coast | South Canterbury | Wairarapa | |
|---------------|----------|------------|-----------|---------|------------------|-----------------|----------|---------------|-----------|-------------|------------|--------------------|-------------|----------|-------|-----------|------------|------------|------------------|-----------|--|
| Female | | | | | | | | | | | | | | | | | | | | | |
| Headcount | 8,304 | 8,129 | 5,828 | 5,850 | 6,010 | 4,193 | 3,564 | 2,676 | 2,613 | 2,431 | 2,126 | 2,111 | 1,789 | 1,429 | 1,146 | 817 | 682 | 673 | 647 | 516 | |
| Mean FTE | 0.86 | 0.82 | 0.84 | 0.85 | 0.84 | 0.82 | 0.81 | 0.80 | 0.78 | 0.77 | 0.85 | 0.74 | 0.83 | 0.80 | 0.82 | 0.83 | 0.83 | 0.81 | 0.75 | 0.71 | |
| Male | | | | | | | | | | | | | | | | | | | | | |
| Headcount | 2,469 | 1,988 | 1,871 | 1,821 | 1,616 | 1,483 | 1,026 | 657 | 663 | 529 | 556 | 495 | 485 | 359 | 312 | 198 | 179 | 138 | 132 | 92 | |
| Mean FTE | 0.92 | 0.92 | 0.91 | 0.93 | 0.92 | 0.91 | 0.92 | 0.91 | 0.91 | 0.90 | 0.94 | 0.85 | 0.91 | 0.89 | 0.92 | 0.91 | 0.90 | 0.92 | 0.85 | 0.85 | |
| Total | | | | | | | | | | | | | | | | | | | | | |
| Headcount | 10,775 | 10,117 | 7,699 | 7,671 | 7,626 | 5,676 | 4,590 | 3,333 | 3,276 | 2,960 | 2,682 | 2,606 | 2,274 | 1,788 | 1,458 | 1,015 | 861 | 811 | 779 | 608 | |
| Mean FTE | 0.87 | 0.84 | 0.86 | 0.87 | 0.86 | 0.84 | 0.84 | 0.82 | 0.81 | 0.79 | 0.87 | 0.76 | 0.85 | 0.81 | 0.84 | 0.84 | 0.85 | 0.83 | 0.76 | 0.73 | |

MEAN AGES AND MEAN LENGTH OF SERVICE BY DHB AND GENDER

This chart shows the mean age of employees in each DHB by gender (left hand axis) and has been ordered by descending average age. The triangles represent the average length of service (right hand axis) by gender and DHB.

Figure 8: Mean ages and mean length of service by DHB and gender

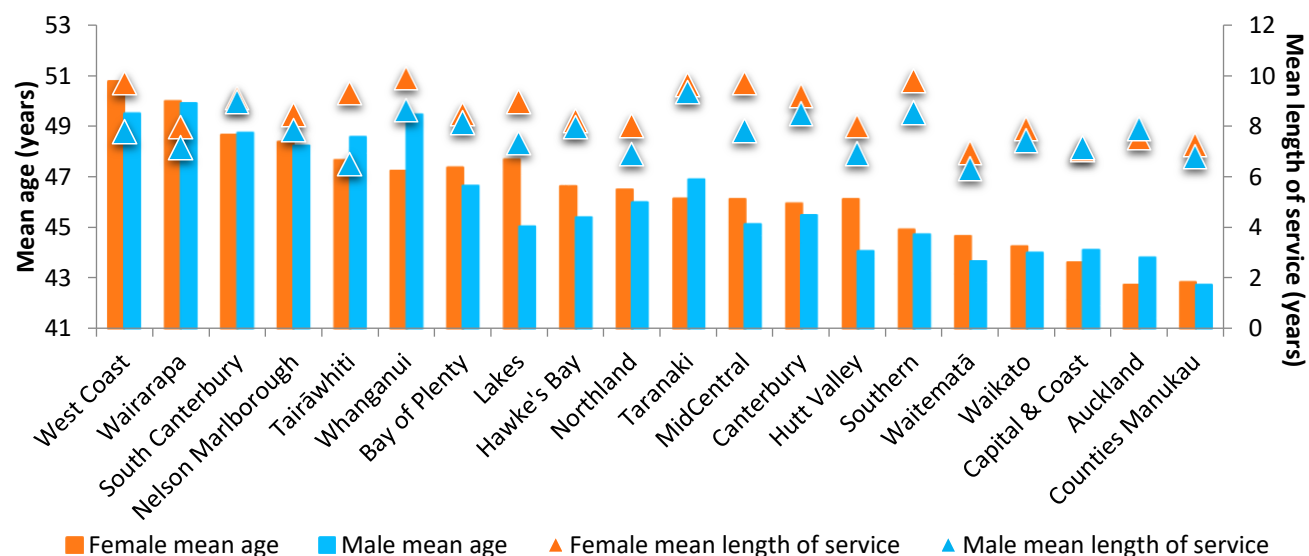


Table 7: Mean ages and mean length of service by DHB and gender

| DHB | Female mean length of service | Female mean age | Male mean length of service | Male mean age | All staff mean length of service | All staff mean age |
|--------------------|-------------------------------|-----------------|-----------------------------|---------------|----------------------------------|--------------------|
| West Coast | 9.7 | 50.7 | 7.8 | 49.5 | 9.4 | 50.5 |
| Wairarapa | 7.9 | 50.0 | 7.2 | 49.9 | 7.8 | 50.0 |
| South Canterbury | 9.1 | 48.7 | 9.0 | 48.7 | 9.1 | 48.7 |
| Nelson Marlborough | 8.5 | 48.4 | 7.8 | 48.2 | 8.3 | 48.3 |
| Tairāwhiti | 9.3 | 47.7 | 6.5 | 48.6 | 8.7 | 47.9 |
| Whanganui | 9.9 | 47.3 | 8.6 | 49.5 | 9.6 | 47.7 |
| Bay of Plenty | 8.5 | 47.4 | 8.1 | 46.6 | 8.4 | 47.2 |
| Lakes | 9.0 | 47.7 | 7.3 | 45.0 | 8.6 | 47.1 |
| Hawke's Bay | 8.2 | 46.6 | 8.0 | 45.4 | 8.2 | 46.4 |
| Northland | 8.0 | 46.5 | 6.9 | 46.0 | 7.8 | 46.4 |
| Taranaki | 9.6 | 46.1 | 9.3 | 46.9 | 9.6 | 46.3 |
| MidCentral | 9.7 | 46.1 | 7.8 | 45.1 | 9.3 | 45.9 |
| Canterbury | 9.2 | 45.9 | 8.5 | 45.5 | 9.1 | 45.9 |
| Hutt Valley | 8.0 | 46.1 | 6.9 | 44.1 | 7.8 | 45.7 |
| Southern | 9.8 | 44.9 | 8.5 | 44.7 | 9.5 | 44.9 |
| Waitematā | 6.9 | 44.7 | 6.3 | 43.7 | 6.8 | 44.4 |
| Waikato | 7.9 | 44.3 | 7.4 | 44.0 | 7.8 | 44.2 |
| Capital & Coast | 7.0 | 43.6 | 7.2 | 44.1 | 7.1 | 43.8 |
| Auckland | 7.5 | 42.7 | 7.9 | 43.8 | 7.6 | 43.0 |
| Counties Manukau | 7.3 | 42.8 | 6.8 | 42.7 | 7.2 | 42.8 |
| Grand Total | 8.2 | 45.1 | 7.6 | 44.7 | 8.1 | 45.0 |

ETHNICITIES BY DHB

The following chart shows the proportion of ethnicities within each DHB employee population (ordered by descending proportion of 'unknown' ethnicities). It does not represent the actual number of people by each ethnicity; this is detailed in the table further below.

Figure 9: Proportion of reported ethnicities by DHB

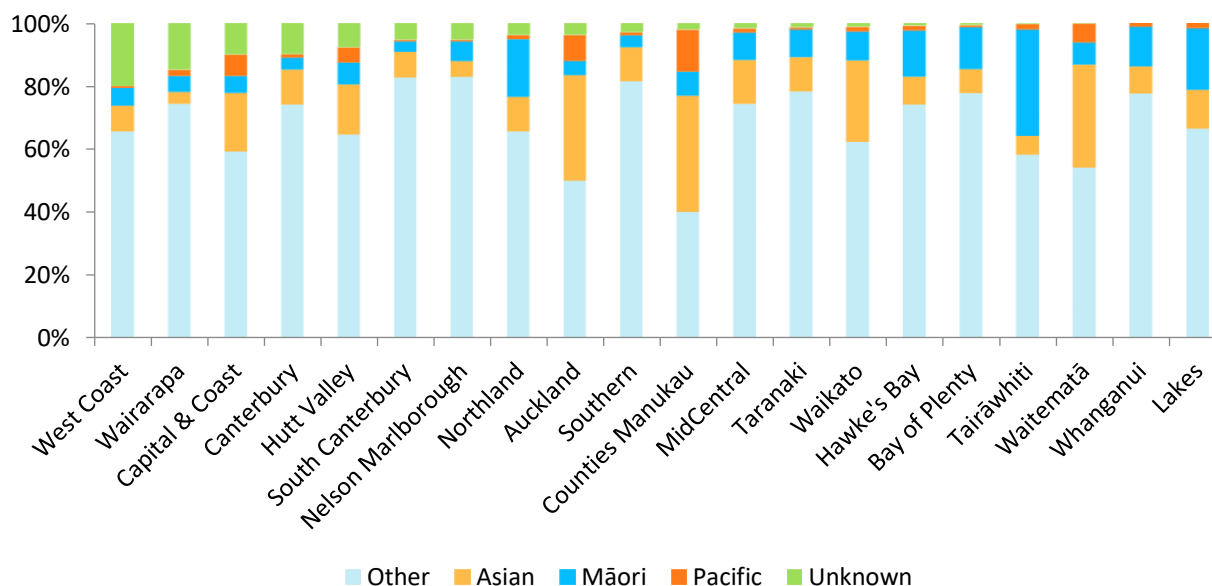


Table 8: Distribution of reported ethnicities by DHB

| DHB | Other* | Asian | Māori | Pacific | Unknown | Total |
|--------------------|---------------|---------------|--------------|--------------|--------------|---------------|
| West Coast | 533 | 67 | > 40 | > 4 | 160 | 811 |
| Wairarapa | 452 | 24 | 31 | 12 | 89 | 608 |
| Capital & Coast | 3,376 | 1,048 | 313 | 379 | 560 | 5,676 |
| Canterbury | 7,498 | 1,119 | 404 | 123 | 973 | 10,117 |
| Hutt Valley | 1,470 | 365 | 159 | 105 | 175 | 2,274 |
| South Canterbury | 644 | 64 | 26 | ** | 41 | 779 |
| Nelson Marlborough | 2,158 | 135 | 164 | 14 | 135 | 2,606 |
| Northland | 2,151 | 365 | 592 | 44 | 124 | 3,276 |
| Auckland | 5,417 | 3,585 | 491 | 891 | 391 | 10,775 |
| Southern | 3,738 | 491 | 185 | 42 | 134 | 4,590 |
| Counties Manukau | 3,075 | 2,808 | 585 | 1,008 | 150 | 7,626 |
| MidCentral | 1,995 | 372 | 233 | 39 | 43 | 2,682 |
| Taranaki | 1,401 | 194 | 157 | 12 | 24 | 1,788 |
| Waikato | 4,789 | 1,977 | 694 | 129 | 82 | 7,671 |
| Hawke's Bay | 2,197 | 261 | 434 | 43 | 25 | 2,960 |
| Bay of Plenty | 2,592 | 257 | 440 | 25 | 19 | 3,333 |
| Tairāwhiti | 502 | 54 | 288 | > 10 | ** | 861 |
| Waitematā | 4,174 | 2,508 | 553 | > 450 | > 4 | 7,699 |
| Whanganui | 788 | 89 | 128 | 11 | 0 | 1,016 |
| Lakes | 971 | 180 | 283 | 24 | 0 | 1,458 |
| Grand Total | 49,921 | 15,963 | 6,206 | 3,382 | 3,134 | 78,606 |

* 'Other' is a group amalgamation of all ethnicities that do not fall into the groups Asian, Māori or Pacific.

** Data suppressed (headcounts less than 5)

ANALYSIS BY DHB AND OCCUPATION GROUP

LENGTH OF SERVICE BY OCCUPATION GROUP AND DHB

The following table shows the mean length of service for each occupation group by DHB. To read this table, look at the occupation column. The green colours represent a longer than national average length of service, the yellow colours are similar to the national average while red colours are lower than the national average. The final column (all staff) has ordered the DHBs by longer to shorter lengths of service.

Table 9: Mean length of service by occupation group and DHB

| DHB | Nursing | Corporate and other | Allied and scientific | Care and support | SMO | RMO | Midwifery | All staff |
|--------------------|------------|---------------------|-----------------------|------------------|-------------|------------|------------|------------|
| Whanganui | 10.0 | 9.7 | 10.5 | 9.8 | 9.6 | 1.1 | 10.2 | 9.6 |
| Taranaki | 10.4 | 10.3 | 9.7 | 10.1 | 8.3 | 1.5 | 8.5 | 9.6 |
| Southern | 10.9 | 9.8 | 8.8 | 8.6 | 10.9 | 2.2 | 8.9 | 9.5 |
| West Coast | 9.9 | 7.6 | 9.7 | 11.2 | 7.6 | 1.3 | 10.8 | 9.4 |
| MidCentral | 10.5 | 9.3 | 9.0 | 8.0 | 10.8 | 1.8 | 8.6 | 9.3 |
| South Canterbury | 10.1 | 8.5 | 9.2 | 11.1 | 7.1 | 1.0 | 6.4 | 9.1 |
| Canterbury | 10.1 | 7.9 | 9.5 | 9.2 | 11.3 | 2.2 | 8.7 | 9.1 |
| Tairāwhiti | 10.7 | 7.8 | 7.7 | 8.1 | 8.1 | 1.0 | 6.0 | 8.7 |
| Lakes | 9.8 | 9.3 | 8.2 | 8.4 | 7.8 | 1.4 | 7.2 | 8.6 |
| Bay of Plenty | 9.5 | 9.1 | 7.6 | 7.3 | 9.7 | 1.5 | 6.5 | 8.4 |
| Nelson | 9.4 | 7.1 | 7.9 | 9.2 | 10.4 | 1.3 | 6.5 | 8.3 |
| Marlborough | 9.4 | 7.1 | 7.9 | 9.2 | 10.4 | 1.3 | 6.5 | 8.3 |
| Hawke's Bay | 8.6 | 8.6 | 8.7 | 7.6 | 10.3 | 1.5 | 7.1 | 8.2 |
| Wairarapa | 8.7 | 6.5 | 8.9 | 7.4 | 9.6 | 0.3 | 4.8 | 7.8 |
| Waikato | 8.4 | 8.2 | 8.2 | 6.8 | 9.9 | 1.9 | 7.0 | 7.8 |
| Northland | 8.4 | 9.0 | 8.4 | 5.4 | 8.5 | 1.3 | 7.4 | 7.8 |
| Hutt Valley | 8.8 | 8.2 | 7.7 | 8.5 | 8.8 | 0.8 | 6.2 | 7.8 |
| Auckland | 7.4 | 7.8 | 7.9 | 8.8 | 10.6 | 0.8 | 6.9 | 7.6 |
| Counties Manukau | 7.1 | 8.1 | 6.9 | 7.4 | 10.3 | 0.7 | 7.3 | 7.2 |
| Capital & Coast | 7.2 | 7.2 | 7.0 | 8.6 | 10.3 | 1.2 | 6.9 | 7.1 |
| Waitematā | 6.7 | 7.0 | 7.4 | 6.5 | 9.7 | 0.7 | 6.8 | 6.8 |
| Grand Total | 8.6 | 8.2 | 8.2 | 7.9 | 10.1 | 1.4 | 7.3 | 8.1 |

ANALYSIS BY SICK LEAVE & ANNUAL LEAVE

SICK LEAVE BY DHB, OCCUPATION GROUP, AGE GROUP AND ETHNICITY BY GENDER

The following radar chart shows the dispersion of sick leave by DHB by looking at the average annualised sick leave hours per contracted FTE. It is based on all contracted employees not on long term leave and excluding those who commenced employment during the reporting quarter, regardless of the amount of sick leave taken during this reporting quarter. The process of annualising the quarter's reported sick leave hours may amplify the impact of outlier events, whether these are negative values (reported to correct an over-statement in a previous quarter) or a potential over-reporting, where a person reportedly took more sick leave than we would expect them to have worked based on their contracted FTE.

To read this graph, the blue line indicates the median (50%) sick leave hours per FTE; i.e. 50% of staff took sick leave hours (per FTE) at or below this value. The yellow line indicates the 3rd quartile (75%) sick leave hours per FTE; i.e. 75% of staff took sick leave hours (per FTE) at or below this value. The order of least sick leave hours per FTE to the most sick leave hours per FTE taken runs clockwise from 12 o'clock.

For example, the data for Taranaki shows that (if the June quarter is indicative) 50% of staff would have taken 32.1 hours sick leave or less (note comments on negative sick leave values above) per FTE over the course of a year, and 75% of staff would have taken 80.2 hours or less of sick leave per FTE over the course of a year.

Figure 10: Average annualised sick leave hours per FTE by DHB

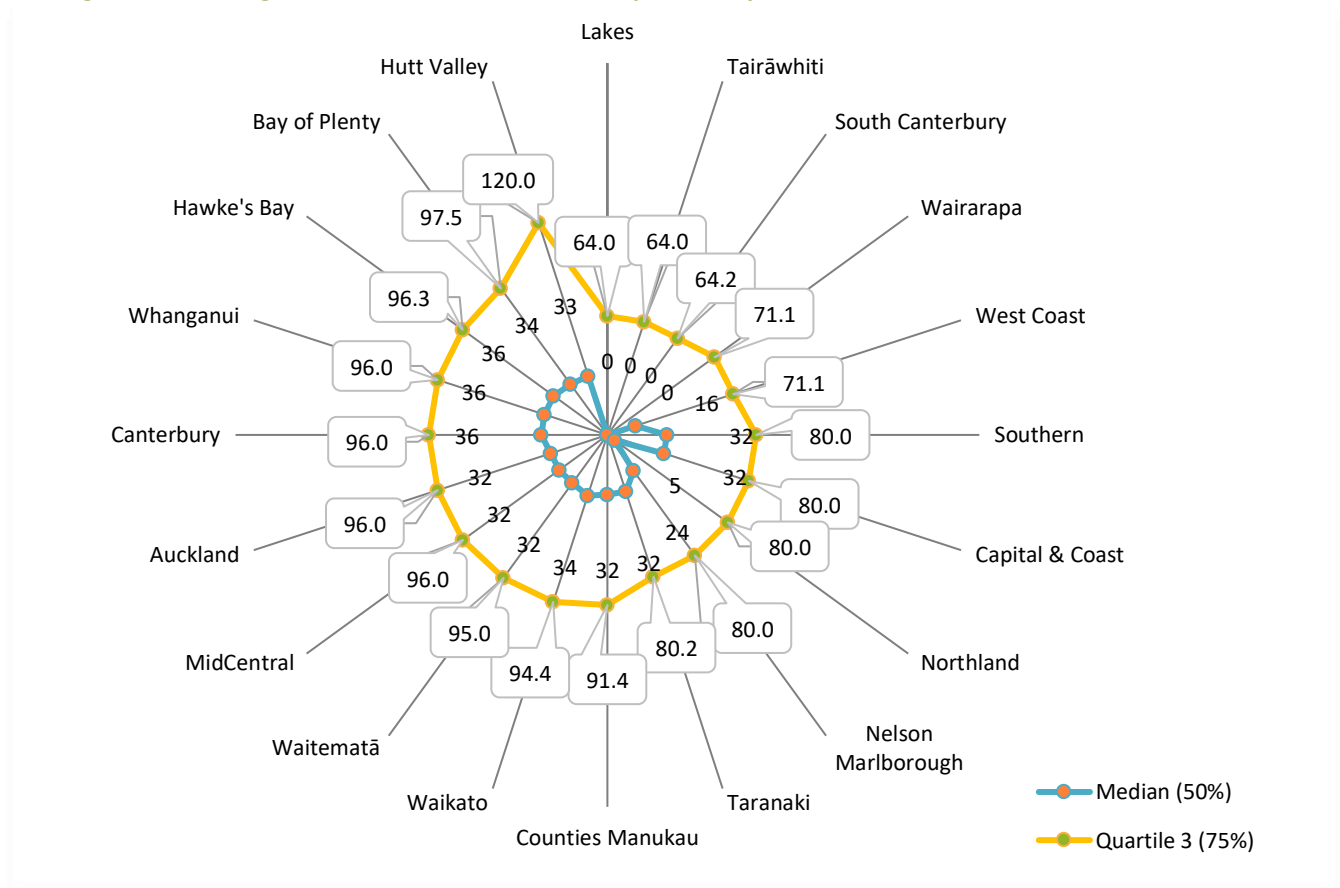


Figure 11: Average annual sick leave hours per FTE by occupational group

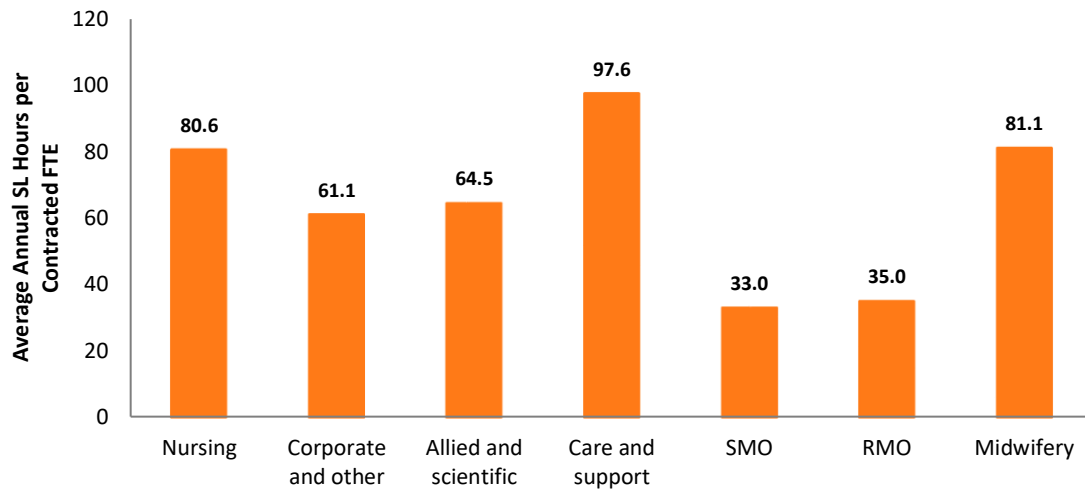


Figure 12: Average annual sick leave hours per FTE by age group by gender

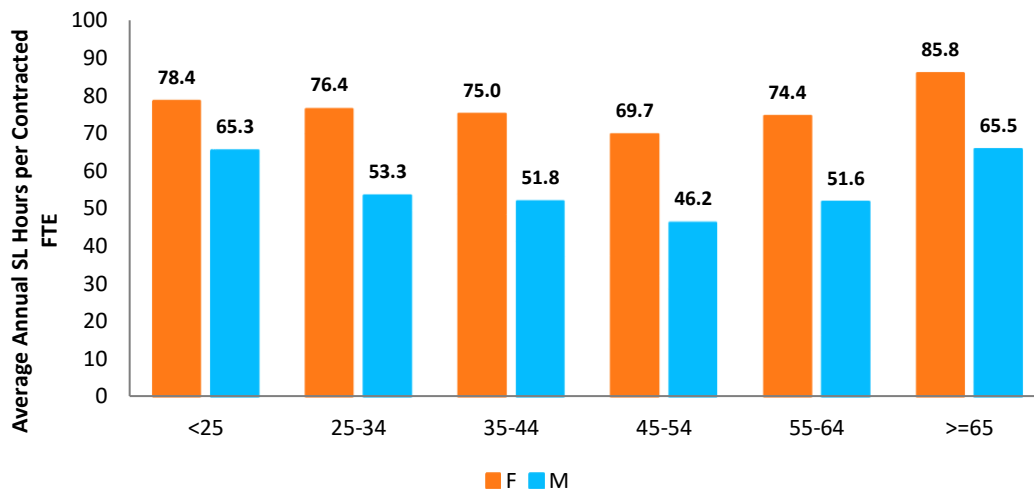
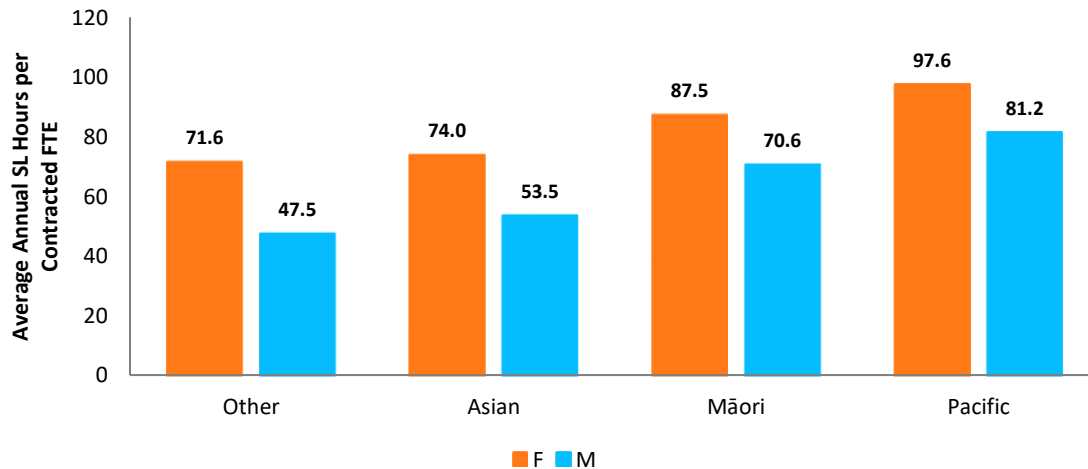


Figure 13: Average annual sick leave hours per FTE by ethnicity by gender



RATIO OF ANNUAL LEAVE BALANCE AND ANNUAL LEAVE ENTITLEMENT BY DHB, OCCUPATION GROUP AND ETHNICITY BY GENDER

In the first chart, the bars represent the ratios of annual leave balance to annual leave entitlement and the blue dotted line represents the national average. For example, a value of 100% means that on average the DHB employees have an annual leave balance equal to their annual leave entitlement. The chart shows that for the first twelve DHBs, on average their employees have more annual leave balance than annual leave entitlement.

The other two charts on page 19 display the ratio of annual leave balance to entitlement per FTE at the national level, grouped by both Occupation Group and Ethnicity (with gender split).

Figure 14: Ratio of annual leave balance to annual leave entitlement hours per FTE by DHB

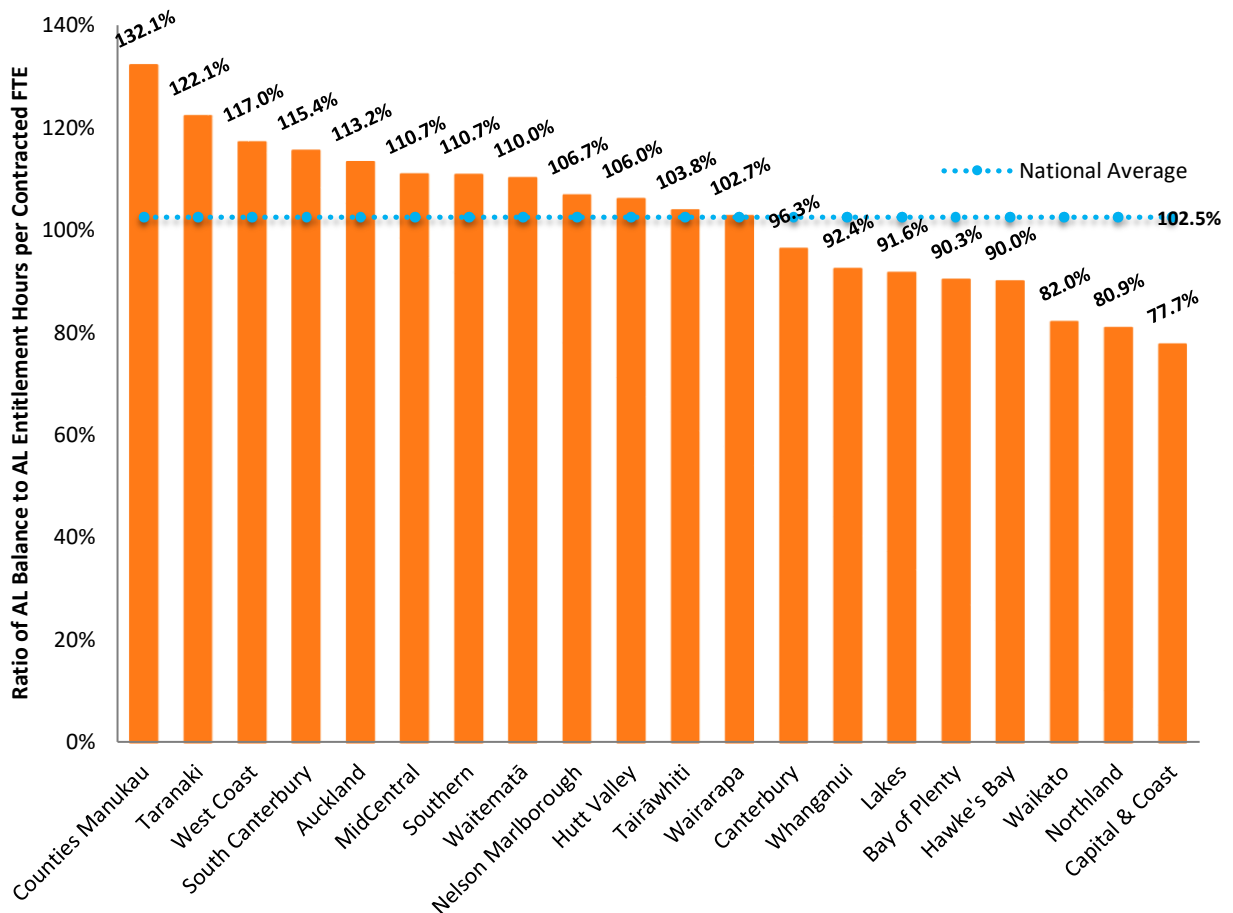


Figure 15: Ratio of annual leave balance to annual leave entitlement hours per FTE by occupational group

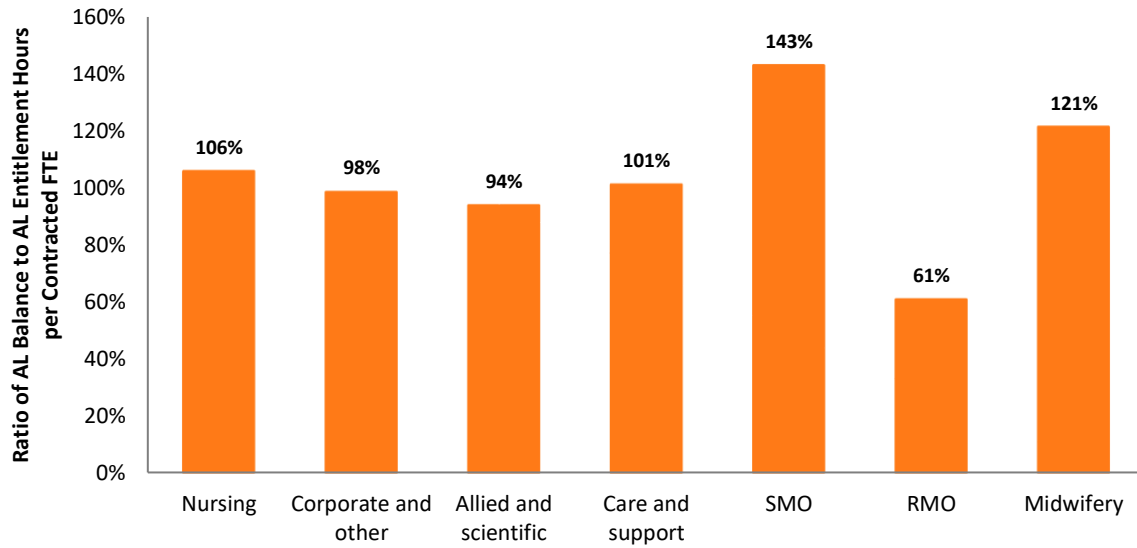
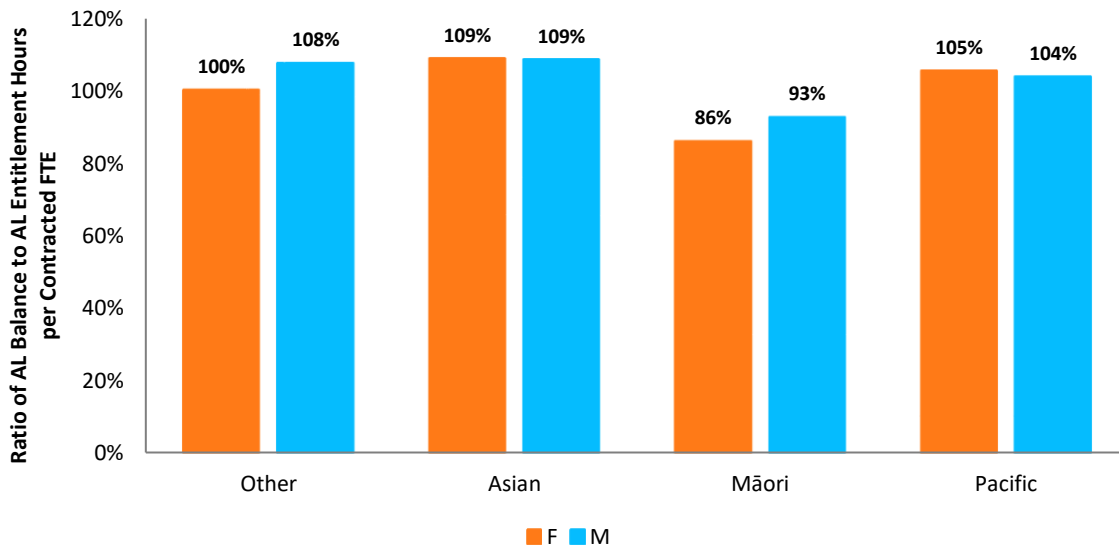


Figure 16: Ratio of annual leave balance to annual leave entitlement hours per FTE by ethnicity by gender

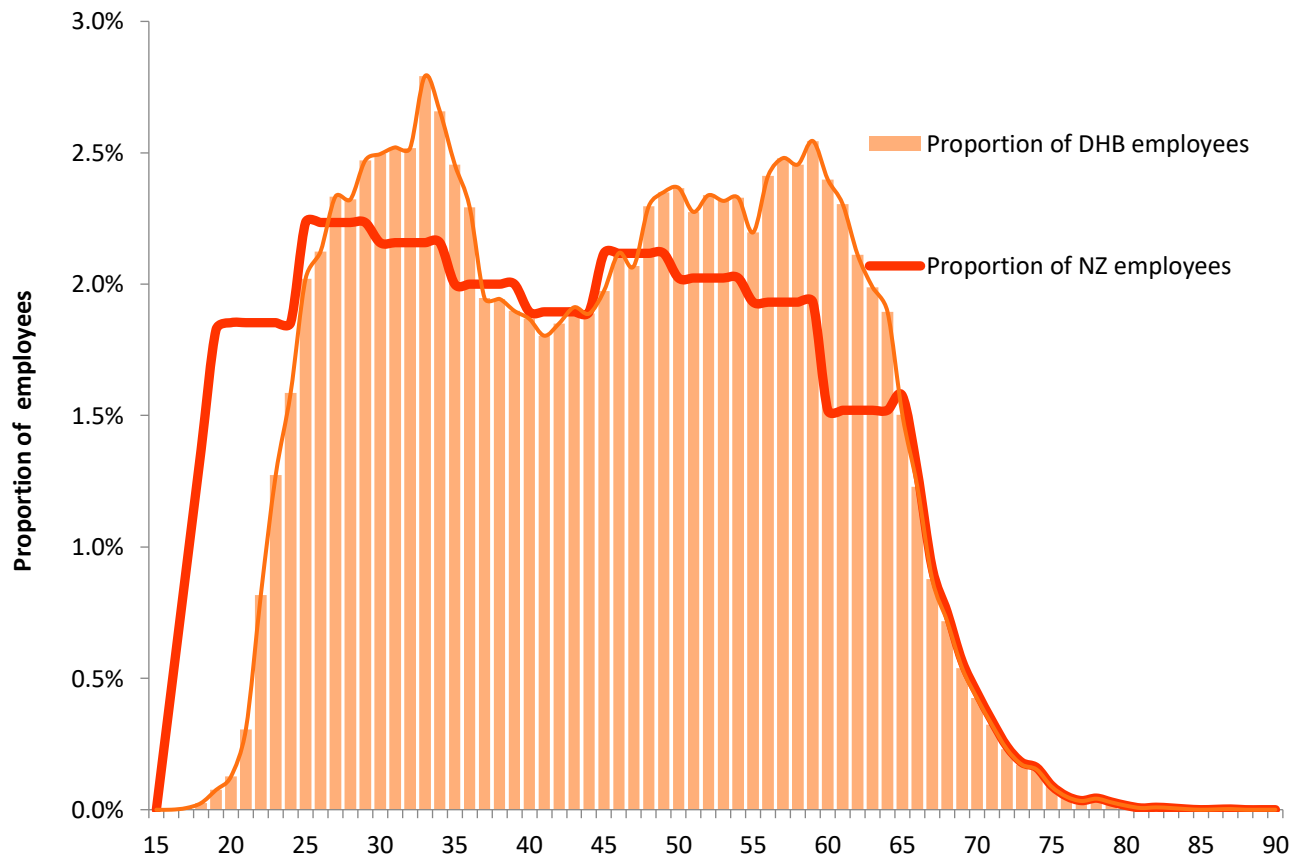


ANALYSIS BY POPULATION

DISTRIBUTION OF OVERALL DHB EMPLOYEES BY AGE, WITH NATIONAL EMPLOYEE DATA

The following chart shows the distribution of ages of DHB employees (histogram with light orange outline). The staggered dark orange line is the distribution of all New Zealand employees for the June 2020 quarter as reported in the Household Labour Force Survey (HLFS) by Statistics New Zealand.

Figure 17: Distribution of overall DHB employees by age, with national employee data



ETHNIC REPRESENTATION OF WORKFORCE TO RESIDENT POPULATION

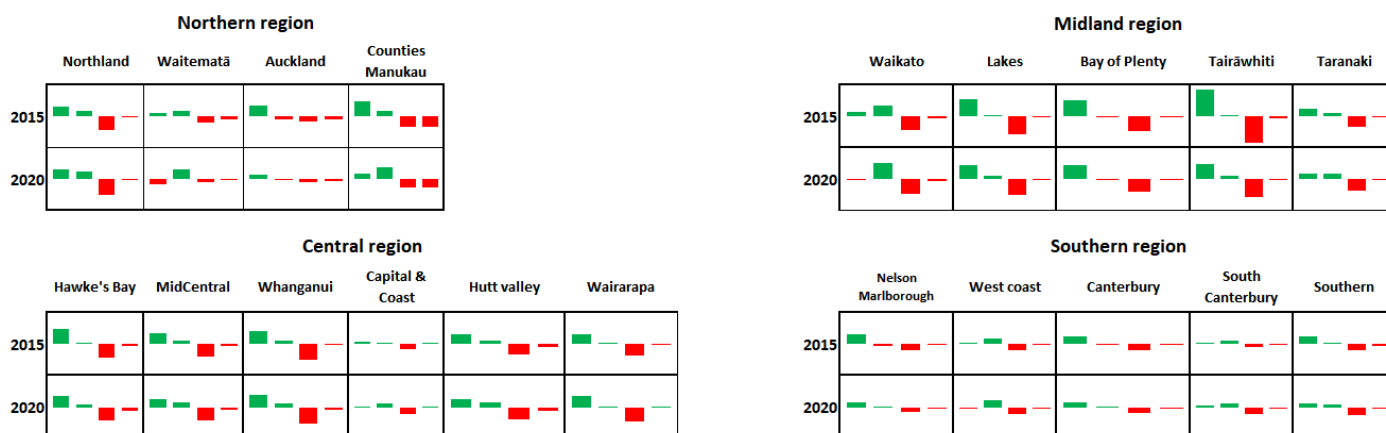
The following charts look at the ethnic representation of DHB staff to the resident population.

The calculations look at the percentage of staff with a known ethnicity and compare it to the percentage of DHB residents with a known ethnicity. This latter data has been interpolated from data produced by Statistics New Zealand and is representative for the quarter being reported on. The proportion of staff with a known ethnicity this quarter was 95.9 percent, compared to 87.8 percent in June 2015.

The four ethnicity groups used are: Other, Asian, Māori and Pacific – ‘Other’ is an amalgamation of all other ethnicities but is primarily European including the ‘New Zealander’ ethnicity. Throughout these charts this is the order of presentation.

When a bar on a chart is green it means the proportion of that ethnicity in the DHB workforce is greater than the population. If a bar is red then the proportion of the DHB workforce is less than that of the resident population. All charts use the same axis scale (as these are spark lines the numbers are not written against the axes), which range from -25% to +26% - so comparisons between DHBs are possible. The data for 2015 has also been added to show any changes over the last five years.

It is important to note that some DHBs have very small counts by ethnicity; for example South Canterbury has fewer than five Pacific employees. This means the data can be quite volatile. Also, those DHBs that are heavily weighted towards a particular ethnicity in their population such as Pacific people in Counties Manukau or Māori in Waikato, will tend to show greater deviations between the DHB workforce ethnicities and the resident population.



Note: The four bars are ordered as: Other, Asian, Māori and Pacific

For some DHBs the ethnic distribution of their staff closely mirrors that of the resident population, such as Capital & Coast. Overall, the distributions have changed only slightly between 2015 and 2020; the ‘Other’ ethnicities have reduced closer to zero (from nine down to four percentage points difference), whereas Māori have marginally less under-representation (from negative nine to negative eight percentage points difference).

POPULATION DENSITY BY OCCUPATIONAL GROUP AND DHB

This section looks at the number of staff per resident population. Staff numbers are contracted FTE figures and they are compared to every 100,000 resident population. Midwives has been compared to the fertile female population (aged 15-49). The important factor to consider in this section is that each DHB may have different models of care (the way services are delivered to the population). For example, only six DHBs provide radiation therapy services, so they may appear to have more staff per head of population but they are actually serving the population from many other DHBs.

Figure 18: Population density of Nurses by DHB

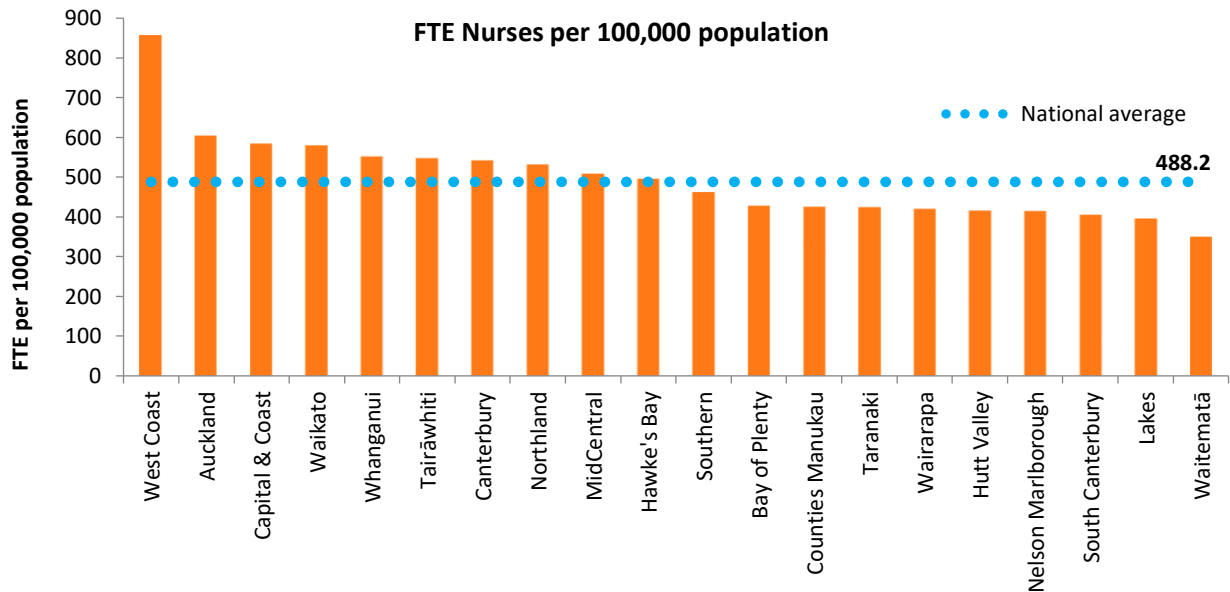


Figure 19: Population density of Corporate & Other by DHB

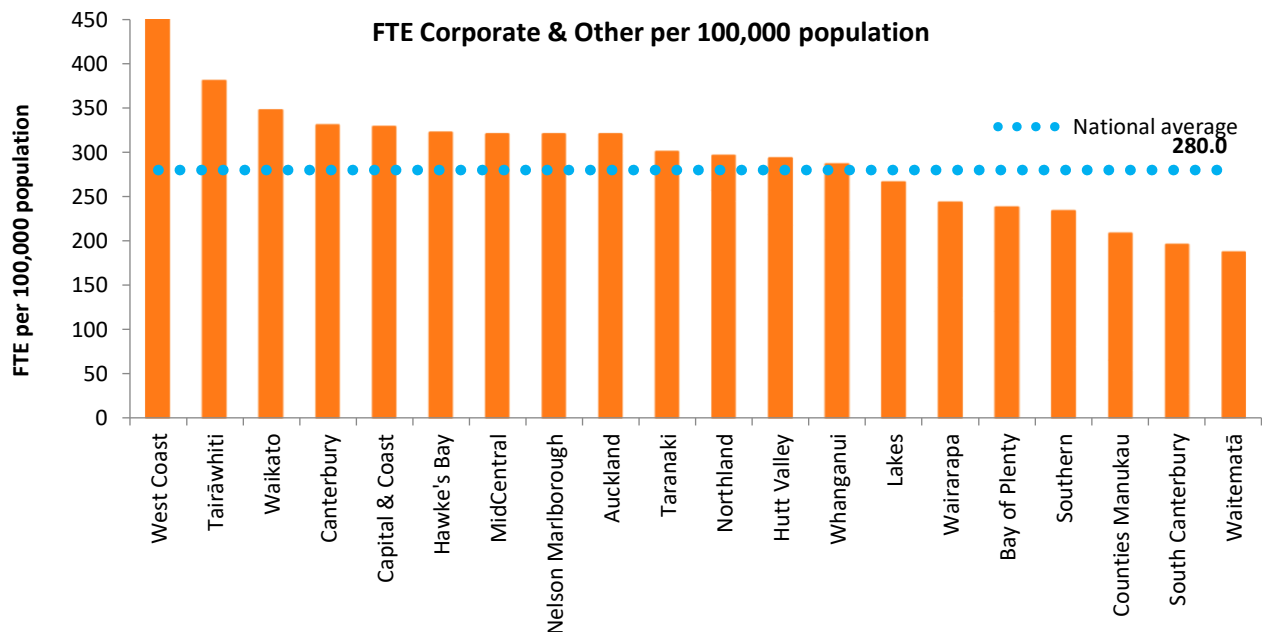


Figure 20: Population density of Allied & Scientific by DHB

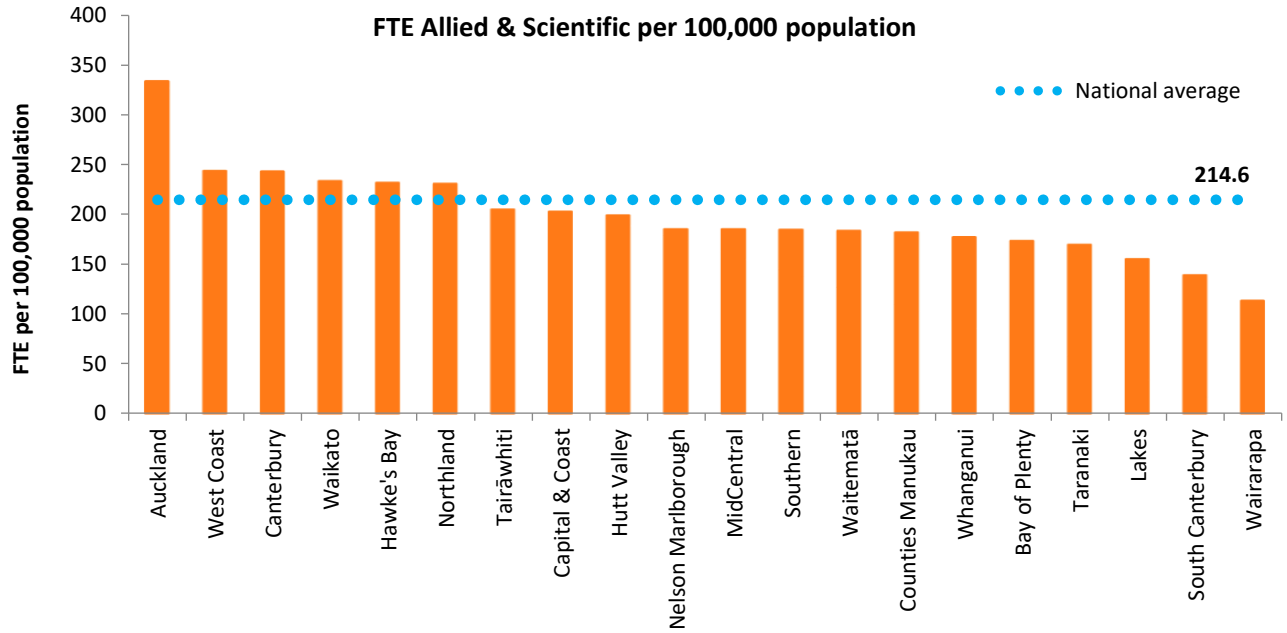


Figure 21: Population density of Care & Support by DHB

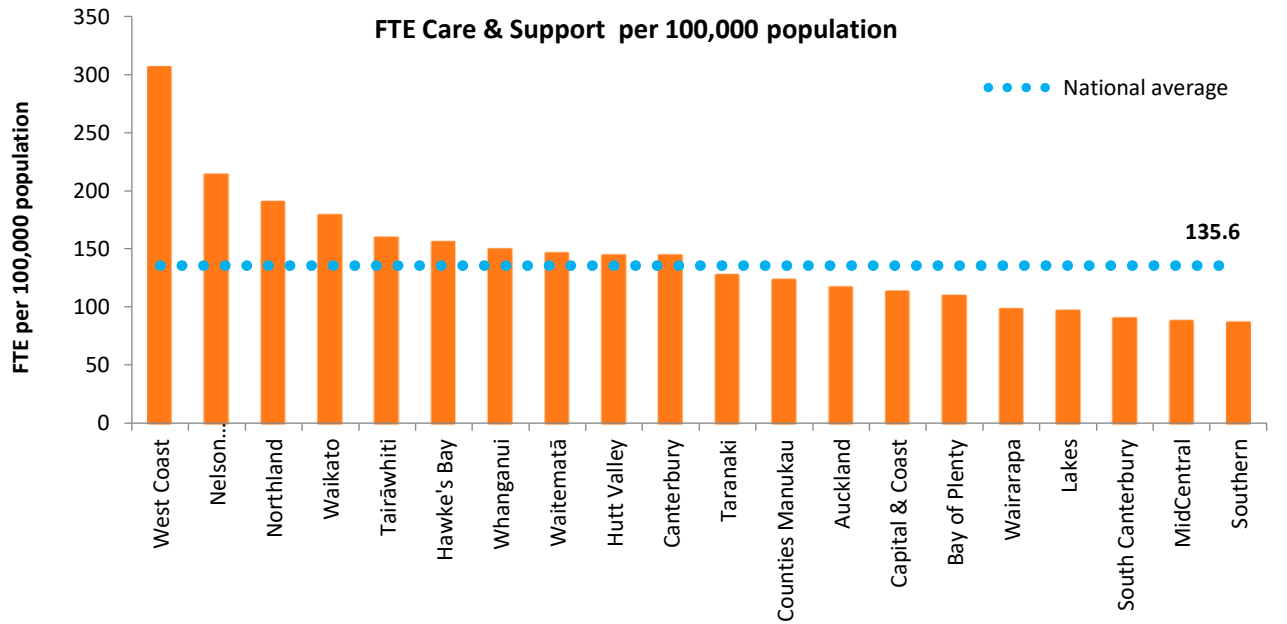


Figure 22: Population density of Senior Medical Officer (SMO) by DHB

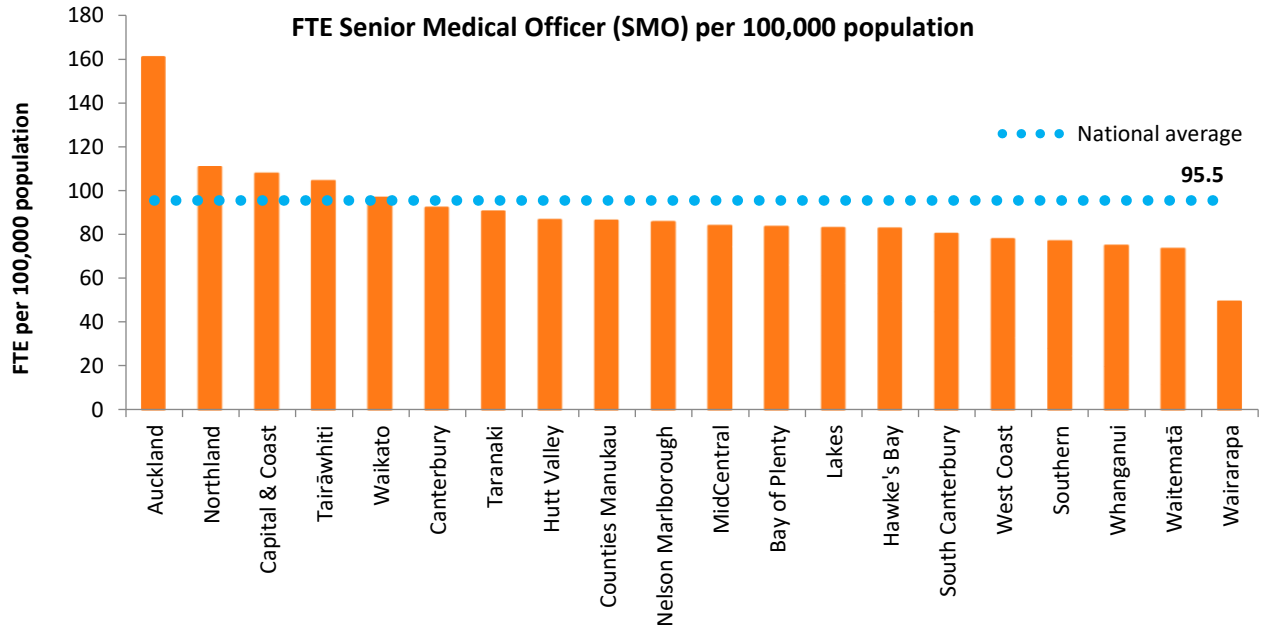


Figure 23: Population density of Resident Medical Officer (RMO) by DHB

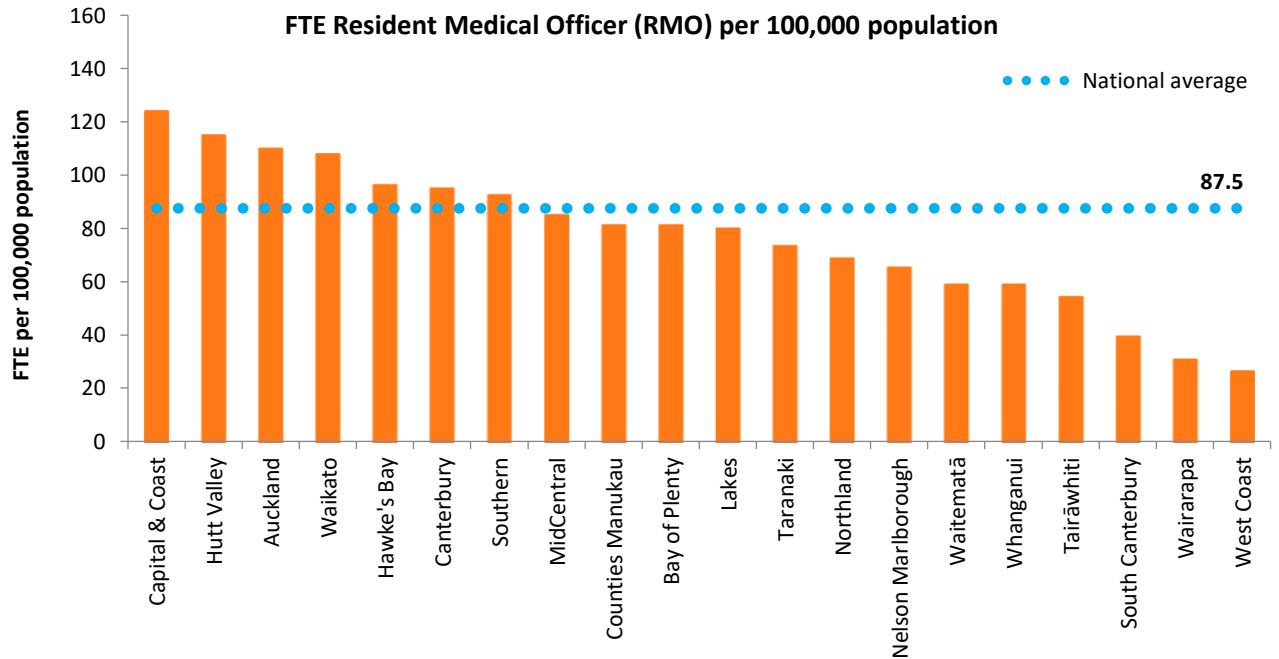


Figure 24: Population density of Midwives by DHB

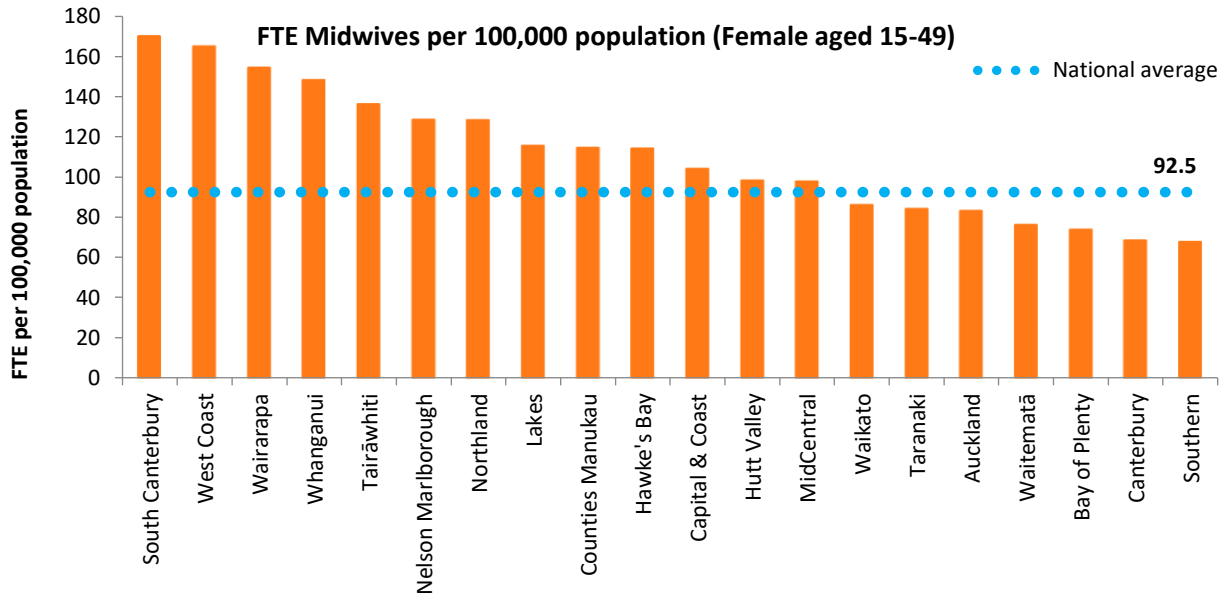


Figure 25: Population density of all DHB staff by DHB

