

DISTRICT HEALTH BOARD EMPLOYED WORKFORCE QUARTERLY REPORT

1 OCTOBER TO 31 DECEMBER 2021

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 October 2021 to 31 December 2021 and is a snapshot in time at 31 December 2021. 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 October 2021 to December 2021 inclusive and is a snapshot taken by the DHBs on 31 December 2021.
- 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.

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Data source: DHB Workforce Information, held by TAS.

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OVERVIEW

DHB WORKFORCE AT A GLANCE

For data to 31 December 2021, 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.

Total employees 80,868 in 82,088 positions* 63,190 female 17,644 male 35 Another Gender	69,136 FTE 52,851 FTE** females 16,256 FTE** males 29 FTE** Another Gender	Largest occupation group: Nurses – 30,527 employees in 31,127 positions Smallest occupation group: Midwives – 1,395 employees in 1,470 positions
DHB employee average age 45.0 years 45.0 years for females 44.7 years for males	Oldest male occupation group: SMO (mean age 51.4 years) Youngest male occupation group: RMO (mean age 31.4 years)	Oldest female occupation groups: Corporate and Other (mean age 49.7 years) Youngest female occupation group: RMO (mean age 31.2 years)
Mean FTE rate 0.85 per employee Mean FTE rate for females 0.84 Mean FTE rate for males 0.92	Longest Length of Service occupation group SMO (mean 10.2 years) Shortest Length of Service occupation group RMO (mean 1.6 years)	Employee reported ethnicities: Other*** - 63.0% Asian - 23.5% Māori - 8.7% Pacific - 4.8%

- * The count of employees is a distinct count of individual employees. These employees may hold more than one role, so the Headcount quoted in this report (which is based on total number of positions) will often be larger.
- ** 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'.

DISTRIBUTION OF EMPLOYEES

This chart shows the number of employees (a distinct count of employee numbers) 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). If an individual has already been included in the Employed total but also holds a casual contract, they have not been counted again in the Others column. The chart has been ordered in descending order of DHB workforce size. The table below the chart gives the actual count of employees.

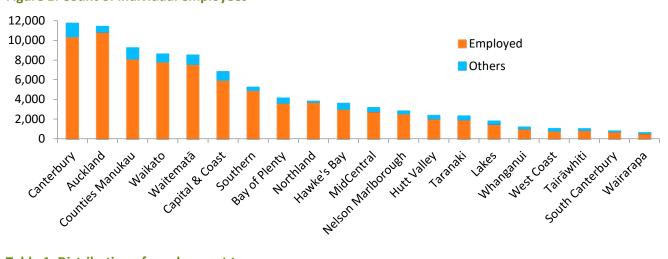


Figure 1: Count of individual employees

Table 1: Distribution of employment types

DHB	Employed	Others	Total	Proportion of DHB workforce
Canterbury	10,335	1,355	11,690	12.9%
Auckland	10,788	603	11,391	12.5%
Counties Manukau	8,090	1,133	9,223	10.2%
Waikato	7,798	793	8,591	9.5%
Waitematā	7,559	939	8,498	9.4%
Capital & Coast	5,954	870	6,824	7.5%
Southern	4,919	347	5,266	5.8%
Bay of Plenty	3,644	523	4,167	4.6%
Northland	3,727	118	3,845	4.2%
Hawke's Bay	3,038	599	3,637	4.0%
MidCentral	2,783	418	3,201	3.5%
Nelson Marlborough	2,579	297	2,876	3.2%
Hutt Valley	2,059	362	2,421	2.7%
Taranaki	1,966	396	2,362	2.6%
Lakes	1,521	319	1,840	2.0%
Whanganui	1,045	196	1,241	1.4%
West Coast	828	265	1,093	1.2%
Tairāwhiti	903	182	1,085	1.2%
South Canterbury	751	125	876	1.0%
Wairarapa	581	90	671	0.7%
Grand Total	80,868	9,930	90,798	100.0%

NOTE: In prior quarters, this table was based on a count of positions, which had the potential to count individual employees more than once if they held multiple positions with a DHB. Individuals may still be counted more than once if they hold positions with multiple DHBs.

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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. When a person is reported under multiple positions for a single occupation group, the greatest length of service value is used for the individual.

EMPLOYEE COUNT AND FTE BY DHB AND OCCUPATION GROUP

The following table shows the distinct count 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: Employee count and FTE by DHB and occupation group

	C 2. Emp	Nursing			rporate and oth		A	llied & scientific		Ca	re and support			SMO			RMO			Midwifery	
DHB	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE	Employee count	FTE	Mean FTE
Auckland	3,833	3,333.1	0.87	2,149	1,955.1	0.91	2,142	1,911.5	0.89	794	737.5	0.93	1,099	926.3	0.84	634	625.8	0.99	164	126.9	0.77
Bay of Plenty	1,389	1,069.1	0.77	803	695.1	0.87	562	473.3	0.84	364	296.9	0.82	265	219.3	0.83	209	205.8	0.98	52	34.8	0.67
Canterbury	3,940	3,274.8	0.83	2,321	2,033.2	0.88	1,696	1,401.5	0.83	1,028	824.6	0.80	661	557.6	0.84	559	548.7	0.98	130	88.2	0.68
Capital & Coast	2,364	2,003.5	0.85	1,332	1,234.9	0.93	815	712.0	0.87	495	440.3	0.89	462	381.1	0.82	413	398.9	0.97	102	76.2	0.75
Counties Manukau	3,066	2,667.9	0.87	1,524	1,317.5	0.86	1,213	1,082.3	0.89	1,016	899.3	0.89	619	526.0	0.85	464	456.9	0.98	201	154.5	0.77
Hawke's Bay	1,141	891.3	0.78	670	589.4	0.88	481	408.3	0.85	358	290.9	0.81	174	145.9	0.84	178	175.4	0.99	45	33.6	0.75
Hutt Valley	721	579.1	0.80	428	384.5	0.90	313	262.1	0.84	233	199.5	0.86	157	118.2	0.75	167	160.8	0.96	41	27.4	0.67
Lakes	608	474.1	0.78	352	315.7	0.90	193	161.3	0.84	147	123.8	0.84	108	94.6	0.88	82	82.0	1.00	31	22.5	0.73
MidCentral	1,129	924.5	0.82	658	607.5	0.92	405	354.0	0.87	196	164.9	0.84	181	162.9	0.90	167	163.5	0.98	47	32.5	0.69
Nelson Marlborough	812	628.2	0.77	595	500.3	0.84	371	289.8	0.78	501	368.3	0.74	161	127.7	0.79	103	101.0	0.98	48	33.8	0.70
Northland	1,440	1,097.2	0.76	747	613.9	0.82	524	446.9	0.85	559	383.0	0.69	232	220.7	0.95	146	144.0	0.99	79	47.5	0.60
South Canterbury	327	262.5	0.80	149	125.5	0.84	104	82.2	0.79	74	52.3	0.71	58	51.0	0.88	23	22.9	1.00	22	16.9	0.77
Southern	2,037	1,628.1	0.80	974	874.9	0.90	716	618.8	0.86	453	349.3	0.77	349	304.1	0.87	324	311.6	0.96	66	43.4	0.66
Tairāwhiti	356	283.1	0.80	212	192.9	0.91	131	110.9	0.85	89	76.2	0.86	64	56.8	0.89	33	33.0	1.00	18	14.0	0.78
Taranaki	717	532.4	0.74	481	420.3	0.87	276	221.5	0.80	220	179.8	0.82	145	119.9	0.83	99	96.0	0.97	28	18.6	0.67
Waikato	3,026	2,547.8	0.84	1,675	1,513.7	0.90	1,115	971.3	0.87	907	768.3	0.85	490	439.4	0.90	480	471.0	0.98	105	76.5	0.73
Wairarapa	258	187.8	0.73	147	115.9	0.79	61	46.9	0.77	58	37.7	0.65	28	25.6	0.91	14	14.0	1.00	19	14.3	0.75
Waitematā	2,620	2,281.9	0.87	1,473	1,291.7	0.88	1,338	1,162.7	0.87	1,038	915.3	0.88	572	487.7	0.85	382	373.0	0.98	163	109.2	0.67
West Coast	296	246.0	0.83	231	191.8	0.83	89	79.4	0.89	149	104.2	0.70	39	30.2	0.77	10	9.5	0.95	14	10.4	0.74
Whanganui	447	356.2	0.80	211	185.6	0.88	138	114.1	0.83	123	101.3	0.82	57	51.1	0.90	49	49.0	1.00	20	14.7	0.73
Grand Total	30,527	25,268.4	0.83	17,132	15,159.4	0.88	12,683	10,910.7	0.86	8,802	7,313.2	0.83	5,921	5,045.8	0.85	4,536	4,442.9	0.98	1,395	995.9	0.71



TABLES AND CHARTS BY OCCUPATION GROUPING

EMPLOYEE COUNT AND FTE BY OCCUPATION GROUPING AND GENDER

The bars represent the distinct count (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. As some employees may have roles across multiple Occupation Groups, they may be counted more than once in the group totals, but only once in the Total Staff row in Table 3.

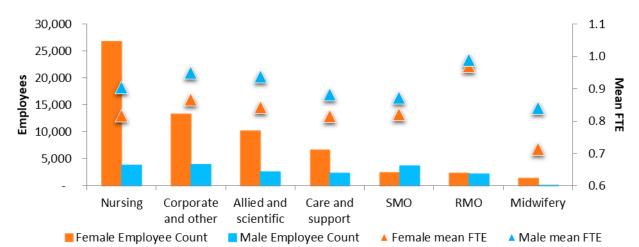


Figure 2: Occupation group distinct employee count and mean FTE by gender

Table 3: Occupation group employee count and mean FTE by gender

	Fema	le	Male	•	Another G	iender	Total		
Occupation group	Employee Count	Mean FTE	Employee Count	Mean FTE	Employee Count	Mean FTE	Employee Count	Mean FTE	
Nursing	26,832	0.82	3,682	0.90	13	0.85	30,527	0.83	
Corporate and other	13,358	0.87	3,763	0.95	11	0.83	17,132	0.88	
Allied and scientific	10,256	0.84	2,422	0.94	6	0.69	12,683	0.86	
Care and support	6,629	0.81	<2,175	0.88	<5	N/A	8,802	0.83	
SMO	2,424	0.82	<3,500	0.87	<5	N/A	5,921	0.85	
RMO	2,405	0.97	2,131	0.99	0	N/A	4,536	0.98	
Midwifery	1,388	0.71	<10	0.84	<5	N/A	1,395	0.71	
Total Staff	63,190	0.84	17,644	0.92	35	0.83	80,868	0.85	

Some values have been expressed as ranges to ensure anonymity of the small number of employees reported as another gender. Values in the Total Staff line are slightly lower than the sum of the Occupation Groups, as some individuals may be represented in more than one Occupation Group.

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EMPLOYEE COUNT 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 distinct count of employees for whom an ethnicity was reported. As some employees may have roles across multiple Occupation Groups, they may be counted more than once in the group totals, but only once in the Grand Total row in Table 4.

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

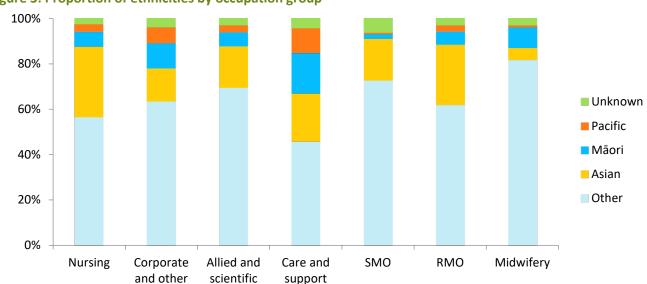


Figure 3: Proportion of ethnicities by occupation group

Table 4: Employee Count and proportion of ethnicities by occupation group

Occupation group	Oth	er*	Asi	an	Mä	iori	Pa	cific	Unkr	iown	Total
Nursing	17,285	56.6%	9,407	30.8%	2,008	6.6%	1,027	3.4%	800	2.6%	30,527
Corporate and other	10,885	63.5%	2,479	14.5%	1,908	11.1%	1,189	6.9%	671	3.9%	17,132
Allied and scientific	8,810	69.5%	2,296	18.1%	794	6.3%	393	3.1%	390	3.1%	12,683
Care and support	4,045	46.0%	1,865	21.2%	1,569	17.8%	947	10.8%	376	4.3%	8,802
SMO	4,302	72.7%	1,078	18.2%	127	2.1%	49	0.8%	365	6.2%	5,921
RMO	2,811	62.0%	1,194	26.3%	261	5.8%	129	2.8%	141	3.1%	4,536
Midwifery	1,138	81.6%	74	5.3%	125	9.0%	16	1.1%	42	3.0%	1,395
Grand Total	49,193	60.8%	18,370	22.7%	6,784	8.4%	3,742	4.6%	2,779	3.4%	80,868

^{* &#}x27;Other' is a group amalgamation of all ethnicities that do not fall into the groups Asian, Māori or Pacific.

Employee counts in the Grand Total line are slightly lower than the sum of the Occupation Groups, as some individuals may be represented in more than one Occupation Group.

This pie chart is based on the 78,089 permanent distinct 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 31 December 2021.

Figure 4: Proportion of identifiable ethnicities for all DHB employees

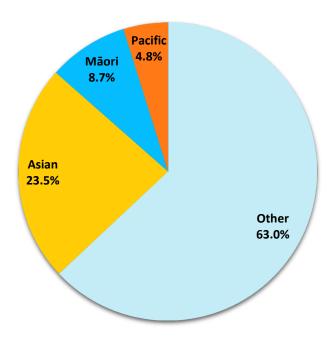
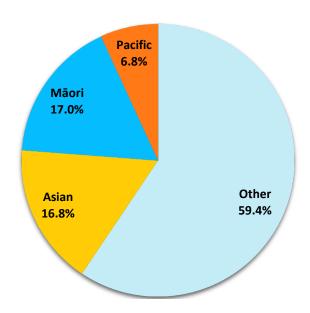


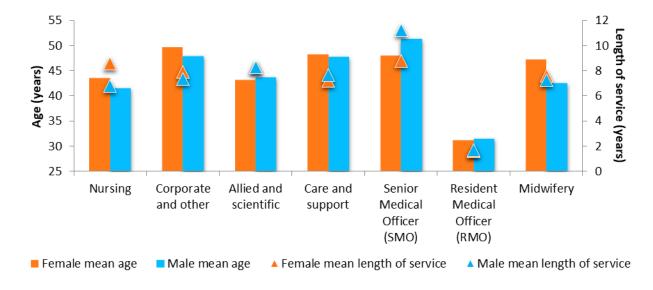
Figure 5: Proportion of identifiable ethnicities for projected population data at 31 December 2021



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

	Fem	ale	Ma	le	Tot	tal
Occupation group	Mean length of service Mean age		Mean length of service	Mean age		
Nursing	8.6	43.5	6.8	41.5	8.4	43.3
Corporate and other	7.9	49.7	7.3	47.9	7.8	49.3
Allied and scientific	8.3	43.2	8.2	43.7	8.3	43.3
Care and support	7.2	48.2	7.7	47.8	7.3	48.1
SMO	8.8	48.0	11.2	51.4	10.2	50.0
RMO	1.6	31.2	1.7	31.4	1.6	31.3
Midwifery	7.6	47.2	7.3	42.5	7.6	47.2
Grand Total	8.0	45.0	7.5	44.7	7.9	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.

EMPLOYEE COUNT AND MEAN FTE BY GENDER AND DHB

This chart examines the distinct count of employees by gender and DHB (left hand axis). The DHBs have been ordered in descending size of employee count. The right-hand axis refers to the mean FTE for all positions (by DHB and gender). The following table shows the employee count and mean FTE by gender for each DHB. Staff identified as Another Gender have not been included in these charts, due to the overall low numbers of people.

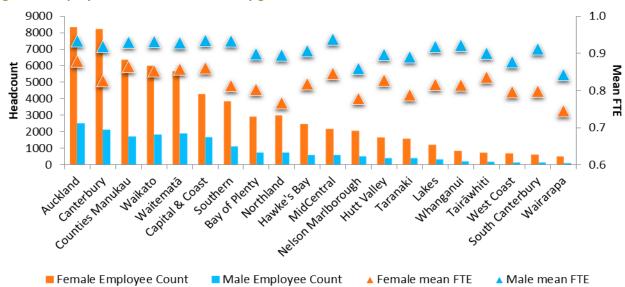


Figure 7: Employee Count and mean FTE by gender and DHB

Table 6: Employee Count and mean FTE by gender and DHB

		Auckland	Canterbury	Counties Manukau	Waikato	Waitematā	Capital & Coast	Southern	Northland	Bay of Plenty	Hawke's Bay	MidCentral	Nelson Marlborough	Hutt Valley	Taranaki	Lakes	Whanganui	Tairāwhiti	West Coast	South Canterbury	Wairarapa
Female	Employees	8,331	8,226	6,386	5,996	5,676	4,297	3,836	2,987	2,930	2,468	2,188	2,055	1,653	1,583	1,208	849	718	680	632	491
remaie	Mean FTE	0.88	0.83	0.86	0.85	0.86	0.86	0.81	0.77	0.80	0.82	0.85	0.78	0.83	0.79	0.82	0.81	0.84	0.80	0.80	0.75
Male	Employees	<2,460	2,084	1,704	1,802	1,883	<1,660	<1,085	740	714	570	595	524	406	383	313	<200	185	<150	119	90
IVIAIC	Mean FTE	0.93	0.92	0.93	0.93	0.93	0.93	0.93	0.90	0.90	0.91	0.94	0.86	0.90	0.89	0.92	0.92	0.90	0.88	0.91	0.84
Total	Employees	10,788	10,335	8,090	7,798	7,559	5,954	4,919	3,727	3,644	3,038	2,783	2,579	2,059	1,966	1,521	1,045	903	828	751	581
Total	Mean FTE	0.89	0.84	0.88	0.87	0.88	0.88	0.84	0.79	0.82	0.83	0.87	0.79	0.84	0.81	0.84	0.83	0.85	0.81	0.82	0.76

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. This has been calculated on an employee count basis, using the maximum reported length of service for each individual staff member across all relevant roles.

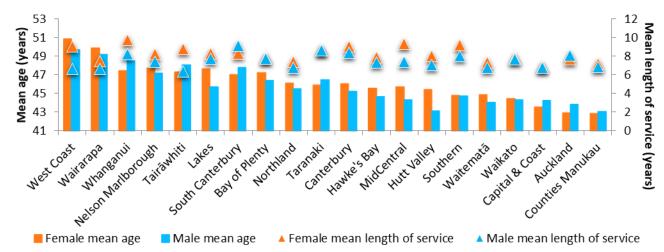


Figure 8: Mean ages and mean length of service by DHB and gender

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

DHB	Female	Female	Male mean	Male	All staff	All staff
	mean length of service	mean age	length of service	mean age	mean length of service	mean age
West Coast	9.0	50.8	6.6	49.7	8.6	50.6
Wairarapa	7.5	49.8	6.6	49.2	7.3	49.7
Whanganui	9.7	47.5	8.2	48.5	9.4	47.7
Nelson Marlborough	8.2	47.8	7.4	47.2	8.0	47.6
Tairāwhiti	8.8	47.3	6.4	48.0	8.3	47.5
Lakes	8.3	47.6	7.7	45.7	8.2	47.2
South Canterbury	8.3	47.0	9.1	47.8	8.4	47.1
Bay of Plenty	7.8	47.3	7.7	46.4	7.7	47.1
Northland	7.4	46.2	6.8	45.5	7.2	46.0
Taranaki	8.6	45.9	8.6	46.5	8.6	46.0
Canterbury	9.0	46.1	8.3	45.2	8.9	45.9
Hawke's Bay	7.9	45.6	7.3	44.7	7.8	45.4
MidCentral	9.3	45.7	7.4	44.4	8.9	45.4
Hutt Valley	8.0	45.4	7.0	43.1	7.8	45.0
Southern	9.1	44.8	8.0	44.8	8.9	44.8
Waitematā	7.3	44.9	6.8	44.1	7.1	44.7
Waikato	7.8	44.5	7.6	44.3	7.8	44.4
Capital & Coast	6.8	43.6	6.7	44.3	6.8	43.8
Auckland	7.6	42.9	8.1	43.8	7.7	43.1
Counties Manukau	7.1	42.9	6.8	43.1	7.1	42.9
Grand Total	8.0	45.0	7.5	44.7	7.9	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.

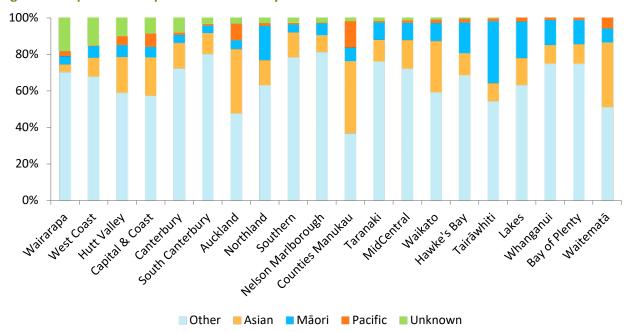


Figure 9: Proportion of reported ethnicities by DHB

Table 8: Distribution of reported ethnicities by DHB and Employee Count

DHB	Other*	Asian	Māori	Pacific	Unknown	Total
Wairarapa	409	25	<30***	<20***	105	581
West Coast	562	86	<60***	<5**	124	828
Hutt Valley	1,216	404	135	101	203	2,059
Capital & Coast	3,423	1,244	353	421	513	5,954
Canterbury	7,473	1,441	460	140	821	10,335
South Canterbury	602	85	32	7	25	751
Auckland	5,162	3,781	528	972	345	10,788
Northland	2,355	516	688	55	113	3,727
Southern	3,856	666	216	42	139	4,919
Nelson Marlborough	2,096	234	167	15	67	2,579
Counties Manukau	2,997	3,189	602	1,156	146	8,090
Taranaki	1,496	232	186	18	34	1,966
MidCentral	2,007	438	260	39	39	2,783
Waikato	4,624	2,180	767	145	82	7,798
Hawke's Bay	2,082	371	506	59	20	3,038
Tairāwhiti	492	91	303	<20***	<5**	903
Lakes	962	226	300	33	0	1,521
Whanganui	783	106	142	14	0	1,045
Bay of Plenty	2,728	389	477	50	0	3,644
Waitematā	3,868	2,666	582	443	0	7,559
Grand Total	49,193	18,370	6,784	3,742	2,779	81,940

st '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)

^{***} Data anonymised as range to protect data suppression in other fields.

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 close 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. Length of service is based on reported time employed in the current position, so if an employee is reported with multiple positions, this metric picks up the maximum length of service across their positions.

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	8.7	11.1	9.2	10.1	1.3	12.1	9.4
Canterbury	9.6	7.8	9.6	9.3	11.4	2.6	9.9	8.9
MidCentral	10.1	8.7	8.8	7.5	10.4	1.7	8.7	8.9
Southern	10.0	8.8	8.8	7.2	10.7	2.7	8.2	8.9
Taranaki	9.5	9.0	8.8	8.1	8.2	1.7	8.0	8.6
West Coast	9.6	6.5	9.8	10.6	5.7	1.7	6.9	8.6
South Canterbury	9.0	8.6	8.3	8.6	8.0	1.1	5.4	8.4
Tairāwhiti	10.1	7.2	7.9	7.5	8.3	1.4	5.2	8.3
Lakes	9.2	8.6	8.4	6.1	8.6	1.7	7.3	8.2
Nelson Marlborough	9.4	7.1	7.9	7.7	10.0	1.4	7.3	8.0
Hutt Valley	8.4	8.7	7.7	8.5	9.2	0.9	7.1	7.8
Hawke's Bay	8.2	8.0	8.4	7.0	9.8	1.9	8.5	7.8
Waikato	8.2	8.2	8.3	6.7	10.0	2.4	6.9	7.8
Bay of Plenty	9.0	7.4	7.4	6.7	9.2	1.9	7.6	7.7
Auckland	7.6	7.8	8.1	7.8	10.9	1.0	7.4	7.7
Northland	7.7	8.1	8.3	4.8	8.5	1.5	7.1	7.2
Wairarapa	8.6	5.5	8.9	7.3	7.9	0.2	3.5	7.3
Waitematā	7.2	6.9	8.1	6.8	10.1	0.9	6.5	7.1
Counties Manukau	7.0	7.9	7.2	6.6	10.5	0.9	7.8	7.1
Capital & Coast	7.1	6.4	6.8	7.1	10.3	1.4	7.7	6.8
Grand Total	8.4	7.8	8.3	7.3	10.2	1.6	7.6	7.9

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 Southern shows that (if the December quarter is indicative) 50% of staff would have taken 36 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 94.0 hours or less of sick leave per FTE over the course of a year.

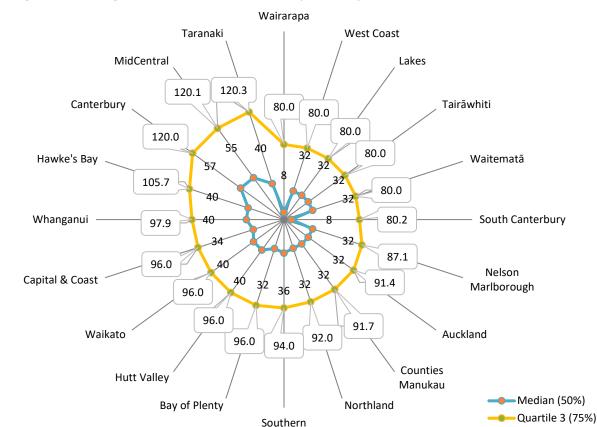


Figure 10: Average annualised sick leave hours per FTE by DHB

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

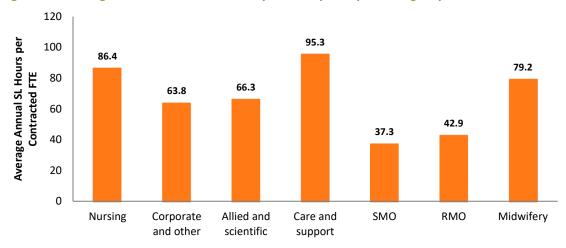


Figure 12: Average annual sick leave hours per FTE by age group by gender

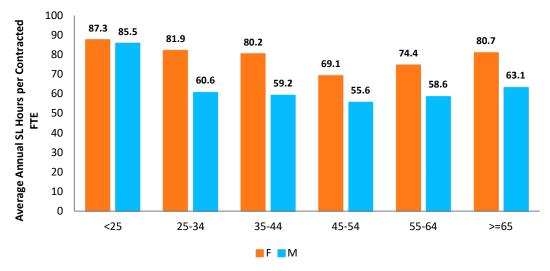
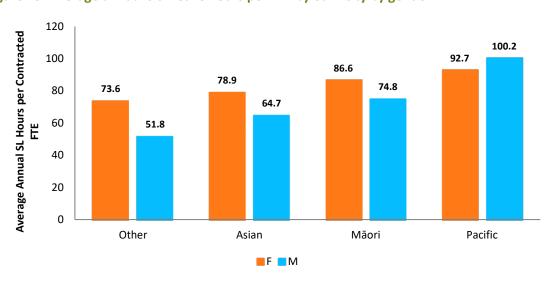


Figure 13: Average annual sick leave hours per FTE by ethnicity by gender



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 fifteen 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).

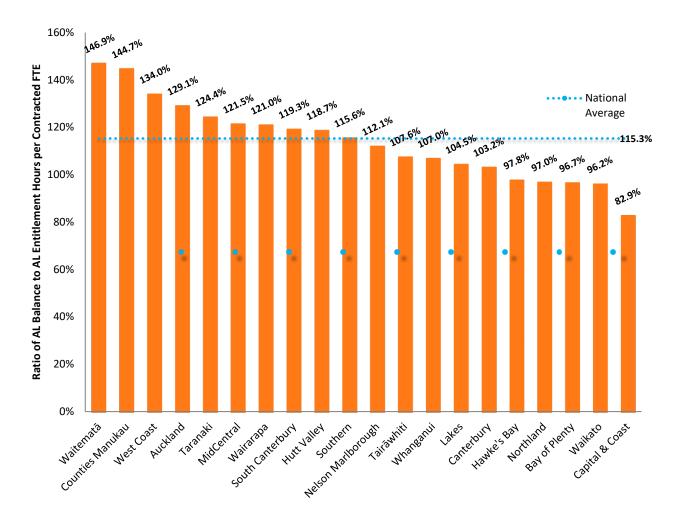


Figure 14: Ratio of annual leave balance to annual leave entitlement hours per FTE by DHB

NOTE: There is an issue with Auckland DHB's reported Annual Leave data this quarter which may slightly reduce their Annual Leave Balance to Entitlement ratio.

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

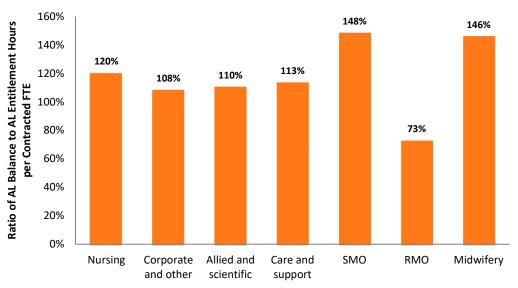
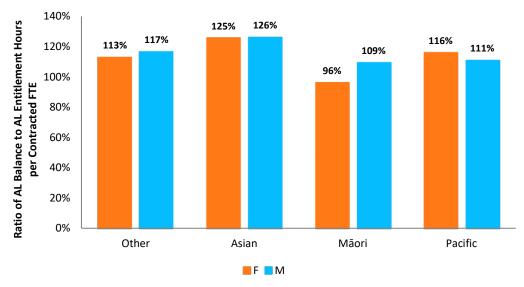


Figure 16: Ratio of annual leave balance to annual leave entitlement hours per FTE by ethnicity by gender

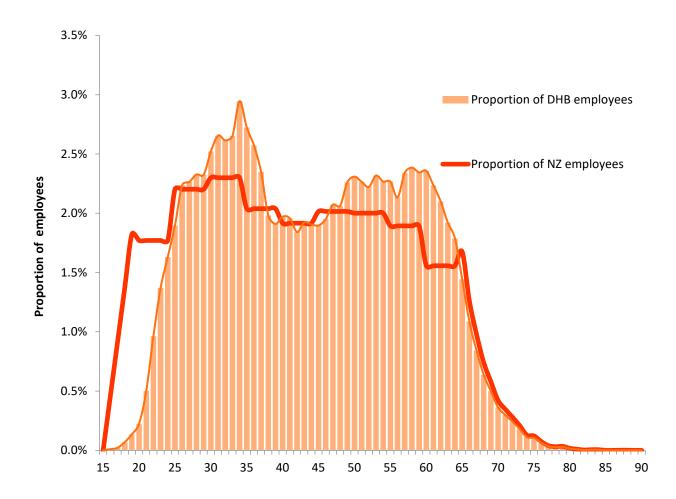


ANALYSIS BY POPULATION

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 DHB employee distribution is on a position basis. The staggered dark orange line is the distribution of all New Zealand employees for the December 2021 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

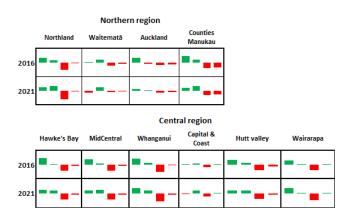
The following charts look at the ethnic representation of DHB staff to the resident population.

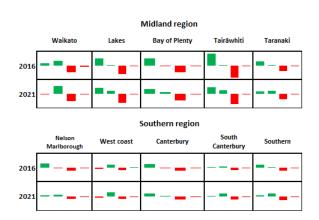
The calculations look at the percentage of staff with a known ethnicity and compare it to the percentage of DHB residents with a known ethnicity. This latter data has been interpolated from data produced by Statistics New Zealand and is representative for the quarter being reported on. The proportion of staff with a known ethnicity this quarter was 96.6 percent, compared to 90.8 percent in December 2016. This comparison is on a position count level, as we do not have comparable distinct employee counts for 2016.

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 +25% - so comparisons between DHBs are possible. The data for 2016 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 West Coast has fewer than five employees who have identified their ethnicity as Pacific. 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 Waitematā. Nationally, the distributions have changed only slightly between 2016 and 2021; the 'Other' ethnicities have reduced closer to zero (from eight down to four percentage points difference), whereas Māori and Pacific have less under-representation (from negative nine to negative eight, and negative three to negative two, percentage points difference, respectively).

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.

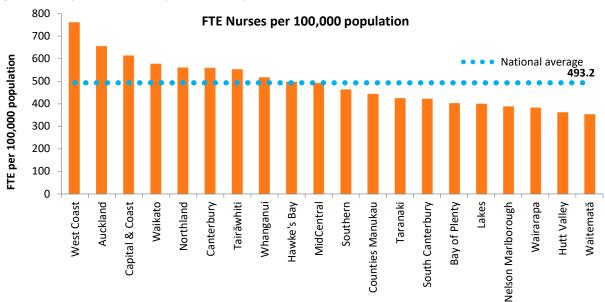


Figure 18: Population density of Nurses by DHB



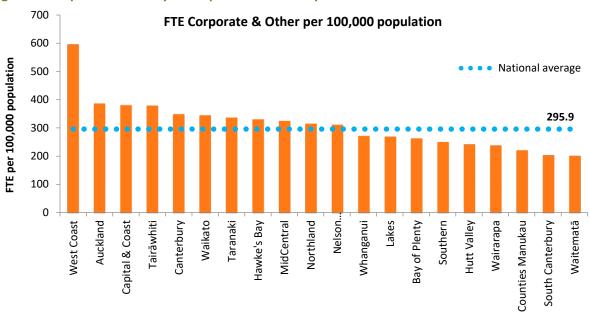


Figure 20: Population density of Allied & Scientific by DHB

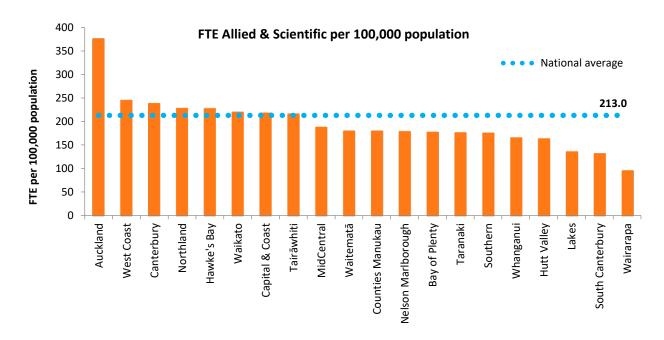


Figure 21: Population density of Care & Support by DHB

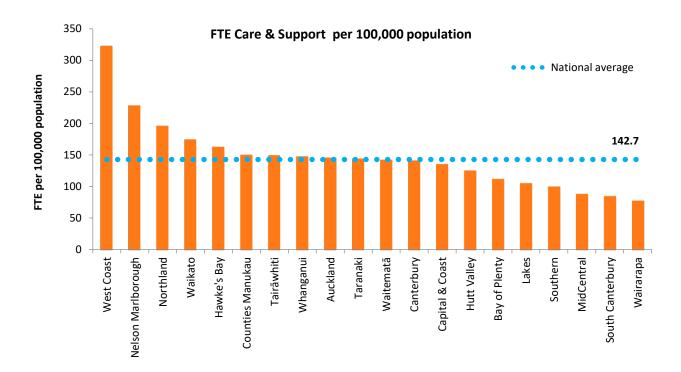


Figure 22: Population density of Senior Medical Officer (SMO) by DHB

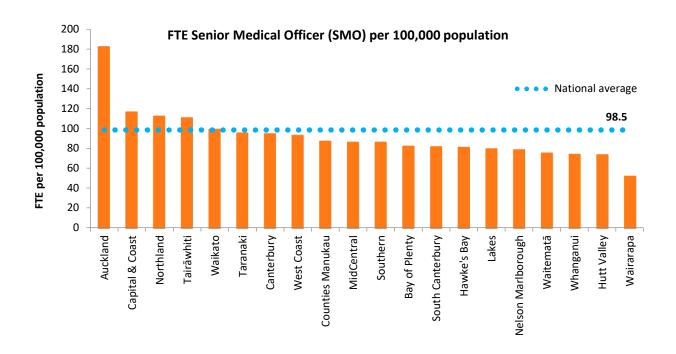


Figure 23: Population density of Resident Medical Officer (RMO) by DHB

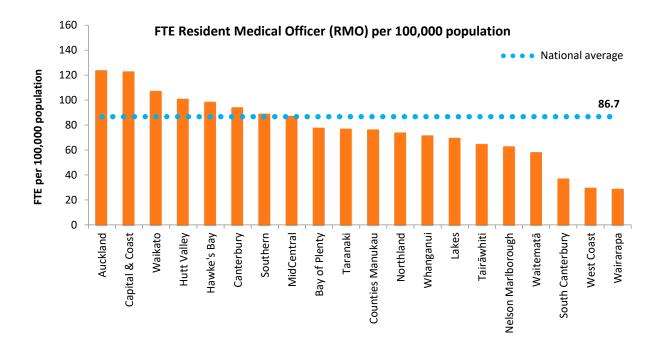


Figure 24: Population density of Midwives by DHB

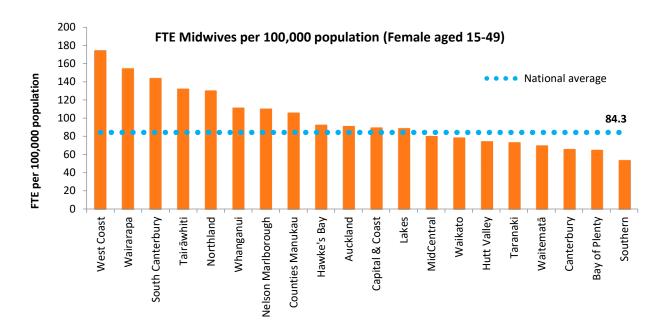


Figure 25: Population density of all DHB staff by DHB

