

Centre for
Public Health
Research



Health Needs Assessment

Waikato District Health Board

For the Ministry of Health

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Health Needs Assessment

Waikato District Health Board

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Citation: Marsters H, Shanthakumar M, Fyfe C, Borman B, Dayal S. 2012. Health Needs Assessment, Waikato District Health Board. Report for the Ministry of Health. Wellington: Massey University.

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EXECUTIVE SUMMARY

The report identifies the unmet health and healthcare needs of the Waikato District Health Board (DHB) population by comparing the health status of Māori and non-Māori. The information contained in the report has been designed to assist the Waikato DHB in determining priorities for its planning and decision-making to achieve health gain in its population.

Demographics and social determinants of health

In the 2006 Census, Waikato DHB had a population of 350,220 which is predicted to increase to 402,110 by 2026. The percentage increase will be less than that for New Zealand as a whole. The proportion of people identifying themselves as Māori in Waikato DHB is higher than that of New Zealand as a whole. The Māori population in Waikato DHB is much younger than the non-Māori population and is dominated by young people. This trend is expected continue over the period to 2026, whilst the non-Māori population is predicted to age over the same period.

In Waikato DHB, the distribution of communities across the NZDep06 deprivation scale increases gradually with levels of deprivation, up to decile 8, then decreases. Whilst distribution across the deprivation scale is relatively even for non-Māori, Māori representation increases steadily as levels of deprivation increase.

Health status

Avoidable mortality and hospitalisations

The overall avoidable mortality rate for Māori was significantly higher than that for non-Māori.

Ischaemic heart disease, motor vehicle accidents and lung cancer were the leading causes of avoidable mortality for both Māori and non-Māori in the Waikato DHB. In addition, diabetes and chronic obstructive pulmonary disease (COPD) were other major causes of mortality for Māori, as were colorectal cancer and suicide for non-Māori.

The rate of avoidable hospitalisations for Māori was statistically significantly higher than the comparable non-Māori rate.

For Māori and non-Māori in the Waikato DHB, major causes of avoidable hospitalisations were similar: respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina.

Child and youth health

The leading causes of hospitalisations for children aged 0-4 years were similar for Māori and non-Māori: respiratory infections, ¹persons encountering health services in other circumstances, ENT infections, and disorders related to length of gestation and fetal growth.

For both Māori and non-Māori children aged 5-14 years, major causes of hospitalisations were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections.

Older people

Ischaemic heart disease, lung cancer, stroke and COPD were four of the five leading causes of death for both Māori and non-Māori aged 65+ years.

There were distinct differences between Māori and non-Māori in the pattern of leading causes of hospitalisation for those aged 65+ years. COPD, diabetes, and congestive heart failure were the leading causes for Māori, compared to angina, disorders of lens, and skin cancers for non-Māori.

Other conditions

The ischaemic heart disease mortality rate for Māori was statistically significantly higher than the non-Māori rate.

The hospital admission rate for all cardiovascular disease and stroke for overall Māori and Māori women were statistically significantly higher than their non-Māori counterparts.

The COPD hospitalisation rate for Māori was statistically significantly higher than the non-Māori rate.

The cancer specific rates for lung cancer mortality, hospitalisation, and registration were statistically significantly higher for Māori than non-Māori.

The hospital admission and cancer registration rates for melanoma were statistically significantly lower for Māori than non-Māori.

The rates of hospital admissions due to diabetes and renal failure were statistically significantly higher for Māori than non-Māori.

The hospitalisation rate for asthma was significantly higher for Māori than non-Māori. Māori children 15-24 years hospitalised for asthma also had a statistically significantly higher rate compared to non-Māori.

¹ Persons encountering health services in other circumstances (Z70-Z76) - Health supervision and care of other healthy infant and child.

Health service utilisation

In the Waikato DHB, 64.3 percent of Māori children had received all specified immunisation vaccines by the age of two, compared to 77.5 percent of non-Māori children. The coverage rates for both ethnic groups were lower than the New Zealand averages.

Among Māori people aged 65 years and over, 49.2 percent either received an influenza vaccine, or had an agreement made by a primary health provider to receive an influenza vaccine in the past 12 months, which is lower than the national Māori rate of 54.4 percent. In comparison, the non-Māori rate was 55.4 percent, also lower than the national non-Māori average (60.9%).

Of Māori women in the Waikato DHB aged 50-64 years, 41.9 percent had a mammogram to check for early signs of breast cancer in the past two years, which was lower than the Māori national percentage (51.5%). In comparison, the non-Māori rate was 59.5 percent, also lower than the national non-Māori average (65.0%).

Of Māori women aged 20 to 69 years in the Waikato DHB who had a primary health care provider, 54.9 percent had a cervical smear in the past three years, which was similar to the overall national rate for Māori women (54.4%). The rate for non-Māori women (85.0%) was however higher than the comparable national rate (75.5%).

INTRODUCTION

A health needs assessment (HNA) is an analysis of a population's demand and need for health services. Health needs assessments can help create a picture of the health status of District Health Board (DHB) population at a given time.

The current HNA compares the health status between Māori and non-Māori by providing a descriptive analysis of the data, with the statistical information accessible in an easy-to-use format. The most recent data available are presented for each indicator. The report, along with the full suite of data tables that sit behind the figures and text, will be available on CPHROnline (<http://cphronline.massey.ac.nz/>). This is an interactive website which displays a wide range of downloadable public health data in tabular, graph and map formats. CPHROnline also has the capacity to display time trends by DHBs on major health risk factors, behaviours and conditions.

It is intended that this profile of Māori and non-Māori health will provide the basis for a continuous updating of the data on CPHROnline as new data becomes available from the national health data sets (i.e. mortality, hospitalisations, and cancer registrations).

In this HNA, information is presented about the Waikato DHB on:

1. Demographic characteristics.
2. Socioeconomic characteristics.
3. The health status, such as rates of cancer, and diabetes.
4. Health service utilisation

The findings of the HNA are summarised in the executive summary, together with key points at the beginning of each chapter. It is anticipated that the information in the report will provide robust, high quality evidence for policy development and decision making across the health sector. It will enable decision makers to lead and manage effectively by being able to respond quickly to a population's health needs and emerging issues of their respective DHB.

METHODS AND DATA SOURCES

Data Notes

In the report, information is presented on the most recently available data from a variety of sources (Table 1).

Table 1: Data sources for numerators

Source	Data	Period	Type of data
Ministry of Health	Mortality collection data set- mortality	2006-2008	National collection
	National Minimum Data Set (NMDS)- hospitalisations	2007-2009	National collection
	New Zealand Cancer Registrations (NZCR)- cancer registrations	2005-2007	National collection
Statistics New Zealand	Demographics Population	2006	Census
	projections	2006-2026	Official Estimates
	Socioeconomic indicators	2006	Census
District Health Board New Zealand (DHBNZ)	Vaccinations	2009-2010	Primary care
	Breast Cancer Screening	2009-2010	Primary care
	Cervical Cancer Screening	2009-2010	Primary care

Identifying the Years of Data Collection

In this report '2006-08' denotes three full calendar years of data for mortality, cancer registrations '2005-07', and hospitalisation data are for years '2007-09'.

National Collections

The Ministry of Health has operational responsibility for national collections of health and disability information which include the mortality collections, national minimum data set (NMDS), and the New Zealand Cancer Registry (NZCR). National collections and systems provide valuable health information to support decision-making in policy development, funding and the point of care. Further information about the national systems can be obtained from the website:

<http://www.health.govt.nz/nz-health-statistics/national-collections-and-surveys/collections>

Disease Classification

The International Classification of Disease Australian Modification, 10th revision (ICD-10-AM) has been used to identify diseases/conditions for reporting mortality, hospitalisations and cancer registrations (refer to Appendix 5 for a full list of ICD-10-AM codes).

Ethnicity Classification

Ethnicity data are presented in two ways; 'total response' and 'prioritised'. In 'total response', a respondent is counted in each of the ethnic groups they selected. This means that the sum of the ethnic group population will exceed the total population because people can select more than one ethnic group.

In the 'prioritised' method, each respondent is allocated to a single ethnic group using the priority system (Māori > Pacific peoples > Asian > European/Other). For example a person who selects (when asked their ethnicity) both Māori and European would only be included in the Māori grouping.

Prioritised ethnicity classifies a person as Māori if any one of their recorded ethnicities was Māori. So for Māori, prioritised and total response outputs are the same. All other people were recorded as non-Māori and represent a comparative or reference group.

Denominators

Population information was obtained from Statistics New Zealand. In general the denominators used for calculating the rates were derived from 2006 Census population data. Any other denominators used are indicated in the tables.

Rates

Rates are calculated as the proportion of the population associated with the indicator compared with the total population of interest. Rates are expressed per 100 (percent), per 1000, per 10,000 or per 100,000. Age-specific rates are shown for defined age groups.

In this report, rates have not been calculated for counts less than 5. These have been presented as 0.0 in this report.

Age-standardised Rates (ASRs)

Where appropriate and indicated in the tables, rates have been age-standardised to enable comparison between population groups with different age structures. The standard population used was the 2001 Census Māori population (males and females combined) using five-year age groups up to 84, then 85+. Use of a Māori population standard creates rates that are a close approximation of the crude overall rates for Māori and thus better reflect the experience of the Māori population.

Confidence Intervals

In the report, 95% confidence intervals for the rates are presented, where appropriate. The confidence interval gives an indication of the margin of error associated with the rate estimates. When the 95% confidence intervals of two rates do not overlap, the difference in rates between the groups is said to be statistically significant with 95% confidence.

Larger populations and more common conditions usually have narrower confidence intervals and so have a greater likelihood of achieving a statistically significant difference than results with smaller numbers.

Certain cells within the mortality, hospitalisation, and cancer registration tables (see Appendices 2-4) have been shaded to indicate whether the age-standardised rates (ASR) between two groups are statistically significant. The two comparisons being made are:

Māori ASR compared to non-Māori ASR within District Health Board:

Māori ASR statistically significantly higher than non-Māori ASR

Māori ASR statistically significantly lower than non-Māori ASR

District Health Board ASR compared to New Zealand ASR:

DHB ASR statistically significantly higher than national ASR

DHB ASR statistically significantly lower than national ASR

Ranking of Leading Causes

Ranking the leading causes of mortality and hospitalisations indicates the most frequently occurring causes of death or hospitalisation by using the ASR as the ranking criterion.

How to interpret tables in this report

The blue shades highlights differences between Māori and non-Māori within the District Health Board

The red/pink shades highlights differences between the District Health Board and New Zealand

Explains what the table is about, and that the data is age-standardised

Age-standardised Rate for the female Māori population in the DHB

The 95 percent confidence interval of the age-standardised rate – and indicator of margin of error

Table 2.1.17: Ischaemic heart disease mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
DHB	Female	863.7	749.8 - 977.7	536.3	521.5 - 551.0	541.1	526.6 - 555.6
	Male	550.1	463.9 - 636.3	718.4	698.2 - 738.6	721.0	701.3 - 740.8
	Total	919.1	824.6 - 1013.7	622.3	610.1 - 634.5	626.8	614.9 - 638.8
New Zealand	Female	893.9	878.3 - 909.5	394.7	392.6 - 396.7	422.3	420.2 - 424.4
	Male	1416.1	1393.1 - 1439.1	728.8	725.4 - 732.2	765.7	762.3 - 769.1
	Total	1123.8	1110.5 - 1137.0	545.4	543.5 - 547.3	577.2	575.2 - 579.1

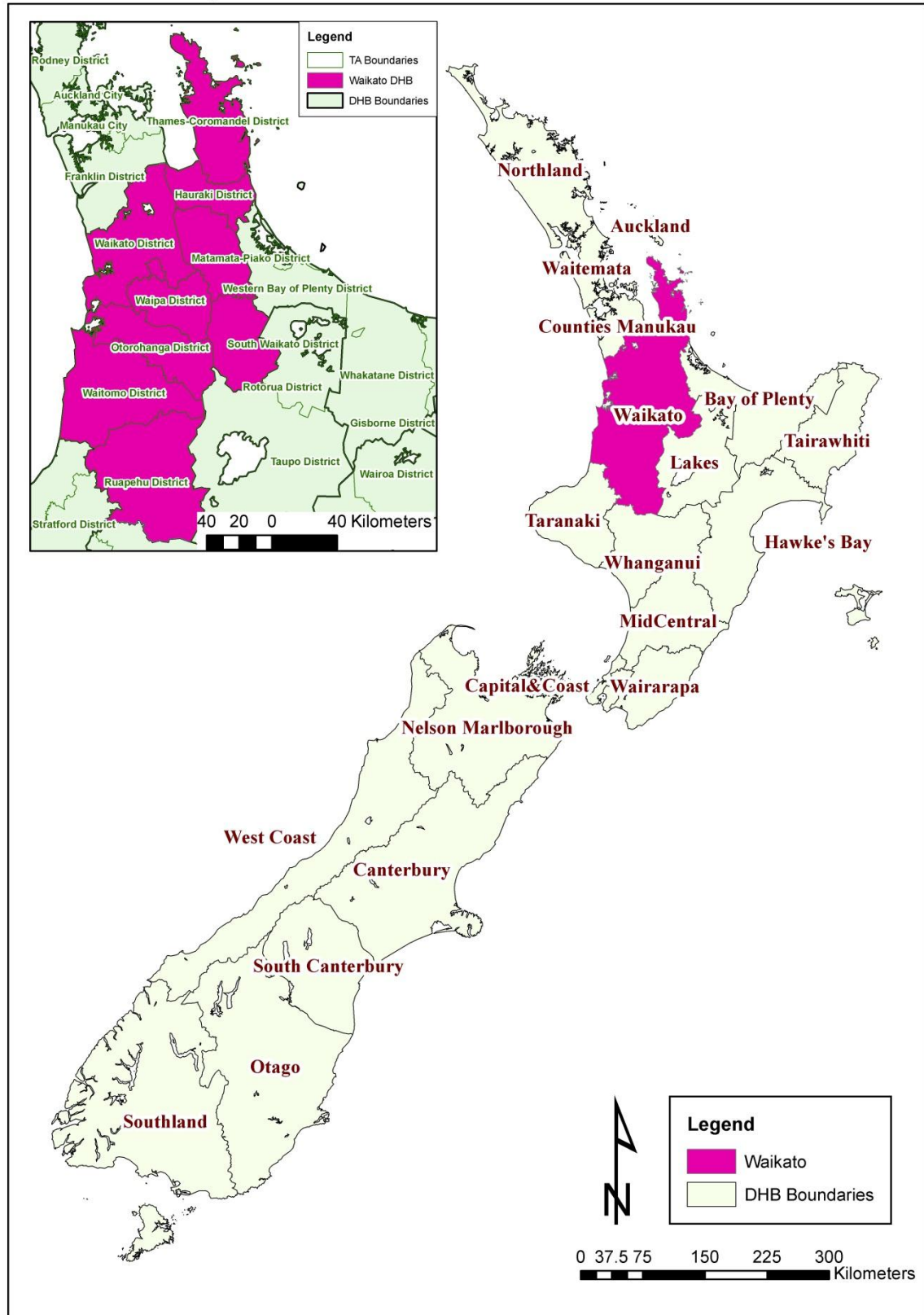
The dark blue shows that the ASR for the total Māori population in the DHB (919.1 per 100,000) is statistically significantly higher than the ASR for the total non-Māori population in the DHB (622.3 per 100,000)

The light blue shows that the ASR for the male Māori population in the DHB (550.1 per 100,000) is statistically significantly lower than the ASR for the male non-Māori population in the DHB (718.4 per 100,000)

The red shows that the ASR for the total population in the DHB (626.8 per 100,000) is statistically significantly higher than the ASR for the total population in NZ (577.2 per 100,000)

The pink shows that the ASR for the total male population in the DHB (721.0 per 100,000) is statistically significantly lower than the ASR for the total male population in NZ (765.7 per 100,000)

Map of New Zealand District Health Boards



1 THE POPULATION

Waikato DHB had a population of 350,220 at the last (2006) census, making up approximately 8.4 percent of the total New Zealand population (4,184,580 at the last census). This population is projected to rise to 402,110 by 2026, an increase of 14.8 percent. The New Zealand population is predicted to rise by 19.2 percent over the same period.

1.1 Ethnicity

The proportion of people identifying themselves as Māori in Waikato DHB is greater than that of New Zealand as a whole, (20.6% compared to 14.6%). This represents 11.6 percent of the New Zealand Māori population (2006 Census).

1.2 Population Distribution by Age and Gender

The majority of the Waikato DHB population (64.9%) are of working age (15-64 years), this makes up a slightly lower proportion of the population compared to New Zealand as a whole (66.5%), (Table 1.1). There are slightly more young people (aged 0-14 years) and elderly (aged 65+ years) in the Waikato DHB when compared to the New Zealand population. The Waikato DHB has a large (young) base population which peaks at 10-14 and a similar sized middle aged population, creating a secondary peak at 40-44 years, (Figure 1).

Table 1.1: Percentage population, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base Population)			2026 (Projected Population)		
		Male	Female	Total	Male	Female	Total
Waikato	0-14	23.5	21.6	22.5	20.5	19.0	19.7
	15-64	64.8	65.0	64.9	60.9	60.2	60.5
	65+	11.7	13.4	12.6	18.6	20.8	19.7
New Zealand	0-14	22.2	20.3	21.2	19.4	17.9	18.6
	15-64	66.6	66.5	66.5	62.7	62.2	62.5
	65+	11.2	13.2	12.2	17.9	19.9	18.9

Table 1.2: Population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	0-14	40340	38490	78840	40700	38640	79340	0.9	0.4	0.6
	15-64	111400	116030	227420	120860	122540	243400	8.5	5.6	7.0
	65+	20070	23900	43960	36950	42450	79370	84.1	77.6	80.6
	Total	171810	178420	350220	198510	203630	402110	15.5	14.1	14.8
New Zealand	0-14	454960	433360	888310	477070	451780	928840	4.9	4.3	4.6
	15-64	1364450	1420210	2784650	1545220	1573770	3119010	13.2	10.8	12.0
	65+	228930	282690	511620	440280	503800	944080	92.3	78.2	84.5
	Total	2048340	2136260	4184580	2462570	2529350	4991930	20.2	18.4	19.3

It is projected that by 2026, the proportion of the population in the 65+ age group will have increased by 80.6 percent in Waikato DHB, a little less than the 84.5 percent predicted nationally. Populations of both young people and those of working age are predicted to increase modestly, (by 0.6% and 7.0% respectively). Trends for the rest of New Zealand are also for small increases in these two age groups (of 4.6% and 12.0% respectively). The population is predicted to become more evenly distributed over the years to 2026, with the peak population increasing to 15-19 years and two further peaks occurring at 30-34 years and 60-64 years.

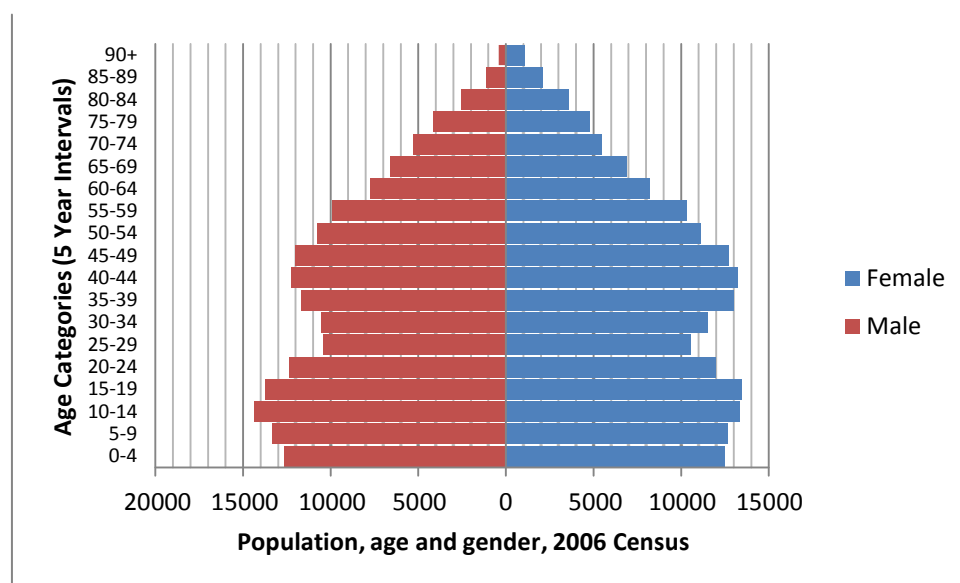
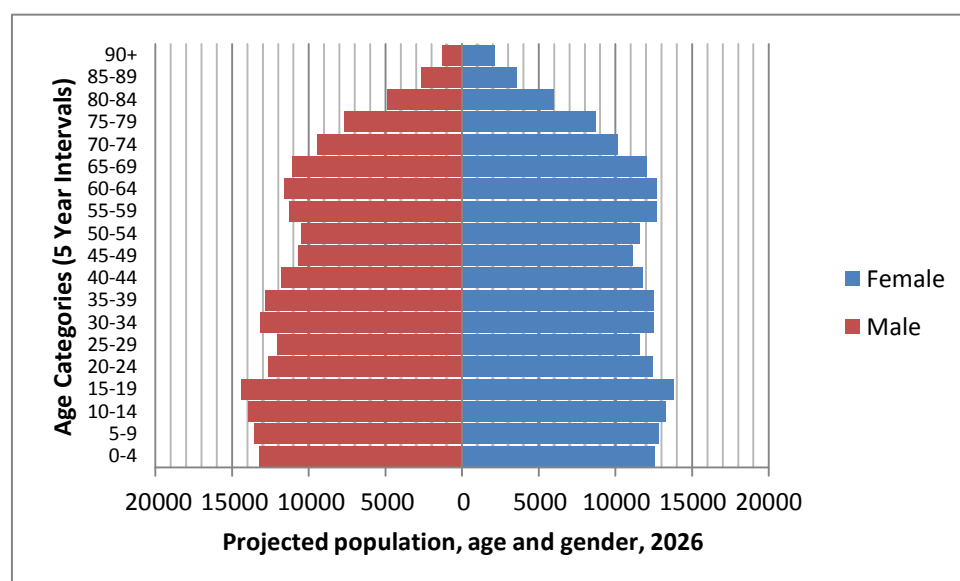
Figure 1: Population, age and gender, 2006 Census

Figure 2: Projected population, age and gender, 2026



1.3 Population Distribution by Ethnicity

The Waikato Māori population is younger than the non-Māori population. The Māori population is dominated by young people, with peak population occurring at 0-4 years. By comparison the non-Māori population peaks at 40-49 years (a smaller, secondary, peak occurs at 10-14 years).

Figure 3: Māori population, age and gender, 2006 Census

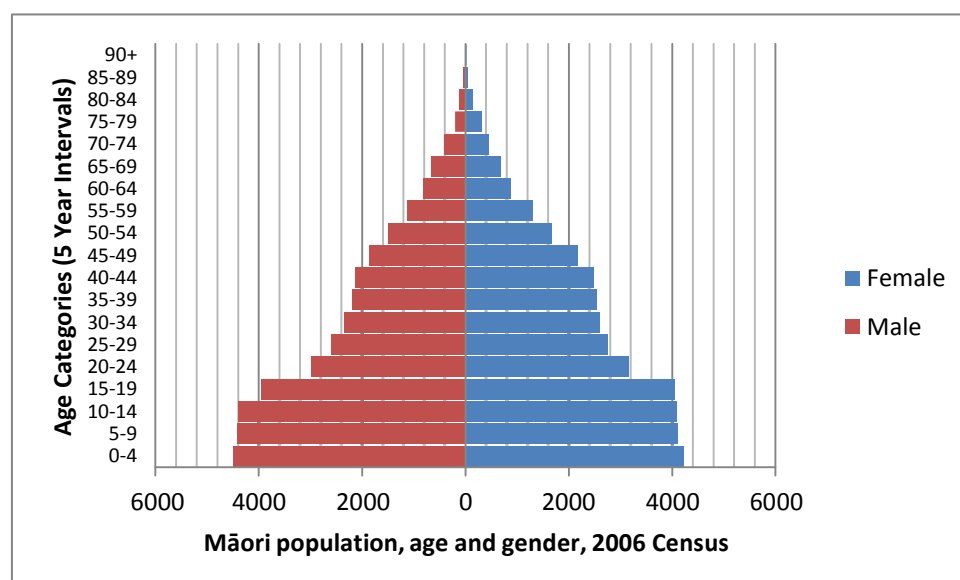
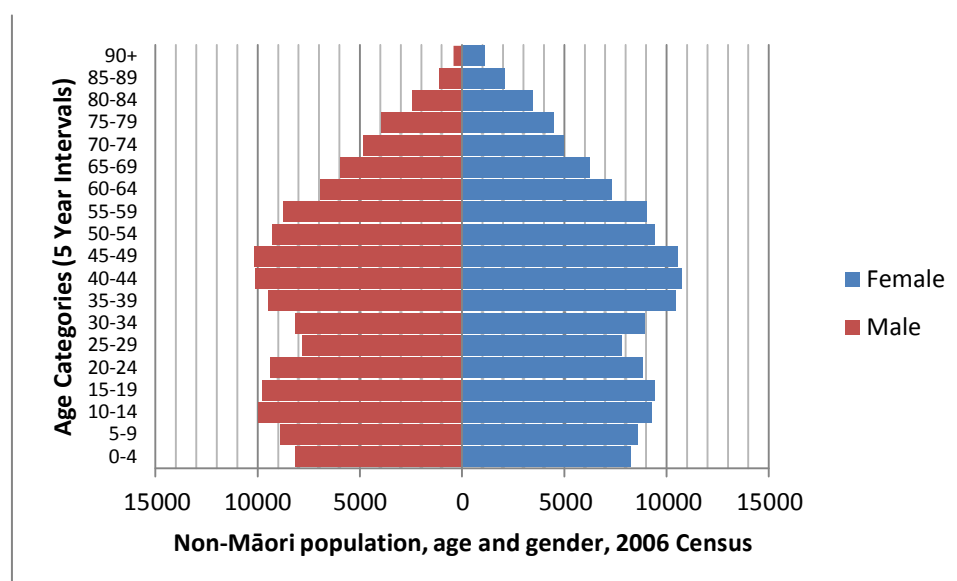


Figure 4: Non-Māori population, age and gender, 2006 Census



Over the period 2006-2026, the young (0-14 years) and working age (15-64 years) Māori populations are predicted to increase (by 18.5% and 30.7% respectively). The young non-Māori population is predicted to decrease by 11.6 percent over the same period, whilst the proportion of non-Māori of working age is predicted to increase by a more modest 2.2 percent. The greatest population increases occur in the elderly population for both Māori (182.3%) and non-Māori (76.3%).

Whilst young people are expected to continue to dominate the Māori population (peak age 0-4 years), it is predicted to become more evenly distributed. The non-Māori population ages, with peak population increasing to 60-64 years and additional, secondary, peaks at 15-19 and 30-39 years.

Table 1.3: Māori population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	0-14	16350	15630	31990	19460	18460	37920	19.0	18.1	18.5
	15-64	18240	20260	38480	24350	25930	50280	33.5	28.0	30.7
	65+	760	990	1750	2140	2810	4940	181.6	183.8	182.3
	Total	35350	36880	72220	45950	47200	93140	30.0	28.0	29.0
New Zealand	0-14	110480	104810	215310	132290	125860	258150	19.7	20.1	19.9
	15-64	183640	199700	383320	236750	246600	483350	28.9	23.5	26.1
	65+	11680	14010	25710	30830	38330	69150	164.0	173.6	169.0
	Total	305800	318520	624340	399870	410790	810650	30.8	29.0	29.8

Table 1.4: Non-Māori population change, age and gender, 2006 Census, 2026

Location	Age Group	2006(Base)			2026			Percentage increase 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	0-14	23990	22860	46850	21240	20180	41420	-11.5	-11.7	-11.6
	15-64	93160	95770	188940	96510	96610	193120	3.6	0.9	2.2
	65+	19310	22910	42210	34810	39640	74430	80.3	73.0	76.3
	Total	136460	141540	278000	152560	156430	308970	11.8	10.5	11.1
New Zealand	0-14	344480	328550	673000	344780	325920	670690	0.1	-0.8	-0.3
	15-64	1180810	1220510	2401330	1308470	1327170	2635660	10.8	8.7	9.8
	65+	217250	268680	485910	409450	465470	874930	88.5	73.2	80.1
	Total	1742540	1817740	3560240	2062700	2118560	4181280	18.4	16.5	17.4

Figure 5: Projected Māori population, age and gender, 2026

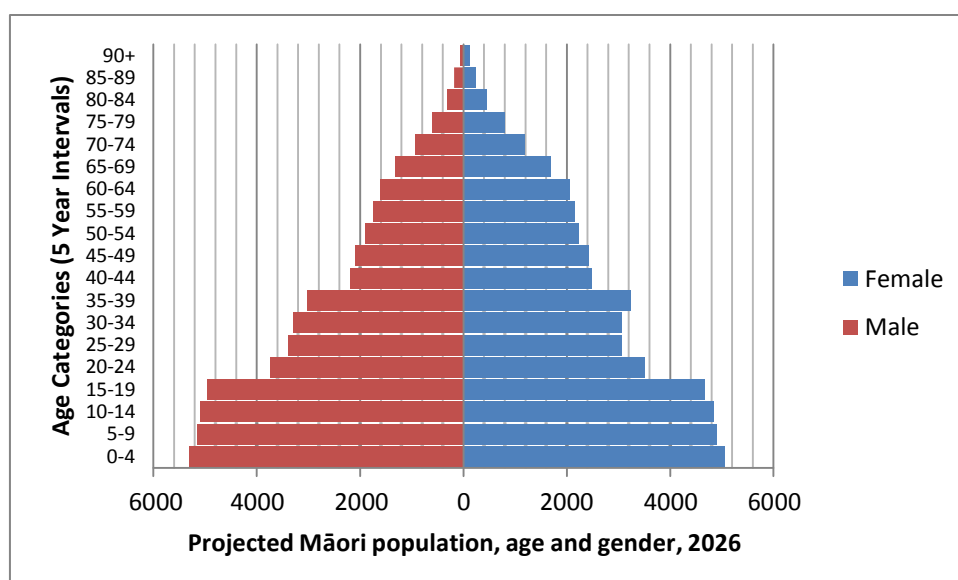
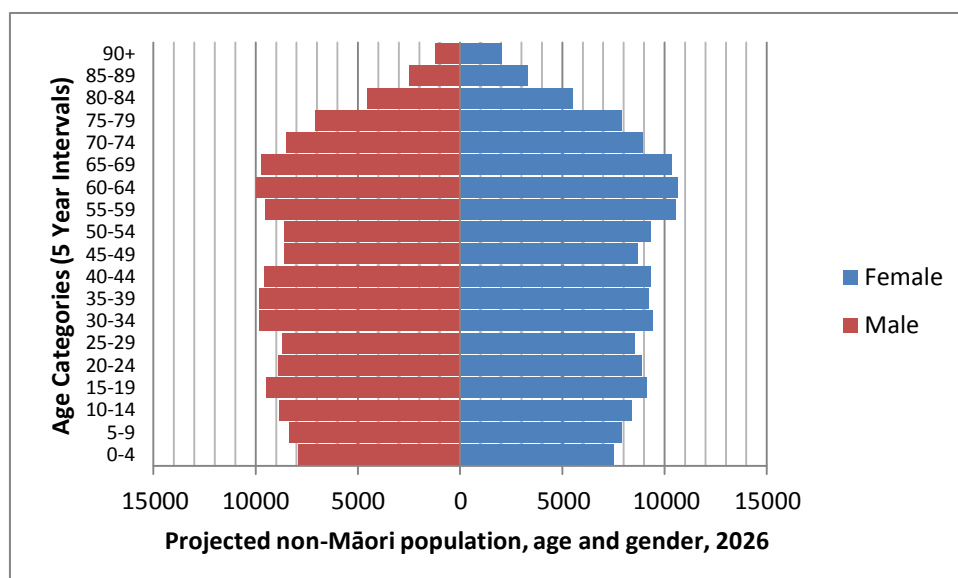


Figure 6: Projected non-Māori population, age and gender, 2026



2 SOCIAL DETERMINANTS OF HEALTH

The World Health Organisation defines the social determinants of health as:

“..The circumstances, in which people are born, grow up, live, work and age, and the systems put in place to deal with illness. These circumstances are in turn shaped by a wider set of forces: economics, social policies, and politics”, (World Health Organisation, 2008).

The following section examines social and economic determinants of health through the New Zealand Index of Deprivation and through some of the individual indicators used to determine ‘deprivation’ in New Zealand.

2.1 The New Zealand Index of Deprivation (NZDep06)

The New Zealand Index of Deprivation (NZDep06) provides a numerical rating of socio economic status by small area unit. This is based on nine indicators taken from the 2006 Census and across eight dimensions of deprivation. The numerical scale is divided into population deciles with 1 representing the least deprived and 10 representing the most deprived, (Salmond, Crampton, & Atkinson, 2007).

In Waikato DHB the distribution of communities across the NZDep06 deprivation scale increases gradually with levels of deprivation, up to deciles 7 and 8, then decreases. Whilst the non-Māori population is relatively evenly distributed across the deciles, representation of Māori increases as the level of deprivation increase. The pattern for Māori is very similar to that seen nationally.

Figure 7: Distribution of Waikato DHB Area Units across NZDep06 Decile Groups, 2006 Census

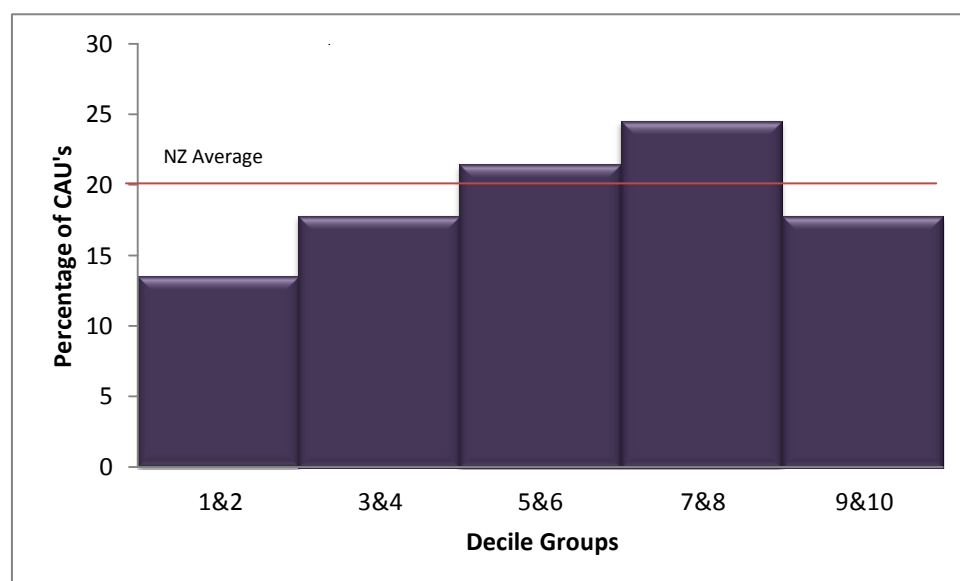


Figure 8: Waikato DHB population, ethnicity and NZDep06 Decile

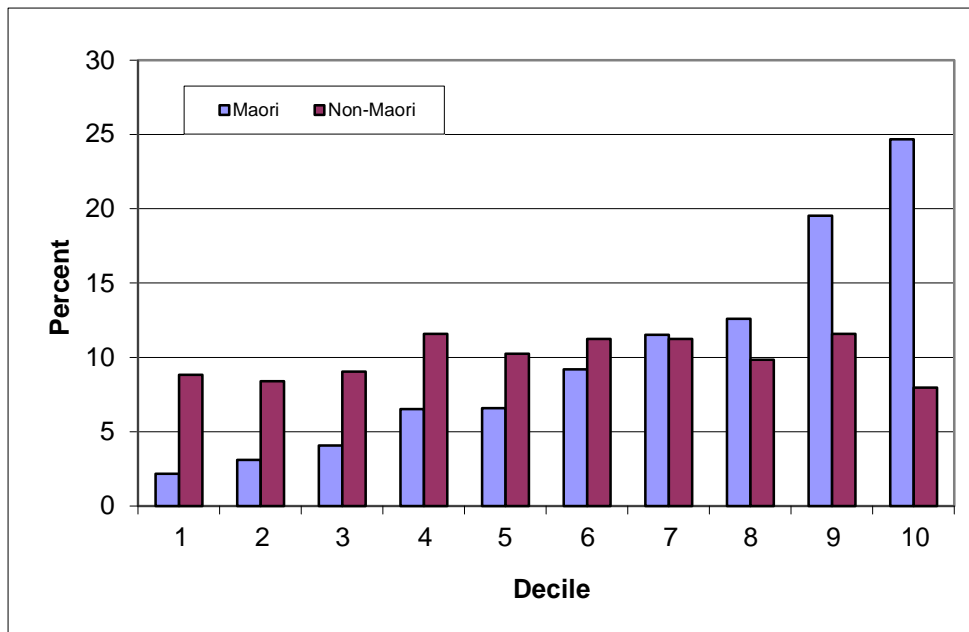
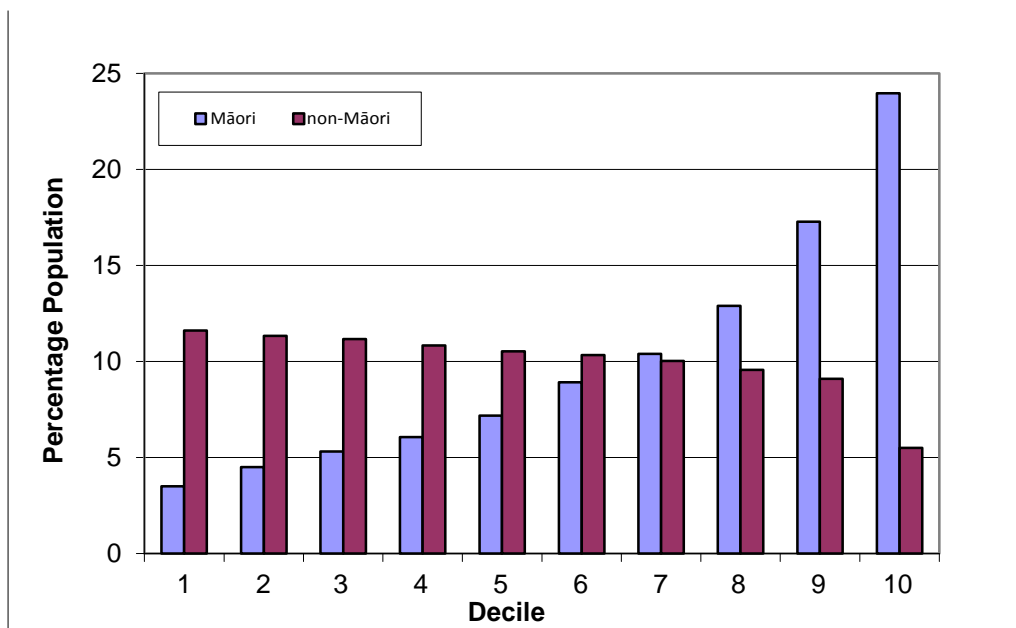


Figure 9: New Zealand population, ethnicity and NZDep06 Decile



2.2 Education

The population of Waikato DHB has a smaller proportion of university graduates (degree level and above) (11.3%), compared to the New Zealand population (14.2%). It also has a higher rate of people with no qualifications (26.0% compared to 22.4% for New Zealand).

2.3 Income

The Waikato DHB population has a much lower proportion of the people earning over \$30,000 in personal income; 27.2 percent compared to 37.3 percent for New Zealand. This represents a much lower proportion of people earning around or above the average annual personal income in New Zealand, which stood at \$33,189 in 2006/07 (Statistics New Zealand, 2012).

2.4 Employment

The employment rate for the Waikato DHB population is less than that for New Zealand (92.8% compared to 94.9%). In terms of type of employment, there is a similar proportion of professionals and managers in the Waikato DHB (35.6% compared to 36.0% nationally) and a higher proportion of machine operators and labourers (18.4% compared to 16.8% nationally).

2.5 Housing Tenure

Housing tenure in the Waikato DHB is similar to that for New Zealand.

Table 2.1: Proportion of DHB households, housing tenure, 2006 Census

	Unit	Total, dwelling owned or partly owned by usual resident(s)	Total, dwelling not owned or partly owned by usual resident(s)	Total, dwelling held in a family trust by usual resident(s)	Not elsewhere included	Total
Waikato	Number	61623	40014	13071	8190	122901
	Percentage	50.1	32.6	10.6	6.7	100.0
New Zealand	Number	743955	451965	167925	90333	1454178
	Percentage	51.2	31.1	11.6	6.2	100.0

2.6 Communications and Transport

Access to some forms of telecommunications in Waikato DHB is lower than that seen nationally. This includes telephone (84.7% compared to 87.8% nationally) and the internet (53.9% compared to 58.0% nationally). Overall 2.4 percent of Waikato DHB resident have no access to telecommunications compared to 2.0 percent of New Zealanders.

Access to a motor vehicle is higher in Waikato DHB compared to national levels. 6.6 percent of the Waikato DHB population have no access to a motor vehicle compared to 7.7 percent nationally.

3 HEALTH STATUS

An understanding of the general health status of a population is important for ensuring the provision of adequate health services. This information is also important for determining priority issues for the District Health Board. This chapter presents information about health status for people living in the Waikato DHB district, in comparison to all New Zealanders.

Key points

- The overall avoidable mortality rate for Māori was statistically significantly higher than that for non-Māori.
- Ischaemic heart disease, motor vehicle accidents and lung cancer were the leading causes of avoidable mortality for both Māori and non-Māori in the Waikato DHB. In addition, diabetes and chronic obstructive pulmonary disease (COPD) were other major causes of mortality for Māori, as were colorectal cancer and suicide for non-Māori.
- For both genders, ischaemic heart disease, motor vehicle accidents, colorectal, and lung cancers were major causes of avoidable mortality in the Waikato DHB. Breast cancer was also a leading cause of death for females, as was suicide and self-inflicted injuries for males.
- The rate of avoidable hospitalisations for Māori was statistically significantly higher than the comparable non-Māori rate. The avoidable hospitalisation rate for Waikato DHB was statistically significantly higher than the national rate.
- For Māori and non-Māori in the Waikato DHB, major causes of avoidable hospitalisations were similar: respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina.
- Females and males experienced similar major causes of avoidable hospitalisations: respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina.
- Māori and non-Māori experienced similar leading causes of hospitalisations for children aged 0-4 years: respiratory infections, persons encountering health services in other circumstances, ENT infections, and disorders related to length of gestation and fetal growth.
- For both Māori and non-Māori children aged 5-14 years, major causes of hospitalisations were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections.
- Both males and females aged 5-14 years experienced the same four leading causes of hospitalisation: dental conditions, respiratory conditions, injuries to the elbow and forearms, and ENT infections.
- Ischaemic heart disease, lung cancer, stroke and COPD were four of the five leading causes of death for both Māori and non-Māori aged 65+ years.
- For both males and females, ischaemic heart disease, stroke, lung and colorectal cancers were leading causes of mortality for those aged 65+ years.
- There were distinct differences between Māori and non-Māori in the pattern of leading causes of hospitalisation for those aged 65+ years. COPD, diabetes, and congestive heart failure were the leading causes for Māori, compared to angina, disorders of lens, and skin cancers for non-Māori.
- Both females and males aged 65+ years experienced similar leading causes of hospitalisations: angina, respiratory infections, and persons encountering health services for specific procedures and health care.

- The ischaemic heart disease mortality rate for Māori was statistically significantly higher than the non-Māori rate. However ischaemic heart disease hospitalisation rate in the DHB was statistically significantly lower than the national rate.
- The hospital admission rate for all cardiovascular disease and stroke for overall Māori and Māori women were statistically significantly higher than their non-Māori counterparts.
- The COPD hospitalisation rate for Māori was statistically significantly higher than the non-Māori rate but lower in the Waikato DHB compared to the national rate.
- The cancer specific rates for lung cancer mortality, hospitalisation, and cancer registration were statistically significantly higher for Māori than non-Māori.
- The hospital admission and cancer registration rates for melanoma were statistically significantly lower for Māori than non-Māori, but the hospitalisation rates were higher for Waikato DHB compared to the national rate.
- The unintentional injury mortality and hospitalisation rates for youth aged 15-24 years in the Waikato DHB were statistically significantly higher than the rate for youth in New Zealand.
- The rates of hospital admissions due to diabetes and renal failure were statistically significantly higher for Māori than non-Māori.
- The hospitalisation rate for asthma was significantly higher for Māori than non-Māori. Māori children aged 15-24 years hospitalised for asthma also had a statistically significantly higher rate compared to non-Māori. The overall asthma hospitalisation rate for the Waikato DHB was statistically significantly lower than that observed nationally.
- In the Waikato DHB, the rate of hospital admissions due to falls was statistically significantly lower than the national rate.

3.1 Avoidable Mortality

The overall avoidable mortality rate for Māori was significantly higher than that for non-Māori (Table 3.1).

Table 3.1: Avoidable mortality, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Waikato	Female	222.9	86.4	- 359.5	80.9	40.9	- 120.9	102.2	62.3	- 142.2
	Male	337.6	163.0	- 512.2	140.2	84.8	- 195.6	166.6	114.5	- 218.8
	Total	277.3	167.8	- 386.9	110.3	76.1	- 144.4	133.9	101.2	- 166.7
New Zealand	Female	214.6	168.7	- 260.5	74.2	63.5	- 84.8	88.9	78.2	- 99.6
	Male	308.9	251.4	- 366.5	122.9	109.1	- 136.7	142.4	128.6	- 156.1
	Total	259.8	223.3	- 296.3	98.1	89.4	- 106.8	115.1	106.4	- 123.8

3.2 Leading Causes of Avoidable Mortality

Ischaemic heart disease, motor vehicle accidents and lung cancer were the leading causes of avoidable mortality for both Māori and non-Māori in the Waikato DHB (Table 3.2). In addition, diabetes and COPD were other major causes of mortality for Māori, as were colorectal cancer and suicide and self-inflicted injuries for non-Māori.

Table 3.2: Leading causes of avoidable mortality, ethnicity, 0-74 years, 2006-08

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Diabetes	2	Lung cancer	2
	Lung cancer	3	Diabetes	3
	Motor vehicle accidents	4	Motor vehicle accidents	4
	COPD	5	Suicide and self-inflicted injuries	5
non-Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Motor vehicle accidents	2	Suicide and self-inflicted injuries	2
	Suicide and self-inflicted injuries	3	Lung cancer	3
	Lung cancer	4	Motor vehicle accidents	4
	Colorectal cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

For both genders, ischaemic heart disease, motor vehicle accidents, colorectal and lung cancers were major causes of avoidable mortality in the Waikato DHB (Table 3.3). Breast cancer was also a leading cause of death for females, as was suicide and self-inflicted injuries for males.

Table 3.3: Leading causes of avoidable mortality, gender, 0-74 years, 2006-08

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Breast cancer (female only)	1	Breast cancer (female only)	1
	Lung cancer	2	Lung cancer	2
	Ischaemic heart disease	3	Ischaemic heart disease	3
	Motor vehicle accidents	4	Colorectal cancer	4
	Colorectal cancer	5	Diabetes	5
Male	Ischaemic heart disease	1	Ischaemic heart disease	1
	Motor vehicle accidents	2	Suicide and self-inflicted injuries	2
	Suicide and self-inflicted injuries	3	Motor vehicle accidents	3
	Lung cancer	4	Lung cancer	4
	Colorectal cancer	5	Diabetes	5
Total	Ischaemic heart disease	1	Ischaemic heart disease	1
	Motor vehicle accidents	2	Suicide and self-inflicted injuries	2
	Lung cancer	3	Lung cancer	3
	Suicide and self-inflicted injuries	4	Motor vehicle accidents	4
	Colorectal cancer	5	Diabetes	5

3.3 Avoidable Hospitalisations

The rate of avoidable hospitalisations for Māori was statistically significantly higher than the comparable non-Māori rate (Table 3.4). The overall avoidable hospitalisation rate for Waikato DHB was statistically significantly higher than the national rate.

Table 3.4: Avoidable hospitalisations, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Waikato	Female	4434.9	3793.2	- 5076.7	2785.4	2465.7	- 3105.2	3110.2	2829.1	- 3391.2
	Male	4568.5	3907.3	- 5229.7	3216.0	2872.3	- 3559.6	3468.9	3173.0	- 3764.9
	Total	4507.6	4046.6	- 4968.5	2998.2	2763.6	- 3232.8	3289.4	3085.2	- 3493.5
New Zealand	Female	4904.4	4671.6	- 5137.1	3156.7	3061.1	- 3252.3	3408.8	3321.6	- 3496.1
	Male	4974.2	4736.0	- 5212.5	3535.8	3435.8	- 3635.9	3746.4	3655.7	- 3837.2
	Total	4946.3	4779.6	- 5112.9	3347.1	3277.8	- 3416.3	3578.9	3516.0	- 3641.9

3.4 Leading Causes of Avoidable Hospitalisations

For Māori and non-Māori in the Waikato DHB, major causes of avoidable hospitalisations were similar: respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina (Table 3.5).

Table 3.5: Leading causes of avoidable hospitalisations, ethnicity, 0-74 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Dental conditions	2
	ENT infections	3	Asthma	3
	Angina	4	ENT infections	4
	Gastroenteritis	5	Angina	5
non-Māori	Respiratory infections	1	Respiratory infections	1
	ENT infections	2	Gastroenteritis	2
	Gastroenteritis	3	ENT infections	3
	Dental conditions	4	Dental conditions	4
	Angina	5	Angina	5

Note: ENT infections= ear, nose and throat infections

Females and males experienced similar major causes of avoidable hospitalisations. These were: respiratory infections, dental conditions, ENT infections, gastroenteritis, and angina (Table 3.6).

Table 3.6: Leading causes of avoidable hospitalisations, gender, 0-74 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Gastroenteritis	2
	ENT infections	3	Dental conditions	3
	Gastroenteritis	4	ENT infections	4
	Angina	5	Cellulitis	5
Male	Respiratory infections	1	Respiratory infections	1
	ENT infections	2	Gastroenteritis	2
	Dental conditions	3	ENT infections	3
	Gastroenteritis	4	Dental conditions	4
	Angina	5	Angina	5
Total	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Gastroenteritis	2
	ENT infections	3	Dental conditions	3
	Gastroenteritis	4	ENT infections	4
	Angina	5	Angina	5

Note: ENT infections= ear, nose and throat infections

3.5 Unintentional Injury Mortality

There was no statistically significant difference between the Māori and non-Māori age-standardised rates for unintentional injury mortality in the Waikato DHB (Table 3.7).

Table 3.7: Unintentional injury mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Waikato	Female	23.6	-23.0	- 70.2	11.4	-5.8	- 28.7	14.6	-3.0	- 32.1
	Male	52.4	-19.6	- 124.4	28.8	0.0	- 57.6	33.7	6.5	- 61.0
	Total	37.2	-4.7	- 79.2	20.1	3.3	- 36.9	24.0	7.9	- 40.2
New Zealand	Female	21.2	6.0	- 36.3	7.8	3.8	- 11.8	10.4	6.0	- 14.7
	Male	49.1	25.2	- 73.0	21.6	14.8	- 28.5	26.1	19.1	- 33.0
	Total	34.5	20.7	- 48.4	14.6	10.7	- 18.6	18.1	14.0	- 22.2

3.6 Unintentional Injury Hospitalisations

The Māori and non-Māori age-standardised rates of unintentional injury hospitalisations were not statistically significantly different (Table 3.8).

Table 3.8: Unintentional injury hospitalisation, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori			non-Māori			Total		
		ASR	95% confidence		ASR	95% confidence		ASR	95% confidence	
Waikato	Female	1221.8	881.3	- 1562.4	1066.1	872.0	- 1260.2	1102.1	936.2	- 1268.0
	Male	2278.0	1804.2	- 2751.7	1975.7	1714.1	- 2237.3	2042.7	1817.4	- 2268.0
	Total	1735.7	1446.7	- 2024.7	1522.9	1359.8	- 1686.0	1571.9	1432.0	- 1711.7
New Zealand	Female	1344.0	1220.6	- 1467.5	1133.4	1077.2	- 1189.6	1174.8	1124.1	- 1225.5
	Male	2485.9	2315.3	- 2656.6	2015.8	1942.3	- 2089.3	2095.7	2028.9	- 2162.6
	Total	1900.9	1796.5	- 2005.3	1575.3	1529.0	- 1621.6	1634.3	1592.4	- 1676.3

3.7 Child Health (0-14 years)

3.7.1 Leading causes of hospitalisations for children 0-4 years by ethnicity

The leading causes of hospitalisations for children aged 0-4 years, which included respiratory infections, persons encountering health services in other circumstances, ENT infections, and disorders related to length of gestation and fetal growth, were similar for Māori and non-Māori (Table 3.9).

Table 3.9: Leading causes of hospitalisations, ethnicity, 0-4 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Respiratory infections	1	Respiratory infections	1
	*Persons encountering health services in other circumstances	2	Persons encountering health services in other circumstances	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	Dental conditions	4	Gastro-oesophageal reflux disease	4
	ENT infections	5	ENT infections	5
non-Māori	Persons encountering health services in other circumstances	1	Persons encountering health services in other circumstances	1
	Respiratory infections	2	Respiratory infections	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Gastro-oesophageal reflux disease	5	ENT infections	5

Note: ENT infections= ear, nose and throat infections

*Persons encountering health services in other circumstances (Z70-Z76). For example, health supervision and care of other healthy infant and child.

3.7.2 Leading causes of hospitalisations for children 0-4 years by gender

Female and male children aged 0-4 years have similar leading causes for hospitalisation (Table 3.10).

Table 3.10: Leading causes of hospitalisations, gender, 0-4 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	*Persons encountering health services in other circumstances	1	Persons encountering health services in other circumstances	1
	Respiratory infections	2	Respiratory infections	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Gastro-oesophageal reflux disease	5	ENT infections	5
Male	Persons encountering health services in other circumstances	1	Respiratory infections	1
	Respiratory infections	2	Persons encountering health services in other circumstances	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Gastro-oesophageal reflux disease	5	ENT infections	5
Total	Persons encountering health services in other circumstances	1	Respiratory infections	1
	Respiratory infections	2	Persons encountering health services in other circumstances	2
	Disorders related to length of gestation and fetal growth	3	Disorders related to length of gestation and fetal growth	3
	ENT infections	4	Gastro-oesophageal reflux disease	4
	Gastro-oesophageal reflux disease	5	ENT infections	5

Note: ENT infections= ear, nose and throat infections

*Persons encountering health services in other circumstances (Z70-Z76). For example, health supervision and care of other healthy infant and child.

3.7.3 Leading causes of hospitalisations for children 5-14 years by ethnicity

For both Māori and non-Māori children aged 5-14 years, major causes of hospitalisations were: dental conditions, respiratory infections, injuries to the elbow and forearm, and ENT infections (Table 3.11).

Table 3.11: Leading causes of hospitalisations, ethnicity, 5-14 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Dental conditions	1	Dental conditions	1
	ENT infections	2	Respiratory infections	2
	Respiratory infections	3	ENT infections	3
	Injuries to the elbow and forearm	4	Injuries to the elbow and forearm	4
	Cellulitis	5	*Persons encountering health services for specific procedures and health care	5
non-Māori	Respiratory infections	1	Respiratory infections	1
	Dental conditions	2	Dental conditions	2
	Injuries to the elbow and forearm	3	Injuries to the elbow and forearm	3
	ENT infections	4	ENT infections	4
	Symptoms and signs involving the digestive system and abdomen	5	Persons encountering health services for specific procedures and health care	5

Note: ENT infections= ear, nose and throat infections

* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

3.7.4 Leading causes of hospitalisations for children 5-14 years by gender

Both males and females aged 5-14 years experienced the same four leading causes of hospitalisation: dental conditions, respiratory conditions, injuries to the elbow and forearm, and ENT infections (Table 3.12).

Table 3.12: Leading causes of hospitalisations, gender, 5-14 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	ENT infections	3	ENT infections	3
	Injuries to the elbow and forearm	4	Injuries to the elbow and forearm	4
	Symptoms and signs involving the digestive system and abdomen	5	*Persons encountering health services for specific procedures and health care	5
Male	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Injuries to the elbow and forearm	4	ENT infections	4
	Injuries to the head	5	Injuries to the head	5
Total	Dental conditions	1	Dental conditions	1
	Respiratory infections	2	Respiratory infections	2
	ENT infections	3	Injuries to the elbow and forearm	3
	Injuries to the elbow and forearm	4	ENT infections	4
	Symptoms and signs involving the digestive system and abdomen	5	Persons encountering health services for specific procedures and health care	5

Note: ENT infections= ear, nose and throat infections

* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

3.8 Older People's Health (65+ years)

3.8.1 Older people, leading causes of mortality, 65+ years by ethnicity

Ischaemic heart disease, lung cancer, stroke and COPD were four of the five leading causes of death for both Māori and non-Māori aged 65+ years (Table 3.13). Diabetes was also a leading cause of mortality for Māori, and colorectal cancer for non-Māori.

Table 3.13: Leading causes of mortality, ethnicity, 65+ years, 2006-08

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Lung cancer	2	Lung cancer	2
	Diabetes	3	COPD	3
	COPD	4	Diabetes	4
	Stroke	5	Stroke	5
non-Māori	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	Lung cancer	3	COPD	3
	COPD	4	Lung cancer	4
	Colorectal cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

3.8.2 Older people, leading causes of mortality, 65+ years by gender

For both males and females, ischaemic heart disease, stroke, lung and colorectal cancers were leading causes of mortality for those aged 65+ years (Table 3.14). For females, breast cancer was another major cause of death, as was COPD for males.

Table 3.14: Leading causes of mortality, gender, 65+ years, 2006-08

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	Ischaemic heart disease	1	Ischaemic heart disease	1
	Stroke	2	Stroke	2
	Lung cancer	3	COPD	3
	Colorectal cancer	4	Lung cancer	4
	Breast cancer (female only)	5	Colorectal cancer	5
Male	Ischaemic heart disease	1	Ischaemic heart disease	1
	Lung cancer	2	Lung cancer	2
	COPD	3	COPD	3
	Stroke	4	Stroke	4
	Colorectal cancer	5	Colorectal cancer	5
Total	Ischaemic heart disease	1	Ischaemic heart disease	1
	Lung cancer	2	Stroke	2
	Stroke	3	COPD	3
	COPD	4	Lung cancer	4
	Colorectal cancer	5	Colorectal cancer	5

Note: COPD=chronic obstructive pulmonary disease

3.8.3 Older people, leading causes hospitalisation, 65+ years by ethnicity

There were distinct differences between Māori and non-Māori in the pattern of leading causes of hospitalisation for those aged 65+ years (Table 3.15). COPD, diabetes, and congestive heart failure were the leading causes for Māori, compared to angina, disorders of lens, and skin cancers for non-Māori.

Table 3.15: Leading causes of hospitalisations, ethnicity, 65+ years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Māori	*Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	COPD	2	COPD	2
	Diabetes	3	Respiratory infections	3
	Respiratory infections	4	Diabetes	4
	Congestive heart failure	5	Angina	5
non-Māori	Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Disorders of lens Skin cancers Respiratory infections	3	Respiratory infections	3
		4	Ischaemic heart disease	4
		5	Other forms of heart disease	5

Note: COPD=chronic obstructive pulmonary disease

* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

3.8.4 Older people, leading causes of hospitalisation, 65+ years by gender

Both females and males aged 65+ years experienced similar leading causes of hospitalisations: angina, respiratory infections, and persons encountering health services for specific procedures and health care (Table 3.16).

Table 3.16: Leading causes of hospitalisations, gender, 65+ years, 2007-09

	Waikato DHB		New Zealand	
	Condition	Rank	Condition	Rank
Female	*Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Disorders of lens	2	Angina	2
	Angina	3	Respiratory infections	3
	COPD	4	COPD	4
	Respiratory infections	5	Other forms of heart disease	5
Male	Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Skin cancers Respiratory	3	Respiratory infections	3
	infections Ischaemic	4	Ischaemic heart disease	4
	heart disease	5	Other forms of heart disease	5
Total	Persons encountering health services for specific procedures and health care	1	Persons encountering health services for specific procedures and health care	1
	Angina	2	Angina	2
	Disorders of lens	3	Respiratory infections	3
	Respiratory infections	4	Ischaemic heart disease	4
	Skin cancers	5	Other forms of heart disease	5

Note: COPD=chronic obstructive pulmonary disease

* Persons encountering health services for specific procedures and health care (Z40-Z54) - are intended for use to indicate a reason for care. They may be used for patients who have already been treated for a disease or injury, but who are receiving follow-up or prophylactic care, convalescent care, or care to consolidate the treatment, to deal with residual states, to ensure that the condition has not recurred, or to prevent recurrence.

3.9 Other Health Conditions

Further data on other conditions in Waikato DHB are available in the appendices 2-4. Key points are listed here.

3.9.1 Chronic conditions

The ischaemic heart disease mortality rate for Māori was statistically significantly higher than the non-Māori rate (Appendix 2: Table 2.1.3). However, the local ischaemic heart disease hospitalisation rate was statistically significantly lower than the national rate (Appendix 3: Table 3.1.3)

The hospital admission rate for all cardiovascular disease and stroke for overall Māori and Māori women were statistically significantly higher than their non-Māori counterparts (Appendix 3: Table 3.1.2 and Table 3.1.4).

The COPD hospitalisation rate for Māori was statistically significantly higher than the non-Māori rate but lower in the Waikato DHB compared to the national rate (Appendix 3: Table 3.1.27).

3.9.2 Cancer

The cancer specific rates for lung cancer mortality, hospitalisation, and cancer registration were statistically significantly higher for Māori than non-Māori (Appendix 2: Table 2.1.6; Appendix 3: Table 3.1.6; Appendix 4: Table 4.1.1).

The hospital admission and cancer registration rates for melanoma were statistically significantly lower for Māori than non-Māori but the hospitalisation rates were higher for Waikato DHB compared to the national rate (Appendix 3: Table 3.1.11 and Appendix 4: Table 4.1.6).

3.9.3 Other conditions

The unintentional injury mortality and hospitalisation rates for youth 15-24 years in the Waikato DHB were statistically significantly higher than the rate for youth in New Zealand (Appendix 2: Table 2.1.15 and Appendix 3: Table 3.1.14).

The rates of hospital admissions due to diabetes and renal failure were statistically significantly higher for Māori than non-Māori (Appendix 3: Table 3.1.24 and Table 3.1.25).

The hospitalisation rate for asthma was significantly higher for Māori than non-Māori (Appendix 3: Table 3.1.26). Māori children under 15 years hospitalised for asthma also had a statistically significantly higher rate compared to non-Māori children (Appendix 3: Table 3.1.28). The overall asthma hospitalisation rate for the Waikato DHB was statistically significantly lower than that observed nationally.

In the Waikato DHB, the rate of hospital admissions due to falls was statistically significantly lower than the national rate (Appendix 3: Table 3.1.31).

4 HEALTH SERVICE UTILISATION

New Zealanders have access to a variety of health care workers and services in the health and disability sector. This chapter presents information on the use of these services within the Waikato DHB compared to the national experience.

Information about service utilisation is an important part of understanding the need and demand for health and disability services. This information, when considered in relation to information in other chapters of this HNA, provides evidence for decision making on DHB priorities for health and disability services.

Recent data was only available for a small number of measures, these being immunisation and screening.

Key points

- In the Waikato DHB, 64.3 percent of Māori children had received all specified immunisation vaccines by the age of two, compared to 77.5 percent of non-Māori children. The coverage rates for both ethnic groups were lower than the New Zealand averages.
- 49.2 percent of Māori people aged 65 years and over either received an influenza vaccine, or had an agreement made by a primary health provider to receive an influenza vaccine in the past 12 months, which is lower than the national Māori rate of 54.4 percent. In comparison, the non-Māori rate was 55.4 percent, also lower than the national non-Māori average (60.9%).
- Of Māori women in the Waikato DHB aged 50-64 years, 41.9 percent had a mammogram to check for early signs of breast cancer in the past two years, which was lower than the Māori national percentage (51.5%). In comparison, the non-Māori rate was 59.5 percent, also lower than the national non-Māori average (65.0%).
- Of Māori women aged 20 to 69 years in the Waikato DHB who had a primary health care provider, 54.9 percent had a cervical smear in the past three years, which was similar to the overall national rate for Māori women (54.4%). The rate for non-Māori women (85.0%) was however higher than the comparable national rate (75.5%).

4.1 Immunisation Coverage at 2 Years

Fully immunised at age two years means that a child has received the vaccinations scheduled for ages 6 weeks, 3 months, 5 months and 15 months.

In the Waikato DHB, 64.3 percent of Māori children had received all specified immunisation vaccines by the age of two, compared to 77.5 percent of non-Māori children (Table 4.1). The coverage rates for both ethnic groups were lower than the New Zealand averages.

Table 4.1: Full immunisation coverage at two years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Waikato DHB	64.3%	77.5%	73.4%
New Zealand	72.0%	79.4%	77.7%

4.2 Influenza Vaccine Coverage at 65+ Years

In the Waikato DHB, 49.2 percent of Māori people aged 65 years and over either received an influenza vaccine, or had an agreement made by a primary health provider to receive an influenza vaccine in the past 12 months, which is lower than the national Māori rate of 54.4 percent (Table 4.2). In comparison, the non-Māori rate was 55.4 percent, also lower than the national non-Māori average (60.9%).

Table 4.2: Influenza vaccinations in the last 12 months, 65+ years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Waikato DHB	49.2%	55.4%	57.3%
New Zealand	54.4%	60.9%	60.5%

4.3 Breast Cancer Screening

Of Māori women in the Waikato DHB aged 50-64 years, 41.9 percent had a mammogram to check for early signs of breast cancer in the past two years, which was lower than the Māori national percentage (51.5%), (Table 4.3). In comparison, the non-Māori rate was 59.5 percent, also lower than the national non-Māori average (65.0%).

Table 4.3: Breast screening coverage, 50-64 years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Waikato DHB	41.9%	59.5%	55.9%
New Zealand	51.5%	65.0%	63.7%

4.4 Cervical Cancer Screening

Of Māori women aged 20 to 69 years in the Waikato DHB who had a primary health care provider, 54.9 percent had a cervical smear in the past three years, which was similar to the overall national rate for Māori women (54.4%), (Table 4.4). The rate for non-Māori women (85.0%) was however higher than the comparable national rate (75.5%).

Table 4.4: Had cervical smear in the last three years, 20-69 years, percent, ethnicity, 2009-10

DHB	Māori	non-Māori	Total
Waikato DHB	54.9%	85.0%	89.9%
New Zealand	54.4%	75.5%	72.6%

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Appendix 1

Demographic Tables

Table 1.1.1: Projected Total Population by Age and Sex at 30 June 2007 (2006-Base)

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	0-14	40,340	38,490	78,840	40,890	39,210	80,100	41,320	39,570	80,910	41,880	39,710	81,580	40,700	38,640	79,340	0.9	0.4	0.6
	15-64	111,400	116,030	227,420	117,800	121,110	238,930	119,040	122,040	241,100	119,630	122,430	242,040	120,860	122,540	243,400	8.5	5.6	7.0
	65+	20,070	23,900	43,960	24,290	28,240	52,510	27,800	32,010	59,790	32,250	36,850	69,080	36,950	42,450	79,370	84.1	77.6	80.6
	Total	171,810	178,420	350,220	182,980	188,560	371,540	188,160	193,620	381,800	193,760	198,990	392,700	198,510	203,630	402,110	15.5	14.1	14.8
New Zealand	0-14	454,960	433,360	888,310	463,530	439,930	903,460	471,020	446,390	917,400	481,280	455,240	936,520	477,070	451,780	928,840	4.9	4.3	4.6
	15-64	1,364,450	1,420,210	2,784,650	1,453,870	1,503,460	2,957,340	1,484,350	1,530,690	3,015,030	1,514,650	1,554,990	3,069,630	1,545,220	1,573,770	3,119,010	13.2	10.8	12.0
	65+	228,930	282,690	511,620	280,080	330,240	610,290	324,050	374,290	698,340	378,790	433,010	811,780	440,280	503,800	944,080	92.3	78.2	84.5
	Total	2,048,340	2,136,260	4,184,580	2,197,480	2,273,630	4,471,090	2,279,420	2,351,370	4,630,770	2,374,720	2,443,240	4,817,930	2,462,570	2,529,350	4,991,930	20.2	18.4	19.3

Table 1.1.2: Projected Total Population Aged 0 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,540	2,470	5,010	2,770	2,620	5,390	2,680	2,540	5,230	2,630	2,500	5,130	2,610	2,480	5,090	2.8	0.4	1.6
New Zealand	30,150	28,910	59,060	31,830	30,190	62,020	31,380	29,760	61,140	31,380	29,750	61,130	31,500	29,870	61,360	4.5	3.3	3.9

Table 1.1.3: Projected Total Population Aged 1-4 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	10,130	10,000	20,130	11,570	10,920	22,490	11,070	10,510	21,580	10,740	10,200	20,940	10,620	10,080	20,700	4.8	0.8	2.8
New Zealand	116,060	110,880	226,940	130,230	122,710	252,940	126,860	120,240	247,090	125,820	119,240	245,060	126,140	119,520	245,660	8.7	7.8	8.2

Table 1.1.4: Projected Total Population Aged 5-9 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	13,300	12,680	25,980	13,240	12,960	26,200	14,560	13,760	28,330	13,910	13,190	27,090	13,530	12,830	26,360	1.7	1.2	1.5
New Zealand	149,230	142,650	291,880	151,640	144,070	295,710	163,170	153,990	317,160	159,530	151,110	310,640	158,510	150,120	308,630	6.2	5.2	5.7

Table 1.1.5: Projected Total Population Aged 10-14 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	14,370	13,340	27,720	13,310	12,710	26,020	13,010	12,760	25,770	14,600	13,820	28,420	13,940	13,250	27,190	-	3.0	- 0.7 - 1.9
New Zealand	159,520	150,920	310,430	149,830	142,960	292,790	149,610	142,400	292,010	164,550	155,140	319,690	160,920	152,270	313,190	0.9	0.9	0.9

Table 1.1.6: Projected Total Population Aged 15-19 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	13,730	13,470	27,200	14,090	13,170	27,270	13,250	12,810	26,060	12,840	12,750	25,580	14,420	13,810	28,230	5.0	2.5	3.8
New Zealand	159,400	154,160	313,560	160,800	153,760	314,560	154,110	148,300	302,410	152,660	146,680	299,340	167,590	159,430	327,020	5.1	3.4	4.3

Table 1.1.7: Projected Total Population Aged 20-24 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	12,370	11,980	24,350	14,140	13,460	27,600	14,120	13,110	27,240	13,020	12,470	25,490	12,610	12,410	25,020	1.9	3.6	2.8
New Zealand	145,850	145,330	291,180	169,800	160,880	330,690	168,800	159,910	328,710	159,270	152,430	311,690	157,870	150,830	308,700	8.2	3.8	6.0

Table 1.1.8: Projected Total Population Aged 25-29 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	10,410	10,530	20,930	11,700	11,340	23,040	12,720	12,160	24,890	13,170	12,240	25,410	12,080	11,600	23,670	16.0	10.2	13.1
New Zealand	126,770	133,600	260,370	150,020	150,210	300,230	165,090	158,620	323,710	167,730	160,800	328,530	158,300	153,340	311,640	24.9	14.8	19.7

Table 1.1.9: Projected Total Population Aged 30-34 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	10,530	11,530	22,060	10,950	11,300	22,250	11,670	11,670	23,340	12,680	12,380	25,060	13,130	12,460	25,590	24.7	8.1	16.0
New Zealand	136,320	149,700	286,010	137,460	145,930	283,390	152,120	156,340	308,450	169,600	165,430	335,030	172,310	167,630	339,940	26.4	12.0	18.9

Table 1.1.10: Projected Total Population Aged 35-39 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	11,700	13,000	24,700	10,570	11,360	21,940	10,790	11,180	21,970	11,810	11,770	23,580	12,820	12,480	25,300	9.6	-	4.0
New Zealand	149,140	163,430	312,560	136,360	149,500	285,860	136,720	146,490	283,210	154,840	159,360	314,200	172,320	168,470	340,790	15.5	3.1	9.0

Table 1.1.11: Projected Total Population Aged 40-44 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	12,250	13,220	25,460	11,710	13,070	24,780	10,770	11,840	22,610	10,750	11,190	21,940	11,770	11,780	23,550	-	3.9	-
New Zealand	155,940	166,540	322,490	151,430	166,140	317,570	141,000	155,280	296,280	137,690	147,630	285,320	155,770	160,510	316,290	-	0.1	-

Table 1.1.12: Projected Total Population Aged 45-49 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	12,010	12,710	24,720	12,010	12,930	24,940	11,700	12,980	24,680	10,690	11,730	22,420	10,680	11,090	21,770	-	11.1	-
New Zealand	149,120	156,040	305,160	152,810	163,480	316,290	149,650	163,730	313,380	139,930	154,200	294,120	136,740	146,680	283,430	-	8.3	-

Table 1.1.13: Projected Total Population Aged 50-54 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	10,770	11,080	21,850	12,050	12,930	24,980	12,020	12,960	24,980	11,490	12,800	24,280	10,490	11,570	22,070	-	2.6	4.4
New Zealand	129,930	133,720	263,650	149,430	157,770	307,200	151,890	162,460	314,350	146,550	160,920	307,480	137,060	151,570	288,630	5.5	13.3	9.5

Table 1.1.14: Projected Total Population Aged 55-59 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	9,880	10,310	20,190	10,840	11,370	22,210	11,620	12,440	24,060	11,790	12,820	24,610	11,290	12,670	23,960	14.3	22.9	18.7
New Zealand	120,080	122,930	243,010	129,440	134,870	264,310	142,290	150,520	292,810	148,060	159,630	307,690	143,050	158,280	301,330	19.1	28.8	24.0

Table 1.1.15: Projected Total Population Aged 60-64 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	7,750	8,200	15,960	9,740	10,180	19,920	10,380	10,890	21,270	11,390	12,280	23,670	11,570	12,670	24,240	49.3	54.5	51.9
New Zealand	91,900	94,760	186,660	116,320	120,920	237,240	122,680	129,040	251,720	138,320	147,910	286,230	144,210	157,030	301,240	56.9	65.7	61.4

Table 1.1.16: Projected Total Population Aged 65-69 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	6,600	6,910	13,510	7,960	8,450	16,400	9,360	10,000	19,350	10,050	10,650	20,700	11,050	12,020	23,070	67.4	74.0	70.8
New Zealand	75,620	79,910	155,530	93,080	97,750	190,820	111,140	117,390	228,530	117,740	125,610	243,350	133,120	144,170	277,290	76.0	80.4	78.3

Table 1.1.17: Projected Total Population Aged 70-74 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	5,260	5,440	10,700	6,380	6,840	13,220	7,010	7,640	14,640	8,720	9,470	18,180	9,420	10,130	19,540	79.1	86.2	82.6
New Zealand	57,380	62,790	120,170	73,260	79,300	152,560	81,400	87,480	168,880	103,430	111,450	214,870	110,220	119,710	229,930	92.1	90.7	91.3

Table 1.1.18: Projected Total Population Aged 75-79 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	4,130	4,780	8,910	4,490	5,050	9,540	5,290	5,940	11,220	6,120	6,970	13,080	7,670	8,680	16,350	85.7	81.6	83.5
New Zealand	47,570	56,030	103,600	50,280	57,860	108,140	60,630	68,560	129,190	71,550	79,900	151,460	91,620	102,350	193,970	92.6	82.7	87.2

Table 1.1.19: Projected Total Population Aged 80-84 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,550	3,560	6,100	3,240	4,090	7,320	3,470	4,110	7,580	4,160	5,020	9,180	4,870	5,950	10,820	91.0	67.1	77.4
New Zealand	30,180	44,000	74,180	36,850	46,670	83,520	38,390	47,390	85,780	48,240	58,280	106,510	57,700	68,660	126,360	91.2	56.0	70.3

Table 1.1.20: Projected Total Population Aged 85-89 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	1,120	2,120	3,240	1,600	2,430	4,030	1,870	2,660	4,530	2,100	2,810	4,910	2,660	3,550	6,200	137.5	67.5	91.4
New Zealand	13,160	25,920	39,080	19,190	30,990	50,170	22,720	32,900	55,620	24,810	34,280	59,090	32,180	43,160	75,340	144.5	66.5	92.8

Table 1.1.21: Projected Total Population Aged 90+ Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	410	1,090	1,500	620	1,380	2,000	800	1,660	2,470	1,100	1,930	3,030	1,280	2,120	3,390	212.2	94.5	126.0
New Zealand	5,020	14,040	19,060	7,420	17,670	25,080	9,770	20,570	30,340	13,020	23,490	36,500	15,440	25,750	41,190	207.6	83.4	116.1

Table 1.1.22: Projected Total Population by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	171,800	178,400	350,200	183,000	188,600	371,500	188,200	193,600	381,800	193,700	199,000	392,700	198,500	203,600	402,100	15.5	14.1	14.8
New Zealand	2,048,300	2,136,200	4,184,600	2,197,500	2,273,600	4,471,100	2,279,400	2,351,400	4,630,800	2,374,700	2,443,200	4,817,900	2,462,600	2,529,300	4,991,900	20.2	18.4	19.3

NOTE: Owing to rounding, individual figures do not always sum to the totals shown.

These projections are: Medium Projection : Assuming Medium Fertility, Medium Mortality, and Medium Migration

These projections were derived in September 2010.

Source: Statistics New Zealand

Population Projections

Prepared for Ministry of Health

Ref No: ROM27819

Table 1.2.1: Projected Māori Population by Age and Sex at 30 June 2007 (2006-Base)

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	0-14	16,350	15,630	31,990	17,350	16,180	33,520	17,940	16,920	34,860	18,710	17,720	36,430	19,460	18,460	37,920	19.0	18.1	18.5
	15-64	18,240	20,260	38,480	20,240	22,590	42,810	21,670	23,790	45,460	23,140	24,980	48,110	24,350	25,930	50,280	33.5	28.0	30.7
	65+	760	990	1,750	1,090	1,350	2,450	1,300	1,630	2,920	1,670	2,160	3,810	2,140	2,810	4,940	181.6	183.8	182.3
	Total	35,350	36,880	72,220	38,680	40,120	78,780	40,910	42,340	83,240	43,520	44,860	88,350	45,950	47,200	93,140	30.0	28.0	29.0
New Zealand	0-14	110,480	104,810	215,310	119,900	114,160	234,070	126,030	119,990	246,030	133,180	126,750	259,920	132,290	125,860	258,150	19.7	20.1	19.9
	15-64	183,640	199,700	383,320	200,480	215,580	416,040	210,230	224,440	434,680	220,480	233,230	453,710	236,750	246,600	483,350	28.9	23.5	26.1
	65+	11,680	14,010	25,710	15,340	18,520	33,860	18,920	22,970	41,880	24,150	29,520	53,660	30,830	38,330	69,150	164.0	173.6	169.0
	Total	305,800	318,520	624,340	335,720	348,260	683,970	355,180	367,400	722,590	377,810	389,500	767,290	399,870	410,790	810,650	30.8	29.0	29.8

Table 1.2.2: Projected Māori Population Aged 0 Years by Sex at 30 June 2007(2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	920	870	1,800	1,100	1,040	2,140	1,080	1,020	2,100	1,070	1,010	2,080	1,080	1,030	2,110	17.4	18.4	17.2
New Zealand	8,070	7,840	15,920	9,220	8,750	17,980	9,080	8,620	17,700	9,050	8,590	17,640	9,310	8,830	18,140	15.4	12.6	13.9

Table 1.2.3: Projected Māori Population Aged 1-4 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	3,570	3,370	6,940	4,410	4,190	8,600	4,320	4,100	8,410	4,220	4,000	8,220	4,230	4,020	8,250	18.5	19.3	18.9
New Zealand	29,390	27,740	57,130	37,050	35,200	72,250	36,240	34,420	70,660	35,660	33,860	69,510	36,160	34,320	70,480	23.0	23.7	23.4

Table 1.2.4: Projected Māori Population Aged 5-9 Years by Sex at 30 June 2007(2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	4,420	4,120	8,540	4,590	4,410	8,990	5,390	5,130	10,520	5,270	5,010	10,290	5,160	4,910	10,070	16.7	19.2	17.9
New Zealand	36,500	34,900	71,410	38,540	36,750	75,290	45,430	43,250	88,690	44,370	42,230	86,600	43,760	41,640	85,410	19.9	19.3	19.6

Table 1.2.5: Projected Māori Population Aged 10-14 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	4,410	4,090	8,510	4,210	3,910	8,120	4,210	3,990	8,210	5,220	4,970	10,180	5,100	4,850	9,950	15.6	18.6	16.9
New Zealand	36,520	34,330	70,850	35,090	33,460	68,550	35,280	33,700	68,980	44,100	42,070	86,170	43,060	41,070	84,120	17.9	19.6	18.7

Table 1.2.6: Projected Māori Population Aged 15-19 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	3,950	4,050	8,000	4,140	3,670	7,810	4,020	3,700	7,720	4,000	3,740	7,740	4,970	4,680	9,650	25.8	15.6	20.6
New Zealand	32,900	33,090	65,980	34,100	32,300	66,390	33,530	32,150	65,680	33,610	32,080	65,690	42,170	40,200	82,370	28.2	21.5	24.8

Table 1.2.7: Projected Māori Population Aged 20-24 Years by Sex at 30 June 2007(2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,980	3,160	6,140	3,780	3,880	7,660	3,890	3,580	7,460	3,770	3,480	7,250	3,750	3,520	7,270	25.8	11.4	18.4
New Zealand	24,200	25,900	50,090	31,190	30,640	61,830	32,070	29,740	61,810	30,950	29,310	60,250	31,030	29,250	60,280	28.2	12.9	20.3

Table 1.2.8: Projected Māori Population Aged 25-29 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,600	2,760	5,360	2,700	2,920	5,620	3,320	3,420	6,740	3,500	3,160	6,660	3,390	3,070	6,460	30.4	11.2	20.5
New Zealand	20,620	22,960	43,580	21,930	23,830	45,750	27,180	27,580	54,760	29,110	27,190	56,310	28,040	26,780	54,820	36.0	16.6	25.8

Table 1.2.9: Projected Māori Population Aged 30-34 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,350	2,600	4,940	2,440	2,600	5,040	2,420	2,640	5,060	3,140	3,320	6,460	3,310	3,060	6,380	40.9	17.7	29.1
New Zealand	20,280	23,040	43,320	19,270	21,750	41,020	19,920	22,330	42,250	25,890	26,720	52,610	27,800	26,340	54,150	37.1	14.3	25.0

Table 1.2.10: Projected Māori Population Aged 35-39 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,200	2,540	4,740	2,220	2,470	4,690	2,300	2,580	4,880	2,310	2,560	4,870	3,020	3,240	6,260	37.3	27.6	32.1
New Zealand	19,940	22,610	42,550	18,780	21,830	40,610	18,390	21,360	39,750	19,130	21,750	40,880	24,990	26,070	51,060	25.3	15.3	20.0

Table 1.2.11: Projected Māori Population Aged 40-44 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,140	2,490	4,630	2,080	2,450	4,530	2,120	2,420	4,540	2,190	2,500	4,690	2,200	2,480	4,680	2.8	-	0.4
New Zealand	19,170	21,360	40,530	19,120	22,160	41,280	18,490	21,590	40,070	17,590	20,680	38,270	18,330	21,080	39,410	-	4.4	1.3

Table 1.2.12: Projected Māori Population Aged 45-49 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	1,860	2,170	4,030	2,040	2,360	4,400	1,990	2,360	4,350	2,020	2,330	4,350	2,090	2,420	4,500	12.4	11.5	11.7
New Zealand	16,760	18,590	35,350	18,010	20,280	38,290	18,040	20,990	39,040	17,620	20,820	38,440	16,770	19,950	36,720	0.1	7.3	3.9

Table 1.2.13: Projected Māori Population Aged 50-54 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	1,500	1,680	3,170	1,770	2,180	3,940	1,890	2,280	4,180	1,870	2,260	4,130	1,900	2,240	4,140	26.7	33.3	30.6
New Zealand	12,930	13,930	26,860	16,240	18,560	34,800	17,130	19,620	36,750	17,090	20,150	37,240	16,720	20,010	36,720	29.3	43.6	36.7

Table 1.2.14: Projected Māori Population Aged 55-59 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	1,140	1,300	2,440	1,440	1,690	3,130	1,600	1,960	3,560	1,760	2,180	3,940	1,750	2,160	3,910	53.5	66.2	60.2
New Zealand	10,070	10,860	20,930	12,390	13,760	26,140	14,630	16,810	31,440	16,040	18,710	34,750	16,070	19,260	35,330	59.6	77.3	68.8

Table 1.2.15: Projected Māori Population Aged 60-64 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	810	880	1,690	1,050	1,200	2,240	1,250	1,470	2,710	1,470	1,840	3,310	1,620	2,050	3,670	100.0	133.0	117.2
New Zealand	6,770	7,360	14,130	9,450	10,470	19,930	10,850	12,270	23,130	13,450	15,820	29,270	14,830	17,660	32,490	119.1	139.9	129.9

Table 1.2.16: Projected Māori Population Aged 65-69 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	660	680	1,340	720	840	1,560	890	1,080	1,980	1,110	1,350	2,450	1,320	1,690	3,010	100.0	148.5	124.6
New Zealand	5,410	5,930	11,350	6,200	7,030	13,240	8,000	9,180	17,180	9,690	11,250	20,930	12,110	14,580	26,690	123.8	145.9	135.2

Table 1.2.17: Projected Māori Population Aged 70-74 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	410	460	870	570	610	1,180	590	690	1,270	760	950	1,710	950	1,190	2,140	131.7	158.7	146.0
New Zealand	3,350	3,780	7,140	4,700	5,300	10,000	4,940	5,790	10,730	6,820	8,070	14,890	8,370	9,980	18,350	149.9	164.0	157.0

Table 1.2.18: Projected Māori Population Aged 75-79 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	200	320	520	290	390	680	420	480	900	460	580	1,040	610	800	1,420	205.0	150.0	173.1
New Zealand	1,810	2,380	4,200	2,590	3,230	5,820	3,470	4,200	7,670	3,930	4,830	8,760	5,540	6,830	12,360	206.1	187.0	194.3

Table 1.2.19: Projected Māori Population Aged 80-84 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	110	140	250	160	230	390	200	280	480	290	370	650	330	450	770	200.0	221.4	208.0
New Zealand	780	1,230	2,010	1,360	1,910	3,270	1,710	2,280	3,990	2,430	3,210	5,640	2,830	3,770	6,600	262.8	206.5	228.4

Table 1.2.20: Projected Māori Population Aged 85-89 Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	40	50	90	60	90	150	70	130	200	120	180	290	180	250	430	350.0	400.0	377.8
New Zealand	280	530	810	390	780	1,170	630	1,090	1,710	970	1,480	2,450	1,450	2,160	3,610	417.9	307.5	345.7

Table 1.2.21: Projected Māori Population Aged 90+ Years by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	-	20	20	10	30	50	20	50	70	40	80	120	70	120	180	/	500.0	800.0
New Zealand	50	160	200	100	270	360	170	430	600	310	680	990	530	1,010	1,540	960.0	531.3	670.0

Table 1.2.22: Projected Māori Population by Sex at 30 June 2007 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	36,300	37,700	74,000	39,800	41,100	80,900	42,000	43,400	85,400	44,600	45,900	90,400	47,000	48,200	95,300	29.5	27.9	28.8
New Zealand	305,800	318,500	624,300	335,700	348,300	684,000	355,200	367,400	722,600	377,800	389,500	767,300	399,900	410,800	810,700	30.8	29.0	29.9

NOTE: Owing to rounding, individual figures do not always sum to the totals shown.

These projections are: Medium Projection : Assuming Medium Fertility, Medium Mortality, and Medium Migration

These projections were derived in September 2010.

Source: Statistics New Zealand

Population Projections

Prepared for Ministry of Health

Ref No: ROM27819

Table 1.3.1: Projected Non Māori Population by Age and Sex at 30 June 2007 (2006-Base)

Location	Age Group	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
		Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Waikato	0-14	23,990	22,860	46,850	23,540	23,030	46,580	23,380	22,650	46,050	23,170	21,990	45,150	21,240	20,180	41,420	-	11.5	-	11.7	-	11.6
	15-64	93,160	95,770	188,940	97,560	98,520	196,120	97,370	98,250	195,640	96,490	97,450	193,930	96,510	96,610	193,120		3.6		0.9		2.2
	65+	19,310	22,910	42,210	23,200	26,890	50,060	26,500	30,380	56,870	30,580	34,690	65,270	34,810	39,640	74,430		80.3		73.0		76.3
	Total	136,460	141,540	278,000	144,300	148,440	292,760	147,250	151,280	298,560	150,240	154,130	304,350	152,560	156,430	308,970		11.8		10.5		11.1
New Zealand	0-14	344,480	328,550	673,000	343,630	325,770	669,390	344,990	326,400	671,370	348,100	328,490	676,600	344,780	325,920	670,690		0.1	-	0.8	-	0.3
	15-64	1,180,810	1,220,510	2,401,330	1,253,390	1,287,880	2,541,300	1,274,120	1,306,250	2,580,350	1,294,170	1,321,760	2,615,920	1,308,470	1,327,170	2,635,660		10.8		8.7		9.8
	65+	217,250	268,680	485,910	264,740	311,720	576,430	305,130	351,320	656,460	354,640	403,490	758,120	409,450	465,470	874,930		88.5		73.2		80.1
	Total	1,742,540	1,817,740	3,560,240	1,861,760	1,925,370	3,787,120	1,924,240	1,983,970	3,908,180	1,996,910	2,053,740	4,050,640	2,062,700	2,118,560	4,181,280		18.4		16.5		17.4

Table 1.3.2: Projected Non Māori Population Aged 0 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Waikato	1,620	1,600	3,210	1,670	1,580	3,250	1,600	1,520	3,130	1,560	1,490	3,050	1,530	1,450	2,980	-	5.6	-	9.4	-	7.2
New Zealand	22,080	21,070	43,140	22,610	21,440	44,040	22,300	21,140	43,440	22,330	21,160	43,490	22,190	21,040	43,220		0.5	-	0.1		0.2

Table 1.3.3: Projected Non Māori Population Aged 1-4 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Waikato	6,560	6,630	13,190	7,160	6,730	13,890	6,750	6,410	13,170	6,520	6,200	12,720	6,390	6,060	12,450	-	2.6	-	8.6	-	5.6
New Zealand	86,670	83,140	169,810	93,180	87,510	180,690	90,620	85,820	176,430	90,160	85,380	175,550	89,980	85,200	175,180		3.8		2.5		3.2

Table 1.3.4: Projected Non Māori Population Aged 5-9 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Waikato	8,880	8,560	17,440	8,650	8,550	17,210	9,170	8,630	17,810	8,640	8,180	16,800	8,370	7,920	16,290	-	5.7	-	7.5	-	6.6
New Zealand	112,730	107,750	220,470	113,100	107,320	220,420	117,740	110,740	228,470	115,160	108,880	224,040	114,750	108,480	223,220		1.8		0.7		1.2

Table 1.3.5: Projected Non Māori Population Aged 10-14 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Waikato	9,960	9,250	19,210	9,100	8,800	17,900	8,800	8,770	17,560	9,380	8,850	18,240	8,840	8,400	17,240	-	11.2	-	9.2	-	10.3
New Zealand	123,000	116,590	239,580	114,740	109,500	224,240	114,330	108,700	223,030	120,450	113,070	233,520	117,860	111,200	229,070	-	4.2	-	4.6	-	4.4

Table 1.3.6: Projected Non Māori Population Aged 15-19 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
Waikato	9,780	9,420	19,200	9,950	9,500	19,460	9,230	9,110	18,340	8,840	9,010	17,840	9,450	9,130	18,580	-	3.4	-	3.1	-	3.2
New Zealand	126,500	121,070	247,580	126,700	121,460	248,170	120,580	116,150	236,730	119,050	114,600	233,650	125,420	119,230	244,650	-	0.9	-	1.5	-	1.2

Table 1.3.7: Projected Non Māori Population Aged 20-24 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026				
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total		
Waikato	9,390	8,820	18,210	10,360	9,580	19,940	10,230	9,530	19,780	9,250	8,990	18,240	8,860	8,890	17,750	-	5.6	0.8	-	2.5
New Zealand	121,650	119,430	241,090	138,610	130,240	268,860	136,730	130,170	266,900	128,320	123,120	251,440	126,840	121,580	248,420	4.3	1.8			3.0

Table 1.3.8: Projected Non Māori Population Aged 25-29 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	7,810	7,770	15,570	9,000	8,420	17,420	9,400	8,740	18,150	9,670	9,080	18,750	8,690	8,530	17,210	11.3	9.8	10.5
New Zealand	106,150	110,640	216,790	128,090	126,380	254,480	137,910	131,040	268,950	138,620	133,610	272,220	130,260	126,560	256,820	22.7	14.4	18.5

Table 1.3.9: Projected Non Māori Population Aged 30-34 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	8,180	8,930	17,120	8,510	8,700	17,210	9,250	9,030	18,280	9,540	9,060	18,600	9,820	9,400	19,210	20.0	5.3	12.2
New Zealand	116,040	126,660	242,690	118,190	124,180	242,370	132,200	134,010	266,200	143,710	138,710	282,420	144,510	141,290	285,790	24.5	11.6	17.8

Table 1.3.10: Projected Non Māori Population Aged 35-39 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	9,500	10,460	19,960	8,350	8,890	17,250	8,490	8,600	17,090	9,500	9,210	18,710	9,800	9,240	19,040	3.2	-	11.7 - 4.6
New Zealand	129,200	140,820	270,010	117,580	127,670	245,250	118,330	125,130	243,460	135,710	137,610	273,320	147,330	142,400	289,730	14.0	1.1	7.3

Table 1.3.11: Projected Non Māori Population Aged 40-44 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	10,110	10,730	20,830	9,630	10,620	20,250	8,650	9,420	18,070	8,560	8,690	17,250	9,570	9,300	18,870	-	5.3	- 13.3 - 9.4
New Zealand	136,770	145,180	281,960	132,310	143,980	276,290	122,510	133,690	256,210	120,100	126,950	247,050	137,440	139,430	276,880	0.5	-	4.0 - 1.8

Table 1.3.12: Projected Non Māori Population Aged 45-49 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	10,150	10,540	20,690	9,970	10,570	20,540	9,710	10,620	20,330	8,670	9,400	18,070	8,590	8,670	17,270	-	15.4	- 17.7 - 16.5
New Zealand	132,360	137,450	269,810	134,800	143,200	278,000	131,610	142,740	274,340	122,310	133,380	255,680	119,970	126,730	246,710	-	9.4	- 7.8 - 8.6

Table 1.3.13: Projected Non Māori Population Aged 50-54 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	9,270	9,400	18,680	10,280	10,750	21,040	10,130	10,680	20,800	9,620	10,540	20,150	8,590	9,330	17,930	-	7.3	- 0.7 - 4.0
New Zealand	117,000	119,790	236,790	133,190	139,210	272,400	134,760	142,840	277,600	129,460	140,770	270,240	120,340	131,560	251,910	2.9	9.8	6.4

Table 1.3.14: Projected Non Māori Population Aged 55-59 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	8,740	9,010	17,750	9,400	9,680	19,080	10,020	10,480	20,500	10,030	10,640	20,670	9,540	10,510	20,050	9.2	16.6	13.0
New Zealand	110,010	112,070	222,080	117,050	121,110	238,170	127,660	133,710	261,370	132,020	140,920	272,940	126,980	139,020	266,000	15.4	24.0	19.8

Table 1.3.15: Projected Non Māori Population Aged 60-64 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	6,940	7,320	14,270	8,690	8,980	17,680	9,130	9,420	18,560	9,920	10,440	20,360	9,950	10,620	20,570	43.4	45.1	44.1
New Zealand	85,130	87,400	172,530	106,870	110,450	217,310	111,830	116,770	228,590	124,870	132,090	256,960	129,380	139,370	268,750	52.0	59.5	55.8

Table 1.3.16: Projected Non Māori Population Aged 65-69 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	5,940	6,230	12,170	7,240	7,610	14,840	8,470	8,920	17,370	8,940	9,300	18,250	9,730	10,330	20,060	63.8	65.8	64.8
New Zealand	70,210	73,980	144,180	86,880	90,720	177,580	103,140	108,210	211,350	108,050	114,360	222,420	121,010	129,590	250,600	72.4	75.2	73.8

Table 1.3.17: Projected Non Māori Population Aged 70--74 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	4,850	4,980	9,830	5,810	6,230	12,040	6,420	6,950	13,370	7,960	8,520	16,470	8,470	8,940	17,400	74.6	79.5	77.0
New Zealand	54,030	59,010	113,030	68,560	74,000	142,560	76,460	81,690	158,150	96,610	103,380	199,980	101,850	109,730	211,580	88.5	86.0	87.2

Table 1.3.18: Projected Non Māori Population Aged 75-79 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	3,930	4,460	8,390	4,200	4,660	8,860	4,870	5,460	10,320	5,660	6,390	12,040	7,060	7,880	14,930	79.6	76.7	77.9
New Zealand	45,760	53,650	99,400	47,690	54,630	102,320	57,160	64,360	121,520	67,620	75,070	142,700	86,080	95,520	181,610	88.1	78.0	82.7

Table 1.3.19: Projected Non Māori Population Aged 80-84 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	2,440	3,420	5,850	3,080	3,860	6,930	3,270	3,830	7,100	3,870	4,650	8,530	4,540	5,500	10,050	86.1	60.8	71.8
New Zealand	29,400	42,770	72,170	35,490	44,760	80,250	36,680	45,110	81,790	45,810	55,070	100,870	54,870	64,890	119,760	86.6	51.7	65.9

Table 1.3.20: Projected Non Māori Population Aged 85-89 Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	1,080	2,070	3,150	1,540	2,340	3,880	1,800	2,530	4,330	1,980	2,630	4,620	2,480	3,300	5,770	129.6	59.4	83.2
New Zealand	12,880	25,390	38,270	18,800	30,210	49,000	22,090	31,810	53,910	23,840	32,800	56,640	30,730	41,000	71,730	138.6	61.5	87.4

Table 1.3.21: Projected Non Māori Population Aged 90+ Years by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	410	1,070	1,480	610	1,350	1,950	780	1,610	2,400	1,060	1,850	2,910	1,210	2,000	3,210	195.1	86.9	116.9
New Zealand	100	230	330	140	340	470	190	380	560	230	430	670	280	450	740	180.0	95.7	124.2

Table 1.3.22: Projected Non Māori Population by Sex at 30 June 2007–26 (2006-Base)

	2006(Base)			2012			2016			2021			2026			% Population Change 2006-2026		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Waikato	135,540	140,670	276,200	143,200	147,400	290,620	146,170	150,260	296,460	149,170	153,120	302,270	151,480	155,400	306,860	11.8	10.5	11.1
New Zealand	1,742,500	1,817,700	3,560,300	1,861,800	1,925,300	3,787,100	1,924,200	1,984,000	3,908,200	1,996,900	2,053,700	4,050,600	2,062,700	2,118,500	4,181,200	18.4	16.5	17.4

NOTE: Owing to rounding, individual figures do not always sum to the totals shown.

These projections are: Medium Projection : Assuming Medium Fertility, Medium Mortality, and Medium Migration

These projections were derived in September 2010.

Source: Statistics New Zealand

Population Projections

Prepared for Ministry of Health

Ref No: ROM27819

Table 1.4.1: Population Distribution by Age: Males (2006 Census)

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Waikato	Number	12,297	13,080	14,205	13,155	11,616	9,660	10,206	11,322	11,964
	Percentage	7.0	8.0	9.0	8.0	7.0	6.0	6.0	7.0	7.0
New Zealand	Number	140,382	146,532	157,116	152,439	135,084	117,216	130,884	143,001	150,900
	Percentage	7.1	7.5	8.0	7.8	6.9	6.0	6.7	7.3	7.7

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Waikato	Number	11,661	10,308	9,621	7,524	6,348	5,148	4,044	2,436	1,500	166,095
	Percentage	7.0	6.0	6.0	5.0	4.0	3.0	2.0	1.0	1.0	
New Zealand	Number	143,055	124,311	115,224	88,338	72,114	55,878	46,356	29,124	17,667	1,965,618
	Percentage	7.3	6.3	5.9	4.5	3.7	2.8	2.4	1.5	0.9	

(1) All figures are for the census usually resident population.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables

Table 1.4.2: Population Distribution by Age: Females (2006 Census)

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Waikato	Number	12,090	12,462	13,224	12,906	11,247	10,002	11,313	12,681	12,999
	Percentage	7.0	7.0	8.0	7.0	6.0	6.0	7.0	7.0	8.0
New Zealand	Number	134,694	139,956	148,896	147,762	135,894	125,223	145,677	158,553	162,798
	Percentage	6.5	6.8	7.2	7.2	6.6	6.1	7.1	7.7	7.9

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Waikato	Number	12,312	10,755	9,927	7,935	6,606	5,364	4,698	3,435	3,138	173,094
	Percentage	7.0	6.0	6.0	5.0	4.0	3.0	3.0	2.0	2.0	
New Zealand	Number	150,369	128,421	118,347	91,278	76,434	61,056	54,858	43,113	39,000	2,062,329
	Percentage	7.3	6.2	5.7	4.4	3.7	3.0	2.7	2.1	1.9	

(1) All figures are for the census usually resident population.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables

Table 1.4.3: Population Distribution by Age: Total (2006 Census)

		0–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40–44
Waikato	Number	24,390	25,539	27,429	26,061	22,863	19,662	21,516	24,006	24,963
	Percentage	7.0	8.0	8.0	8.0	7.0	6.0	6.0	7.0	7.0
New Zealand	Number	275,076	286,488	306,009	300,198	270,978	242,439	276,561	301,554	313,698
	Percentage	6.8	7.1	7.6	7.5	6.7	6.0	6.9	7.5	7.8

		45–49	50–54	55–59	60–64	65–69	70–74	75–79	80–84	85+	Total
Waikato	Number	23,970	21,060	19,551	15,459	12,954	10,512	8,742	5,871	4,638	339,189
	Percentage	7.0	6.0	6.0	5.0	4.0	3.0	3.0	2.0	1.0	
New Zealand	Number	293,421	252,729	233,571	179,616	148,545	116,934	101,214	72,237	56,670	4,027,947
	Percentage	7.3	6.3	5.8	4.5	3.7	2.9	2.5	1.8	1.4	

(1) All figures are for the census usually resident population.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables

Table 1.4.4: Female Population by Ethnicity (2006 Census)

Age Group (years)	Māori				Non Māori				Total people stated**				Total people, not elsewhere included***				Total people	
	Waikato		New Zealand		Waikato		New Zealand		Waikato		New Zealand		Waikato		New Zealand		Waikato	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	3,849	33.6	32,355	25.1	7,599	66.4	96,579	74.9	11,448	94.7	128,934	2,513.3	639	5.3	5,760	112.3	12,090	5,130
5–9	3,873	32.4	32,544	24.2	8,067	67.6	101,832	75.8	11,940	95.8	134,376	2,387.6	522	4.2	5,577	99.1	12,462	5,628
10–14	3,855	30.4	32,379	22.6	8,808	69.6	110,901	77.4	12,663	95.8	143,280	2,404.8	561	4.2	5,613	94.2	13,224	5,958
15–19	3,657	29.5	29,502	20.8	8,724	70.5	112,365	79.2	12,381	95.9	141,867	2,212.9	528	4.1	5,895	92.0	12,909	6,411
20–24	2,754	25.9	22,434	17.4	7,887	74.1	106,608	82.6	10,641	94.6	129,042	2,284.3	606	5.4	6,849	121.2	11,247	5,649
25–29	2,469	25.9	20,529	17.2	7,062	74.1	98,604	82.8	9,531	95.3	119,133	2,629.9	471	4.7	6,090	134.4	10,002	4,530
30–34	2,454	22.7	21,384	15.3	8,361	77.3	118,290	84.7	10,815	95.6	139,674	2,708.4	498	4.4	6,000	116.3	11,310	5,157
35–39	2,349	19.4	20,790	13.6	9,744	80.6	131,550	86.4	12,093	95.3	152,340	2,719.9	588	4.6	6,210	110.9	12,684	5,601
40–44	2,319	18.6	19,905	12.7	10,131	81.4	136,773	87.3	12,450	95.8	156,678	2,537.7	549	4.2	6,120	99.1	12,999	6,174
45–49	2,004	16.9	16,926	11.7	9,849	83.1	127,536	88.3	11,853	96.3	144,462	2,564.1	459	3.7	5,907	104.8	12,312	5,634
50–54	1,542	15.0	12,597	10.2	8,754	85.0	110,826	89.8	10,296	95.8	123,423	2,447.4	456	4.2	4,998	99.1	10,752	5,043
55–59	1,176	12.4	9,762	8.6	8,325	87.6	104,037	91.4	9,501	95.7	113,799	2,414.6	423	4.3	4,548	96.5	9,927	4,713
60–64	804	10.6	6,717	7.6	6,813	89.4	81,159	92.4	7,617	96.0	87,876	2,267.2	318	4.0	3,405	87.8	7,935	3,876
65–69	615	9.7	5,310	7.2	5,715	90.3	68,244	92.8	6,330	95.9	73,554	2,197.0	270	4.1	2,880	86.0	6,603	3,348
70–74	435	8.4	3,471	5.9	4,722	91.6	55,368	94.1	5,157	96.1	58,839	2,066.7	207	3.9	2,217	77.9	5,364	2,847
75–79	294	6.5	2,190	4.1	4,215	93.5	50,607	95.9	4,509	96.0	52,797	2,154.1	189	4.0	2,058	84.0	4,698	2,451
80–84	126	3.8	1,074	2.6	3,168	96.2	40,437	97.4	3,294	95.9	41,511	2,151.9	138	4.0	1,605	83.2	3,435	1,929
85 and over	57	1.9	609	1.6	2,961	98.1	37,002	98.4	3,018	96.2	37,611	2,143.1	120	3.8	1,389	79.1	3,138	1,755
Total	34,626	20.9	290,469	14.7	130,917	79.1	1,688,736	85.3	165,543	95.6	1,979,205	2,418.4	7,551	4.4	83,124	101.6	173,094	81,840

All figures are for the census usually resident population.

* Percentages are calculated using 'Total People Stated' as the denominator. These will add up to >100 where individuals have identified as belonging to more than one ethnic group.

**Percentage for 'Total People Stated' and 'Total People not Included Elsewhere' uses 'Total Population as the Denominator'

***Total People not included elsewhere refers to all those who did not state an ethnicity

Table 1.4.5: Male Population by Ethnicity (2006 Census)

Age Group (years)	Māori				Non Māori				Total people stated**				Total people, not elsewhere included***				Total people	
	Waikato		New Zealand		Waikato		New Zealand		Waikato		New Zealand		Waikato		New Zealand		Waikato	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	4,131	35.2	34,071	25.3	7,596	64.8	100,671	74.7	11,727	95.3	134,742	2,626.5	573	4.7	5,640	109.9	12,300	5,130
5–9	4,125	33.0	34,230	24.2	8,391	67.0	106,974	75.8	12,516	95.7	141,204	2,509.0	561	4.3	5,331	94.7	13,080	5,628
10–14	4,197	30.7	34,347	22.7	9,468	69.3	117,129	77.3	13,665	96.2	151,476	2,542.4	540	3.8	5,637	94.6	14,208	5,958
15–19	3,474	27.7	29,031	19.9	9,087	72.3	117,156	80.1	12,561	95.5	146,187	2,280.3	591	4.5	6,252	97.5	13,152	6,411
20–24	2,544	23.4	20,337	16.0	8,346	76.6	107,127	84.0	10,890	93.8	127,464	2,256.4	726	6.3	7,623	134.9	11,616	5,649
25–29	2,214	24.4	17,577	15.9	6,864	75.6	92,970	84.1	9,078	94.0	110,547	2,440.3	579	6.0	6,669	147.2	9,660	4,530
30–34	2,103	21.7	18,075	14.5	7,593	78.3	106,272	85.5	9,696	95.0	124,347	2,411.2	513	5.0	6,540	126.8	10,206	5,157
35–39	1,992	18.5	17,808	13.1	8,760	81.5	118,554	86.9	10,752	94.9	136,362	2,434.6	570	5.0	6,639	118.5	11,325	5,601
40–44	1,977	17.3	17,367	12.0	9,435	82.7	126,945	88.0	11,412	95.4	144,312	2,337.4	552	4.6	6,588	106.7	11,964	6,174
45–49	1,692	15.2	14,979	10.9	9,462	84.8	122,079	89.1	11,154	95.7	137,058	2,432.7	507	4.3	5,994	106.4	11,658	5,634
50–54	1,335	13.6	11,595	9.7	8,505	86.4	107,670	90.3	9,840	95.5	119,265	2,365.0	465	4.5	5,046	100.1	10,308	5,043
55–59	1,011	10.9	8,868	8.0	8,235	89.1	101,742	92.0	9,246	96.1	110,610	2,346.9	375	3.9	4,614	97.9	9,621	4,713
60–64	762	10.5	6,096	7.2	6,474	89.5	78,822	92.8	7,236	96.1	84,918	2,190.9	288	3.8	3,420	88.2	7,527	3,876
65–69	594	9.7	4,848	7.0	5,505	90.3	64,494	93.0	6,099	96.1	69,342	2,071.1	252	4.0	2,769	82.7	6,348	3,348
70–74	387	7.9	3,039	5.7	4,539	92.1	50,718	94.3	4,926	95.7	53,757	1,888.2	222	4.3	2,121	74.5	5,145	2,847
75–79	180	4.6	1,620	3.6	3,696	95.4	42,957	96.4	3,876	95.8	44,577	1,818.7	168	4.2	1,782	72.7	4,044	2,451
80–84	93	4.0	693	2.5	2,256	96.0	27,219	97.5	2,349	96.4	27,912	1,447.0	87	3.6	1,212	62.8	2,436	1,929
85 and over	33	2.3	279	1.7	1,401	97.7	16,599	98.3	1,434	95.6	16,878	961.7	66	4.4	789	45.0	1,500	1,755
Total	32,850	20.7	274,860	14.6	125,610	79.3	1,606,098	85.4	158,460	95.4	1,880,958	2,298.3	7,638	4.6	84,660	103.4	166,098	81,840

All figures are for the census usually resident population.

* Percentages are calculated using 'Total People Stated' as the denominator. These will add up to >100 where individuals have identified as belonging to more than one ethnic group.

**Percentage for 'Total People Stated' and 'Total People not Included Elsewhere' uses 'Total Population as the Denominator'

***Total People not included elsewhere refers to all those who did not state an ethnicity

Table 1.4.6: Total Population by Ethnicity (2006 Census)

Age Group (years)	Māori				Non Māori				Total people stated**				Total people, not elsewhere included***				Total people	
	Waikato		New Zealand		Waikato		New Zealand		Waikato		New Zealand		Waikato		New Zealand		Waikato	New Zealand
	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Percentage*	Number	Number
0–4	7,977	34.4	66,426	25.2	15,201	65.6	197,250	74.8	23,178	95.0	263,676	95.9	1,212	5.0	11,400	4.1	24,390	275,079
5–9	7,995	32.7	66,774	24.2	16,464	67.3	208,806	75.8	24,459	95.8	275,580	96.2	1,083	4.2	10,908	3.8	25,542	286,488
10–14	8,055	30.6	66,726	22.6	18,273	69.4	228,030	77.4	26,328	96.0	294,756	96.3	1,101	4.0	11,253	3.7	27,432	306,009
15–19	7,131	28.6	58,533	20.3	17,811	71.4	229,521	79.7	24,942	95.7	288,054	96.0	1,116	4.3	12,144	4.0	26,061	300,198
20–24	5,295	24.6	42,771	16.7	16,236	75.4	213,735	83.3	21,531	94.2	256,506	94.7	1,332	5.8	14,472	5.3	22,863	270,978
25–29	4,683	25.2	38,106	16.6	13,926	74.8	191,577	83.4	18,609	94.6	229,683	94.7	1,050	5.3	12,759	5.3	19,662	242,442
30–34	4,554	22.2	39,459	14.9	15,954	77.8	224,562	85.1	20,508	95.3	264,021	95.5	1,008	4.7	12,540	4.5	21,519	276,561
35–39	4,338	19.0	38,598	13.4	18,507	81.0	250,104	86.6	22,845	95.2	288,702	95.7	1,161	4.8	12,852	4.3	24,006	301,554
40–44	4,296	18.0	37,272	12.4	19,566	82.0	263,718	87.6	23,862	95.6	300,990	95.9	1,098	4.4	12,708	4.1	24,963	313,698
45–49	3,699	16.1	31,908	11.3	19,305	83.9	249,612	88.7	23,004	96.0	281,520	95.9	966	4.0	11,901	4.1	23,973	293,421
50–54	2,880	14.3	24,192	10.0	17,256	85.7	218,496	90.0	20,136	95.6	242,688	96.0	924	4.4	10,044	4.0	21,060	252,732
55–59	2,187	11.7	18,630	8.3	16,563	88.3	205,779	91.7	18,750	95.9	224,409	96.1	801	4.1	9,162	3.9	19,548	233,574
60–64	1,566	10.5	12,816	7.4	13,287	89.5	159,975	92.6	14,853	96.1	172,791	96.2	609	3.9	6,825	3.8	15,462	179,616
65–69	1,209	9.7	10,158	7.1	11,220	90.3	132,741	92.9	12,429	95.9	142,899	96.2	522	4.0	5,646	3.8	12,954	148,548
70–74	822	8.2	6,510	5.8	9,258	91.8	106,086	94.2	10,080	95.9	112,596	96.3	432	4.1	4,338	3.7	10,512	116,934
75–79	477	5.7	3,807	3.9	7,908	94.3	93,567	96.1	8,385	95.9	97,374	96.2	357	4.1	3,840	3.8	8,745	101,214
80–84	222	3.9	1,764	2.5	5,421	96.1	67,659	97.5	5,643	96.1	69,423	96.1	225	3.8	2,814	3.9	5,871	72,240
85 and over	90	2.0	888	1.6	4,362	98.0	53,604	98.4	4,452	96.0	54,492	96.2	186	4.0	2,178	3.8	4,638	56,670
Total	67,476	20.8	565,326	14.6	256,524	79.2	3,294,837	85.4	324,000	95.5	3,860,163	95.8	15,189	4.5	167,784	4.2	339,192	4,027,947

All figures are for the census usually resident population.

* Percentages are calculated using 'Total People Stated' as the denominator. These will add up to >100 where individuals have identified as belonging to more than one ethnic group.

**Percentage for 'Total People Stated' and 'Total People not Included Elsewhere' uses 'Total Population as the Denominator

***Total People not included elsewhere refers to all those who did not state an ethnicity

Table 1.4.7: Population Distribution by Birthplace (2006 Census)

		Birthplace										
Location	Unit	New Zealand	Australia(1)	Pacific Islands(2)	United Kingdom and Ireland	Europe (excluding UK and Ireland)	North America	Asia	Other	Total Overseas	Not elsewhere included(3)	Total
Waikato	Number	269,898	5,127	4,464	17,667	4,968	1,794	11,928	6,039	51,984	17,304	339,192
	Percentage	80.0	2.0	1.0	5.0	1.0	1.0	4.0	2.0	15.0	5.0	
New Zealand	Number	2,960,217	62,742	135,852	251,688	68,067	26,940	251,130	83,121	879,546	188,187	4,027,947
	Percentage	73.5	1.6	3.4	6.2	1.7	0.7	6.2	2.1	21.8	4.7	

All figures are for the census usually resident population.

(1) Includes Australian Territories.

(2) Includes Melanesia, Micronesia and Polynesia. (3)

includes Inadequately Described and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.1: Legal Marital Status (2006 Census)

		Legal Marital Status						
Location	Unit	Never married and never joined in a civil union	Married (not separated)	Separated(2)	Divorced	Widowed or bereaved civil union partner	Not elsewhere included(3)	Total
Waikato	Number	80,235	117,543	9,285	18,288	15,093	21,384	261,831
	Percentage	30.6	44.9	3.6	7.0	5.8	8.2	
New Zealand	Number	991,323	1,414,533	108,225	222,138	174,813	249,336	3,160,371
	Percentage	31.4	44.8	3.4	7.0	5.5	7.9	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Includes people who are still legally married but permanently separated. This also applies to civil unions.

(3) Includes Joined in a Civil Union (Not Separated), Response Unidentifiable and Not Stated. For further

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.2: Social Marital Status (2006 Census)

		Social Marital Status											
Location	Unit	Partnered				Non-partnered						Not stated	Total
		Partnered, not further defined ⁽²⁾	Spouse ⁽³⁾	Other partnership ⁽⁴⁾	Total partnered	Non-partnered, not further defined	Non-partnered, never married and never joined in a civil union	Non-partnered, separated ⁽⁵⁾	Non-partnered, divorced	Non-partnered, widowed or bereaved civil union partner	Total non-partnered		
Waikato	Number	4,074	115,053	32,325	151,452	7,149	54,876	6,708	11,145	12,651	92,526	17,853	261,828
	Percentage	2.7	76.0	21.3	62.1	7.7	59.3	7.3	12.1	13.7	37.9		
New Zealand	Number	48,177	1,381,293	379,956	1,809,426	86,733	693,597	78,960	137,205	147,381	1,143,873	207,075	3,160,371
	Percentage	2.7	76.3	21.0	61*	7.6	60.6	6.9	12.0	12.9	39*		

* % of total - 'not stated'

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Includes Partnered, Not Further Defined and Civil Union Partner. For further information, refer to the social marital status variable on the 2006 Census Information About Data web page: <http://www.stats.govt.nz/census/>.

(3) Applies only to married people, not those in civil unions.

(4) Living as Married: ie in a consensual union, de facto relationship etc.

(5) Includes people who are still legally married but permanently separated. Includes civil unions.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.3: Family Type (2006 Census)

		Family Type			
Location	Unit	Couple without children	Couple with child(ren)	One parent with child(ren)	Total
Waikato	Number	33,339	54,243	24,384	111,966
	Percentage	29.8	48.5	21.8	
New Zealand	Number	425,973	447,894	193,635	1,067,502
	Percentage	39.9	42.0	18.1	

(1) All figures are for families in private occupied dwellings.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.4: Household Composition (2006 Census)

		Household composition						
Location	Unit	One-family household (with or without other people)	Two-family household (with or without other people)	Three-or-more family household (with or without other people)	Other multiperson household	One-person household	Household composition unidentifiable	Total
Waikato	Number	83,859	2,727	153	5,904	27,462	2,796	122,901
	Percentage	68.2	2.2	0.1	4.8	22.3	2.3	
New Zealand	Number	985,542	37,083	2,526	72,657	328,299	28,065	1,454,175
	Percentage	67.8	2.6	0.2	5.0	22.6	1.9	

(1) All figures are for households in private occupied dwellings.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.5: Number of Languages Spoken (2006 Census)

		Number of Languages Spoken								
Location	Unit	None	One	Two	Three	Four	Five	Six	Not elsewhere included(2)	Total
Waikato	Number	9,567	275,067	102,522	13,890	2,460	561	150	28,869	433,086
	Percentage	2.2	63.5	23.7	3.2	0.6	0.1	0.0	6.7	
New Zealand	Number	75,198	3,083,904	562,446	83,400	19,281	5,055	1,476	197,190	4,027,947
	Percentage	1.9	76.6	14.0	2.1	0.5	0.1	0.0	4.9	

(1) All figures are for the census usually resident population.

(2) Includes Response Unidentifiable, Response Outside Scope and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.6: Number of children born by age group of mother (2006 Census)

Location	Unit	Age Group (Years) of Mother									
		15–19		20–24		25–29		30–34		35–39	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Waikato	No children	11,025	32.4	7,542	22.2	4,458	13.1	2,706	8.0	1,809	5.3
	One child	444	3.3	1,575	11.7	1,863	13.9	2,121	15.8	1,719	12.8
	Two children	51	0.2	726	2.4	1,605	5.4	2,988	10.0	4,005	13.4
	Three children	9	0.0	159	0.7	711	3.1	1,518	6.6	2,370	10.3
	Four children	3	0.0	42	0.4	252	2.1	579	4.9	933	7.8
	Five children	-	-	9	0.2	72	1.5	222	4.5	348	7.0
	Six or more children	3	0.1	9	0.2	48	1.1	162	3.6	297	6.6
	Object to answering	216	5.3	204	5.0	222	5.4	285	7.0	372	9.1
	Not elsewhere included(2)	1,155	12.2	981	10.3	777	8.2	732	7.7	828	8.7
	Total	12,909	9.5	11,247	8.3	10,002	7.4	11,313	8.4	12,681	9.4
New Zealand	No children	127,560	27.7	97,428	21.1	65,100	14.1	46,014	10.0	28,836	6.3
	One child	4,182	2.4	15,777	8.9	21,531	12.2	29,202	16.5	25,065	14.1
	Two children	609	0.2	6,396	1.7	16,230	4.3	34,215	9.1	50,463	13.5
	Three children	69	0.0	1,581	0.6	6,543	2.6	14,490	5.7	24,834	9.8
	Four children	24	0.0	360	0.3	2,202	1.8	5,445	4.5	9,258	7.6
	Five children	9	0.0	72	0.1	717	1.5	1,989	4.0	3,504	7.1
	Six or more children	36	0.1	72	0.2	348	0.8	1,266	3.0	2,613	6.1
	Object to answering	2,190	4.8	2,376	5.2	2,538	5.6	3,570	7.8	4,446	9.7
	Not elsewhere included(2)	13,083	11.4	11,832	10.3	10,017	8.8	9,486	8.3	9,534	8.3
	Total	147,762	9.0	135,891	8.3	125,226	7.6	145,674	8.9	158,550	9.7

Location	Unit	Age Group (Years) of Mother									
		40–44		45–49		50–54		55–59		60–64	
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage
Waikato	No children	1,464	4.3	1,245	3.7	912	2.7	684	2.0	507	1.5
	One child	1,338	10.0	1,137	8.5	831	6.2	693	5.2	438	3.3
	Two children	3,990	13.4	3,699	12.4	3,321	11.1	3,087	10.3	2,121	7.1
	Three children	2,775	12.0	2,922	12.7	2,715	11.8	2,577	11.2	2,109	9.2
	Four children	1,284	10.8	1,344	11.3	1,194	10.0	1,173	9.8	1,152	9.7
	Five children	495	10.0	447	9.0	399	8.1	399	8.1	456	9.2
	Six or more children	402	8.9	399	8.8	312	6.9	312	6.9	360	8.0
	Object to answering	468	11.4	429	10.5	411	10.0	393	9.6	306	7.5
	Not elsewhere included(2)	783	8.2	687	7.2	663	7.0	609	6.4	483	5.1
	Total	12,999	9.6	12,312	9.1	10,755	7.9	9,930	7.3	7,935	5.9
New Zealand	No children	22,218	4.8	18,129	3.9	13,647	3.0	10,785	2.3	7,362	1.6
	One child	20,712	11.7	16,119	9.1	11,901	6.7	9,288	5.2	5,697	3.2
	Two children	53,691	14.4	48,369	12.9	41,979	11.2	38,571	10.3	26,340	7.0
	Three children	31,185	12.3	32,211	12.7	29,451	11.6	28,899	11.4	23,145	9.1
	Four children	12,384	10.2	13,512	11.1	12,261	10.1	12,141	10.0	11,604	9.6
	Five children	4,569	9.3	4,647	9.4	4,116	8.4	4,221	8.6	4,431	9.0
	Six or more children	3,381	7.9	3,360	7.9	2,871	6.7	2,910	6.8	3,738	8.8
	Object to answering	5,157	11.3	5,001	10.9	4,458	9.8	4,476	9.8	3,351	7.3
	Not elsewhere included(2)	9,495	8.3	9,021	7.9	7,734	6.8	7,056	6.2	5,613	4.9
	Total	162,798	9.9	150,369	9.2	128,421	7.8	118,347	7.2	91,278	5.6

		Age Group (Years) of Mother										
Location	Unit	65–69		70–74		75–79		80–84		85 and over		Total
		Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number	Percentage	Number
Waikato	No children	411	1.2	351	1.0	315	0.9	285	0.8	297	0.9	34,008
	One child	315	2.3	219	1.6	246	1.8	213	1.6	264	2.0	13,416
	Two children	1,416	4.7	918	3.1	780	2.6	606	2.0	555	1.9	29,871
	Three children	1,695	7.4	1,203	5.2	993	4.3	690	3.0	591	2.6	23,043
	Four children	1,116	9.4	990	8.3	855	7.2	540	4.5	480	4.0	11,928
	Five children	525	10.6	558	11.3	456	9.2	318	6.4	240	4.9	4,947
	Six or more children	501	11.1	567	12.5	540	12.0	357	7.9	246	5.4	4,518
	Object to answering	225	5.5	189	4.6	144	3.5	114	2.8	111	2.7	4,092
	Not elsewhere included(2)	396	4.2	366	3.9	372	3.9	312	3.3	351	3.7	9,492
	Total	6,606	4.9	5,364	4.0	4,698	3.5	3,435	2.5	3,138	2.3	135,315
New Zealand	No children	5,661	1.2	4,662	1.0	4,872	1.1	4,347	0.9	4,590	1.0	461,217
	One child	4,038	2.3	3,216	1.8	3,297	1.9	3,252	1.8	3,861	2.2	177,138
	Two children	17,883	4.8	11,928	3.2	10,374	2.8	8,787	2.3	8,169	2.2	373,998
	Three children	19,230	7.6	13,953	5.5	11,799	4.7	8,847	3.5	7,053	2.8	253,290
	Four children	12,048	9.9	10,335	8.5	8,883	7.3	6,072	5.0	4,707	3.9	121,236
	Five children	5,169	10.5	5,403	11.0	4,671	9.5	3,294	6.7	2,385	4.8	49,188
	Six or more children	4,914	11.5	5,580	13.1	5,364	12.6	3,615	8.5	2,529	5.9	42,594
	Object to answering	2,541	5.6	1,869	4.1	1,542	3.4	1,161	2.5	1,044	2.3	45,717
	Not elsewhere included(2)	4,947	4.3	4,116	3.6	4,056	3.5	3,744	3.3	4,668	4.1	114,399
	Total	76,434	4.7	61,056	3.7	54,858	3.3	43,113	2.6	39,000	2.4	1,638,783

(1) All figures are for the female census usually resident population aged 15 years and over.

(2) Includes Response Unidentifiable and Not Stated.

C= Confidential

Table 1.5.7: Individuals engaged in unpaid activities: Male (2006 Census)

		Unpaid Activity: Male									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Waikato	Number	16,119	92,772	31,614	7,743	13,827	7,683	16,779	112,728	13,785	126,513
	Percentage	12.7	73.3	25.0	6.1	10.9	6.1	13.3			
New Zealand	Number	196,767	1,122,597	372,858	86,427	155,106	88,233	188,835	1,362,123	159,465	1,521,591
	Percentage	12.9	73.8	24.5	5.7	10.2	5.8	12.4			

(1) All figures are for the census usually resident population aged 15 years and over

(2) Includes all of the people who stated each unpaid activity, whether as their only unpaid activity or as one of several unpaid activities. Where a person reported more than one unpaid activity, they have been counted in each applicable group.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.8: Individuals engaged in unpaid activities: Female (2006 Census)

		Unpaid Activity: Female									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Waikato	Number	9,480	110,202	45,300	12,552	27,813	15,144	22,716	122,217	13,098	135,318
	Percentage	7.0	81.4	33.5	9.3	20.6	11.2	16.8			
New Zealand	Number	124,485	1,324,236	525,054	134,799	305,037	170,472	248,406	1,480,929	157,854	1,638,783
	Percentage	7.6	80.8	32.0	8.2	18.6	10.4	15.2			

(1) All figures are for the census usually resident population aged 15 years and over

(2) Includes all of the people who stated each unpaid activity, whether as their only unpaid activity or as one of several unpaid activities. Where a person reported more than one unpaid activity, they have been counted in each applicable group.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.5.9: Individuals engaged in unpaid activities: Total (2006 Census)

		Unpaid Activity: Total									
Location	Unit	No activities	Household work, cooking, repairs, gardening, etc, for own household	Looking after a child who is a member of own household	Looking after a member of own household who is ill or has a disability	Looking after a child who does not live in own household	Helping someone who is ill or has a disability who does not live in own household	Other helping or voluntary work for or through any organisation, group or marae	Total people stated	Total people, not elsewhere included(3)	Total people
Waikato	Number	25,596	202,974	76,911	20,295	41,640	22,827	39,495	234,945	26,883	261,831
	Percentage	9.8	77.5	29.4	7.8	15.9	8.7	15.1			
New Zealand	Number	321,252	2,446,833	897,915	221,226	460,143	258,705	437,241	2,843,052	317,319	3,160,374
	Percentage	10.2	77.4	28.4	7.0	14.6	8.2	13.8			

(1) All figures are for the census usually resident population aged 15 years and over

(2) Includes all of the people who stated each unpaid activity, whether as their only unpaid activity or as one of several unpaid activities. Where a person reported more than one unpaid activity, they have been counted in each applicable group.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.1: Highest Qualification Gained (2006 Census)

Location	Unit	Highest qualification						
		No qualification	Level 1 certificate gained at school	Level 2 certificate gained at school	Level 3 or 4 certificate gained at school	Overseas secondary school qualification	Level 1, 2 or 3 certificate gained post-school	Level 4 certificate gained post-school
Waikato	Number	68,154	34,962	21,660	12,048	10,098	11,007	25,152
	Percentage	26.0	13.4	8.3	4.6	3.9	4.2	9.6
New Zealand	Number	708,432	386,073	263,850	170,055	172,590	128,619	286,599
	Percentage	22.4	12.2	8.3	5.4	5.5	4.1	9.1

Location	Unit	Highest qualification							Total
		Level 5 diploma	Level 6 diploma	Bachelor degree and level 7 qualifications	Post-graduate and honours degree	Masters degree	Doctorate degree	Not elsewhere included(3)	
Waikato	Number	8,250	12,588	21,117	3,396	3,684	1,293	28,425	261,828
	Percentage	3.2	4.8	8.1	1.3	1.4	0.5	10.9	
New Zealand	Number	110,496	157,869	315,846	55,458	59,703	16,770	328,014	3,160,371
	Percentage	3.5	5.0	10.0	1.8	1.9	0.5	10.4	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) In 2006, Highest Qualification data has been output in two different ways. The categories in this table show Highest Qualification in a way that can be compared with data from previous census.

(3) Includes Highest Qualification Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.2: Total Personal Income (2006 Census)

Location	Unit	Total personal income							
		Loss	Zero income	\$1–\$5,000	\$5,001– \$10,000	\$10,001– \$15,000	\$15,001– \$20,000	\$20,001– \$25,000	\$25,001– \$30,000
Waikato	Number	1,440	11,079	17,652	19,455	31,368	22,182	18,795	18,420
	Percentage	0.6	4.2	6.7	7.4	12.0	8.5	7.2	7.0
New Zealand	Number	17,355	145,053	221,166	226,797	355,899	260,082	219,657	215,301
	Percentage	0.5	4.6	7.0	7.2	11.3	8.2	7.0	6.8

Location	Unit	Total personal income							Total
		\$30,001– \$35,000	\$35,001– \$40,000	\$40,001– \$50,000	\$50,001– \$70,000	\$70,001– \$100,000	\$100,001 or more	Not stated	
Waikato	Number	17,187	16,812	20,586	22,542	9,423	7,356	27,534	261,828
	Percentage	6.6	6.4	7.9	8.6	3.6	2.8	10.5	
New Zealand	Number	201,300	202,770	262,299	281,157	125,118	105,525	320,892	3,160,371
	Percentage	6.4	6.4	8.3	8.9	4.0	3.3	10.2	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Total personal income relates to the 12 months ending 31 March 2006.

Note: This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.3: Sources of Personal Income (2006 Census)

Sources of Personal Income								
Location	Unit	No source of income during that time	Wages, salary, commissions, bonuses etc	Self-employment or business	Interest, dividends, rent, other investments	Payments from a work accident insurer	NZ Superannuation or veterans pension	Other Superannuation, pensions, annuities
Waikato	Number	13,470	141,996	44,943	57,216	4,353	38,652	6,027
	Percentage	5.1	54.2	17.2	21.9	1.7	14.8	2.3
New Zealand	Number	175,680	1,775,343	492,024	714,732	45,114	439,686	83,265
	Percentage	5.6	56.2	15.6	22.6	1.4	13.9	2.6

Sources of Personal Income										
Location	Unit	Unemployment benefit	Sickness benefit	Domestic purposes benefit	Invalids benefit	Student allowance	Other government benefits, payments or pension	Other sources of income	Not stated	Total
Waikato	Number	8,040	5,835	8,901	7,425	5,394	8,034	5,382	16,653	261,828
	Percentage	3.1	2.2	3.4	2.8	2.1	3.1	2.1	6.4	
New Zealand	Number	92,169	70,554	93,090	75,357	64,284	96,357	66,411	198,135	3,160,371
	Percentage	2.9	2.2	2.9	2.4	2.0	3.0	2.1	6.3	

(1) All figures are for the census usually resident population aged 15 years and over.

(2) Sources of personal income relates to the 12 months ending 7 March 2006.

(3) Includes all of the people who stated each source of personal income, whether as their only source of personal income or as one of several sources of personal income.

Where a person reported more than one source of personal income, they have been counted in each applicable group.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.4: Work and Labour Force Status (2006 Census)

Work and Labour Force Status (2006 Census)									
Location	Unit	Employed full time	Employed part time	Total employed	Unemployed	Total labour force	Not in the labour force	Work and labour force status unidentifiable	Total
Waikato	Number	14,664	4,620	19,281	1,497	20,781	10,512	1,518	32,808
	Percentage	76.1	24.0	92.8	7.2	63.3	32.0	4.6	
New Zealand	Number	1,531,020	454,758	1,985,775	106,497	2,092,275	961,788	106,311	3,160,371
	Percentage	77.1	22.9	94.9	5.1	66.2	30.4	3.4	

(1) All figures are for the census usually resident population aged 15 years and over.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.5: Occupation - ANZSCO V1.0 Major Group (2006 Census)

Location	Unit	Occupation (ANZSCO)									
		Managers	Professionals	Technicians and trades workers	Community and personal service workers	Clerical and administrative workers	Sales workers	Machinery operators and drivers	Labourers	Not elsewhere included(3)	Total
Waikato	Number	31,854	26,199	20,640	11,880	18,324	14,439	9,708	20,610	9,345	162,993
	Percentage	19.5	16.1	12.7	7.3	11.2	8.9	6.0	12.6	5.7	
New Zealand	Number	340,530	374,328	241,857	156,468	240,813	186,057	114,324	218,991	112,404	1,985,775
	Percentage	17.1	18.9	12.2	7.9	12.1	9.4	5.8	11.0	5.7	

(1) All figures are for the employed census usually resident population aged 15 years and over.

(2) Australian and New Zealand Standard Classification of Occupations (ANZSCO V1.0).

(3) Includes Response Unidentifiable, Response Outside Scope and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.6: Access to Telecommunications (2006 Census)

Location	Unit	Type of Telecommunication							
		Access to a cellphone / mobile phone	Access to a telephone	Access to a fax machine	Access to the Internet	No access to telecommunication systems	Total households stated	Total households, not elsewhere included(3)	Total households
Waikato	Number	87,324	104,094	31,566	66,261	2,976	117,288	5,613	122,901
	Percentage	71.1	84.7	25.7	53.9	2.4	95.4	4.6	
New Zealand	Number	1,034,529	1,277,325	362,040	843,738	28,407	1,393,707	60,468	1,454,175
	Percentage	71.1	87.8	24.9	58.0	2.0	95.8	4.2	

(1) All figures are for households in private occupied dwellings.

(2) Households reporting more than one means of access to telecommunication systems have been counted in each stated category. Therefore the total number of responses in the table will be greater than the total number of households.

(3) Includes Response Unidentifiable and Not Stated.

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.7: Number of Motor Vehicles per Household (2006 Census)

Location	Unit	Number of Motor Vehicles					
		No motor vehicle	One motor vehicle	Two motor vehicles	Three or more motor vehicles	Not elsewhere included(2)	Total
Waikato	Number	8,421	44,409	45,333	19,245	5,490	122,901
	Percentage	6.9	36.1	36.9	15.7	4.5	
New Zealand	Number	112,758	527,844	531,627	222,204	59,745	1,454,175
	Percentage	7.8	36.3	36.6	15.3	4.1	

(1) All figures are for households in private occupied dwellings.

(2) Includes Response Unidentifiable and Not Stated.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Table 1.6.8: Housing Tenure (2006 Census)

Housing Tenure					
Dwelling owned or partly owned by usual resident(s)					
Location	Unit	Mortgage arrangements not further defined	Mortgage payments made by owner/ usual resident(s)	Mortgage payments not made by owner/ usual resident(s)	Total, dwelling owned or partly owned by usual resident(s)
Waikato	Number	2,442	32,487	26,694	61,623
	Percentage	4.0	52.7	43.3	
New Zealand	Number	26,529	405,267	312,162	743,955
	Percentage	3.6	54.5	42.0	

Housing Tenure					
Dwelling not owned by usual resident(s)					
Location	Unit	Rental arrangements not further defined	Rent payments made by usual residents	Rent payments not made by usual residents	Total, dwelling not owned or partly owned by usual resident(s)
Waikato	Number	564	32,733	6,717	40,014
	Percentage	1.4	81.8	16.8	
New Zealand	Number	6,315	388,275	57,378	451,965
	Percentage	1.4	85.9	12.7	

Housing Tenure							
Dwelling held in a family trust by usual resident(s) ⁽²⁾							
Location	Unit	Mortgage arrangements not further defined	Mortgage payments made by usual residents	Mortgage payments not made by usual residents	Total, dwelling held in a family trust by usual resident(s)	Not elsewhere included ⁽³⁾	Total
Waikato	Number	1,041	5,928	6,105	13,071	8,190	122,901
	Percentage	8.0	45.4	46.7			
New Zealand	Number	13,386	72,828	81,711	167,925	90,333	
	Percentage	8.0	43.4	48.7			

(1) 'Tenure of household' refers to the nature of the occupancy of a household in a private dwelling, at the time of the survey. It does not refer to the tenure of the land on which the dwelling is situated.

(2) Information on family trusts was first collected in 2006.

(3) Includes Response Unidentifiable and Not Stated

Note: This data has been randomly rounded to protect confidentiality.

Individual figures may not add up to totals, and values for the same data may vary in different tables.

Appendix 2

Mortality Tables (2006-2008)

NOTE A: Counts less than 5 have ASR's presented as "0.0" or "#N/A"

NOTE B: There are two comparisons being made in the following tables

1. Māori Age-Standardised Rate against non-Māori Age-Standardised Rate
within the District Health Board:

Māori ASR statistically significantly higher than non-Māori ASR within DHB

Māori ASR statistically significantly lower than non-Māori ASR within DHB

2. District Health Board Age-Standardised Rate
against New Zealand Age-Standardised Rate:

DHB ASR statistically significantly higher than national ASR

DHB ASR statistically significantly lower than national ASR

Key:

DHB = District Health Board

ASR = Age-Standardised Rate

Table 2.1.1: Avoidable mortality, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	222.9	86.4 - 359.5	80.9	40.9 - 120.9	102.2	62.3 - 142.2
	Male	337.6	163.0 - 512.2	140.2	84.8 - 195.6	166.6	114.5 - 218.8
	Total	277.3	167.8 - 386.9	110.3	76.1 - 144.4	133.9	101.2 - 166.7
New Zealand	Female	214.6	168.7 - 260.5	74.2	63.5 - 84.8	88.9	78.2 - 99.6
	Male	308.9	251.4 - 366.5	122.9	109.1 - 136.7	142.4	128.6 - 156.1
	Total	259.8	223.3 - 296.3	98.1	89.4 - 106.8	115.1	106.4 - 123.8

Table 2.1.2: All cardiovascular disease mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	94.1	9.3 - 178.8	36.1	20.5 - 51.7	43.5	26.3 - 60.7
	Male	189.5	58.4 - 320.7	66.0	42.1 - 89.9	80.3	54.1 - 106.4
	Total	137.6	62.2 - 212.9	50.4	36.3 - 64.4	61.0	45.6 - 76.4
New Zealand	Female	91.0	62.8 - 119.2	35.5	31.1 - 39.9	39.9	35.3 - 44.5
	Male	154.4	113.5 - 195.3	61.8	55.2 - 68.5	69.5	62.5 - 76.4
	Total	120.9	96.7 - 145.1	48.0	44.1 - 51.9	54.0	49.9 - 58.1

Table 2.1.3: Ischaemic heart disease mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	96.4	38.6 - 154.3	35.6	26.0 - 45.1	43.5	32.4 - 54.6
	Male	247.5	146.7 - 348.3	92.4	73.4 - 111.4	110.2	89.7 - 130.6
	Total	164.4	109.1 - 219.6	62.4	52.0 - 72.8	75.0	63.6 - 86.4
New Zealand	Female	100.9	81.1 - 120.8	35.4	32.8 - 38.1	40.3	37.4 - 43.1
	Male	215.7	183.2 - 248.1	83.4	78.2 - 88.5	93.7	88.4 - 99.1
	Total	154.3	136.0 - 172.6	58.0	55.2 - 60.8	65.5	62.5 - 68.4

Table 2.1.4: Stroke mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	41.2	3.8 - 78.6	24.0	15.3 - 32.6	26.4	17.6 - 35.2
	Male	45.5	1.8 - 89.3	21.5	13.6 - 29.5	24.6	15.8 - 33.4
	Total	43.1	14.7 - 71.4	23.1	17.2 - 29.0	25.8	19.6 - 32.1
New Zealand	Female	42.1	29.2 - 54.9	23.6	21.3 - 25.9	25.3	22.9 - 27.6
	Male	36.6	23.1 - 50.1	24.6	22.0 - 27.2	25.9	23.3 - 28.5
	Total	40.1	30.7 - 49.4	24.3	22.6 - 26.0	25.8	24.0 - 27.5

Table 2.1.5: All cancer mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	115.0	19.6 - 210.4	58.2	32.2 - 84.2	65.5	39.8 - 91.2
	Male	112.8	13.0 - 212.6	72.9	43.9 - 102.0	77.2	49.6 - 104.9
	Total	113.7	45.0 - 182.3	64.8	45.4 - 84.2	70.7	51.9 - 89.5
New Zealand	Female	110.5	78.4 - 142.6	55.1	47.9 - 62.3	59.9	52.8 - 67.0
	Male	113.3	78.5 - 148.0	67.9	60.2 - 75.5	71.6	64.1 - 79.1
	Total	111.3	87.9 - 134.7	60.7	55.4 - 65.9	65.0	59.8 - 70.1

Table 2.1.6: Lung cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	76.3	25.6 - 127.1	22.6	12.3 - 32.9	28.1	17.5 - 38.8
	Male	73.7	19.9 - 127.5	29.2	18.2 - 40.3	33.5	22.4 - 44.7
	Total	74.7	38.0 - 111.3	25.6	18.0 - 33.1	30.5	22.8 - 38.2
New Zealand	Female	83.7	65.1 - 102.4	18.9	16.3 - 21.4	24.0	21.2 - 26.8
	Male	75.5	56.6 - 94.4	27.0	24.0 - 30.0	30.6	27.5 - 33.7
	Total	79.7	66.5 - 93.0	22.6	20.6 - 24.5	26.9	24.9 - 29.0

Table 2.1.7: Female breast cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	42.5	4.0 - 80.9	27.0	14.4 - 39.7	29.1	17.0 - 41.1
New Zealand	Female	42.9	29.4 - 56.4	24.1	20.8 - 27.5	25.9	22.6 - 29.1

Table 2.1.8: Prostate cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Male	20.1	-8.4 - 48.7	16.4	9.7 - 23.1	16.8	10.3 - 23.3
New Zealand	Male	24.6	13.5 - 35.8	15.5	13.6 - 17.5	16.0	14.1 - 18.0

Table 2.1.9: Cervical cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	10.7	-9.8 - 31.3	2.3	-1.6 - 6.3	3.8	-1.1 - 8.6
New Zealand	Female	6.6	1.2 - 12.0	2.2	1.1 - 3.3	2.6	1.5 - 3.7

Table 2.1.10: Colorectal cancer mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	15.6	-7.6 - 38.8	20.5	10.6 - 30.4	19.9	11.0 - 28.7
	Male	31.5	-3.2 - 66.2	25.4	14.6 - 36.3	26.0	15.9 - 36.1
	Total	23.2	2.7 - 43.7	22.8	15.5 - 30.2	22.8	16.1 - 29.5
New Zealand	Female	14.6	6.9 - 22.3	17.2	14.7 - 19.6	17.0	14.7 - 19.3
	Male	21.9	11.7 - 32.2	22.3	19.5 - 25.1	22.3	19.6 - 25.0
	Total	18.1	11.8 - 24.4	19.6	17.7 - 21.4	19.5	17.7 - 21.2

Table 2.1.11: Melanoma mortality, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	5.9	0.7 - 11.2	5.5	0.9 - 10.1
	Male	0.0	0.0 - 0.0	10.6	1.8 - 19.4	9.4	2.1 - 16.7
	Total	0.0	0.0 - 0.0	8.1	3.1 - 13.2	7.3	3.1 - 11.6
New Zealand	Female	2.0	-0.8 - 4.8	4.7	3.3 - 6.0	4.4	3.1 - 5.7
	Male	2.4	-1.0 - 5.7	10.2	8.1 - 12.3	9.7	7.7 - 11.6
	Total	2.2	0.0 - 4.4	7.3	6.0 - 8.5	6.8	5.7 - 8.0

Table 2.1.12: Unintentional injury mortality, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	23.6	-23.0 - 70.2	11.4	-5.8 - 28.7	14.6	-3.0 - 32.1
	Male	52.4	-19.6 - 124.4	28.8	0.0 - 57.6	33.7	6.5 - 61.0
	Total	37.2	-4.7 - 79.2	20.1	3.3 - 36.9	24.0	7.9 - 40.2
New Zealand	Female	21.2	6.0 - 36.3	7.8	3.8 - 11.8	10.4	6.0 - 14.7
	Male	49.1	25.2 - 73.0	21.6	14.8 - 28.5	26.1	19.1 - 33.0
	Total	34.5	20.7 - 48.4	14.6	10.7 - 18.6	18.1	14.0 - 22.2

Table 2.1.13: Suicide, 5+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	6.7	-16.1 - 29.5	5.3	-5.9 - 16.6	5.9	-4.6 - 16.4
	Male	16.1	-21.5 - 53.7	18.2	-2.6 - 39.1	17.9	-0.3 - 36.1
	Total	11.1	-10.3 - 32.4	11.7	-0.1 - 23.4	11.7	1.4 - 22.1
New Zealand	Female	10.0	0.2 - 19.8	5.0	2.1 - 7.9	6.0	3.0 - 9.0
	Male	25.9	9.5 - 42.3	16.5	11.2 - 21.8	18.0	12.9 - 23.2
	Total	17.5	8.2 - 26.8	10.7	7.7 - 13.7	11.9	8.9 - 14.8

Table 2.1.14: Drowning, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Male	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
	Total	0.0	0.0 - 0.0	0.0	0.0 - 0.0	0.0	0.0 - 0.0
New Zealand	Female	0.0	0.0 - 0.0	0.7	-0.4 - 1.7	0.7	-0.2 - 1.5
	Male	2.1	-1.0 - 5.3	0.9	-0.3 - 2.1	1.2	0.0 - 2.4
	Total	1.4	-0.4 - 3.2	0.8	0.0 - 1.6	1.0	0.2 - 1.7

Table 2.1.15: Unintentional injury mortality, 15-24 years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	28.3	7.5 - 49.1	25.6	13.3 - 37.9	26.1	15.6 - 36.6
	Male	83.3	46.9 - 119.7	51.3	34.4 - 68.1	59.5	43.9 - 75.2
	Total	55.2	34.5 - 75.9	38.8	28.2 - 49.3	43.1	33.6 - 52.5
New Zealand	Female	28.5	21.3 - 35.7	10.3	8.1 - 12.5	14.0	11.8 - 16.3
	Male	64.5	53.3 - 75.6	33.4	29.6 - 37.2	39.0	35.3 - 42.7
	Total	46.0	39.5 - 52.6	22.0	19.8 - 24.2	26.6	24.4 - 28.8

Table 2.1.16: Suicide mortality, 15-24 years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	23.0	4.5 - 41.6	9.6	1.9 - 17.3	13.3	5.7 - 20.8
	Male	24.0	4.7 - 43.3	18.8	8.6 - 29.0	20.3	11.2 - 29.5
	Total	23.5	10.1 - 36.9	14.3	7.9 - 20.8	16.9	10.9 - 22.8
New Zealand	Female	19.8	13.8 - 25.8	6.6	4.8 - 8.3	9.2	7.3 - 11.0
	Male	40.1	31.4 - 48.9	23.6	20.4 - 26.8	26.7	23.6 - 29.8
	Total	29.7	24.5 - 35.0	15.2	13.4 - 17.0	18.0	16.2 - 19.8

Table 2.1.17: Ischaemic heart disease mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	661.5	622.2 - 700.7	395.0	388.0 - 402.0	421.9	414.7 - 429.1
	Male	1566.5	1497.8 - 1635.3	806.0	793.8 - 818.2	862.6	850.3 - 874.9
	Total	1047.7	1010.9 - 1084.5	583.0	576.1 - 589.8	623.5	616.6 - 630.4
New Zealand	Female	893.9	878.3 - 909.5	394.7	392.6 - 396.7	422.3	420.2 - 424.4
	Male	1416.1	1393.1 - 1439.1	728.8	725.4 - 732.2	765.7	762.3 - 769.1
	Total	1123.8	1110.5 - 1137.0	545.4	543.5 - 547.3	577.2	575.2 - 579.1

Table 2.1.18: Stroke mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	256.2	232.2 - 280.1	236.9	231.6 - 242.2	240.5	235.3 - 245.6
	Male	295.5	265.5 - 325.6	246.3	239.6 - 252.9	249.9	243.5 - 256.4
	Total	272.1	253.4 - 290.8	246.1	241.9 - 250.3	249.4	245.3 - 253.5
New Zealand	Female	339.9	330.4 - 349.4	245.7	244.2 - 247.3	251.4	249.9 - 253.0
	Male	255.5	245.6 - 265.3	257.9	256.0 - 259.8	259.1	257.2 - 261.0
	Total	307.1	300.2 - 314.0	254.5	253.3 - 255.8	258.1	256.9 - 259.4

Table 2.1.19: Lung cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	541.3	505.3 - 577.2	133.1	127.7 - 138.6	165.3	159.5 - 171.2
	Male	545.7	506.0 - 585.4	245.2	237.9 - 252.5	267.5	260.2 - 274.9
	Total	537.7	511.4 - 564.0	183.8	179.4 - 188.3	211.4	206.7 - 216.0
New Zealand	Female	494.7	482.8 - 506.7	131.6	130.0 - 133.1	153.4	151.8 - 155.0
	Male	501.9	488.6 - 515.1	228.8	226.8 - 230.9	245.3	243.2 - 247.4
	Total	497.3	488.5 - 506.2	175.1	173.8 - 176.4	194.3	193.0 - 195.6

Table 2.1.20: Female breast cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	145.8	127.7 - 164.0	108.7	104.1 - 113.3	111.7	107.2 - 116.2
New Zealand	Female	174.2	167.1 - 181.3	95.3	94.0 - 96.6	99.8	98.5 - 101.1

Table 2.1.21: Prostate cancer mortality, all ages, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Male	9.1	-19.4 - 37.6	7.4	0.7 - 14.1	7.6	1.1 - 14.1
New Zealand	Male	11.1	0.0 - 22.3	7.0	5.1 - 9.0	7.3	5.3 - 9.2

Table 2.1.22: Cervical cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	6.3	5.1 - 7.4	5.8	4.8 - 6.8
New Zealand	Female	14.2	12.2 - 16.3	8.1	7.7 - 8.4	8.5	8.1 - 8.8

Table 2.1.23: Colorectal cancer mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	118.7	101.7 - 135.6	146.6	141.2 - 151.9	144.7	139.6 - 149.8
	Male	254.0	227.3 - 280.7	190.2	183.7 - 196.6	196.5	190.2 - 202.8
	Total	183.9	168.4 - 199.5	167.1	162.9 - 171.2	169.2	165.2 - 173.3
New Zealand	Female	97.5	92.3 - 102.7	133.3	131.8 - 134.8	131.3	129.8 - 132.7
	Male	155.9	148.5 - 163.3	179.8	177.9 - 181.6	178.9	177.1 - 180.7
	Total	125.0	120.6 - 129.4	154.4	153.3 - 155.6	152.9	151.8 - 154.1

Table 2.1.24: Melanoma mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	27.7	25.7 - 29.7	26.5	24.7 - 28.4
	Male	0.0	0.0 - 0.0	54.8	51.7 - 57.9	54.1	51.1 - 57.0
	Total	0.0	0.0 - 0.0	40.1	38.3 - 41.9	39.2	37.5 - 40.9
New Zealand	Female	15.5	13.4 - 17.6	25.8	25.1 - 26.4	25.3	24.7 - 25.9
	Male	14.0	11.8 - 16.2	66.3	65.2 - 67.4	64.1	63.0 - 65.1
	Total	15.4	13.9 - 17.0	43.8	43.2 - 44.4	42.4	41.9 - 43.0

Table 2.1.25: COPD mortality, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2006-08

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	427.3	396.0 - 458.6	124.6	120.0 - 129.2	148.8	143.9 - 153.8
	Male	527.0	487.6 - 566.3	235.7	229.3 - 242.2	256.7	250.1 - 263.3
	Total	469.0	444.6 - 493.5	170.2	166.4 - 174.1	192.9	188.9 - 196.9
New Zealand	Female	430.9	419.9 - 441.9	146.6	145.2 - 148.1	162.8	161.3 - 164.3
	Male	480.0	466.6 - 493.4	219.1	217.3 - 220.9	231.7	229.9 - 233.6
	Total	444.2	435.9 - 452.5	175.0	173.9 - 176.1	189.4	188.2 - 190.5

Table 2.2.1: Leading causes of avoidable mortality, males and females, 0-74 years, 2006-08

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Breast cancer (female only)	11.6	Breast cancer (female only)	10.7
	Lung cancer	11.2	Lung cancer	9.3
	Ischaemic heart disease	9.7	Ischaemic heart disease	8.1
	Motor vehicle accidents	8.7	Colorectal cancer	5.9
	Colorectal cancer	7.0	Diabetes	5.8
Male	Ischaemic heart disease	33.3	Ischaemic heart disease	27.3
	Motor vehicle accidents	21.2	Suicide and self-inflicted injuries	15.7
	Suicide and self-inflicted injuries	15.5	Motor vehicle accidents	12.3
	Lung cancer	11.7	Lung cancer	10.8
	Colorectal cancer	9.6	Diabetes	8.3
Total	Ischaemic heart disease	21.2	Ischaemic heart disease	17.4
	Motor vehicle accidents	14.9	Suicide and self-inflicted injuries	10.4
	Lung cancer	11.4	Lung cancer	10.0
	Suicide and self-inflicted injuries	10.2	Motor vehicle accidents	8.6
	Colorectal cancer	8.3	Diabetes	7.0

Table 2.2.2: Leading causes of avoidable mortality, by ethnicity, 0-74 years, 2006-08

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Ischaemic heart disease	58.6	Ischaemic heart disease	51.4
	Diabetes	30.3	Lung cancer	31.6
	Lung cancer	27.5	Diabetes	26.8
	Motor vehicle accidents	20.4	Motor vehicle accidents	17.8
	COPD	17.7	Suicide and self-inflicted injuries	15.4
non-Māori	Ischaemic heart disease	15.7	Ischaemic heart disease	14.3
	Motor vehicle accidents	13.2	Suicide and self-inflicted injuries	9.3
	Suicide and self-inflicted injuries	10.2	Lung cancer	8.1
	Lung cancer	9.4	Motor vehicle accidents	6.7
	Colorectal cancer	8.3	Colorectal cancer	6.7

Table 2.2.3: Leading causes of mortality, males and females, 65+ years, 2006-08

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Ischaemic heart disease	417.9	Ischaemic heart disease	418.5
	Stroke	198.9	Stroke	206.0
	Lung cancer	165.3	CORD	172.8
	Colorectal cancer	144.7	Lung cancer	153.4
	Breast cancer (female only)	111.7	Colorectal cancer	131.3
Male	Ischaemic heart disease	852.4	Ischaemic heart disease	757.4
	Lung cancer	267.5	Lung cancer	245.3
	CORD	263.6	CORD	238.4
	Stroke	206.6	Stroke	207.5
	Colorectal cancer	196.5	Colorectal cancer	178.9
Total	Ischaemic heart disease	616.6	Ischaemic heart disease	571.4
	Lung cancer	211.4	Stroke	210.0
	Stroke	206.6	CORD	197.9
	CORD	200.3	Lung cancer	194.3
	Colorectal cancer	169.2	Colorectal cancer	152.9

Table 2.2.4: Leading causes of mortality, by ethnicity, 65+ years, 2006-08

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Ischaemic heart disease	1037.9	Ischaemic heart disease	1109.6
	Lung cancer	537.7	Lung cancer	497.3
	Diabetes	492.0	CORD	465.0
	CORD	491.2	Diabetes	389.4
	Stroke	197.1	Stroke	247.1
non-Māori	Ischaemic heart disease	576.3	Ischaemic heart disease	540.1
	Stroke	206.0	Stroke	207.2
	Lung cancer	183.8	CORD	182.8
	CORD	175.9	Lung cancer	175.1
	Colorectal cancer	167.1	Colorectal cancer	154.4

Appendix 3

Hospitalisation Tables (2007-2009)

NOTE A: Counts less than 5 have ASR's presented as "0.0" or "#N/A"

NOTE B: There are two comparisons being made in the following tables

1. Māori Age-Standardised Rate against non-Māori Age-Standardised Rate
within the District Health Board:

Māori ASR statistically significantly higher than non-Māori ASR within DHB

Māori ASR statistically significantly lower than non-Māori ASR within DHB

2. District Health Board Age-Standardised Rate
against New Zealand Age-Standardised Rate:

DHB ASR statistically significantly higher than national ASR

DHB ASR statistically significantly lower than national ASR

Key:

DHB = District Health Board

ASR = Age-Standardised Rate

Table 3.1.1: Avoidable hospitalisations, 0-74 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	4434.9	3793.2 - 5076.7	2785.4	2465.7 - 3105.2	3110.2	2829.1 - 3391.2
	Male	4568.5	3907.3 - 5229.7	3216.0	2872.3 - 3559.6	3468.9	3173.0 - 3764.9
	Total	4507.6	4046.6 - 4968.5	2998.2	2763.6 - 3232.8	3289.4	3085.2 - 3493.5
New Zealand	Female	4904.4	4671.6 - 5137.1	3156.7	3061.1 - 3252.3	3408.8	3321.6 - 3496.1
	Male	4974.2	4736.0 - 5212.5	3535.8	3435.8 - 3635.9	3746.4	3655.7 - 3837.2
	Total	4946.3	4779.6 - 5112.9	3347.1	3277.8 - 3416.3	3578.9	3516.0 - 3641.9

Table 3.1.2: All cardiovascular disease hospitalisations, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	657.9	426.2 - 889.5	339.5	266.8 - 412.2	385.8	315.3 - 456.2
	Male	947.7	652.6 - 1242.8	570.7	477.2 - 664.1	630.0	539.5 - 720.4
	Total	795.7	610.3 - 981.1	451.5	392.5 - 510.5	503.7	446.7 - 560.8
New Zealand	Female	725.3	642.2 - 808.5	376.4	354.5 - 398.2	409.5	388.5 - 430.5
	Male	968.2	865.8 - 1070.6	638.8	610.7 - 666.9	673.8	646.7 - 700.8
	Total	842.1	776.8 - 907.4	503.2	485.5 - 520.9	536.9	519.9 - 553.9

Table 3.1.3: Ischaemic heart disease hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	257.5	162.7 - 352.4	150.5	125.1 - 175.9	164.6	139.5 - 189.8
	Male	415.8	285.8 - 545.7	413.8	367.7 - 459.8	418.1	374.6 - 461.5
	Total	332.1	253.0 - 411.1	277.8	251.9 - 303.7	286.6	261.9 - 311.3
New Zealand	Female	395.2	354.7 - 435.7	199.3	190.9 - 207.6	216.9	208.4 - 225.3
	Male	601.9	548.3 - 655.5	509.5	494.8 - 524.1	521.1	506.9 - 535.3
	Total	494.0	460.9 - 527.2	349.5	341.1 - 357.8	363.8	355.6 - 372.0

Table 3.1.4: Stroke hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	206.0	120.5 - 291.4	89.2	67.7 - 110.8	103.2	81.8 - 124.5
	Male	186.4	98.9 - 273.8	114.6	91.7 - 137.4	124.3	101.6 - 146.9
	Total	197.3	136.1 - 258.5	101.6	85.9 - 117.3	113.4	97.9 - 129.0
New Zealand	Female	215.4	185.6 - 245.2	92.6	86.7 - 98.4	103.2	97.3 - 109.2
	Male	171.3	142.5 - 200.0	128.3	121.3 - 135.4	132.8	125.9 - 139.7
	Total	196.1	175.2 - 217.0	109.7	105.1 - 114.2	117.3	112.8 - 121.8

Table 3.1.5: All cancer hospitalisations, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	462.1	264.8 - 659.3	365.3	282.9 - 447.7	380.0	306.3 - 453.7
	Male	453.9	247.3 - 660.6	413.7	332.7 - 494.6	421.1	347.9 - 494.2
	Total	455.6	313.9 - 597.2	386.6	329.0 - 444.2	397.6	345.8 - 449.3
New Zealand	Female	456.5	389.7 - 523.3	348.8	326.7 - 370.9	359.1	338.6 - 379.5
	Male	428.9	360.8 - 497.0	391.1	368.7 - 413.5	396.9	375.9 - 417.8
	Total	442.7	395.1 - 490.3	367.4	351.7 - 383.1	375.5	360.9 - 390.1

Table 3.1.6: Lung cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	88.0	31.8 - 144.2	38.1	24.4 - 51.9	43.4	29.9 - 57.0
	Male	130.1	57.8 - 202.5	39.4	26.7 - 52.0	48.5	35.0 - 62.0
	Total	106.8	62.1 - 151.5	38.4	29.1 - 47.7	45.5	36.0 - 55.1
New Zealand	Female	136.6	112.7 - 160.5	38.6	34.8 - 42.4	46.7	42.7 - 50.7
	Male	121.7	97.7 - 145.8	46.7	42.7 - 50.7	52.5	48.4 - 56.6
	Total	128.9	112.0 - 145.7	42.2	39.4 - 44.9	49.1	46.3 - 52.0

Table 3.1.7: Female breast cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	177.8	97.5 - 258.2	98.3	72.7 - 123.9	109.5	84.9 - 134.1
New Zealand	Female	168.3	141.3 - 195.3	103.1	96.0 - 110.2	109.6	102.7 - 116.6

Table 3.1.8: Prostate cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Male	61.6	12.8 - 110.3	56.1	41.5 - 70.7	56.9	42.9 - 70.9
New Zealand	Male	76.5	57.6 - 95.4	60.9	56.4 - 65.3	61.9	57.6 - 66.2

Table 3.1.9: Cervical cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	65.6	14.2 - 117.0	17.3	5.4 - 29.1	25.5	12.1 - 38.9
New Zealand	Female	44.6	30.2 - 59.0	17.6	14.2 - 21.1	20.9	17.4 - 24.3

Table 3.1.10: Colorectal cancer hospitalisation, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	49.2	6.1 - 92.3	57.7	40.5 - 74.9	58.8	42.4 - 75.1
	Male	84.6	25.4 - 143.7	60.2	44.6 - 75.9	64.9	48.8 - 81.0
	Total	66.2	30.0 - 102.3	58.7	47.1 - 70.4	61.6	50.2 - 73.1
New Zealand	Female	40.1	27.1 - 53.0	52.5	48.0 - 56.9	51.8	47.6 - 56.0
	Male	50.7	35.2 - 66.2	63.3	58.4 - 68.2	62.7	58.0 - 67.3
	Total	45.3	35.2 - 55.3	57.5	54.2 - 60.8	56.9	53.8 - 60.0

Table 3.1.11: Melanoma hospitalisations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	22.7	-6.0 - 51.5	147.2	119.1 - 175.3	132.2	108.0 - 156.4
	Male	29.2	-6.3 - 64.7	236.3	200.5 - 272.1	214.0	182.9 - 245.1
	Total	25.8	3.2 - 48.3	189.1	166.5 - 211.7	170.5	151.0 - 190.0
New Zealand	Female	21.2	11.6 - 30.8	107.6	100.9 - 114.3	100.4	94.3 - 106.5
	Male	22.4	12.0 - 32.8	167.6	159.4 - 175.8	156.9	149.4 - 164.4
	Total	21.5	14.6 - 28.5	135.4	130.1 - 140.6	126.5	121.7 - 131.2

Table 3.1.12: Unintentional injury hospitalisation, all ages, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	1221.8	881.3 - 1562.4	1066.1	872.0 - 1260.2	1102.1	936.2 - 1268.0
	Male	2278.0	1804.2 - 2751.7	1975.7	1714.1 - 2237.3	2042.7	1817.4 - 2268.0
	Total	1735.7	1446.7 - 2024.7	1522.9	1359.8 - 1686.0	1571.9	1432.0 - 1711.7
New Zealand	Female	1344.0	1220.6 - 1467.5	1133.4	1077.2 - 1189.6	1174.8	1124.1 - 1225.5
	Male	2485.9	2315.3 - 2656.6	2015.8	1942.3 - 2089.3	2095.7	2028.9 - 2162.6
	Total	1900.9	1796.5 - 2005.3	1575.3	1529.0 - 1621.6	1634.3	1592.4 - 1676.3

Table 3.1.13: Self-harm hospitalisation, 5+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	146.7	38.5 - 254.9	129.8	72.4 - 187.1	134.0	83.6 - 184.4
	Male	111.3	12.7 - 210.0	78.8	34.4 - 123.1	86.7	45.8 - 127.5
	Total	129.7	56.2 - 203.2	104.3	68.1 - 140.5	110.6	78.1 - 143.0
New Zealand	Female	153.2	115.2 - 191.3	146.7	129.7 - 163.6	147.8	132.4 - 163.3
	Male	103.2	70.5 - 136.0	78.7	66.6 - 90.9	82.7	71.3 - 94.2
	Total	128.6	103.5 - 153.8	112.6	102.2 - 123.0	115.4	105.8 - 124.9

Table 3.1.14: Unintentional injury hospitalisation, 15-24 years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	1137.7	1006.9 - 1268.5	1049.7	970.8 - 1128.6	1072.4	1005.0 - 1139.8
	Male	3195.5	2971.6 - 3419.4	2734.5	2610.4 - 2858.6	2853.0	2744.5 - 2961.6
	Total	2145.1	2016.8 - 2273.4	1913.1	1838.7 - 1987.4	1974.0	1909.8 - 2038.3
New Zealand	Female	1222.0	1174.8 - 1269.3	1013.0	991.5 - 1034.4	1053.4	1033.9 - 1073.0
	Male	3471.2	3389.9 - 3552.4	2673.9	2639.7 - 2708.0	2819.5	2788.0 - 2851.1
	Total	2326.1	2279.6 - 2372.7	1856.8	1836.5 - 1877.1	1945.2	1926.5 - 1963.8

Table 3.1.15: Ischaemic heart disease hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	1390.5	1332.5 - 1448.5	1079.4	1064.8 - 1093.9	1110.9	1096.6 - 1125.1
	Male	1591.9	1524.5 - 1659.3	2312.2	2289.0 - 2335.3	2264.7	2242.8 - 2286.6
	Total	1492.6	1448.4 - 1536.8	1661.5	1648.0 - 1674.9	1654.5	1641.7 - 1667.3
New Zealand	Female	2028.0	2003.9 - 2052.1	1374.4	1369.6 - 1379.2	1414.2	1409.5 - 1419.0
	Male	2276.0	2247.8 - 2304.3	2600.5	2593.3 - 2607.7	2586.3	2579.3 - 2593.2
	Total	2152.3	2133.9 - 2170.7	1946.8	1942.6 - 1951.0	1960.3	1956.2 - 1964.4

Table 3.1.16: Stroke hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	1025.2	975.7 - 1074.6	598.3	588.0 - 608.6	636.3	626.0 - 646.6
	Male	834.6	785.2 - 884.1	857.1	843.7 - 870.5	860.1	847.1 - 873.0
	Total	941.0	906.0 - 976.0	722.9	714.6 - 731.3	743.8	735.6 - 752.0
New Zealand	Female	1210.9	1192.6 - 1229.2	649.9	646.8 - 652.9	680.0	676.9 - 683.0
	Male	1008.7	989.8 - 1027.6	913.7	909.7 - 917.7	923.4	919.5 - 927.3
	Total	1137.9	1124.6 - 1151.2	772.5	770.0 - 774.9	793.1	790.7 - 795.6

Table 3.1.17: Lung cancer hospitalisations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	470.9	436.5 - 505.3	203.7	196.9 - 210.5	227.3	220.4 - 234.2
	Male	790.1	741.9 - 838.3	324.2	315.7 - 332.8	358.8	350.1 - 367.5
	Total	606.5	578.2 - 634.7	258.1	252.7 - 263.5	286.8	281.3 - 292.2
New Zealand	Female	673.0	658.9 - 687.0	235.7	233.6 - 237.8	263.0	260.8 - 265.1
	Male	727.2	711.2 - 743.2	364.2	361.5 - 366.8	384.6	381.9 - 387.3
	Total	691.3	680.9 - 701.7	293.2	291.5 - 294.9	317.0	315.3 - 318.7

Table 3.1.18: Female breast cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	379.9	349.3 - 410.5	300.4	291.9 - 308.9	306.2	298.0 - 314.3
New Zealand	Female	354.3	344.1 - 364.5	300.5	298.0 - 302.9	303.8	301.5 - 306.2

Table 3.1.19: Prostate cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Male	14.8	-21.3 - 50.9	16.0	5.7 - 26.2	15.9	6.1 - 25.7
New Zealand	Male	21.8	6.9 - 36.8	17.3	14.2 - 20.5	17.6	14.5 - 20.7

Table 3.1.20: Cervical cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	104.5	88.2 - 120.7	10.5	9.2 - 11.7	19.0	17.1 - 20.8
New Zealand	Female	28.7	25.8 - 31.5	20.8	20.2 - 21.4	21.2	20.6 - 21.8

Table 3.1.21: Colorectal cancer hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	135.2	117.2 - 153.2	380.8	371.9 - 389.8	362.5	354.2 - 370.9
	Male	396.6	363.1 - 430.1	531.1	520.0 - 542.1	522.8	512.3 - 533.3
	Total	258.6	240.2 - 277.1	451.7	444.6 - 458.7	438.3	431.7 - 445.0
New Zealand	Female	190.3	182.9 - 197.6	370.6	368.1 - 373.2	360.3	357.9 - 362.7
	Male	315.7	305.3 - 326.1	471.8	468.8 - 474.8	465.2	462.3 - 468.1
	Total	251.0	244.8 - 257.3	416.6	414.7 - 418.6	408.1	406.3 - 410.0

Table 3.1.22: Melanoma hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	111.3	95.3 - 127.2	858.1	845.2 - 871.1	802.8	790.9 - 814.7
	Male	0.0	0.0 - 0.0	1540.3	1522.2 - 1558.3	1442.7	1426.0 - 1459.3
	Total	106.2	94.5 - 117.9	1169.9	1159.0 - 1180.8	1093.8	1083.7 - 1103.8
New Zealand	Female	100.0	94.6 - 105.3	619.6	616.4 - 622.7	592.8	589.8 - 595.8
	Male	139.6	132.4 - 146.7	1161.9	1157.3 - 1166.4	1111.3	1107.0 - 1115.7
	Total	115.1	110.9 - 119.4	862.9	860.1 - 865.6	824.6	822.1 - 827.2

Table 3.1.23: COPD hospitalisation, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	3348.7	3259.5 - 3437.9	733.1	720.6 - 745.6	934.8	921.3 - 948.4
	Male	2330.1	2248.4 - 2411.9	905.4	891.6 - 919.2	1008.1	994.0 - 1022.2
	Total	2871.4	2810.7 - 2932.1	804.6	795.4 - 813.8	959.3	949.6 - 968.9
New Zealand	Female	2867.8	2839.2 - 2896.5	775.7	772.0 - 779.3	895.6	891.7 - 899.4
	Male	2751.7	2720.6 - 2782.7	1062.7	1058.3 - 1067.1	1151.7	1147.3 - 1156.2
	Total	2801.2	2780.3 - 2822.1	897.7	894.8 - 900.5	1002.7	999.7 - 1005.6

Table 3.1.24: Diabetes hospitalisations, 15+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	316.1	190.3 - 442.0	113.5	75.4 - 151.5	135.3	100.4 - 170.3
	Male	426.6	271.7 - 581.5	144.2	102.8 - 185.7	171.6	132.7 - 210.6
	Total	365.1	267.2 - 463.0	128.1	100.1 - 156.2	152.5	126.5 - 178.6
New Zealand	Female	283.9	242.9 - 324.9	99.7	90.4 - 109.0	115.1	106.0 - 124.1
	Male	336.2	288.8 - 383.7	120.6	110.6 - 130.5	137.8	128.0 - 147.7
	Total	308.1	277.1 - 339.1	109.5	102.7 - 116.3	125.8	119.1 - 132.4

Table 3.1.25: Diabetes complications - renal failure hospitalisations, 15+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	27.7	-9.1 - 64.5	4.9	-1.5 - 11.3	7.4	0.4 - 14.5
	Male	78.6	13.4 - 143.8	10.8	2.0 - 19.5	17.5	7.1 - 27.8
	Total	51.1	15.2 - 87.0	7.7	2.3 - 13.1	12.2	6.0 - 18.4
New Zealand	Female	43.7	27.8 - 59.6	7.4	5.2 - 9.6	10.3	7.9 - 12.7
	Male	73.0	51.1 - 95.0	9.0	6.7 - 11.3	14.3	11.4 - 17.1
	Total	57.4	44.1 - 70.7	8.1	6.5 - 9.7	12.2	10.3 - 14.0

Table 3.1.26: Asthma hospitalisations, 15+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	246.9	129.9 - 363.9	72.9	38.1 - 107.8	107.9	71.0 - 144.7
	Male	96.8	19.9 - 173.7	39.4	13.5 - 65.2	51.1	25.2 - 77.1
	Total	176.2	104.5 - 247.8	56.4	34.6 - 78.1	80.1	57.5 - 102.8
New Zealand	Female	257.0	216.0 - 298.0	96.1	85.2 - 106.9	119.1	108.1 - 130.1
	Male	130.2	99.5 - 161.0	52.3	44.1 - 60.5	62.9	54.7 - 71.2
	Total	196.4	170.4 - 222.4	74.6	67.8 - 81.4	91.6	84.7 - 98.5

Table 3.1.27: COPD hospitalisation, 45+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	1144.8	1026.0 - 1263.6	246.4	227.6 - 265.2	335.6	314.7 - 356.6
	Male	806.1	698.4 - 913.7	258.2	239.9 - 276.5	312.9	293.1 - 332.8
	Total	985.0	904.5 - 1065.6	249.5	236.5 - 262.6	322.3	307.8 - 336.7
New Zealand	Female	1174.3	1132.4 - 1216.2	271.9	266.3 - 277.5	340.6	334.4 - 346.7
	Male	934.7	894.6 - 974.8	314.2	308.3 - 320.1	356.1	350.0 - 362.3
	Total	1057.1	1028.2 - 1086.0	288.8	284.7 - 292.8	344.4	340.0 - 348.7

Table 3.1.28: Asthma hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	339.7	223.2 - 456.2	141.1	88.1 - 194.2	207.4	154.8 - 259.9
	Male	371.9	253.8 - 490.0	219.7	153.7 - 285.8	271.0	211.8 - 330.2
	Total	356.4	273.3 - 439.5	180.5	138.2 - 222.9	239.7	200.1 - 279.4
New Zealand	Female	505.8	456.8 - 554.9	302.4	280.6 - 324.3	353.4	332.9 - 373.8
	Male	727.8	670.4 - 785.1	454.9	428.6 - 481.1	523.7	499.3 - 548.1
	Total	619.5	581.7 - 657.4	380.3	363.2 - 397.4	440.4	424.5 - 456.4

Table 3.1.29: Poisoning hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	64.4	13.8 - 115.1	57.3	23.2 - 91.3	59.3	31.1 - 87.4
	Male	83.9	27.7 - 140.2	64.1	28.1 - 100.2	71.3	40.6 - 102.0
	Total	74.4	36.4 - 112.3	60.7	35.9 - 85.5	65.2	44.4 - 86.1
New Zealand	Female	89.3	68.7 - 109.8	83.5	72.0 - 95.1	84.8	74.8 - 94.9
	Male	98.1	77.1 - 119.2	99.7	87.4 - 112.1	99.3	88.7 - 110.0
	Total	93.8	79.0 - 108.5	91.8	83.3 - 100.3	92.2	84.9 - 99.6

Table 3.1.30: Burns hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	0.0	0.0 - 0.0	4.4	-3.2 - 11.9
	Male	35.0	-1.0 - 71.0	0.0	0.0 - 0.0	15.1	1.3 - 28.8
	Total	20.7	0.8 - 40.6	4.5	-2.1 - 11.0	9.8	1.9 - 17.7
New Zealand	Female	8.0	1.8 - 14.2	5.5	2.6 - 8.4	6.1	3.4 - 8.8
	Male	21.6	11.8 - 31.4	8.1	4.7 - 11.6	11.4	7.9 - 14.9
	Total	15.0	9.1 - 20.9	6.9	4.6 - 9.1	8.8	6.6 - 11.1

Table 3.1.31: Falls hospitalisation, 0-14 years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	527.6	382.5 - 672.8	510.1	411.3 - 608.9	517.2	435.3 - 599.0
	Male	622.4	470.5 - 774.3	781.2	661.2 - 901.3	728.7	634.1 - 823.4
	Total	576.8	471.5 - 682.1	648.2	570.2 - 726.2	625.7	562.9 - 688.5
New Zealand	Female	662.4	606.4 - 718.4	619.9	589.1 - 650.8	630.7	603.6 - 657.7
	Male	882.6	819.7 - 945.5	869.6	834.2 - 905.0	872.9	842.0 - 903.8
	Total	775.6	733.3 - 817.8	747.8	724.3 - 771.4	754.9	734.3 - 775.5

Table 3.1.32: Falls hospitalisation, 65+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	1509.7	1450.1 - 1569.3	2197.8	2178.8 - 2216.8	2157.8	2139.7 - 2175.8
	Male	1434.7	1367.8 - 1501.7	1563.7	1546.6 - 1580.8	1558.2	1541.7 - 1574.7
	Total	1454.3	1410.7 - 1497.9	1912.9	1900.1 - 1925.7	1889.6	1877.3 - 1901.9
New Zealand	Female	1688.1	1666.7 - 1709.5	2432.8	2427.1 - 2438.6	2402.9	2397.4 - 2408.4
	Male	1417.4	1394.4 - 1440.3	1746.9	1741.7 - 1752.2	1739.8	1734.6 - 1744.9
	Total	1583.8	1568.1 - 1599.5	2134.6	2130.7 - 2138.5	2115.7	2111.9 - 2119.5

Table 3.1.33: Musculoskeletal disease hospitalisation, 65+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2007-09

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	2278.0	2202.8 - 2353.2	2151.1	2129.1 - 2173.1	2166.9	2145.8 - 2188.0
	Male	2009.2	1932.4 - 2086.1	2071.4	2049.1 - 2093.6	2053.4	2032.3 - 2074.5
	Total	2121.5	2068.7 - 2174.3	2110.8	2095.2 - 2126.4	2109.4	2094.5 - 2124.3
New Zealand	Female	2354.3	2328.2 - 2380.5	2318.4	2311.8 - 2324.9	2322.0	2315.7 - 2328.4
	Male	2746.4	2715.3 - 2777.4	2135.1	2128.5 - 2141.7	2166.6	2160.1 - 2173.1
	Total	2523.3	2503.4 - 2543.3	2233.7	2229.0 - 2238.3	2250.5	2245.9 - 2255.0

Table 3.2.1: Leading causes of avoidable hospitalisation, males and females, 0-74 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Respiratory infections	382.7	Respiratory infections	510.3
	Dental conditions	343.3	Gastroenteritis	371.2
	ENT infections	297.6	Dental conditions	301.5
	Gastroenteritis	279.2	ENT infections	265.7
	Angina	202.4	Cellulitis	243.5
Male	Respiratory infections	443.7	Respiratory infections	570.2
	ENT infections	380.6	Gastroenteritis	355.3
	Dental conditions	357.9	ENT infections	331.7
	Gastroenteritis	286.1	Dental conditions	319.0
	Angina	282.6	Angina	300.1
Total	Respiratory infections	413.5	Respiratory infections	541.0
	Dental conditions	350.5	Gastroenteritis	363.7
	ENT infections	339.7	Dental conditions	310.3
	Gastroenteritis	282.7	ENT infections	299.6
	Angina	241.3	Angina	258.9

Table 3.2.2: Leading causes of avoidable hospitalisation, by ethnicity, 0-74 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	607.9	Respiratory infections	742.2
	Dental conditions	495.1	Dental conditions	441.6
	ENT infections	360.2	Asthma	356.4
	Angina	288.5	ENT infections	355.9
	Gastroenteritis	259.1	Angina	329.4
non-Māori	Respiratory infections	354.6	Respiratory infections	500.0
	ENT infections	333.6	Gastroenteritis	379.7
	Gastroenteritis	301.5	ENT infections	283.8
	Dental conditions	281.1	Dental conditions	271.8
	Angina	231.7	Angina	250.3

Table 3.2.3: Leading causes of hospitalisation, males and females, 65+ years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Persons encountering health services for specific procedures and health care	3085.2	Persons encountering health services for specific procedures and health care	1802.8
	Disorders of lens	1411.4	Angina	1499.8
	Angina	1372.6	Respiratory infections	1132.4
	CORD	979.1	CORD	968.0
	Respiratory infections	947.3	Other forms of heart disease	955.6
Male	Persons encountering health services for specific procedures and health care	3193.4	Persons encountering health services for specific procedures and health care	2367.0
	Angina	2007.7	Angina	1956.7
	Skin cancers	1465.4	Respiratory infections	1721.7
	Respiratory infections	1446.3	Ischaemic heart disease	1550.1
	Ischaemic heart disease	1203.1	Other forms of heart disease	1232.4
Total	Persons encountering health services for specific procedures and health care	3139.9	Persons encountering health services for specific procedures and health care	2059.9
	Angina	1672.9	Angina	1712.2
	Disorders of lens	1241.1	Respiratory infections	1388.0
	Respiratory infections	1163.9	Ischaemic heart disease	1148.7
	Skin cancers	1109.1	Other forms of heart disease	1084.0

Table 3.2.4: Leading causes of hospitalisation, by ethnicity, 65+ years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Persons encountering health services for specific procedures and health care	10164.6	Persons encountering health services for specific procedures and health care	7454.5
	CORD	3028.3	CORD	2912.0
	Diabetes	2800.5	Respiratory infections	2597.3
	Respiratory infections	2434.9	Diabetes	2074.3
	Congestive heart failure	1983.1	Angina	1943.8
non-Māori	Persons encountering health services for specific procedures and health care	2452.9	Persons encountering health services for specific procedures and health care	1705.0
	Angina	1663.4	Angina	1698.8
	Disorders of lens Skin	1202.4	Respiratory infections	1319.4
	cancers Respiratory	1186.5	Ischaemic heart disease	1133.2
	infections	1064.9	Other forms of heart disease	1069.6

Table 3.2.5: Leading causes of hospitalisation, males and females, 5-14 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Dental conditions	761.4	Dental conditions	660.6
	Respiratory infections	609.9	Respiratory infections	622.0
	ENT infections	417.8	ENT infections	380.4
	Injuries to the elbow and forearm	349.9	Injuries to the elbow and forearm	337.0
	Symptoms and signs involving the digestive system and abdomen	322.4	Persons encountering health services for specific procedures and health care	311.2
Male	Dental conditions	771.7	Dental conditions	687.9
	Respiratory infections	708.2	Respiratory infections	671.2
	ENT infections	533.3	Injuries to the elbow and forearm	520.1
	Injuries to the elbow and forearm	504.7	ENT infections	457.9
	Injuries to the head	303.4	Injuries to the head	360.8
Total	Dental conditions	766.8	Dental conditions	674.6
	Respiratory infections	660.4	Respiratory infections	647.1
	ENT infections	477.1	Injuries to the elbow and forearm	430.9
	Injuries to the elbow and forearm	429.8	ENT infections	420.1
	Symptoms and signs involving the digestive system and abdomen	300.1	Persons encountering health services for specific procedures and health care	330.2

Table 3.2.6: Leading causes of hospitalisation, by ethnicity, 5-14 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Dental conditions	1026.1	Dental conditions	843.1
	ENT infections	635.2	Respiratory infections	644.5
	Respiratory infections	583.2	ENT infections	555.6
	Injuries to the elbow and forearm	354.5	Injuries to the elbow and forearm	425.4
	Cellulitis	245.5	Persons encountering health services for specific procedures and health care	399.2
non-Māori	Respiratory infections	699.5	Respiratory infections	648.9
	Dental conditions	639.2	Dental conditions	619.8
	Injuries to the elbow and forearm	464.4	Injuries to the elbow and forearm	432.1
	ENT infections	404.0	ENT infections	377.3
	Symptoms and signs involving the digestive system and abdomen	349.1	Persons encountering health services for specific procedures and health care	308.2

Table 3.2.7: Leading causes of hospitalisation, males and females, 0-4 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Female	Persons encountering health services in other circumstances	6952.7	Persons encountering health services in other circumstances	4296.1
	Respiratory infections	3076.7	Respiratory infections	3688.1
	Disorders related to length of gestation and fetal growth	1633.3	Disorders related to length of gestation and fetal growth	1895.8
	ENT infections	1189.5	Gastro-oesophageal reflux disease	1561.8
	Gastro-oesophageal reflux disease	1074.6	ENT infections	1005.2
Male	Persons encountering health services in other circumstances	6858.7	Respiratory infections	4875.7
	Respiratory infections	4338.3	Persons encountering health services in other circumstances	4131.4
	Disorders related to length of gestation and fetal growth	1828.5	Disorders related to length of gestation and fetal growth	2016.8
	ENT infections	1654.8	Gastro-oesophageal reflux disease	1663.2
	Gastro-oesophageal reflux disease	1239.1	ENT infections	1415.5
Total	Persons encountering health services in other circumstances	6905.3	Respiratory infections	4295.1
	Respiratory infections	3712.5	Persons encountering health services in other circumstances	4212.0
	Disorders related to length of gestation and fetal growth	1731.6	Disorders related to length of gestation and fetal growth	1957.6
	ENT infections	1424.0	Gastro-oesophageal reflux disease	1613.6
	Gastro-oesophageal reflux disease	1157.5	ENT infections	1214.9

Table 3.2.8: Leading causes of hospitalisation, by ethnicity, 0-4 years, 2007-09

	Waikato DHB		New Zealand	
	Condition	ASR	Condition	ASR
Māori	Respiratory infections	5322.6	Respiratory infections	5965.2
	Persons encountering health services in other circumstances	5082.1	Persons encountering health services in other circumstances	2422.4
	Disorders related to length of gestation and fetal growth	1454.8	Disorders related to length of gestation and fetal growth	1684.5
	Dental conditions	1435.7	Gastro-oesophageal reflux disease	1311.2
	ENT infections	1221.8	ENT infections	1270.5
non-Māori	Persons encountering health services in other circumstances	7875.3	Persons encountering health services in other circumstances	4825.9
	Respiratory infections	2856.0	Respiratory infections	3722.1
	Disorders related to length of gestation and fetal growth	1878.9	Disorders related to length of gestation and fetal growth	2051.4
	ENT infections	1531.6	Gastro-oesophageal reflux disease	1717.4
	Gastro-oesophageal reflux disease	1300.0	ENT infections	1195.9

Appendix 4

Cancer Registration Tables (2005-2007)

NOTE A: Counts less than 5 have ASR's presented as "0.0" or "#N/A"

NOTE B: There are two comparisons being made in the following tables

1. Māori Age-Standardised Rate against non-Māori Age-Standardised Rate
within the District Health Board:

Māori ASR statistically significantly higher than non-Māori ASR within DHB

Māori ASR statistically significantly lower than non-Māori ASR within DHB

2. District Health Board Age-Standardised Rate
against New Zealand Age-Standardised Rate:

DHB ASR statistically significantly higher than national ASR

DHB ASR statistically significantly lower than national ASR

Key:

DHB = District Health Board

ASR = Age-Standardised Rate

Table 4.1.1: Lung cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	99.8	41.5 - 158.2	23.6	13.0 - 34.3	31.7	20.2 - 43.2
	Male	79.0	23.3 - 134.7	30.5	19.0 - 42.1	35.7	23.8 - 47.5
	Total	90.6	49.9 - 131.2	26.8	18.9 - 34.6	33.4	25.2 - 41.7
New Zealand	Female	91.7	72.1 - 111.2	22.7	19.8 - 25.5	28.1	25.1 - 31.2
	Male	91.7	71.0 - 112.5	32.1	28.8 - 35.4	36.5	33.1 - 40.0
	Total	91.6	77.4 - 105.9	27.0	24.8 - 29.2	31.9	29.6 - 34.2

Table 4.1.2: Female breast cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	175.1	95.5 - 254.7	134.4	104.4 - 164.4	139.3	111.4 - 167.1
New Zealand	Female	167.8	140.8 - 194.7	126.7	118.6 - 134.7	130.4	122.7 - 138.1

Table 4.1.3: Prostate cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Male	77.6	22.8 - 132.4	104.7	83.6 - 125.8	101.6	82.0 - 121.2
New Zealand	Male	89.8	69.1 - 110.5	106.5	100.4 - 112.5	104.9	99.1 - 110.7

Table 4.1.4: Cervical cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	10.9	-10.1 - 32.0	6.4	-0.8 - 13.6	7.2	0.3 - 14.2
New Zealand	Female	17.1	8.2 - 26.0	9.5	6.9 - 12.1	10.3	7.8 - 12.7

Table 4.1.5: Colorectal cancer registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	47.4	5.3 - 89.5	48.6	32.7 - 64.5	49.2	34.4 - 64.1
	Male	44.2	1.8 - 86.5	56.7	40.4 - 73.0	55.8	40.6 - 71.1
	Total	45.4	15.8 - 75.0	52.5	41.1 - 63.9	52.4	41.8 - 63.1
New Zealand	Female	35.4	23.2 - 47.5	45.9	41.7 - 50.0	45.2	41.2 - 49.1
	Male	44.3	29.9 - 58.8	56.2	51.6 - 60.9	55.4	51.0 - 59.8
	Total	39.7	30.3 - 49.1	50.8	47.7 - 53.9	50.0	47.1 - 53.0

Table 4.1.6: Melanoma registrations, 25+ years, age-standardised rates per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	69.3	46.3 - 92.4	59.1	40.2 - 77.9
	Male	10.1	-11.1 - 31.3	71.2	48.7 - 93.8	62.6	43.6 - 81.7
	Total	7.7	-4.3 - 19.8	70.2	54.1 - 86.3	60.7	47.3 - 74.1
New Zealand	Female	10.0	3.4 - 16.6	55.1	49.5 - 60.7	50.2	45.2 - 55.1
	Male	8.5	1.9 - 15.2	61.4	55.7 - 67.0	56.5	51.4 - 61.5
	Total	9.3	4.6 - 13.9	58.0	54.0 - 61.9	53.1	49.5 - 56.6

Table 4.1.7: Lung cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	609.3	571.4 - 647.2	126.0	120.9 - 131.2	162.9	157.3 - 168.6
	Male	544.0	504.4 - 583.6	238.6	231.3 - 245.8	264.4	257.0 - 271.8
	Total	586.2	558.6 - 613.8	177.7	173.3 - 182.1	209.6	205.0 - 214.2
New Zealand	Female	507.3	495.1 - 519.4	145.2	143.6 - 146.9	166.5	164.8 - 168.2
	Male	605.3	590.8 - 619.8	255.1	252.9 - 257.3	276.2	274.0 - 278.4
	Total	553.2	543.9 - 562.6	194.6	193.3 - 196.0	215.9	214.5 - 217.2

Table 4.1.8: Female breast cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	400.9	370.1 - 431.7	310.9	302.4 - 319.4	314.8	306.7 - 322.8
New Zealand	Female	435.6	424.3 - 446.9	310.9	308.5 - 313.4	318.5	316.1 - 320.9

Table 4.1.9: Prostate cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Male	608.4	566.7 - 650.2	743.8	730.3 - 757.3	730.1	717.4 - 742.8
New Zealand	Male	756.4	740.0 - 772.8	762.6	758.7 - 766.6	760.3	756.5 - 764.2

Table 4.1.10: Cervical cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	10.6	9.1 - 12.1	11.5	10.0 - 13.0
New Zealand	Female	23.7	21.1 - 26.3	11.3	10.8 - 11.7	12.0	11.5 - 12.5

Table 4.1.11: Colorectal cancer registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	250.4	225.1 - 275.6	313.4	305.3 - 321.4	311.8	304.1 - 319.5
	Male	328.0	297.4 - 358.5	409.5	399.7 - 419.2	404.0	394.7 - 413.2
	Total	281.1	261.8 - 300.3	359.3	353.0 - 365.6	355.7	349.7 - 361.6
New Zealand	Female	210.0	202.3 - 217.7	309.7	307.4 - 312.0	304.0	301.8 - 306.3
	Male	344.7	333.8 - 355.5	404.6	401.8 - 407.4	402.6	399.9 - 405.4
	Total	274.5	267.9 - 281.1	353.8	352.0 - 355.6	349.9	348.2 - 351.7

Table 4.1.12: Melanoma registrations, 65+ years, age-standardised rate per 100,000 (and 95% confidence intervals), 2005-07

		Māori		non-Māori		Total	
		ASR	95% confidence	ASR	95% confidence	ASR	95% confidence
Waikato	Female	0.0	0.0 - 0.0	173.2	167.1 - 179.4	162.7	157.0 - 168.4
	Male	0.0	0.0 - 0.0	262.1	254.2 - 270.1	244.6	237.3 - 252.0
	Total	0.0	0.0 - 0.0	215.9	210.9 - 220.9	201.8	197.2 - 206.4
New Zealand	Female	35.6	32.5 - 38.8	144.7	143.1 - 146.3	138.2	136.7 - 139.7
	Male	48.2	44.0 - 52.5	247.5	245.3 - 249.7	236.7	234.7 - 238.8
	Total	41.0	38.4 - 43.5	191.8	190.4 - 193.1	183.2	181.9 - 184.5

Appendix 5

ICD-10 Codes

Description	ICD-10-AM codes used
I: Certain infectious and parasitic diseases	A00–B99
Intestinal infectious diseases	A00–A09
Tuberculosis (including late effects)	A15–A19, B90
Meningococcal infection	A39
Infections, sexual transmission	A50–A64
Viral hepatitis	B15–B19
HIV	B20–B24
Viral infection, unspecified, of unspecified site	B34.9
II: Neoplasms (cancer)	C00–D48
Malignant neoplasms	C00–C97
Lip, oral cavity and pharynx	C00–C14
Digestive organs	C15–C26
☛ Oesophagus	C15
☛ Cancer of stomach	C16
☛ Colorectal	C18–C21
☛ Cancer of colon	C18
☛ Rectum, rectosigmoid junction and anus	C19–C21
☛ Liver and intrahepatic bile ducts	C22
☛ Gallbladder, other and unspecified parts	C23–C24
☛ of biliary tract	
☛ Pancreas	C25
☛ Other digestive organs	C17, C26
Respiratory and intrathoracic organs	C30–C39
☛ Larynx	C32
☛ Trachea, bronchus and lung	C33–C34
☛ Other respiratory and intrathoracic organs	C30–C31, C37–C39
Bone and articular cartilage	C40–C41
Skin	C43–C44
☛ Melanoma of skin	C43
☛ Other malignant neoplasms of skin	C44
☛ Mesothelial and soft tissue	C45–C49
Breast: female	C50 & female
Breast: male	C50 & male
Female genital organs	C51–C58
☛ Cervix uteri	C53
☛ Uterus	C54–C55
☛ Ovary	C56
☛ Other female genital organs	C51–C52, C57–C58
Male genital organs	C60–C63
☛ Prostate	C61
☛ Testis	C62
☛ Other male genital organs	C60, C63
Urinary tract	C64–C68
☛ Kidney, except renal pelvis	C64
☛ Bladder	C67
☛ Other urinary tract	C65–C66, C68
Eye and other central nervous system	C69–C72
☛ Brain	C71

Description	ICD-10-AM codes used
<ul style="list-style-type: none"> ☒ Other central nervous system 	C69–C70, C72
Thyroid and other endocrine glands	C73–C75
<ul style="list-style-type: none"> ☒ Thyroid gland 	C73
<ul style="list-style-type: none"> ☒ Other endocrine glands 	C74–C75
Malignant neoplasm of ill-defined, secondary and unspecified sites	C76–C80
Lymphoma	C81–C85
<ul style="list-style-type: none"> ☒ Hodgkin's disease 	C81
<ul style="list-style-type: none"> ☒ Non-Hodgkin's lymphoma 	C82–C85
Multiple myeloma and other malignant immunoproliferative diseases and malignant plasma cell neoplasms	C88, C90
Leukaemias	C91–C95
<ul style="list-style-type: none"> ☒ Lymphoid leukaemia 	C91
<ul style="list-style-type: none"> ☒ Myeloid leukaemia 	C92
<ul style="list-style-type: none"> ☒ Acute myeloid leukaemia 	C92.0, C92.4, C92.5
<ul style="list-style-type: none"> ☒ Other myeloid leukaemia 	C92.1–C92.3, C92.8–C92.9
<ul style="list-style-type: none"> ☒ Other leukaemias 	C93–C95
Other and unspecified malignant neoplasms of lymphoid, hematopoietic, and related tissue	C96
Malignant neoplasm of independent (primary) multiple sites	C97
In situ neoplasms	D00–D09
<ul style="list-style-type: none"> ☒ Melanoma in situ 	D03
<ul style="list-style-type: none"> ☒ Carcinoma in situ of breast 	D05
<ul style="list-style-type: none"> ☒ Carcinoma in situ of cervix uteri 	D06
<ul style="list-style-type: none"> ☒ Other in situ neoplasms 	D00–D02, D04, D07–D09
Benign neoplasms	D10–D36
Neoplasms of uncertain or unknown behaviour	D37–D48
III: Diseases of the blood and blood-forming organs and	D50–D89
IV: Endocrine, nutritional and metabolic diseases	E00–E90
Disorders of thyroid gland	E00–E07
Diabetes mellitus	E10–E14
<ul style="list-style-type: none"> ☒ IDDM (type 1) 	E10
<ul style="list-style-type: none"> ☒ NIDDM (type 2) 	E11–E14
Obesity	E66
V: Mental and behavioural disorders	F00–F99
Organic, including symptomatic, mental disorder	F00–F09
<ul style="list-style-type: none"> ☒ Dementia, vascular and unspecified 	F01, F03
<ul style="list-style-type: none"> ☒ Personality and behavioural disorders due to brain disease, damage, and dysfunction 	F07
<ul style="list-style-type: none"> ☒ Mental and behavioural disorders due to psychoactive substance use 	F10–F19
<ul style="list-style-type: none"> ☒ Alcohol 	F10
<ul style="list-style-type: none"> ☒ Opioids 	F11
<ul style="list-style-type: none"> ☒ Cannabinoids 	F12

Description	ICD-10-AM codes used
Schizophrenia, schizotypal and delusional disorders	F20–F29
☛ Schizophrenia	F20
☛ Schizoaffective disorders	F25
Mood (affective) disorders	F30–F39
☛ Manic episode and bipolar affective disorder	F30–F31
☛ Manic episode	F30
☛ Bipolar affective disorder	F31
☛ Depressive episode and recurrent, and persistent mood [affective] disorders	F32–F34
☛ Depressive episode	F32
☛ Recurrent depressive disorder	F33
☛ Persistent mood [affective] disorders	F34
Neurotic, stress-related and somatoform disorders	F40–F48
Eating disorders	F50
Disorders of adult personality and behaviour	F60–F69
Mental retardation	F70–F79
VI: Diseases of the nervous system	G00–G99
Bacterial meningitis, not elsewhere classified	G00
Parkinson's disease, secondary Parkinsonism	G20–G21
Alzheimer's disease	G30
Epilepsy, status epilepticus	G40–G41
Migraine	G43
Transient cerebral ischemic attacks and related syndromes	G45
Mononeuropathies of upper limb	G56
Infantile cerebral palsy	G80
VII: Diseases of the eye and adnexa	H00–H59
Disorders of lens	H25–H28
Glaucoma	H40–H42
VIII: Diseases of the ear and mastoid process	H60–H95
Diseases of middle ear and mastoid	H65–H75
☛ Non-suppurative otitis media	H65
☛ Suppurative and unspecified otitis media	H66
☛ Perforation of tympanic membrane	H72
Hearing loss	H90–H91

Description	ICD-10-AM codes used
IX: Diseases of the circulatory system	I00–I99
Acute rheumatic fever	I00–I02
☛ Acute rheumatic heart disease	I01, I02.0
Chronic rheumatic heart disease	I05–I09
Hypertensive diseases	I10–I15
Ischemic heart disease	I20–I25
☛ Angina pectoris	I20
☛ Acute myocardial infarction	I21
☛ Chronic ischemic heart disease	I25
Pulmonary circulation	I26–I28
Other forms of heart disease	I30–I52
☛ Atrial fibrillation and flutter	I48
☛ Heart failure	I50
Cerebrovascular diseases	I60–I69
☛ Subarachnoid haemorrhage	I60
☛ Intracerebral haemorrhage, other nontraumatic intracranial haemorrhage	I61–I62
☛ Cerebral infarction, stroke, not specified as haemorrhage or infarction	I63–I64
Other diseases of the circulatory system	I70–I99
☛ Atherosclerosis	I70
☛ Varicose veins of lower extremities	I83
X: Diseases of the respiratory system	J00–J99
Acute upper respiratory infections	J00–J06
Pneumonia	J12–J18
Acute bronchitis and bronchiolitis	J20–J22
Chronic diseases of tonsils and adenoids	J35
Chronic obstructive respiratory disease	J40–J44
Asthma	J45–J46
Bronchiectasis	J47
XI: Diseases of the digestive system	K00–K93
Teeth and gums	K00–K08
☛ Disorders of tooth development and eruption, embedded and impacted teeth	K00–K01
☛ Dental caries	K02
☛ Diseases of pulp and periapical tissues	K04
☛ Periodontal diseases	K05–K06
Diseases of oesophagus, stomach and duodenum	K20–K31
☛ Diseases of oesophagus	K20–K22
☛ Gastric, duodenal, peptic gastrojejunal ulcers, gastritis duodenitis	K25–K29
Diseases of appendix	K35–K38
Hernia	K40–K46
☛ Inguinal hernia	K40
Non-infective gastroenteritis and colitis	K50–K52
Other diseases of intestines and diseases of peritoneum	K55–K67
Diseases of liver	K70–K77
☛ Alcoholic liver disease	K70

Description	ICD-10-AM codes used
Diseases of gallbladder, biliary tract and pancreas	K80–K87
Cholelithiasis	K80
Acute pancreatitis	K85
Other diseases of pancreas	K86
Haematemesis, melaena and gastrointestinal haemorrhage, unspecified	K92.0–K92.2
XII: Diseases of the skin and subcutaneous tissue	L00–L99
Infections of skin and subcutaneous tissue	L00–L08
XIII: Diseases of the musculoskeletal system and connective tissue	M00–M99
Gout	M10
Arthrosis (osteoarthritis)	M15–M19
Other dorsopathies	M50–M54
XIV: Diseases of the genitourinary system	N00–N99
Glomerular diseases	N00–N08
Tubulo-interstitial nephritis	N10–N12
Renal failure	N17–N19
Urolithiasis	N20–N23
Urinary tract infection, site not specified	N39.0
Stress incontinence and other specified urinary incontinence	N39.3, N39.4
☐ Stress incontinence	N39.3
Disorders of male genital organs	N40–N51
☐ Hyperplasia of prostate	N40
Inflammatory disorders of breast	N61
Inflammatory diseases of female pelvic organs	N70–N77
Non-inflammatory disorders of female genital tract	N80–N98
☐ Endometriosis	N80
☐ Female genital prolapse	N81
☐ Dysplasia of cervix uteri	N87
☐ Excessive and frequent menstruation	N92.0, N92.1
☐ Menopausal and other perimenopausal disorders	N95
XV: Pregnancy, childbirth and the puerperium	O00–O99
Abscess of breast associated with childbirth	O91.1
XVI: Certain conditions originating in the perinatal period	P00–P96
Slow fetal growth and fetal malnutrition and premature	P05–P07
☐ Slow fetal growth and fetal malnutrition	P05
☐ Premature	P07.2–P07.3
Birth trauma	P10–P15
Respiratory and cardiovascular disorders specific to the perinatal period	P20–P29

Description	ICD-10-AM codes used
☛ Birth asphyxia	P21
☛ Respiratory distress of newborn	P22
Infection specific to the perinatal period	P35–P39
XVII: Congenital malformations, deformations, and chromosomal abnormalities	Q00–Q99
XVIII: Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00–R99
Symptoms and signs involving the circulatory and respiratory systems	R00–R09
Symptoms and signs involving the digestive system and abdomen	R10–R19
Symptoms and signs involving the urinary system	R30–R39
General symptoms and signs	R50–R69
Ill-defined and unknown causes of mortality	R95–R99
☛ Sudden infant death syndrome	R95
XIX: Injury, poisoning and certain other consequences of external causes	S00–T98
Injuries to the head	S00–S09
Other injuries	S10–T14
Burns	T20–T31
Poisoning by drugs, medicaments and biological substances	T36–T50
Complications of surgical and medical care, not elsewhere classified	T80–T88
XX: External causes of morbidity and mortality	V01–Y98
Accidents	V01–V99, W00–X59, Y85,
Transport accidents	V01–V99, Y85
☛ Pedestrian	V01–V09
☛ Pedal cyclist	V10–V19
☛ Other land transport (occupant of motorcycle, three-wheeled motor vehicle, car, pickup truck or van)	V20–V59, Y85.0
☛ Other transport	V90–V99, Y85.1
Other external causes of accidental injury	W00–X59, Y86
☛ Falls	W00–W19
☛ Exposure to mechanical forces	W20–W64
☛ Exposure to inanimate mechanical forces	W20–W49
☛ Exposure to animate mechanical forces	W50–W64
☛ Drowning and submersion (non transport)	W65–W74
☛ Fires	X00–X09
☛ Accidental poisoning by and exposure to noxious substances	X40–X49
☛ Accidental threats to breathing	W75–84
☛ Accidental suffocation or strangulation in bed	W75
Intentional self-harm (suicide)	X60–X84, Y87.0
Assault (homicide)	X85–Y09, Y87.1
Event of undetermined intent	Y10–Y34, Y87.2
Legal intervention	Y35, Y89.0

Description	ICD-10-AM codes used
Complications of medical and surgical care	Y40–Y84, Y88
☛ Drugs, medicaments and biological substances causing adverse effects in therapeutic use	Y40–Y59, Y88.0
☛ Misadventure to patients during surgical and medical care	Y60–Y69, Y88.1
☛ Medical devices associated with adverse incidents, abnormal reaction, without mention of misadventure at the time of the procedure	Y70–Y84, Y88.2, Y88.3
XXI: Factors influencing health status and contact with health services	Z00–Z99
Persons encountering health services for examination and investigation	Z00–Z13
Persons with potential health hazards related to communicable diseases	Z20–Z29
Persons encountering health services in circumstances related to reproduction	Z30–Z39
☛ Outcome of delivery	Z37
☛ Liveborn infants	Z38
Persons encountering health services for specific procedures and health care	Z40–Z54
☛ Care involving dialysis	Z49
☛ Care involving rehabilitation	Z50
Persons with potential health hazards related to socioeconomic and psychosocial circumstances	Z55–Z65
Persons encountering health services in other circumstances	Z70–Z76
Persons with potential health hazards related to family and personal history and certain conditions influencing health status	Z80–Z99