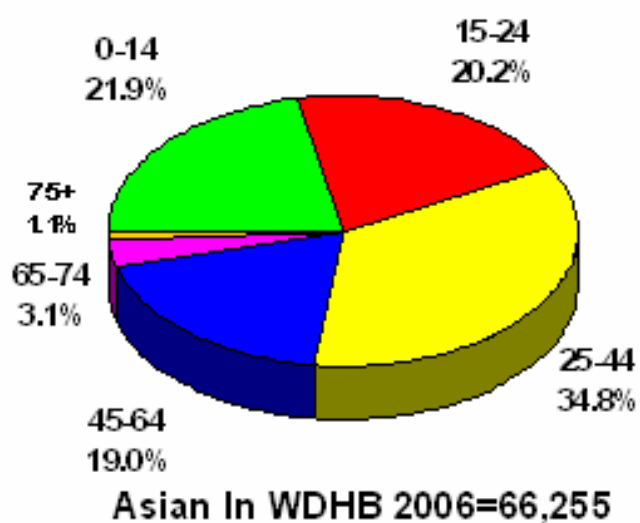


Asian people and their health

Waitemata DHB

2006 Census



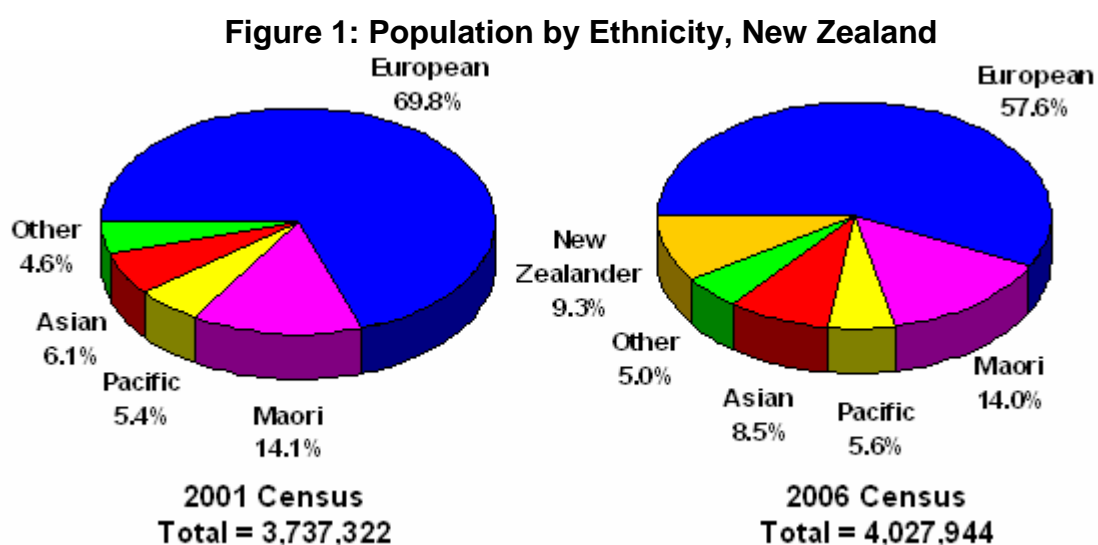
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Section 1 – Demographic Profile of Asian Population

1. Asian Population in New Zealand

According to 2006 Census, there were 4,027,944 people who usually lived in New Zealand. 8.5% or 340,794 of them were Asian. Figure 1 shows the number of population by ethnicity for 2001 and 2006. Asian in 2006 made up of 8.5% of people in New Zealand. It is important to note here that in 2006 Census, Statistics New Zealand has introduced the new grouping for ethnicity called New Zealander. Since the number of those who identified themselves as New Zealander was high, it has not been grouped with other ethnic group. The details of number of population by ethnic group by age are shown in Appendix A.



2. Asian Population by DHB in New Zealand

Table 1 shows the top ten DHBs with high number of people who identified themselves in 2006 Census as Asian by DHB. About 66% of Asian lived in Auckland region. Auckland DHB had the highest number of Asian, followed by Counties Manukau DHB and Waitemata DHB. The numbers of Asian population by DHBs are listed in Appendix B.

Table 1: Top Ten DHBs with High Number of Asian

DHB	Asian	%
Auckland	93,519	26.4%
Counties Manukau	73,053	20.6%
Waitemata	68,151	19.2%
Canterbury	28,359	8.0%
Capital and Coast	25,758	7.3%
Waikato	17,238	4.9%
Hutt	9,882	2.8%
Midcentral	7,002	2.0%
Otago	6,876	1.9%
Bay of Plenty	5,127	1.4%

3. Asian Population by Country of Birth

Table 2 shows number and percent of Asian by country of birth. 68% of Asian who lived in New Zealand was born in Asia and 20% of them were born in New Zealand.

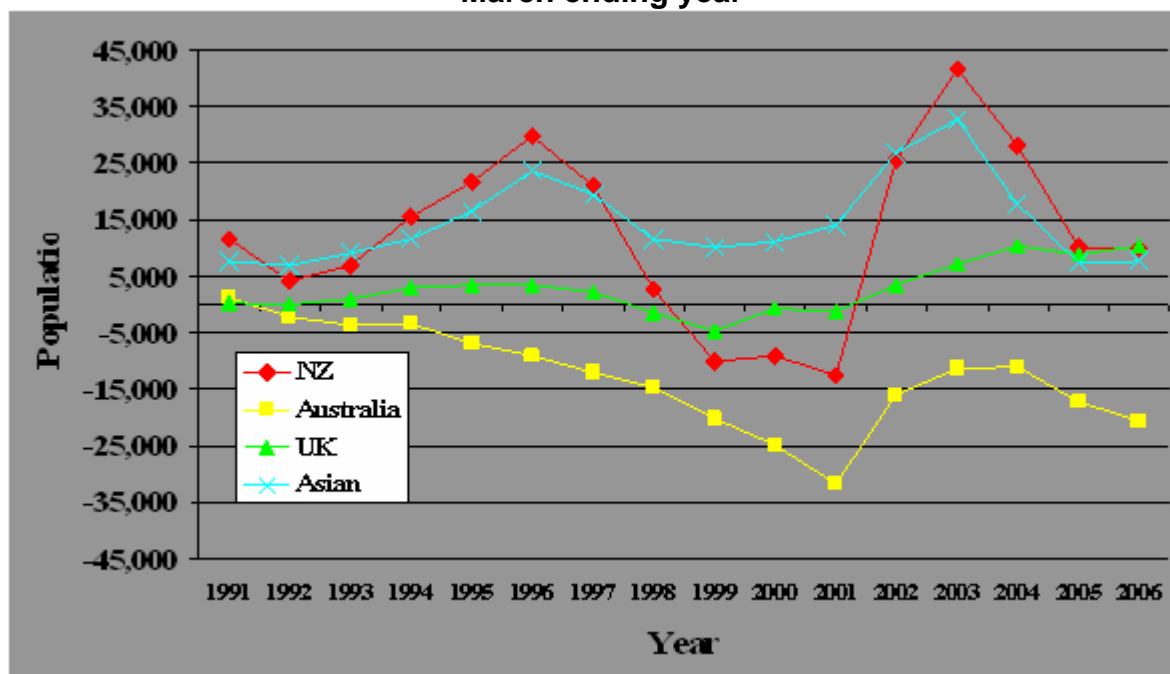
Table 2: Asian Respondents by Country of Birth, New Zealand

Country of Birth	Asian	%
Asia	240,537	67.8%
New Zealand	70,650	19.9%
Pacific Islands	31,338	8.8%
United Kingdom and Ireland	1,293	0.4%
Australia	1,080	0.3%
North America	957	0.3%
Europe (excl. United Kingdom and Ireland)	375	0.1%
Other	5,463	1.5%
Not Specify	2,859	0.8%
New Zealand	354,552	100.0%

4. Asian Migration to New Zealand

Figure 2 shows the number of net long term migration for New Zealand between April 1991 and March 2006. The country experienced net migration loss between 1998 and 2001. However, when broken down by country, Asian migration has always been a net gain. The highest peak was in the year 2003.

**Figure 2: New Zealand Net Long Term Migration
March ending year**

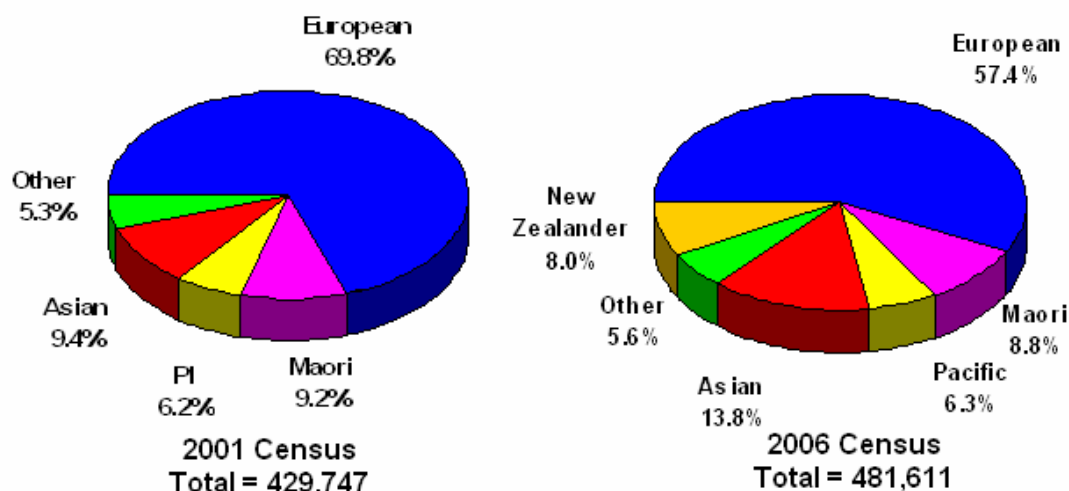


Source: Statistics NZ

5. Asian Population in Waitemata DHB

There were 481,611 people who usually lived in Waitemata DHB in March 2006, the largest DHB in the country. The population in this DHB grew from 429,747 in 2001 to 481,611 in 2006, an increase of 12.1%. Figure 3 shows the number of population by ethnicity for 2001 and 2006 in Waitemata DHB. 13.8% or 66,255 of population in 2006 were Asian. Asian population is now the second largest ethnic group in Waitemata DHB.

Figure 3: Population by Ethnicity, Waitemata DHB



6. Asian Population change between 2001 and 2006

The number of people reported themselves as Asian increased from 238,176 in 2001 to 354,549 in 2006, an increase of 48.9% nationwide. Waitemata DHB had the fastest growth of 62.8% of Asian population between 2001 and 2006 but the third largest growth in number change. Note that the number of Asian in this table is higher than the number of Asian population shown above. The reason is some of the other ethnic group respondents could also identify themselves with Asian in this table. The full list of Asian population change by DHB is shown in Appendix C.

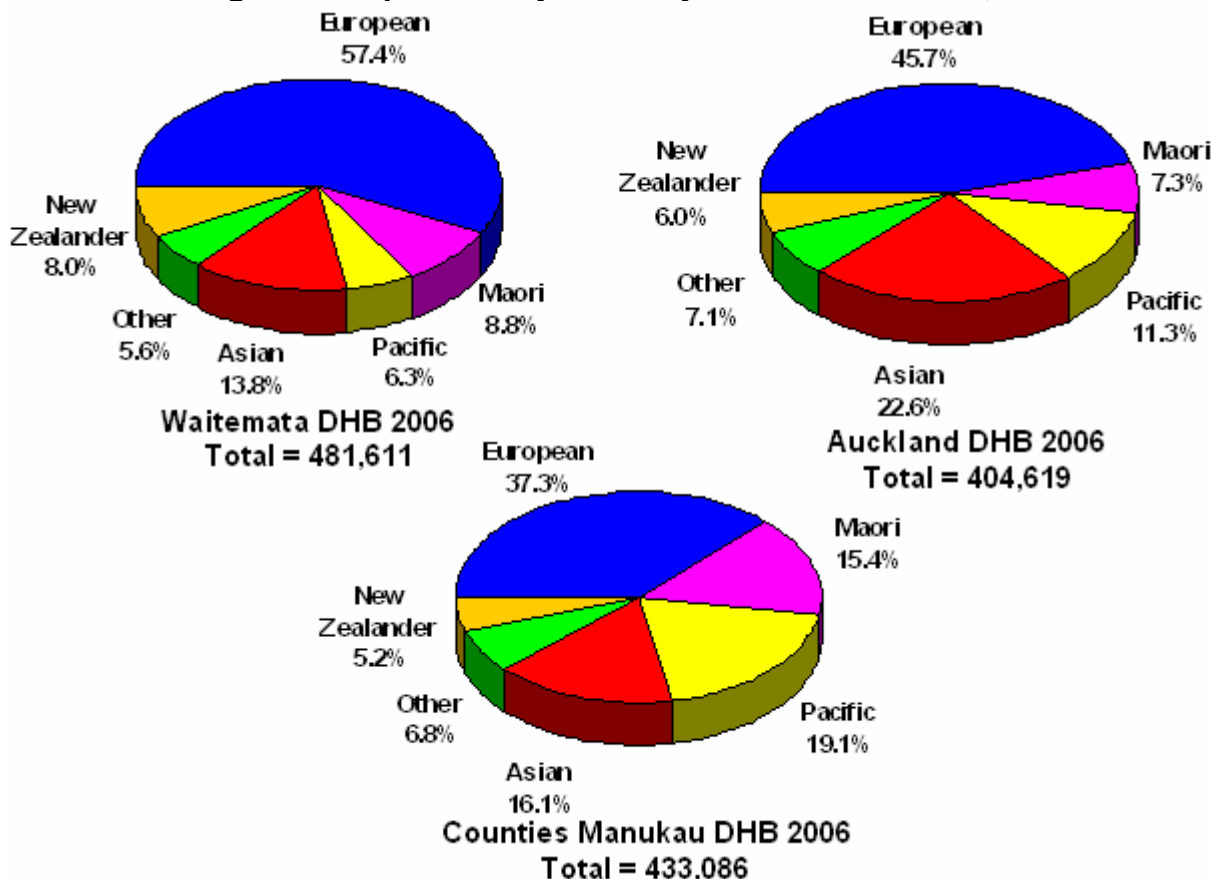
Table 3: Top Ten DHBs with the fastest growth of Asian

DHB	Asian 2001	Asian 2006	Number Change	% Change
Waitemata	41,850	68,151	26,301	62.8%
Counties Manukau	45,192	73,053	27,861	61.7%
Bay of Plenty	3,273	5,127	1,854	56.6%
Waikato	11,331	17,238	5,907	52.1%
Canterbury	18,720	28,359	9,639	51.5%
Auckland	64,911	93,519	28,608	44.1%
Taranaki	1,500	2,151	651	43.4%
West Coast	243	345	102	42.0%
Nelson Marlborough	1,617	2,271	654	40.4%
Southland	1,491	2,070	579	38.8%
Total respondent in NZ	238,176	354,549	116,373	48.9%

7. Asian Population in 3 Auckland DHBs

Figure 4 shows percent of population by ethnicity in the 3 Auckland DHBs in 2006. Auckland DHB had the highest percent of Asian population of 22.6% compared with other Auckland DHBs. Asian population in Counties Manukau DHB made up of 16.1% of their population and 13.8% of Waitemata DHB were Asian.

Figure 4: Population by Ethnicity in Auckland DHBs, 2006 Census



8. Asian Population by Age Group for Waitemata DHB

Figure 5 shows the percent of Asian population by age group. The age group between 15-44 years old made up of more than half of the Asian population in Waitemata DHB. This was a result of migration among working age groups and students. Older people aged 65+ years made up of less than 5% of the population.

Figure 5: Asian Population by Age Group Waitemata DHB, 2006

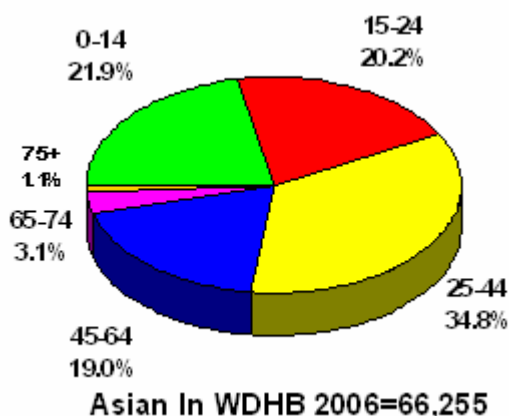


Chart below shows the population pyramid for Asian population in Waitemata DHB. The highest percent was among teenager aged 20-24 years old.

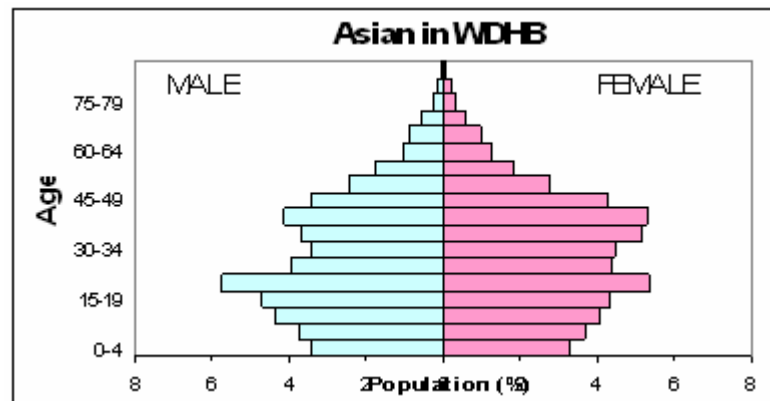


Table 4 shows the number and percent change of Asian population in Waitemata DHB between 2001 and 2006 by age group. The highest growth in number was among aged 25-44 years old. However, the fastest growth was among older people aged 65+ years old.

**Table 4: Asian Population Change by Age group
Waitemata DHB, 2006**

Waitemata DHB	2001	2006	Number Change	% change
0-14	9,642	14,478	4,836	50.16%
15-24	8,499	13,395	4,896	57.61%
25-44	13,656	23,025	9,369	68.61%
45-64	7,089	12,561	5,472	77.19%
65-74	1,053	2,055	1,002	95.16%
75+	411	741	330	80.29%
Total	40,350	66,255	25,905	64.20%

9. Asian Population by Culture Group, Waitemata DHB

Table 5 shows the number of people by culture group for Asian population in Waitemata DHB. Chinese had the highest number and made up of 40% of Asian population in this DHB. Indian was second largest group of 21.8% and Korean was the third largest group, made up of 17.7%.

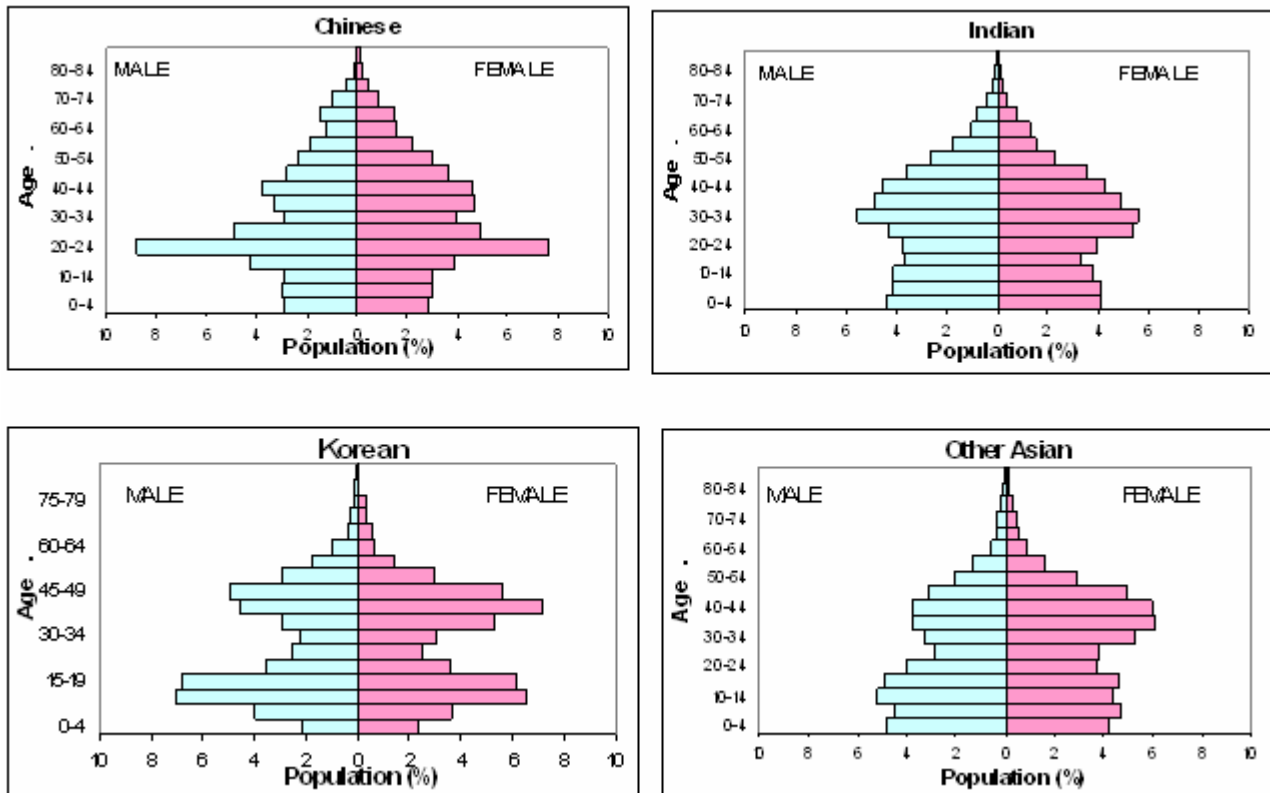
**Table 5: Asian Population by Culture group
Waitemata DHB, 2006**

Culture Group	Number	%
Chinese	27,330	39.6%
Indian	15,015	21.8%
Korean	12,210	17.7%
Filipino	4,941	7.2%
Japanese	1,827	2.7%
Sri Lankan	870	1.3%
Cambodian	810	1.2%
Vietnamese	267	0.4%
Other Asian	5,661	8.2%
Total Asian Respondent in WDHB	68,931	100.0%

10. Population Pyramid of Asian by Culture Group, Waitemata DHB

Figure 6 shows the Asian population by age group for different culture groups in Waitemata DHB. Chinese had the highest percent of population among 20-24 years old. High Percentages for Korean were found among teenager and working age group. The proportion for female was also higher than male. Age structure for Indian was familiar to the pattern of general population in Waitemata DHB.

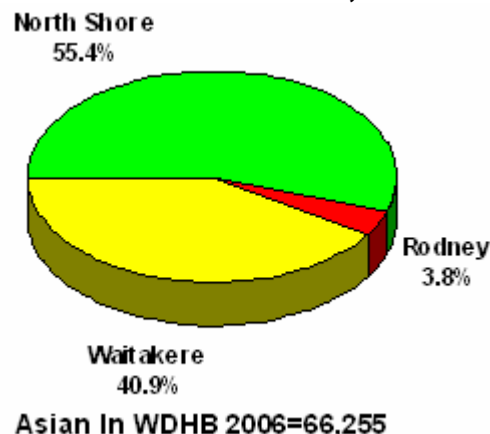
**Figure 6: Population Pyramid of Asian by Culture group
Waitemata DHB, 2006**



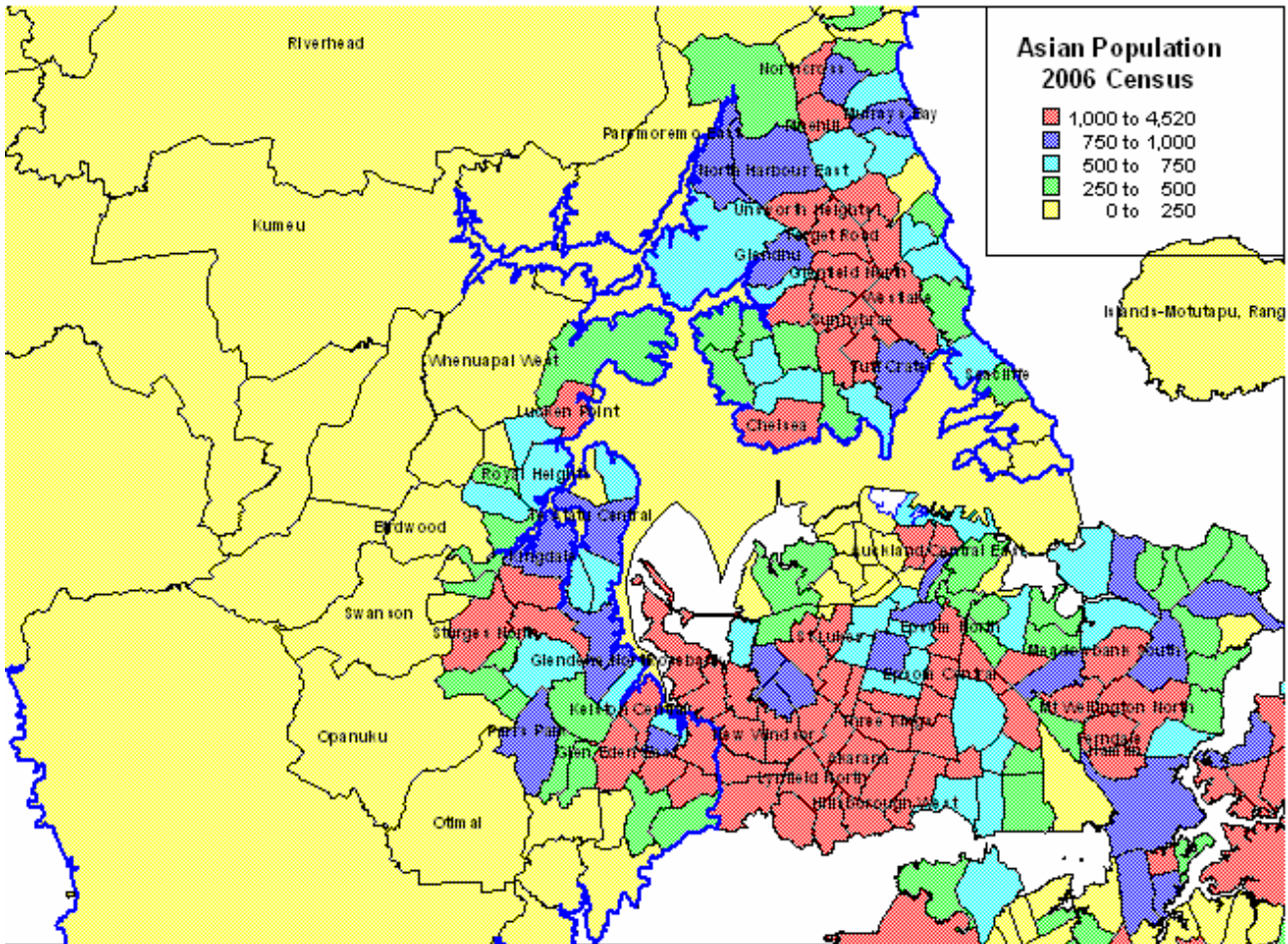
11. Domicile of Asian Population in Waitemata DHB

Figure 7 shows percent of Asian population in Waitemata DHB by TA. North Shore had the highest Asian population of 55.4%. The details of number of population by age group by ethnicity by TA are listed in Appendix A.

**Figure 7: Asian Population by Territorial Authority (TA)
Waitemata DHB, 2006**



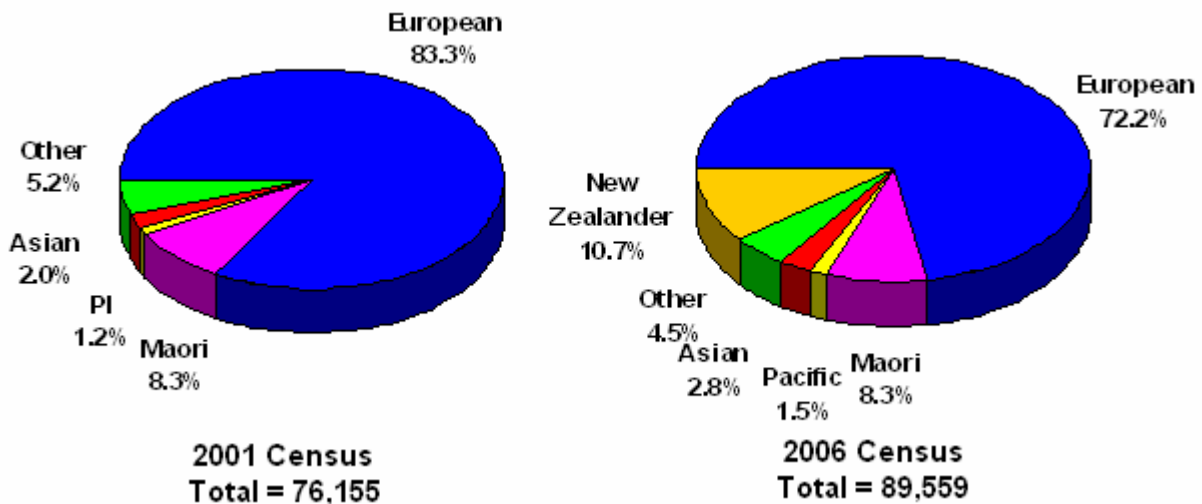
Map below shows the concentration of Asian people in Waitemata DHB for 2006.



12. Asian Population in Rodney District

There were 89,559 people lived in Rodney District in 2006, an increase of 17.6% from 2001. Figure 8 shows the number of people by ethnicity in Rodney District. Asian made up of only 2.8% of population in the district.

Figure 8: Population by Ethnicity, Rodney District, 2006



Map below shows the concentration of Asian people in Rodney District for 2006.

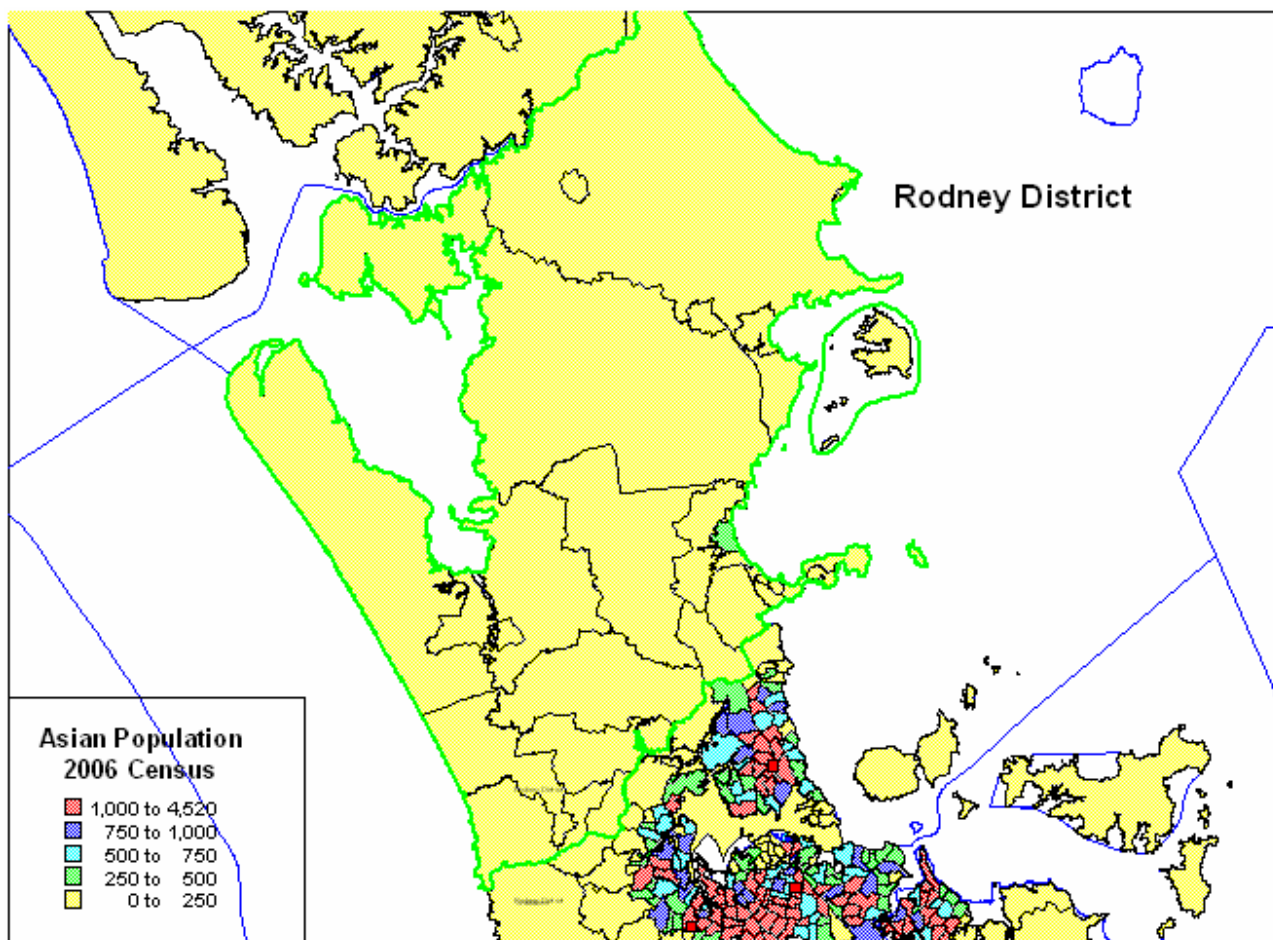


Table 6 shows the population change for Asian population in Rodney District between 2001 and 2006 by age group. There were 990 more Asian or 65.6% increase in 2006 compared with 2001. The highest growth in number of 303 people was found among population aged 25-44 years old. The fastest growth of 111.4% was found among people aged 45-64 years old.

**Table 6: Asian Population change by Age Group
Rodney District, 2001 and 2006**

Rodney	2001	2006	Number Change	% change
0-14	387	627	240	62.0%
15-24	306	414	108	35.3%
25-44	489	792	303	62.0%
45-64	264	558	294	111.4%
65-74	42	78	36	85.7%
75+	21	30	9	42.9%
Total	1,509	2,499	990	65.6%

Table 7 shows the Asian population by culture group in Rodney District. Chinese people made up of 32.6% of Asian population in Rodney. Korean was the second largest group, made up of 21.2%. Indian was the third largest group, made up of 20.7% of Asian people in this District.

**Table 7: Asian Population by Culture group
Rodney District, 2006**

Culture Group	Number	%
Chinese	867	32.6%
Korean	564	21.2%
Indian	549	20.7%
Japanese	192	7.2%
Filipino	156	5.9%
Sri Lankan	39	1.5%
Cambodian	33	1.2%
Vietnamese	21	0.8%
Other Asian	237	8.9%
Total Respondent	2,658	100.0%

13. Asian Population in North Shore City

There were 205,608 people lived in North Shore City in 2006, an increase of 11% from 2001. Figure 9 shows the number of people by ethnicity in North Shore City. Asian made up 17.8% of population in this city, the second largest population.

Figure 9: Population by Ethnicity, North Shore City, 2006

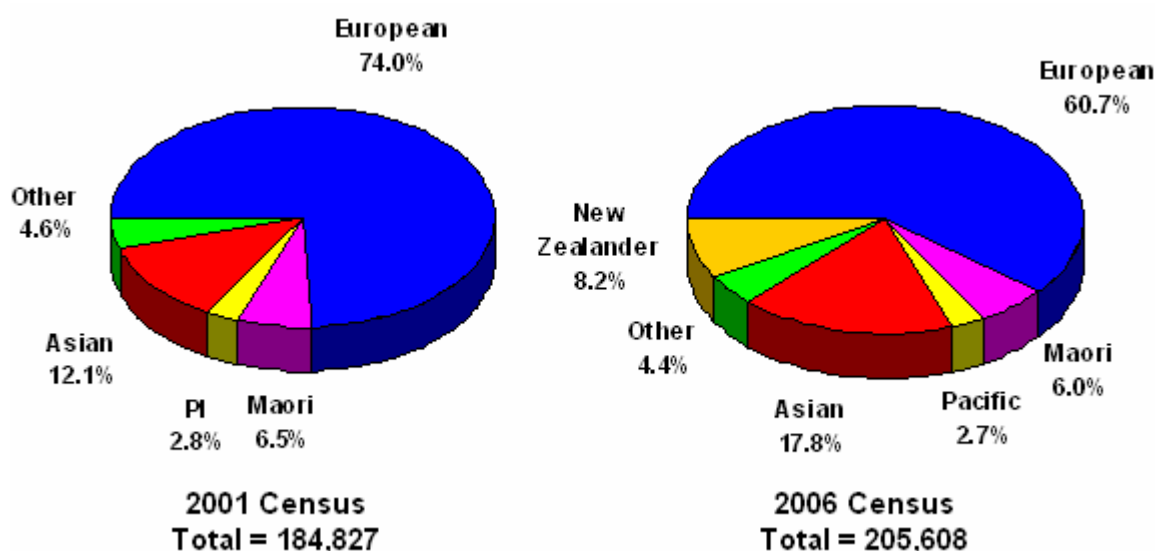


Table 9 shows the Asian population by culture group in North Shore City. Chinese people made up of 44.1% of Asian population in North Shore. Korean was the second largest group, followed by Indian.

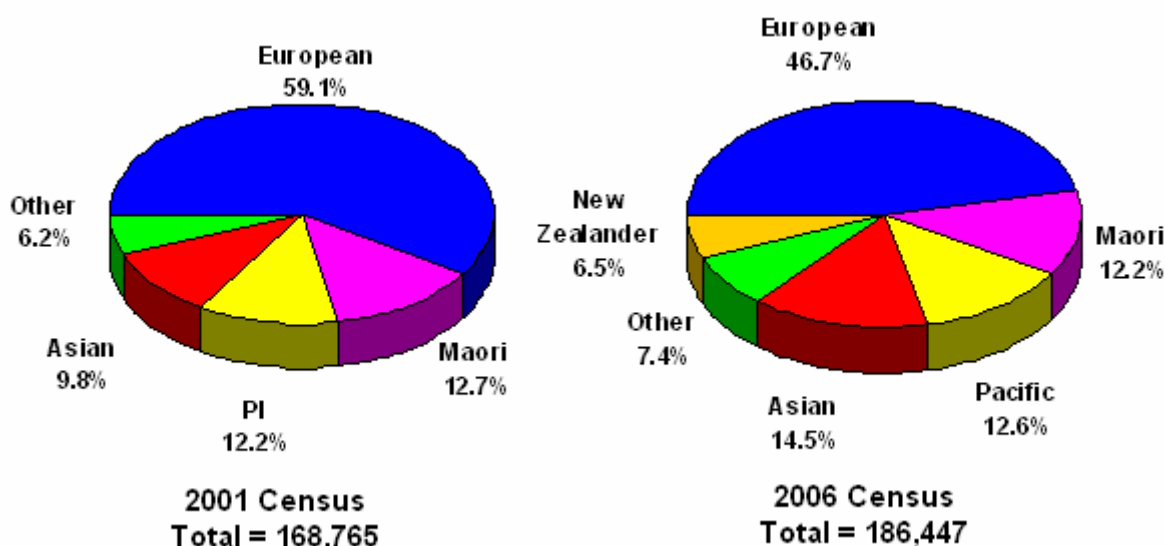
**Table 9: Asian Population by Culture group
North Shore City, 2006**

Culture Group	Number	%
Chinese	16,590	44.1%
Korean	8,976	23.9%
Indian	4,713	12.5%
Filipino	2,610	6.9%
Japanese	1,164	3.1%
Sri Lankan	387	1.0%
Cambodian	351	0.9%
Vietnamese	144	0.4%
Other Asian	2,649	7.0%
Total Respondent in North Shore	37,584	100.0%

14. Asian Population in Waitakere City

There were 186,447 people lived in Waitakere City in 2006, an increase of 10.5% from 2001. Figure 10 shows the number of people by ethnicity in Waitakere City. Asian made up 14.5% of population in this city, the second largest population.

Figure 10: Population by Ethnicity, Waitakere City, 2006



Map below shows the concentration of Asian people in Waitakere City for 2006.

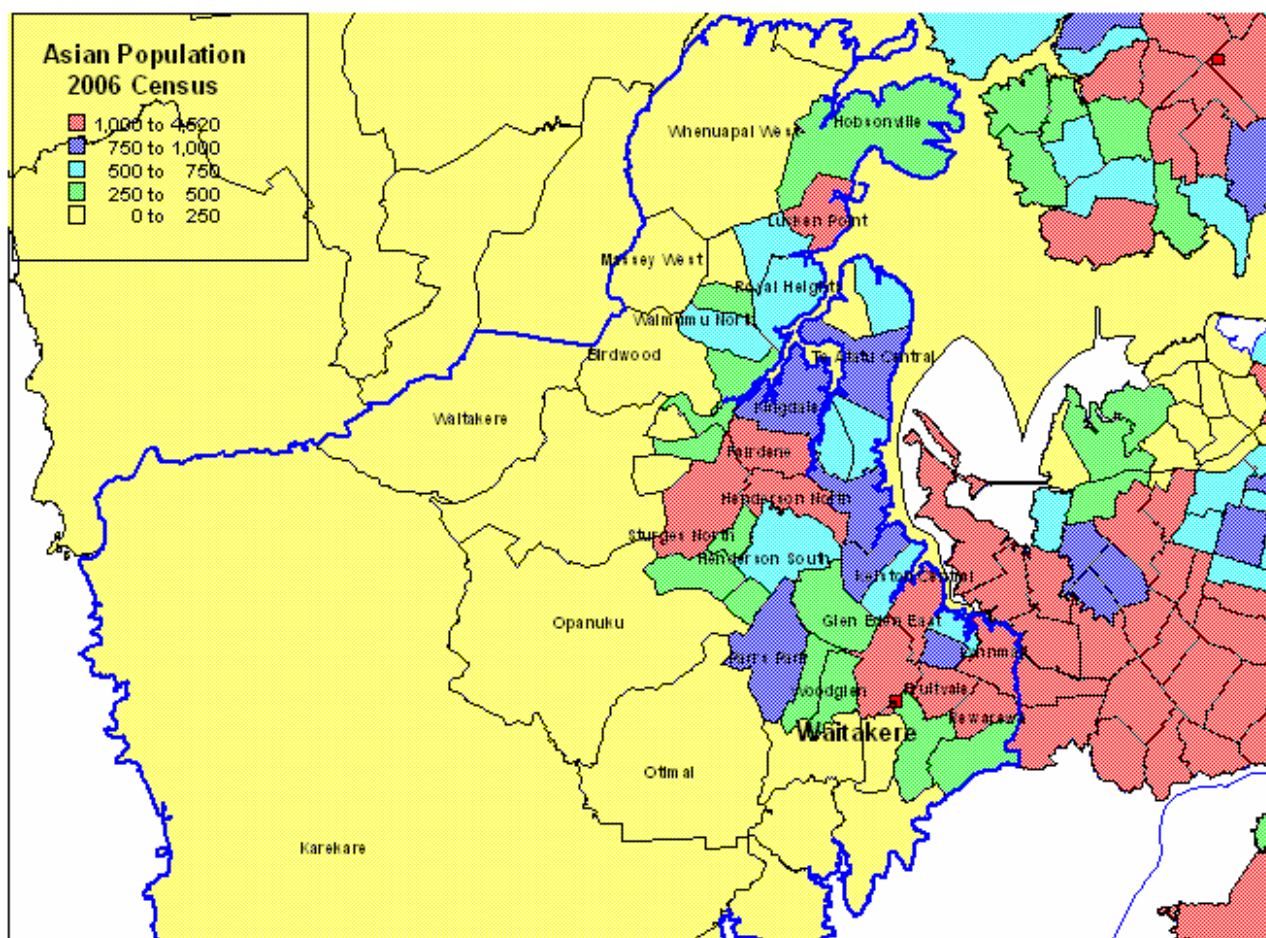


Table 10 shows the population change for Asian population in Waitakere City between 2001 and 2006 by age group. There were 10,551 more Asian or 63.9% increase in 2006 compared with 2001. The highest growth in number (of 3,945 people) was among people aged 25-44 years old. The fastest growth of 84.7% was among older people aged 75+ years old

**Table 10: Asian Population change by Age Group
Waitakere City, 2001 and 2006**

Waitakere	2001	2006	Number Change	% change
0-14	4,053	6,312	2,259	55.7%
15-24	3,180	4,647	1,467	46.1%
25-44	5,877	9,822	3,945	67.1%
45-64	2,757	5,088	2,331	84.5%
65-74	480	879	399	83.1%
75+	177	327	150	84.7%
Total	16,524	27,075	10,551	63.9%

Table 11 shows the Asian population by culture group in Waitakere City. Chinese people made up of 34.4% of Asian population in Waitakere City. Korean was the second largest group, followed by Indian.

**Table 11: Asian Population by Culture group
Waitakere City, 2006**

Culture Group	Number	%
Chinese	9,876	34.4%
Indian	9,756	34.0%
Korean	2,670	9.3%
Filipino	2,178	7.6%
Japanese	468	1.6%
Sri Lankan	441	1.5%
Cambodian	423	1.5%
Vietnamese	102	0.4%
Other Asian	2,775	9.7%
Total Respondent in Waitakere	28,689	100.0%

Section 2: Socio-Economic Status of Asian Population

Education

9.2% of Asian population aged 15 years and over had no formal education. Cambodian had the highest percentage of people with no education of 46% while Sri Lankan had the lowest percentage of 4%. For those with tertiary education, the result in table below shows that 28.6% of Asian aged 15 years and over in this DHB had tertiary education. Filipino had the highest percentage of people with Tertiary education of 41%.

**Table 12: Education by Culture group
Waitemata DHB, 2006**

Culture Group	No Education	Tertiary Education
Filipino	4.7%	41.0%
Cambodian	46.0%	5.2%
Vietnamese	26.5%	13.2%
Chinese	9.7%	29.1%
Indian	8.3%	32.9%
Sri Lankan	4.0%	36.7%
Japanese	7.0%	22.5%
Korean	6.4%	20.5%
Other Southeast Asian	16.4%	24.3%
Other Asian	12.7%	30.0%
Total Asian Ethnic Group	9.2%	28.6%

Unemployment

The unemployment rate among Asian people aged 15 years and over in Waitemata DHB was 5.1%. When broken down by culture group, the result shows that Vietnamese had the highest percent of people unemployed of 8.8% while Japanese had the lowest percentage of 3%.

**Table 13: Unemployment by Culture group
Waitemata DHB, 2006**

Culture Group	% Unemployment
Filipino	3.7%
Cambodian	4.7%
Vietnamese	8.8%
Chinese	5.9%
Indian	4.2%
Sri Lankan	6.7%
Japanese	3.0%
Korean	4.3%
Other Southeast Asian	5.5%
Other Asian	6.1%
Total Asian Ethnic Group	5.1%

Personal Income \$30,000 or more

26.1% of Asian population aged 15 years and over in Waitemata DHB had income \$30,000 or more per annum. When broken down by culture group, the result shows that Filipino had the highest percent of people with income \$30,000 or more (43.9%) while Cambodian had the lowest percentage of 14.2%.

**Table 14: Personal Income by Culture group
Waitemata DHB, 2006**

Culture Group	% income 30,000 +
Filipino	43.9%
Cambodian	14.2%
Vietnamese	20.3%
Chinese	20.4%
Indian	40.8%
Sri Lankan	37.6%
Japanese	25.1%
Korean	15.5%
Other Southeast Asian	26.2%
Other Asian	26.4%
Total Asian Ethnic Group	26.1%

People receiving Income Support

19% of Asian population aged 15 years and over in Waitemata DHB received income support. When broken down by culture group, the result shows that Cambodian had the highest percent of people on income support (30.3%) while Filipino had the lowest percentage of 13.8%.

**Table 15: Income Support by Culture group
Waitemata DHB, 2006**

Culture Group	% People on income support
Filipino	13.8%
Cambodian	30.3%
Vietnamese	27.5%
Chinese	19.7%
Indian	15.8%
Sri Lankan	22.6%
Japanese	15.1%
Korean	21.1%
Other Southeast Asian	18.0%
Other Asian	31.1%
Total Asian Ethnic Group	19.0%

People receiving Domestic purposes Benefit (DPB)

1.2% of Asian population aged 15 years and over in Waitemata DHB received domestic purposes benefit. When broken down by culture group, the result shows that Vietnamese had the highest percent of people on DPB (2.9%) while Korean had the lowest percentage of 0.8%.

**Table 16: Domestic purposes Benefit by Culture group
Waitemata DHB, 2006**

Culture Group	% on DPB
Filipino	1.3%
Cambodian	1.4%
Vietnamese	2.9%
Chinese	1.2%
Indian	1.4%
Sri Lankan	0.9%
Japanese	1.9%
Korean	0.8%
Other Southeast Asian	1.9%
Other Asian	1.6%
Total Asian Ethnic Group	1.2%

Section 3: Health Status of Asian Populations in Waitemata DHB 2006

Smoking

Questions on smoking were asked first time in the 1996 Census and were asked again in 2006 Census. Table 17 shows the percent of Asian aged 15 years and over who smoked regularly in 2006 compared with percent in 1996 by culture groups in Waitemata DHB. 10.2% of Asian in this DHB reported to be a regular smoker, 1.9% less than what was reported in 1996. When broken down by culture group, the percent in 2006 was less than percent in 1996 for almost all culture groups except among Chinese. The significant declines of percent people who were regular smoker were found among Japanese and Korean. However, Korean and Japanese still had the highest percent regular smoker in 2006 compared with other culture groups while Sri Lankan had the lowest percent.

**Table 17: Percent Asian who Smoked by Culture group
Waitemata DHB, 2006**

Culture Group	1996 Census	2006 Census
Filipino	8.9%	8.8%
Cambodian	14.0%	7.6%
Vietnamese	14.3%	10.3%
Chinese	10.0%	10.8%
Indian	10.0%	7.3%
Sri Lankan	6.7%	4.0%
Japanese	21.0%	12.8%
Korean	17.7%	12.9%
Other Southeast Asian	14.9%	11.1%
Other Asian	17.4%	11.1%
Total Asian Ethnic Group	12.1%	10.2%

Mortality

There were 7,856 people who lived in Waitemata DHB died between January 2001 and December 2003. Of these, 224 or 3% of them were Asian. 59.7% of all deaths were found among aged 75+ years old. It is important to note here that, it takes about 2-3 years before all causes of deaths can be coded. Therefore, 2003 mortality data is the most up to date available for analysis.

**Figure 11: Number of Deaths by age group
Waitemata DHB, Jan 2001-Dec 2003**

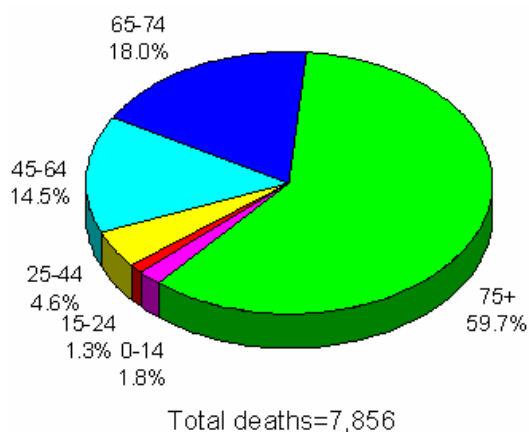


Figure 12 shows the number of death among Asian by age group between January 2001 and December 2003 in Waitemata DHB. Almost 46% of all deaths among Asian occurred before aged 65 years old.

**Figure 12: Number of Asian Deaths by age group
Waitemata DHB, Jan 2001-Dec 2003**

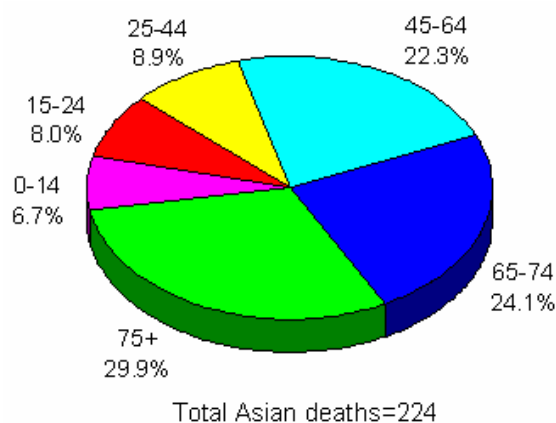
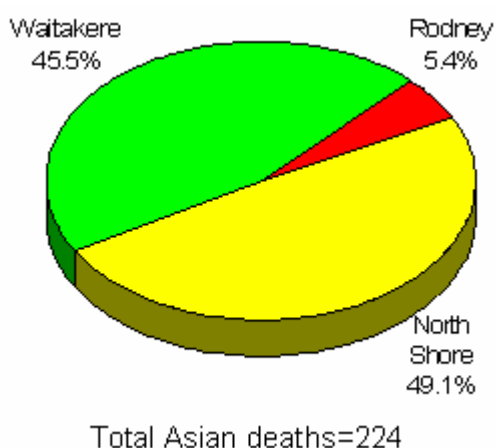


Figure below shows that almost half of all deaths among Asian were those who lived in North Shore City. 45.5% of them lived in Waitakere and 5.4% of them lived in Rodney District.

**Figure 13: Number of Asian Deaths by TA
Waitemata DHB, Jan 2001-Dec 2003**



Potentially Avoidable Mortality (PAM), 2001-2003

Potentially Avoidable Mortality is one of the analyses for measuring health improvement. It analyses the causal structure of health outcomes at the level of diseases and injuries by classifying these codes into avoidable and unavoidable categories. The concept of avoidability means responsiveness to health sector interventions (through prevention, early diagnosis or treatment). Based on this definition, all deaths after the age of 75 are considered unavoidable.

There were 157 Asian deaths occurred before age of 75 year in this DHB between 2001 and 2003. Of these, 104 or 66.2% were considered avoidable deaths. Table below shows top ten PAM for Asian people in Waitemata DHB. The highest percent of PAM was for Ischemic heart disease. Road traffic injury came second and Hepatitis and liver cancer came third among Asian.

**Table 18: Top Ten PAM for Asian Population
Waitemata DHB, Jan 2001-Dec 2003**

PAM	Asian	%
Ischemic heart disease	22	21.2%
Road traffic injury	14	13.5%
Hepatitis and liver cancer	10	9.6%
Lung cancers	10	9.6%
Diabetes	7	6.7%
Suicide	7	6.7%
Breast cancer	4	3.8%
Congenital anomalies	4	3.8%
Drowning	4	3.8%
Stroke	4	3.8%

Potentially Avoidable Mortality (PAM) 2001-2003 by Territorial Authority (TA)

There were 75 Asian deaths occurred before age of 75 year in North Shore City between 2001 and 2003. Of these, 53 or 70.7% were considered avoidable deaths. Table below shows top ten PAM for Asian people in North Shore City. The highest percent of PAM was for Ischemic heart disease. Road traffic injury came second and Lung cancer came third among Asian.

**Table 19: Top Ten PAM for Asian Population
North Shore City, Jan 2001-Dec 2003**

PAM	Asian	%
Ischemic heart disease	8	15.1%
Road traffic injury	7	13.2%
Lung cancers	6	11.3%
Hepatitis and liver cancer	5	9.4%
Drowning	4	7.5%
Suicide	4	7.5%
Breast cancer	3	5.7%
Colorectal cancer	2	3.8%
Diabetes	2	3.8%
Hodgkins disease	2	3.8%
Stomach cancer	2	3.8%

There were 76 Asian deaths occurred before age of 75 year in Waitakere City between 2001 and 2003. Of these, 47 or 61.8% were considered avoidable deaths. Table below shows all PAM for Asian people in Waitakere City. The highest percent of PAM was for Ischemic heart disease. Road traffic injury came second and Hepatitis and liver cancer came third among Asian.

Table 20: PAM for Asian Population Waitakere City, Jan 2001-Dec 2003

PAM	Asian	%
Ischemic heart disease	12	25.5%
Road traffic injury	7	14.9%
Hepatitis and liver cancer	5	10.6%
Diabetes	4	8.5%
Congenital anomalies	3	6.4%
Lung cancers	3	6.4%
Other perinatal conditions	3	6.4%
Stroke	3	6.4%
Suicide	3	6.4%
Appendicitis	1	2.1%
Breast cancer	1	2.1%
Hypertensive disease	1	2.1%
Sudden infant death syndrome	1	2.1%
PAM total	47	100%

There were only 6 Asian deaths occurred before age of 75 year in Rodney District between 2001 and 2003. Of these, 4 deaths were considered avoidable deaths. Two of them were Ischemic heart disease. One was death from diabetes and one was Lung cancer.

Hospital Utilisation, 2006

There were 101,507 discharges from any public hospitals in New Zealand between January and December 2006 for Waitemata DHB residents. Note that a person can have more than one discharge. Of these, 7,973 or 7.8% of them were Asian discharges. About 28% of all discharges were found among aged 65+ years old

Figure 14: Number of Discharges by age group Waitemata DHB, Jan-Dec 2006

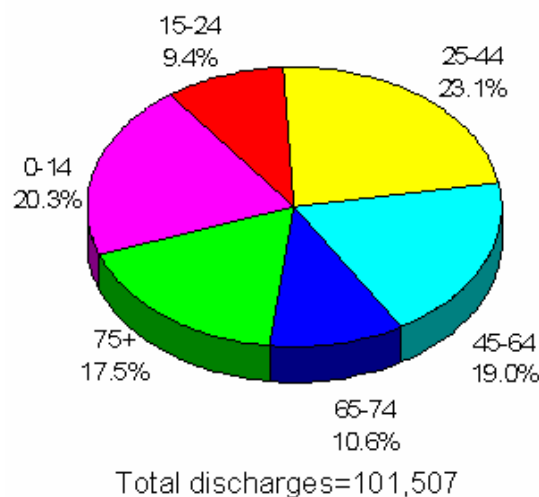


Figure 15 shows the number of discharges among Asian by age group between January and December 2006 in Waitemata DHB. Almost 70% of all discharges among Asian occurred before aged 45 years old.

Figure 15: Number of Asian Discharges by age group Waitemata DHB, Jan-Dec 2006

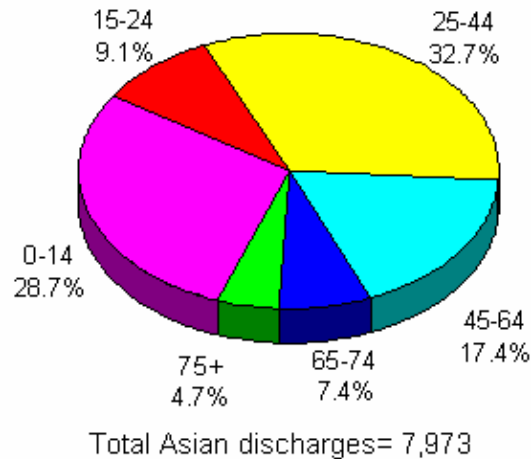
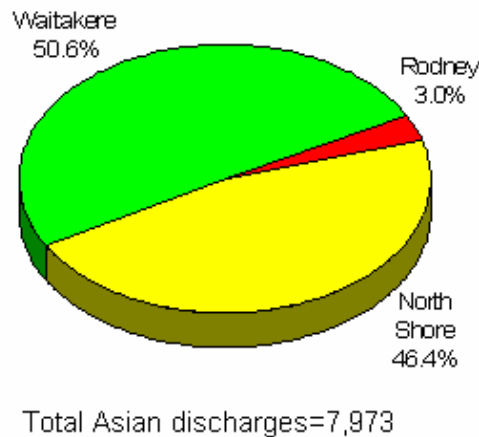


Figure below shows that about half of all discharges among Asian were those who lived in Waitakere City. 46.4% of them lived in North Shore and 3% of them lived in Rodney District.

Figure 16: Number of Asian Discharges by TA Waitemata DHB, Jan-Dec 2006



Potentially Avoidable Hospitalisation (PAH), 2006

The concept of avoidability can be extended from fetal to non-fetal outcomes. A Potentially Avoidable Hospitalisation (PAH) indicates the occurrence of an injury or severe illness that could, theoretically, have been avoided through

1. Population based health promotion strategies.
2. Intervention through primary health care setting

Based on this definition, all admissions after the age of 75 are considered unavoidable.

There were 7,602 discharges occurred before age of 75 year for Asian in WDHB in 2006. Of these, 1,492 or 19.6% were considered avoidable hospitalisation. Table below shows top ten PAH for Asian people in Waitemata DHB. The highest percent of PAH was for Angina and Chest pain. Asthma came second and Gastroenteritis came third among Asian.

**Table 21 Top Ten PAH for Asian Population
Waitemata DHB, Jan-Dec 2006**

PAH	Asian	%
24 Angina and chest pain	274	18.4%
29 Asthma	105	7.0%
11 Gastroenteritis	103	6.9%
30 Dental conditions	100	6.7%
10 a Myocardial infarction	90	6.0%
34 Kidney/urinary infection	80	5.4%
27 b Respiratory infections - Pneumonia	72	4.8%
35 Cellulites	71	4.8%
21 ENT infections	68	4.6%
18 Diabetes	62	4.2%

Potentially Avoidable Hospitalisation (PAH) 2006 by Territorial Authority (TA)

There were 3,518 discharges occurred before age of 75 year for Asian in North Shore in 2006. Of these, 648 or 18.4% were considered avoidable hospitalisation. Table below shows top ten PAH for Asian people in North Shore. The highest percent of PAH was for Angina and Chest pain. Dental conditions came second and Kidney/Urinary infection came third among Asian.

**Table 22: Top Ten PAH for Asian Population
North Shore, Jan-Dec 2006**

PAH	Asian	%
24 Angina and chest pain	123	19.0%
30 Dental conditions	49	7.6%
34 Kidney/urinary infection	45	6.9%
29 Asthma	35	5.4%
10 a Myocardial infarction	34	5.2%
11 Gastroenteritis	34	5.2%
35 Cellulites	34	5.2%
15 Sexually transmitted diseases	31	4.8%
27 b Respiratory infections - Pneumonia	29	4.5%
21 ENT infections	26	4.0%

There were 3,850 discharges occurred before age of 75 year for Asian in Waitakere in 2006. Of these, 789 or 20.5% were considered avoidable hospitalisation. Table below shows top ten PAH for Asian people in Waitakere City. The highest percent of PAH was for Angina and Chest pain. Gastroenteritis came second and Asthma came third among Asian.

**Table 23: Top Ten PAH for Asian Population
Waitakere City, Jan-Dec 2006**

PAH	Asian	%
24 Angina and chest pain	146	18.5%
11 Gastroenteritis	66	8.4%
29 Asthma	65	8.2%
10 a Myocardial infarction	52	6.6%
30 Dental conditions	44	5.6%
18 Diabetes	39	4.9%
21 ENT infections	39	4.9%
27 b Respiratory infections - Pneumonia	39	4.9%
35 Cellulitis	33	4.2%
34 Kidney/urinary infection	29	3.7%

There were 243 discharges occurred before age of 75 year for Asian in Rodney District in 2006. Of these, 84 or 34.6% were considered avoidable hospitalisation. Table below shows top ten PAH for Asian people in Rodney. The highest percent of PAH was for Dental Condition. Kidney/urinary infection came second and Angina and chest pain came third among Asian.

**Table 24: Top Ten PAH for Asian Population
Rodney District, Jan-Dec 2006**

PAH	Asian	%
30 Dental conditions	7	13.2%
34 Kidney/urinary infection	6	11.3%
24 Angina and chest pain	5	9.4%
29 Asthma	5	9.4%
10 a Myocardial infarction	4	7.5%
20 Epilepsy	4	7.5%
27 b Respiratory infections - Pneumonia	4	7.5%
18 Diabetes	3	5.7%
21 ENT infections	3	5.7%
35 Cellulites	3	5.7%

Appendix A: Number of Population by Age group by Ethnicity

New Zealand	European	Maori	PI	Asian	New Zealander	Other	Total
Less than 1	25,356	13,917	5,127	4,584	4,362	3,285	56,631
1-4	100,833	52,020	20,034	16,689	17,391	11,481	218,448
5-9	134,133	66,399	25,350	22,938	23,580	14,088	286,488
10-14	151,143	66,441	24,993	26,268	22,854	14,310	306,009
15-19	155,415	58,311	22,803	30,657	17,406	15,606	300,198
20-24	130,716	42,636	17,883	44,529	17,379	17,835	270,978
25-29	120,369	38,010	16,716	31,266	20,037	16,041	242,439
30-34	149,757	39,351	16,653	27,018	27,891	15,891	276,561
35-39	169,560	38,511	17,028	28,380	32,007	16,068	301,554
40-44	181,053	37,179	15,150	30,147	34,722	15,447	313,698
45-49	176,415	31,833	12,012	24,426	34,761	13,974	293,421
50-54	157,809	24,129	9,645	17,673	31,977	11,496	252,729
55-59	154,713	18,594	7,410	12,231	30,537	10,089	233,574
60-64	123,987	12,777	5,469	8,193	21,786	7,404	179,616
65-69	105,651	10,131	4,230	6,858	15,651	6,024	148,545
70-74	88,704	6,498	2,673	4,533	9,903	4,623	116,934
75-79	82,926	3,801	1,686	2,403	6,375	4,023	101,214
80-84	61,788	1,764	870	1,239	3,657	2,922	72,240
85+	49,731	882	468	762	2,592	2,232	56,667
Total	2,320,059	563,184	226,200	340,794	374,868	202,839	4,027,944

Waitemata DHB	European	Maori	PI	Asian	New Zealander	Other	Total
0-1	3,120	1,080	687	921	510	456	6,774
1-4	12,480	4,029	2,775	3,288	2,019	1,533	26,124
5-9	16,938	5,052	3,435	4,758	2,598	2,031	34,812
10-14	18,582	4,977	3,291	5,511	2,427	2,055	36,843
15-19	18,648	4,560	3,000	5,961	1,824	2,097	36,090
20-24	14,781	3,270	2,310	7,434	1,815	2,007	31,617
25-29	13,521	3,063	2,268	5,553	2,085	2,019	28,509
30-34	18,429	3,246	2,271	5,229	3,093	2,196	34,464
35-39	22,236	3,141	2,379	5,937	3,528	2,478	39,699
40-44	23,286	2,817	2,133	6,306	3,576	2,322	40,440
45-49	21,471	2,418	1,638	5,163	3,495	1,875	36,060
50-54	18,510	1,653	1,317	3,525	3,075	1,473	29,553
55-59	18,135	1,251	1,008	2,370	3,078	1,269	27,111
60-64	14,583	801	672	1,503	2,145	867	20,571
65-69	11,733	552	510	1,263	1,449	705	16,212
70-74	9,477	318	333	792	885	525	12,330
75-79	8,790	216	207	423	603	477	10,716
80-84	6,639	99	87	201	342	339	7,707
85+	5,277	60	57	117	204	264	5,979
Total	276,636	42,603	30,378	66,255	38,751	26,988	481,611

North Shore	European	Maori	PI	Asian	New Zealander	Other	Total
0-4	6,861	1,410	654	2,028	1,041	570	12,564
5-9	7,290	1,335	618	2,445	1,026	642	13,356
10-14	8,193	1,317	564	3,048	1,053	672	14,847
15-19	8,838	1,362	546	3,624	819	777	15,966
20-24	7,659	1,152	462	4,698	912	801	15,684
25-29	6,618	1,026	414	3,141	951	675	12,825
30-34	8,454	948	399	2,646	1,365	705	14,517
35-39	9,810	951	480	3,090	1,473	870	16,674
40-44	10,293	810	408	3,543	1,497	780	17,331
45-49	9,738	663	285	2,913	1,503	654	15,756
50-54	8,523	465	240	1,938	1,386	507	13,059
55-59	8,190	381	165	1,314	1,443	387	11,880
60-64	6,474	249	114	762	984	315	8,898
65-69	4,869	162	93	675	591	225	6,615
70-74	3,762	78	57	426	369	168	4,860
75-79	3,663	63	33	228	258	156	4,401
80-84	3,009	27	15	102	177	114	3,444
85+	2,634	24	15	60	108	90	2,931
Total	124,878	12,423	5,562	36,681	16,956	9,108	205,608

Waitakere	European	Maori	PI	Asian	New Zealander	Other	Total
0-4	5,022	2,862	2,658	2,034	903	1,176	14,655
5-9	5,160	2,763	2,652	2,109	861	1,125	14,670
10-14	5,571	2,694	2,589	2,169	720	1,092	14,835
15-19	5,703	2,430	2,337	2,076	558	1,074	14,178
20-24	4,698	1,704	1,764	2,571	606	1,053	12,396
25-29	4,710	1,632	1,770	2,265	768	1,116	12,261
30-34	6,411	1,752	1,773	2,430	1,131	1,170	14,667
35-39	7,386	1,617	1,791	2,604	1,227	1,203	15,828
40-44	7,518	1,473	1,644	2,523	1,158	1,152	15,468
45-49	6,738	1,281	1,281	2,019	1,137	912	13,368
50-54	5,673	867	1,014	1,440	891	657	10,542
55-59	5,619	603	810	966	834	609	9,441
60-64	4,296	381	534	663	552	360	6,786
65-69	3,582	285	390	546	336	360	5,499
70-74	3,033	168	252	333	225	279	4,290
75-79	2,709	108	165	177	141	246	3,546
80-84	1,941	42	66	96	75	168	2,388
85+	1,332	27	42	54	45	129	1,629
Total	87,102	22,689	23,532	27,075	12,168	13,881	186,447

Rodney	European	Maori	PI	Asian	New Zealander	Other	Total
0-4	3,720	837	150	147	582	240	5,676
5-9	4,494	960	156	201	711	264	6,786
10-14	4,818	960	147	279	657	300	7,161
15-19	4,107	762	120	255	450	252	5,946
20-24	2,427	408	81	159	300	165	3,540
25-29	2,190	411	81	147	366	225	3,420
30-34	3,561	546	108	162	594	312	5,283
35-39	5,046	555	108	243	831	411	7,194
40-44	5,478	525	90	240	921	387	7,641
45-49	5,001	474	75	237	852	297	6,936
50-54	4,314	312	60	153	798	312	5,949
55-59	4,329	261	36	96	801	264	5,787
60-64	3,813	162	30	72	606	207	4,890
65-69	3,285	102	30	42	519	123	4,101
70-74	2,685	66	21	36	297	75	3,180
75-79	2,418	45	9	18	201	81	2,772
80-84	1,689	24	9	9	90	54	1,875
85+	1,305	12	6	3	51	45	1,422
Total	64,680	7,422	1,317	2,499	9,627	4,014	89,559

Appendix B: Number of Asian population by DHB in 2006

DHB	Asian	%
3 Auckland	93,519	26.4%
4 Counties Manukau	73,053	20.6%
2 Waitemata	68,151	19.2%
18 Canterbury	28,359	8.0%
14 Capital and Coast	25,758	7.3%
5 Waikato	17,238	4.9%
13 Hutt	9,882	2.8%
12 Midcentral	7,002	2.0%
20 Otago	6,876	1.9%
7 Bay of Plenty	5,127	1.4%
10 Hawke's Bay	3,516	1.0%
6 Lakes	3,273	0.9%
1 Northland	2,580	0.7%
16 Nelson Marlborough	2,271	0.6%
9 Taranaki	2,151	0.6%
21 Southland	2,070	0.6%
11 Whanganui	1,254	0.4%
19 South Canterbury	795	0.2%
8 Tairāwhiti	729	0.2%
15 Wairarapa	582	0.2%
17 West Coast	345	0.1%
99 Area outside DHB	24	0.0%
Total Respondents	354,549	100.0%

Appendix C: Change in Asian Population by DHB in 2006

DHB	Asian 2001	Asian 2006	Number Change	% Change
01 Northland	1,998	2,580	582	29.1%
02 Waitemata	41,850	68,151	26,301	62.8%
03 Auckland	64,911	93,519	28,608	44.1%
04 Counties Manukau	45,192	73,053	27,861	61.7%
05 Waikato	11,331	17,238	5,907	52.1%
06 Lakes	2,403	3,273	870	36.2%
07 Bay of Plenty	3,273	5,127	1,854	56.6%
08 Tairāwhiti	624	729	105	16.8%
09 Taranaki	1,500	2,151	651	43.4%
10 Hawke's Bay	2,940	3,516	576	19.6%
11 Whanganui	993	1,254	261	26.3%
12 Midcentral	5,709	7,002	1,293	22.6%
13 Hutt	7,734	9,882	2,148	27.8%
14 Capital and Coast	19,293	25,758	6,465	33.5%
15 Wairarapa	510	582	72	14.1%
16 Nelson Marlborough	1,617	2,271	654	40.4%
17 West Coast	243	345	102	42.0%
18 Canterbury	18,720	28,359	9,639	51.5%
19 South Canterbury	702	795	93	13.2%
20 Otago	5,136	6,876	1,740	33.9%
21 Southland	1,491	2,070	579	38.8%
99 Area outside District Health Board	9	24	15	166.7%
Total	238,176	354,549	116,373	48.9%