

Smoking Prevalence Rates Census 2006

**Public Health Intelligence
Ministry of Health**

**District Health Board Report
Auckland**

Introduction

The following report presents estimates of smoking prevalence in your District Health Board from the Census 2006. These tables will be placed on PHI online www.phionline.moh.govt.nz and will be available in early 2008. Information from the Year 10 survey and data from the Quitline around usage and providers is currently available on PHI online.

PHI is also currently looking into statistical modelling techniques to provide estimates of prevalence using the NZTUS and the Census for years to come and for indicators not measured by the Census.

If you have any queries about your report, please contact:

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The Census 2006

The census 2006 is the most representative and accurate data for the prevalence of smoking. Currently, this is the only data that provides representative breakdowns of smoking rates by DHB.

Notes on definitions

Two questions were asked in the Census (1996) to determine smoking status (note: these questions were not asked in the 2001 Census):

1. Do you smoke cigarettes regularly?
2. Have you ever been a regular smoker of one or more cigarettes a day?

Smoking of pipes, cigars and cigarillos, other smoked substances such as marijuana and tobacco used for chewing are not included in these definitions.

Non-response rates

The 2006 Census reported a non-response rate of 5.2%; the 1996 Census reported a non-response rate of 7.2%.

Prevalence of Smoking (Census 1996)

The prevalence of smoking reported in the 1996 Census, is as follows: Regular smokers, 23.7%; ex-smokers, 22.0%; never smoked regularly, 54.2%.

Prevalence of Smoking (Census 2006)

The prevalence of smoking reported in the 2006 Census, is as follows: Regular smokers, 20.7%; ex-smokers, 22.1%; never smoked regularly, 57.2%. Further breakdowns of the 2006 Census are presented below.

Table 1: Comparison of regular smokers, ex-smokers and never smoked regularly smokers (%) across all DHBs, 15+ years.

DHB	Regular smokers	Ex-smokers	Never smoked regularly
Auckland	16.5%	18.4%	65.1%
Bay of Plenty	22.3%	25.4%	52.3%
Canterbury	18.8%	22.8%	58.4%
Capital and Coast	17.3%	22.2%	60.5%
Counties Manukau	22.1%	17.0%	60.8%
Hawke's Bay	24.8%	24.2%	51.0%
Hutt	22.9%	22.4%	54.7%
Lakes	27.2%	23.8%	49.0%
Midcentral	22.7%	22.2%	55.2%
Nelson Marlborough	19.3%	26.3%	54.4%
Northland	25.7%	25.6%	48.7%
Otago	19.4%	23.4%	57.2%
South Canterbury	21.2%	24.8%	54.0%
Southland	23.8%	23.4%	52.8%
Tairāwhiti	29.7%	22.3%	48.0%
Taranaki	22.4%	23.5%	54.1%
Waikato	22.6%	22.1%	55.3%
Wairarapa	23.5%	26.4%	50.1%
Waitemata	17.4%	21.8%	60.8%
West Coast	25.7%	24.3%	50.0%
Whanganui	26.3%	23.3%	50.4%
New Zealand	20.7%	22.1%	57.2%

The prevalence of regular smokers in Auckland is 16.5%; compared to the New Zealand prevalence of 20.7%, this is relatively low. Auckland DHB has the lowest rate of smoking in the country.

Regular smokers:

The definition of a *regular smoker* used for the census is someone who smokes cigarettes regularly ie. one or more cigarettes a day.

Table 2: Prevalence of regular smokers (%), by gender and age group

	Females	Males	Auckland total	NZ total
15-19 years	12.3%	12.3%	12.3%	18.8%
20-24 years	18.2%	26.3%	22.1%	29.8%
25-29 years	17.4%	25.4%	21.3%	28.6%
30-39 years	14.2%	21.8%	17.9%	25.6%
40-49 years	14.6%	20.8%	17.6%	23.3%
50-59 years	13.1%	18.2%	15.6%	18.7%
60-64 years	11.5%	14.8%	13.1%	15.2%
65+ years	6.4%	9.3%	7.7%	8.0%
Auckland total	13.7%	19.6%	16.5%	
NZ total	19.5%	21.9%		20.7%

Notes: Auckland and NZ totals refer to the population aged 15+ years.

More males than females smoke regularly in Auckland, 19.6% compared to 13.7%, respectively. Higher rates of smoking are seen among 20-29 year olds, compared to other age groups; more males smoke in these age groups compared to females also.

Table 3: Prevalence of regular smokers 15+ years (%), by gender and ethnicity

	Females	Males	Auckland total	NZ total
European	14.3%	17.3%	15.7%	19.4%
Maori	38.7%	35.0%	37.0%	42.2%
Pacific peoples	24.6%	33.8%	28.9%	30.3%
Asian	4.7%	18.1%	11.1%	11.1%
MELAA	8.9%	19.1%	14.5%	15.1%
Other ethnicity	12.5%	14.7%	13.7%	16.6%
Auckland total	13.7%	19.6%	16.5%	
NZ total	19.6%	21.9%		20.7%

Notes: Ethnicity presented is based on grouped total response
MELAA stands for Middle Eastern, Latin American, African

Higher rates of smoking are observed among Maori (37.0%) and Pacific peoples (28.9%) in Auckland, compared to other ethnicities. Consistent with national patterns of prevalence, the percentage of Maori females who regularly smoke is higher than Maori males; while the percentage of Pacific males who regularly smoke is higher than the percentage of Pacific females who regularly smoke.

Table 4: Prevalence of regular smokers (%), by age group and ethnicity

	European	Maori	Pacific peoples	Asian	MELAA	Other ethnicity	Auckland total	NZ total
15-19 years	13.6%	31.3%	18.9%	4.5%	7.8%	9.9%	12.3%	18.8%
20-24 years	23.0%	41.5%	37.1%	16.4%	16.4%	20.0%	22.1%	29.8%
25-29 years	20.7%	39.5%	37.5%	15.6%	13.4%	18.5%	21.3%	28.6%
30-39 years	16.7%	39.1%	32.6%	11.4%	15.0%	15.5%	17.9%	25.6%
40-49 years	16.9%	41.3%	31.9%	10.0%	18.6%	14.2%	17.6%	23.3%
50-59 years	15.5%	35.3%	26.2%	8.3%	14.4%	11.8%	15.6%	18.7%
60-64 years	13.6%	28.8%	20.3%	5.3%	-	9.4%	13.1%	15.2%
65+ years	7.4%	19.6%	12.6%	5.9%	-	6.0%	7.7%	8.0%
Auckland total	15.7%	37.0%	28.9%	11.1%	14.4%	13.7%	16.5%	
NZ total	19.4%	42.2%	30.3%	11.1%	15.1%	16.6%		20.7%

Notes: Auckland and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15

Table 5: Prevalence of regular smokers (%), by ethnicity, gender and age group

	European		Maori		Pacific peoples		Asian		MELAA		Other ethnicity		Auck-land total	NZ total
	females	males	females	males	females	males	females	males	females	males	females	males		
15-19 years	14.4%	12.8%	34.4%	27.4%	19.7%	18.3%	2.9%	6.1%	6.7%	7.1%	9.0%	11.7%	12.3%	18.8%
20-24 years	22.0%	24.1%	42.3%	40.8%	34.4%	39.8%	8.7%	24.6%	11.2%	21.4%	16.4%	23.0%	22.1%	29.8%
25-29 years	18.6%	22.9%	40.2%	37.9%	34.3%	41.1%	7.2%	24.9%	10.9%	16.8%	17.4%	19.4%	21.3%	28.6%
30-39 years	14.5%	19.0%	40.1%	37.6%	27.8%	38.2%	4.5%	20.0%	5.8%	21.4%	13.8%	17.0%	17.9%	25.6%
40-49 years	15.8%	18.1%	43.9%	38.3%	25.9%	38.7%	3.0%	17.8%	10.7%	25.3%	13.5%	14.9%	17.6%	23.3%
50-59 years	14.0%	17.1%	37.2%	32.6%	18.0%	35.4%	2.0%	14.7%	10.2%	21.9%	11.2%	12.2%	15.6%	18.7%
60-64 years	12.8%	14.6%	33.3%	23.0%	12.8%	29.8%	-	10.0%	-	-	9.8%	8.7%	13.1%	15.2%
65+ years	6.5%	8.7%	19.5%	19.3%	7.3%	19.1%	2.6%	9.0%	-	-	6.3%	5.7%	7.7%	8.0%
Auckland total	14.3%	17.3%	38.7%	35.0%	24.6%	33.8%	4.7%	18.1%	8.9%	19.1%	12.5%	14.7%	16.5%	
NZ total	18.6%	20.3%	45.5%	38.5%	27.3%	33.5%	4.8%	18.1%	9.6%	20.3%	15.8%	17.4%		20.7%

Notes: Auckland and NZ totals refer to the population aged 15+ years.
 Ethnicity presented is based on grouped total response
 MELAA stands for Middle Eastern, Latin American, African
 Boxes with dashes represent rates that have been suppressed due to counts less than 15

Ex-smokers:

An *ex-smoker* is defined as someone who used to smoke regularly, but no longer does

Table 6: Prevalence of ex-smokers (%), by gender and age group

	Females	Males	Auckland total	NZ total
15-19 years	4.1%	3.3%	3.7%	4.6%
20-24 years	10.5%	9.8%	10.1%	11.3%
25-29 years	16.0%	15.2%	15.6%	16.2%
30-39 years	17.4%	16.5%	17.0%	19.1%
40-49 years	18.5%	20.0%	19.2%	22.3%
50-59 years	22.2%	26.9%	24.5%	27.6%
60-64 years	24.6%	33.1%	28.8%	32.9%
65+ years	22.0%	40.3%	30.0%	35.1%
Auckland total	17.1%	19.8%	18.4%	
NZ total	20.3%	24.0%		22.1%

Notes: Auckland and NZ totals refer to the population aged 15+ years.

The prevalence of ex-smokers in Auckland is 18.4, compared to the national prevalence of ex-smokers, 22.1%. Higher percentages of ex-smokers are aged 50 years and over. The percentage of male ex-smokers is higher than female ex-smokers in these older age groups, particularly in the 65 plus age group.

Table 7: Prevalence of ex-smokers 15 + years (%), by gender and ethnicity

	Females	Males	Auckland total	NZ total
European	23.5%	24.9%	24.2%	24.5%
Maori	20.6%	18.3%	19.5%	19.1%
Pacific peoples	9.8%	10.8%	10.3%	10.8%
Asian	3.6%	10.2%	6.7%	7.2%
MELAA	10.7%	15.5%	13.3%	12.8%
Other ethnicity	24.1%	25.1%	24.6%	26.5%
Auckland total	17.1%	19.8%	18.4%	
NZ total	20.3%	24.0%		22.1%

Notes: Ethnicity presented is based on grouped total response
MELAA stands for Middle Eastern, Latin American, African

Higher prevalences of ex-smokers are observed among European (24.2%) and other ethnic groups (24.6%) in Auckland.

Table 8: Prevalence of ex-smokers (%), by age group and ethnicity

	European	Maori	Pacific peoples	Asian	MELAA	Other ethnicity	Auckland total	NZ total
15-19 years	5.1%	5.5%	3.3%	1.6%	2.6%	3.5%	3.7%	4.6%
20-24 years	14.4%	13.9%	9.3%	5.1%	10.0%	14.2%	10.1%	11.3%
25-29 years	21.0%	18.4%	11.9%	7.6%	13.0%	19.5%	15.6%	16.2%
30-39 years	22.1%	19.0%	10.9%	7.2%	14.6%	20.6%	17.0%	19.1%
40-49 years	25.0%	24.2%	11.2%	7.5%	16.2%	25.8%	19.2%	22.3%
50-59 years	29.7%	28.3%	12.4%	8.8%	22.0%	31.6%	24.5%	27.6%
60-64 years	33.9%	33.2%	13.1%	9.7%	-	37.1%	28.8%	32.9%
65+ years	34.0%	31.7%	14.8%	10.3%	17.6%	36.8%	30.0%	35.1%
Auckland total	24.2%	19.5%	10.3%	6.7%	13.3%	24.6%	18.4%	
NZ total	24.5%	19.1%	10.8%	7.2%	12.8%	26.5%		22.1%

Notes: Auckland and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

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Table 9: Prevalence of ex-smokers (%), by ethnicity, gender and age group

	European		Maori		Pacific peoples		Asian		MELAA		Other ethnicity		Auck-land total	NZ total
	females	males	females	males	females	males	females	males	females	males	females	males		
15-19 years	5.6%	4.5%	7.4%	3.4%	3.6%	3.1%	1.3%	1.9%	-	-	3.6%	2.4%	3.7%	4.6%
20-24 years	15.2%	13.6%	15.7%	11.3%	11.3%	7.5%	4.3%	6.1%	10.3%	8.9%	16.4%	12.4%	10.1%	11.3%
25-29 years	22.5%	19.4%	21.6%	15.6%	12.9%	10.9%	5.6%	9.6%	11.8%	15.2%	20.8%	18.4%	15.6%	16.2%
30-39 years	24.4%	19.6%	22.1%	15.7%	10.9%	10.9%	4.3%	10.8%	13.6%	15.3%	22.2%	19.2%	17.0%	19.1%
40-49 years	26.6%	23.4%	24.5%	24.0%	10.4%	12.2%	2.7%	13.1%	11.5%	20.0%	26.2%	25.1%	19.2%	22.3%
50-59 years	28.7%	30.8%	27.6%	28.7%	9.7%	15.2%	2.4%	15.5%	12.2%	25.0%	30.4%	32.8%	24.5%	27.6%
60-64 years	31.2%	36.6%	30.6%	35.0%	8.0%	18.0%	2.8%	17.5%	-	-	31.4%	42.2%	28.8%	32.9%
65+ years	25.5%	45.4%	23.0%	42.0%	10.6%	20.7%	4.0%	17.7%	20.8%	36.8%	27.1%	47.3%	30.0%	35.1%
Auckland total	23.5%	24.8%	20.6%	18.3%	9.8%	10.8%	3.6%	10.2%	10.7%	15.5%	24.1%	25.1%	18.4%	
NZ total	22.8%	26.5%	19.7%	18.3%	10.4%	11.3%	3.9%	11.0%	9.8%	15.6%	24.9%	27.9%		22.1%

Notes: Auckland and NZ totals refer to the population aged 15+ years.
 Ethnicity presented is based on grouped total response
 MELAA stands for Middle Eastern, Latin American, African
 Boxes with dashes represent rates that have been suppressed due to counts less than 15

People who have never smoked regularly:

The definition for *never smoked regularly* are people who have never been regular smokers

Table 10: Prevalence of never smokers (%), by gender and age group

	Females	Males	Auckland total	NZ total
15-19 years	83.6%	84.4%	84.0%	76.7%
20-24 years	71.3%	63.9%	67.7%	58.8%
25-29 years	66.6%	59.4%	63.1%	55.2%
30-39 years	68.4%	61.7%	65.2%	55.3%
40-49 years	67.0%	59.2%	63.2%	54.5%
50-59 years	64.7%	55.0%	59.9%	53.7%
60-64 years	63.9%	52.2%	58.1%	51.8%
65+ years	71.6%	50.4%	62.3%	56.9%
Auckland total	69.3%	60.7%	65.1%	
NZ total	60.1%	54.1%		57.2%

Notes: Auckland and NZ totals refer to the population aged 15+ years.

The prevalence of people who have never smoked regularly in Auckland is 65.1%, compared to the national prevalence of 57.2%. Encouragingly, higher percentages of youth aged 15 to 19 years have never smoked regularly, compared to other age groups. In general higher percentages of females have never smoked regularly compared to males across all age groups.

Table 11: Prevalence of never smokers (%), by gender and ethnicity

	Females	Males	Auckland total	NZ total
European	62.2%	57.9%	60.1%	56.1%
Maori	40.7%	46.7%	43.5%	38.7%
Pacific peoples	65.6%	55.4%	60.8%	59.0%
Asian	91.7%	71.7%	82.2%	81.7%
MELAA	80.4%	65.5%	72.3%	72.1%
Other ethnicity	63.4%	60.2%	61.7%	56.9%
Auckland total	69.3%	60.7%	65.1%	
NZ total	60.1%	54.1%		57.2%

Notes: Ethnicity presented is based on grouped total response
MELAA stands for Middle Eastern, Latin American, African

Higher percentages of never smokers are observed among Asian and MELAA ethnic groups. Maori have the lowest percentage of people who have never smoked regularly.

Table 12: Prevalence of never smokers (%), by age group and ethnicity

	European	Maori	Pacific peoples	Asian	MELAA	Other ethnicity	Auckland total	NZ total
15-19 years	81.3%	63.3%	77.8%	93.9%	89.6%	86.6%	84.0%	76.7%
20-24 years	62.6%	44.7%	53.7%	78.5%	73.5%	65.8%	67.7%	58.8%
25-29 years	58.4%	42.1%	50.6%	76.8%	73.5%	62.0%	63.1%	55.2%
30-39 years	61.2%	41.9%	56.5%	81.4%	70.4%	63.9%	65.2%	55.3%
40-49 years	58.1%	34.4%	56.9%	82.5%	65.2%	60.0%	63.2%	54.5%
50-59 years	54.7%	36.4%	61.4%	82.9%	63.6%	56.6%	59.9%	53.7%
60-64 years	52.4%	38.0%	66.6%	85.0%	-	53.5%	58.1%	51.8%
65+ years	58.6%	48.8%	72.5%	83.8%	76.5%	57.2%	62.3%	56.9%
Auckland total	60.1%	43.5%	60.8%	82.2%	72.3%	61.7%	65.1%	
NZ total	56.1%	38.7%	59.0%	81.7%	72.1%	56.9%		57.2%

Notes: Auckland and NZ totals refer to the population aged 15+ years.

Ethnicity presented is based on grouped total response

MELAA stands for Middle Eastern, Latin American, African

Boxes with dashes represent rates that have been suppressed due to counts less than 15

Table 13: Prevalence of never smokers (%), by ethnicity, gender and age group

	European		Maori		Pacific peoples		Asian		MELAA		Other Ethnicity		Auck-land total	NZ total
	females	males	females	males	females	males	females	males	females	males	females	males		
15-19 years	80.0%	82.6%	58.1%	69.2%	76.6%	78.7%	95.8%	91.9%	92.1%	91.9%	87.4%	85.9%	84.0%	76.7%
20-24 years	62.8%	62.3%	42.1%	48.0%	54.4%	52.7%	87.0%	69.3%	78.5%	69.6%	67.1%	64.5%	67.7%	58.8%
25-29 years	58.9%	57.7%	38.2%	46.5%	52.7%	48.1%	87.2%	65.4%	77.3%	68.0%	61.8%	62.2%	63.1%	55.2%
30-39 years	61.0%	61.4%	37.9%	46.7%	61.3%	50.9%	91.1%	69.2%	80.6%	63.4%	64.1%	63.8%	65.2%	55.3%
40-49 years	57.7%	58.6%	31.6%	37.6%	63.7%	49.1%	94.3%	69.1%	77.9%	54.7%	60.3%	60.0%	63.2%	54.5%
50-59 years	57.3%	52.0%	35.2%	38.6%	72.3%	49.4%	95.5%	69.8%	77.6%	53.1%	58.4%	55.0%	59.9%	53.7%
60-64 years	56.0%	48.8%	36.0%	42.0%	79.3%	52.2%	96.0%	72.5%	-	-	58.8%	49.1%	58.1%	51.8%
65+ years	68.0%	45.9%	57.5%	38.7%	82.0%	60.2%	93.4%	73.3%	79.2%	63.2%	66.7%	47.0%	62.3%	56.9%
Auckland total	62.2%	57.9%	40.7%	46.7%	65.6%	55.4%	91.7%	71.7%	80.4%	65.5%	63.4%	60.2%	65.1%	
NZ total	58.6%	53.3%	34.7%	43.2%	62.4%	55.3%	91.2%	70.9%	80.6%	64.1%	59.3%	54.7%		57.2%

Notes: Auckland and NZ totals refer to the population aged 15+ years.
 Ethnicity presented is based on grouped total response
 MELAA stands for Middle Eastern, Latin American, African
 Boxes with dashes represent rates that have been suppressed due to counts less than 15