



National  
Cervical  
Screening  
Programme

# **NCSP New Zealand All District Health Board Coverage Report**

For the period ending  
31 December 2019



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## Introduction

Well-organised cervical cancer screening programmes can significantly reduce the incidence and mortality of the disease. The National Cervical Screening Programme (NCSP) was established in New Zealand in 1990, and since that time, the number of women who develop cervical cancer, and the number of women who die from it, has reduced by 60 percent. Having regular cervical smear tests continues to be a woman's best protection against the development of invasive cervical cancer.

One of the main performance measures of NCSP is coverage. Coverage is defined as the proportion of women eligible for screening who have been screened in the previous three years. Our target is to reach 80 percent screening coverage for all eligible women.

The incidence of cervical cancer among Māori, Pacific and Asian women remains higher than that among European/Other ethnicities. One of the primary reasons for this is lower rates of screening coverage among these groups.

This NCSP District Health Board Coverage Report is intended to support those working in increasing coverage and improving equity in cervical screening. Tihei mauri ora!

## Technical notes

The data for the period ending 31 December 2019 was extracted from the Ministry of Health NCSP Datamart on 27 January 2020.

Screened women (the ‘numerator’) are included in the coverage calculations based on their age at the end of the monitoring period. This means that coverage for women aged 25-69 years includes women who were aged 22, 23 or 24 at the start of the monitoring period. Since February 2016 the ethnicity and domicile of a screened woman is that recorded on the Ministry of Health’s National Health Index (NHI). Prior to this date, demographic information was obtained from the NCSP Register. The impact of this change can be found in the comparison document re: December 2015 coverage: <https://www.nsu.govt.nz/health-professionals/national-cervical-screening-programme/cervical-screening-coverage>

Any time series data produced from February 2016 will use demographic information from the NHI across all time periods.

For both women screened and in the denominator, women have been prioritised to a single ethnicity using the following priority order: Māori, Pacific, Asian, European/Other. This means that if a woman chooses more than one category, and one of these is Māori, she is counted as Māori. The ethnicity recorded on the Ministry of Health’s National Health Index has been used for any screened woman with no ethnicity recorded on the Register.

The denominators used for calculating coverage are derived from Statistics New Zealand’s District Health Board (DHB) population projections 30 June 2018 update based on the 2013 Census. The population update may result in changes to historic denominators (from the last census year to the date of this report), this means that the denominators in this report may differ from those published in previous years. The population projections have been adjusted for the prevalence of hysterectomy.

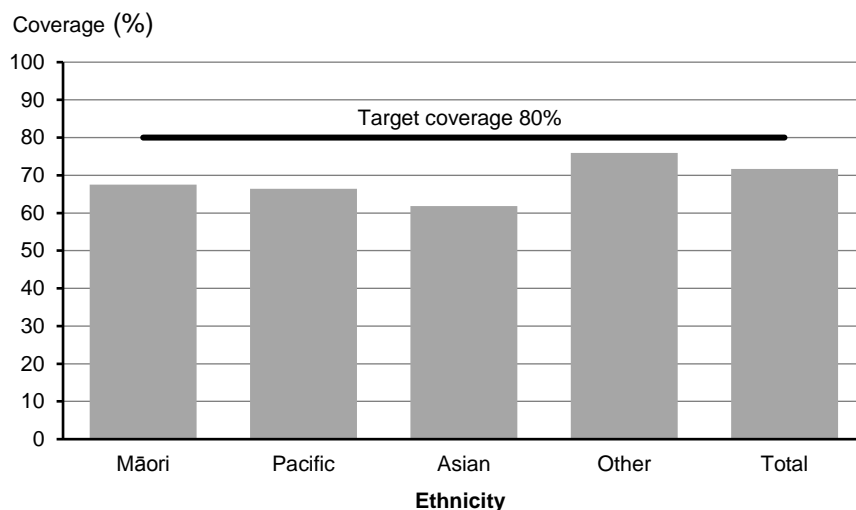
Additional detail on the methodology can be obtained via a request made to [nsu-dataenquiries@moh.govt.nz](mailto:nsu-dataenquiries@moh.govt.nz).

Please note the maps showing coverage by ethnicity (usually figures 7-10) are not available for the December 2019 reports, please see <https://minhealthnz.shinyapps.io/nsu-ncsp-coverage/> for current ethnicity coverage maps.

# All coverage

## All coverage by ethnicity in the three years ending 31 December 2019

**Figure 1: NCSP coverage (%) in the three years ending 31 December 2019 by ethnicity, women aged 25–69 years, Total Coverage**



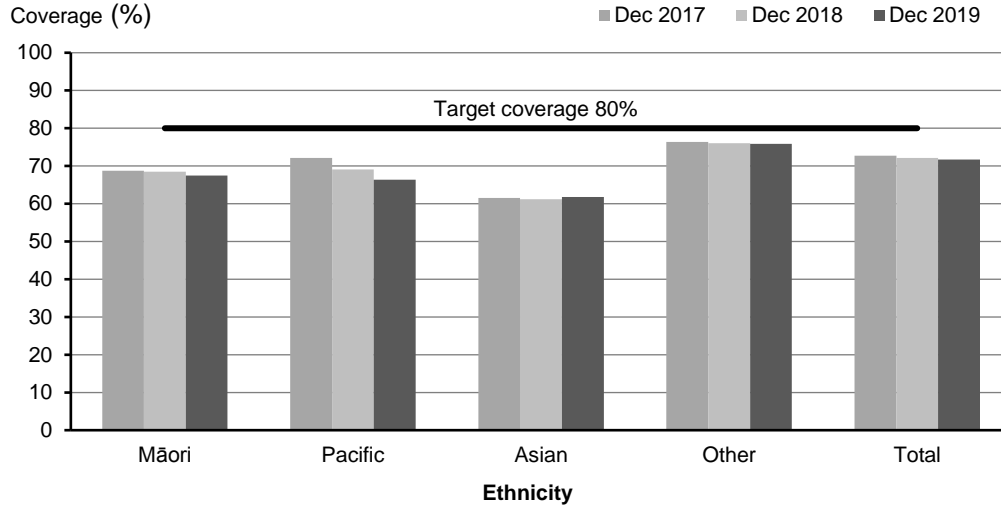
**Table 1: NCSP coverage (%) in the three years ending 31 December 2019 by ethnicity, women aged 25–69 years, Total Coverage**

Ethnicity	Population	Women screened in last 3 years	3-year coverage	Additional screens to reach target*
Māori	175,911	118,746	67.50%	21,982
Pacific	76,884	51,030	66.40%	10,477
Asian	234,445	144,918	61.80%	42,638
Other	837,487	635,755	75.90%	34,234
<b>Total</b>	<b>1,324,727</b>	<b>950,449</b>	<b>71.70%</b>	<b>109,332</b>

\*For the total population the number of additional screens is the number required to move from the total population coverage to 80%. This may not be the same as the sum of additional screens required for each ethnic group to reach 80%.

## All coverage trends by ethnicity

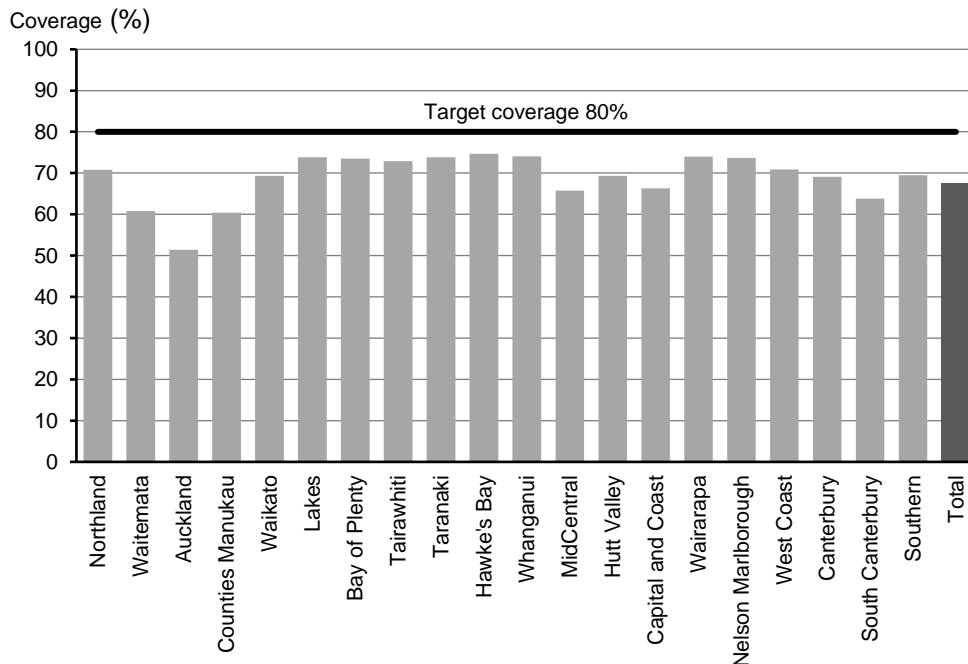
**Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2019 by ethnicity, Total Coverage**



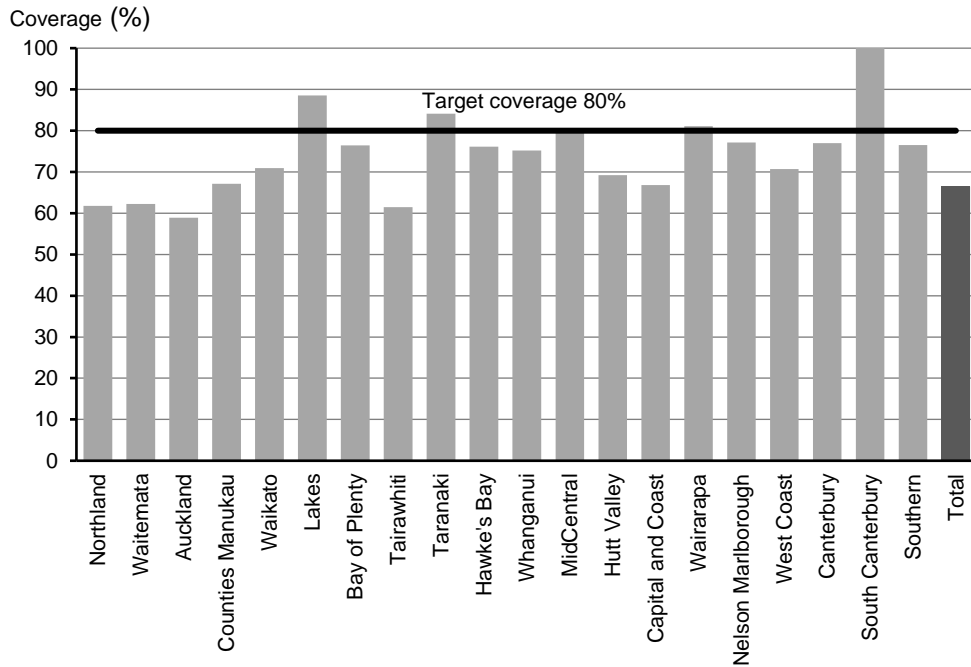
## DHB coverage comparisons

### DHB coverage by ethnicity in the three years ending 31 December 2019

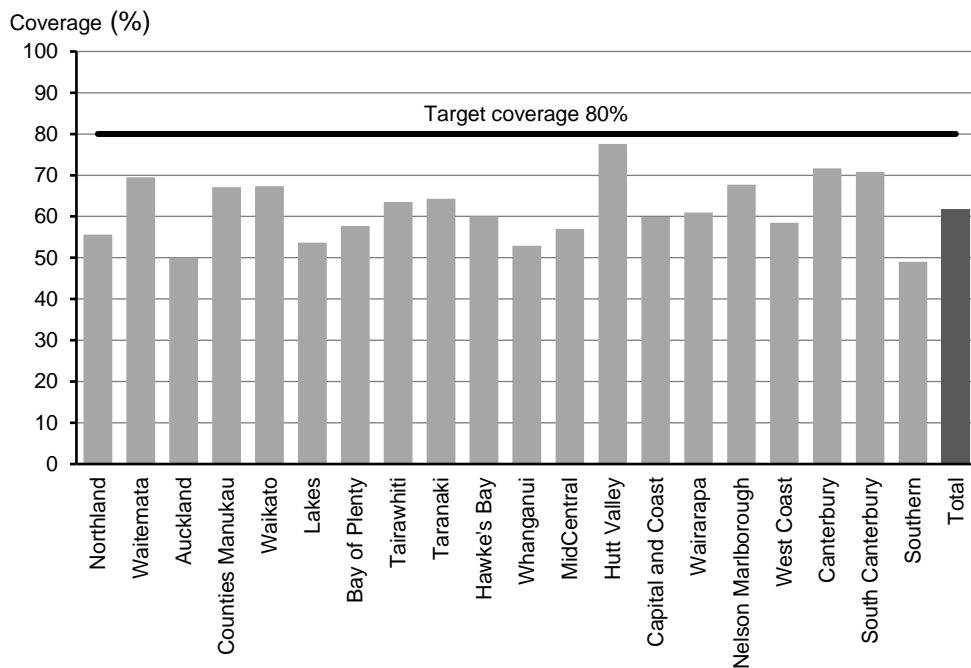
**Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2019 by District Health Board**



**Figure 4: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2019 by District Health Board**

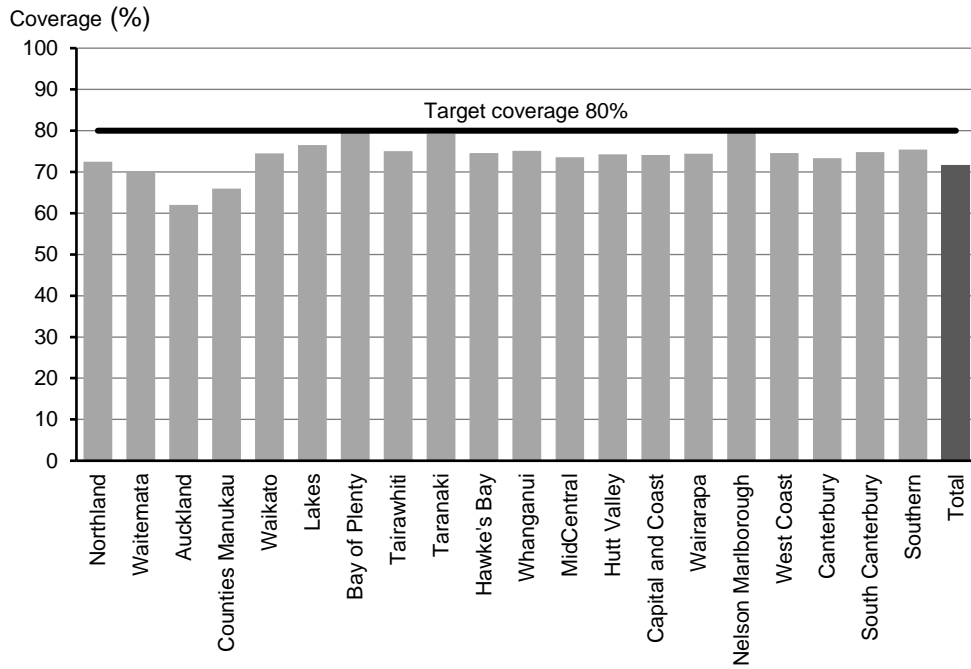


**Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2019 by District Health Board**





**Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2019 by District Health Board**



**Table 2: NCSP number of screens and coverage (%) in women aged 25–69 years in the three years ending 31 December 2019 by District Health Board**

DHB	Eligible Population					Screens					Coverage				
	Māori	Pacific	Asian	Other	Total	Māori	Pacific	Asian	Other	Total	Māori	Pacific	Asian	Other	Total
Northland	13,735	848	2,621	28,886	46,090	9,726	524	1,457	21,696	33,403	70.8%	61.8%	55.6%	75.1%	72.5%
Waitemata	14,118	10,943	45,128	105,515	175,704	8,579	6,802	31,359	76,311	123,051	60.8%	62.2%	69.5%	72.3%	70.0%
Auckland	11,376	14,666	60,376	75,203	161,621	5,848	8,636	30,193	55,583	100,260	51.4%	58.9%	50.0%	73.9%	62.0%
Counties Manukau	20,702	29,136	45,002	58,537	153,377	12,507	19,553	30,197	39,021	101,278	60.4%	67.1%	67.1%	66.7%	66.0%
Waikato	21,407	2,941	12,715	71,374	108,437	14,827	2,086	8,561	55,287	80,761	69.3%	70.9%	67.3%	77.5%	74.5%
Lakes	8,905	550	3,064	16,069	28,588	6,574	487	1,645	13,178	21,884	73.8%	88.5%	53.7%	82.0%	76.5%
Bay of Plenty	13,454	921	5,579	42,469	62,423	9,892	704	3,221	35,802	49,619	73.5%	76.4%	57.7%	84.3%	79.5%
Tairāwhiti	5,828	270	417	5,978	12,493	4,251	166	265	4,685	9,367	72.9%	61.5%	63.5%	78.4%	75.0%
Taranaki	4,855	315	1,707	24,368	31,245	3,582	265	1,097	19,803	24,747	73.8%	84.1%	64.3%	81.3%	79.2%
Hawke's Bay	9,525	1,211	2,648	29,273	42,657	7,113	921	1,588	22,180	31,802	74.7%	76.1%	60.0%	75.8%	74.6%
Whanganui	3,887	339	947	11,172	16,345	2,866	255	484	8,582	12,187	73.7%	75.2%	51.1%	76.8%	74.6%
MidCentral	7,851	1,072	4,447	32,467	45,837	5,165	855	2,534	25,164	33,718	65.8%	79.8%	57.0%	77.5%	73.6%
Hutt Valley	5,918	2,788	5,546	26,535	40,787	4,103	1,928	4,303	19,973	30,307	69.3%	69.2%	77.6%	75.3%	74.3%
Capital and Coast	9,039	5,543	15,260	58,707	88,549	5,993	3,703	9,141	46,811	65,648	66.3%	66.8%	59.9%	79.7%	74.1%
Wairarapa	1,714	175	456	9,546	11,891	1,268	142	278	7,159	8,847	74.0%	81.1%	61.0%	75.0%	74.4%
Nelson Marlborough	3,484	502	2,336	33,546	39,868	2,566	387	1,581	27,214	31,748	73.7%	77.1%	67.7%	81.1%	79.6%
West Coast	921	99	364	7,156	8,540	653	70	213	5,436	6,372	70.9%	70.7%	58.5%	76.0%	74.6%
Canterbury	10,971	3,039	17,557	117,820	149,387	7,585	2,341	12,586	86,925	109,437	69.1%	77.0%	71.7%	73.8%	73.3%
South Canterbury	1,110	128	729	13,321	15,288	708	136	516	10,069	11,429	63.8%	106.3%	70.8%	75.6%	74.8%
Southern	7,111	1,398	7,546	69,545	85,600	4,940	1,069	3,699	54,876	64,584	69.5%	76.5%	49.0%	78.9%	75.4%
<b>National</b>	<b>175,911</b>	<b>76,884</b>	<b>234,445</b>	<b>837,487</b>	<b>1,324,727</b>	<b>118,746</b>	<b>51,030</b>	<b>144,918</b>	<b>635,755</b>	<b>950,449</b>	<b>67.5%</b>	<b>66.4%</b>	<b>61.8%</b>	<b>75.9%</b>	<b>71.7%</b>

## DHB coverage comparison trends by ethnicity

**Table 3: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December, 2017, 2018, 2019, by ethnicity and District Health Board**

DHB	Māori			Pacific			Asian			Other		
	Dec-17	Dec-18	Dec-19	Dec-17	Dec-18	Dec-19	Dec-17	Dec-18	Dec-19	Dec-17	Dec-18	Dec-19
Northland	72.5%	72.6%	70.8%	68.4%	68.0%	61.8%	53.6%	54.2%	55.6%	78.4%	76.8%	75.1%
Waitemata	62.4%	61.4%	60.8%	69.4%	64.2%	62.2%	69.9%	68.8%	69.5%	73.3%	72.4%	72.3%
Auckland	54.4%	52.9%	51.4%	64.6%	61.5%	58.9%	50.4%	49.7%	50.0%	72.5%	73.2%	73.9%
Counties Manukau	65.4%	64.0%	60.4%	77.6%	72.2%	67.1%	69.0%	67.8%	67.1%	68.6%	67.5%	66.7%
Waikato	70.3%	69.5%	69.3%	74.1%	72.6%	70.9%	64.3%	66.1%	67.3%	78.2%	78.0%	77.5%
Lakes	72.9%	75.2%	73.8%	79.6%	85.1%	88.5%	48.2%	50.1%	53.7%	80.2%	81.5%	82.0%
Bay of Plenty	73.3%	73.7%	73.5%	74.5%	74.1%	76.4%	55.7%	56.5%	57.7%	86.3%	85.3%	84.3%
Tairāwhiti	71.7%	72.5%	72.9%	68.7%	68.3%	61.5%	57.6%	58.1%	63.5%	79.2%	77.7%	78.4%
Taranaki	75.5%	75.8%	73.8%	85.6%	88.2%	84.1%	65.7%	66.0%	64.3%	82.7%	82.0%	81.3%
Hawke's Bay	76.2%	75.6%	74.7%	72.8%	72.2%	76.1%	60.6%	58.9%	60.0%	77.2%	75.6%	75.8%
Whanganui	71.3%	72.4%	73.7%	73.1%	77.3%	75.2%	51.0%	51.0%	51.1%	77.7%	76.2%	76.8%
MidCentral	66.7%	66.5%	65.8%	74.1%	78.6%	79.8%	55.2%	57.0%	57.0%	77.5%	77.7%	77.5%
Hutt Valley	66.6%	67.9%	69.3%	65.5%	67.4%	69.2%	76.2%	75.5%	77.6%	75.0%	74.9%	75.3%
Capital and Coast	65.6%	66.4%	66.3%	64.4%	66.5%	66.8%	59.2%	59.7%	59.9%	77.7%	78.7%	79.7%
Wairarapa	76.3%	72.2%	74.0%	90.2%	84.0%	81.1%	61.6%	61.2%	61.0%	78.5%	76.3%	75.0%
Nelson Marlborough	74.4%	73.8%	73.7%	72.2%	76.7%	77.1%	63.0%	63.7%	67.7%	81.7%	80.6%	81.1%
West Coast	72.4%	70.5%	70.9%	67.4%	68.4%	70.7%	54.4%	56.9%	58.5%	76.3%	74.5%	76.0%
Canterbury	68.1%	69.4%	69.1%	75.4%	77.2%	77.0%	64.8%	68.3%	71.7%	74.3%	74.0%	73.8%
South Canterbury	64.7%	64.4%	63.8%	96.7%	100.0%	106.3%	65.8%	65.6%	70.8%	77.3%	75.8%	75.6%
Southern	70.8%	70.9%	69.5%	79.0%	77.7%	76.5%	47.9%	48.1%	49.0%	78.8%	79.2%	78.9%
<b>Total</b>	<b>68.7%</b>	<b>68.5%</b>	<b>67.5%</b>	<b>72.1%</b>	<b>69.1%</b>	<b>66.4%</b>	<b>61.5%</b>	<b>61.2%</b>	<b>61.8%</b>	<b>76.4%</b>	<b>76.0%</b>	<b>75.9%</b>