



# **NCSP Northland District Health Board Coverage Report**

For the period ending 31 December  
2014

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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. While we have met this target nationally for European/ Other women, coverage rates for Maori, Asian and Pacific women remain at under 70 percent.

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 number of women screened for the three year periods ending 30 June 2012, 2013 and 2014 were extracted from the National Cervical Screening Register (the Register) on 27 February 2013 for December 2012, on 17 February 2014 for December 2013 and 20 January 2015 for December 2014.

Screened women 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.

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.

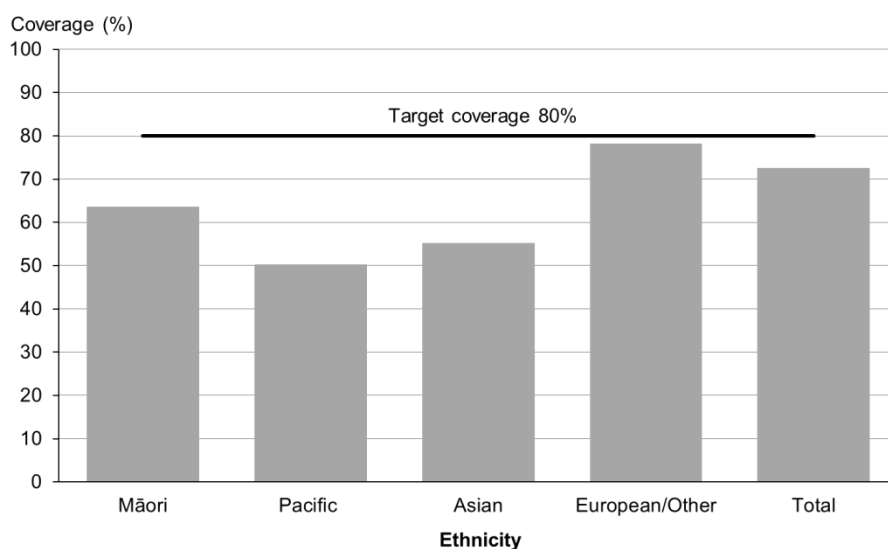
The denominators used for calculating coverage are derived from Statistics New Zealand's district health board (DHB) population projections 30 June 2014 update. For 31 December 2012 and 2013, the 2015 update of the 2001 to 2013 DHB population estimates based on the 2013 Census was used. Both the population projections and population estimates have been adjusted for the prevalence of hysterectomy.

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

# Northland Total coverage

## Northland Total coverage by ethnicity in the three years ending 31 December 2014

**Figure 1: NCSP coverage (%) in the three years ending 31 December 2014 by ethnicity, women aged 25–69 years, Northland District Health Board**



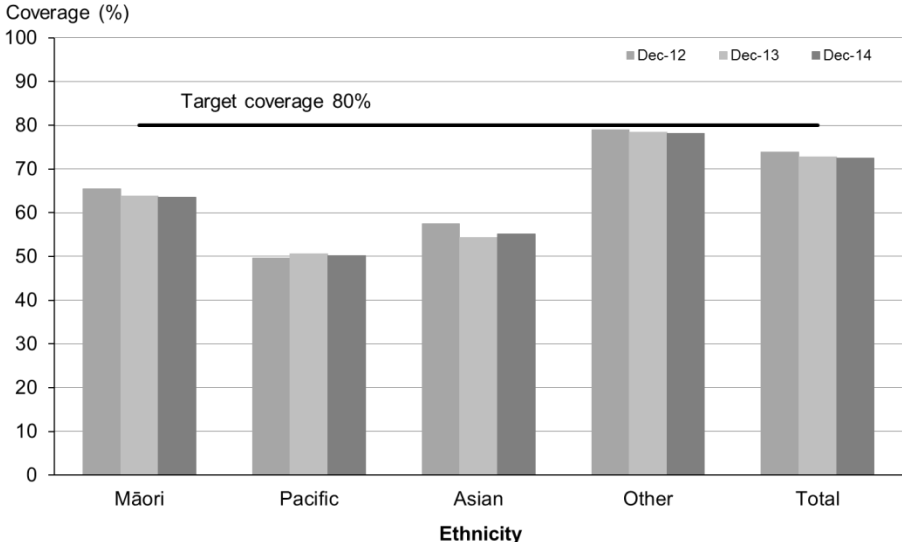
**Table 1: NCSP coverage (%) in the three years ending 31 December 2014 by ethnicity, women aged 25–69 years, Northland District Health Board**

Ethnicity	Population	Women screened in last 3 years	3-year coverage	Additional screens to reach 80% target*
Māori	12,350	7,843	63.5%	2,037
Pacific	656	329	50.2%	195
Asian	1,607	887	55.2%	398
European/Other	26,567	20,769	78.2%	484
<b>Total</b>	<b>41,179</b>	<b>29,828</b>	<b>72.4%</b>	<b>3,115</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%.

# Northland District health board coverage trends by ethnicity

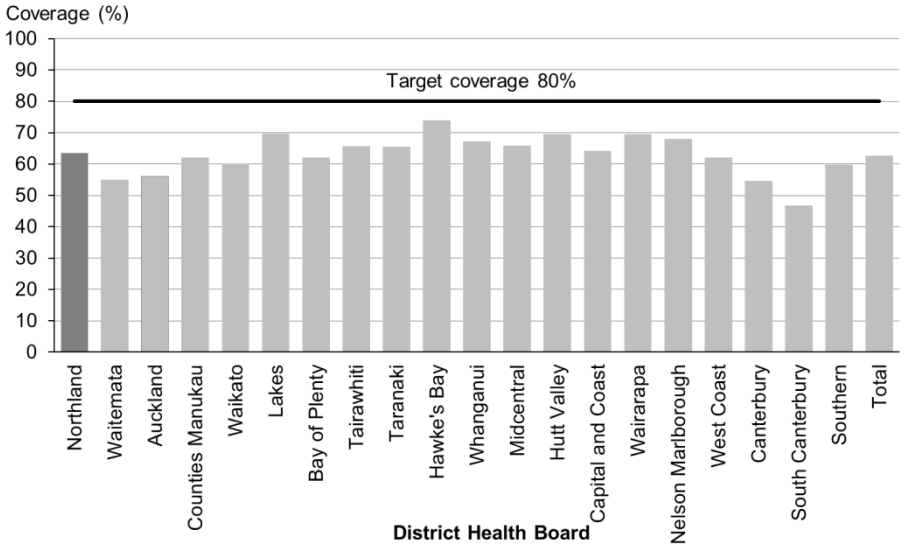
**Figure 2: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2012, 2013, and 2014 by ethnicity, Northland District Health Board**



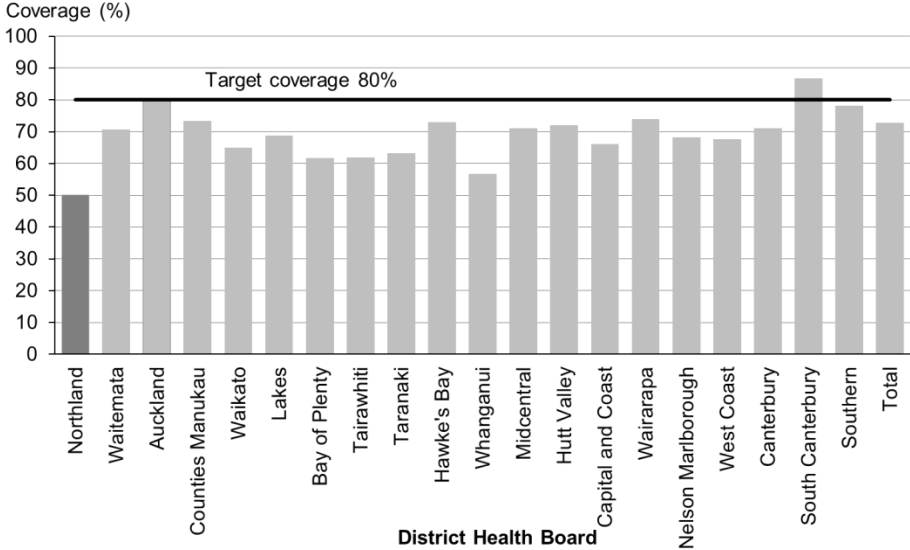
# DHB coverage comparisons

## DHB coverage by ethnicity in the three years ending 31 December 2014

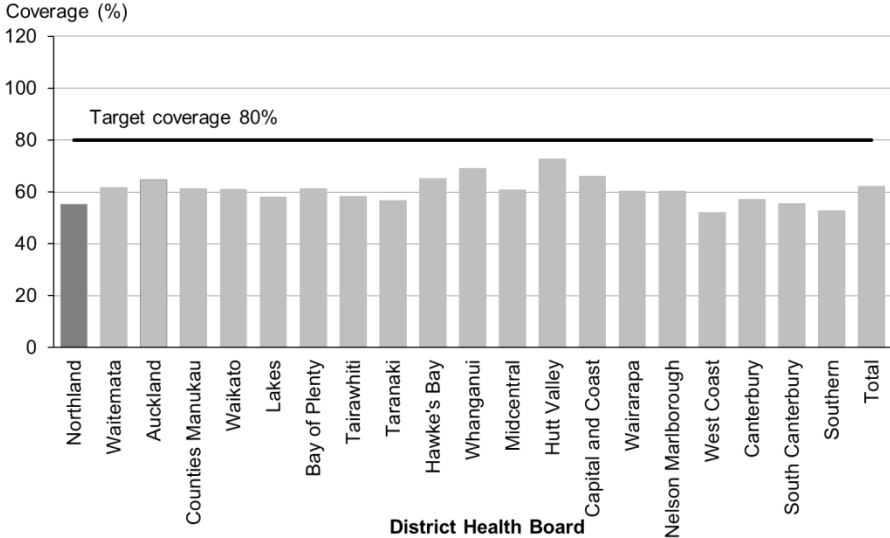
**Figure 3: NCSP coverage (%) of Māori women aged 25–69 years in the three years ending 31 December 2014 by district health board**



**Figure 4: NCSP coverage (%) of Pacific women aged 25–69 years in the three years ending 31 December 2014 by district health board**

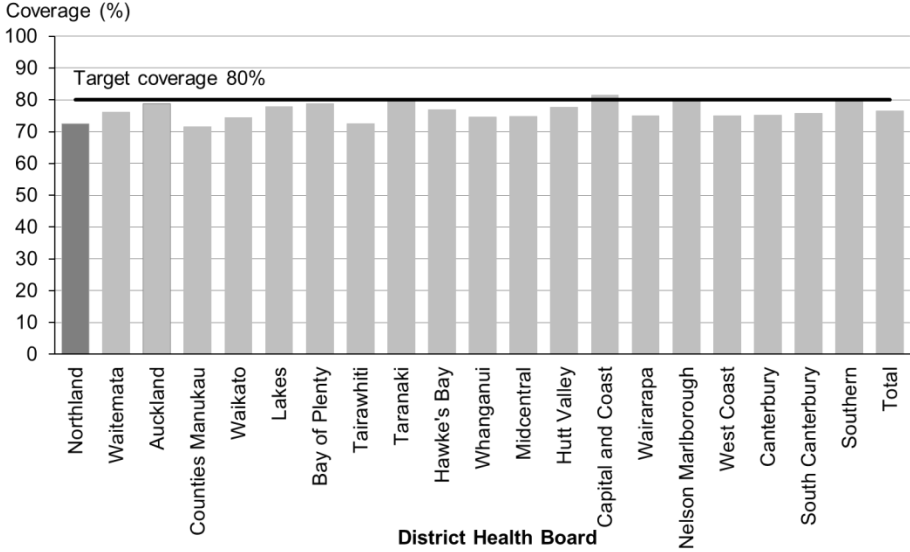


**Figure 5: NCSP coverage (%) of Asian women aged 25–69 years in the three years ending 31 December 2014 by district health board**





**Figure 6: Overall NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2014 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 2014 by district health board**

DHB name	Eligible population					Screens					Coverage				
	Māori	Pacific	Asian	European /Other	Total	Māori	Pacific	Asian	European/ Other	Total	Māori	Pacific	Asian	European /Other	Total
<b>Northland</b>	<b>12,350</b>	<b>656</b>	<b>1,607</b>	<b>26,567</b>	<b>41,179</b>	<b>7,843</b>	<b>329</b>	<b>887</b>	<b>20,769</b>	<b>29,828</b>	<b>63.5%</b>	<b>50.2%</b>	<b>55.2%</b>	<b>78.2%</b>	<b>72.4%</b>
Waitemata	12,194	8,994	32,851	95,774	149,812	6,696	6,343	20,257	80,764	114,060	54.9%	70.5%	61.7%	84.3%	76.1%
Auckland	9,357	12,199	39,930	68,111	129,596	5,246	9,784	25,890	61,329	102,249	56.1%	80.2%	64.8%	90.0%	78.9%
Counties Manukau	17,696	24,145	33,945	53,551	129,336	10,972	17,674	20,802	43,022	92,470	62.0%	73.2%	61.3%	80.3%	71.5%
Waikato	18,639	2,305	8,433	66,180	95,557	11,183	1,494	5,146	53,258	71,081	60.0%	64.8%	61.0%	80.5%	74.4%
Lakes	8,044	526	1,882	15,660	26,113	5,597	361	1,094	13,296	20,348	69.6%	68.6%	58.1%	84.9%	77.9%
Bay of Plenty	12,008	754	3,305	38,814	54,881	7,440	464	2,027	33,271	43,202	62.0%	61.6%	61.3%	85.7%	78.7%
Tairāwhiti	5,279	242	336	5,762	11,619	3,466	149	196	4,616	8,427	65.7%	61.7%	58.4%	80.1%	72.5%
Taranaki	4,316	269	1,286	23,484	29,356	2,821	170	730	19,824	23,545	65.4%	63.1%	56.7%	84.4%	80.2%
Hawkes Bay	8,735	1,124	1,716	28,231	39,805	6,450	818	1,120	22,239	30,627	73.8%	72.8%	65.3%	78.8%	76.9%
Whanganui	3,484	303	454	10,858	15,099	2,337	172	313	8,453	11,275	67.1%	56.7%	69.0%	77.8%	74.7%
Midcentral	6,804	952	3,017	31,029	41,803	4,483	676	1,836	24,246	31,241	65.9%	71.0%	60.8%	78.1%	74.7%
Hutt Valley	5,352	2,574	4,285	25,343	37,555	3,721	1,852	3,115	20,507	29,195	69.5%	72.0%	72.7%	80.9%	77.7%
Capital and Coast	7,550	5,065	11,066	55,498	79,179	4,838	3,344	7,305	49,016	64,503	64.1%	66.0%	66.0%	88.3%	81.5%
Wairarapa	1,519	164	317	8,844	10,844	1,054	121	191	6,771	8,137	69.4%	73.9%	60.3%	76.6%	75.0%
Nelson Marlborough	3,115	439	1,611	32,489	37,654	2,115	299	973	26,803	30,190	67.9%	68.1%	60.4%	82.5%	80.2%
West Coast	842	77	326	7,352	8,598	521	52	170	5,706	6,449	61.9%	67.5%	52.1%	77.6%	75.0%
Canterbury	9,074	2,565	12,607	108,425	132,671	4,939	1,821	7,197	85,837	99,794	54.4%	71.0%	57.1%	79.2%	75.2%
South Canterbury	957	100	528	13,031	14,617	446	87	294	10,232	11,059	46.6%	86.6%	55.6%	78.5%	75.7%
Southern	6,074	1,066	4,194	65,931	77,265	3,624	833	2,211	54,611	61,279	59.7%	78.1%	52.7%	82.8%	79.3%
<b>Total</b>	<b>153,390</b>	<b>64,518</b>	<b>163,695</b>	<b>780,935</b>	<b>1,162,539</b>	<b>95,812</b>	<b>46,851</b>	<b>101,765</b>	<b>644,640</b>	<b>889,068</b>	<b>62.5%</b>	<b>72.6%</b>	<b>62.2%</b>	<b>82.5%</b>	<b>76.5%</b>

## DHB coverage comparison trends by ethnicity

**Table 3: NCSP coverage (%) of women aged 25–69 years in the three years ending 31 December 2012, 2013 and 2014, by ethnicity and district health board**

District Health Board	Māori			Pacific			Asian			European/Other		
	Dec-12	Dec-13	Dec-14	Dec-12	Dec-13	Dec-14	Dec-12	Dec-13	Dec-14	Dec-12	Dec-13	Dec-14
<b>Northland</b>	65.5%	63.9%	63.5%	49.7%	50.6%	50.2%	57.6%	54.3%	55.2%	79.0%	78.5%	78.2%
Waitemata	52.8%	54.0%	54.9%	67.5%	67.3%	70.5%	58.6%	59.7%	61.7%	84.7%	84.3%	84.3%
Auckland	58.2%	57.5%	56.1%	82.6%	81.7%	80.2%	69.2%	66.9%	64.8%	91.8%	91.1%	90.0%
Counties Manukau	64.1%	61.9%	62.0%	71.1%	71.0%	73.2%	59.7%	60.0%	61.3%	82.1%	81.9%	80.3%
Waikato	60.4%	59.4%	60.0%	64.9%	64.0%	64.8%	58.7%	58.4%	61.0%	82.3%	81.3%	80.5%
Lakes	69.3%	69.5%	69.6%	63.9%	64.6%	68.6%	60.7%	58.2%	58.1%	87.3%	85.5%	84.9%
Bay of Plenty	61.9%	62.5%	62.0%	69.2%	63.0%	61.6%	66.0%	60.9%	61.3%	85.9%	85.8%	85.7%
Tairāwhiti	72.8%	70.5%	65.7%	54.5%	53.7%	61.7%	64.7%	60.8%	58.4%	87.6%	84.6%	80.1%
Taranaki	66.2%	64.9%	65.4%	69.2%	62.7%	63.1%	57.2%	56.1%	56.7%	86.3%	85.6%	84.4%
Hawkes Bay	73.8%	73.4%	73.8%	78.2%	77.0%	72.8%	67.6%	64.5%	65.3%	82.9%	82.5%	78.8%
Whanganui	66.3%	65.8%	67.1%	64.9%	61.1%	56.7%	71.3%	67.2%	69.0%	79.7%	79.0%	77.8%
MidCentral	64.4%	66.0%	65.9%	68.8%	70.1%	71.0%	61.3%	60.3%	60.8%	78.4%	78.5%	78.1%
Hutt Valley	66.2%	66.2%	69.5%	74.1%	68.5%	72.0%	76.0%	71.0%	72.7%	82.4%	80.9%	80.9%
Capital and Coast	63.7%	63.4%	64.1%	68.0%	66.5%	66.0%	68.5%	66.7%	66.0%	91.6%	90.4%	88.3%
Wairarapa	68.9%	69.6%	69.4%	78.4%	72.4%	73.9%	56.8%	55.0%	60.3%	79.2%	77.8%	76.6%
Nelson Marlborough	59.9%	64.1%	67.9%	66.2%	66.3%	68.1%	60.0%	58.2%	60.4%	82.0%	82.0%	82.5%
West Coast	56.9%	59.3%	61.9%	76.0%	66.0%	67.5%	53.9%	52.6%	52.1%	78.1%	77.7%	77.6%
Canterbury	51.7%	53.0%	54.4%	70.3%	67.8%	71.0%	57.7%	56.6%	57.1%	81.0%	79.9%	79.2%
South Canterbury	42.2%	41.6%	46.6%	67.9%	77.7%	86.6%	53.3%	50.8%	55.6%	76.6%	76.3%	78.5%
Southern	57.3%	56.8%	59.7%	73.3%	73.4%	78.1%	54.2%	53.1%	52.7%	83.4%	83.3%	82.8%
<b>Total</b>	<b>62.5%</b>	<b>62.1%</b>	<b>62.5%</b>	<b>72.2%</b>	<b>71.3%</b>	<b>72.6%</b>	<b>62.8%</b>	<b>61.8%</b>	<b>62.2%</b>	<b>84.0%</b>	<b>83.3%</b>	<b>82.5%</b>

Key  ≥ 80%  70–79.9%  < 70%