

BSA Northland District Health Board Coverage Report

For the period ending 31 March 2016

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Introduction

BreastScreen Aotearoa (BSA) is a national public health screening programme funded by the Government to offer free Mammography every two years to women aged 45–69 years of age. The aim of BSA is to reduce morbidity and mortality from breast cancer by the early detection and treatment of the disease.

BSA's target is to screen 70 percent of eligible women aged 50–69 every two years. BSA does not have a target for women aged 45–49 years because there is less evidence of the benefits of this age group's participation in a population health breast screening programme.

Improving uptake of the breast cancer screening programme by Māori and Pacific women is a key priority of the National Screening Unit (NSU) as part of its commitment to achieving equity. Coverage rates are monitored closely for these two groups.

While the majority (15) of District Health Boards (DHBs) are not directly contracted by the Ministry of Health to provide breast screening services, it is expected that all DHBs will have linkages to breast screening activities. The programme is delivered throughout the country by eight lead providers, their sub-contracted providers (where applicable), and mobile units that deliver services to rural and some urban communities. Working alongside the lead providers are 13 independent service providers in defined geographical areas providing recruitment and retention, and support services for Māori and Pacific women.

The purpose of this quarterly report is to demonstrate by DHB if the programme coverage targets are being met for the region.

Technical notes

The number of women screened for the two-year periods ending 31 March 2014, 31 March 2015 and 31 March 2016 were extracted from the national Breast Screen Aotearoa database (the Database) on 26 April 2016.

Screened women are included in the coverage calculations based on their age at the time of their screen. This means that coverage for women aged 50–69 years includes women who may have turned 70 or 71 during 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, Other. This means that if a woman chooses more than one category, and one of these is Māori, she is counted as Māori. For screened women with no ethnicity recorded in the Database, her screen contributes to overall coverage but not to any particular ethnicity. This means that the total number of women screened may be greater than the sum of women screened by ethnicity.

The denominators used for calculating coverage for the periods ending 31 March 2015 and 31 March 2016 are derived from Statistics New Zealand's District Health Board (DHB) population projections 2014 update, based on the 2013 Census. For the period ending 31 March 2014, the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census was used.

The denominator is the projected population for the mid-point of the monitoring period.

This means that for the two-year period ending:

- 31 March 2014, the denominator is the population estimate for 31 March 2013
- 31 March 2015, the denominator is the projected population for 31 March 2014
- 31 March 2016, the denominator is the projected population for 31 March 2015

Delivery of BSA services through mobile units may also result in fluctuations in the number of women screened in a quarter which may impact on coverage from year to year depending on the mobile unit schedule.

Additional detail on the methodology can be obtained via a request made to screening@moh.govt.nz.

Northland DHB coverage

Northland coverage by ethnicity in the two years ending 31 March 2016

Figure 1: BSA coverage (%) in the two years ending 31 March 2016 by ethnicity, women aged 50–69 years, Northland District Health Board

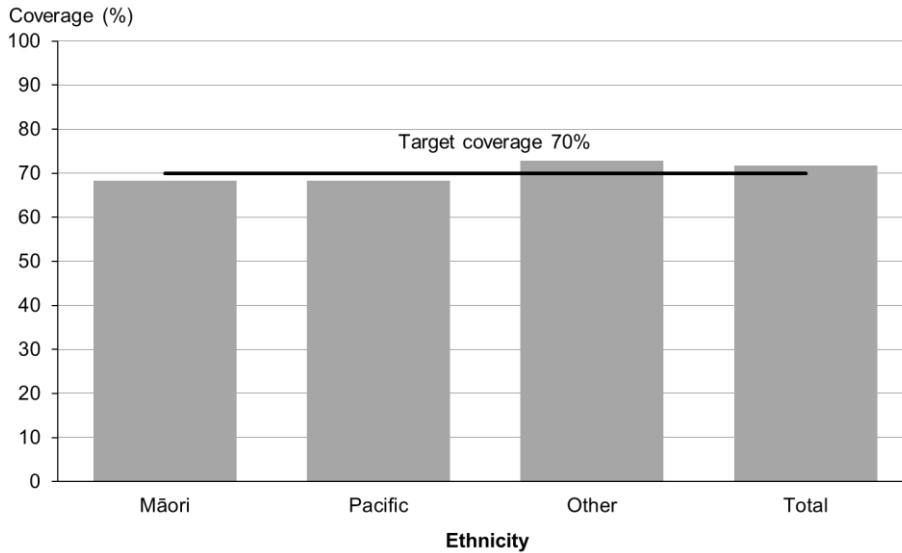


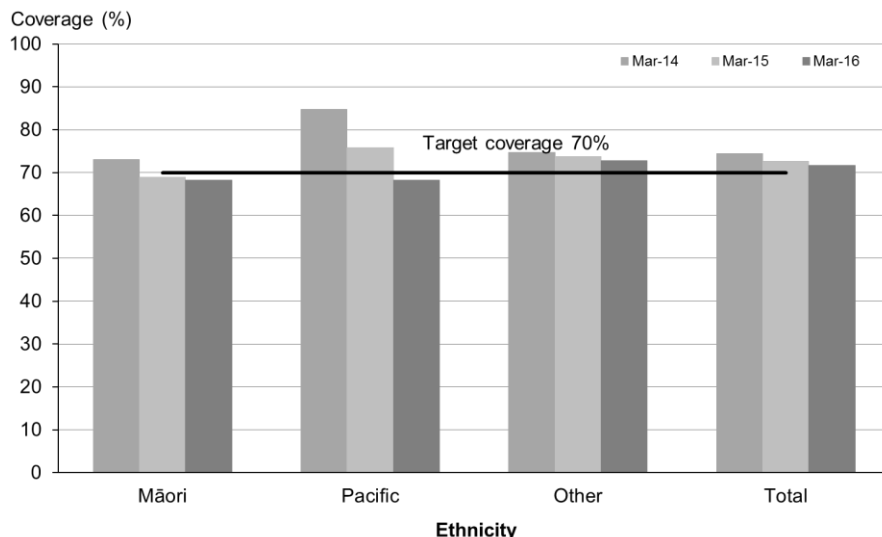
Table 1: BSA coverage (%) in the two years ending 31 March 2016 by ethnicity, women aged 50–69 years, Northland District Health Board

Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach 70% target
Māori	5,558	3,792	68.2%	98
Pacific	248	169	68.3%	4
Other	18,000	13,110	72.8%	
Unspecified		1		
Total*	23,798	17,072	71.7%	

**For the total population the number of additional screens is the number required to move the total population coverage to 70%. This may not be the same as the sum of additional screens required for each ethnic group to reach 70%. Total includes women of unknown ethnicity, and therefore is greater than the sum of Māori, Pacific and Other.*

Northland coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2014, 31 March 2015, and 31 March 2016* by ethnicity, Northland District Health Board



* March 2014 coverage is calculated using the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the March 2015 and March 2016 calculations use 30 June 2014 update of the 2013 census based population projections

Table 2: BSA number of screens in women aged 50–69 years by ethnicity and quarter, Quarter 1 2015–Quarter 1 2016, Northland District Health Board

Ethnicity	Number of screens by quarter				
	Q1 (Jan-Mar) 2015	Q2 (Apr - Jun) 2015	Q3 (Jul-Sep) 2014	Q4 (Oct - Dec) 2015	Q1 (Jan-Mar) 2016
Māori	478	398	558	455	519
Pacific	24	19	21	19	24
Other	1,595	1,938	1,676	1,680	1,488
Total	2,097	2,355	2,255	2,154	2,031

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 31 March 2016

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

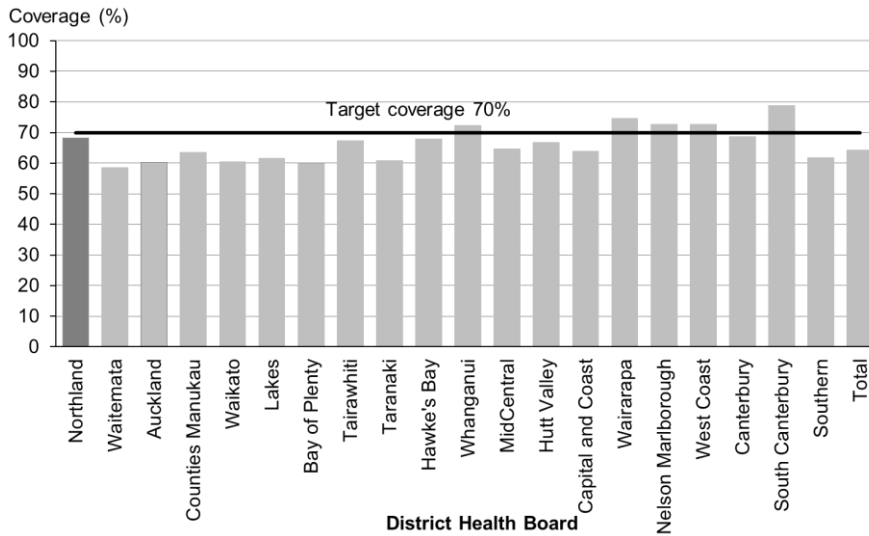


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

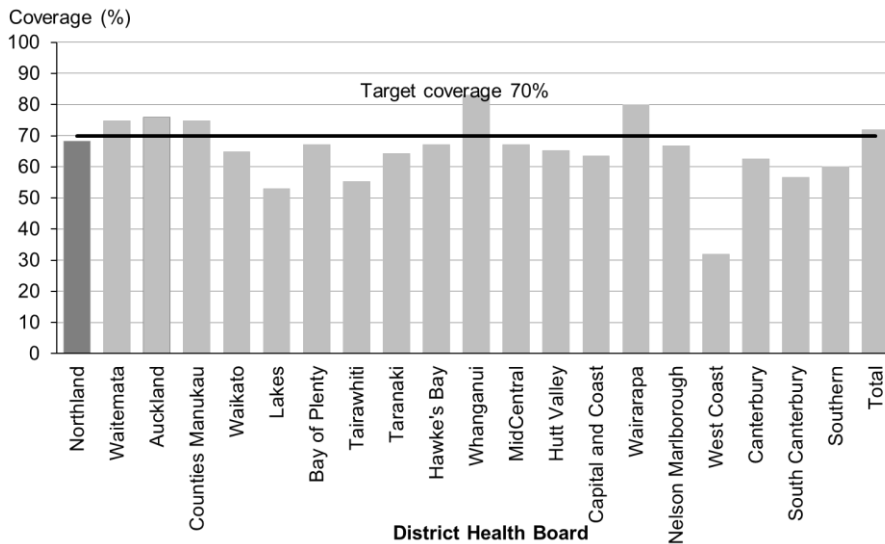


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

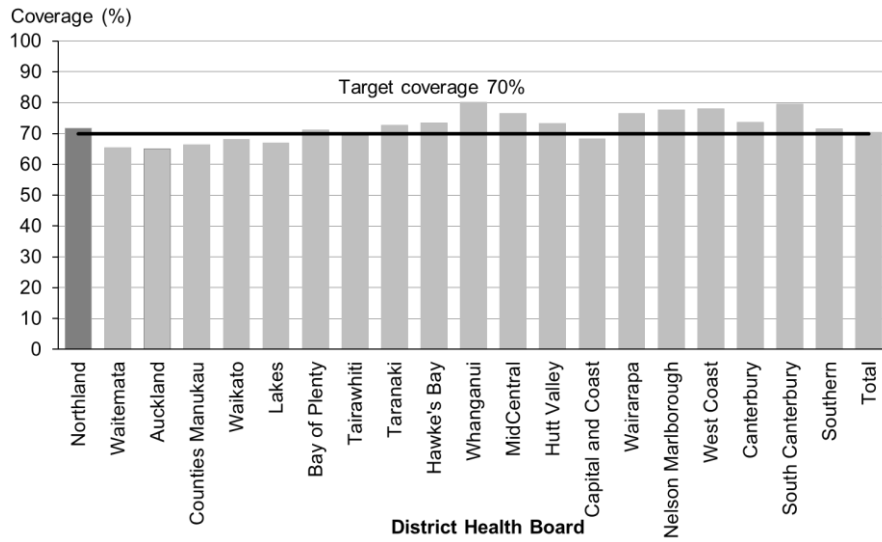


Table 3: BSA number of screens and coverage (%) of women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

DHB name	Eligible population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	N/A*	Total	Māori	Pacific	Other	Total
Northland	5,558	248	18,000	23,798	3,792	169	13,110	1	17,072	68.2%	68.3%	72.8%	71.7%
Waitemata	4,340	3,280	59,775	67,403	2,538	2,451	39,040	2	44,031	58.5%	74.7%	65.3%	65.3%
Auckland	3,373	4,498	42,408	50,260	2,034	3,413	27,204	14	32,665	60.3%	75.9%	64.1%	65.0%
Counties Manukau	6,155	8,238	40,993	55,373	3,909	6,157	26,689	1	36,756	63.5%	74.7%	65.1%	66.4%
Waikato	7,125	750	38,933	46,800	4,307	487	26,985	48	31,827	60.4%	64.9%	69.3%	68.0%
Lakes	3,248	200	9,803	13,253	2,002	106	6,749	8	8,865	61.6%	53.0%	68.8%	66.9%
Bay of Plenty	4,970	240	24,353	29,570	2,979	161	17,900	16	21,056	59.9%	67.1%	73.5%	71.2%
Tairāwhiti	2,208	89	3,514	5,810	1,488	49	2,528	0	4,065	67.4%	55.2%	71.9%	70.0%
Taranaki	1,618	83	13,190	14,880	985	53	9,790	0	10,828	60.9%	64.2%	74.2%	72.8%
Hawke's Bay	3,475	375	17,828	21,663	2,359	252	13,280	4	15,895	67.9%	67.2%	74.5%	73.4%
Whanganui	1,460	98	6,858	8,403	1,057	81	5,602	2	6,742	72.4%	83.1%	81.7%	80.2%
MidCentral	2,523	343	18,720	21,570	1,632	230	14,636	2	16,500	64.7%	67.2%	78.2%	76.5%
Hutt Valley	1,930	940	14,568	17,443	1,288	614	10,849	13	12,764	66.7%	65.3%	74.5%	73.2%
Capital & Coast	2,528	1,883	29,183	33,583	1,615	1,195	20,112	33	22,955	63.9%	63.5%	68.9%	68.4%
Wairarapa	633	63	5,581	6,280	472	50	4,280	1	4,803	74.6%	80.0%	76.7%	76.5%
Nelson Marlborough	1,245	128	20,058	21,430	906	85	15,643	3	16,637	72.8%	66.7%	78.0%	77.6%
West Coast	365	25	4,256	4,650	265	8	3,356	1	3,630	72.6%	32.0%	78.8%	78.1%
Canterbury	3,118	810	60,655	64,580	2,142	506	44,915	25	47,588	68.7%	62.5%	74.0%	73.7%
South Canterbury	353	30	7,976	8,350	278	17	6,353	1	6,649	78.9%	56.7%	79.6%	79.6%
Southern	2,123	285	36,755	39,165	1,311	171	26,512	22	28,016	61.8%	60.0%	72.1%	71.5%
Unspecified	0	0	0	60	114	16	697	0	827				
National	58,343	22,601	473,403	554,320	37,473	16,271	336,230	197	390,171	64.2%	72.0%	71.0%	70.4%

* N/A = not applicable, ethnicity of screened women was not recorded.

DHB coverage by ethnicity

Table 4: BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2014, 2015 and 2016* by ethnicity and District Health Board

District Health Board	Māori			Pacific			Other		
	Mar-14	Mar-15	Mar-16	Mar-14	Mar-15	Mar-16	Mar-14	Mar-15	Mar-16
Northland	73.1%	69.0%	68.2%	84.8%	75.7%	68.3%	74.8%	73.8%	72.8%
Waitemata	60.1%	58.3%	58.5%	78.5%	75.5%	74.7%	64.0%	65.2%	65.3%
Auckland	65.0%	62.3%	60.3%	77.2%	76.0%	75.9%	65.3%	64.4%	64.1%
Counties Manukau	65.9%	65.4%	63.5%	79.6%	77.5%	74.7%	65.2%	66.0%	65.1%
Waikato	55.0%	58.2%	60.4%	57.1%	65.0%	64.9%	66.5%	69.4%	69.3%
Lakes	61.3%	64.8%	61.6%	46.9%	50.5%	53.0%	69.2%	71.3%	68.8%
Bay of Plenty	59.9%	59.4%	59.9%	72.5%	75.2%	67.1%	71.5%	73.0%	73.5%
Tairāwhiti	67.4%	67.0%	67.4%	62.5%	52.9%	55.2%	74.2%	72.4%	71.9%
Taranaki	63.7%	61.5%	60.9%	72.7%	62.4%	64.2%	78.4%	76.0%	74.2%
Hawke's Bay	66.7%	66.9%	67.9%	65.7%	68.3%	67.2%	75.8%	75.2%	74.5%
Whanganui	72.9%	70.1%	72.4%	81.2%	82.3%	83.1%	80.3%	78.2%	81.7%
MidCentral	63.8%	62.4%	64.7%	73.5%	68.3%	67.2%	77.0%	78.1%	78.2%
Hutt Valley	65.4%	66.9%	66.7%	63.3%	66.0%	65.3%	72.5%	76.3%	74.5%
Capital & Coast	61.1%	60.4%	63.9%	58.7%	59.6%	63.5%	66.3%	68.3%	68.9%
Wairarapa	68.9%	67.2%	74.6%	80.0%	80.0%	80.0%	71.9%	75.2%	76.7%
Nelson Marlborough	82.2%	74.7%	72.8%	75.0%	63.8%	66.7%	81.7%	78.5%	78.0%
West Coast	74.9%	77.7%	72.6%	30.0%	33.7%	32.0%	76.3%	78.1%	78.8%
Canterbury	75.5%	71.9%	68.7%	68.3%	64.9%	62.5%	77.4%	75.5%	74.0%
South Canterbury	77.8%	76.9%	78.9%	52.2%	53.3%	56.7%	81.8%	80.4%	79.6%
Southern	67.4%	65.2%	61.8%	65.4%	61.7%	60.0%	76.8%	74.4%	72.1%
NATIONAL	65.2%	64.4%	64.2%	74.3%	73.0%	72.0%	71.6%	71.6%	71.0%

* March 2014 coverage is calculated using the 2014 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the March 2015 and March 2016 calculations use 30 June 2014 update of the 2013 census based population projections

Key ≥ 70% 60–69.9% < 60%