

BSA District Health Board Coverage Report

For the period ending 31 December
2014

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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 December 2012, 31 December 2013 and 31 December 2014 were extracted from the national Breast Screen Aotearoa database (the Database) for December 2012 in February 2013, for December 2013 in February 2014 and for December 2014 on 23 January 2015.

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 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. The denominator is the projected population for the mid-point of the monitoring period. This means that for the two-year period ending 31 December 2014, the denominator is the projected population for 31 December 2013.

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.

New Zealand DHB coverage

New Zealand coverage by ethnicity in the two years ending 31 December 2014

Figure 1: BSA coverage (%) in the two years ending 31 December 2014 by ethnicity, women aged 50–69 years, all district health boards

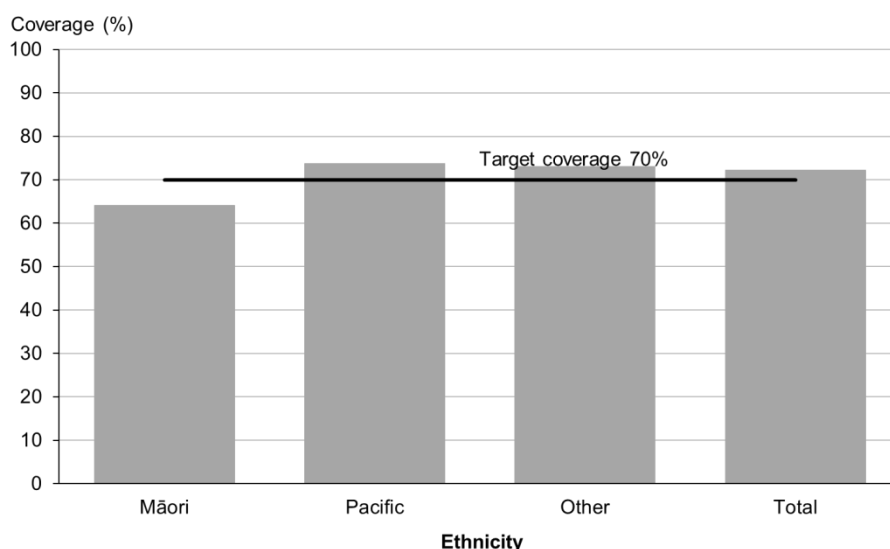


Table 1: BSA coverage (%) in the two years ending 31 December 2014 by ethnicity, women aged 50–69 years, All District Health Boards

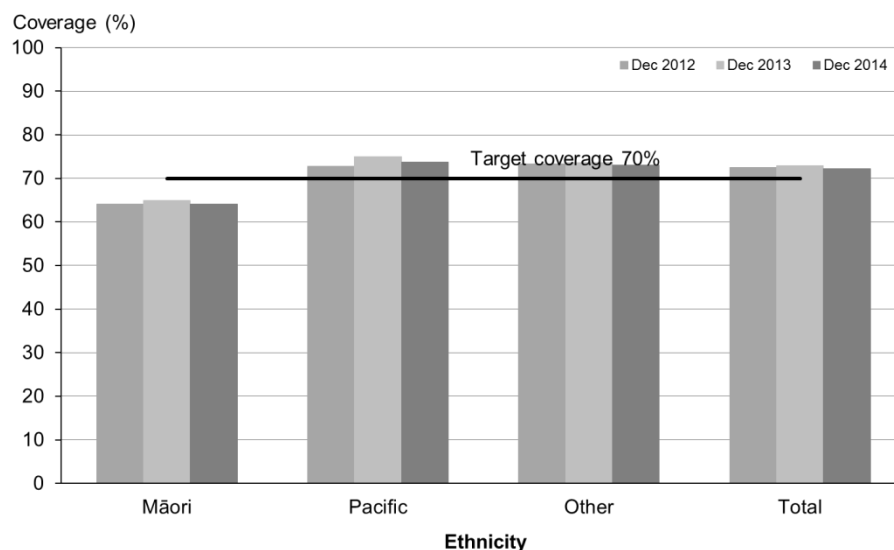
Ethnicity	Population	Women screened in last 2 years	2-year coverage	Additional screens to reach 70% target
Māori	55,695	35,698	64.1%	3289
Pacific	21,468	15,818	73.7%	
Other	459,938	336,021	73.1%	
Total*	537,160	387,879	72.2%	

*For the total population the number of additional screens is the number required to move from 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.

New Zealand coverage trends by ethnicity

Figure 2: BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2012, 31 December 2013, and 31 December 2014* by ethnicity, all district health boards



* December 2012 and December 2013 coverage is calculated using the 2015 update of the 2001 to 2013 DHB population estimates based on the 2013 Census, whereas the December 2014 uses the 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 4 2013–Quarter 4 2014, all district health boards

Ethnicity	Number of screens by quarter				
	Q4 (Oct-Dec) 2013	Q1 (Jan-Mar) 2014	Q2 (Apr-Jun) 2014	Q3 (Jul-Sep) 2014	Q4 (Oct-Dec) 2014
Māori	3,876	4,774	5,003	4,589	4,502
Pacific	1,777	1,746	2,142	2,343	2,148
Other	37,112	40,382	46,645	47,459	41,567
Total	42,765	46,902	53,790	54,391	48,217

DHB coverage comparisons

DHB coverage by ethnicity in the two years ending 31 December 2014

Figure 3: BSA coverage (%) of Māori women aged 50–69 years in the two years ending 31 December 2014 by district health board

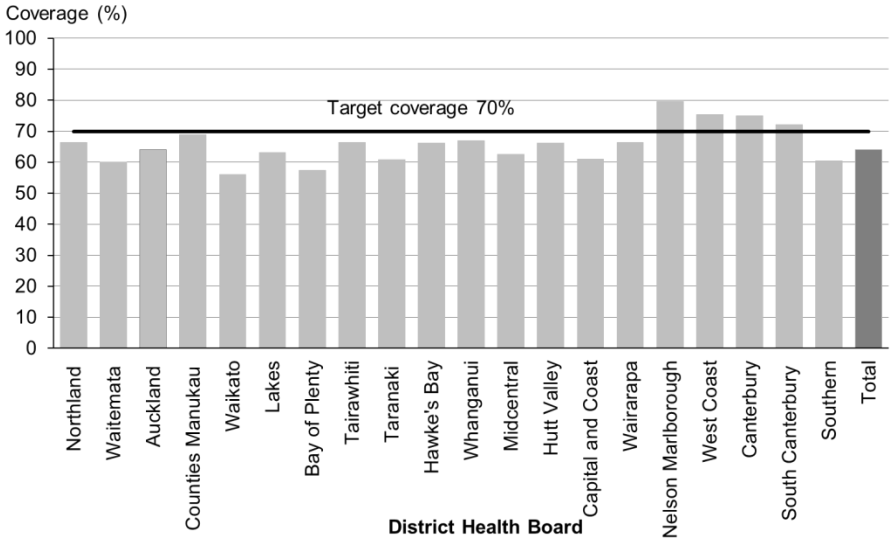


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 December 2014 by district health board

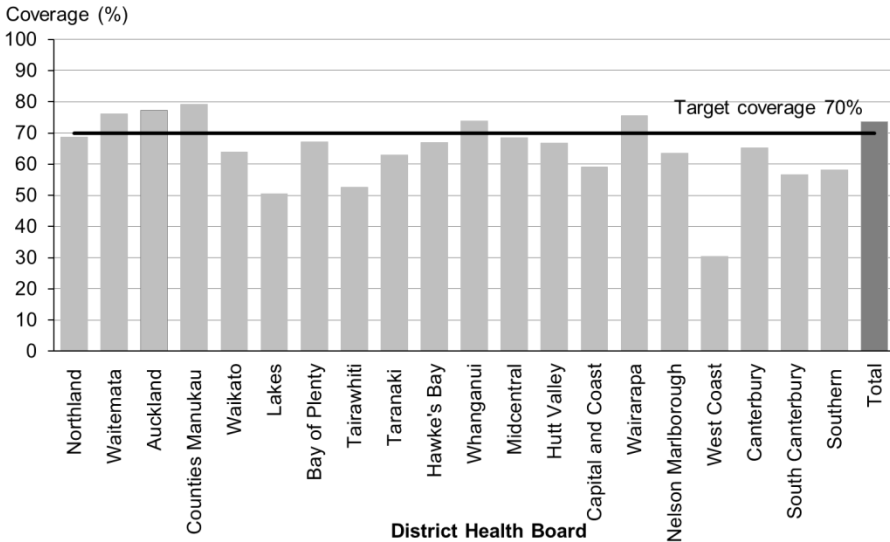


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 December 2014 by district health board

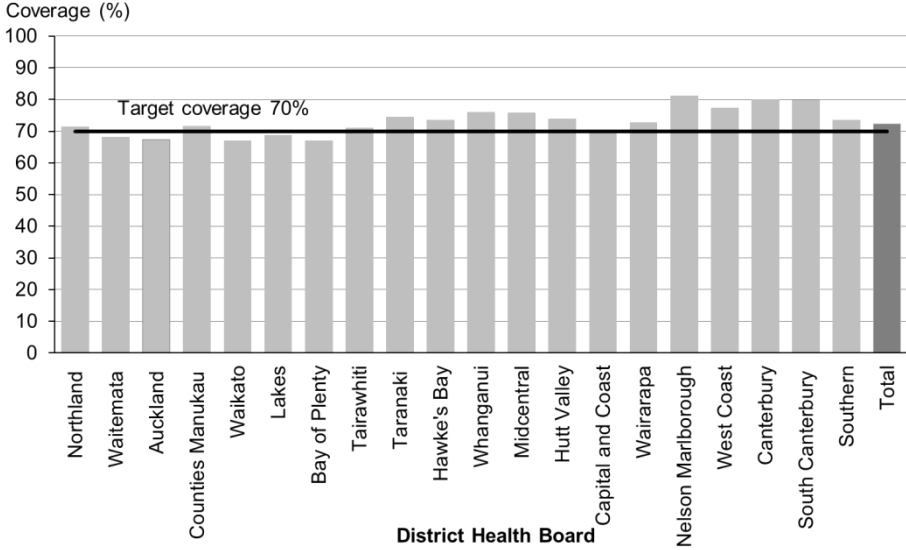


Table 3: BSA number of screens and coverage (%) of women aged 50–69 years in the two years ending 31 December 2014 by district health board

DHB name	Eligible population				Screens					Coverage			
	Māori	Pacific	Other	Total	Māori	Pacific	Other	N/A*	Total	Māori	Pacific	Other	Total
Northland	5,300	230	17,670	23,200	3,515	158	12,868	15	16,556	66.3%	68.7%	72.8%	71.4%
Waitemata	4,140	3,120	57,710	64,970	2,487	2,373	39,292	53	44,205	60.1%	76.1%	68.1%	68.0%
Auckland	3,220	4,380	40,830	48,430	2,064	3,385	27,136		32,585	64.1%	77.3%	66.5%	67.3%
Counties Manukau	5,890	7,740	39,405	53,035	4,055	6,122	27,785	2	37,964	68.8%	79.1%	70.5%	71.6%
Waikato	6,805	705	38,030	45,540	3,810	450	26,212	48	30,520	56.0%	63.8%	68.9%	67.0%
Lakes	3,135	200	9,570	12,905	1,981	101	6,777	11	8,870	63.2%	50.5%	70.8%	68.7%
Bay of Plenty	4,760	210	23,800	28,770	2,731	141	16,375	19	19,266	57.4%	67.1%	68.8%	67.0%
Tairāwhiti	2,140	78	3,438	5,655	1,419	41	2,554	3	4,017	66.3%	52.6%	74.3%	71.0%
Taranaki	1,550	73	12,840	14,463	944	46	9,771	3	10,764	60.9%	63.0%	76.1%	74.4%
Hawke's Bay	3,340	360	17,455	21,155	2,208	241	13,048	35	15,532	66.1%	66.9%	74.8%	73.4%
Whanganui	1,405	88	6,740	8,233	941	65	5,228	4	6,238	67.0%	73.9%	77.6%	75.8%
MidCentral	2,400	310	18,385	21,095	1,503	212	14,262	4	15,981	62.6%	68.4%	77.6%	75.8%
Hutt Valley	1,850	895	14,250	16,995	1,224	597	10,717	12	12,550	66.2%	66.7%	75.2%	73.8%
Capital and Coast	2,435	1,835	28,295	32,565	1,485	1,083	20,104	40	22,712	61.0%	59.0%	71.1%	69.7%
Wairarapa	595	53	5,495	6,143	395	40	4,030	2	4,467	66.4%	75.5%	73.3%	72.7%
Nelson Marlborough	1,175	115	19,580	20,870	936	73	15,921	9	16,939	79.7%	63.5%	81.3%	81.2%
West Coast	340	23	4,150	4,513	256	7	3,226		3,489	75.3%	30.4%	77.7%	77.3%
Canterbury	2,890	760	58,530	62,180	2,168	495	46,998	32	49,693	75.0%	65.1%	80.3%	79.9%
South Canterbury	345	30	7,820	8,195	249	17	6,246	1	6,513	72.2%	56.7%	79.9%	79.5%
Southern	1,980	265	35,945	38,190	1,197	154	26,695	46	28,092	60.5%	58.1%	74.3%	73.6%
Unspecified				60	130	17	776	3	926				
Total	55,695	21,468	459,938	537,160	35,698	15,818	336,021	342	387,879	64.1%	73.7%	73.1%	72.2%

* 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 December 2012, 2013 and 2014*, by ethnicity and district health board

District Health Board	Māori			Pacific			Other		
	Dec-12	Dec-13	Dec-14	Dec-12	Dec-13	Dec-14	Dec-12	Dec-13	Dec-14
Northland	70.2%	69.3%	66.3%	71.8%	70.7%	68.7%	74.4%	74.0%	72.8%
Waitemata	64.9%	62.5%	60.1%	77.7%	78.0%	76.1%	67.8%	68.1%	68.1%
Auckland	66.4%	67.7%	64.1%	78.2%	80.5%	77.3%	66.3%	68.1%	66.5%
Counties Manukau	66.6%	68.9%	68.8%	74.1%	79.6%	79.1%	69.2%	70.2%	70.5%
Waikato	54.0%	55.5%	56.0%	55.9%	56.3%	63.8%	66.1%	66.3%	68.9%
Lakes	59.0%	61.2%	63.2%	45.6%	45.4%	50.5%	71.0%	69.0%	70.8%
Bay of Plenty	56.2%	58.1%	57.4%	65.9%	70.9%	67.1%	71.4%	69.4%	68.8%
Tairāwhiti	65.8%	68.0%	66.3%	58.7%	56.5%	52.6%	71.3%	74.5%	74.3%
Taranaki	58.7%	62.7%	60.9%	70.4%	69.6%	63.0%	75.2%	78.3%	76.1%
Hawke's Bay	62.6%	65.1%	66.1%	62.1%	64.5%	66.9%	73.7%	74.7%	74.8%
Whanganui	69.0%	72.5%	67.0%	77.6%	82.4%	73.9%	78.2%	81.1%	77.6%
MidCentral	62.2%	62.9%	62.6%	69.0%	76.0%	68.4%	75.3%	76.7%	77.6%
Hutt Valley	64.9%	61.9%	66.2%	68.0%	63.3%	66.7%	72.7%	71.3%	75.2%
Capital and Coast	64.4%	63.4%	61.0%	64.7%	62.4%	59.0%	71.1%	71.5%	71.1%
Wairarapa	69.6%	66.4%	66.4%	73.8%	80.0%	75.5%	71.4%	71.5%	73.3%
Nelson Marlborough	80.9%	82.1%	79.7%	80.0%	74.9%	63.5%	82.4%	82.2%	81.3%
West Coast	75.7%	77.4%	75.3%	42.7%	30.0%	30.4%	78.3%	78.1%	77.7%
Canterbury	77.8%	78.7%	75.0%	66.3%	66.9%	65.1%	83.2%	83.3%	80.3%
South Canterbury	77.9%	73.5%	72.2%	71.6%	65.5%	56.7%	82.7%	81.8%	79.9%
Southern	59.1%	61.1%	60.5%	65.1%	60.6%	58.1%	77.9%	78.3%	74.3%
Total	64.1%	65.0%	64.1%	72.7%	75.0%	73.7%	73.4%	73.7%	73.1%

* December 2012 and December 2013 coverage is calculated using the 2015 update of the 2001–2013 census based population estimates, whereas December 2014 uses the 30 June 2014 update of the 2013 census based population projections

Key ■ ≥ 70% ■ 60–69.9% ■ < 60%