

BSA 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.

New Zealand coverage

New Zealand 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, All District Health Boards

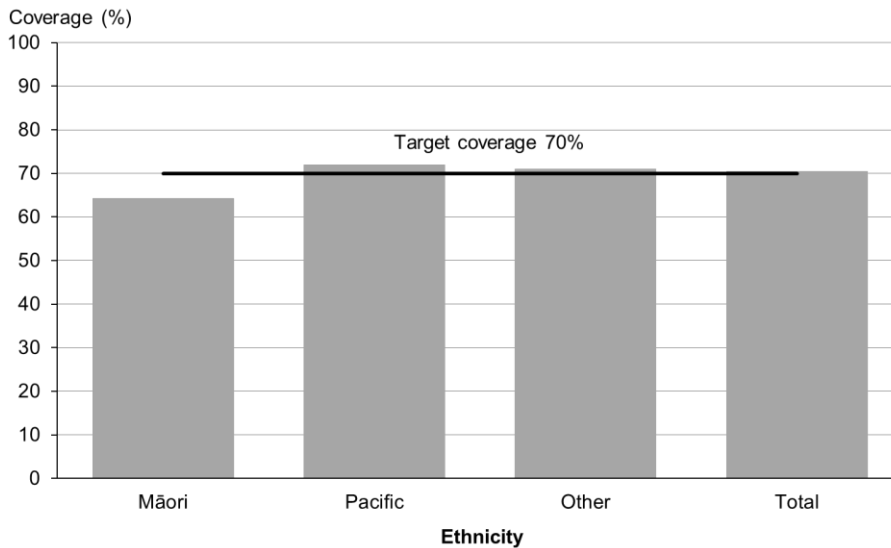


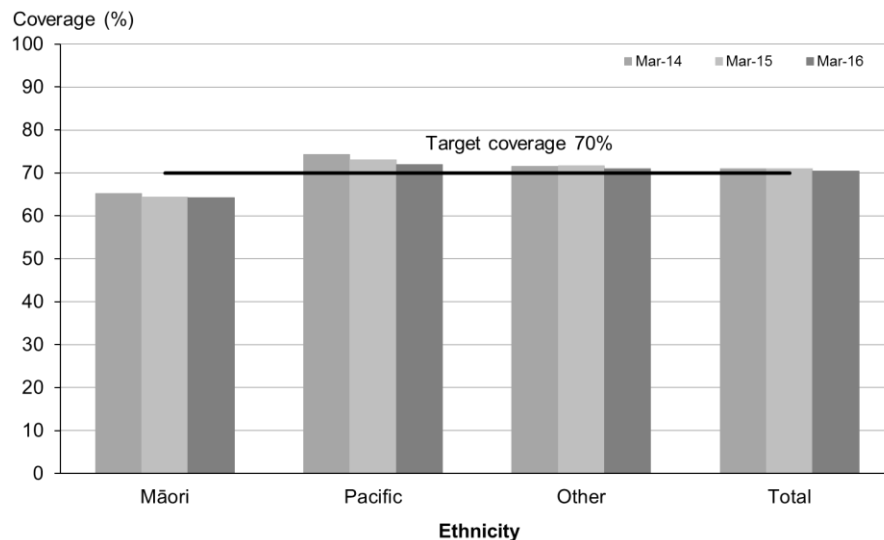
Table 1: BSA coverage (%) in the two years ending 31 March 2016 by ethnicity, women aged 50–69 years, All District Health Boards

| Ethnicity | Population | Women screened in last 2 years | 2-year coverage | Additional screens to reach 70% target |
|---------------|----------------|--------------------------------|-----------------|--|
| Māori | 58,343 | 37,473 | 64.2% | 3,367 |
| Pacific | 22,601 | 16,271 | 72.0% | |
| Other | 473,403 | 336,230 | 71.0% | |
| Unspecified | | 197 | | |
| Total* | 554,320 | 390,171 | 70.4% | |

**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.*

New Zealand 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, All District Health Boards



* 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, All District Health Boards

| Ethnicity | Number of screens by quarter | | | | |
|--------------|------------------------------|---------------------|---------------------|---------------------|-------------------|
| | Q1 (Jan-Mar) 2015 | Q2 (Apr - Jun) 2015 | Q3 (Jul - Sep) 2015 | Q4 (Oct - Dec) 2015 | Q1 (Jan-Mar) 2016 |
| Māori | 4,875 | 5,297 | 5,241 | 4,415 | 5,238 |
| Pacific | 1,893 | 2,189 | 2,389 | 2,056 | 1,931 |
| Other | 42,330 | 47,203 | 49,617 | 39,166 | 43,037 |
| Total | 49,098 | 54,689 | 57,247 | 45,637 | 50,206 |

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

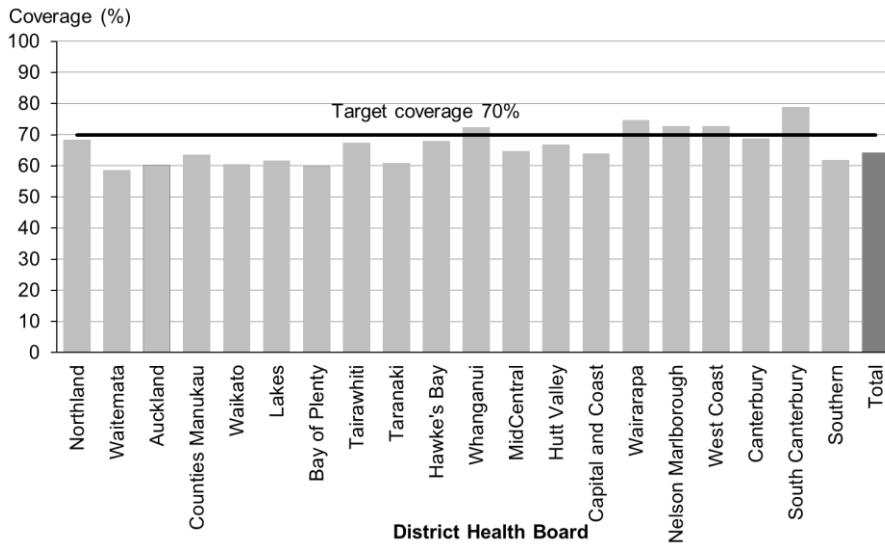


Figure 4: BSA coverage (%) of Pacific women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

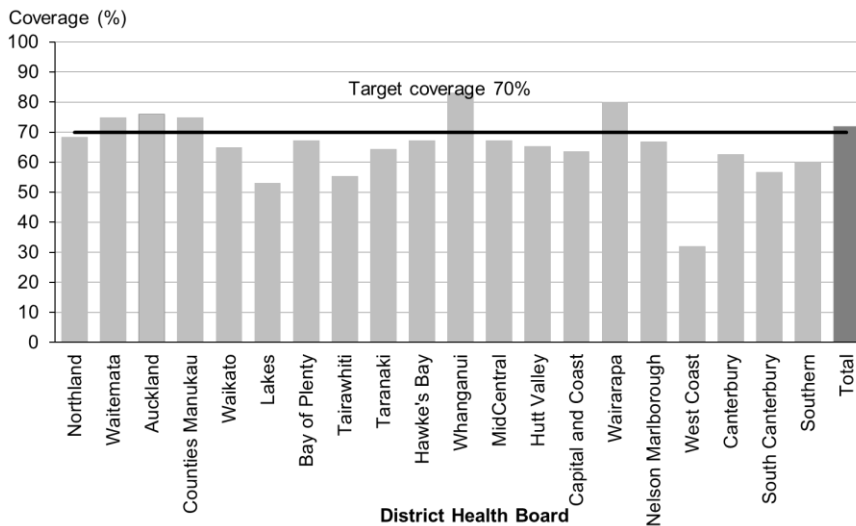


Figure 5: Overall BSA coverage (%) of women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

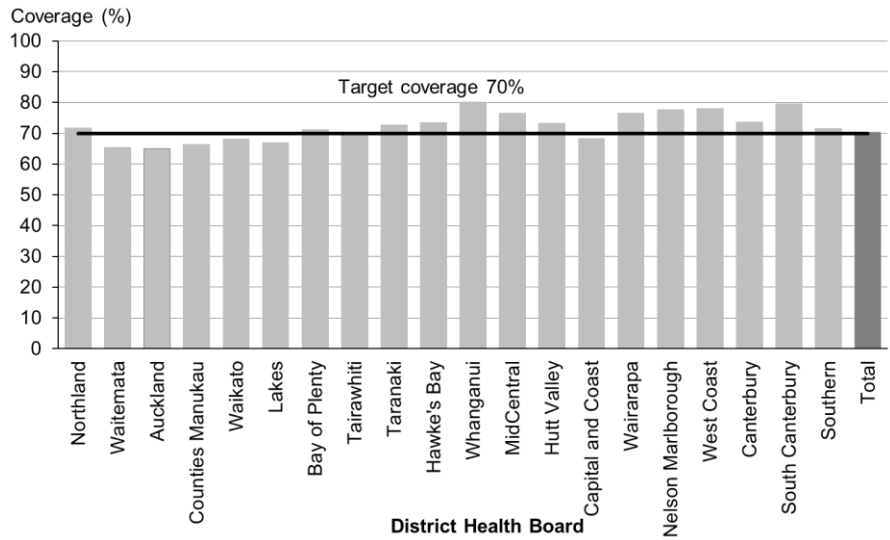


Table 3: BSA number of screens and coverage (%) of women aged 50–69 years in the two years ending 31 March 2016 by District Health Board

| 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%