BLSH Denominator Review

Prior to 2022, the denominators for WCTO indicators were calculated using babies NHIs recorded in the WCTO database, including those that did not have matches in the NHI register.

The WCTO team has decided that from 2022, all WCTO reporting including the indicators in the Quality Improvement Framework, Qlik and the Monthly Report will count only babies with NHIs in the NHI register.

# Review

Base on the decision that only valid NHIs will be included, we have therefore reviewed the calculation of BLSH denominators. This is to

1. be consistent with the change to other WCTO reports, and
2. align better with the definition of BLSH which only includes NHI register.

# Impact

Excluding WCTO contacts will reduce the denominator and therefore result in higher BLSH rates.

As shown in Table 2, for period Jan – Jun 22, the BLSH rate has increased from last year. On the national level, using the old denominator, the BLSH rate would have gone up from 55.9% to 60.1%, comparing to July – Dec 21. With the new denominator, it has a larger increased to 65.0%. Change for districts varies from 3% to 8%. This change has a smaller impact on Māori, Pacific People and high deprived areas, compared to other groups, as shown in table 3 and 4.

# Appendix

Table 1, Numerator and denominator in BLSH calculation

New denominator includes NHI register only

|  |  |  |
| --- | --- | --- |
| Reporting Period (six monthly) | Numerator | Old Denominator |
|  | WCTO | NHI Register | WCTO |
| November Report (data covers 1Jan – 30Jun same year)  | Babies under 56 days old on the contact date, and the contact is between 1 Jan – 30 Jun. | Babies born between 15 Nov – 14 May | 1. Babies who had a valid contact, but NHI doesn’t match NHI register
2. Babies born between 15 May – 30 Jun with valid contact
 |
| May Report (Data covers 1Jul – 31Dec previous year) | Babies under 56 days old on the contact date, and the contact is between 1 Jul – 31 Dec. | Babies born between 15 May – 14 Nov | 1. Babies who had a valid contact, but NHI doesn’t match NHI register
2. Babies born between 15 Nov – 31 Dec with valid contact
 |

Table 2, Changes from the old denominator and previous two reports, by Districts

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **DHB** | **Jan-Jun21** | **Jul-Dec21** | **Old DenominatorNHI and WCTO** | **New DenominatorNHI** | **change\_new and old** |
| **Jan - Jun 22** |
| Auckland | 60.3% | 64.5% | 66.8% | 72.1% | 5.2% |
| Bay of Plenty | 50.5% | 48.9% | 55.2% | 59.8% | 4.6% |
| Canterbury | 64.7% | 59.6% | 67.0% | 72.5% | 5.5% |
| Capital and Coast | 61.0% | 57.3% | 58.8% | 63.6% | 4.8% |
| Counties Manukau | 48.2% | 55.2% | 56.9% | 61.8% | 5.0% |
| Hawkes Bay | 51.8% | 44.4% | 53.7% | 58.1% | 4.4% |
| Hutt Valley | 63.4% | 56.4% | 62.5% | 70.5% | 8.1% |
| Lakes | 48.9% | 42.4% | 56.1% | 59.8% | 3.7% |
| MidCentral | 54.8% | 54.0% | 63.1% | 70.3% | 7.2% |
| Nelson Marlborough | 56.7% | 57.3% | 66.6% | 71.6% | 5.0% |
| Northland | 42.0% | 44.4% | 46.6% | 49.7% | 3.0% |
| South Canterbury | 64.6% | 71.0% | 67.9% | 71.9% | 4.1% |
| Southern | 64.5% | 63.4% | 62.2% | 67.3% | 5.1% |
| Tairāwhiti | 52.3% | 36.3% | 47.2% | 52.5% | 5.3% |
| Taranaki | 50.4% | 51.7% | 60.8% | 64.9% | 4.1% |
| Waikato | 51.3% | 48.1% | 53.8% | 57.5% | 3.7% |
| Wairarapa | 66.8% | 44.3% | 60.2% | 63.4% | 3.2% |
| Waitematā | 62.3% | 66.8% | 65.9% | 70.7% | 4.8% |
| West Coast | 47.1% | 32.6% | 52.7% | 58.8% | 6.1% |
| Whanganui | 40.0% | 39.6% | 49.6% | 53.7% | 4.1% |
| **National** | **56.1%** | **55.9%** | **60.1%** | **65.0%** | **4.9%** |

Table 3, Changes by Ethnicity

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Ethnicity** | **Jan-Jun21** | **Jul-Dec21** | **Old DenominatorNHI and WCTO** | **New DenominatorNHI** | **change\_new and old** |
| **Jan - Jun 22** |
| Māori | 37.3% | 31.0% | 40.9% | 43.8% | 2.9% |
| Pacific People | 41.9% | 45.1% | 51.7% | 55.5% | 3.7% |
| nonMāori, nonPacific | 66.2% | 67.8% | 68.8% | 74.8% | 6.0% |
| **Total** | **56.1%** | **55.9%** | **60.1%** | **65.0%** | **4.9%** |

Table 4, Changes by Deprivation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Deprivation Quintile** | **Jan-Jun21** | **Jul-Dec21** | **Old DenominatorNHI and WCTO** | **New DenominatorNHI** | **change\_new and old** |
| **Jan - Jun 22** |
| Quintile 1 (lowest deprivation) | 64.8% | 67.0% | 68.1% | 73.7% | 5.5% |
| Quintile 2 | 63.4% | 64.7% | 66.3% | 71.8% | 5.6% |
| Quintile 3 | 60.5% | 60.1% | 63.1% | 68.3% | 5.2% |
| Quintile 4 | 56.1% | 53.1% | 60.6% | 65.4% | 4.9% |
| Quintile 5 (highest deprivation) | 43.9% | 43.6% | 49.3% | 53.2% | 3.9% |
| **Total** | **56.1%** | **55.9%** | **60.1%** | **65.0%** | **4.9%** |