

Hospital admissions for children aged five years with a primary diagnosis of asthma

HQMNZ ID: HQM16.6.29.931

Outcome

All children and their families and whānau achieve their health and wellbeing potential.

Measure

Hospital admissions for children aged five years with a primary diagnosis of asthma or wheeze

Type

Contributory measure

Relationship(s) to other frameworks

This measure is drawn from the:

- District Health Board (DHB) Non-financial monitoring framework and performance measures (measure SI1): Ministry of Health. 2015. DHB Non-financial monitoring framework and performance measures – Sept 2015. Wellington: Ministry of Health Framework available at: www.health.govt.nz

Rationale

Asthma reduction has been identified as one of five key areas that can contribute to Iwi and Government Whānau Ora aspirations. Asthma is a chronic inflammatory disorder which causes narrowing of the lower airways. New Zealand has high rates of asthma with symptom severity greatest among Māori and Pacific children. Individual level interventions have been shown to be effective in reducing avoidable hospitalisations due to asthma. The effectiveness of population level interventions to reduce asthma remains unclear.

Eligible population

DHB Coverage: All children who are within the five year old cohort at time of admission who are enrolled with the DHB at the beginning of the qualifying year. **PHO Coverage:** All children who are within the five year old cohort at time of admission who are enrolled with the PHO at the beginning of the qualifying year.

Measure status

Active

Numerator

DHB Coverage: In the year to which the reporting relates, the total number of children under five years of age, (i.e. ages 0 to 4yrs 364 days) who are enrolled with the DHB at the beginning of the qualifying year who were admitted to hospital under a primary diagnosis of asthma (ICD 10 Codes: J45, J46 and R062).

PHO Coverage: In the year to which the reporting relates, the total number of children under five years of age, (i.e. ages 0 to 4yrs 364 days) who are enrolled with the PHO at the beginning of the qualifying year who were admitted to hospital under a primary diagnosis of asthma (ICD 10 Codes: J45, J46 and R062).

Denominator

DHB Coverage: In the year to which the reporting relates, the total number of children in the five year old cohort who are enrolled with the DHB. PHO Coverage: In the year to which the reporting relates, the total number of children in the five year old cohort who are enrolled with the PHO.

National target

Expected improvement should fall in the following ranges based on baseline position: Baseline Level - total population Expected Improvement > 35% Above National Rate 15% to 20% 25% to 35% Above National Rate 10% to 14.9% 15% to 25% Above National Rate 6% to 9.9% 5% to 15% Above National Rate 3% to 5.9% 5% Below to 5% Above National Rate 1% to 2.9% < 95% of National Rate Remain Below

Local Target

Milestones decided by Alliance

Data Sources

- PHO Enrolment Data
- National Minimum Data Set
- Statistics New Zealand Population Projections

Data extracted from data sources

- National Health Index (NHI) number
- ICD Classification Code

Data availability

Data will be released by the Ministry of Health six monthly.

Measure calculation process

DHB Coverage:

- **Numerator:** Derived from Nation Minimum Data Set (NMDS) data hospital admissions as per definition above.
- **Denominator:** Derived from PHO enrolment data and age standardised using World Health Organisation (WHO) population age group distribution.

PHO Coverage:

- **Numerator:** Derived from NMDS data hospital admissions as per definition above.
- **Denominator:** Derived from PHO enrolment data.

Relationship(s) to other measures

Measure development notes

Technical notes:

- Current reporting as part of DHB Non-financial monitoring framework and performance measures – Sept 2015. PHO level reporting will need to be further developed and information to measure performance made accessible to sector by Ministry of Health.