

People with diabetes having a lower-limb amputation

Te Tāhū Hauora
Health Quality & Safety
Commission



Source: [/measure/people-diabetes-having-lower-limb-amputation-0](#)

Description

This indicator shows the number and percent of people with diabetes undergoing a lower-limb amputation.

Rationale

Diabetes is a major cause of non-traumatic amputations and is a strong indicator on the quality of care. Wide variation in rates may highlight disparities. Monitoring variations in amputation rates serves as an indicator of the quality and effectiveness of health care services, especially diabetes management. Many lower-limb amputations are preventable through early detection, proper management of diabetes, and timely interventions for foot ulcers and vascular issues. Understanding variations can help identify areas where preventive measures and interventions need to be strengthened.

Measure set

Diabetes domain

Health areas and conditions

Interventions

Measure type

Count
Percent

Numerator

People with diabetes recorded as having a lower-limb amputation

Numerator detail

Procedure (ICD10) Codes: 4433800, 4435800, 9055700, 4436100, 4436400, 4436401, 4436101, 4437000, 4437300, 4436700, 4436701, 4436702.

Note: Only one amputation per person in the VDR is reported in this indicator.

Numerator exclusions

Cancer and trauma amputations with following clinical codes (ICD-10-AM-VI) were excluded.

Trauma

Clinical code

Clinical code description

S78

Traumatic amputation of hip and thigh

S88

Traumatic amputation of lower leg

S98

Traumatic amputation of ankle and foot

T05.3

Traumatic amputation of both feet

T05.4

Traumatic amputation of one foot and other leg [any level, except foot]

T05.5

Traumatic amputation of both legs [any levels]

T05.6

Traumatic amputation of upper and lower limbs, any combination [any level]

T13.6

Traumatic amputation of lower limb, level unspecified

Primary lower-limb cancer

Clinical code

Clinical code description

C40.2

Malignant neoplasm of long bones of lower limb

C40.3

Malignant neoplasm of short bones of lower limb

C43.7

Malignant melanoma of lower limb, including hip

C49.2

Malignant neoplasm of connective and soft tissue of lower limb, including hip

Denominator

Count of distinct master NHIs identified as having diabetes on the VDR.

Denominator exclusions

Note:

- Cancer and trauma amputations with following clinical codes (ICD-10-AM-VI) were excluded.
- Only one amputation per person in the VDR is reported in this indicator.

Data sources

National Minimum Dataset (NMDS)

Virtual Diabetes Register (VDR)

Disaggregation

For single map analysis: By year (2018-2022), age group (0-14 years, 15-24 years, 25-44 years, 45-64 years, 65-74 years and 75+ years), gender (female and male), ethnic group (Māori, Pacific peoples, Indian and European/other) and Health New Zealand district of domicile.

For PHO analysis: By year (2022), age group (0-14 years, 15-24 years, 25-44 years, 45-64 years, 65-74 years and 75+ years), gender (female and male), ethnic group (Māori, Pacific peoples, Indian and European/other), PHO most recently enrolled with (for the relevant year), PHO group (small, medium, medium-large and large).

Notes

- Data is not presented where the number of people in the numerator was less than 10. This is to preserve confidentiality.
- Ethnicity data presented is prioritised ethnic group (Māori, Pacific peoples, Indian and European/other).
- For all indicators, individuals with missing values for any of the variables of interest (age, gender, ethnicity and district) are excluded completely. For instance, if there are any missing values for age, they are excluded from all analyses. This approach ensures a consistent denominator throughout the analyses.
- Demographic information is taken from the VDR.

Exclusions

- People who died during the year
- People not enrolled in a PHO

See technical document for details

Responsible organisation(s)

Health Quality & Safety Commission | Te Tahi Hauora

Measure methodology last updated

June 2024

Reference period

2018-2022