

Metadata: Non-melanoma skin cancer deaths

Information topic	Details
Indicator name	Non-melanoma skin cancer deaths
Domain and topic	UV Exposure: Non-melanoma skin cancer
Indicator definition and units	Mortality rate for non-melanoma skin cancer, per 100,000. Non-melanoma skin cancer is defined as ICD-10 AM C44.
Data source	New Zealand Mortality Collection, Health New Zealand
Numerator	Number of non-melanoma skin cancer deaths (ICD-10-AM C44). Non-residents have been excluded from the analysis.
Denominator	Population estimates (mid-year), prepared by Statistics New Zealand.
Methodology	Prioritised ethnicity has been used, in the following order: Māori, Pacific, Asian, European/Other. Results are presented by year, gender, age group, ethnic group, NZDep2018, urban/rural 2022 classification, and district. District refers to areas formerly known as District Health Boards (DHBs). Rates are per 100,000 people and have been age-standardised to the WHO world standard population (Ahmad et al 2001), to account for different age structures of populations.
Time period and time scale	Yearly records from 2001–2021.
Population coverage	New Zealand usually resident population of all ages.
Spatial Coverage	National
Measures of frequency	Results are presented by year, sex, ethnic group, age group, NZDep2018, Urban-Rural category and district. Urban/rural classification uses the IUR2018, with the categories ‘major urban areas’, ‘large urban areas’, ‘medium urban areas’, ‘small urban areas’, and ‘rural/other’. IUR2018 was assigned using the health domicile code of individuals in the Mortality Collection, and in cases where the domicile code overlapped an IUR2018 boundary, meshblock information from the linked Health Service User (HSU) population dataset was used to give a more precise IUR2018 category. In a small number of cases where the domicile code overlapped an IUR2018 boundary and there was insufficient HSU meshblock data to use, we assigned the individual to the most probable IUR2018 category based on land area and population in the domicile code.

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Confidence interval methodology	95% confidence intervals were calculated based on the methodology outlined in APHO (2008). Confidence intervals are presented as error bars on graphs.
Limitations of indicator	<ul style="list-style-type: none"> • The New Zealand Mortality Collection does not record the specific type of non-melanoma skin cancer. • The reported year was the year of death registration, not the year of death.
Related indicators	Daily UV levels Melanoma cancer registrations Melanoma deaths
For more information	Health New Zealand–Te Whatu Ora Mortality web tool: https://www.tewhaturora.govt.nz/our-health-system/data-and-statistics/mortality-web-tool
References	<p>Ahmad, O B, et al. (2001). <i>Age Standardization of Rates: A New WHO Standard (Technical Report)</i>. GPE Discussion Paper Series: No. 31. Geneva: World Health Organization.</p> <p>APHO. (2008). <i>Technical Briefing 3: Commonly used public health statistics and their confidence intervals</i>. York, UK: Association of Public Health Observatories.</p>