

Online supplemental material 1. Data sources and ICD-10 codes for cancer types related to smoking included in this study

We obtained national tabulated data on the numbers of deaths from cancer in Australia from 1955 to 2019 by sex, age and calendar year from the World Health Organization's Mortality Database¹ sourced from the Australian Institute of Health and Welfare.² In Australia, it is mandatory for each state and territory to record all deaths in registries administered by the state and territory Registries of Births, Deaths and Marriages, and either a medical practitioner or a coroner is required to certify the cause of death.³ For the purposes of our analyses, the cancer mortality data were aggregated into 5-year age groups and 5-year calendar periods. All age-standardised rates were standardised to the 2001 Australian population.

Australian population data by sex, 5-year age group and calendar year from 1955 to 2044 (Series B, based on medium population growth) were obtained from the Australian Bureau of Statistics (ABS).^{4,5} Smoking data for 1945-2004 were obtained from the International Smoking Statistics Web Edition, which provides data from several different surveys and information on annual tobacco sales,⁶ and the National Drug Strategy Household Survey (NDSHS) data for 2007-2019.⁷ Detailed descriptions of the data sources for smoking exposure can be found in our recent report on lung cancer mortality in Australia.⁸ In brief, sex-age-period-specific smoking prevalence and cigarette tar exposure per capita in Australia were re-constructed backwards to 1920 and forwards to 2044.⁸

Table S1. ICD-10 codes for cancer types related to smoking included in this study

Cancer	ICD10
>30% of cases caused by smoking	
Lung	C33-C34
Larynx	C32
Bladder	C67
Lip, oral cavity and pharynx	C00-C14, C30-C31
Oesophagus	C15
8-30% of cases caused by smoking	
Stomach	C16
Liver	C22
Gallbladder and biliary tract	C23-C24
Pancreas	C25
Colon and rectum	C18-C20, C26.0
Kidney and ureter	C64-C66
Myeloid Leukaemia	C92
Cervix	C53
Uterus	C54-C55
Ovary	C56

References:

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4. Australian Bureau of Statistics. Australian Historical Population Statistics. cat. no. 3105.0.65.001, 2014.
5. Australian Bureau of Statistics. Population Projections, Australia, 2017 (base) to 2066. cat. no. 3222.0 2021 [updated 22 Nov 2018. Available from: <https://www.abs.gov.au/statistics/people/population/population-projections-australia/latest-release>.
6. Forey B, Hamling J, Hamling J, et al. International smoking statistics (web edition): a collection of worldwide historical data, Methods.: P N Lee Statistics & Computing Ltd; 2016 [19 Dec 2016:[Available from: http://www.pnlee.co.uk/Downloads/ISS/ISS-Methods_161219.pdf accessed 20 Oct 2021.
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