Identifying health disparities by ethnicity using linked Census data

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We used an iterative consensus approach to develop a set of principles to use Census Ancestry data to identify health disparities by ethnicity

BACKGROUND

Ethnicity is not collected routinely in Australian health data. High quality data on the proxy of Ancestry is collected in the Australian Census. However, Census Ancestry data is difficult to use with limited guidance available. We aimed to develop an approach to using this data to examine health disparities.

RESULTS CONTINUED

2. For those reporting two ancestries: prioritise ethnic minority over national identities and for the remainder create multiethnic groups

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METHODS

An expert panel was formed with representatives from the Federation of Ethnic Communities' Councils, Australian Bureau of Statistics, and researchers from diverse disciplines. The work was also informed by a community panel with ethnically diverse representation and yarning circles led by Aboriginal and Torres Strait Islander academics. We analysed 2016 Census data linked to death registrations for 2016-2021 in 20.9 million people. We examined the health outcome of allcause mortality and compared how different decisions on how to categorise the population by ethnicity impacted on the detection of mortality inequalities between groups.

- based on the combined ancestries
- Approach to granularity. First analyse data at the maximum level of granularity but then collapse up granularity where no disparities are identified to simplify results and messaging.

Managing granularity example



Census Ancestry Question 2016

18 What is the person's ancestry?	English	English
 Provide up to two ancestries only. 	Irish	Irish
 Examples of 'Other': GREEK, VIETNAMESE, HMONG, 	Scottish	Scottish
KURDISH, MAORI, LEBANESE, AUSTRALIAN SOUTH SEA ISLANDER.	Italian	Italian
Remember to mark the box like this:	German	German
	Chinese	Chinese
(1) Go to census.abs.gov.au for more information.	Australian	Australian
	Other ancestry 1 (please specify)	Other ancestry 1 (please specify)

RESULTS

Zealander

We developed the following approach:

1. Recategorising those identifying as 'Australian' or 'New Zealander' only from the Oceania to the European category unmasked large inequalities in mortality experienced by Indigenous Peoples in our region.



Level 2 Asian groups – collapsed up one level



CONCLUSIONS

We developed a set of principles to use Australian Census Ancestry

data to identify health disparities by ethnicity. The recommendations facilitate harnessing valuable Census data to identify important health disparities and better inform future health policy in Australia.

ADDITIONAL KEY INFORMATION

Preprint available: <u>https://osf.io/preprints/osf/5vg7t</u>

Author Contact Information: <u>fiona.stanaway@sydney.edu.au</u> Funding Source: MRFF Cardiovascular Health Mission. 2022/MRF2016680 Conflicts of Interest: Nil

