

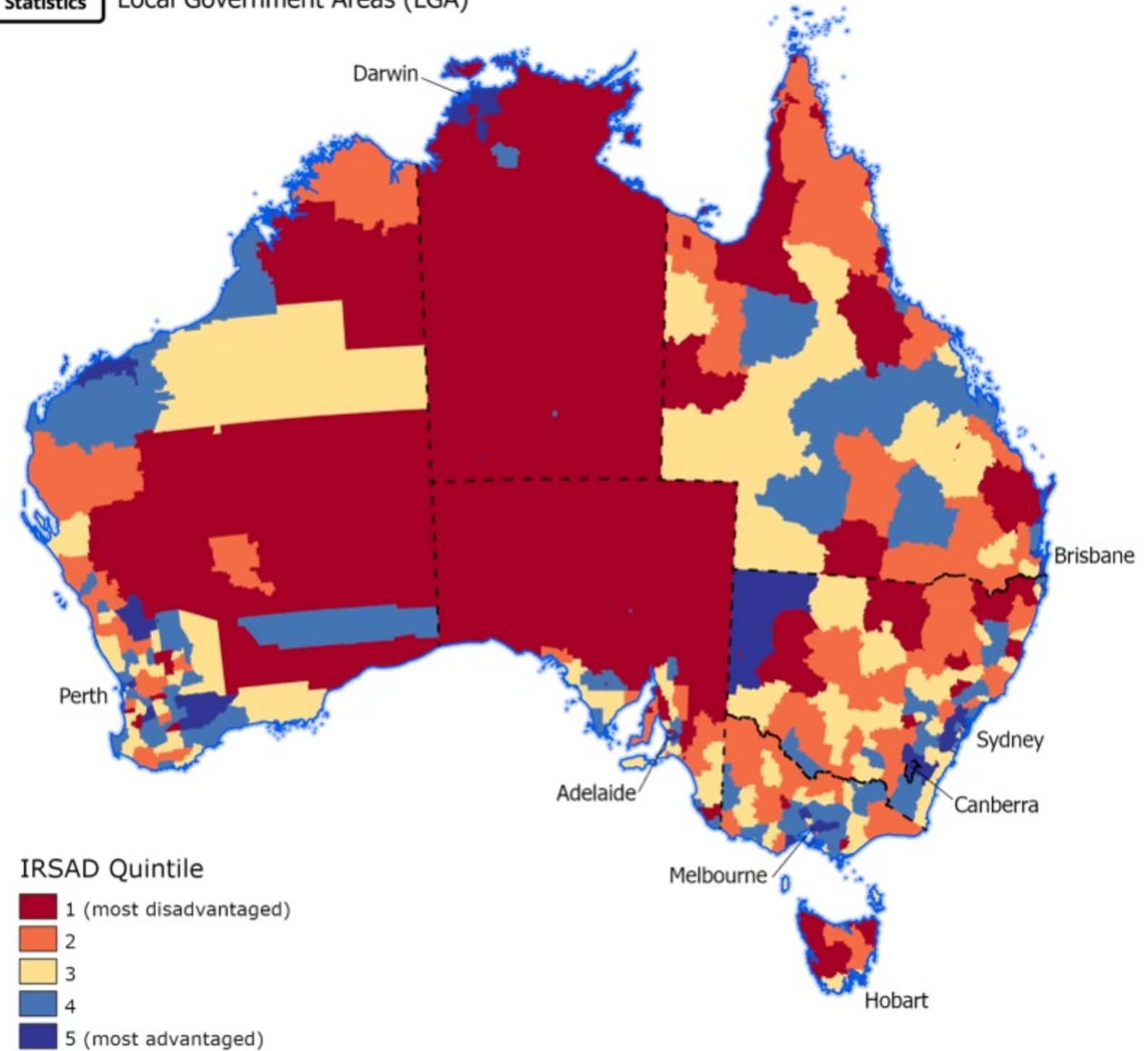
Oral disease burden among socially, economically disadvantaged populations



Profile of population – socioeconomic disadvantage



Index of Relative Socio-economic Advantage and Disadvantage (IRSAD) - Australia
Local Government Areas (LGA)



Source: Census of Population and Housing: Socio-Economic Indexes for Areas (SEIFA), 2021
Australian Statistical Geography Standard (ASGS), 2021
Geocentric Datum of Australia, Australia Albers, 1994
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Burden of oral disease among economically challenged

Age-standardised DALY rate by disease and socioeconomic group: Persons, 2018

Rate difference compared to national average (AUS)

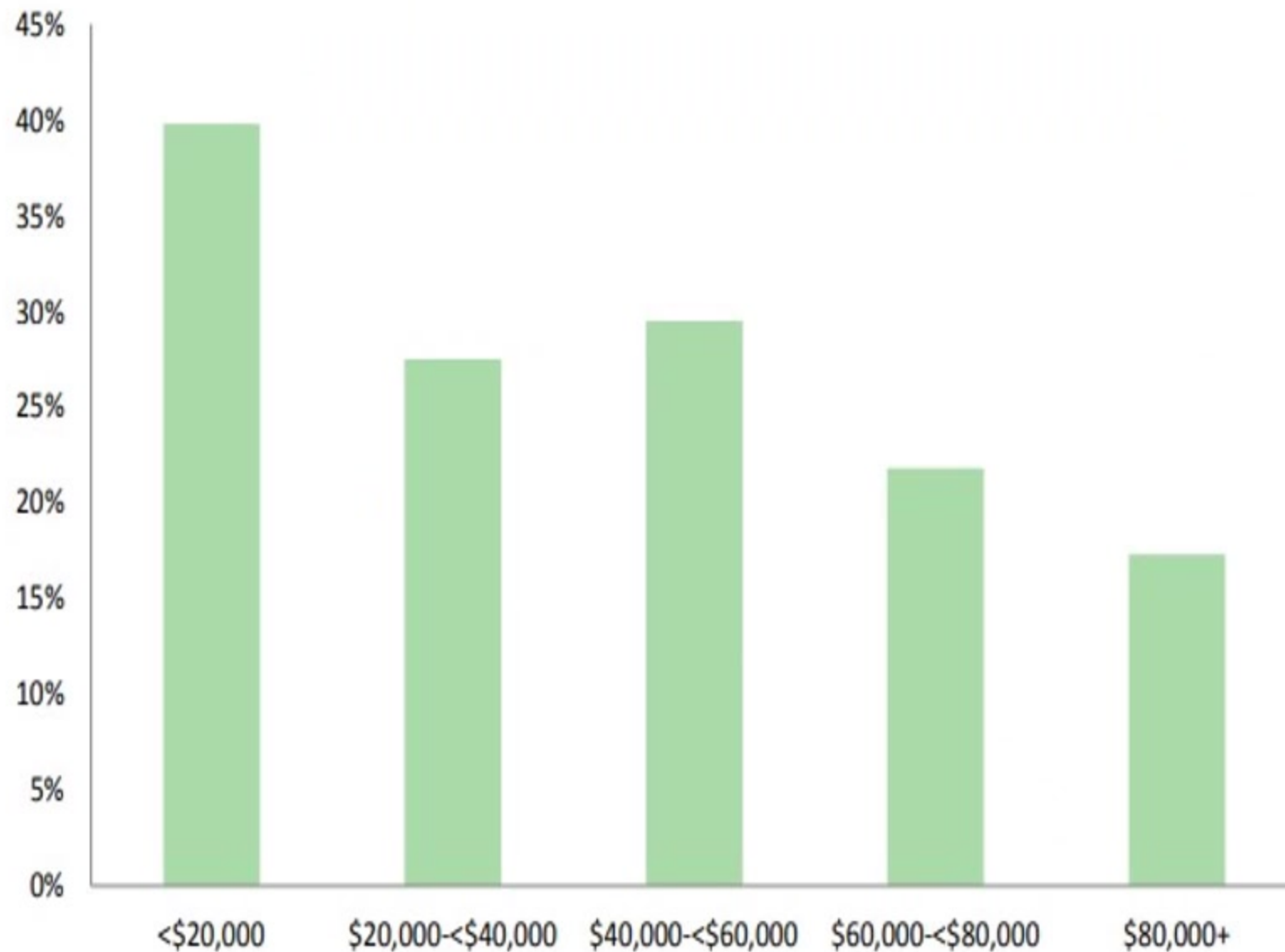


Hover over boxes for more information and scroll for more diseases/injuries.

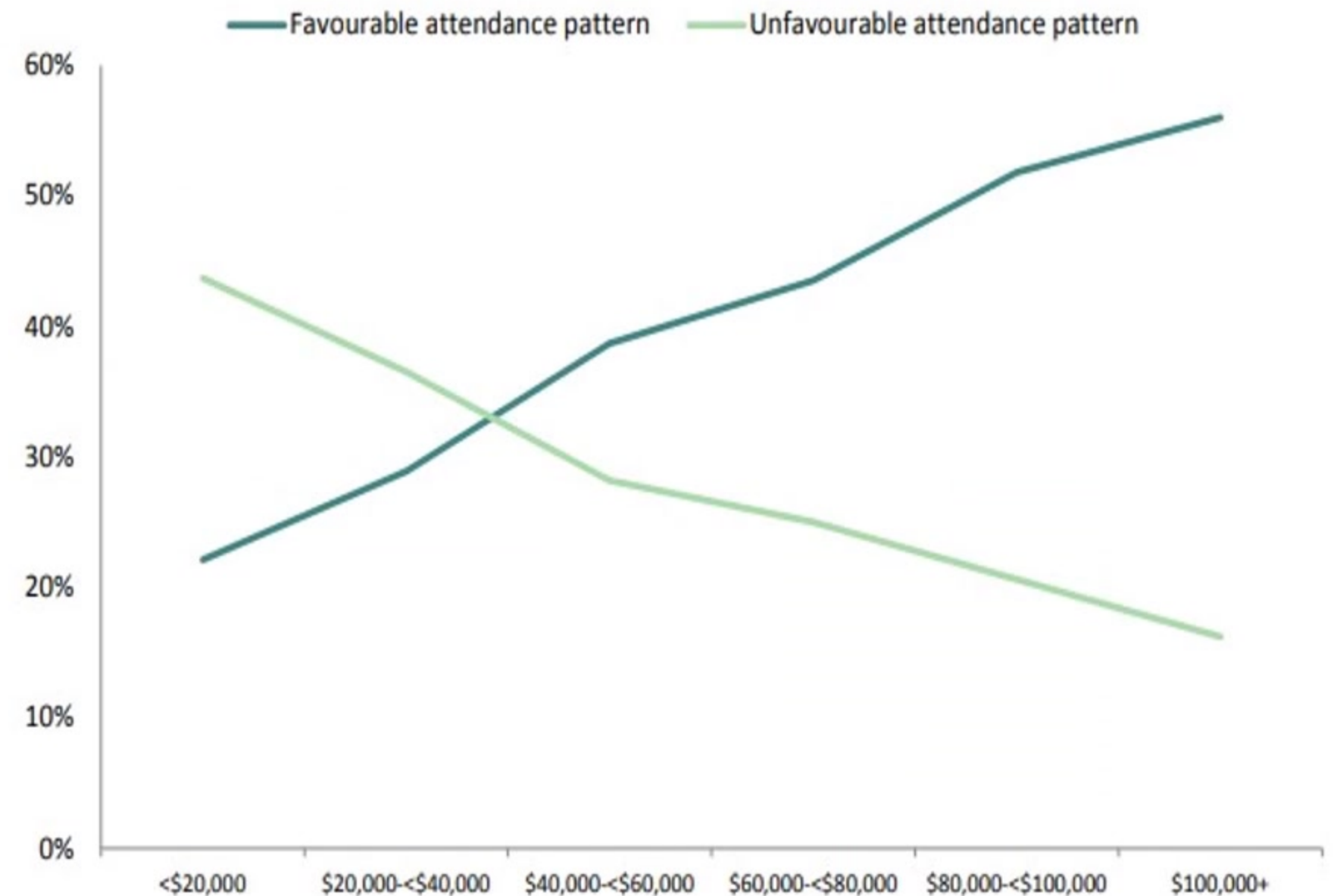
Disease group	Disease/Injury	Australia	1 (lowest)	2	3	4	5 (highest)
Oral disorders	Dental caries	2.0	2.3	2.3	2.1	1.8	1.4
	Periodontal disease	1.6	1.6	2.0	1.6	1.0	1.6
	Severe tooth loss	0.9	1.2	1.2	0.8	0.9	0.5
	Other oral disorders	0.0	0.0	0.0	0.0	0.0	0.0
	Lip and oral cavity cancer	0.4	0.6	0.4	0.3	0.3	0.2

Other relevant findings

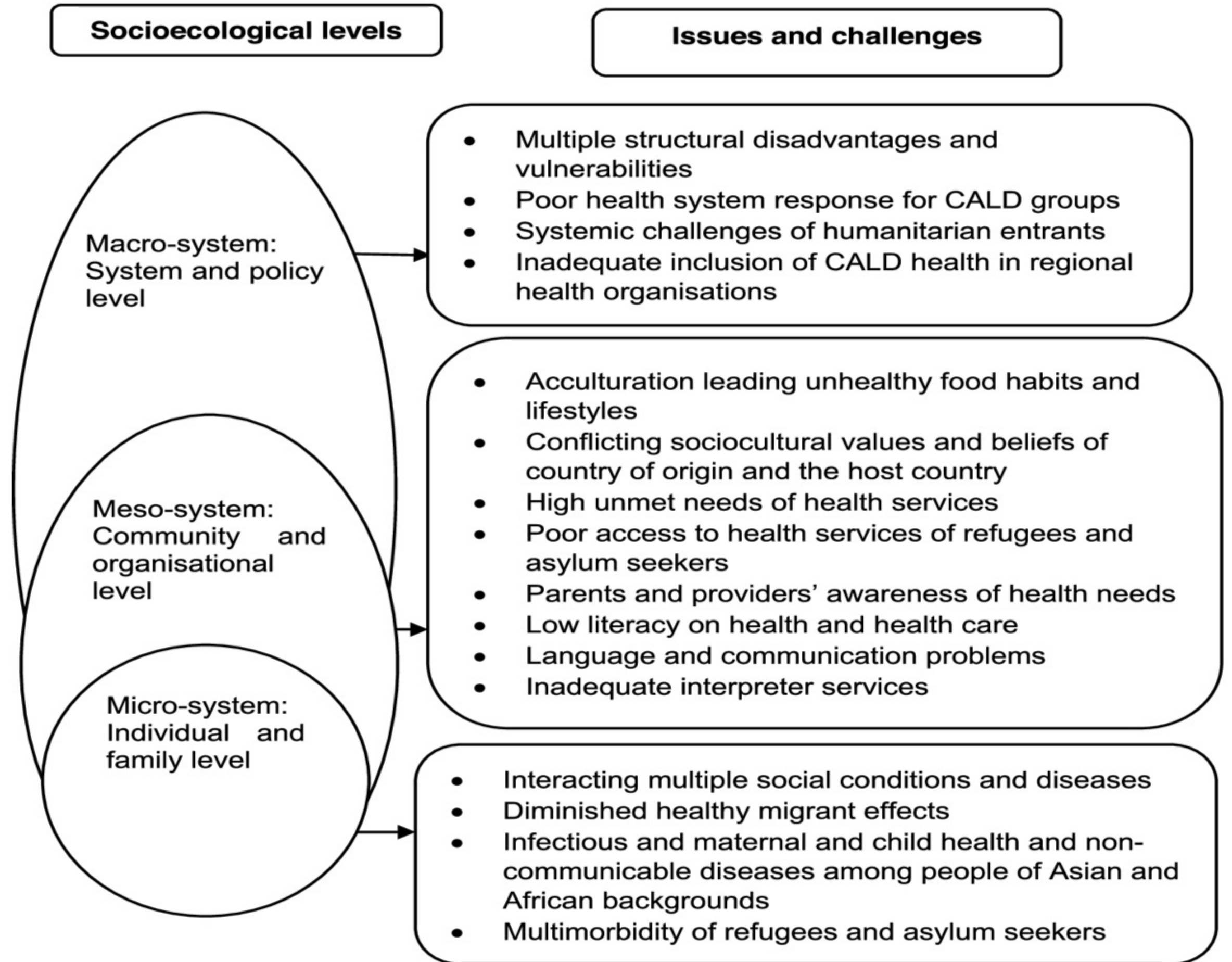
Proportion of adults with untreated decay by annual household income



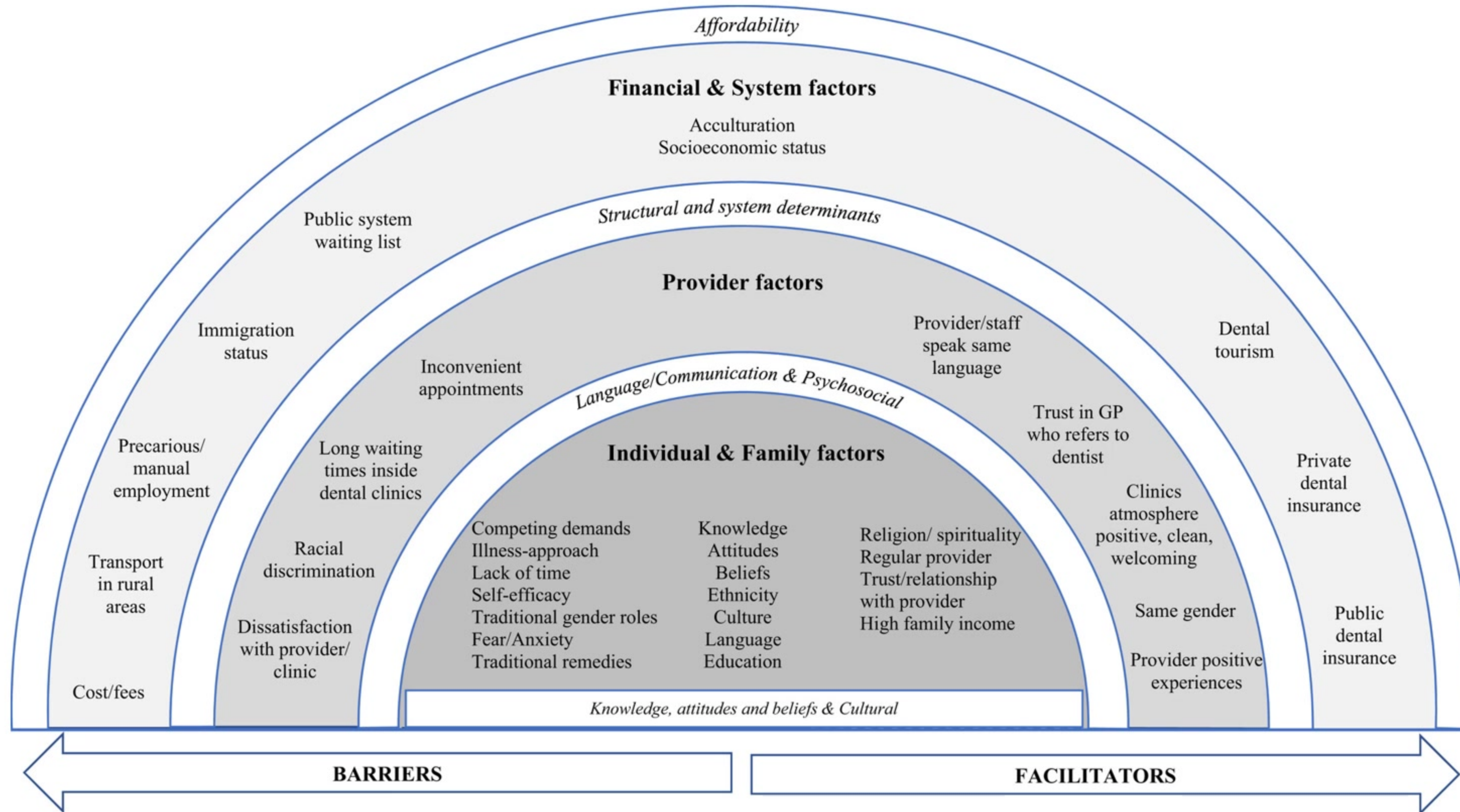
Patterns of dental attendance by annual household income



Culturally and Linguistically Diverse Populations – challenges faced.



Enablers and barriers to utilise oral health service among CaLD groups



Some findings

1

In 2017–18, people who spoke a language other than English were more likely to go to a public dental service (23%) than those who spoke English (17%).

2

In 2017–18, people who were born overseas and mainly spoke a language other than English at home were most likely to have needed dental care but avoided due to costs (42%).

3

Untreated caries was substantially higher among visible immigrant children aged 5-9 years (38.8%, 95% CI: 35.5-42.3) than non-immigrant (24.9%, 95% CI: 23.4-26.6) and non-visible immigrant children (21.0%, 95% CI: 17.7-24.7).

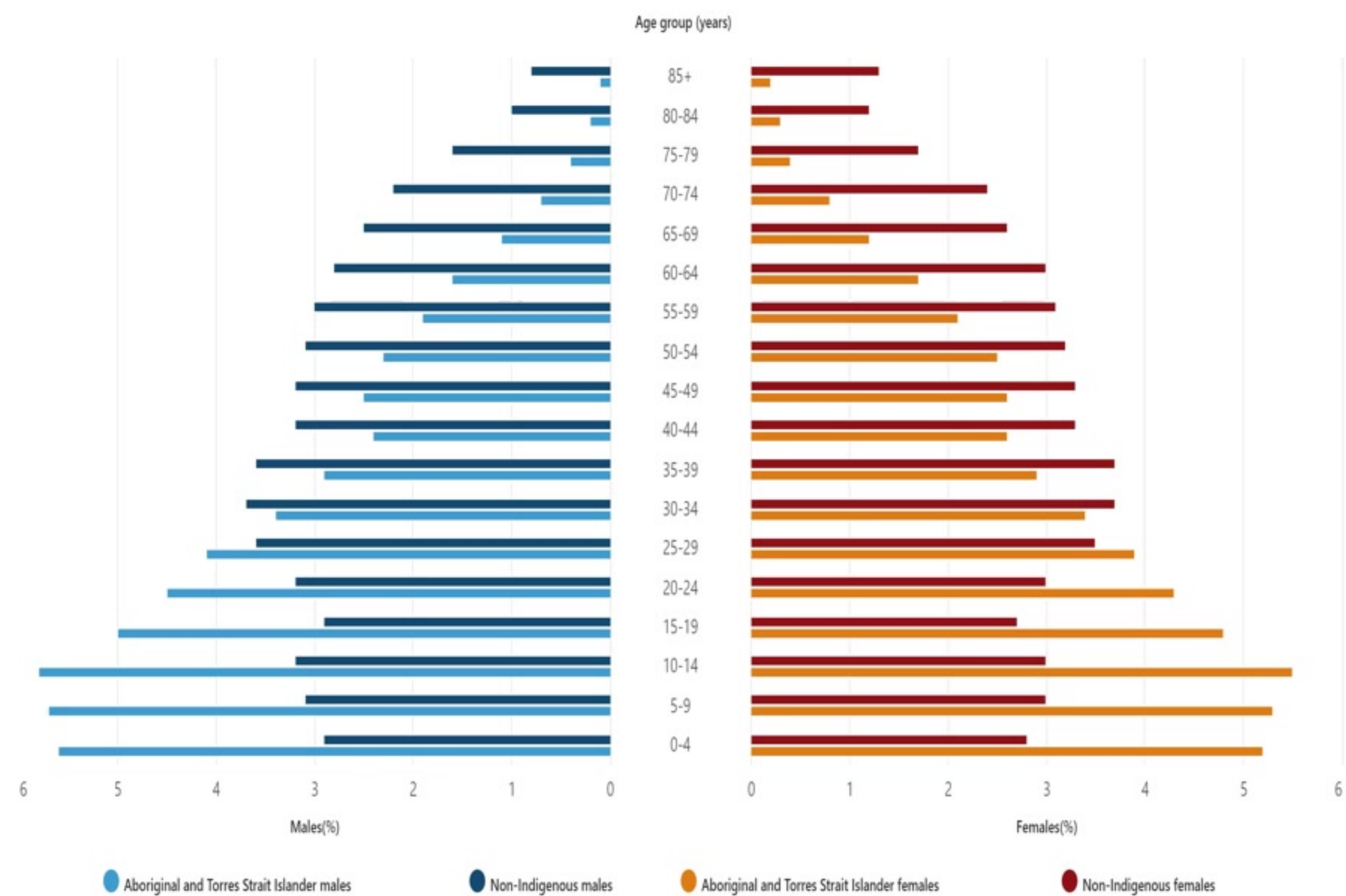
Burden of oral disease among Aboriginal and Torres Strait Islanders



Population demographic

Australian Bureau of Statistics
(2021), [Snapshot of Australia](#), ABS
Website, accessed 28 July 2024.

Aboriginal and Torres Strait Islander and non-Indigenous populations by age groups – 30 June 2021



Source: Australian Bureau of Statistics, Estimates of Aboriginal and Torres Strait Islander Australians 30 June 2021

	Aboriginal and Torres Strait Islander (%)	Non-Indigenous (%)	Total (%)
Major Cities of Australia	40.8	73.4	72.2
Inner Regional Australia	24.8	17.5	17.8
Outer Regional Australia	19	7.7	8.1
Remote Australia	6	1	1.2
Very Remote Australia	9.4	0.4	0.8

Burden of oral disease

In 2018, oral disorders accounted for 2.1% (4,952 out of 239,893 total DALY) of the total disease burden for Indigenous Australians, and 3.9% (4,917 out of 126,447 total YLD) of the non-fatal burden (years lived with disability).

Indigenous males experienced slightly more of the total burden due to oral disorders than Indigenous females (53% compared with 47%, respectively).

Dental caries was the leading cause of oral disease burden among Indigenous Australians, accounting for almost two-thirds (63%; 3,117 out of 4,952 total DALY due to oral disorders) of the burden due to oral disorders. This was followed by periodontal disease (22%; 1,081 DALY) and severe tooth loss (15%; 741 DALY).

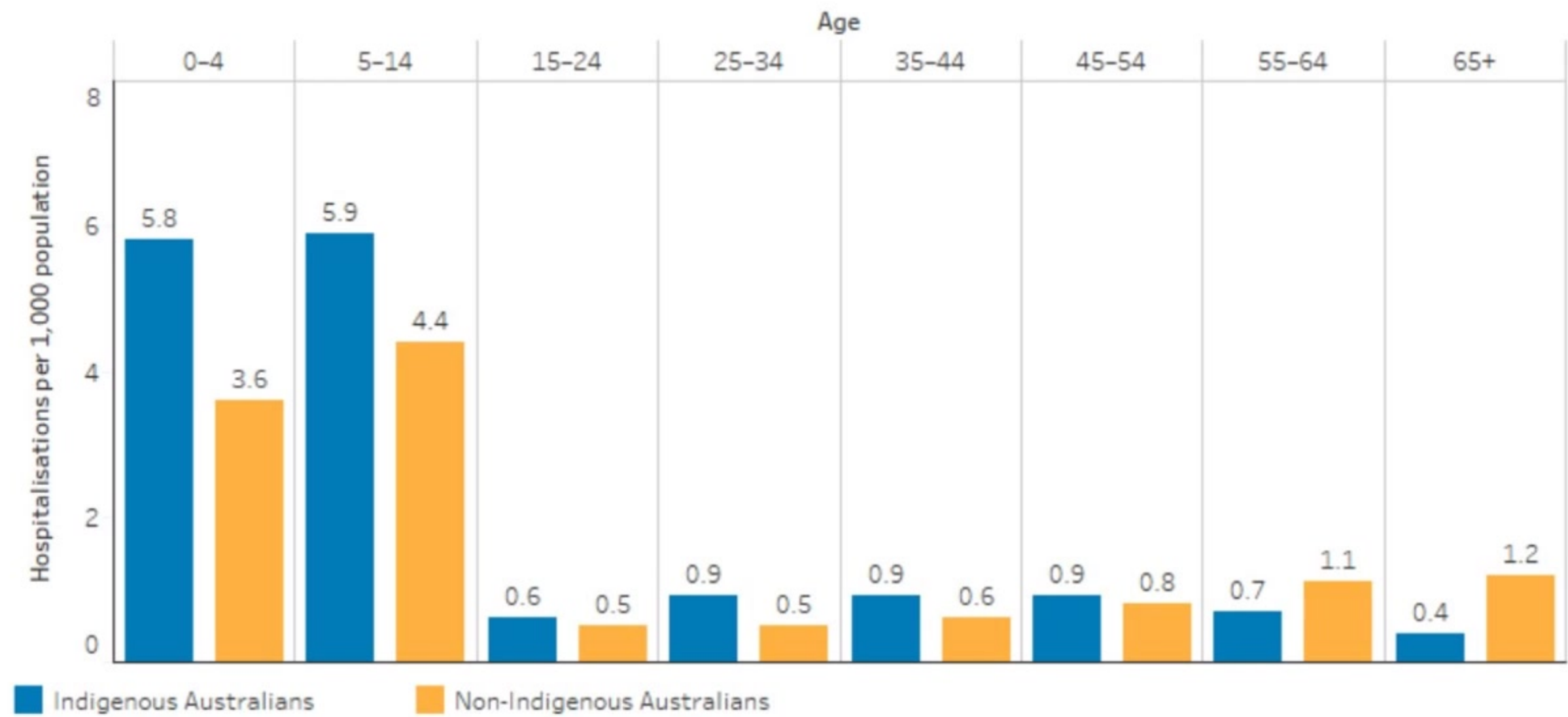
Dental caries accounted for almost all (99.7%; 505 out of 507 total DALY due to oral disorders) of the oral disorders burden for Indigenous Australians aged between 5–14 years, but generally had a decreasing contribution with age thereafter.

For Indigenous Australians over the age of 65, severe tooth loss was the leading cause of burden (48%; 315 out of 651 total DALY due to oral disorders), followed by dental caries (27%; 179 DALY) and periodontal disease (25%; 163 DALY).

Between 2003 and 2018, for Indigenous Australians, the total burden attributable to oral disorders increased by 17% (based on age-standardised rates). This was predominantly driven by an increase in the non-fatal burden ([AIHW 2022a](#), [2022b](#)).

High rates of hospitalisations for oral problems among Indigenous Australians

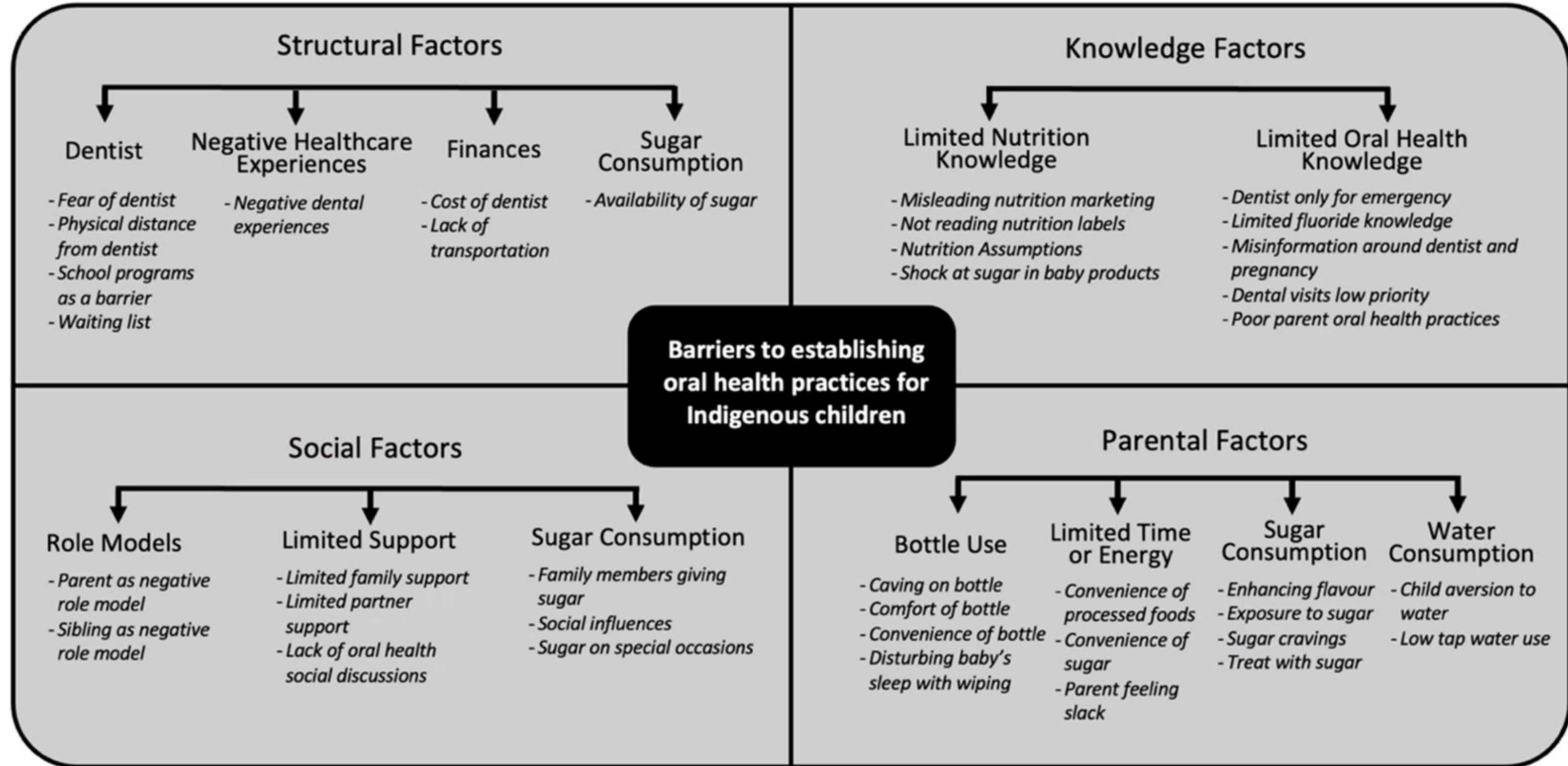
Figure 1.11.5: Age-specific hospitalisation rates for a principal diagnosis of dental problems, by Indigenous status and age, Australia, July 2017 to June 2019



Note: Principal diagnosis of dental problems includes dental caries; loss of teeth due to accident, extraction or local periodontal disease; and dental examination.

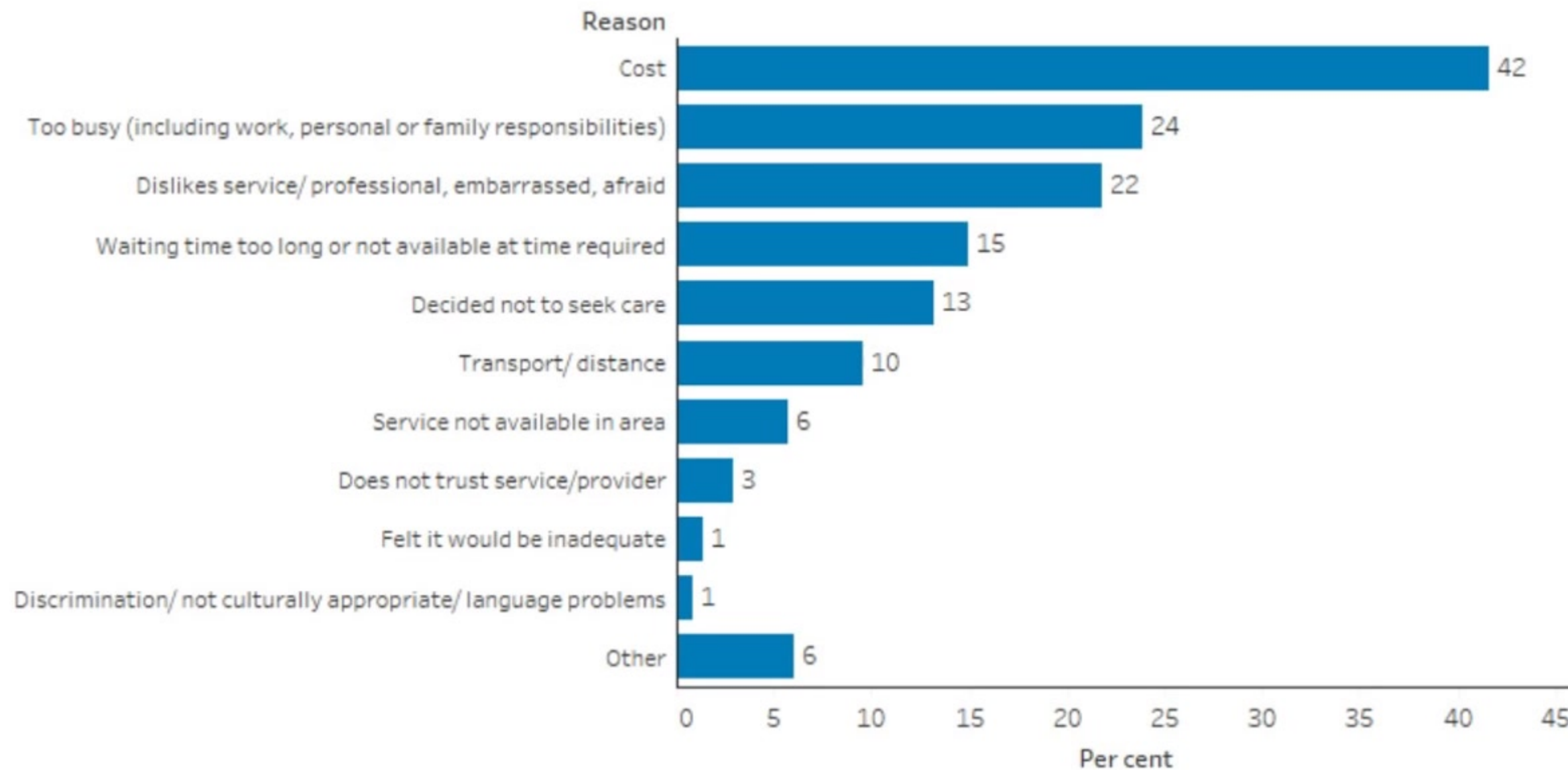
Source: Table D1.11.21. AIHW analysis of National Hospital Morbidity Database.

Oral health challenges among Indigenous children



Potential reasons for not accessing dental care

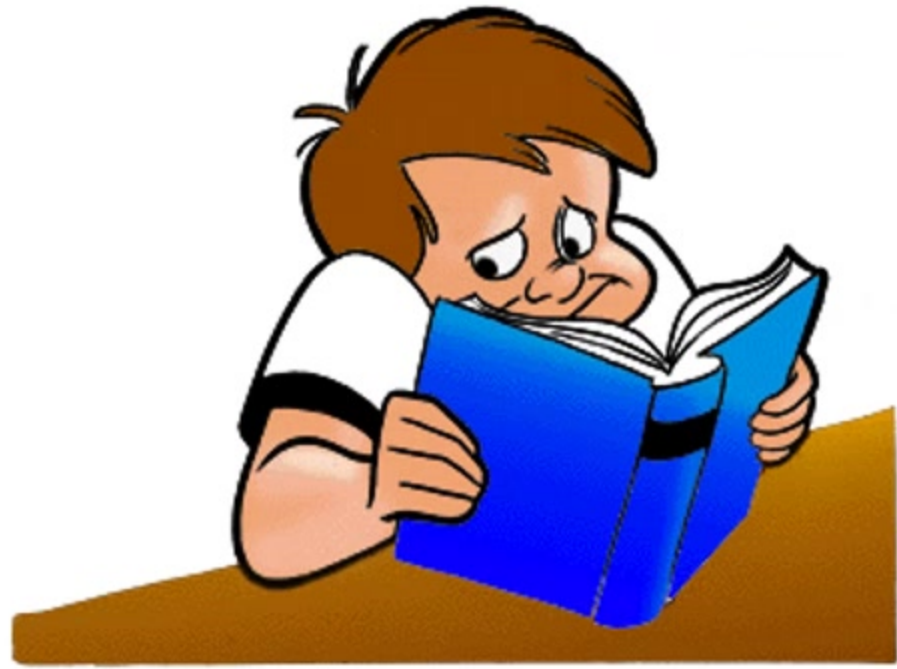
Figure 1.11.1: Indigenous Australians who needed to go to a dentist in the last 12 months but did not, by reason, 2018–19



Australian Institute of Health and Welfare & National Indigenous Australians Agency (2023) [Measure 1.11 Oral health, Aboriginal and Torres Strait Islander Health Performance Framework website](#), AIHW, Australian Government, accessed 28 July 2024.

Jamieson, L., Do, L., Kapellas, K., Chrisopoulos, S., Luzzi, L., Brennan, D., Ju, X. (2021) Oral health changes among Indigenous and non-Indigenous Australians: findings from two national oral health surveys. *Aust Dent J.* <https://doi.org/10.1111/adj.12849>

Lets revise..



1. Concept of burden of disease
2. Need to identify priority populations.
3. Burden of disease among
 - Socioeconomic disadvantaged groups
 - Aboriginal and Torres Strait Islanders

