

# Social Health Atlas of Australia

Notes on the data

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### Geographical structures

For information regarding the geographies available, refer to the [geographical structures](#) information.

### Statistical information

Except where otherwise stated, all age-standardised rates and ratios presented in the maps, data or graphs are indirectly standardised rates, based on the Australian standard. For further information on the statistics presented, refer to the [statistical information](#) available from the PHIDU website.

### Modelled estimates

In the absence of data from administrative data sets, estimates were produced for selected health risk factors from the 2017-18 National Health Survey (NHS), 2014-15 National Health Survey (NHS), and the 2014 General Social Survey (GSS), conducted by the Australian Bureau of Statistics (ABS). Further details on the production of these estimates (referred to as modelled estimates) and caveats, follow.

**Users of these modelled estimates should note that they do not represent data collected in administrative or other data sets. As such, they should be used with caution, and treated as indicative of the likely social dimensions present in an area with these demographic and socioeconomic characteristics.**

The numbers are estimates for an area, not measured events as are, for example, death statistics. As such, they should be viewed as a tool that, when used in conjunction with local area knowledge and taking into consideration the prediction reliability, can provide useful information that can assist with decision making for small geographic regions. Of particular note is that the true value of the published estimates is also likely to vary within a range of values as shown by the upper and lower limits published in the data (xls) and viewable in the bar chart in the single map atlases.

What the modelled estimates do achieve, however, is to summarise the various demographic, socioeconomic and administrative information available for an area in a way that indicates the expected level of each health indicator for an area with those characteristics. In the absence of accurate, localised information about the health indicator, such predictions can usefully contribute to policy and program development, service planning and other decision-making processes that require an indication of the geographic distribution of the health indicator.

The response rate of around 85% provides a high level of coverage across the population; however, the response rate among some groups is lower than among other groups, e.g., those living in the most disadvantaged areas have a lower response rate than those living in less disadvantaged areas. Although the sample includes the majority of people living in households in private dwellings, it excludes those living in the most remote areas of Australia; whereas these areas comprise less than 3% of the total population, Aboriginal people comprise up to one third of the population in these areas. This and other limitations of the method mean that estimates have not been published for PHAs with populations under 1,000, or with a high proportion of their population in:

- 1) non-private dwellings (hospitals, gaols, nursing homes - and also excludes members of the armed forces);
- 2) in Very Remote areas;
- 3) in discrete Aboriginal communities; and
- 4) where the relative root mean square errors (RRMSEs) on the estimates was 1 or more (estimate replaced with ≠)

NB: Estimates with RRMSEs from 0.25 and to 0.50 have been marked (–) to indicate that they should be used with caution; and those greater than 0.50 but less than 1 are marked (––) to indicate that the estimate is considered too unreliable for general use.

For the Primary Health Network (PHN) data, differences between the PHN totals and the sum of LGAs within PHNs result from the use of different concordances.

Source: Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2017-18 National Health Survey/ 2014-15 National Health Survey / 2011-12 Australian Health Survey/ 2014 General Social Survey, ABS Survey TableBuilder.

## Notes on the Data: Indicators and Data sources

### Introductory information

The geographical structure acronyms are defined as follows:

**'PHAs' - Population Health Areas, 'LGAs' - Local Government Areas, 'PHNs' - Primary Health Networks, 'Quintiles' - Quintiles of Socioeconomic Disadvantage of Area; 'Remoteness' - Remoteness Areas of Australia; and 'GCCSA' - Greater Capital Cities Statistical Areas**

The indicator information and data sources are presented below in the general order used by PHIDU in their products by the themes of [Demographic and social indicators](#), [Health status, disability and deaths](#) and [Use and provision of health and welfare services](#).

## Demographic and social indicators

### Age distribution, various years

Note: Two measures are presented for the age distribution of the total population. One is for the estimated resident population, based on the 2016 Census and other data, and applies to the whole population. The other is the usual resident population, as produced from the 2016 Census, and applies to the Aboriginal and Torres Strait Islander population and the population by Indigenous status, as the Aboriginal population is not available by age for Statistical Areas Level 2 that is the basis for the Population Health Areas mapped in this atlas.

### Estimated Resident Population, 2020

Male/female/total estimated resident population by 5-year age groups: 0-4 years to 85+ years and broad age groups: 0-14, 15-24, 25-44, 45-64, 65+, 70+, 75+, 85+ years, 2020  
– by PHA, LGA, PHN, Remoteness (broad age groups only)

**Indicator detail:** The data presented are the age and sex group total as a percentage of the total male/female/total population, as appropriate.

**Source:** Compiled by PHIDU based on ABS 3235.0 Population by Age and Sex, Regions of Australia, 30 June 2020.

### Aboriginal estimated resident population, 2016

Male/female/total estimated resident population by 5-year age groups: 0-4 years to 65+ years or broad age groups: 0-14, 15-24, 25-44, 45-64, 65+ years, 2016  
– by PHA, LGA, PHN, Remoteness (broad age groups only)

**Indicator detail:** The data presented are the age and sex group total as a percentage of the total Aboriginal male/female/total population, as appropriate.

**Source:** Modelled by PHIDU based on SA2, IARE and IREG ERP and the ABS Census of Population and Housing, August 2016.

### Indigenous status, 2016

Aboriginal population as a percentage of the total estimated resident population (ERP), 2016  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are the Aboriginal population as a percentage of the total population.

**Source:** Compiled by PHIDU based on the ABS Estimates of Aboriginal and Torres Strait Islander Australians, June 2016.

Aboriginal population as a percentage of the total usual resident population by 5-year age groups: 0-4 years to 65+ years, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are the Aboriginal population as a percentage of the total population within each age group.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Population projections, 2020, 2025 and 2030

Male/female/total projected population by 5-year age groups: 0-14, 15-24, 25-44, 45-64, 65+, 70+, 75+, 85+ years, 2020  
– by PHA, LGA, PHN, Remoteness

**Indicator detail:** The data presented are the age and sex group total as a percentage of the total male/female/total population, as appropriate.

**Source:** These data are based on customised projections prepared for the Australian Government Department of Health by the Australian Bureau of Statistics and originally published by the Australian Institute of Health and Welfare: as they were based on data and trends available before the impact on the population of COVID-19, users should use their judgement in deciding the extent that they remain relevant. PHA data were compiled by PHIDU based on these customised projections for 2020, 2025, and 2030.

### Birthplace & non-English speaking residents, 2016

Australian-born population, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

People born (overseas) in predominantly English speaking countries, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

## People born in predominantly non-English speaking (NES) countries, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

## People born in NES countries resident in Australia for five years or more, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

## People born in NES countries resident in Australia for less than five years, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The following countries are designated as ‘predominantly ES’: Canada, Ireland, New Zealand, South Africa, United Kingdom and the United States of America; the remaining countries are designated as ‘predominantly NES’.

*Resident in Australia for five years or more:* Data comprise NES residents arriving before 2012.

*Resident in Australia for less than five years:* Data comprise NES residents arriving from 2012 to 2016. The year 2016 is the period 1 January 2016 to 9 August 2016 (Census Night), therefore, the data presented represent a total time of approximately 4 years and 7 months.

The data exclude the 5.6% of the population who did not state their country of birth. In addition, the ‘*Resident in Australia for five years or more/ less than five years*’ data exclude the 4.5% of people born overseas who did not state their year of arrival. The proportions excluded were calculated based on the Australian data.

## People aged 5 years and over who were born overseas and reported poor proficiency in English, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise people born overseas who reported speaking English ‘not well’ or ‘not at all’.

The numerator excludes the 0.8% of the population aged five years and over born overseas who did not state their language (other than English) spoken, or their proficiency in English: however, these records are included in the denominator.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Non-English speaking countries of birth, 2016

### Top ten birthplaces of people born in non-English speaking countries, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise residents of Australia who were born overseas in one of the predominantly non-English speaking countries which are in the top ten for Australia in terms of high numbers of migrants. These are, from highest to lowest: China (excluding Special Administrative Regions of Hong Kong & Macau, and Taiwan), India, Philippines, Vietnam, Italy, Malaysia, Sri Lanka, Germany, Korea, Republic of (South), and Greece.

The numerator excludes the 6.9% of the population who did not state their country of birth: however, these records are included in the denominator.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Migration program and humanitarian program, 2016

### Humanitarian Program, 2016

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data comprise residents of Australia who arrived under the Humanitarian Program between 2000 and 9<sup>th</sup> August 2016; 2000 and 2006; 2007 and 2011; 2012 and 9<sup>th</sup> August 2016.

**Source:** Compiled by PHIDU based on the ABS Census and Migrants Integrated Dataset, August 2016.

### Family stream, 2016

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data comprise residents of Australia who arrived under the family stream of the Migration Program between 2000 and 9<sup>th</sup> August 2016; 2000 and 2006; 2007 and 2011; 2012 and 9<sup>th</sup> August 2016. The family stream is designed for the migration of immediate family members of Australian citizens, permanent residents or New Zealand citizens.

**Source:** Compiled by PHIDU based on the ABS Census and Migrants Integrated Dataset, August 2016.

### Skill stream, 2016

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data comprise residents of Australia who arrived under the skill stream of the Migration Program between 2000 and 9<sup>th</sup> August 2016; 2000 and 2006; 2007 and 2011; 2012 and 9<sup>th</sup> August 2016. This includes both primary and secondary applicants (i.e. dependents of the primary applicant).

**Source:** Compiled by PHIDU based on the ABS Census and Migrants Integrated Dataset, August 2016.



## Total fertility rate, 2019

### Total fertility rate, 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Total fertility rates are not shown for areas recording fewer than 5 births.

**Source:** Compiled by PHIDU based on the ABS data: [Births, Australia 2012 to 2019](#).

## Education, various years

### Children aged 4 years old, 5 years old, and 4 and 5 years old enrolled in a preschool program, 2020

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise children aged 4 years old, 5 years old, and 4 and 5 years old enrolled in and attending a preschool program.

**Note:** These data are generally not published as percentages, as the age at which children commence preschool and leave preschool to enter primary school varies between jurisdictions and includes children at age three and age six. Calculating the percentage of children at age four in preschool against the percentage of children in the population at this age results in some proportions of over 100%. This also occurs with those aged five. However, in order to provide an understanding of variations between geographic areas, we have calculated percentages. More information can be found at

<https://www.abs.gov.au/statistics/people/education/preschool-education-australia/latest-release>

accessed 15 September 2021.

Care should be taken when interpreting preschool enrolments. Due to the COVID-19 pandemic, various restrictions were in place when the National Early Childhood Education and Care Collection (NECECC) was conducted. Due to the temporary closure of preschool program providers in Victoria, attendance data for Victoria are not published.

**Source:** Compiled by PHIDU based on the ABS Preschool Education, Australia, 2020; data extracted from Survey TableBuilder.

### People who left school at Year 10 or below, or did not go to school, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise people who left school at Year 10 or below, or did not go to school, expressed as an indirectly standardised rate per 100 people aged 15 years and over (usual resident population), based on the Australian standard.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Full-time participation in secondary school education at age 16, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** As data covering all sectors (government, non-government, Catholic and independent) are not available at the small area level from State and Territory education authorities, the data used in this analysis are from the 2016 ABS Population Census. As such they are not official estimates of participation at age 16 in full-time secondary education. However, they are useful in showing the extent of variations between areas, by socioeconomic status and by remoteness.

The numerator excludes 5.0% of the population aged 16 whose participation in secondary school education, or full-time/part-time status, was not stated: however, these records are included in the denominator. Secondary school comprises either Government, Catholic, or other Non-Government schools.

Percentages may be more than 100% due to the ABS' randomisation of both the numerator and denominator for confidentiality purposes.

Note that the extent to which those who have left school at this age to enter the labour force is not accounted for in these data - see *Learning or Earning at ages 15 to 19*.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Participation in vocational education and training, 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Vocational education and training (VET) data include all VET activity delivered in Australia to Australian residents by government providers (TAFE institutes, Universities and other government providers), community education providers, enterprise providers, private training providers and schools.

Duplicate records arising from students attending multiple training providers within the data collection period have been removed from the 2019 data set.

#### Details of data presented

Separate data are presented for:

- Aboriginal population participation in VET
- Non-Indigenous population participation in VET
- Total population participation in VET

The difference between the total population figures and the sum of Aboriginal and non-Indigenous figures arises from unknown Indigenous status and data compilation issues.

**Aboriginal and non-Indigenous population source:** Compiled by PHIDU based on data from the National Centre for Vocational Education Research Ltd., 2019; and the ABS Usual Resident Population, 30 June 2016.

**Total population source:** Compiled by PHIDU based on data from the National Centre for Vocational Education Research Ltd., 2019; and the ABS Usual Resident Population, 30 June 2016.

## Load Pass Rates of vocational education and training subjects, 2019

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Vocational education and training (VET) data include all VET activity delivered in Australia to Australian residents by government providers (TAFE institutes, Universities and other government providers), community education providers, enterprise providers, private training providers and schools.

#### Definitions

##### Load Pass Rate

The load pass rate (LPR) is the ratio of hours, or full-year training equivalents (FYTEs), attributed to students who gain competencies/passed assessment in an assessable module or unit of competency to all students who were assessed and either passed, failed or withdrew. The calculation is based on the annual hours (or FYTEs) for each assessable module or unit of competency and includes competencies achieved/units passed through recognition of prior learning (RPL).

The calculation for LPR is as follows:

Competency achieved passed + RPL granted, as a proportion of

Competency achieved passed + Competency not achieved failed + Withdrawn discontinued + RPL granted.

#### Details of data presented

Separate data are presented for:

- LPR of VET subjects, government-funded hours
- LPR of VET subjects, private-funded hours
- Aboriginal LPR of VET subjects
- Non-Indigenous LPR of VET subjects
- Total LPR of VET subjects

The difference between the total population figures and the sum of Aboriginal and non-Indigenous figures arises from unknown Indigenous status and data compilation issues.

**Source:** Compiled by PHIDU based on data from the National Centre for Vocational Education Research Ltd., 2019.

## School leavers enrolled in higher education, 2019

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise school leavers who were identified as enrolled at an Australian university at 31 March 2019. 'School leavers' are students who attained an Australian Year 12 qualification in 2018 in any State/Territory through the completion of one or more Year 12 courses; may include (unless noted otherwise below) adult students, part time students and students doing one or more subjects to improve their overall score (repeating students).

The Estimated Resident Population is the population aged of 17 years in 2019, as this is the age of the majority of Year 12 students at 30 June 2019. As age data at the small geographical area level are not available by single years, the number at age 17 was estimated from the number in the five-year age group 15 to 19 years.

Data have been provided by individual State and Territory tertiary admission centres. As these data were collected from each State and Territory, they may exclude people who live in one State/Territory and were enrolled in another.

#### Variations in data between States:

Definitions vary across the States; however, the impact of any differences is considered to be small.

- South Australian data represent the number of school leavers that have received and accepted an offer to a university in South Australia and the Northern Territory; however, this is not necessarily indicative of the enrolment status as they may not have enrolled at the institution by 31 March 2019.
- Data for 2019 tertiary enrolments in Victoria are not available.

For more information, please consult the relevant admissions centre as listed in the **Source** below.

**Source:** Compiled by PHIDU based on data from the:

1) Universities Admissions Centre (NSW & ACT), South Australian Tertiary Admission Centre (SA & NT), Tertiary Institutions Service Centre (WA), The University of Notre Dame Australia (WA & NSW), and the University of Tasmania.; and

2) ABS Estimated Resident Population, 30 June 2019.

## Early childhood development: Australian Early Development Census, 2018

Developmentally vulnerable on one or more domains, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Developmentally vulnerable on two or more domains, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Physical health and wellbeing domain - developmentally vulnerable/ at risk/ on track, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Social competence domain - developmentally vulnerable/ at risk/ on track, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Emotional maturity domain - developmentally vulnerable/ at risk/ on track, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Language and cognitive (school-based) domain - developmentally vulnerable/ at risk/ on track, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Communication skills and general knowledge domain - developmentally vulnerable/ at risk/ on track, 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The AEDC results report on the number of children scoring in the following percentile ranges: 0 to 10th percentile (developmentally vulnerable), 11th to 25th percentile (developmentally at risk) and above the 25th percentile (developmentally on track).

The PHIDU data is presented for children who were:

- Developmentally vulnerable (0 to 10th percentile) on one or more domains
- Developmentally vulnerable (0 to 10th percentile) on two or more domains

and who were assessed as being developmentally vulnerable (0 to 10th percentile), at risk (11th to 25th percentile), and on track (above the 25th percentile) in the following domains:

- Physical health and wellbeing domain
- Social competence domain
- Emotional maturity domain
- Language and cognitive skills (school-based) domain
- Communication skills and general knowledge domain

Data for Local Government Areas and Statistical Areas Level 3 were downloaded from the AEDC website <https://www.aedc.gov.au/>.

Data for all other geographical areas were provided by the Social Research Centre, who host and manage the AEDC website on behalf of the Australian Government Department of Education, Skills and Employment.

The following suppression rules have been applied to the data to preserve confidentiality:

AEDC data are not reported for locations in which three or fewer children had been assessed;

Suppression of AEDC data also occurs when one or more of the following have not been met:

- less than fifteen children had valid AEDC scores;
- less than two teachers had completed the AEDC instrument for children in that location;
- the AEDC instrument was completed for less than 80% of all non special needs children; or
- the number of vulnerable or at risk children represented at least 90% of valid AEDC scores.

Additional minor suppressions have occurred where necessary to preserve confidentiality of related suppressed cells (consequential suppression).

**Source:** Compiled by PHIDU based on data from the 2018 Australian Early Development Census (an Australian Government Initiative).

## Learning or Earning, 2016

Learning or Earning at ages 15 to 24, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise the number of 15 to 24 year old people who were engaged in school, work or further education/ training, expressed as a proportion of all those aged 15 to 24 years. Note that the data published by PHIDU for this indicator from the 2011 Census was for the 15 to 19 year age group.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Families, 2016

### Single parent families with children aged less than 15 years, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Single parent families with children under 15 years, as a proportion of all families with children under 15.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Jobless families with children aged less than 15 years, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Families with children under 15 years in which no parent is employed, as a proportion of all families with children under 15.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Children aged less than 15 years in jobless families, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Children aged under 15 years in families in which no parent is employed, as a proportion of all children under 15.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016 (unpublished) data.

### Children in families where the mother has low educational attainment, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are of children aged less than 15 years living in families where the female parent's highest level of schooling was year 10 or below, or where the female parent did not attend school, expressed as a proportion of all children aged less than 15 years.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016 (unpublished) data.

## Child care: unpaid, 2016

### Child care to own child/children (unpaid), provided by people aged 15 years and over, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Child care to other child/children (unpaid), provided by people aged 15 years and over, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Total (unpaid) child care, provided by people aged 15 years and over, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data include unpaid child care provided by people aged 15 years and over who, in the two weeks prior to Census Night, spent time caring for a child/children (under 15 years).

The indicators presented are:

- Unpaid child care provided by people aged 15 years and over to their own child/ children (aged under 15 years)
- Unpaid child care provided by people aged 15 years and over to other child/ children (aged under 15 years); and
- Total (unpaid) child care provided by people aged 15 years and over – this includes the categories of people caring for a) their own child/ children only; b) other child/ children only; and c) both their own child/ children and other/ children combined (the data for this final group c) are not shown separately) (children aged under 15 years).

The data exclude the 7.8% of people aged 15 years and over whose engagement in unpaid child care was not stated (the proportion excluded was calculated based on the Australian data).

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Housing, rent assistance and vehicle access, various years

### Persons living in crowded dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Persons living in private dwellings assessed as crowded according to the Canadian National Occupancy Standard. The measure assesses the bedroom requirements of a household, accounting for both household size and composition, specifying that:

- there should be no more than two persons per bedroom;
- children less than five years of age of different sexes may reasonably share a bedroom;
- children less than 18 years of age and of the same sex may reasonably share a bedroom;
- single household members 18 years and over should have a separate bedroom, as should parents or couples; and

- a lone person household may reasonably occupy a bed-sitter.

A private dwelling can be a house, flat or even a room. It can also be a caravan, houseboat, tent or a house attached to an office or rooms above a shop.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Persons living in severely crowded dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Persons living in private dwellings assessed as needing four or more additional bedrooms to accommodate all persons currently living in the household, according to the Canadian National Occupancy Standard (see Persons living in crowded dwellings above).

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Aboriginal persons living in crowded dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Aboriginal persons living in private dwellings assessed as crowded according to the Canadian National Occupancy Standard. The measure assesses the bedroom requirements of a household, accounting for both household size and composition, specifying that:

- there should be no more than two persons per bedroom;
- children less than five years of age of different sexes may reasonably share a bedroom;
- children less than 18 years of age and of the same sex may reasonably share a bedroom;
- single household members 18 years and over should have a separate bedroom, as should parents or couples; and
- a lone person household may reasonably occupy a bed-sitter.

A private dwelling can be a house, flat or even a room. It can also be a caravan, houseboat, tent or a house attached to an office or rooms above a shop

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Aboriginal persons living in severely crowded dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Aboriginal persons living in private dwellings assessed as needing four or more additional bedrooms to accommodate all persons currently living in the household, according to the Canadian National Occupancy Standard (see Aboriginal persons living in crowded dwellings above).

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Private dwellings with households requiring one or more extra bedrooms (housing suitability), 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The criteria used to derive the variable are based on the Canadian National Occupancy Standard for housing appropriateness and are sensitive to both household size and composition. The measure assesses the bedroom requirements of a household by specifying that:

- there should be no more than two persons per bedroom;
- children less than five years of age of different sexes may reasonably share a bedroom;
- children less than 18 years of age and of the same sex may reasonably share a bedroom;
- single household members 18 years and over should have a separate bedroom, as should parents or couples; and
- a lone person household may reasonably occupy a bed-sitter.

The numerator excludes the 6.0% of dwellings for which the indicator could not be calculated, or was not stated: however, these records are included in the denominator.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Households in dwellings receiving rent assistance from the Australian Government, June 2021

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The Australian Government rent assistance data are provided for individual recipients, and there may be multiple individual recipients in a household: to the extent that this occurs, the proportion will be understated. However, dwellings are the most appropriate denominator available for this dataset. In addition, some recipients live in non-private dwellings, which are not included in the denominator: to the extent that this occurs, the proportion will be overstated.

**Source:** Compiled by PHIDU based on data from the Department of Social Services, June 2021; and the Australian Bureaus of Statistics Census: Dwellings, 2016.



## Aboriginal households in dwellings receiving rent assistance from the Australian Government, June 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The rent assistance data are based on income unit receiving Commonwealth Rent Assistance with Indigenous identifier. An income unit comprises a single person (with or without dependent children) or a couple (with or without dependent children). Single social security recipients living together in the same household are regarded as separate income units. An income unit is classified as Indigenous if at least one partner in the unit has indicated to Centrelink that he/she identifies as an Aboriginal or Torres Strait Islander. It is optional for individuals to identify as Indigenous. These data may therefore represent an undercount. However, dwellings are the most appropriate denominator available for this dataset. In addition, some recipients live in non-private dwellings, which are not included in the Denominator: to the extent that this occurs, the proportion will be overstated. Note: The denominator - private dwellings - is based on the 2016 Census.

**Source:** Compiled by PHIDU based on data from the Department of Social Services, June 2016; and the ABS Census: Dwellings, 2016.

## Persons living in rented social housing dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Social housing (rented) dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Social housing is defined as occupied private dwellings rented from the government housing authority, a housing co-operative, community or a church group. The data include households in private dwellings only. A private dwelling can be a house, flat or even a room. It can also be a caravan, houseboat, tent or a house attached to an office or rooms above a shop. The numerator excludes 2.7% of dwellings or 2.2% of persons for which tenure type was not stated: however, these records are included in the denominator.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Persons living in privately rented dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Privately rented dwellings, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data include households in private dwellings only. A private dwelling can be a house, flat or even a room. It can also be a caravan, houseboat, tent or a house attached to an office or rooms above a shop. The numerator excludes 2.7% of dwellings or 2.2% of persons for which tenure type was not stated: however, these records are included in the denominator.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Low income households with mortgage stress, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise households in the bottom 40% of income distribution (those with less than 80% of median equivalised income), spending more than 30% of income on mortgage repayments, as a proportion of mortgaged private dwellings.

Income is equivalised; equivalised household income per week can be viewed as an indicator of the economic resources available to a standardised household. For a lone person household, it is equal to household income. For a household comprising more than one person, it is an indicator of the household income that would be needed by a lone person household to enjoy the same level of economic wellbeing.

Income varies by State/ Territory: NSW, \$721; Vic, \$705; Qld, \$704; SA, \$631; WA, \$785; Tas, \$589; NT, \$1,004; ACT, \$1,093.

The data exclude the population in the 10.3% of private dwellings for which mortgage stress data was not recorded (the proportion excluded was calculated based on the Australian data).

**Note:** For additional information regarding equivalised income see

<http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/2901.0Chapter31502016>

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016 (unpublished) data.

## Low income households with rental stress, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise households in the bottom 40% of the income distribution (those with less than 80% of median equivalised income), spending more than 30% of their income on rent, as a proportion of rented private dwellings.

Income is equivalised; equivalised household income per week can be viewed as an indicator of the economic resources available to a standardised household. For a lone person household, it is equal to household income. For a household comprising more than one person, it is an indicator of the household income that would be needed by a lone person household to enjoy the same level of economic wellbeing.

Income varies by State/ Territory: NSW, \$721; Vic, \$705; Qld, \$704; SA, \$631; WA, \$785; Tas, \$589; NT, \$1,004; ACT, \$1,093.

The data exclude the population in the 8.9% of private dwellings for which rental stress data was not recorded (the proportion excluded was calculated based on the Australian data).

**Note:** For additional information regarding equivalised income see

<http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/2901.0Chapter31502016>

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016 (unpublished) data.

## Low income households under financial stress from mortgage or rent, 2016

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise households in the bottom 40% of the income distribution (those with less than 80% of median equivalised income), spending more than 30% of their income on rent mortgage repayments or rent, as a proportion of low-income households (those with less than 80% of median equivalised income).

Refer to the notes on the above two indicators for the specific income levels and other information.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016 (unpublished) data

## Low income households, 2016

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise low income households (as defined above) as a proportion of all households.

Refer to the notes above for the specific income levels and other information.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016 (unpublished) data

## Private dwellings with no motor vehicle, 2016

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data exclude the population in the 3.0% of dwellings for which the number of motor vehicles was not stated (the proportion excluded was calculated based on the Australian data).

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Income support recipients, June 2020 and June 2021

### Age pensioners, June 2021

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Age Pension is a support payment for people who have reached the qualifying age. From 1 July 2013, the qualifying age for both men and women is 65 years. From 1 July 2017 the Age Pension qualifying age will progressively increase from 65 years to 67 years, reaching 67 years in 2023. This affects both men and women born on or after 1 July 1952. To qualify for the Age Pension, a person must have been an Australian permanent resident for a total of 10 years with at least five of those years being continuous, or have a qualifying residence exemption, or satisfy the residence requirements under an international social security agreement.

*Additional notes:*

The data show a number of areas as having proportions in excess of 100%: these are clearly not accurate. The reason for this is not clear, although it may be the result of the address of the pension recipient data being a postcode which is not allocated to the correct small geographical area by the correspondence files available; it may also reflect inaccuracies in the denominator (the population of pensionable age), as population estimates at the small area level for age groups can be unreliable, in particular where the populations are small. It also indicates that it is possible that percentages of less than 100% may also be overstated.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

### Age pensioners – Department of Veterans' Affairs, June 2020

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The Department of Veterans' Affairs (DVA) provides a Service Pension (Age) to eligible people who have reached 60 years.

*Additional notes:*

Data were converted from SA2 level data by the DVA and provided to PHIDU for all published geographies. LGA data was provided on 2020 boundaries by the DVA and converted to 2016 boundaries by PHIDU. For privacy reasons figures of 1 to 3 provided by DVA may not be the exact count for that region, and hence have been

suppressed (confidentialised) by PHIDU. In some cases, values of 4 or more may have been increased/decreased by one or two so that the totals remain consistent.

**Source:** Compiled by PHIDU based on data from the Department of Veterans' Affairs, June 2020; and PHIDU estimated population, 30 June 2020.

## Disability support pensioners, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** People eligible for a Disability Support Pension (DSP), paid by Centrelink must be aged 16 years or over and have not reached age-pensionable age; be permanently blind or have a physical, intellectual or psychiatric impairment level of 20% or more and a continuing inability to work for at least 15 hours per week.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the Department of Social Services Payment Demographic Data, June 2020, available from <https://data.gov.au/dataset/ds-dga-cff2ae8a-55e4-47db-a66d-e177fe0ac6a0/details>; accessed November 2020; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## Female sole parent pensioners, June 2020

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** People eligible for a Parenting Payment (single) paid by Centrelink comprise female and male sole parents with at least one child under 16 years of age (who meet certain qualifications, or whose child attracts a child disability allowance). Only females receiving this payment have been mapped because females comprise the majority of sole parent pensioners (and to map females and males over the total population would distract from the figures for females receiving this payment).

Data cells with counts of less than five were suppressed (confidentialised). Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA or LGA data to the State/Territory totals and include the sum of these suppressed cells.

**Source:** Compiled by PHIDU based on data from the Department of Social Services, June 2020; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## People receiving an unemployment benefit, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** People receiving an 'unemployment benefit' - which includes the JobSeeker Payment or Youth Allowance (other)<sup>1</sup> paid by Centrelink - are shown as a proportion of the eligible population (of persons aged 16 to 21 years for the Youth Allowance (other), 22 to 64 years for the JobSeeker Payment).

For total unemployment, this is the sum of Youth Allowance (other) and JobSeeker Payment as a proportion of the population aged 15 to 64 years.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

In addition, where two indicators are added together to produce total unemployment, the sum of JobSeeker Payment and Youth Allowance (other), if one has been suppressed, this could also result in an undercount.

**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## JobSeeker unemployment beneficiaries, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** People receiving a JobSeeker Payment paid by Centrelink are shown as a proportion of the population aged 22 to 64 years.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).



**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## Young people aged 16 to 21 receiving an unemployment benefit, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** People receiving an 'unemployment benefit' those receiving the Youth Allowance (other)<sup>1</sup> paid by Centrelink - are shown as proportion of the population aged 16 to 21 years.

Data cells with counts of less than five were suppressed (confidentialised). Therefore, the figures can be undercounted by up to 4 people if one of the cells at the SA2 level comprising a Population Health Area (PHA) or Local Government Area (LGA) is confidentialised. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA or LGA data to the State/Territory totals and include the sum of these suppressed cells.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## People receiving an unemployment benefit short-term and long-term, June 2020

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** People receiving an 'unemployment benefit' – which includes the Newstart Allowance or Youth Allowance (other) paid by Centrelink – for more less than 183 days and more than 183 days (approximately 6 months) are shown as the proportion of the eligible population (of people aged 16 to 64 years).

**Source:** Compiled by PHIDU based on data from the Department of Social Services, June 2020; and the Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## Low income, welfare-dependent families (with children), June 2020

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

## Children in low income, welfare-dependent families, June 2020

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Families included are those with children under 16 years of age, with the household head not in the workforce, and with incomes under \$28,485 p.a. in receipt of the Family Tax Benefit (A) (whether receiving income support payments or not). These families would all receive the Family Tax Benefit (A) at the maximum level. The level of income used for these data was based on [Poverty Lines: Australia, June Quarter 2020](#), which contains a weekly income for a single parent with two children, including housing costs. Poverty Lines: Australia is a quarterly newsletter that updates the Henderson Poverty Line as defined in the 1973 Commonwealth Commission of Inquiry into Poverty. Poverty lines are presented for a range of family sizes, in order to avoid the situation of poverty. The updated Poverty Lines takes account of changes in the average income level of all Australians, reflecting the idea that poverty is relative.

Data cells with less than 5 counts were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the Department of Social Services, June 2020; Australian Bureau of Statistics (ABS) Census of Population and Housing, August 2016 (families), and ABS Estimated Resident Population 30 June 2020 (children).

## Health Care Card holders, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The Health Care Card is automatically issued to people who are not qualified for a Pensioner Concession Card, and are receiving:

- JobSeeker Payment, Partner Allowance, Sickness Allowance, Widow Allowance, Youth Allowance, Austudy, ABSTUDY Living Allowance, Mobility Allowance, Special Benefit, or Parenting Payment (partnered);
- Carer Allowance (child);
- Carer Payment (child) on a short-term or episodic basis;
- Exceptional Circumstances Relief Payment, Farm Household Allowance, Family Tax Benefit Part A (by fortnightly instalments and whose family income is below the Family Tax Benefit Part A lower income free area).

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## Pensioner Concession Card holders, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** You can get a Pensioner Concession Card if you receive any of the following payments:

- Age Pension
- Carer Payment
- Disability Support Pension
- JobSeeker Payment or Youth Allowance and are single, caring for a dependent child and looking for work
- Parenting Payment single.

The data excludes details of Commonwealth Seniors Health Card holders.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020

## Seniors Health Card holders, June 2021

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The Seniors Health Card gives older Australians access to cheaper prescription medicines, Australian government funded medical services, and other government concessions. People eligible for a Seniors Health Card must have reached Age Pension age but do not qualify for a payment from Centrelink or the Department of Veterans' Affairs.

The data excludes details of Pensioner Concession Card holders.

Population Health Area (PHA) data were derived from already suppressed Statistical Area Level 2 (SA2) data. Therefore, if a PHA includes an SA2 with suppressed data, there could be an undercount of up to 4 people in the PHA.

State and territory totals were also provided in the source data. Data in the 'Unknown' data row in the Excel data workbooks are calculated from the difference between the sum of the PHA data and the State/Territory totals and include the sum of these suppressed SA2 cells.

Data cells with counts of less than five were suppressed (confidentialised).

**Source:** Compiled by PHIDU based on data from the DSS Payment Demographic Data, June 2021, available from <https://data.gov.au/data/dataset/dss-payment-demographic-data>; accessed August 2021; and Australian Bureau of Statistics Estimated Resident Population, 30 June 2020.

## Internet access at home, 2016

### Private dwellings with no Internet connection, 2016

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Total private dwellings with an Internet connection, 2016

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

- Private dwellings with a Broadband Internet connection, 2016  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness
- Private dwellings with a Dial-up Internet connection, 2016  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness
- Private dwellings with an 'other' Internet connection, 2016  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness
- Children aged less than 15 years living in dwellings from which Internet was not accessed, 2016  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data include Internet access at private dwellings only; the data for the population in the 3.5% of dwellings for which Internet access was not stated are excluded (the proportion excluded was calculated based on the Australian data).

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Labour force, various years

### Unemployment, March 2019

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Notes:** These estimates, from the *Small Area Labour Markets - Australia* data series, are based on the Structure Preserving Estimation (SPREE) methodology which enables the generation of small area unemployment, unemployment rate and labour force estimates. They differ from the figures both for people receiving an unemployment benefit (as different rules are applied to eligibility for a welfare payment) and being considered as unemployed in the official labour force statistics produced by the Australian Bureau of Statistics (ABS). The unemployment estimates presented are based on the 'smoothed' data series, where the data have been averaged over four quarters to minimise the variability inherent in small areas estimates. The estimates presented are derived from two primary data sources:

1. Current recipients of Youth Allowance (other) and current recipients of Newstart Allowance who are not on a zero rate of payment, by SA2; and
2. ABS Labour Force Survey data by ABS Statistical Area Level 4 (SA4). The ABS Labour Force Survey samples private and non-private dwellings (approximately 26,000 households) across Australia and covers about 0.32 per cent of the population. More details about the methodology underpinning this survey are included in the ABS publication, *Labour Force, Australia* (cat. no. 6202.0).

A population-weighted correspondence file was used to convert these data provided on the Australian Bureau of Statistics (ABS) 2011 Australian Standard Geographical Classification (ASGC) to the ABS 2016 Australian Statistical Geography Standard (ASGS) on which the data are published.

#### *Additional notes*

1. Youth Allowance (other) is largely comprised of unemployed people aged 16 to 21 looking for full-time work or undertaking approved activities, such as part-time study or training. This excludes Youth Allowance recipients who are full-time students or undertaking an apprenticeship/ traineeship.
2. The Department notes with respect to these estimates: While the underlying methodology used to produce the small area estimates in SALM is robust for the vast majority of areas, in a small number of cases it can result in figures that do not accurately reflect labour market conditions within the region. As this is the case for the SA2 and LGA of Aurukun, these figures are not published.

**Source:** Compiled by PHIDU based on the *Small Area Labour Markets - Australia*, Department of Employment, Skills, Small and Family Business, March Quarter 2019.

### Labour force participation, March 2019

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Notes:** These estimates, from the *Small Area Labour Markets - Australia* data series, are based on the Structure Preserving Estimation (SPREE) methodology which enables the generation of small area unemployment, unemployment rate and labour force estimates. They differ from the figures both for people receiving an unemployment benefit (as different rules are applied to eligibility for a welfare payment) and being considered as unemployed in the official labour force statistics produced by the Australian Bureau of Statistics (ABS). The labour force estimates presented are based on the 'smoothed' data series where the data have been averaged over four quarters to minimise the variability inherent in small area estimates. The estimates presented are derived from two primary data sources:

1. Australian Bureau of Statistics (ABS) Labour Force Survey data by Statistical Area Level 4; and
2. 2011 and 2016 Censuses of Population and Housing participation rate data at the SA2 level.

A population-weighted correspondence file was used to convert these data provided on the Australian Bureau of Statistics (ABS) 2011 Australian Standard Geographical Classification (ASGC) to the ABS 2016 Australian Statistical Geography Standard (ASGS) on which the data are published.

*Additional note:* The Department notes with respect to these estimates: While the underlying methodology used to produce the small area estimates in SALM is robust for the vast majority of areas, in a small number of cases it can result in figures that do not accurately reflect labour market conditions within the region. As this is the case for the SA2 and LGA of Aurukun, these figures are not published.

**Source:** Compiled by PHIDU based on the *Small Area Labour Markets - Australia*, Department of Employment, Skills, Small and Family Business, March Quarter 2019; and the ABS Estimated Resident Population, 30 June 2018.

### Female labour force participation, 2016

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** This indicator is based on data in the ABS Population Census. As it is based on self-reported information, and not subject to the criteria for labour force participation applied by the ABS in the Labour Force

Survey and used in the DoE estimates (above), it will not necessarily be consistent with the official estimates labour force participation published by the ABS.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

## Summary measure of disadvantage, 2016

### Index of Relative Socio-economic Disadvantage (IRSD), 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The Index has a base of 1000 for Australia: scores above 1000 indicate relative lack of disadvantage and those below 1000 indicate relatively greater disadvantage.

For further information see the information provided by the Australian Bureau of Statistics (ABS) at:

<http://www.abs.gov.au/websitedbs/censushome.nsf/home/seifa>

or download the ABS *Census of Population and Housing: Socio-Economic Indexes for Areas (SEIFA), Australia, 2011* (Cat. no. 2033.0.55.001) technical paper at: <http://www.abs.gov.au/ausstats/abs@.nsf/mf/2033.0.55.001>.

**Source:** Compiled by PHIDU based on ABS Socio-economic Indexes for Areas (SEIFA), 2016 data. Note: The LGA data were re-produced from the ABS originals. Data for other geographic levels were constructed using population weighted averages, based on the published ABS SA2 data.

## Community strengths, personal and financial stressors and barriers to accessing transport and healthcare services

### Community strengths, various years

#### ABS Census data, 2016

#### Voluntary work for an organisation or group - people aged 15 years and over, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The variable 'Voluntary work for an organisation or group' records people who spent time doing unpaid voluntary work through an organisation or group in the twelve months prior to Census night.

The numerator excludes the 8.2% of the population aged 15 years and over whose participation in voluntary work was not stated: however, these records are included in the denominator.

**Source:** Compiled by PHIDU based on the ABS Census of Population and Housing, August 2016.

### Modelled estimates

The GSS survey was conducted by personal interview and collected information about personal and household characteristics for people aged 15 years and over resident in private dwellings across Australia (excluding very remote and people living in discrete Aboriginal and Torres Strait Islander communities), from March to June 2014.

The main purpose of the survey was to provide an understanding of the multi-dimensional nature of relative advantage and disadvantage across the population, and to facilitate reporting on and monitoring of people's opportunities to participate fully in society. For further information on the survey see

<http://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/4159.02014?OpenDocument> .

Through the use of synthetic estimation techniques, it is possible to produce estimates from survey data at the small area level. Synthetic estimation predicts a value for an area with a small population based on modelled survey data and known characteristics of the area. These modelled estimates can be interpreted as the likely value for a 'typical' area with those characteristics. The model used for predicting small area data is determined by analysing data at a higher geographic level, in this case Australia. The relationship observed at the higher geographic level between the characteristic of interest and known characteristics is assumed to also hold at the small area level. The estimates are made by applying the model to data on the known characteristics that can be reliably estimated at the small area level. This modelling technique can be considered as a sophisticated prorating of Australian estimates to the small area level.

The ABS has used various methods to produce small area predictions from a number of surveys. The methods are described in the *Small Area Estimates Manual version 1.0* which was released in May 2006 and is available on the National Statistical Service website at:

<http://www.nss.gov.au/nss/home.NSF/pages/Small+Areas+Estimates?OpenDocument>

The published GSS data and these small area estimates differ in scope. The 2014 GSS covered people living in private dwellings in urban and rural areas and excluded people in very remote areas and people living in discrete Aboriginal and Torres Strait Islander communities. As such estimates were not produced for PHAs with more than 50% of their populations residing in Very Remote CDs. Due to the exclusion of people living in CDs in Very Remote areas of Australia, survey estimates for the majority of PHAs in the Northern Territory are unreliable.

**Note:** Estimates with RRMSEs from 0.25 and to 0.50 have been marked (~) to indicate that they should be used with caution; and those greater than 0.50 but less than 1 are marked (~~) to indicate that the prediction is considered too unreliable for general use.



Estimated number of people aged 18 years and over who did unpaid voluntary work in the last 12 months through an organisation (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who are able to get support in times of crisis from people outside the household (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over (or their partner) who provide support to other relatives living outside the household (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who disagree/strongly disagree with acceptance of other cultures (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who, in the past 12 months, felt that they had experienced discrimination or have been treated unfairly by others (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS from the 2014 General Social Survey; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2014 General Social Survey, ABS Survey TableBuilder.

### Personal and financial stressors (modelled estimates), 2014

Estimated number of people aged 18 years and over whose household could raise \$2,000 within a week (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who had government support as their main source of income in the last 2 years (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who had government support as their main source of income, for 13 months or more, within the past 24 months (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS from the 2014 General Social Survey; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2014 General Social Survey, ABS Survey TableBuilder.

### Barriers to accessing transport and healthcare services (modelled estimates), 2014

Estimated number of people aged 18 years and over who often have a difficulty or cannot get to places needed with transport, including housebound (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who experienced a barrier to accessing healthcare when needed it in the last 12 months, with main reason being cost of service (modelled estimates), 2014

– by PHA, LGA, PHN, Quintiles, Remoteness

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS from the 2014 General Social Survey; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2014 General Social Survey, ABS Survey TableBuilder.

## Health status, disease prevention, disability and deaths

### Mothers and babies, various years

#### Low birthweight babies, 2016 to 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise all babies (live born) weighing less than 2500 grams at birth, expressed as a proportion of all live births (data over 3 years).

Data are not shown for areas where there were fewer than 20 births.

Data published previously were collected from each State and Territory health agency and are likely to have excluded people who live in one State/Territory and used a service in another. This data release uses data, provided to the Australian Institute of Health and Welfare by each State and Territory, in which residents of another jurisdiction were generally coded to their correct usual address. This is of particular note for the Australian Capital Territory (ACT), where 15% of births in the ACT in the period 2015 to 2017 were to residents of New South Wales. This change will affect the time series published for quintiles and Remoteness Areas.

**Source:** Compiled by PHIDU based on data from the Australian Institute of Health and Welfare, on behalf of the States and Territories.

#### Smoking during pregnancy, 2016 to 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise the women who reported that they smoked during a pregnancy, expressed as a proportion of the number of pregnancies. Note that as the data are aggregated over three years, they may include women who gave birth more than once during the time period.

Data published previously were collected from each State and Territory health agency and are likely to have excluded people who live in one State/Territory and used a service in another. This data release uses data, provided to the Australian Institute of Health and Welfare by each State and Territory, in which residents of another jurisdiction were generally coded to their correct usual address. This is of particular note for the Australian Capital Territory (ACT), where 15% of births in the ACT in the period 2015 to 2017 were to residents of New South Wales. This change will affect the time series published for quintiles and Remoteness Areas.

**Source:** Compiled by PHIDU based on data from the Australian Institute of Health and Welfare, on behalf of the States and Territories.

#### Antenatal visits, 2016 to 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise the number of women who gave birth during this period and did not have an antenatal visit in the first 10 weeks of pregnancy, expressed as a proportion of the number of women who gave birth. Note that as the data are aggregated over three years, they may include women who gave birth more than once during the time period.

**Source:** Compiled by PHIDU based on data from the Australian Institute of Health and Welfare, on behalf of the States and Territories.

#### Breastfeeding (modelled estimates), 2014-15

In the absence of data from administrative data sets, estimates have been produced for breastfeeding from the 2014-15 National Health Survey (NHS), conducted by the ABS. For further details on the production of these estimates (referred to as modelled estimates) and caveats, see [Modelled estimates](#), above.

**Note:** The modelled estimates for the following indicators are based on models containing a small number of predictor variables than available for other modelled estimates. The ABS advise that reasons for this may include a low sample count for the outcome variable and/or small variation/similar characteristics within the sample for the outcome variable. Caution should be applied when interpreting the modelled estimates for these outcome variables, as it is possible that the sample is not representative of the total population with these characteristics of interest.

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS; estimates at the LGA and PHN level were derived from the PHA estimates.

#### Fully breastfed babies at 3 months, 2014-15

– by PHA, LGA, PHN

**Indicator detail:** The data comprise the estimated number of children aged 3 to 24 months who were fully breastfed at 3 months of age.

#### Fully breastfed babies at 6 months, 2014-15

– by PHA, LGA, PHN

**Indicator detail:** The data comprise the estimated number of children aged 3 to 24 months or under who were fully breastfed at 6 months of age.

## Children who first ate soft, semi-solid or solid food before 4 months of age, 2014-15

– by PHA, LGA, PHN

**Indicator detail:** The data comprise the estimated number of children aged 3 years or under who first ate soft, semi-solid or solid food before 4 months of age.

**Estimates for this indicator differ from estimates presented on the ABS website which comprise children who first ate soft, semi-solid or solid food before 5 months of age.**

## Child and youth health, various years

### Children fully immunised at 1 year of age, 2 years of age and 5 years of age, 2018

– by PHA, LGA (see note below), PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are of registered\* children fully immunised at 1 year of age, 2 years of age and 5 years of age.

For the purposes of reporting the data, fully immunised means a child receives the vaccinations due at or immediately prior to the age at which the measurement occurs. It is assumed that all previous vaccinations were received.

The definitions of fully immunised are:

- **Children aged 1 year:** Fully immunised at 1 year means that a child aged 12 months to less than 15 months received three doses of a diphtheria, tetanus and whooping cough-containing vaccine, three doses of polio vaccine, two or three doses of Haemophilus influenzae type b vaccine (dependent of the type of vaccine used), three doses of hepatitis B vaccine, and three doses pneumococcal vaccine, all prior to the age of 1 year.
- **Children aged 2 years:** Fully immunised at 2 years means that a child aged 24 to less than 27 months received three doses of a diphtheria, tetanus and whooping cough-containing vaccine, three doses of polio vaccine, three or four doses of Haemophilus influenzae type b vaccine (dependent of the type of vaccine used), three doses of hepatitis B vaccine, one dose of a measles, mumps and rubella-containing vaccine, one dose of meningococcal C vaccine, and one dose of varicella (chicken pox) vaccine, all prior to the age of 2 years.
- **Children aged 5 years:** Fully immunised at 5 years means that a child aged 60 to less than 63 months received four doses of a diphtheria, tetanus and whooping cough-containing vaccine, four doses of polio vaccine, and two doses of a measles, mumps and rubella-containing vaccine, all prior to the age of 5 years.

Data are not shown for areas where there were fewer than 10 registered children or fewer than 10 children immunised.

**Note:** In this edition, the data for the APY Lands (in the PHA and PHN atlases) and Anangu Pitjantjatjara (AC) (in the LGA atlas) have been shown as 'n.a.' (not available), due to concerns as to the reliability of the data. In addition, the LGA data for this indicator are estimated, refer to the [Caveat on LGA data quality](#) for more information.

\*Registered on the Australian Childhood Immunisation Register (ACIR). The ACIR is a national register that records vaccinations given to children under seven years old. It also provides immunisation history statements to parents or guardians.

**Source:** Compiled by PHIDU based on data provided by the Australian Childhood Immunisation Register, Medicare Australia, 2018 calendar year.

### HPV vaccine coverage: females aged 15 years in mid-2017, who received Dose 3 of the vaccine by 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### HPV vaccine coverage: males aged 15 years in mid-2017, who received Dose 3 of the vaccine by 2018

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are for females and males who were aged 15 years as at 30 June 2017, and who received three doses of the HPV vaccination and reported to the HPV Register by 3 October 2018. Females and males receiving all three doses represent those fully vaccinated.

Where there were fewer than ten participants in an area, the data are not shown; same level of confidentialisation applied to all geographies

Information held by the National HPV Vaccination Program Register is provided to the Register from immunisation providers. The accuracy of the information is dependent on the quality and timeliness of the data provided. Every effort is made to ensure that the information recorded on the Register is up to date and correct.

There are a number of instances in which percentages calculated for an area show as greater than 100% in the data. These may occur as a result of the numerator (the number of females vaccinated) being inaccurate where:

- the limited size of populations in some geographical areas;
- the estimated nature of the denominator populations used; or
- an inaccurate numerator due to the data having not been geo-coded. The geographic area at which the data are available is the postcode; postcode data are allocated to a PHA on the basis of the proportion of the postcode which falls into a PHA, which can result in allocation to the wrong PHA; the conversion is undertaken using approximate allocations of postcode populations (based on the best fit of Census Collection Districts (CDs) to postcode areas) to LGAs, derived from data at the previous Census. In many instances this conversion

represents a crude allocation of the population of any LGA. For example, in many cases the boundaries of CDs do not match the boundaries of postcodes, and whole CDs are allocated to the postcode into which the population largely falls.

**Source:** Compiled by PHIDU using data from the National HPV Vaccination Program Register (NHVPR), November 2018; and the ABS Census Estimated Resident Population (ERP) 2017.

## Infant mortality, 2015 to 2019

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are of deaths that occurred before 12 months of age, as a rate per 1,000 live births. Data are not shown for areas where there were fewer than 20 births.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data are preliminary, the second latest are revised and the data for the remaining years are final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The births data for 2015 to 2019 were compiled from the [ABS Births, Australia 2018 \(ABS Cat. no. 3301.0\)](#).

## Youth mortality: Deaths of persons aged 15 to 24 years, 2015 to 2019

### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are the average annual indirectly age-standardised rates per 100,000 population (aged 15 to 24 years); and/or indirectly age-standardised ratios, based on the Australian standard.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data are preliminary, the second latest are revised and the data for the remaining years are final. For further information about the ABS revisions process, see the following and related sites:

<http://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP) for Australia, 30 June 2015 to 30 June 2019.

## Screening programs: various years

### Bowel screening, 2016 and 2017

**Conditions of Use for all Bowel screening data:** Users of the National Bowel Cancer Screening Program (NBCSP) data must acknowledge the Department of Health as the original source of the data and include the following disclaimer:

1. *Formal publication and reporting of the NBCSP data are undertaken by the Australian Institute of Health and Welfare on behalf of the Department of Health. NBCSP data included in this report provided by the Department of Health are not part of the formal publication and reporting process for NBCSP data.*
2. *Cautionary note about small numbers - Due to a larger degree of statistical fluctuation in small numbers, great care should be taken when assessing apparent differences involving small numbers and measures based on small numbers.*

**Source:** Compiled by PHIDU based on data provided by the Department of Health from the National Bowel Cancer Screening Program, 2016 and 2017.

### Total males who participated in the National Bowel Cancer Screening Program, 2016 and 2017

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Total females who participated in the National Bowel Cancer Screening Program, 2016 and 2017

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Total people who participated in the National Bowel Cancer Screening Program, 2016 and 2017

#### – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data comprise the number of males/ females/ people aged 50-74 years who participated in the National Bowel Cancer Screening Program between 1 January 2016 and 31 December 2017, expressed as a proportion of the number of males/ females/ people aged 50-74 years who were invited to participate in the National Bowel Cancer Screening Program between 1 January 2016 and 31 December 2017.

Where there are fewer than six events (invitees, participants) in an area, the data is suppressed to protect confidentiality. In addition, the current NBCSP data is presented over two calendar years - 2016 and 2017, hence it is not comparable with the previous release for 2014/15 (one financial year).



## National Bowel Cancer Screening Program: positive test result, males, 2016 and 2017

– by PHA, LGA, PHN, Quintiles, Remoteness

## National Bowel Cancer Screening Program: positive test result, females, 2016 and 2017

– by PHA, LGA, PHN, Quintiles, Remoteness

## National Bowel Cancer Screening Program: positive test result, people, 2016 and 2017

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The outcome indicator presented is referred to as a 'positive test result'; a positive FOBT result indicates that blood has been found in the sample provided.

The data comprise the number of males/ females/ people aged 50-74 years who received a positive test result from the Faecal Occult Blood Test (FOBT) in the National Bowel Cancer Screening Program between 1 January 2016 and 31 December 2017, expressed as a proportion of the number of males/ females/ people aged 50-74 years who participated in the National Bowel Cancer Screening Program between 1 January 2016 and 31 December 2017.

Where there are fewer than six events (invitees, participants) in an area, the data is suppressed to protect confidentiality. In addition, the current NBCSP data is presented over two calendar years - 2016 and 2017, hence it is not comparable with the previous release for 2014/15 (one financial year).

## Breast screening, 2015 and 2016 (NSW, & SA), 2016 and 2017 (Vic)

### Breast screening participation, females aged 50 to 69 years, 2015 and 2016 (NSW, & SA), 2016 and 2017 (Vic)

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The participation rate for the 24-month period to the end of each calendar year is based on the actual number of women screened as a percentage of the average of the ABS Estimated Resident Population for the two corresponding calendar years. If a woman has attended more than once in the 24 months, she is counted once only, and the age is taken from the first visit.

The data do not include women who undergo private screening; the impact of such services is estimated to be quite small – see: Department of Health and Ageing (2009) *BreastScreen Australia evaluation: Medicare Benefits Schedule (MBS) Mammography Analysis Project*. Screening monograph no. 11/2009. Canberra: Commonwealth of Australia.

Data are not available for Queensland, Western Australia, Tasmania, the Northern Territory, or the Australian Capital Territory. Archived data from 2010 and 2011 are available for Queensland and Western Australia, and the Australian Capital Territory at <https://phidu.torrens.edu.au/social-health-atlases/data-archive> (May and June 2015 release).

As these data were collected from each State and Territory health agency, they may exclude people who live in one State/Territory and used a service in another. The main occurrences are for people living near State/Territory borders such as in Albury (NSW) and Wodonga (Vic), Tweed (NSW) and Gold Coast (Qld) and from the APY Lands (SA) using services in Alice Springs (NT).

**Source:** Compiled by PHIDU based on data from:

1) BreastScreen NSW, BreastScreen SA, and BreastScreen Vic

2) average of the ABS Estimated Resident Population, 30 June 2015 and 30 June 2016 (NSW, & SA), 30 June 2016 and 30 June 2017 (Vic).

### Breast screening outcomes - cancer, females aged 50 to 69 years, 2015 and 2016 (NSW, & SA), 2016 and 2017 (Vic)

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The breast screening outcomes for the 24-month period to the end of each calendar year are based on the actual number of women diagnosed with breast cancer as an age-standardised rate of the actual number of women screened for the two corresponding calendar years. If a woman has attended more than once in the 24 months, she is counted once only, and the age is taken from the first visit.

Breast cancers include both invasive and ductal carcinoma in situ (DCIS).

The indirectly age-standardised rate per 10,000 women screened is based on the standard population of each respective jurisdiction.

The data do not include women who undergo private screening; the impact of such services is estimated to be quite small – for reference, see **Breast screening participation** note above.

Data are not available for Queensland, Western Australia, Tasmania, the Northern Territory or the Australian Capital Territory. Archived data from 2010 and 2011 are available for Queensland and Western Australia, and the Australian Capital Territory at <https://phidu.torrens.edu.au/social-health-atlases/data-archive> (May and June 2015 release).

As these data were collected from each State and Territory health agency, they may exclude people who live in one State/Territory and used a service in another. The main occurrences are for people living near State/Territory borders such as in Albury (NSW) and Wodonga (Vic) and Tweed (NSW) and Gold Coast (Qld).

**Source:** Compiled by PHIDU based on data from BreastScreen NSW, BreastScreen SA, and BreastScreen Vic.

## Cervical screening, 2015 and 2016

**Errata:** Incorrect data for Victoria were identified in the previous release. The corrected data were published in February 2020.

### Cervical screening participation, females aged 20 to 69 years, 2015 and 2016 (NSW, Vic, SA, and WA)

– by PHA, PHN, LGA, Quintiles, Remoteness

**Indicator detail:** The participation rate for the 24-month period to the end of each calendar year is based on the actual number of women screened as a percentage of the average of the ABS Estimated Resident Population for the two corresponding calendar years, excluding an estimate of those who had undergone a full hysterectomy. If a woman has attended more than once in the 24 months, she is counted once only, and the age is taken from the first visit. However, note that the participation rate for Victoria is calculated differently - see details [here](#).

In some instances, percentages are calculated at greater than 100%; this may be the result of:

- the address data being a postcode which is not allocated to the correct geographical area by the concordances available; or
- the address of the facility where the consultation is held or the service is provided being used, rather than the address of the client/ patient.

In time, with more reliable recording of address details, these occurrences should be reduced.

Cervical screening participation numbers within geographic areas along the Victorian and New South Wales borders, specifically the Murray PHN and the Albury Local Government Authority, may be under estimated because women screened in Victoria but who reside in New South Wales may not be fully allocated to the New South Wales geographic area.

Data are not currently available for Queensland, Tasmania, Northern Territory or the Australian Capital Territory; data for these jurisdictions may become available when the National Cancer Screening Register is fully operational.

**Source:** Compiled by PHIDU based on data from the:

- 1) NSW Department of Health and NSW Central Cancer Registry, 2015 and 2016; Victorian Cervical Cytology Registry, 2015 and 2016; SA Cervix Screening Program, 2015 and 2016; and Western Australia Cervical Cytology Register, 2015 and 2016.
- 2) the average of the ABS Estimated Resident Population, 30 June 2015 and 30 June 2016 (NSW, Vic, SA, and WA); with hysterectomy fraction data derived from the AIHW analysis of the National Hospital Morbidity Database. Available at Australian Institute of Health and Welfare 2016. Cervical screening in Australia 2013-14. Cancer series no. 97. Cat. no. CAN 95. Canberra: AIHW. Appendix C.

### Cervical screening outcomes: low grade abnormality, females aged 20 to 69 years, 2015 and 2016 (NSW, Vic, SA, and WA)

– by PHA, PHN, LGA, Quintiles, Remoteness

**Indicator detail:** Cervical screening outcomes for the 24-month period to the end of each calendar year are based on the number of women with an abnormal pap smear as an age-standardised rate of the number of women screened in the corresponding calendar years. If a woman has attended more than once in the 24 months with both low- and high-grade abnormality results, she is counted once only in the high-grade abnormality category, being the most serious result. However, note that cervical screening outcomes for Victoria are calculated differently - see details [here](#).

Low grade abnormalities are cytology test results S2, S3 and E2 according to the national cytology coding schedule.

Rates of low-grade abnormality within geographic areas along the Victorian and New South Wales borders, specifically the Murray PHN and the Albury Local Government Authority, may be under estimated because women tested in Victoria but who reside in New South Wales may not be fully allocated to the New South Wales geographic area.

The indirectly age-standardised rate per 1,000 women screened is based on the standard population of women screened in each respective jurisdiction.

Data are not currently available for Queensland, Tasmania, the Australian Capital Territory and the Northern Territory; data for these jurisdictions may become available when the National Cancer Screening Register is fully operational.

**Source:** Compiled by PHIDU based on data from the NSW Department of Health and NSW Central Cancer Registry, 2015 and 2016; Victorian Cervical Cytology Register, 2015 and 2016; SA Cervix Screening Program, 2015 and 2016 and Western Australia Cervical Cytology Register, 2015 and 2016.

### Cervical screening outcomes: high grade abnormality, females aged 20 to 69 years, 2015 and 2016 (NSW, Vic, SA, and WA)

– by PHA, PHN, LGA, Quintiles, Remoteness

**Indicator detail:** Cervical screening outcomes for the 24-month period to the end of each calendar year are based on the number of women with an abnormal pap smear as an age-standardised rate of the number of women screened in the corresponding calendar years. If a woman has attended more than once in the 24 months with two high-grade abnormality results, she is counted once only, and her age is taken from the first visit. However, note that cervical screening outcomes for Victoria are calculated differently - see details [here](#).

High grade abnormalities are cytology test results S4, S5, S6, E3, E4 and E5 according to the national cytology coding schedule.

Rates of high-grade abnormality within geographic areas along the Victorian and New South Wales borders, specifically the Murray PHN and the Albury Local Government Authority, may be under estimated because women tested in Victoria but who reside in New South Wales may not be fully allocated to the New South Wales geographic area.

The indirectly age-standardised rate per 1,000 women screened is based on the standard population of women screened in each respective jurisdiction.

Data are not currently available for Queensland, Tasmania, the Australian Capital Territory and the Northern Territory; data for these jurisdictions may become available when the National Cancer Screening Register is fully operational.

**Source:** Compiled by PHIDU based on data from the NSW Department of Health and NSW Central Cancer Registry, 2015 and 2016; Victorian Cervical Cytology Register, 2015 and 2016; SA Cervix Screening Program, 2015 and 2016 and Western Australia Cervical Cytology Register, 2015 and 2016.

## Cancer incidence, 2010 to 2014

### Males

Prostate cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Colorectal cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Melanoma of the skin incidence, 2006 to 2010 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Lung cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Head and neck cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Lymphoma cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Leukaemia cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Bladder cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Kidney cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Pancreatic cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

Stomach cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

All other cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

All cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

### Females

Breast cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Colorectal cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Melanoma of the skin incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Lung cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Uterine cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Lymphoma cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Thyroid cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

Leukaemia cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

Ovarian cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

Pancreatic cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

All other cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

All cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

### Persons

Colorectal cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Melanoma of the skin incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Lung cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Lymphoma cancer incidence, 2010 to 2014 – *by PHA, LGA, PHN, Quintiles, Remoteness*

Leukaemia cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

Pancreatic cancer incidence, 2010 to 2014 – *by PHN, Quintiles, Remoteness*

## All other cancer incidence, 2010 to 2014 – by PHN, Quintiles, Remoteness

### All cancer incidence, 2010 to 2014 – by PHN, Quintiles, Remoteness

**Indicator detail:** The data exclude all cases of basal cell carcinoma of the skin and squamous cell carcinoma of the skin.

There may be slight differences between the data presented and other published data sources due to the data being derived from different base geographies.

To protect confidentiality, the following data have been suppressed:

- all data where there are fewer than five events in an area; however, where there were no cases, zero is shown
- rates/ratios where there are from five to nine events in an area, though the number itself is shown

Additional data about these and other cancers are available from the Australian Institute of Health and Welfare website, <https://www.aihw.gov.au/reports/cancer/cancer-in-australia-2019/contents/table-of-contents>

**Detail of analysis:** Indirectly age-standardised rate per 100,000 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Compiled by PHIDU from an analysis by the Australian Institute of Health and Welfare (AIHW) of the Australian Cancer Database (ACD) 2015. The ACD is compiled at the AIHW from cancer data provided by state and territory cancer registries: for further information on the ACD see <https://www.aihw.gov.au/about-our-data/our-data-collections/australian-cancer-database>.

## Self-assessed health (modelled estimates), 2017-18

In the absence of data from administrative data sets, estimates were produced for selected health risk factors from the 2017-18 National Health Survey (NHS), conducted by the Australian Bureau of Statistics (ABS). For further details on the production of these estimates (referred to as modelled estimates) and caveats, see [Modelled estimates](#), above.

### Estimated number of people aged 15 years and over, who reported their self-assessed health as fair or poor, 2017-18

#### – by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data on which the estimates are based are self-reported responses, reported to interviewers in the 2017-18 NHS. Respondents aged 15 years and over were asked to assess their health on a scale from 'poor' to 'excellent' (the scale was 'poor', 'fair', 'good', 'very good', or 'excellent'). The data reported are the sum of responses categorised as 'poor' or 'fair'.

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2017-18 National Health Survey, ABS Survey TableBuilder.

## Prevalence of selected chronic diseases and conditions (estimates), 2011-12 and 2017-18

In the absence of data from administrative data sets, estimates are provided for certain chronic diseases and conditions from the 2011-12 Australian Health Survey and the 2017-18 National Health Survey, conducted by the Australian Bureau of Statistics (ABS). For further details on the production of these estimates (referred to as modelled estimates) and caveats, see [Modelled estimates](#), above.

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2017-18 National Health Survey, Survey TableBuilder or the 2011-12 Australian Health Survey, ABS Survey TableBuilder.

## Diabetes mellitus (modelled estimates), 2017-18

### Estimated population with diabetes mellitus, 2017-18

#### – by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** These data refers to persons who self-reported having been told by a doctor or nurse that they had diabetes mellitus, irrespective of whether the person considered their diabetes to be current or long-term.



## High blood cholesterol (modelled estimates), 2011-12

Estimated population aged 18 years and over with high blood cholesterol, 2011-12

– by Quintiles, Remoteness

**Indicator detail:** Total cholesterol results were obtained for selected people aged 12 years and over, who agreed to participate in the NHMS component of the AHS and provided a blood sample. The total cholesterol test measures the combined amount of lipid (fat) components circulating in the blood at the time of the test. Fasting was not required. In the NHMS, the following definition for high serum total cholesterol was used: abnormal total cholesterol indicated by levels  $\geq 5.5$  mmol/L. This was based on epidemiological data and publications of major clinical trials, and advice from the National Heart Foundation Australia and the Cardiac Society of Australia and New Zealand. The data therefore refer to people with a total blood cholesterol level  $\geq 5.5$  mmol/L.

## Mental and behavioural problems (modelled estimates), 2017-18

Estimated number of males, females and persons with mental and behavioural problems, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** Mental health and behavioural problems were identified through self-reported information on long-term conditions as part of the NHS. When respondents aged 15 years and over reported a long-term mental or behavioural problem, the conditions were treated in a similar manner to other long-term conditions, such as diabetes and asthma. Some possible conditions were behavioural or emotional disorders; dependence on drugs or alcohol; feeling anxious or nervous; and depression and feeling depressed. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more.

In the 2014-15 NHS, a module specifically dedicated to mental and behavioural conditions was included to collect information on cognitive, organic and behavioural conditions. Previously mental and behavioural conditions were collected in a module that included a wide range of long-term health conditions. The number of persons who reported having a mental and behavioural condition in 2014-15 has increased since the 2011-12 AHS, potentially due to the greater prominence of mental and behavioural conditions in the new module. Data on mental and behavioural conditions for 2014-15 are therefore not comparable with data in previous National Health Surveys. For more information, refer to the ABS [NHS: First Results, 2014-15](#). Note that no further changes were made in the 2017-18 NHS.

- Estimated number of males, females and persons with mood (affective) problems, 2017-18

– by Quintiles, Remoteness

**Indicator detail:** Mood (affective) disorders were identified through self-reported information that respondents reported ever being told by a doctor or nurse that they had one or more mood (affective) disorders such as depression/feeling depressed and that it was current and long-term at the time of the interview. A current and long-term condition is defined as a medical condition that has lasted or expected to last six months or more and was current at the time of the interview. Mood disorders include depression and other mood (affective) disorders. In the 2014-15 NHS, a module specifically dedicated to mental and behavioural conditions was included to collect information on cognitive, organic and behavioural conditions. Previously mental and behavioural conditions were collected in a module that included a wide range of long-term health conditions. The number of persons who reported having a mental and behavioural condition in 2014-15 has increased since the 2011-12 AHS, potentially due to the greater prominence of mental and behavioural conditions in the new module. Data on mental and behavioural conditions for 2014-15 are therefore not comparable with data in previous National Health Surveys. For more information, refer to the ABS [NHS: First Results, 2014-15](#). Note that no further changes were made in the 2017-18 NHS.

## Circulatory system diseases (modelled estimates), 2011-12 and 2017-18

Estimated population aged 2 years and over with circulatory system diseases, 2011-12

– by Quintiles, Remoteness

**Indicator detail:** As part of the AHS, respondents aged two years and over were asked if they had ever been told by a doctor or nurse that they had one or more heart or other circulatory system conditions and if they considered they currently have one or more such conditions. The following conditions, however, were assumed to be current long-term conditions:

- rheumatic heart disease;
- heart attack;
- heart failure;
- stroke;
- angina.

A long-term condition is defined as a condition that has lasted, or is expected to last, for 6 months or more.

- **Estimated population with heart, stroke and vascular disease, 2017-18**  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** In the NHS, respondents were asked if they had ever been told by a doctor or nurse that they had one or more of the following heart, stroke and vascular diseases (also referred to as cardiovascular disease) and it was current and long-term at the time of the interview:

- angina, heart attack and other ischaemic heart diseases;
- stroke and other cerebrovascular diseases;
- oedema;
- heart failure;
- diseases of the arteries, arterioles and capillaries.

A current and long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more. For the first time in 2014-15, persons who reported having ischaemic heart diseases and cerebrovascular diseases that were not current and long-term at the time of interview were also included. It is also worth noting that a transient ischaemic attack or "mini-stroke" was included on the interviewer's prompt card in the 2014-15 NHS and coded to 'other cerebrovascular diseases'. This has seen an increased number of 'other cerebrovascular diseases' from 4,900 people in 2011-12 to 171,200 people in 2014-15 and a decrease in the number of people in 'stroke' from 240,000 in 2011-12 to 172,300 people in 2014-15. For more information, refer to ABS [NHS: First Results, 2014-15](#). Note that no further changes were made in the 2017-18 NHS.

## Respiratory system diseases (modelled estimates), 2017-18

### Estimated population with respiratory system diseases, 2017-18 – by Quintiles, Remoteness

**Indicator detail:** In the NHS, these data refer to respondents ever having been told by a doctor or nurse that they have asthma, bronchitis, emphysema or other respiratory system disease; or not diagnosed but who consider their condition to be current and long-term. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more.

- **Estimated population with asthma, 2017-18**  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** These data refer to respondents ever having been told by a doctor or nurse that they have asthma, and whose asthma is current and long-term. Whether a person's asthma is current or not was determined by whether they had had any symptoms of asthma or taken treatment for asthma in the last 12 months. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more.

- **Estimated population with chronic obstructive pulmonary disease, 2017-18**  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** These data refer to respondents ever having been told by a doctor or nurse that they have bronchitis or emphysema (chronic obstructive pulmonary disease [COPD]); or not diagnosed but who consider their condition to be current and long-term. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more.

## Musculoskeletal system diseases (modelled estimates), 2017-18

### Estimated population with musculoskeletal system diseases, 2017-18 – by Quintiles, Remoteness

**Indicator detail:** In the NHS, these data refer to respondents ever having been told by a doctor or nurse that they have a disease of the musculoskeletal system and connective tissue; or not diagnosed but who consider their condition to be current and long-term. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more.

- **Estimated population with arthritis, 2017-18**  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** These data refer to respondents who were asked whether they have, or had ever had:

- gout;
- rheumatism;
- arthritis;
- osteoarthritis;
- rheumatoid arthritis;
- other types of arthritis.

If respondents reported either gout or rheumatism, they were then asked whether their condition was expected to last for six months or more. If they identified an arthritis condition, other than gout or rheumatism, they were

asked whether they had ever been told by a doctor or nurse that they have the condition. Only persons whose arthritis was current and long-term were recorded as having arthritis. Persons who reported having arthritis, which was not current and long-term, were recorded as not having arthritis. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more. Arthritis is defined as osteoarthritis, rheumatoid arthritis and other arthritis or type unknown, that is current and long-term.

The 2014-15 NHS differs from the 2011-12 AHS in that respondents were not immediately asked, in the first question of the module, whether they had ever been told by a doctor or nurse they have arthritis. For more information refer to the [NHS Users' Guide, 2014-15](#). Note that no further changes were made in the 2017-18 NHS.

- [Estimated population with rheumatoid arthritis, 2017-18](#)
- [– by Quintiles, Remoteness](#)

**Indicator detail:** These data refer to persons ever been told by a doctor or nurse that they have rheumatoid arthritis and consider their condition to be current and long-term. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more. For further information about arthritis estimates, refer to the [arthritis indicator detail](#) above.

- [Estimated population with osteoarthritis, 2017-18](#)
- [– by Quintiles, Remoteness](#)

**Indicator detail:** These data refer to persons ever been told by a doctor or nurse that they have osteoarthritis and consider their condition to be current and long-term. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more. For further information about arthritis estimates, refer to the [arthritis indicator detail](#) above.

- [Estimated population with osteoporosis, 2017-18](#)
- [– by PHA, LGA, PHN, Quintiles, Remoteness](#)

**Indicator detail:** These data refer to persons ever been told diagnosed by a doctor or nurse as having osteoporosis or osteopenia (current and long term). A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more. For further information about arthritis estimates, refer to the [arthritis indicator detail](#) above.

## Prevalence of selected health risk factors for adults (modelled estimates), 2017-18

In the absence of data from administrative data sets, estimates have been produced for selected health risk factors from the 2017-18 National Health Survey (NHS), conducted by the Australian Bureau of Statistics (ABS). For further details on the production of these estimates (referred to as modelled estimates) and caveats, see [Modelled estimates](#), above.

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2017-18 National Health Survey, ABS Survey TableBuilder.

## Psychological distress (modelled estimates), 2017-18

[Estimated number of males aged 18 years and over with high or very high psychological distress based on the Kessler 10 Scale \(K10\), 2017-18](#)

[– by PHA, LGA, PHN, Quintiles, Remoteness](#)

[Estimated number of females aged 18 years and over with high or very high psychological distress based on the Kessler 10 Scale \(K10\), 2017-18](#)

[– by PHA, LGA, PHN, Quintiles, Remoteness](#)

[Estimated number of people aged 18 years and over with high or very high psychological distress based on the Kessler 10 Scale \(K10\), 2017-18](#)

[– by PHA, LGA, PHN, Quintiles, Remoteness](#)

**Indicator detail:** Information was collected from respondents aged 18 years and over using the Kessler Psychological Distress Scale-10 (K10). This ten-item questionnaire yields a measure of psychological distress based on questions about negative emotional states (with different degrees of severity) experienced in the four weeks prior to interview. For each question, there is a five-level response scale based on the amount of time that a respondent experienced those particular feelings. The response options are 'none of the time'; 'a little of the time'; 'some of the time'; 'most of the time'; or 'all of the time'. Each of the items are scored from 1 for 'none' to 5 for 'all of the time'. Scores for the ten items are summed, yielding a minimum possible score of 10 and a maximum possible score of 50, with low scores indicating low levels of psychological distress and high scores indicating high levels of psychological distress.

K10 results are commonly grouped for output. Results are grouped into the following four levels of psychological distress: 'low' (scores of 10-15, indicating little or no psychological distress); 'moderate' (scores of 16-21); 'high'

(scores of 22-29); and 'very high' (scores of 30-50). Based on research from other population studies, a 'very high' level of psychological distress shown by the K10 may indicate a need for professional help. For the indicator in this atlas, data are for respondents aged 18 years and over who scored in the 'high' and 'very high' levels of psychological distress.

## Blood pressure (modelled estimates), 2017-18

Estimated number of people aged 18 years and over who had high blood pressure, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The modelled estimates are based on details of people in the sample who had their blood pressure measured in the 2014-15 NHS. High blood pressure is defined as measured systolic BP of 140 mmHg or more or diastolic BP of 90 mmHg or more, irrespective of the use of BP medication.

## Overweight, obesity and waist measurement (modelled estimates), 2017-18

Estimated number of males aged 18 years and over who were overweight (but not obese), 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of males aged 18 years and over who were obese, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of females aged 18 years and over who were overweight (but not obese), 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of females aged 18 years and over who were obese, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who were overweight (but not obese), 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who were obese, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The Body Mass Index (BMI) (or Quetelet's index) is a measure of relative weight based on an individual's mass and height. The height (cm) and weight (kg) of respondents, as measured during the NHS interview, were used to calculate the BMI as follows:

- Overweight (but not obesity) was determined where a person's BMI was between 25 and less than 30.
- Obesity was determined where a person's BMI was 30 or greater.

The BMI is a useful tool at a population level for measuring trends in body weight, and helping to define population groups who are at higher risk of becoming obese, and therefore developing long-term medical conditions associated with a high BMI, such as type 2 diabetes and cardiovascular disease.

Note that the modelled estimates are based on the 66.2% of persons 18 years and over in the sample who had their height and weight measured. For respondents who did not have their height and weight measured, imputation was used to obtain height, weight and BMI scores. For more information refer to [Appendix 2: Physical measurements](#) in the ABS publication National Health Survey: First Results, 2017-18 (Cat. no. 4364.0.55.001).

Estimated number of males aged 18 years and over with a waist measurement indicating an increased/ substantially increased risk of developing chronic diseases

– by Quintiles, Remoteness, 2017-18

Estimated number of females aged 18 years and over with a waist measurement indicating an increased/ substantially increased risk of developing chronic diseases

– by Quintiles, Remoteness, 2017-18

Estimated number of people aged 18 years and over with a waist measurement indicating an increased/ substantially increased risk of developing chronic diseases

– by Quintiles, Remoteness, 2017-18

**Indicator detail:** Waist circumference is a commonly used measure of whether a person is of a healthy weight or not. In particular, it provides a good estimate of body fat, and can indicate a person's potential risk of developing chronic diseases such as heart disease and Type 2 diabetes.

A waist measurement of 94cm or more for men or 80cm or more for women indicates that a person is at increased risk of developing chronic disease; see World Health Organisation, 2000, Obesity: preventing and managing the global epidemic. Report of a WHO Consultation, 2000, <[http://libdoc.who.int/trs/WHO\\_TRS\\_894.pdf](http://libdoc.who.int/trs/WHO_TRS_894.pdf)>; last accessed 13 January 2018.



## Smoking (modelled estimates), 2017-18

Estimated number of males aged 18 years and over who were current smokers, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of females aged 18 years and over who were current smokers, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who were current smokers, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data on which the estimates are based are self-reported responses, reported to interviewers in the 2017-18 NHS. A current smoker is an adult who reported at the time of interview that they smoked manufactured (packet) cigarettes, roll-your-own cigarettes, cigars, and/or pipes at least once per week.

It excludes chewing tobacco, electronic cigarettes (and similar) and smoking of non-tobacco products. As part of the NHS, respondents aged 18 years and over were asked to describe their smoking status at the time of interview as:

1. current smokers: daily, weekly, other;
2. ex-smokers;
3. never smoked (those who had never smoked 100 cigarettes, nor pipes, cigars or other tobacco products at least 20 times, in their lifetime).

For the indicator in this atlas, data are for respondents aged 18 years and over who responded that they were “a current, daily or at least once weekly smoker”.

## Alcohol: lifetime risky drinking (modelled estimates), 2017-18

Estimated number of males aged 18 years and over who consumed more than two standard alcoholic drinks per day on average, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of females aged 18 years and over who consumed more than two standard alcoholic drinks per day on average, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of people aged 18 years and over who consumed more than two standard alcoholic drinks per day on average, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data on which the estimates are based are self-reported responses, reported to interviewers in the 2017-18 NHS. The National Health and Medical Research Council guidelines for lifetime risk state that, for healthy men and women, drinking no more than two standard drinks on any day reduces the lifetime risk of harm from alcohol-related disease or injury.

Note that this indicator was previously published for the 2014-15 NHS for people aged 15 years and over.

## Fruit consumption (modelled estimates), 2017-18

Estimated number of adults aged 18 years and over with adequate fruit intake, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** Adequate fruit consumption as shown here is equivalent to the minimum number of serves recommended in the 2013 NHMRC Australian Dietary Guidelines, of 2 serves for people aged 18 years and over. The data on which the estimates are based are self-reported responses, reported to interviewers in the 2017-18 NHS.

## Exercise (modelled estimates), 2017-18

Estimated number of people aged 18 years and over who undertook low, very low or no exercise in the week prior to the survey, 2017-18  
– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The data on which the estimates were based are self-reported responses, reported to interviewers in the 2017-18 NHS. The modelled estimates were based on data for exercise undertaken for fitness, sport or recreation in the week prior to being interviewed. Exercise level was calculated ‘Duration of exercise (minutes) x Intensity factor (walking for fitness = 3.5, moderate = 5, vigorous = 7.5): low, very low or no exercise refers to scores of less than 800.

## Prevalence of selected health risk factors for children (modelled estimates), 2017-18

In the absence of data from administrative data sets, estimates have been produced for selected health risk factors from the 2017-18 National Health Survey (NHS), conducted by the Australian Bureau of Statistics (ABS). For further details on the production of these estimates (referred to as modelled estimates) and caveats, see [Modelled estimates](#), above.

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Population Health Areas (PHAs) are modelled estimates and were produced by the ABS; estimates at the LGA and PHN level were derived from the PHA estimates.

Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2017-18 National Health Survey, ABS Survey TableBuilder.

## Overweight and obesity (children) (modelled estimates), 2017-18

Estimated number of male children aged 2-17 years who were overweight (but not obese), 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of male children aged 2-17 years who were obese, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of female children aged 2-17 years who were overweight (but not obese), 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of female children aged 2-17 years who were obese, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of children aged 2-17 years who were overweight (but not obese), 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

Estimated number of children aged 2-17 years who were obese, 2017-18

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** The estimated number of boys and of girls assessed as being obese on the basis of their measured height and weight (Body Mass Index) as a proportion of all four year old boys and girls assessed. Body Mass Index (BMI) (or Quetelet's index) is a measure of relative weight based on an individual's mass and height. The height (cm) and weight (kg) of respondents, as measured during the NHS interview, were used to calculate the BMI. For more information about BMI classifications produced for children, refer to the Body Mass Index definition in the [National Health Survey: First Results, 2017-18 Glossary](#).

Note that the modelled estimates are based on the 56.1% of children and young people aged 2 to 17 years in the sample who had their height and weight measured. For respondents who did not have their height and weight measured, imputation was used to obtain height, weight and BMI scores. For more information refer to [Appendix 2: Physical measurements](#) in the ABS publication National Health Survey: First Results, 2017-18 (Cat. no. 4364.0.55.001).

## Fruit consumption (children) (modelled estimates), 2017-18

Estimated number of children aged 4-17 years with adequate fruit intake, 2017-18

– by Quintiles, Remoteness

**Indicator detail:** Adequate fruit consumption as shown here is equivalent to the minimum number of serves recommended in the 2013 NHMRC Australian Dietary Guidelines, of 1.5 serves for children aged 4 to 8 years and 2 for children aged 9 to 17 years. The data on which the estimates are based are self-reported responses, reported to interviewers in the 2017-18 NHS.

## Selected composite indicators (modelled estimates), 2014-15

In the absence of data from administrative data sets, estimates are provided for certain chronic diseases and conditions from the 2014-15 NHS, conducted by the Australian Bureau of Statistics (ABS). For further details on the production of these estimates (referred to as modelled estimates) and caveats, see [Modelled estimates](#), above.

**Detail of analysis:** Indirectly age-standardised rate per 100 population; or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Estimates for Quintiles and Remoteness Areas were compiled by PHIDU based on direct estimates from the 2014-15 National Health Survey (NHS), Survey TableBuilder

Estimated number of males, females and persons aged 18 years and over with at least one of four risk factors (current smokers, high risk alcohol, obese, no or low exercise in the previous week), 2014-15

– by Quintiles, Remoteness

**Indicator detail:** The four risk factors are: current smokers; consuming alcohol at levels considered to be a high risk to health over their lifetime; obese from measured height and weight; and no or low exercise in the week prior to interview. See each indicator for definitions.

## Estimated population, aged 18 years and over, who were overweight (but not obese) and had type 2 diabetes, 2014-15

– by Quintiles, Remoteness

## Estimated population, aged 18 years and over, who were obese and had type 2 diabetes mellitus, 2014-15

– by Quintiles, Remoteness

**Indicator detail:** The Body Mass Index (BMI) (or Quetelet's index) is a measure of relative weight based on an individual's mass and height. The height (cm) and weight (kg) of respondents, as measured during the AHS interview, were used to calculate the BMI, and overweight (but not obesity) was determined where a person's BMI was between 25 and less than 30. Adults with a BMI equalling 30 or over were classified as obese. The BMI is a useful tool at a population level for measuring trends in body weight, and helping to define population groups who are at higher risk of becoming obese, and therefore developing long-term medical conditions associated with a high BMI, such as type 2 diabetes and cardiovascular disease. Note that the modelled estimates are based on the 84.3% of persons 18 years and over in the sample who had their height and weight measured.

Persons with type 2 diabetes refers to respondents who self-reported having been told by a doctor or nurse that they had type 2 diabetes mellitus, irrespective of whether the person considered their diabetes to be current or long-term.

## Estimated population, aged 18 years and over, who were current smokers and had asthma and/or chronic obstructive pulmonary disease, 2014-15

– by Quintiles, Remoteness

**Indicator detail:** A current smoker is defined as an adult aged 18 years and over who reported at the time of interview that they smoked manufactured (packet) cigarettes, roll-your-own cigarettes, cigars, and/or pipes at least once per week. It excludes chewing tobacco and smoking of non-tobacco products.

Asthma refers to persons ever told by a doctor or nurse that they have asthma, and whose asthma is current or long term. Whether a person's asthma is current or not was determined by whether they had had any symptoms of asthma or taken treatment for asthma in the last 12 months. A long-term condition is defined as a condition that is current and has lasted, or is expected to last, for 6 months or more.

Chronic obstructive pulmonary disease (COPD) refers to persons ever told by a doctor or nurse that they have bronchitis or emphysema; or not diagnosed but who consider their condition to be current and long-term.

## Estimated population, aged 16 to 64 years, with mental and behavioural problems who were in employment, 2014-15

– by PHA, LGA, PHN, Quintiles, Remoteness

**Indicator detail:** Employed persons data were persons aged 16 to 64 years who reported working in the previous week or was absent from a job during that week. These data exclude:

- unpaid volunteers;
- people who usually work less than 1 hour per week;
- people who were away from work on workers compensation; and
- people who were not, or were unsure, if they were returning to work for their employer.

Mental and behavioural problems data refer to persons aged 16 to 64 years who self-reported ever being told by a doctor or nurse that they had one or more of the following mental and behavioural problems, that were considered current and long:

- anxiety-related conditions (such as anxiety disorders/ feeling anxious, nervous or tense);
- mood (affective) disorders (such as depression/ feeling depressed);
- alcohol and drug problems;
- problems of psychological development;
- behavioural, cognitive and emotional problems with usual onset in childhood/adolescence;
- other mental and behavioural problems.

A current and long-term condition is defined as a medical condition that has lasted or expected to last six months or more and was current at the time of the interview. In the 2014-15 National Health Survey, a module specifically dedicated to mental and behavioural conditions was included to collect information on cognitive, organic and behavioural conditions. Previously mental and behavioural conditions were collected in a module that included a wide range of long-term health conditions. The number of persons who reported having a mental and behavioural condition in 2014-15 has increased since the 2011-12 NHS, potentially due to the greater prominence of mental and behavioural conditions in the new module. Data on mental and behavioural conditions for 2014-15 are therefore not comparable with data in previous National Health Surveys. For more information refer to the [NHS: First Results, 2014-15](#).

## Disability, 2016

### Assistance to people with a disability (unpaid), 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The 'Assistance to persons with a disability (unpaid)' variable records people who, in the two weeks prior to Census Night, spent time providing unpaid care, help or assistance to family members or others because of a disability, a long-term illness (lasting six months or more) and/or problems related to older age.

The data exclude the 8.5% of people aged 15 years and over whose unpaid assistance to people with a disability was not stated (the proportion excluded was calculated based on the Australian data).

**Source:** Compiled by PHIDU based on ABS Census 2016 data.

### People with a profound or severe disability (includes people in long-term accommodation), All ages, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### People with a profound or severe disability and living in the community, All ages, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### People with a profound or severe disability (includes people in long-term accommodation), 0 to 64 years, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### People with a profound or severe disability and living in the community, 0 to 64 years, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### People with a profound or severe disability (includes people in long-term accommodation), 65 years and over, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### People with a profound or severe disability and living in the community, 65 years and over, 2016

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The 'Core Activity Need for Assistance' variable was developed by the Australian Bureau of Statistics (ABS) for use in the five-yearly population Census to measure the number of people with a profound or severe disability, and to show their geographic distribution. A person with profound or severe limitation needs help or supervision always (profound) or sometimes (severe) to perform activities that most people undertake at least daily, that is, the core activities of self-care, mobility and/or communication, as the result of a disability, long-term health condition (lasting six months or more), and/or older age. Fewer people are reported under this measure as having a profound or severe disability as are measured in the ABS Survey of Disability, Ageing and Carers (SDAC). The reasons for this are definitional (the SDAC approach, which uses a filtering approach to determine whether the respondent has a disability, and the severity) as compared to the self-report approach in the Census; and the large not-stated category in the Census data, with more people not responding to this set of questions than are reported as having a profound or severe disability. While the SDAC figures should be used as the measure for this concept, the Census data are appropriate for getting an understanding of the geographic distribution of this population group.

The ABS published figures are of people – of all ages/ aged 0 to 64 years/ aged 65 years and over, as appropriate – including those living in long-term residential accommodation in nursing homes, accommodation for the retired or aged (not self-contained), hostels for the disabled and psychiatric hospitals: the 'total' figure in this atlas includes people living in these accommodation types, whereas the figure for 'living in the community' excludes them.

Details of the total number of people with a disability – including those with a moderate or mild disability – are not available.

**Source:** Compiled by PHIDU based on the ABS Census 2016 (unpublished) data.

## Calculation of death rates for quintiles

### Note for all Median age at death, premature mortality and avoidable mortality (quintiles only):

Death rates were calculated by allocating deaths to one of five groups of areas (quintiles) based on the Index of Relative Socio-economic Disadvantage (IRSD<sup>1</sup> [1]). To produce quintiles of socioeconomic disadvantage, the smallest geographic areas for which the mortality data were available<sup>2</sup> were ranked by their IRSD score and categorised into five population-equivalent groups, each comprising areas with 20% of the population. The death rate was then calculated for each quintile, with quintile 1 containing the highest socioeconomic status areas (least disadvantaged) and quintile 5 comprised of the lowest socioeconomic status areas (most disadvantaged). The same approach was applied to calculate the median age of death and avoidable mortality.

The IRSD scores for each Census were used to produce the quintiles for the Census year and the two years before and the two years after that Census year. So, the 2016 IRSD was applied to the years 2015 to 2019. A limitation of this approach using the IRSD, is that the Australian Bureau of Statistics, who produce the IRSD, undertake a principal

<sup>1</sup> The IRSD is one of the Socio-Economic Indexes for Areas (SEIFA), produced by the Australian Bureau of Statistics (see reference [1], above).

<sup>2</sup> Mortality data from 1987 to 2011 were available by Statistical Local Area (SLA) and from 2012 on by Population Health Area (PHA).



components analysis following each Census, with some change in variables in the analysis. However, we are not aware of a more robust process for making this comparison.

Death rates were produced by indirect standardisation, using the Estimated Resident Population, available from the Australian Bureau of Statistics. Local area populations were those related to the year of the geographic classification to which the address of the deceased was coded; this was generally the classification for the July preceding the calendar year in which deaths were registered.

#### References

1. Australian Bureau of Statistics (ABS). 2033.0.55.001 - Census of Population and Housing: Socio-Economic Indexes for Areas (SEIFA), Australia, 2016. Available from <https://www.abs.gov.au/ausstats/abs@.nsf/Lookup/by%20Subject/2033.0.55.001~2016~Main%20Features~IRS~19>, last accessed 13 February 2020.

### Median age at death, 2015 to 2019

#### Median age at death of males, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

#### Median age at death of females, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

#### Median age at death of persons, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data is preliminary, the second latest is revised and the data for the remaining years is final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System.

### Premature mortality by sex, 2015 to 2019

#### Deaths of males aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

#### Deaths of females aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

#### Total deaths, 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are the average annual indirectly age-standardised rates per 100,000 males/females/ population (aged 0 to 74 years); and/or indirectly age-standardised ratios, based on the Australian standard.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data is preliminary, the second latest is revised and the data for the remaining years is final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP), 30 June 2015 to 30 June 2019.

### Premature mortality by selected cause, 2015 to 2019

#### Deaths from cancer, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** C00-D48

- Deaths from colorectal cancer, persons aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** C18-C21, C26.0

- Deaths from lung cancer, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** C33, C34

- Deaths from breast cancer, females aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: C50

Deaths from diabetes, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: E10-E14

Deaths from circulatory system diseases, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: I00-I99

- Deaths from ischaemic heart disease, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: I20-25

- Deaths from cerebrovascular disease, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: I60-I69

Deaths from respiratory system diseases, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: J00-J99

- Deaths from chronic obstructive pulmonary disease, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: J40-J44

Deaths from external causes, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: V01-Y98

- Deaths from road traffic injuries, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: V00-V06.[1], V09.2, V09.3, V10-V18.[4,5,9], V19.[4,5,6,9], V20-V28.[4,5,9], V29.[4,5,6,9], V30-V38.[5,6,7,9], V39.[4,5,6,9], V40-V48.[5,6,7,9], V49.[4,5,6,9], V50-V48.[5,6,7,9], V59.[4,5,6,9], V60-V68.[5,6,7,9], V69.[4,5,6,9], V70-V78.[5,6,7,9], V79.[4,5,6,9], V81.1, V82.1, V82.9, V83-V86.[0,1,2,3], V87, V89.2, V89.3

- Deaths from suicide and self-inflicted injuries, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10 codes: X60-X84, Y87.0

**Indicator detail:** For all indicators, the data presented are the average annual indirectly age-standardised rates per 100,000 total population (aged 0 to 74 years); and/or indirectly age-standardised ratios, based on the Australian standard. The exception is for 'Deaths from breast cancer (females)', where the rates are limited to the female population.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data are preliminary, the second latest are revised and the data for the remaining years are final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP), 30 June 2015 to 30 June 2019.

## Avoidable mortality, 2015 to 2019

**Background:** In 2010, the National Healthcare Agreement (NHA) included a performance indicator called Potentially Avoidable Deaths (PI-20). The specification for this indicator was endorsed by the Australian Health Ministers' Advisory Council in 2009 based on advice from the National Health Information Standards and Statistics Committee (NHISSC).

On 4 December 2013, NHISSC agreed to the re-establishment of the Potentially Preventable Hospitalisations/Potentially Avoidable Deaths (PPH/PAD) Working Group to finalise specification of this performance indicator for the 2015 NHA report. Throughout 2014, work was done by the PPH/PAD Working Group, with further revisions by the Australian Institute of Health and Welfare (AIHW) and including additional NHISSC comments from several states. It also included an examination of the international work in avoidable mortality.

The data presented in this dataset are those listed in the [PI-16 Potentially avoidable deaths, 2020](#).

**Indicator detail:** Deaths are defined as avoidable in the context of the present health system, based on the [PI-16 Potentially avoidable deaths, 2020](#).

The data presented are the average annual indirectly age-standardised rates per 100,000 males/ females/ people (aged 0 to 74 years); and/or indirectly age-standardised ratios, based on the Australian standard.

Not all of the causes of avoidable mortality are shown in this atlas as some have too few cases to be reliable indicators at the small area level.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data are preliminary, the second latest are revised and the data for the remaining years are final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Additional note for all Avoidable mortality data:** Some of the selected avoidable mortality indicators may comprise the same condition(s)/ ICD codes as the selected premature mortality indicators presented in the data/ maps.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP), 30 June 2015 to 30 June 2019.

## **Avoidable mortality by sex, 2015 to 2019**

Deaths from all avoidable causes, males aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Deaths from all avoidable causes, females aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Deaths from all avoidable causes, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

## **Avoidable mortality by selected cause, 2015 to 2019**

Avoidable deaths from cancer, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

- Avoidable deaths from colorectal cancer, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness
- Avoidable deaths from breast cancer, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Avoidable deaths from diabetes, people aged 0 to 74 years, 2015 to 2019– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Avoidable deaths from circulatory system diseases, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

- Avoidable deaths from ischaemic heart disease, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness
- Avoidable deaths from cerebrovascular diseases, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Avoidable deaths from respiratory system diseases, people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

- Avoidable deaths from chronic obstructive pulmonary disease, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Avoidable deaths from selected external causes of mortality (Falls; fires, burns; Suicide and self-inflicted injuries; etc.), people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

- Avoidable deaths from suicide and self-inflicted injuries, people aged 0 to 74 years, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Avoidable deaths from other external causes of mortality (Transport accidents; Accidental drowning and submersion; etc.), people aged 0 to 74 years, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

- Avoidable deaths from transport accidents, people aged 0 to 74 years, 2015 to 2019
  - by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### Potential years of life lost, by sex, 2015 to 2019

Potential years of life lost, males (deaths before 75 years of age), 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Potential years of life lost, females (deaths before 75 years of age), 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Potential years of life lost, persons (deaths before 75 years of age), 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are the sum of the number of years between the actual age at death and 75 years of age for all deaths of each of males, females, persons over the years 2015 to 2019.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data are preliminary, the second latest are revised and the data for the remaining years are final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Detail of analysis:** Average annual indirectly age-standardised rate of potential years of life lost per 1,000 population (aged 0 to 74 years); and/or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP) for Australia, 30 June 2015 to 30 June 2019.

### Potential years of life lost, by age and sex, 2015 to 2019

Potential years of life lost, males by broad year age group (0 to 14, 15 to 24, 25 to 44, 45 to 64 and 65 to 74 years), 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Potential years of life lost, females by broad year age group (0 to 14, 15 to 24, 25 to 44, 45 to 64 and 65 to 74 years), 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Potential years of life lost, persons by broad year age group (0 to 14, 15 to 24, 25 to 44, 45 to 64 and 65 to 74 years), 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** The data presented are the sum of the number of years between the actual age at death and 75 years of age for all deaths of each of males, females, persons aged 0 to 14, 15 to 24, 25 to 44, 45 to 64 and 65 to 74, over the years 2015 to 2019.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data are preliminary, the second latest are revised and the data for the remaining years are final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Detail of analysis:** Average annual indirectly age-standardised rate of potential years of life lost per 1,000 population (aged 0 to 14, 15 to 24, 25 to 44, 45 to 64 and 65 to 74 years); and/or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP) for Australia, 30 June 2015 to 30 June 2019.

### Potential years of life lost, by selected cause, 2015 to 2019

Potential years of life lost from cancer, deaths before 75 years of age, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** C00-D48



- Potential years of life lost from colorectal cancer, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** C18-C21, C26.0
- Potential years of life lost from lung cancer, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** C33, C34
- Potential years of life lost from breast cancer, female deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** C50

Potential years of life lost from diabetes, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** E10-E14

Potential years of life lost from circulatory system diseases, deaths before 75 years of age, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** I00-I99

- Potential years of life lost from ischaemic heart disease, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** I20-25
- Potential years of life lost from cerebrovascular disease, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** I60-I69

Potential years of life lost from respiratory system diseases, deaths before 75 years of age, 2015 to 2019

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** J00-J99

- Potential years of life lost from chronic obstructive pulmonary disease, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** J40-J44

Potential years of life lost from external causes, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10 codes:** V01-Y98

- Potential years of life lost from road traffic injuries, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** V00-V06.[1], V09.2, V09.3, V10-V18.[4,5,9], V19.[4,5,6,9], V20-V28.[4,5,9], V29.[4,5,6,9], V30-V38.[5,6,7,9], V39.[4,5,6,9], V40-V48.[5,6,7,9], V49.[4,5,6,9], V50-V48.[5,6,7,9], V59.[4,5,6,9], V60-V68.[5,6,7,9], V69.[4,5,6,9], V70-V78.[5,6,7,9], V79.[4,5,6,9], V81.1, V82.1, V82.9, V83-V86.[0,1,2,3], V87, V89.2, V89.3
- Potential years of life lost from suicide and self-inflicted injuries, deaths before 75 years of age, 2015 to 2019  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness  
**ICD-10 codes:** X60-X84, Y87.0

**Indicator detail:** The data presented are the sum of the number of years between the actual age at death and 75 years of age for all deaths of each of the selected causes, for persons, over the years 2015 to 2019.

For deaths data released since 2007, the ABS has applied a staged approach to the coding of cause of death which affects the number of records available for release at any date. In each release, the latest year's data is preliminary, the second latest is revised and the data for the remaining years is final. For further information about the ABS revisions process see the following and related sites:

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0Explanatory%20Notes12015?OpenDocument>.

**Detail of analysis:** Average annual indirectly age-standardised rate of potential years of life lost per 1,000 population (aged 0 to 74 years); and/or indirectly age-standardised ratio, based on the Australian standard.

**Source:** Data compiled by PHIDU from deaths data based on the 2015 to 2019 Cause of Death Unit Record Files supplied by the Australian Coordinating Registry and the Victorian Department of Justice, on behalf of the Registries of Births, Deaths and Marriages and the National Coronial Information System. The population is the ABS Estimated Resident Population (ERP) for Australia, 30 June 2015 to 30 June 2019.

## Use and provision of health and welfare services

### Health workforce, 2018

General Medical Practitioners, 2018

– by LGA, PHN, Remoteness

Specialist Practitioners (as reported, excluding GPs), 2018

– by LGA, PHN, Remoteness

Unknown/Not applicable Medical Practitioners, 2018

– by LGA, PHN, Remoteness

Total Medical Practitioners, 2018

– by LGA, PHN, Remoteness

Registered Nurses only, 2018

– by LGA, PHN, Remoteness

Registered Nurses who are also Midwives, 2018

– by LGA, PHN, Remoteness

Total Registered Nurses, 2018

– by LGA, PHN, Remoteness

Enrolled Nurses, 2018

– by LGA, PHN, Remoteness

Midwives (may also be a Registered Nurse or Enrolled Nurse), 2018

– by LGA, PHN, Remoteness

Total Nurses (Registered Nurses, Enrolled Nurses or Midwives, each person only counted once), 2018

– by LGA, PHN, Remoteness

Dentists, 2018

– by LGA, PHN, Remoteness

Total Dental Practitioners (includes Dentists, Oral health therapists, Dental hygienists, Dental therapists and Dental prosthetists), 2018

– by LGA, PHN, Remoteness

**Indicator detail:** The data presented are the number and rate of general, specialist and other medical practitioners, nurses and dental practitioners, as extracted from the National Health Workforce Data Set (NHWDS) [available from <https://hwd.health.gov.au/datatool.html>: last accessed 21 December 2020]. The NHWDS consists of de-identified registration and survey data for health practitioners from the fourteen health professions regulated by the Australian Health Practitioner Regulation Agency (AHPRA) under the National Registration and Accreditation Scheme (NRAS). Data are available by Primary Health Network (PHN) and Local Government Area (LGA).

**Source:** Compiled by PHIDU based on data from the National Health Workforce Dataset (NHWDS), 2018; and ABS Estimated Resident Population, 30 June 2018.

### Aged care places, June 2020

Residential aged care places, June 2020

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Indicator detail:** Residential aged care in Australia is subsidised by the Commonwealth Government and is governed by the Aged Care Act 1997 (the Act). A residential aged care facility (sometimes known as a nursing home) is for older people who can no longer live at home and need ongoing help with everyday tasks or health care. The data shown here are of the number of places in such facilities.

**Source:** Compiled by PHIDU based on data from GEN Aged Care Data, available from <https://www.gen-agedcaredata.gov.au/Resources/Access-data/2020/October/Aged-care-service-list-30-June-2020>, last accessed 21 September - 30 June 2020; and Australian Bureau of Statistics, Estimated Resident Population 30 June 2020.

## Hospital admissions, 2018/19

**Indicator detail:** The data presented are of the number of separations, or completions of the episode of care of a patient in hospital, where the completion can be the discharge, death or transfer of the patient, or a change in the type of care (e.g., from acute to rehabilitation). In this atlas the term 'admission' is used in place of the more technically correct term of 'separation'. As these data relate to short-term episodes of care, and not to long-stay episodes, the number of admissions is similar to the number of separations in any year.

Note that the data are based on the count of all admissions. As such, repeat admissions for one person are counted as separate admissions. In addition, patients admitted to one hospital and transferred to another hospital are also counted as separate admissions. The impact of these hospital transfers is likely to result in a higher rate of admissions of people living in regional areas compared to the capital cities, as well as for certain conditions which are more likely to result in transfers.

**Exclusions:** The national data published by the Australian Institute of Health and Welfare exclude well babies (i.e., babies not admitted for acute care) who are nine days older or less, other than the second or subsequent live born infant of a multiple birth whose mother is currently an admitted patient. (For further information see Australian Institute of Health and Welfare. Admitted patient care 2016-17: Australian hospital statistics. Health services series no. 84. (Cat. no. HSE 201) Canberra: AIHW; 2018.)

Same-day admissions for dialysis for kidney disease are presented separately and have been excluded from other admissions data, as they represent many repeat visits by a relatively small number of patients, who may have multiple admissions in a week: their inclusion can dramatically alter the geographic distribution of other categories of admissions (see the separate note for Same-day admissions for dialysis for renal dialysis, below, for further details). All other same-day admissions are included.

**Confidentiality of data:** Counts of less than five admissions have been suppressed.

Data were not provided to PHIDU by hospital type (i.e., separate data for public hospitals and private hospitals) in Queensland, Tasmania, the Northern Territory or the Australian Capital Territory. As a result, where data are published for 'public' and 'all hospitals' for other jurisdictions, only the 'all hospitals' data are available for these jurisdictions. The 'all hospitals' data in other jurisdictions have been confidentialised where publication of public and all hospitals data would allow identification of private hospital data due to small cell sizes. The decision was made to confidentialise the 'all hospitals' rather than the 'public hospitals' figures as admissions to public hospitals, which comprise the majority of admissions, both overall and from the most disadvantaged areas, were considered to be the most relevant in the context of this atlas.

The population health areas of 30057 Brisbane Inner - North - Central and 30051 Fortitude Valley/Spring Hill have been combined at the request of Queensland Health; data displayed is are the combination of values and rates for these areas.

**Detail of analysis:** Indirectly age-standardised rate per 100,000 (respective population); and/or indirectly age-standardised ratio, based on the Australian standard.

Note the following indicators are expressed as a rate per 100 live births;

- Admissions for certain conditions originating in the perinatal period, Persons - Public hospitals, All hospitals
- Admissions for a Caesarean section, females aged 15 to 44 years - Public hospitals, All hospitals

A standardised ratio (SR) provides a comparison to the Australian rate which is assigned a value of 100. Ratios below 100 are proportionally less than the national rate, while ratios above 100 are proportionally higher than the national rate. The SR is the ratio of the observed value to the expected value (the expected value is age-standardised).

**Source:** Compiled by PHIDU using data from the Australian Institute of Health and Welfare, supplied on behalf of State and Territory health departments for 2018/19; and the ABS Estimated Resident Population, 30 June 2018 and 30 June 2019.

## Admissions by hospital type and sex, 2018/19

Male total admissions (excluding dialysis) - Public hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female total admissions (excluding extracorporeal dialysis) - Public hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total admissions (excluding dialysis) - Public hospitals/ Private/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

## Hospital admissions by principal diagnosis and sex, 2018/19

Infectious and parasitic diseases, males/ females/ persons - Public hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

ICD-10-AM codes: A00-B99

All cancers, males/ females/ persons - Public hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** C00-D48

Endocrine, nutritional and metabolic diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** E00-E90

Diabetes, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** E10-E14.9

Mental health related conditions, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** F00-F99

Mood affective disorders, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** F30-F39

Nervous system diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** G00-G99

Eye and adnexa diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** H00-H59

Ear and mastoid process diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** H60-H95

Circulatory system diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** I00-I99

Ischaemic heart disease, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** I20-I25

Heart failure, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** I50

Stroke, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** I60-I64

Respiratory system diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** J00-J99

Asthma, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** J45-J46

Chronic Obstructive Pulmonary Disease (COPD), males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** J40-J44

Digestive system diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** K00-K93

Skin and subcutaneous tissue diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** L00-L99

Musculoskeletal system and connective tissue diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** M00-M99

Genitourinary system diseases, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** N00-N99

Chronic kidney disease, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 49.0, E10.2, E11.2, E13.2, E14.2, I12, I13, I15.0, I15.1, N00-N07, N08, N11, N12, N14, N15, N16, N18, N19, N25-N28, N39.1, N39.2, E85.1, D59.3, B52.0, Q60-Q63, T82.4, T86.1

Certain conditions originating in the perinatal period, persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** P00-P96

Congenital malformations, deformations and chromosomal abnormalities, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** Q00-Q99

Pregnancy, childbirth and the puerperium, females - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** O00-O99

Injury, poisoning and other external causes, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** S00-T98

## **Hospital admissions by principal diagnosis of injury and poisoning, by external cause and sex, 2018/19**

Transport crash injury, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** V00-V99

Accidental poisoning, persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** X40-X49

Falls, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** W00-W19

Injury due to exposure to inanimate mechanical forces, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** W20-W49

Injury due to exposure to animate mechanical forces, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** (W50-W64)

Intentional self-harm, males/ females/ persons - Public hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** X60-X84



Assault, males/ females/ persons - Public hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** X85-Y09

Other diagnosis of injury or poisoning, by external cause, males/ females - Public hospitals/ All hospitals – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** (W65-W74, X00-X19, and other reported external cause codes)

Other diagnosis of injury or poisoning, by external cause, persons - Public hospitals/ All hospitals – by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** W65-W74, and other reported external cause codes

## Hospital admissions by procedure, 2018/19

Tonsillectomy, all ages - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 41789-00, 41789-01, 41787-01 and/or 41786-01

Myringotomy, 0 to 9 years - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 41632-00 and/or 41632-00

Hysterectomy, females aged 30 to 59 years - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** Block 12688 or 1269 or a reported procedure code of 90450-00, 90450-01 and/or 90450-02

Caesarean section, females aged 15 to 44 years - Public hospitals/ Private hospitals/ All hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** Block 1340

Coronary artery bypass graft - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 38497-04, 38497-05, 38497-06, 38497-07, 38500-04, 38503-04, 90201-00, 90201-01, 90201-02, 90201-03, 38497-00, 38500-02, 38500-03, 38497-01, 38503-02, 38503-03, 38497-02, 38497-03, 38500-00, 38500-01, 38503-00, 38503-01, 38500-05 and/or 38503-05

Coronary angioplasty - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 38505-00, 38306-00, 38306-01, 38306-02, 38306-03, 38306-04, 38306-05, 38300-00, 38303-00, 38300-01, 38303-01, 38309-00, 38312-00, 38312-01, 38315-00, 38318-00 and/or 38318-01

Cardiac catheterisation - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 38200-00, 38218-01, 38203-00, 38218-00, 38206-00 and/or 38218-02

Hip fracture - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** M84.45, S72.00-S72.05, S72.08, S72.10-S72.11, S72.2

Knee replacement - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 49527-00, 49554-00, 49530-00, 49533-00, 49530-01, 49517-00, 49518-00, 49519-00, 49534-01, 49521-00, 49521-01, 49521-02, 49521-03, 49524-00 and/or 49524-01

Knee arthroscopy - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 49557-00, 49503-00, 49560-03, 49562-01, 49561-01 and/or 49557-02

Fibre optic colonoscopy - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 32090-00, 32084-00, 32084-02 and/or 32090-02

Fibre optic colonoscopy with excision - Public hospitals/ Private hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**ICD-10-AM codes:** 32090-01, 32093-00, 32087-00 and/or 32084-01

## Same-day admissions for renal dialysis, 2018/19

Same-day dialysis for kidney disease - Public hospitals/ All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Same-day dialysis for kidney disease - All hospitals  
– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

**Additional indicator detail:** The data presented are of the number of same-day admissions for dialysis for kidney disease, including both haemodialysis and peritoneal dialysis, International Classification of Disease (ICD-10-AM) codes Z49.1 and Z49.2. There are two main types of dialysis: peritoneal, which occurs inside the body and can be performed almost anywhere, usually in the home setting; and haemodialysis, which occurs outside the body and is most often conducted in a hospital or satellite setting. The reason for presenting these data separately from overnight admissions is that they represent many repeat visits by a relatively small number of patients, who may have multiple admissions in a week. Their inclusion with other (overnight) admissions can dramatically alter the geographic distribution of these other categories of admissions. This is particularly evident in regional and remote areas, where dialysis facilities are located, and where those using them may have moved to live to be near the facility.

**Confidentiality of data:** Counts of fewer than five admissions have been suppressed.

Data were not provided to PHIDU by hospital type (i.e., separate data for public hospitals and private hospitals) in Queensland, Tasmania, the Northern Territory or the Australian Capital Territory. As a result, where data are published for 'public' and 'all hospitals' for other jurisdictions, only the 'all hospitals' data are available for these jurisdictions. The 'all hospitals' data in other jurisdictions have been confidentialised where publication of public and all hospitals data would allow identification of private hospital data due to small cell sizes. The decision was made to confidentialise the 'all hospitals' rather than the 'public hospitals' figures as admissions to public hospitals, which comprise the majority of admissions, both overall and from the most disadvantaged areas, were considered to be the most relevant in the context of this atlas.

The population health areas of 30057 Brisbane Inner - North - Central and 30051 Fortitude Valley/Spring Hill have been combined at the request of Queensland Health; data displayed is are the combination of values and rates for these areas.

**Detail of analysis:** Indirectly age-standardised rate per 100,000 population; and/or indirectly age-standardised ratio, based on the Australian standard. A standardised ratio (SR) provides a comparison to the Australian rate which is assigned a value of 100. Ratios below 100 are proportionally less than the national rate, while ratios above 100 are proportionally higher than the national rate. The SR is the ratio of the observed value to the expected value (the expected value is age-standardised).

**Source:** Compiled by PHIDU using data from the Australian Institute of Health and Welfare, supplied on behalf of State and Territory health departments for 2018/19; and the ABS Estimated Resident Population, 30 June 2018 and 30 June 2019.

## Potentially preventable hospitalisations, 2018/19

**Additional indicator detail:** Data definitions for potentially preventable hospitalisations are in *the National Healthcare Agreement: PI 18-Selected potentially preventable hospitalisations, 2017* available through METeOR ([METeOR ID: 630028](#)).

**Confidentiality of data:** Counts of fewer than five admissions have been suppressed.

Data were not provided to PHIDU by hospital type (i.e., separate data for public hospitals and private hospitals) in Queensland, Tasmania, the Northern Territory or the Australian Capital Territory. As a result, where data are published for 'public' and 'all hospitals' for other jurisdictions, only the 'all hospitals' data are available for these jurisdictions. The 'all hospitals' data in other jurisdictions have been confidentialised where publication of public and all hospitals data would allow identification of private hospital data due to small cell sizes. The decision was made to confidentialise the 'all hospitals' rather than the 'public hospitals' figures as admissions to public hospitals, which comprise the majority of admissions, both overall and from the most disadvantaged areas, were considered to be the most relevant in the context of this atlas.

The population health areas of 30057 Brisbane Inner - North - Central and 30051 Fortitude Valley/Spring Hill have been combined at the request of Queensland Health; data displayed is are the combination of values and rates for these areas.

**Detail of analysis:** Indirectly age-standardised rate per 100,000 population; and/or indirectly age-standardised ratio, based on the Australian standard. A standardised ratio (SR) provides a comparison to the Australian rate which is assigned a value of 100. Ratios below 100 are proportionally less than the national rate, while ratios above 100 are proportionally higher than the national rate. The SR is the ratio of the observed value to the expected value (the expected value is age-standardised).

**Source:** Compiled by PHIDU using data from the Australian Institute of Health and Welfare, supplied on behalf of State and Territory health departments for 2018/19; and the ABS Estimated Resident Population, 30 June 2018 and 30 June 2019.

## All potentially preventable hospitalisations – by broad age groups, 2018/19

Potentially preventable conditions, aged 0-14, 15-24, 25-44, 45-64, 65+, 15+years - Public hospitals

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Potentially preventable conditions, aged 0-14, 15-24, 25-44, 45-64, 65+, 15+years - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Potentially preventable conditions - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Potentially preventable conditions - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

### **Potentially preventable hospitalisations - Vaccine-preventable, 2018/19**

Vaccine preventable conditions - pneumonia and influenza - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Vaccine preventable conditions - pneumonia and influenza - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Vaccine preventable conditions - other - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Vaccine preventable conditions - other - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Total vaccine preventable conditions - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Total vaccine preventable conditions - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

### **Potentially preventable hospitalisations – Acute conditions, 2018/19**

Acute cellulitis - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute cellulitis - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute convulsions and epilepsy - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute convulsions and epilepsy - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute dental conditions - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute dental conditions - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute ear, nose and throat infections - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute ear, nose and throat infections - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute urinary tract infections, including pyelonephritis - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Acute urinary tract infections, including pyelonephritis - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Other acute conditions - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Other acute conditions - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Total acute conditions - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Total acute conditions - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

## Potentially preventable hospitalisations – Chronic conditions, 2018/19

Chronic angina - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Chronic angina - All hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

Chronic asthma - Public hospitals

– by PHA, LGA, PHN, *Quintiles, Quintiles within PHNs, Remoteness*

## Emergency department presentations, 2018/19

**Indicator detail:** The data include presentations to EDs between 1 July 2018 and 30 June 2019. The data presented are sourced from the AIHW's National Non-admitted Patient Emergency Department Care Database (NNAPEDCD), which is based on the Non-admitted Patient Emergency Department Care (NAPEDC) National Minimum Data Set/National Best Endeavours Data Set (NMDS/NBEDS). The NNAPEDCD provides information on the care provided for non-admitted patients registered for care in EDs in public hospitals where the ED meets the following criteria:

- a purposely designed and equipped area with designated assessment, treatment, and resuscitation areas
- the ability to provide resuscitation, stabilisation, and initial management of all emergencies
- availability of medical staff in the hospital 24 hours a day
- designated emergency department nursing staff 24 hours per day 7 days per week, and a designated emergency department nursing unit manager.

Emergency departments (including 'accident and emergency' or 'urgent care centres') that do not meet the criteria above are not in scope for the NMDS, but data may have been provided for some of these by some states and territories

The coverage of the NNAPEDCD was considered complete for public hospitals which meet the above criteria. The collection does not include all emergency services provided in Australia; for example, emergency service activity provided by private hospitals, or by public hospitals which do not have an ED that meets the above criteria are excluded. This should be taken into account, particularly when comparing data between urban and regional areas, or by Remoteness Area. States and territories provided Emergency Department diagnosis information in several classifications, including SNOMED CT-AU, International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM); and various editions of ICD-10-AM. For the purpose of reporting principal diagnoses, the AIHW mapped the provided information to ICD-10-AM 10th edition codes, where necessary.

Counts of fewer than five admissions have been suppressed to meet data confidentiality requirements.

The population health areas of 30057 Brisbane Inner - North - Central and 30051 Fortitude Valley/Spring Hill have been combined at the request of Queensland Health; data displayed is are the combination of values and rates for these areas.

### Chapter ICD-10-AM definitions:

Any of the reported principal diagnosis as per the below:

- A00–B99 (Certain infectious and parasitic diseases)
- F00–F99 (Mental and behavioural disorders)
- I00–I99 (Diseases of the circulatory system)
- J00–J99 (Diseases of the respiratory system)
- K00–K93 (Diseases of the digestive system)
- M00–M99 (Diseases of the musculoskeletal system and connective tissue)
- N00–N99 (Diseases of the genitourinary system)
- S00–T98 (Injury, poisoning and certain other consequences of external causes)
- Z00–Z99 (Factors influencing health status and contact with health services).
- C00–D48, D50–D89, E00–E90, G00–G99, H00–H59, H60–H95, L00–L99, O00–O99, P00–P96, Q00–Q99, R00–R99, U50–Y98 (Other).

**Detail of analysis:** Indirectly age-standardised rate per 100,000 population; and/or indirectly age-standardised ratio, based on the Australian standard. A standardised ratio (SR) provides a comparison to the Australian rate which is assigned a value of 100. Ratios below 100 are proportionally less than the national rate, while ratios above 100 are proportionally higher than the national rate. The SR is the ratio of the observed value to the expected value (the expected value is age-standardised).



**Source:** Compiled by PHIDU using data from the Australian Institute of Health and Welfare, supplied on behalf of State and Territory health departments for 2018/19; and the average of the ABS Estimated Resident Population, 30 June 2018 and 2019.

### **Emergency department presentations, by sex, 2018/19**

Male presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations, by age and sex, 2018/19**

Male presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations, by triage category, 2018/19**

Resuscitation presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Emergency presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Urgent presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Semi-urgent presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Non-urgent presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations, by principal diagnosis, 2018/19**

Total presentations for certain infectious and parasitic diseases, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for mental and behavioural disorders, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for diseases of the circulatory system, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for diseases of the respiratory system, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for diseases of the digestive system, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for diseases of the musculoskeletal system and connective tissue, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for diseases of the genitourinary system, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness



Total presentations for injury, poisoning and certain other consequences of external causes, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for factors influencing health status and contact with health services, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations for other diseases/ conditions, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for certain infectious and parasitic diseases, by age and sex, 2018/19**

Male presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for mental and behavioural disorders, by age and sex, 2018/19**

Male presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for diseases of the circulatory system, by age and sex, 2018/19**

Male presentations, by broad age group (0-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for diseases of the respiratory system, by age and sex, 2018/19**

Male presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for diseases of the digestive system, by age, 2018/19**

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for diseases of the musculoskeletal system and connective tissue, by age, 2018/19**

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for diseases of the genitourinary system, by age and sex, 2018/19**

Male presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for injury, poisoning and certain other consequences of external causes, by age and sex, 2018/19**

Male presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Female presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for factors influencing health status and contact with health services, by age, 2018/19**

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness

### **Emergency department presentations for other diseases/ conditions, by age, 2018/19**

Total presentations, by broad age group (0-4, 5-14, 15-24, 25-44, 45-64, 65-74 and 75+ years), 2018/19

– by PHA, LGA, PHN, Quintiles, Quintiles within PHNs, Remoteness