

Australian Atlas of Healthcare Variation 2018: Number of PBS/RPBS prescriptions dispensed for antipsychotic medicines per 100,000 people, 2013-14, 2014-15, 2015-16 and 2016-17 (i) Age 17 years & under, (ii) Age 18 - 64 years, (iii) Age 65 years & over

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Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	Antipsychotic medicines dispensing, (i) 17 years and under, (ii) 18 to 64 years, (iii) 65 years and over, 2013-14, 2014-15, 2015-16 and 2016-17
METEOR identifier:	709504
Registration status:	Australian Commission on Safety and Quality in Health Care, Standard 13/12/2018
Description:	Number of PBS/RPBS prescriptions dispensed for antipsychotic medicines per 100,000 people, aged (i) 17 years and under, (ii) 18 to 64 years, (iii) 65 years and over, age-sex standardised.
Indicator set:	Australian Atlas of Healthcare Variation 2018 Australian Commission on Safety and Quality in Health Care, Standard 13/12/2018

Collection and usage attributes

Population group age from:	(i) 17 years and under
	(ii) 18 to 64 years
	(iii) 65 years and over
Computation description:	Inclusion codes, description and additional requirements

Anatomical Therapeutic Chemical (ATC) Code	Description (Drug Name)	PBS code (Item Code)	Comments
N05A	AMISULPRIDE	08594H, 08595J, 08596K, 08736T	
	ARIPIRAZOLE	08717T, 08718W, 08719X, 08720Y, 10219W, 10224D	10219W, 10224D (Listed from 1 Mar 2015 onwards)
	ASENAPINE	05140M, 05141N	
	CHLORPROMAZINE	01195X, 01196Y, 01197B, 01199D, 01201F, 03455W	

CLOZAPINE	05626D, 05627E, 05628F, 05629G, 05630H, 06101D, 06102E, 06417R, 06418T, 09632Y, 10288L, 10289M, 10302F, 10341G, 10358E	10288L, 10289M, 10302F, 10341G, 10358E (Listed from 1 Jul 2015 onwards)
FLUPENTHIXOL DECANOATE	02255Q, 02257T, 01001Q, 01046C, 03098C	01001Q, 01046C, 03098C (Listed 1 Aug 1991 – 31 May 2017)
HALOPERIDOL	02761H, 02763K, 02767P, 02768Q, 02770T, 03456X	
HALOPERIDOL DECANOATE	02765M, 02766N	
LURASIDONE	10526B, 10529E	Not included in the specifications used for the Atlas 2015. Listed from 1 Nov 2015 onwards.
OLANZAPINE	01024X, 01037N, 01041T, 01042W, 03381Y, 03382B, 03384D, 03385E, 08170B, 08185T, 08186W, 08187X, 08433W, 08434X, 08952E, 08953F, 09294E, 09295F, 09303P	

PALIPERIDONE	05100K, 05102M, 05103N, 05107T, 05109X, 09140C, 09141D, 09142E, 11066K, 11072R, 11085K, 11094X	11066K, 11072R, 11085K, 11094X (Listed from 1 Apr 2017 onwards)
PERICYAZINE	03052P, 03053Q	Not included in the specifications used for the Atlas 2015
QUETIAPINE	05458G, 08456C, 08457D, 08458E, 08580N, 09202H, 09203J, 09204K, 09205L	
RISPERIDONE	01842Y, 01846E, 03169T, 03170W, 03171X, 03172Y, 08100H, 08780D, 08781E, 08782F, 08787L, 08788M, 08789N, 08790P, 08792R, 08794W, 08869T, 08870W, 09075P, 09076Q, 09079W, 09080X, 09293D	08788M, 08790P, 08792R, 08794W, 08870W, 09075P, 09076Q, 09080X (Delisted after 30 Apr 2016)
TRIFLUOPERAZINE	02185B, 02186C, 02386N	
ZIPRASIDONE	09070J, 09071K, 09072L, 09073M	
ZUCLOPENTHIXOL DECANOATE	08097E	

1. number of prescriptions per 100,000 people
2. number of patients per 100,000 people
3. number of defined daily doses (DDD) per 1,000 people per day

Rates are directly age-sex standardised, to the 2001 Australian population, aged (i) 17 years and under, using 5-year age groups: 0-4, 5-9, 10-14 and 15-17, (ii) 18 to 64 years, using 5-year age groups: 18-24, 25-29, ... , 55-59 and 60-64, (iii) 65 years and over, using 5-year age groups: 65-69, 70-74, ... , 80-84, 85 and over.

For more information about age-standardisation in general see </content/index.phtml/itemId/327276>

A patient's age is calculated in years as the difference between the patient's date of birth and date of supply for the prescription. Date of birth and sex are as reported on a patient's last prescription for any drug, extracted on 18/04/2018.

Prescriptions are allocated to a financial year based on the date the medicine was supplied to the patient. For example for 2016–17, the date of supply is between 1 July 2016 and 30 June 2017.

Analysis by Statistical Area Level 3 (SA3) 2016 is based on the patient's enrolment postcode as last reported by the patient to Medicare, valid at date of supply.

Suppress data (number and rate) if at least one of the following conditions are met:

- the total denominator is less than 1,000
- the total numerator is less than 20.

Age-sex standardised rates are also suppressed where the denominator for at least one of the age-sex groups used to calculate the rate is below 30 and results of sensitivity analysis indicate that the rates are volatile. However, for SA3 data, if the volatility of the rate is not found to have a material impact on its decile, the rate is published with caution. For more information about the sensitivity analysis, see the [Technical supplement of the Third Atlas](#).

Computation:

(a), (b) $[\text{Numerator} \div \text{Denominator}] \times 100,000$

(c) $([\text{Numerator} \times 1,000] \div [\text{Denominator} \times 365])$

Numerator:

For 2013-14, 2014-15, 2015-16 and 2016-17:

1. Number of antipsychotic prescriptions dispensed, (i) 17 years and under, (ii) 18 to 64 years, (iii) 65 years and over
2. Number of patients dispensed at least one antipsychotic prescription, (i) 17 years and under, (ii) 18 to 64 years, (iii) 65 years and over
3. Number of DDD of antipsychotic medicines dispensed [mass amount x quantity dispensed ÷ DDD amount], (i) 17 years and under, (ii) 18 to 64 years, (iii) 65 years and over

Numerator data elements:

Data Element / Data Set

Pharmaceutical Benefits Scheme (PBS) prescription—mass amount, N(14.5)
 PBS and RPBS data 2013-14, 2014-15, 2015-16 and 2016-17 extracted on 30/04/2018

Data Element / Data Set

Pharmaceutical Benefits Scheme (PBS) prescription—Anatomical Therapeutic Chemical (ATC) code, ANN(AANN)

PBS and RPBS data 2013-14, 2014-15, 2015-16 and 2016-17 extracted on 30/04/2018

Data Element / Data Set

Data Element / Data Set

Defined daily dose amount, N(3.3)

Data Source

WHO Collaborating Centre for Drug Statistics Methodology

Data Element / Data Set

[Person—date of birth, DDMMYYYY](#)

Data Element / Data Set

[Pharmaceutical Benefits Scheme \(PBS\) prescription—PBS item prescribed, code NN\[NNN\]A](#)

Data Element / Data Set

[Pharmaceutical Benefits Scheme \(PBS\) prescription—patient identifier, identifier N\(9\)](#)

Data Element / Data Set

[Pharmaceutical Benefits Scheme \(PBS\) prescription—quantity of PBS item supplied, total number N\[NNN\]](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—sex, code A](#)

Data Element / Data Set

[Pharmaceutical Benefits Scheme \(PBS\) prescription—date of supply, DDMMYYYY](#)

Denominator:

As at 30 June 2013, 2014, 2015 and 2016:

(a), (b), (c) Total population, aged (i) 17 years and under, (ii) 18 to 64 years, (iii) 65 years and over

Denominator data elements:**Data Element / Data Set**

[Person—estimated resident population of Australia, total people N\[N\(7\)\]](#)

Data Source

[ABS Australian Demographic Statistics](#)

Guide for use

Data source type: Census based plus administrative by-product data

Disaggregation:

Data are disaggregated by individual year.

(a) SA3 2016 by:

- remoteness (ASGS Remoteness structure 2016) and Socio-Economic Indexes for Areas (SEIFA 2016) Index of Relative Socioeconomic Disadvantage (IRSD 2016)

Primary Health Network (PHN) 2017

State and territory by:

- age group (17 years and under, 18 to 64 years, 65 years and over)
- prescriber type (GP, psychiatrist and other)

(b) State and territory

(c) State and territory

Disaggregation data elements:

Data Element / Data Set

Address—statistical area, level 3 (SA3) code (ASGS 2016) NNNNN

Data Element / Data Set

[Person—date of birth, DDMMYYYY](#)

Data Element / Data Set

[Pharmaceutical Benefits Scheme \(PBS\) prescription—specialty of prescriber, subspecialty code NNNNNN](#)

Guide for use

GPO postcodes 2001, 2124, 3001, 4001, 5001, 6843 excluded from the SA3 analysis but included in state/territory and national level analysis.

Data source type: Administrative by-product data

Used for disaggregation by Statistical Area Level 3.

Data Element / Data Set

[Address—Australian postcode, code \(Postcode datafile\) NNNN](#)

Representational attributes

Representation class: Rate
Data type: Integer
Unit of measure: Service event
Format: (a) Prescribing event (b) Person (c) Defined Daily Dose
NN[NNNN]

Data source attributes

Data sources:

Data Source

[ABS Australian Demographic Statistics](#)

Frequency

Quarterly

Data custodian

Australian Bureau of Statistics

Accountability attributes

Methodology: Statistical Area Level 3 (SA3s) are geographic areas defined in the ABS Australian Statistical Geography Standard (ASGS). The aim of SA3s is to create a standard framework for the analysis of ABS data at the regional level through clustering groups of SA2s that have similar regional characteristics. There are 340 spatial SA3s covering the whole of Australia without gaps or overlaps. They are designed to provide a regional breakdown of Australia. SA3s generally have a population of between 30,000 and 130,000 people. There are approximately 78 with fewer than 30,000 people and 46 with more than 130,000 as at 30 June 2016. The Other Territories of Jervis Bay, Cocos (Keeling) Islands, Christmas Island and Norfolk Island are each represented by a SA3 in the 2016 ASGS. For further information see the ABS publication, Population by Age and Sex, Regions of Australia, 2016. ABS. cat. no. 3235.0.

The Anatomical Therapeutic Chemical (ATC) code is recommended by the World Health Organization (WHO) as an internationally accepted classification for presenting and comparing drug usage data. Since 1982, the WHO Collaborating Centre for Drug Statistics Methodology (WHOC), located in Norway, has been the central body responsible for coordinating ATC use. Note that the ATC codes used in this specification are from the Australian Department of Health's version of the WHO ATC classifications, which have some minor differences from the WHO version, based upon a particular drug's usage in Australia. The Department of Health's ATC version is available at <http://www.pbs.gov.au/browse/body-system>.

Further information on DDD/1,000/day is available at http://www.who.int/medicines/regulation/medicines-safety/toolkit_indicators/en/index1.html.

DDD amounts are available at https://www.whocc.no/atc_ddd_index/

Reporting requirements: Australian Commission on Safety and Quality in Health Care
The Third Australian Atlas of Healthcare Variation 2018

Organisation responsible for providing data: The Australian Institute of Health and Welfare

Accountability: Australian Commission on Safety and Quality in Health Care

Release date: 11/12/2018

Source and reference attributes

Submitting organisation: Australian Commission on Safety and Quality in Health Care