

Number of PBS/RPBS prescriptions dispensed for antipsychotic medicines per 100,000 people, aged 65 years and over, 2016–17 to 2020–21

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Number of PBS/RPBS prescriptions dispensed for antipsychotic medicines per 100,000 people, aged 65 years and over, 2016–17 to 2020–21

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	Antipsychotic medicines dispensing, 65 years and over, 2016–17 to 2020–21
METEOR identifier:	752714
Registration status:	Australian Commission on Safety and Quality in Health Care , Standard 15/09/2022
Description:	Number of PBS/RPBS prescriptions dispensed for antipsychotic medicines per 100,000 people, aged 65 years and over, age-sex standardised.
Indicator set:	Australian Atlas of Healthcare Variation: Time Series Australian Commission on Safety and Quality in Health Care , Standard 15/09/2022

Collection and usage attributes

Population group age from: 65 years and over

Computation description: **Inclusion codes, description and additional requirements**

PBS medicine items for this indicator were extracted according to the Anatomical Therapeutic Chemical (ATC) codes listed in column 1 and based on the indicator developed for the *First Australian Atlas of Healthcare Variation*. Column 3 lists all the PBS item codes that were listed over all or part of the reporting period (2016–17 to 2020–2021), which map to the ATC codes. Column 4 provides details of new or deleted PBS codes over the reporting period, and identifies those codes that are listed in the palliative care, dental or RPBS only schedules. Doctor's bag codes do not have patient details recorded and hence are excluded from the analysis.

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	
	ASENAPINE	05140M	
		05141N	
	BREXPIRAZOLE	11184P	Listed 1 Oct 2017

	11188W	Listed 1 Oct 2017
	11189X	Listed 1 Oct 2017
	11190Y	Listed 1 Oct 2017
CHLORPROMAZINE	01195X	
	01196Y	
	01197B	
	01199D	
	01201F	
CLOZAPINE	05626D	
	05627E	
	05628F	
	05629G	
	05630H	
	06101D	
	06102E	
	06417R	
	06418T	
	09632Y	
	10288L	
	10289M	
	10302F	
	10341G	
	10358E	
	11415T	Listed 1 Aug 2018
	11422E	Listed 1 Aug 2018
	11433R	Listed 1 Aug 2018
FLUPENTIXOL DECANOATE	02255Q	
	02257T	
FLUPHENAZINE DECANOATE	01001Q	Delisted 1 Jun 2017
	01046C	Delisted 1 Jun 2017
	03098C	Delisted 1 Jun 2017
HALOPERIDOL	02761H	
	02763K	
	02767P	
	02768Q	
	02770T	
	12159X	Palliative care item. Listed 1 Jun 2021
HALOPERIDOL DECANOATE	02765M	
	02766N	
LURASIDONE	10526B	
	10529E	
OLANZAPINE	01024X	Delisted 1 Jun 2018

01037N	Delisted 1 May 2019
01041T	Delisted 1 Dec 2019
01042W	Delisted 1 May 2019
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
	Listed 1 Apr 2017
	11072R
	Listed 1 Apr 2017
	11085K
PERICIAZINE	Listed 1 Apr 2017
	11094X
	Listed 1 Apr 2017
QUETIAPINE	03052P
	03053Q
	11413Q
	Listed 1 Aug 2018
QUETIAPINE	11427K
	Listed 1 Aug 2018
	05458G
	08456C
	08457D
	08458E
	08580N
	09202H
	09203J
QUETIAPINE	09204K
	09205L

01846E	
03169T	
03170W	
03171X	
03172Y	
08100H	
08780D	
08781E	
08782F	
08787L	
08789N	
08869T	
09079W	
09293D	
11869Q	Listed 1 Jan 2020
11872W	Listed 1 Jan 2020
11873X	Listed 1 Jan 2020
11874Y	Listed 1 Jan 2020
11877D	Listed 1 Jan 2020
11879F	Listed 1 Jan 2020
11881H	Listed 1 Jan 2020
11882J	Listed 1 Jan 2020
01842Y	
01846E	
03169T	
03170W	
03171X	
03172Y	
08100H	
08780D	
08781E	
08782F	
08787L	
08789N	
08869T	
09079W	
09293D	
11869Q	Listed 01 Jan 2020
11872W	Listed 01 Jan 2020
11873X	Listed 01 Jan 2020
11874Y	Listed 01 Jan 2020
11877D	Listed 01 Jan 2020
11879F	Listed 01 Jan 2020

		11881	Listed 01 Jan 2020
		11882J	Listed 01 Jan 2020
	TRIFLUOPERAZINE	02185B	Delisted 1 Apr 2018
		02186C	Delisted 1 Apr 2018
		02386N	Delisted 1 Apr 2018
	ZIPRASIDONE	09070J	
		09071K	
		09072L	
		09073M	
	ZUCLOPENTHIXOL DECANOATE	08097E	

PBS/RPBS records consistent with the intent of this indicator are identified as antipsychotic medicines based on the listed Anatomical Therapeutic Chemical (ATC) codes, not PBS item codes. PBS items captured under the same ATC codes may change over time as drugs are added or removed. Therefore PBS item codes listed are indicative of the complete set of PBS/RPBS items captured in the data extract at the time of analysis.

Data extraction for antipsychotic medicines dispensing was performed on 12 October 2021.

Presented as the following rates:

- (a) number of prescriptions per 100,000 people
- (b) number of patients per 100,000 people
- (c) number of defined daily doses (DDD) per 1,000 people per day

Rates are directly age-sex standardised, to the 2001 Australian population, aged 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 12 October 2021.

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 2016–17, 2017–18, 2018–19, 2019–20 and 2020–21:

(a) Number of antipsychotic prescriptions dispensed, 65 years and over

(b) Number of patients dispensed at least one antipsychotic prescription, 65 years and over

(c) Number of DDD of antipsychotic medicines dispensed [mass amount x quantity dispensed ÷ DDD amount], 65 years and over

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

Defined daily dose amount, N(3.3)

Data Source

WHO Collaborating Centre for Drug Statistics Methodology

Data Element / Data Set

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

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set**Data Element**

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

PBS and RPBS data 2016–17, 2017–18, 2018–19 and 2019–20, 2020–21 extracted on 12 October 2021.

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set**Data Element**

Pharmaceutical Benefits Scheme (PBS) prescription—mass amount, N(14.5)

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

PBS and RPBS data 2016–17, 2017–18, 2018–19, 2019–20 and 2020–21 extracted on 12 October 2021.

Data source type: Administrative by-product data

Data Element / Data Set

Data Element

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

PBS and RPBS data 2016–17, 2017–18, 2018–19, 2019–20 and 2020–21 extracted on 12 October 2021.

Data Source

[Repatriation Pharmaceutical Benefits Scheme \(RPBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—date of birth, DDMMYYYY](#)

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

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

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

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

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

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

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—sex, code A](#)

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

Data source type: Administrative by-product data

Denominator:

As at 30 June 2016, 2017, 2018, 2019 and 2020:

(a), (b), (c) Total population, aged 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 Estimated resident population \(2016 Census-based\)](#)

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 65 years and over
- prescriber type (GP, Psychiatrist, Geriatrician and other professionals)

(b) State and territory

(c) State and territory

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

[Person—date of birth, DDMMYYYY](#)

Data Source

[ABS Estimated resident population \(2016 Census-based\)](#)

Data Element / Data Set

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

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Guide for use

GPO postcodes 2001, 2124, 3001, 4001, 5001, 6843, 7001 excluded from the SA3 and PHN 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

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

Data Source

[Repatriation Pharmaceutical Benefits Scheme \(RPBS\) data](#)

Guide for use

GPO postcodes 2001, 2124, 3001, 4001, 5001, 6843, 7001 excluded from the SA3 and PHN 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](#)

Guide for use

GPO postcodes 2001, 2124, 3001, 4001, 5001, 6843, 7001 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](#)

Data Source

[ABS Estimated resident population \(2016 Census-based\)](#)

Data Element / Data Set

[Person—area of usual residence, statistical area level 3 \(SA3\) code \(ASGS 2016\) N\(5\)](#)

Data Source

[ABS Estimated resident population \(2016 Census-based\)](#)

Comments:

In previous versions of the Atlas of Healthcare Variation, postcode 7001 Hobart PO Boxes has been mapped by the ABS to SA3 of either Hobart Inner or Central Highlands. Consistent with the treatment of other capital city PO Boxes, postcode 7001 has now been excluded from the SA3 and PHN level analysis but included in state/territory and national level analysis. This will result in a decrease in script volume for either Hobart Inner or Central Highlands from numbers reported in earlier versions.

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 Estimated resident population \(2016 Census-based\)](#)

Frequency

Quarterly

Data custodian

Australian Bureau of Statistics

Data Source

[Pharmaceutical Benefits Scheme \(PBS\) data](#)

Frequency

Daily

Data custodian

Australian Government Department of Health

Data Source

[Repatriation Pharmaceutical Benefits Scheme \(RPBS\) data](#)

Frequency

Daily

Data custodian

Australian Government Department of Health

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, [1270.0.55.001 - Australian Statistical Geography Standard \(ASGS\): Volume 1 - Main Structure and Greater Capital City Statistical Areas, July 2016](#).

Estimates of the resident population (ERP) by SA3 reflect figures released with [Regional population by age and sex, 2020 | Australian Bureau of Statistics \(abs.gov.au\)](#). The status of annual sub-state ERPs changes over time, from preliminary to revised to final, as new component data becomes available at the state level. ERPs by SA3 are final for 30 June 2016, revised for 30 June 2017 to 30 June 2019 and preliminary for 30 June 2020. Further information about the methodology used to produce ERPs by SA3 is available at [Regional population by age and sex methodology, 2020 | Australian Bureau of Statistics \(abs.gov.au\)](#)

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 https://www.whocc.no/use_of_atc_ddd/

Reporting requirements:

DDD amounts are available at https://www.whocc.no/atc_ddd_index/
Australian Commission on Safety and Quality in Health Care

The Australian Atlas of Healthcare Variation Time Series: Antipsychotic medicines dispensing, 65 years and over, 2016–17 to 2020–2021

Organisation responsible for providing data:

The Australian Institute of Health and Welfare

Accountability:

Australian Commission on Safety and Quality in Health Care

Release date:

21/09/2022

Source and reference attributes

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

Relational attributes**Related metadata references:**

See also [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](#)
[Australian Commission on Safety and Quality in Health Care](#), Standard 13/12/2018