The Registry of Senior Australians (ROSA) Research Centre
South Australian Health and Medical Research Institute
PO Box 11060
Adelaide, South Australia 5001
Ph: +61 8 8128 4662
E: ROSA@sahmri.com

Indicator: Antibiotic Use

Indicator Definition

Proportion of residents dispensed an antibiotic

Indicator Specification

Numerator data source

PBS

Numerator

Number of permanent residents dispensed least one antibiotic for systemic use (Table 1)

Table 1. Antibiotics for systemic use, descriptions, ATC codes, and PBS codes

Description	ATC Code	PBS Code
Omeprazole + Clarithromycin + Amoxycillin	A02BD05	08272J, 08376W
Esomeprazole + Clarithromycin + Amoxicillin	A02BD06	08738X, 10759G
Vancomycin	A07AA09	03114X, 03113W
Rifaximin	A07AA11	10001J
Doxycycline	J01AA02	01800R, 02702F, 02703G, 02708M, 02709N, 02714W, 02715X, 03321T, 03322W, 05082L, 09105F, 09107H, 09108J, 10176N, 10777F, 10779H, 10781K, 02707L, 02711Q, 09106G
Tetracycline Hydrochloride	J01AA07	02134H, 02135J, 03383C,02145X, 02146Y, 03386F
Minocycline	J01AA08	03037W 01616C
Ampicillin	J01CA01	02671N, 05014X
		02977Q, 03314K, 06531R, 06533W, 06536B, 01048E, 02390T, 06527M
Amoxicillin	J01CA04	05225B, 08705E
		01887H, 03393N
		01878W, 03309E
		01886G, 03302T
		08581P
		01889K, 03300Q
		01883D, 01884E, 03301R
		03303W
		01888J
		09714G, 11947T, 11998L, 12002Q 13182T, 13184X, 03310F
Benzylpenicillin	J01CE01	02647H, 06569R, 06572X, 01775K, 03398W, 06561H, 06563K, 06564L, 06566N
Phenoxymethylpenicillin	J01CE02	05029Q, 08977L, 08976K 02965C, 03028J, 03361X, 03364C 01703P, 01705R, 01787C, 01789E, 03360W, 03363B
Benzathine Benzylpenicillin	J01CE08	05027N, 11723B

The Registry of Senior Australians (ROSA) Research Centre
South Australian Health and Medical Research Institute
PO Box 11060
Adelaide, South Australia 5001
Ph: +61 8 8128 4662
E: ROSA@sahmri.com

Procaine Benzylpenicillin	J01CE09	01794K, 03371K
Benzathine Phenoxymethylpenicillin	J01CE10	02354X, 02356B, 03365D, 03366E, 09143F, 05012T
Dicloxacillin	J01CF01	07064T, 07065W, 07067Y, 08124N 05097G, 07061P, 08122L, 08123M, 10790X, 05096F, 08121K
Flucloxacillin	J01CF05	01529L, 09150N, 01528K, 09149M, 01525G, 06729E, 06731G, 06732H, 06734K, 10605E, 01524F, 01527J, 05091Y, 06723W, 06725Y, 06728D, 07018J, 10788T, 01526H, 05090X, 11737R, 11738T, 11746F
Amoxicillin + Clavulanic Acid	J01CR02	05011R
		08319W
		01892N, 05009P
		05006L, 08254K
		01891M, 05008N
		13179P, 13190F, 13194K, 13728M, 11933C, 11941L
Ticarcillin + Clavulanic Acid	J01CR03	02179Q, 10113G, 06879C, 06881E, 06884H
Cefalexin	J01DB01	03095X, 03320R,03094W, 03319Q, 03119E, 03318P, 10778G, 02655R, 03058Y, 03317N, 11934D, 11963P, 13285F
Cefalotin	J01DB03	02964B, 03376Q, 06609W, 06611Y, 06614D
Cefazolin	J01DB04	05479J, 09326W
		01257E, 01797N, 01799Q, 05478H, 06633D, 06635F, 06638J
		01256D, 05477G, 06629X
		12115P, 12118T, 13079H, 13080K
Cefuroxime	J01DC02	05499K, 05052X, 08292K
		11192C, 11227X, 11228Y, 13643C
Cefaclor	J01DC04	02461M, 02460L, 01169M, 05045M, 05047P, 11169W
Cefotaxime	J01DD01	06591X, 06592Y, 06597F, 06598G
		01086E, 01759N, 06599H, 06602L, 06600J
		01085D, 01758M, 06593B, 06596E, 05048Q,06594C
Ceftriaxone	J01DD04	06855T, 06861D, 06862E, 06867K, 06868L, 06871P, 06873R, 06874T, 06877Y, 06885J, 068886K
		01785Y, 06875W, 06876X, 06878B ,06873R
		01784X, 01788D, 06869M, 06870N, 06872Q, 06867K
		01783W, 06866J, 09058R
		01782T, 01790F, 06857X
		12112L, 12114N
Cefepime	J01DE01	08315P, 08316Q, 07079N, 07085X, 07076K, 07077L, 07082R, 07083T

The Registry of Senior Australians (ROSA) Research Centre
South Australian Health and Medical Research Institute
PO Box 11060
Adelaide, South Australia 5001
Ph: +61 8 8128 4662
E: ROSA@sahmri.com

Trimethoprim	J01EA01	02666H, 02922T, 10785P
Trimethoprim + Sulfamethoxazole	J01EE01	03103H, 02951H, 03390K, 10784N, 02949F, 03391L
Erythromycin	J01FA01	02425P, 01401R, 01404X, 03325B, 03328E, 01400Q
Erythromycin Ethylsuccinate	J01FA01	02428T, 03337P, 02424N, 03334L, 02750R, 03336N, 10789W
Erythromycin Lactobionate	J01FA01	01397M, 01398N
Roxithromycin	J01FA06	05261X, 08016X, 01760P, 05260W 08129W, 11993F, 12001P
Clarithromycin	J01FA09	09192T, 05624B, 06152T, 05625C, 06151R, 08318T
Azithromycin	J01FA10	05616N, 08201P, 04115N, 08200N, 08336R
Clindamycin	J01FF01	03138E, 05057E
Lincomycin	J01FF02	02530E, 05144R, 11380Y, 11366F
Tobramycin	J01GB01	09480Y, 05442K, 01356J, 08872Y, 10066T
Gentamicin	J01GB03	02824P, 01168L, 01068F
Ciprofloxacin	J01MA02	01210Q, 01209P, 01208N, 01311B
Norfloxacin	J01MA06	03010K
Vancomycin	J01XA01	02269K, 02270L
		03130R, 03131T, 06767E, 06770H, 06837W, 06838X, 06839Y, 06842D
Fusidate	J01XC01	02311P, 02312Q, 10782L
Metronidazole	J01XD01	03341W, 01630T, 01638F, 01821W, 02277W, 05154G, 01621H, 01626N, 05155H, 05159M, 01642K, 01636D, 03339R, 02298Y, 05157K
Tinidazole	J01XD02	01465D
Nitrofurantoin	J01XE01	01691B, 01693D, 01692C, 12671X
Methenamine Hippurate	J01XX05	03124K
Rifampicin	J04AB02*	08025J, 01983J, 01984K, 01981G, 01982H, 12189M,12190N,12200D, 12215X
Isoniazid	J04AC01	01554T

*Available as 'J04BA' in previous PBS records, so item codes are recommended for coding this antibiotic.
PBS: Pharmaceutical Benefits Scheme. **AN-ACC:** Australian National Aged Care Classification.

Denominator
Number of permanent residents

Exclusions
None

Covariates
Age, sex, number of health conditions

Stratifications
None

The Registry of Senior Australians (ROSA) Research Centre
South Australian Health and Medical Research Institute
PO Box 11060
Adelaide, South Australia 5001
Ph: +61 8 8128 4662
E: ROSA@sahmri.com

Comments

Data rules: dispensed antibiotics for systemic use, substr(ATC,1,3)= 'J01' OR vancomycin, ATC='A07AA09' OR rifaximin, ATC= 'A07AA11' OR amoxycillin + clarithromycin + omeprazole, ATC= 'A02BD05' OR clarithromycin + amoxicillin + esomeprazole, ATC= 'A02BD06' OR (rifampicin, ATC=' J04BA02' AND PBS item code = '08025J', '01983J', '01984K', '01981G', '01982H') OR (isoniazid, ATC= 'J04AC01' AND PBS item code = '01554T') (Table 1).
Dermatological and ophthalmological antibiotics not included.

Suggested citation: Registry of Senior Australians. Outcome Monitoring System Technical Specification – Antibiotic Use. Version 3.0. South Australian Health and Medical Research Institute. Adelaide, Australia; December 2025, 4 pages.

Any enquires about, or comments on, this Technical Specification document should be directed to:

Registry of Senior Australians (ROSA) Research Centre
South Australian Health and Medical Research Institute
PO Box 11060, Adelaide SA 5001
Ph: +61 (08) 8128 4662 Email: ROSA.OMS@sahmri.com
Website: https://rosaresearch.org/