

People in ARC dispensed one or more systemic antibiotics in a year, rate per 100

Te Tāhū Hauora
Health Quality & Safety
Commission



Source: [/measure/people-arc-dispensed-one-or-more-systemic-antibiotics-year-rate-100](#)

Description

This measure details the rate per 100 people listed in aged residential care (ARC) dispensed one or more systemic antibiotics in a year. Research in Aotearoa New Zealand has found higher rates of community antibiotic use for older people in general and especially high rates for people living in ARC due to multimorbidity and frailty. Higher rates of antibiotic-resistant organisms are also found in ARC residents.

Measure set

Antibiotics domain

Notes about this measure set

See technical document for details.

Numerator

People aged 65 and over living in an aged residential care facility dispensed one or more systemic antibiotics.

Denominator

People aged 65 years and over who had a GP consultation in a year listed in the ARC Funding database.

Denominator detail

Antibiotics (Chemical ID) included:

- Cephalosporins and cephamycins: cefaclor monohydrate 1228, cefazolin 1236, ceftriaxone 1232, cefuroxime axetil 1081, cefuroxime sodium 1233, cefalexin monohydrate 1234.
- Macrolides: azithromycin 1178, clarithromycin 2809, erythromycin ethyl succinate 6026, erythromycin lactobionate 6028, erythromycin stearate 6027, roxithromycin 2790.
- Penicillins: amoxicillin 1072, amoxicillin with clavulanic acid 1070, benzathine benzylpenicillin tetrahydrate 1120, benzylpenicillin sodium (penicillin G) 1136, flucloxacillin 1512, phenoxymethylpenicillin (penicillin V) 1970, procaine penicillin 2046.
- Tetracyclines: doxycycline 2529, minocycline hydrochloride 1828, tetracycline 3999.
- Other antibiotics: ciprofloxacin 2819, clindamycin 1303, colistin sulphomethate 1346, co-trimoxazole 1361, fusidic acid 1546 – formulation id 154601, gentamicin sulphate 1554, moxifloxacin 3925, paromomycin 3998, pyrimethamine 3992, sulfadiazine sodium 3993, tobramycin 2274, vancomycin 2314.

- Urinary tract infections: hexamine hippurate 1594, nitrofurantoin 1867, norfloxacin 1874, trimethoprim 2300.
- *Note: fusidic acid only includes one formulation*

Denominator exclusions

- Ciprofloxacin 2819 formulation id: 281904 (eye).
- Gentamicin sulphate 1554: 155405 (eye).
- Tobramycin 2274 formulation ids: 227425 (inhalation), 227404 (eyedrops) and 227405 (eye ointment).

Data sources

[Pharmaceutical Collection \(PHARMS\)](#)
[Aged Residential Care \(ARC\) Funding](#)
[PHO Enrolment Collection](#)
[Ministry of Health](#)

Responsible organisation(s)

Health Quality & Safety Commission | Te T?h? Hauora

Resources

Measure Technical Document: People listed in ARC dispensed one or more systemic antibiotics in a year (.pdf)

Resource link

<https://www.hqsc.govt.nz/assets/Our-data/Publications-resources/People-listed-in-ARC-dispensed-one-or-more-systemic-antibiotics-in-a-year.pdf>

Resource Type

Measures & documentation

Description

This document contains a detailed definition of the measure.