

Use of Antibiotics

I4C Indicator MED-ABX-001: Use of Antibiotics v 2.0

Category: Medication Management/Antibiotics

Purpose:

This indicator is used to identify antibiotic prescribing patterns across different age groups in a practice.

Source:

Based on BC's Health Data Coalition Current Clinical Measures, June 2018.

Base Population:

All patients with an Active demographic status.

Indicator Segments:

Age 0-20: No Antibiotics Prescribed in past year: Count of patients under 20 years of age with no antibiotics prescribed over the past 12 months.

Age 0-20: 1 Antibiotic Prescribed in past year: Count of patients under 20 years of age with exactly one antibiotic prescribed over the past 12 months.

Age 0-20: 2 Antibiotics Prescribed in past year: Count of patients under 20 years of age with exactly two antibiotics prescribed over the past 12 months.

Age 0-20: 3+ Antibiotics Prescribed in past year: Count of patients under 20 years of age with three or more antibiotics prescribed over the past 12 months.

Age 20-40: No Antibiotics Prescribed in past year: Count of patients between 20 and 40 years of age with no antibiotics prescribed over the past 12 months.

Age 20-40: 1 Antibiotic Prescribed in past year: Count of patients between 20 and 40 years of age with exactly one antibiotic prescribed over the past 12 months.

Age 20-40: 2 Antibiotics Prescribed in past year: Count of patients between 20 and 40 years of age with exactly two antibiotics prescribed over the past 12 months.

Age 20-40: 3+ Antibiotics Prescribed in past year: Count of patients between 20 and 40 years of age with three or more antibiotics prescribed over the past 12 months.

Age 40-60: No Antibiotics Prescribed in past year: Count of patients between 40 and 60 years of age with no antibiotics prescribed over the past 12 months.

Age 40-60: 1 Antibiotic Prescribed in past year: Count of patients between 40 and 60 years of age with exactly one antibiotic prescribed over the past 12 months.

Age 40-60: 2 Antibiotics Prescribed in past year: Count of patients between 40 and 60 years of age with exactly two antibiotics prescribed over the past 12 months.

Age 40-60: 3+ Antibiotics Prescribed in past year: Count of patients between 40 and 60 years of age with three or more antibiotics prescribed over the past 12 months.

Age 60+: No Antibiotics Prescribed in past year: Count of patients 60 years of age and older with no antibiotics prescribed over the past 12 months.

Age 60+: 1 Antibiotic Prescribed in past year: Count of patients 60 years of age and older with exactly one antibiotic prescribed over the past 12 months.

Age 60+: 2 Antibiotics Prescribed in past year: Count of patients 60 years of age and older with exactly two antibiotics prescribed over the past 12 months.

Age 60+: 3+ Antibiotics Prescribed in past year: Count of patients 60 years of age and older with three or more antibiotics prescribed over the past 12 months.

An *Antibiotic Prescribed in the past year* is any of the following medications (identified by brand or generic name) that is either a current (not discontinued) medication or is a medication which has been discontinued within the past 12 months:

Medication Name	Type of Antibiotic	Medication Name	Type of Antibiotic
Cefalexin	1 st Generation Cephalosporin	Penicillin	Penicillin
Cephalexin	1 st Generation Cephalosporin	Cloxacillin	Penicillin
Cefaprin	1 st Generation Cephalosporin	Pivmecillinam	Penicillin
Cefacetile	1 st Generation Cephalosporin	Flucloxacillin	Penicillin
Cefazolin	1 st Generation Cephalosporin	Ampicillin	Penicillin
Cefadroxil	1 st Generation Cephalosporin	Phenoxymethylpenicillin	Penicillin
Cefalotin	1 st Generation Cephalosporin	Dicloxacillin	Penicillin
Cefotiam	2 nd Generation Cephalosporin	Carbenicillin	Penicillin
Cefmetazole	2 nd Generation Cephalosporin	Nafcillin	Penicillin
Loracarbef	2 nd Generation Cephalosporin	Oxacillin	Penicillin
Cefaclor	2 nd Generation Cephalosporin	Cyclacillin	Penicillin
Ceforanide	2 nd Generation Cephalosporin	Benzylpenicillin	Penicillin
Cefprozil	2 nd Generation Cephalosporin	Amoxicillin	Penicillin
Cefamandole	2 nd Generation Cephalosporin	Amdinocillin	Penicillin
Cefonicid	2 nd Generation Cephalosporin	Bacampicillin	Penicillin
Cefotetan	2 nd Generation Cephalosporin	Meticillin	Penicillin
Cefoxitin	2 nd Generation Cephalosporin	Ticarcillin	Penicillin
Cefuroxime	2 nd Generation Cephalosporin	Azidocillin	Penicillin
Cefmenoxime	3 rd Generation Cephalosporin	Carindacillin	Penicillin
Cefpiramide	3 rd Generation Cephalosporin	Piperacillin	Penicillin
Ceftazidime	3 rd Generation Cephalosporin	Mezlocillin	Penicillin
Cefotaxime	3 rd Generation Cephalosporin	Procaine benzylpenicillin	Penicillin
Cefdinir	3 rd Generation Cephalosporin	Azlocillin	Penicillin

Cefixime	3 rd Generation Cephalosporin	Pivampicillin	Penicillin
Cefditoren	3 rd Generation Cephalosporin	Hetacillin	Penicillin
Ceftriaxone	3 rd Generation Cephalosporin	Ciprofloxacin	Quinolone
Cefoperazone	3 rd Generation Cephalosporin	Gatifloxacin	Quinolone
Ceftizoxime	3 rd Generation Cephalosporin	Gemifloxacin	Quinolone
Ceftibuten	3 rd Generation Cephalosporin	Grepafloxacin	Quinolone
Cefpodoxime	3 rd Generation Cephalosporin	Levofloxacin	Quinolone
Latamoxef	3 rd Generation Cephalosporin	Moxifloxacin	Quinolone
Lincomycin	Lincosamide	Norfloxacin	Quinolone
Lincocin	Lincosamide	Ofloxacin	Quinolone
Lincorex	Lincosamide	Sulfamethoxazole	Sulfonamide
Dalacin	Lincosamide	Trimethoprim	Sulfonamide
Cleocin	Lincosamide	Sulfisoxazole	Sulfonamide
Clindamycin	Lincosamide	Sulfadiazine	Sulfonamide
Azithromycin	Macrolide	Sulfonamide	Sulfonamide
Clarithromycin	Macrolide	Demeclocycline	Tetracycline
Erythromycin	Macrolide	Doxycycline	Tetracycline
Roxithromycin	Macrolide	Minocycline	Tetracycline
Josamycin	Macrolide	Tetracycline	Tetracycline
Dirithromycin	Macrolide	Delbavancin	Glycopeptide
Telithromycin	Macrolide	Telavancin	Glycopeptide
Fidaxomicin	Macrolide	Vancomycin	Glycopeptide
Solithromycin	Macrolide	Amikacin	Aminoglycoside
Spiramycin	Macrolide	Gentamicin	Aminoglycoside
Azithromycin	Macrolide	Neomycin	Aminoglycoside
Rovamycine	Macrolide	Netilmicin	Aminoglycoside
Troleandomycin	Macrolide	Streptomycin	Aminoglycoside
		Doripenem	Carbapenem
		Ertapenem	Carbapenem
		Imipenem	Carbapenem
		Cilastatin	Carbapenem
		Meropenem	Carbapenem

Suggested Indicator Use:

Physician or Practice use of this indicator is to identify patients across different age groups with multiple antibiotic prescriptions in the past 12 months.