Accessible version: https://www.cdc.gov/antibiotic-use/data/report-2020.html

Outpatient Antibiotic Prescriptions — United States, 2020

Citation: Centers for Disease Control and Prevention. Outpatient antibiotic prescriptions — United States, 2020.

Data Sources:

Systemic oral antibiotics were extracted from the IQVIA Xponent database. IQVIA captured an estimated 92% of outpatient prescriptions dispensed* from retail pharmacies for any medication nationally, reconciled them to wholesale deliveries to these pharmacies, and projected to 100% coverage. These data represent all outpatient antibiotic prescriptions from community pharmacies from all payers but exclude federal facilities. Provider specialties are taken from the American Medical Association (AMA) self-designated practice specialties, DEA and NPI sources and categorized into one of 17 groups. Population data were obtained from the U.S. Census bridging files.

Total outpatient oral antibiotic prescriptions in 2020

Healthcare providers prescribed **201.9 million antibiotic prescriptions**—equivalent to **613 antibiotic prescriptions per 1000 persons**.

Characteristics Age group ^a	Number of Antibiotic Prescriptions (Millions)	Antibiotic Prescriptions Per 1,000 Persons, Rate
<20	33.3	389
>=20	168.4	690
Characteristics Sex ^a	Number of Antibiotic Prescriptions (Millions)	Antibiotic Prescriptions Per 1,000 Persons, Rate
Male	76.8	473
Female	125	747
Characteristics	Number of Antibiotic Prescriptions	Antibiotic Prescriptions Per 1,000
Region ^a	(Millions)	Persons, Rate
Northeast	35.5	636
Midwest	42.8	627
South	88.5	698
West	34.9	444

^aTotals may not add to all oral prescriptions (201.9 million) due to missing data

Table 2. Top oral antibiotic classes and agents—United States, 2020

Characteristics: Antibiotic class	Number of Antibiotic Prescriptions (Millions)	Antibiotic Prescriptions Per 1,000 Persons, Rate
Penicillins	43.2	131
Cephalosporins	30.2	92
Macrolides	29	88
Tetracycline	22.7	69
B-lactams, increased activity	21	64
Characteristics: Antibiotic agent	Number of Antibiotic Prescriptions (Millions)	Antibiotic Prescriptions Per 1,000 Persons, Rate
		-
Antibiotic agent	Prescriptions (Millions)	Persons, Rate
Antibiotic agent Amoxicillin	Prescriptions (Millions) 39.3	Persons, Rate
Antibiotic agent Amoxicillin Azithromycin	Prescriptions (Millions) 39.3 27.6	Persons, Rate 119 84

Provider Specialty	Number of Antibiotic Prescriptions (Millions)	Antibiotic Prescriptions Per Provider, Rate
Primary Care Physicians	64.1	270
Physician Assistants & Nurse Practitioners	62.3	360
Surgical Specialties	15.3	172
Dentistry	23.4	191
Emergency Medicine	9.5	295
Dermatology	5.6	496
Obstetrics/Gynecology	4.6	123
Other	17.0	82
All Providers ^a	201.9	221

Table 3. Oral antibiotic prescribing by provider specialty — United States, 2020

^a Total may not add to all oral prescriptions (201.9 million) due to rounding.

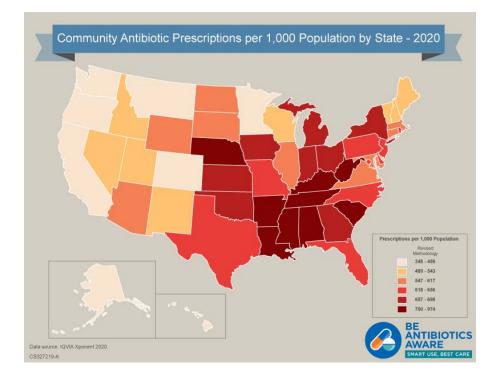


Figure 1. Antibiotic prescriptions per 1000 persons by state (sextiles) for all ages — United States, 2020.

This project was made possible through a partnership with the CDC Foundation. Support for this project was provided by The Pew Charitable Trusts.

State	Number of prescriptions per 1,000 persons, Rate
Alabama	922
Alaska	348
Arizona	547
Arkansas	844
California	421
Colorado	418
Connecticut	617
Delaware	618
District of Columbia	627
Florida	656
Georgia	682
Hawaii	420
Idaho	506
Illinois	606
Indiana	680
lowa	665
Kansas	690
Kentucky	887
Louisiana	920
Maine	517
Maryland	562
Massachusetts	548
Michigan	657
Minnesota	455
Mississippi	956
Missouri	644
Montana	459

Nebraska	718
Nevada	538
New Hampshire	543
New Jersey	656
New Mexico	519
New York	675
North Carolina	625
North Dakota	547
Ohio	698
Oklahoma	675
Oregon	398
Pennsylvania	647
Rhode Island	635
South Carolina	700
South Dakota	612
Tennessee	842
Texas	637
Utah	541
Vermont	489
Virginia	591
Washington	397
West Virginia	974
Wisconsin	498
Wyoming	586