



Macrolides

NATIONAL OUTPATIENT ANTIBIOTIC PRESCRIPTION RATE

Antibiotic prescription rate is defined as the number of prescriptions of macrolides per 1,000 population. In 2020, 88 prescriptions of macrolides were dispensed in U.S. outpatient pharmacies for every 1,000 persons.

88 Prescriptions of
macrolides per 1,000
population in 2020

US CENSUS REGION WITH HIGHEST OUTPATIENT ANTIBIOTIC PRESCRIPTION RATE

Compared with other regions, the South U.S. Census region had the highest rate of outpatient prescriptions of macrolides dispensed per 1,000 population in 2020.

South

TOTAL OUTPATIENT ANTIBIOTIC PRESCRIPTIONS DISPENSED

In 2020, 29 million prescriptions of macrolides were dispensed in U.S. outpatient pharmacies.

29M Total prescriptions
dispensed in 2020

ANTIBIOTIC CLASS PROFILE

Macrolides

Examples: azithromycin, erythromycin.

How they work: Macrolides prevent bacteria from multiplying by keeping bacteria from making proteins.

DATA SOURCE

IQVIA XPONENT DATABASE

<https://www.iqvia.com/locations/united-states/solutions/commercial-operations/essential-information/prescription-information>

YEARS INCLUDED

2019 - 2020

RESOURCES

Be Antibiotics Aware: Smart Use, Best Care educational effort

<https://www.cdc.gov/antibiotic-use>

U.S. Antibiotic Awareness Week

<https://www.cdc.gov/antibiotic-use/week/index.html>

Annual Reports

<https://www.cdc.gov/antibiotic-use/community/programs-measurement/measuring-antibiotic-prescribing.html>



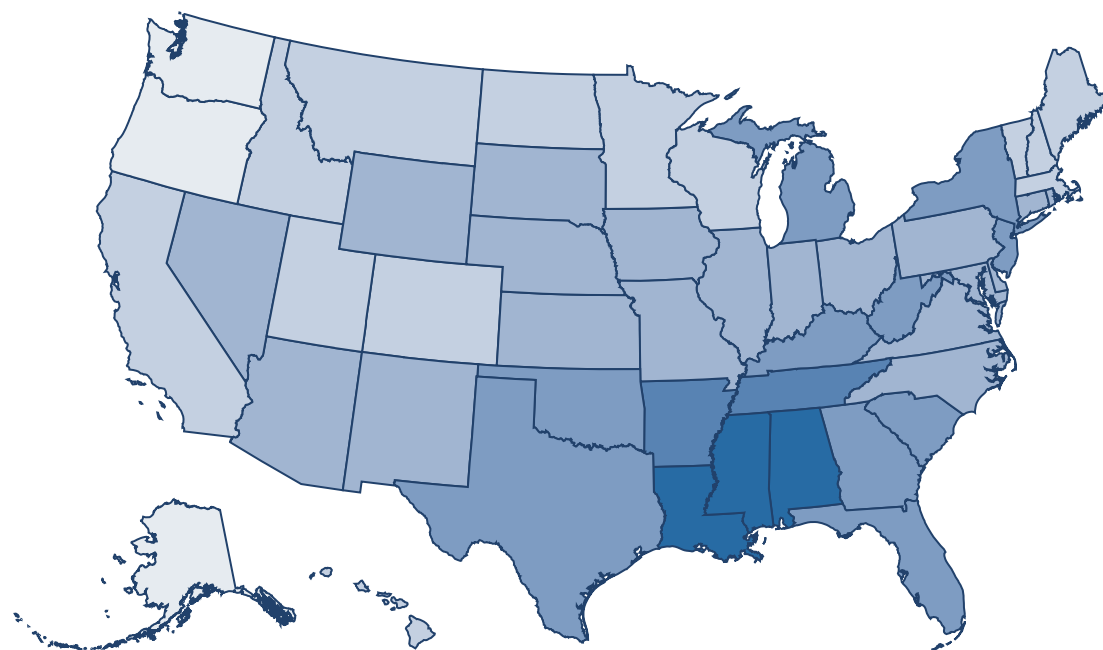
GEOGRAPHIC LOCATIONS

Antibiotics are prescribed differently across the United States. Reasons for regional variation may include different prescribing behaviors, diagnostic patterns, disease burden, and levels of antibiotic resistance among certain pathogens.

OUTPATIENT PRESCRIPTION RATE OF MACROLIDES DISPENSED IN U.S. PHARMACIES BY STATE MAP

YEAR 2020

This map displays prescription rates of macrolides per 1,000 population dispensed in outpatient pharmacies across U.S. states in 2020.



Macrolides Prescriptions Dispensed per 1,000 Population

22 - 47 47 - 69 69 - 94 94 - 120 121 - 160 161+

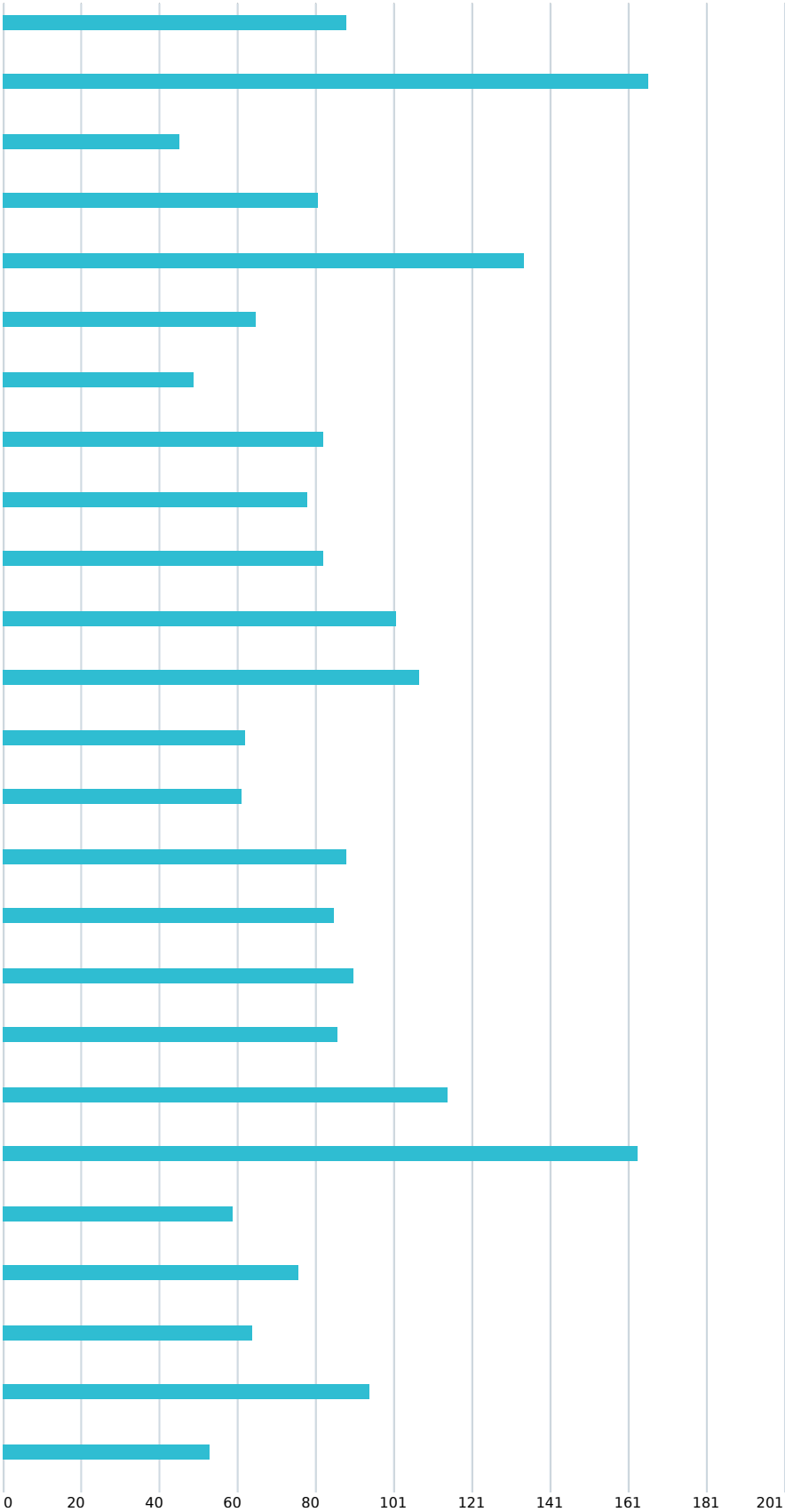
OUTPATIENT PRESCRIPTION
RATE OF MACROLIDES
DISPENSED IN U.S.
PHARMACIES BY STATE LIST

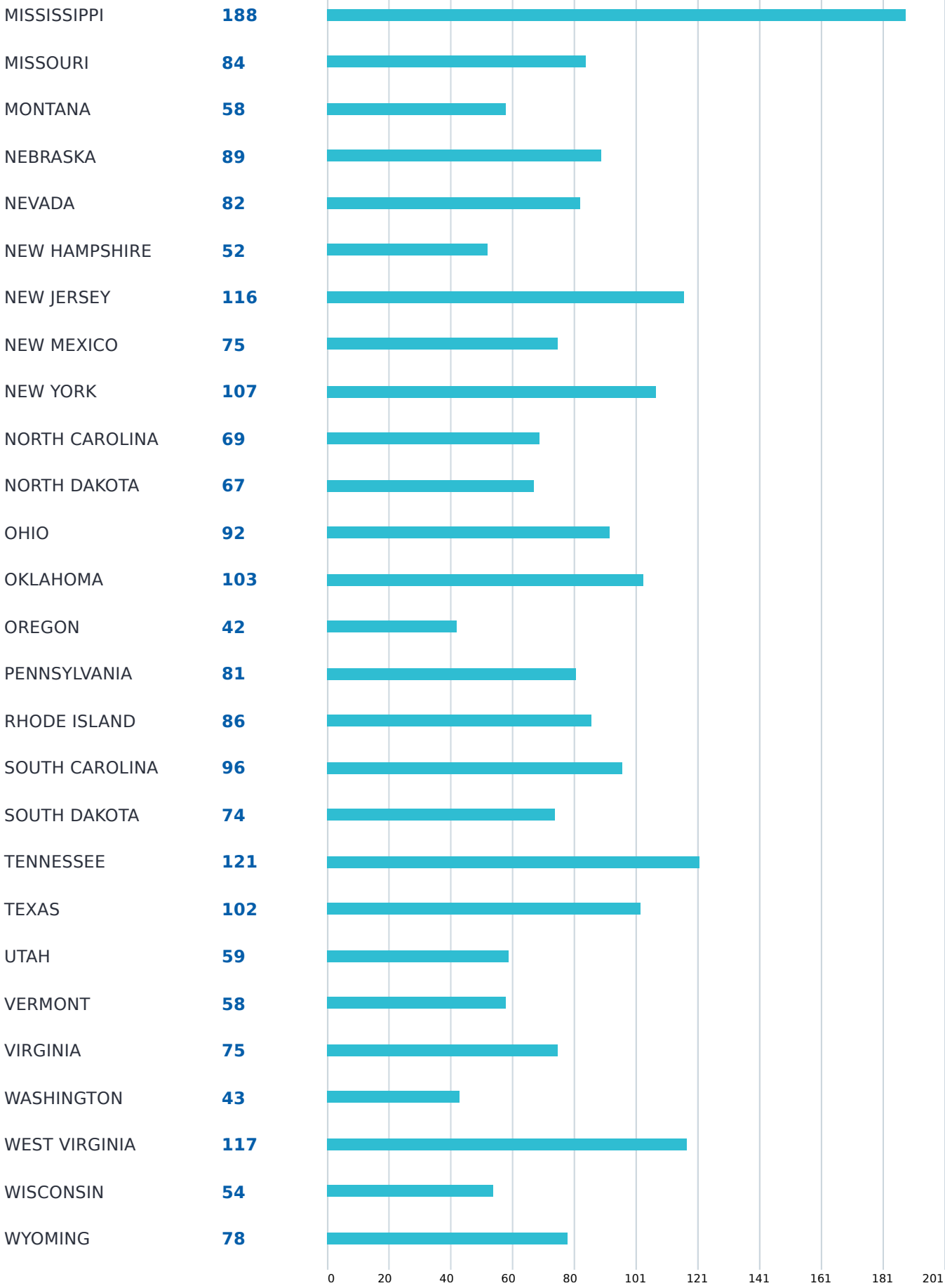
YEAR 2020

This graph shows rates of outpatient prescriptions of macrolides for the nation and by state in 2020. Prescription rates are calculated per 1,000 population.

GEOGRAPHY

UNITED STATES	88
ALABAMA	166
ALASKA	45
ARIZONA	81
ARKANSAS	134
CALIFORNIA	65
COLORADO	49
CONNECTICUT	82
DELAWARE	78
DISTRICT OF COLUMBIA	82
FLORIDA	101
GEORGIA	107
HAWAII	62
IDAHO	61
ILLINOIS	88
INDIANA	85
IOWA	90
KANSAS	86
KENTUCKY	114
LOUISIANA	163
MAINE	59
MARYLAND	76
MASSACHUSETTS	64
MICHIGAN	94
MINNESOTA	53







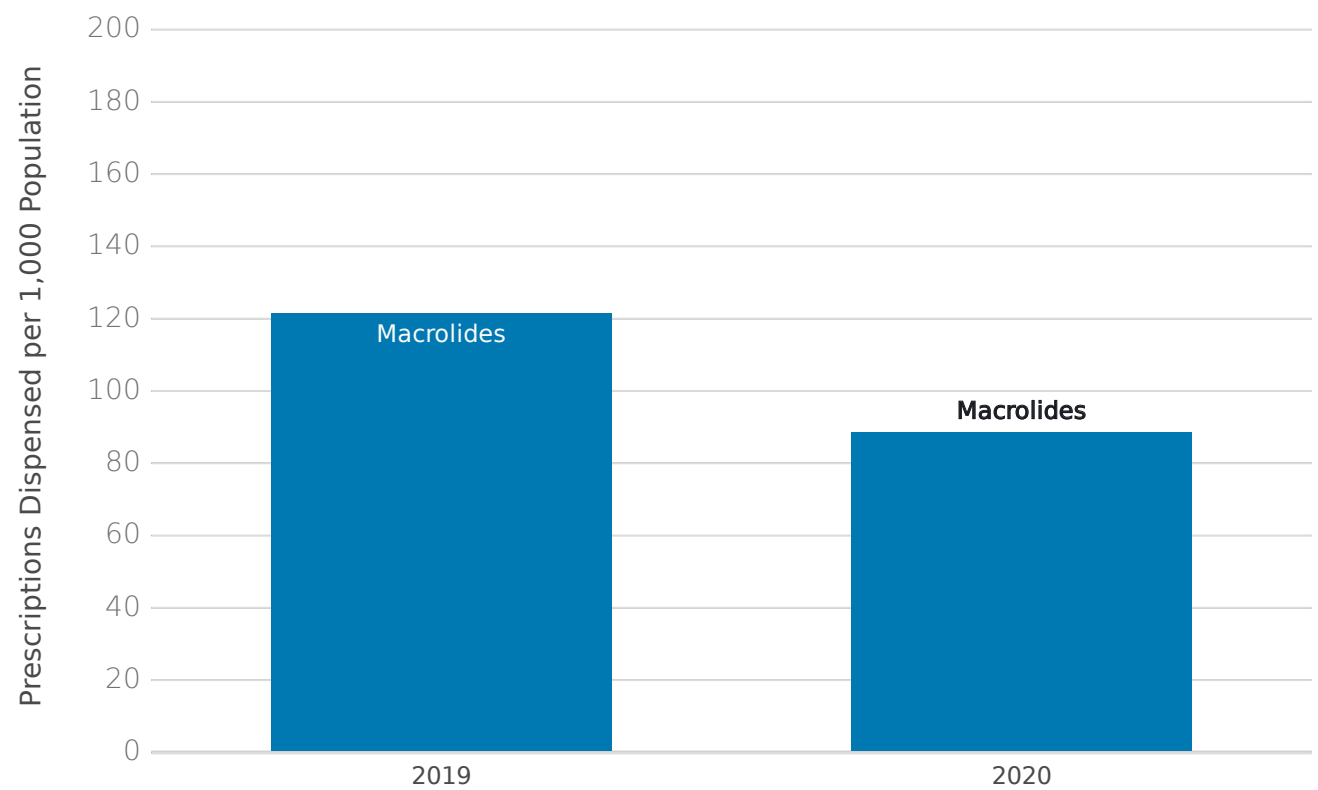
↑ CHANGES OVER TIME

Antibiotic prescribing patterns have changed over time.

CHANGES OVER TIME IN OUTPATIENT PRESCRIPTION RATES OF MACROLIDES

DEMOGRAPHIC **All**

This graph displays prescriptions of macrolides dispensed per 1,000 population in U.S. outpatient pharmacies from 2019 - 2020.



COMPARING ANTIBIOTIC CLASSES

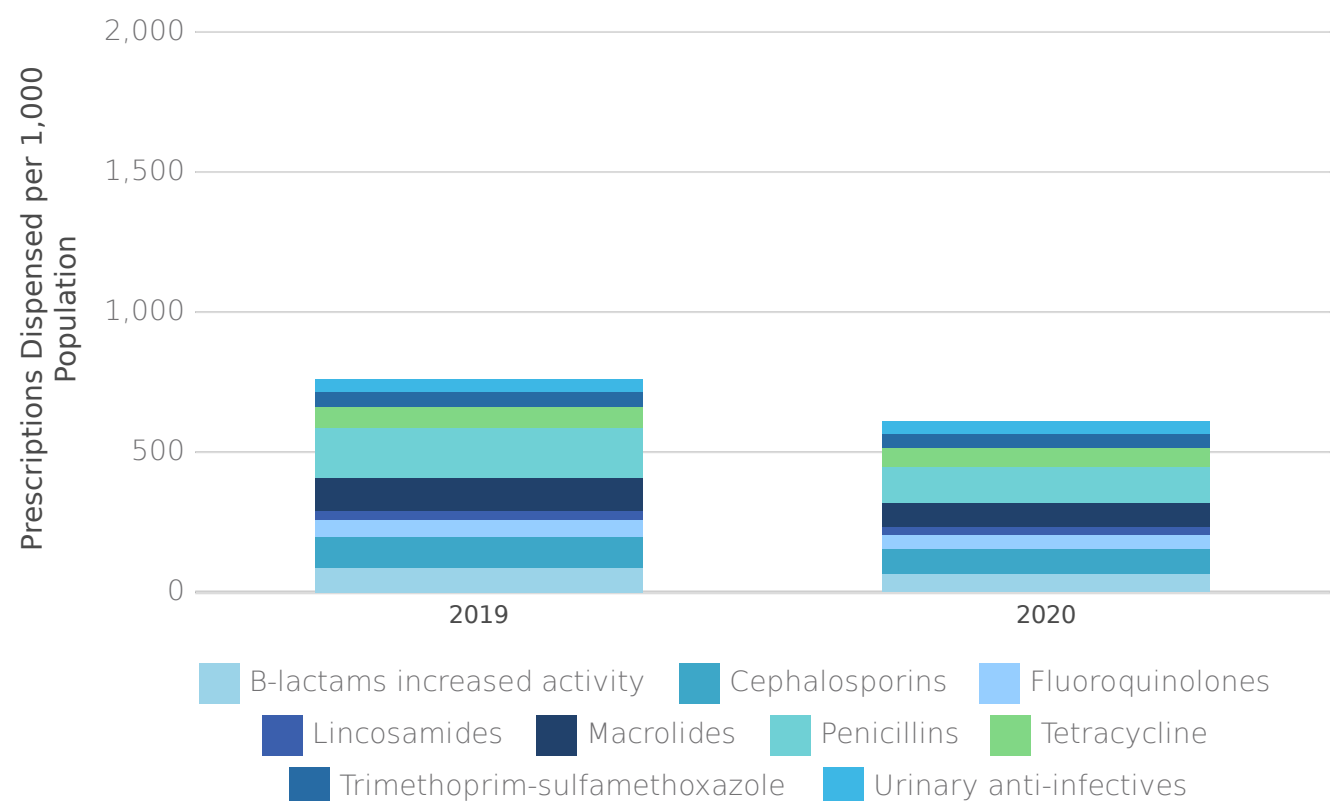
Outpatient antibiotic prescription rates vary by antibiotic class.

OUTPATIENT ANTIBIOTIC PRESCRIPTIONS DISPENSED IN U.S. COMMUNITY PHARMACIES

ANTIBIOTIC CLASS

B-lactams increased activity Cephalosporins
Fluoroquinolones Lincosamides Macrolides
Penicillins Tetracycline
Trimethoprim-sulfamethoxazole
Urinary anti-infectives

This graph displays national outpatient antibiotic prescriptions dispensed in U.S. community pharmacies per 1,000 population by antibiotic class over time.



FOOTNOTES

- These data are from the IQVIA database and reflect all outpatient antibiotic prescriptions dispensed to humans from U.S. community pharmacies. These data do not include antibiotic prescriptions dispensed from federal facilities.
- Data reflect annual rates of antibiotic prescriptions dispensed per 1,000 population, i.e. the number of antibiotic prescriptions dispensed per year for every 1,000 persons. Annual rates allow for comparisons of the number of antibiotic prescriptions dispensed in different geographic areas or over time while controlling for differences in the size of the underlying population.
- Map legends are classified using the Jenks Natural Breaks method.
- Due to missing data, totals by age group and/or sex may not add up to all prescriptions. Antibiotic class defines a set of related antibiotics. State-level rates of penicillins, macrolides, cephalosporins, and fluoroquinolones are displayed. Also displayed are all antibiotic classes, which include these four classes plus additional classes not available for release at the state level.
- Data are not available for geographic regions smaller than states.