

Quality
INNOVATION
SERIES

What's New in the World of Antibiotic Stewardship? Part 2: Impacts of COVID and Use of Telehealth

Sharon Tsay, MD

August 25, 2022



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Planning Committee Disclosures

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Kara Martin, MPH, has no financial relationships to disclose relating to the subject matter of this presentation.

Tracelyn Thigpen, MSN, RN, PCMH CCE, has no financial relationships to disclose relating to the subject matter of this presentation.

Tammy Cox, PharmD, BCACP, CPP, has no financial relationships to disclose relating to the subject matter of this presentation.

Crissy Crittenden, MSA, PCMH CCE, has no financial relationships to disclose relating to the subject matter of this presentation.

Faculty



Sharon Tsay, MD
Medical Officer
Office of Antibiotic Stewardship
Centers for Disease Control and Prevention

Objectives

- Assess current trends in outpatient antibiotic use in the United States before and during the COVID-19 pandemic
- Discuss changes in healthcare delivery related to the COVID-19 pandemic and its affect on antibiotic prescribing
- Identify resources available to get started with antibiotic stewardship

The Threat of Antibiotic Resistance in the United States



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

New National Estimate*

Antibiotic-resistant bacteria and fungi cause at least an estimated:



Clostridioides difficile is related to antibiotic use and antibiotic resistance: *



New Threats List

Updated urgent, serious, and concerning threats—totaling 18

5 urgent threats

2 new threats

NEW:
Watch List with **3** threats



Antibiotic resistance remains a significant One Health problem, affecting humans, animals, and the environment.

* *C. diff* cases from hospitalized patients in 2017

www.cdc.gov/DrugResistance/Biggest-Threats

Five core strategies to combat the threat of antibiotic resistant infections

Antibiotic use and access:

- Improve **appropriate** use
- Reduce **unnecessary** use
- Ensure **improved access**



Infection prevention and control: Prevent infections and reduce the spread of germs



Tracking and data: Share data and improve data collection



Antibiotic use and access: Improve appropriate use of antibiotics, reduce unnecessary use (called antibiotic stewardship), and ensure improved access to antibiotics

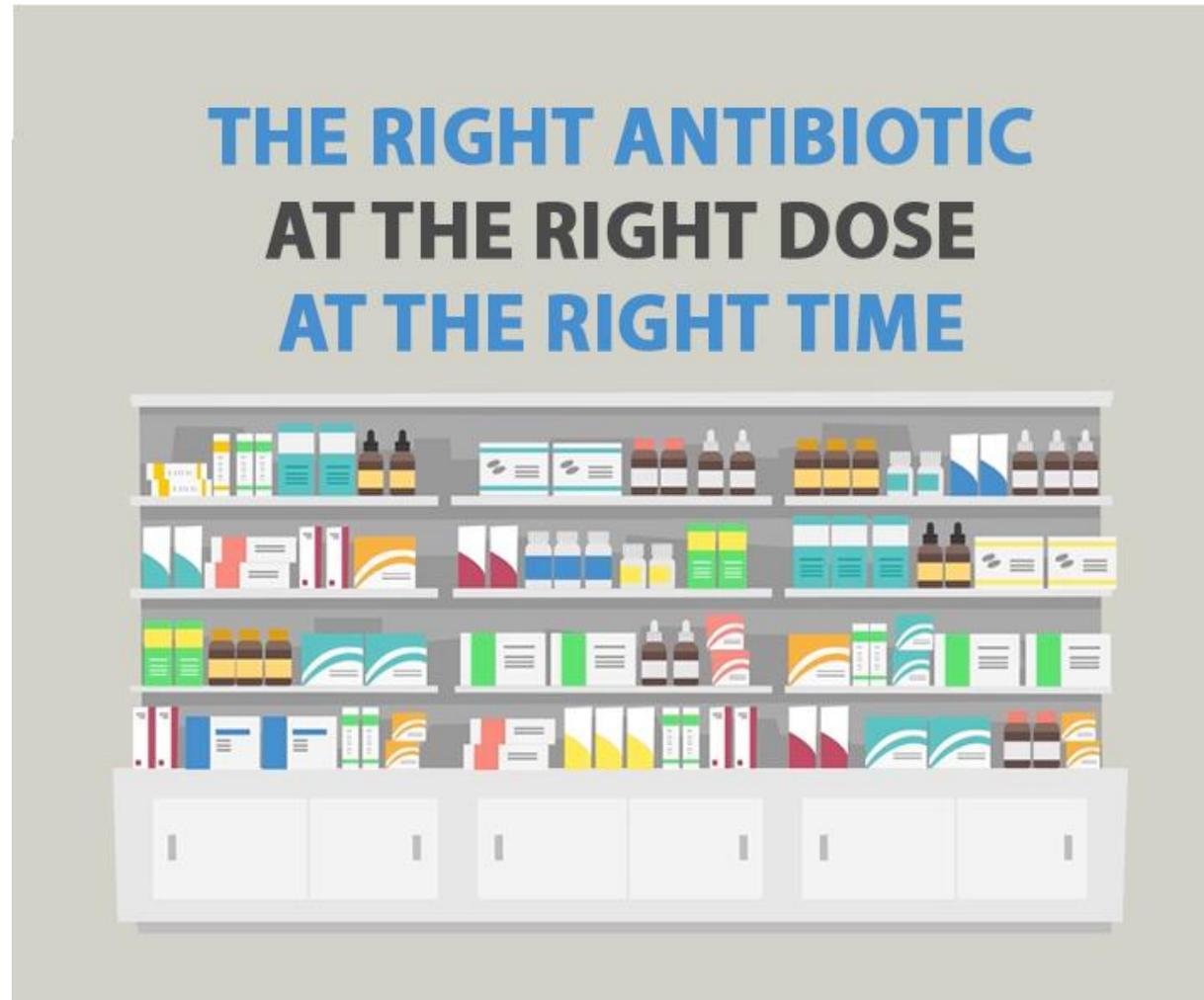


Vaccines, therapeutics, and diagnostics: Invest in development and improved access to vaccines, therapeutics, and diagnostics for better prevention, treatment, and detection



Environment and sanitation: Keep antibiotics and antibiotic-resistant threats from entering the environment through actions like improving sanitation and improving access to safe water

Antibiotic stewardship is about patient safety and delivering high-quality healthcare



Antibiotics can lead to adverse events and other complications

FOR HEALTHCARE PROFESSIONALS
Antibiotics and Adverse Events



Antibiotics are responsible for almost **1 out of 5** emergency department visits for adverse drug events.¹



Antibiotics are **the most common cause** of emergency department visits for adverse drug events in children under 18 years of age.¹

Anytime antibiotics are prescribed, they can cause adverse events. Only prescribe antibiotics when clinically indicated.

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use.

¹Shehab N, et al. JAMA. 2016 Nov;316(20):2115-25



There is room for improvement in outpatient antibiotic use

IMPROVE OUTPATIENT ANTIBIOTIC USE

72%
of antibiotic
prescriptions
are likely
necessary.

(Still need to improve drug selection, dose, and duration).



at least
28%
of antibiotic
prescriptions
are **unnecessary**.

In U.S. Doctor's Offices and EDs

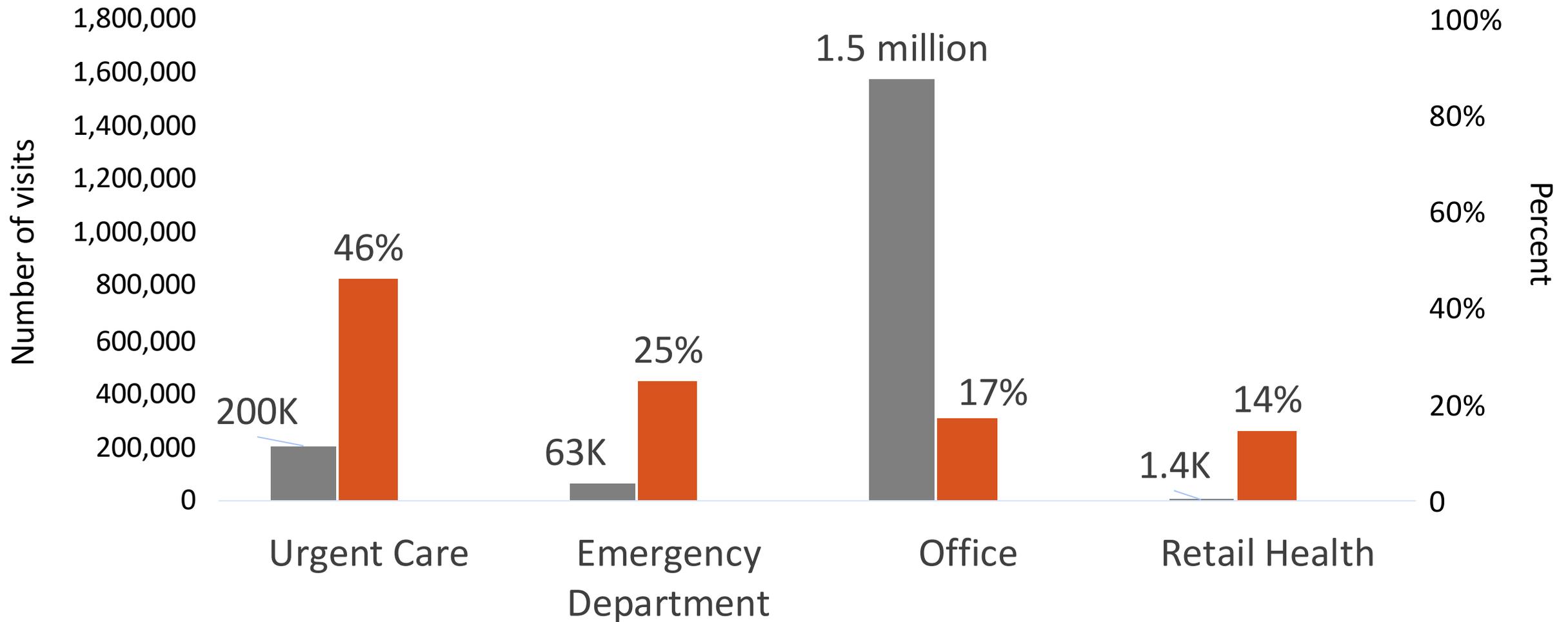


www.cdc.gov/antibiotic-use



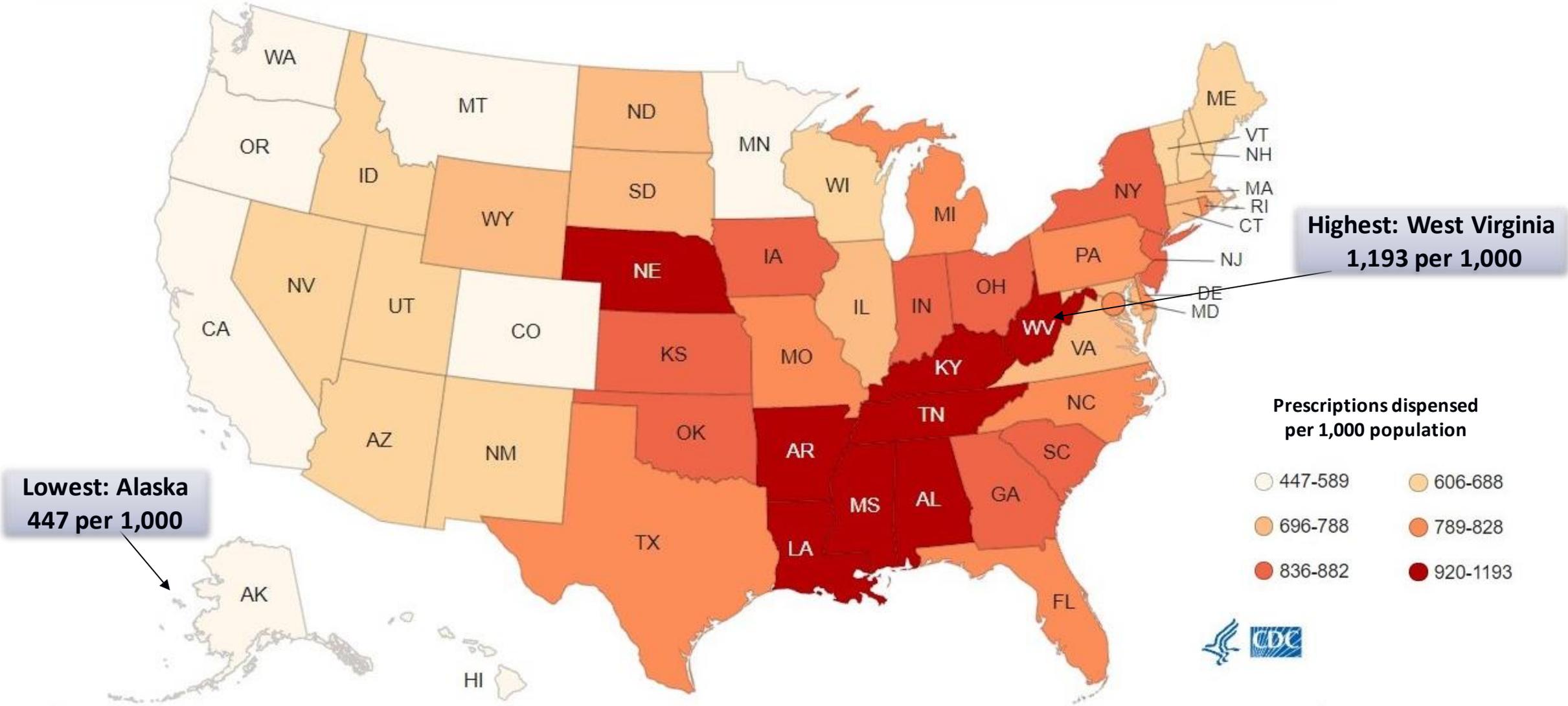
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Antibiotic prescribing for viral respiratory infections is common across outpatient settings



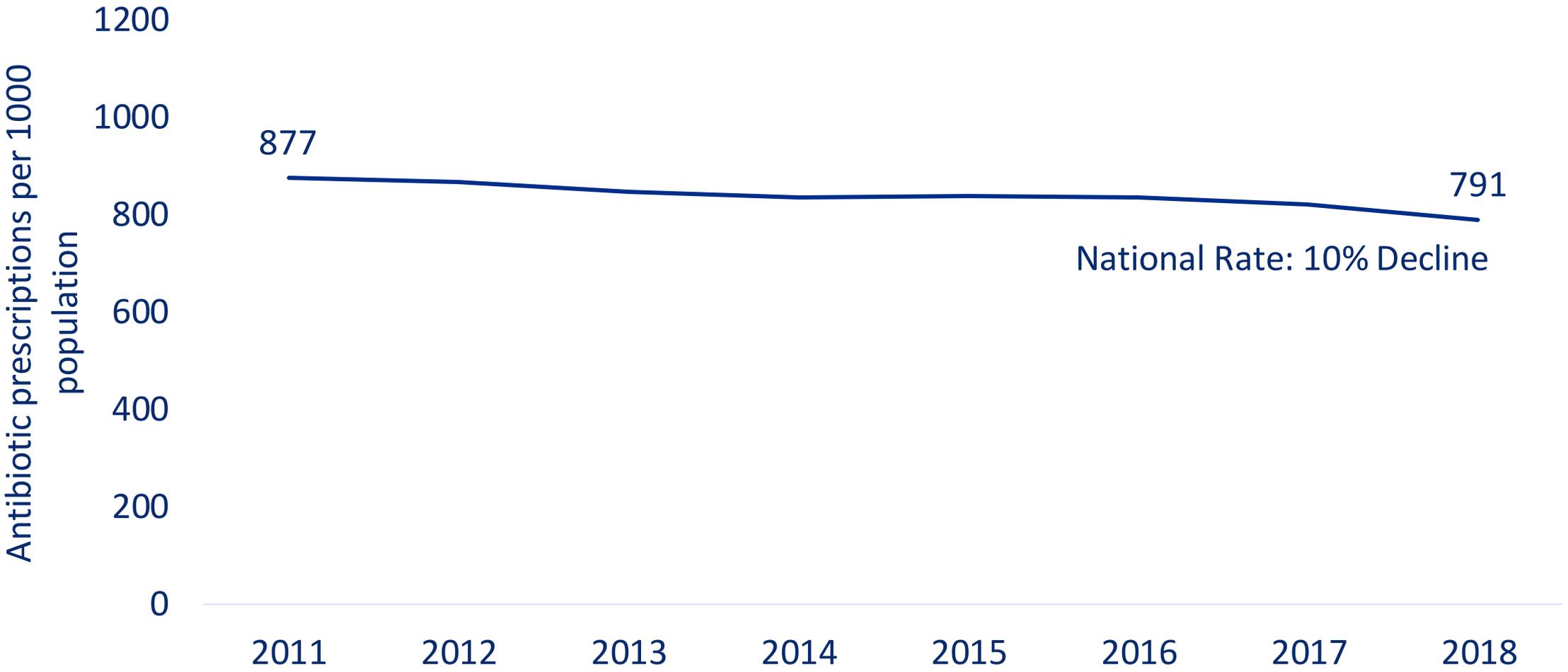
Current trends in outpatient antibiotic use in the United States

Antibiotic prescribing differs geographically across the United States



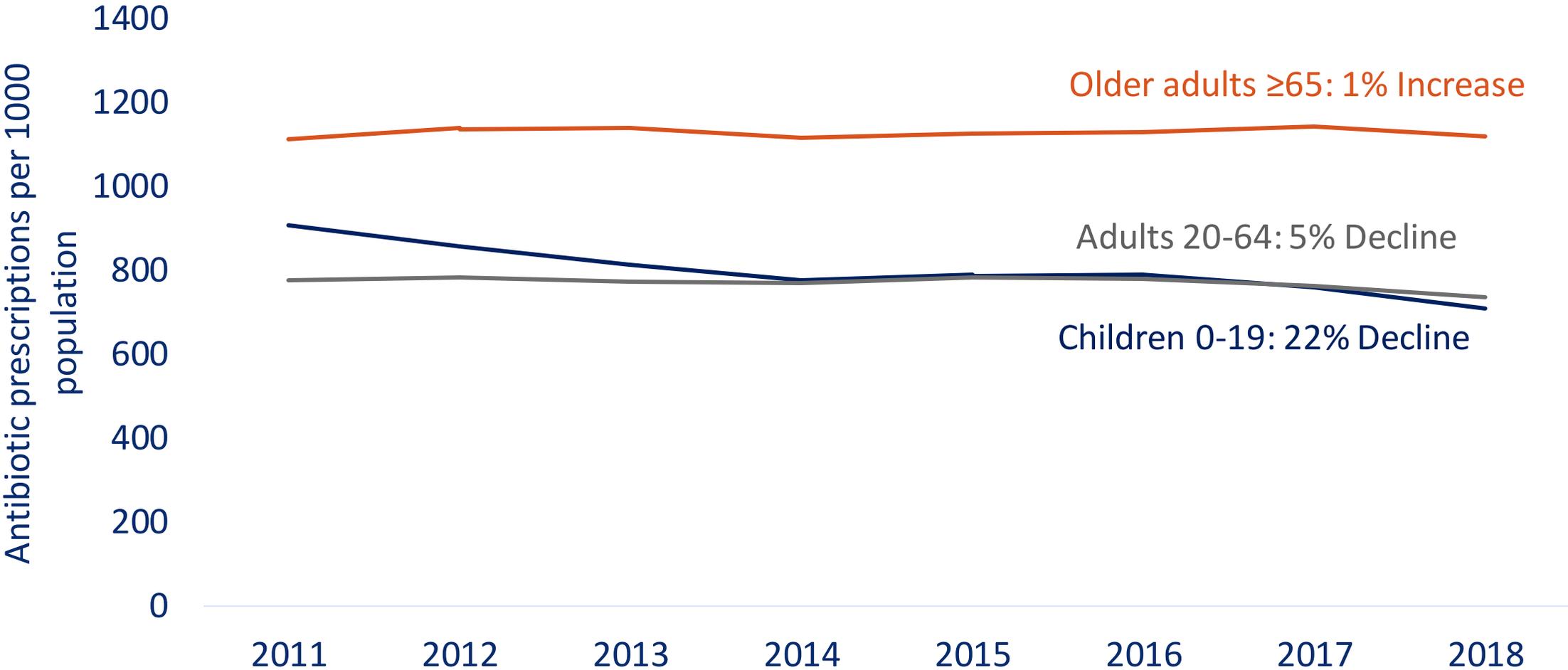
Data: IQVIA Xponent (2019)

National outpatient antibiotic prescribing rates have declined by 10% since 2011



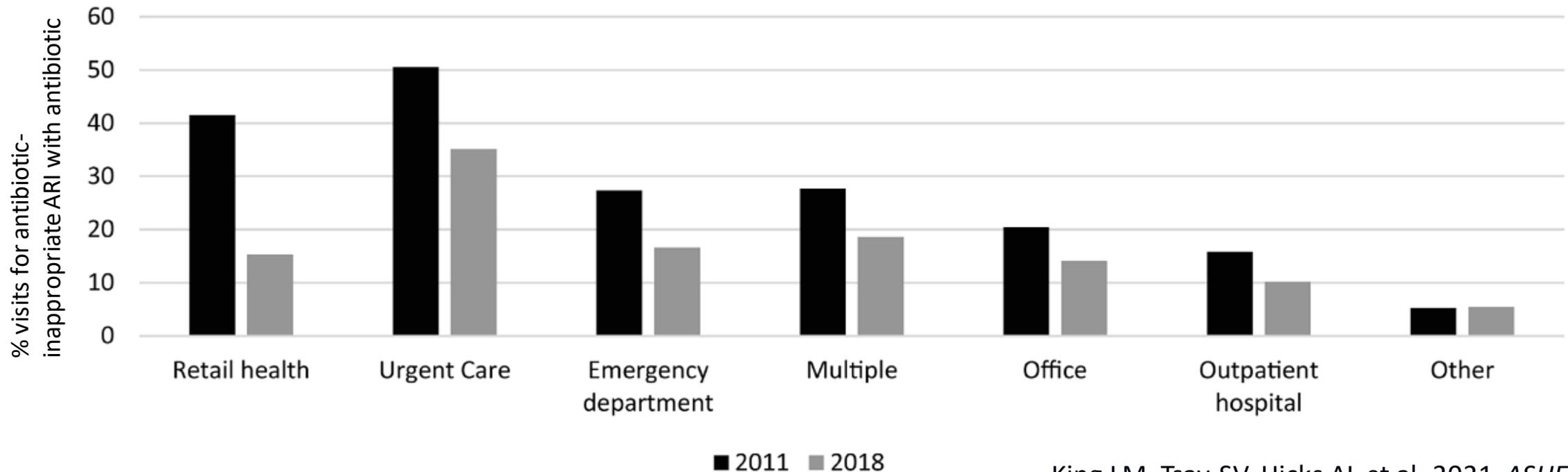
Data: IQVIA Xponent

The improvement has been mostly driven by reductions in children

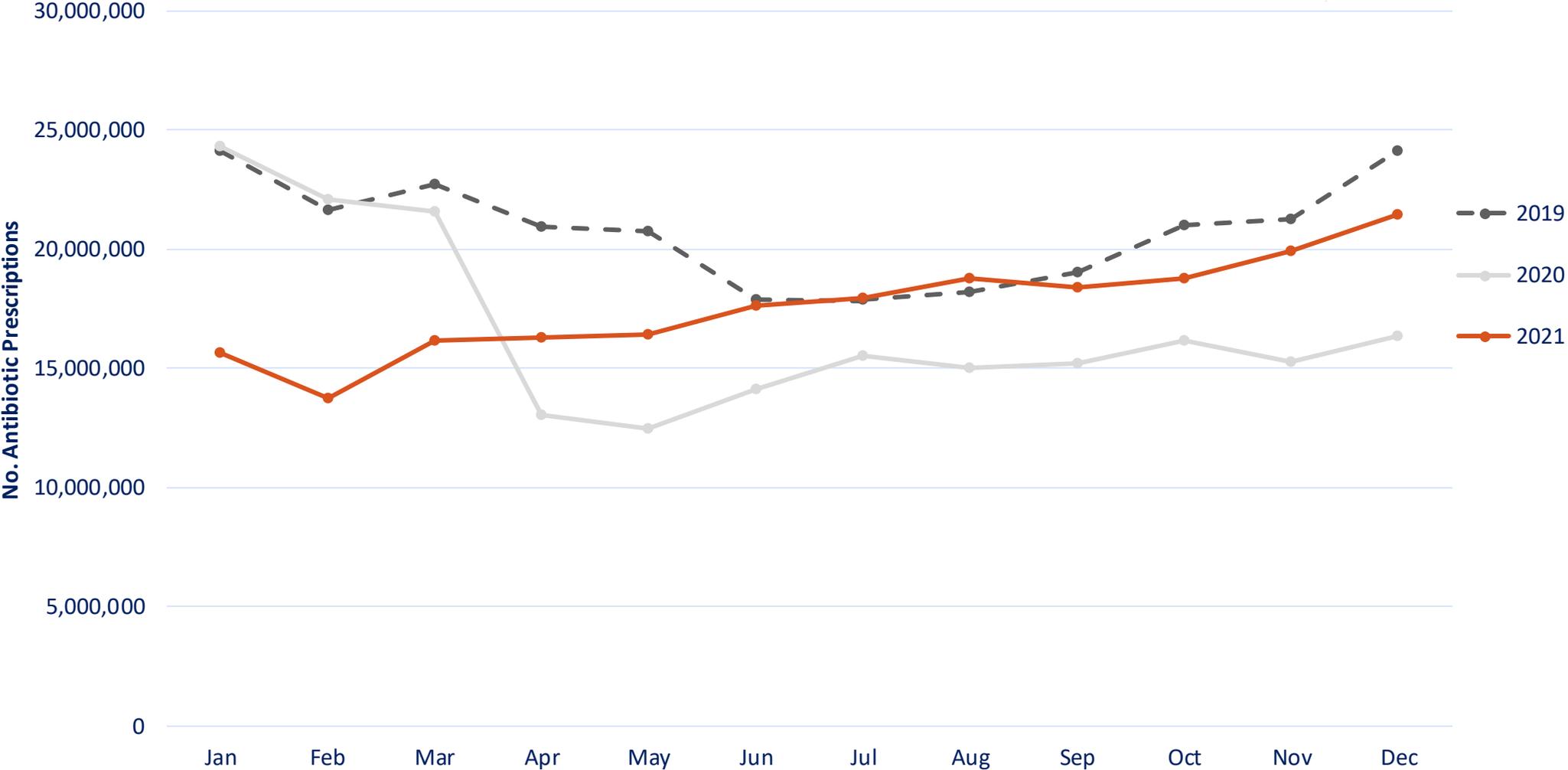


Antibiotic prescribing for acute respiratory infections has decreased

- From 2011 to 2018, among commercially-insured individuals ≤ 65 years,
 - Visits for **any ARI** decreased by 8%; those resulting in an antibiotic prescription decreased 16%
 - Visits for **viral ARIs** decreased by 9%, those resulting in an antibiotic prescription decreased 32%
 - Decreases were seen **across outpatient settings**

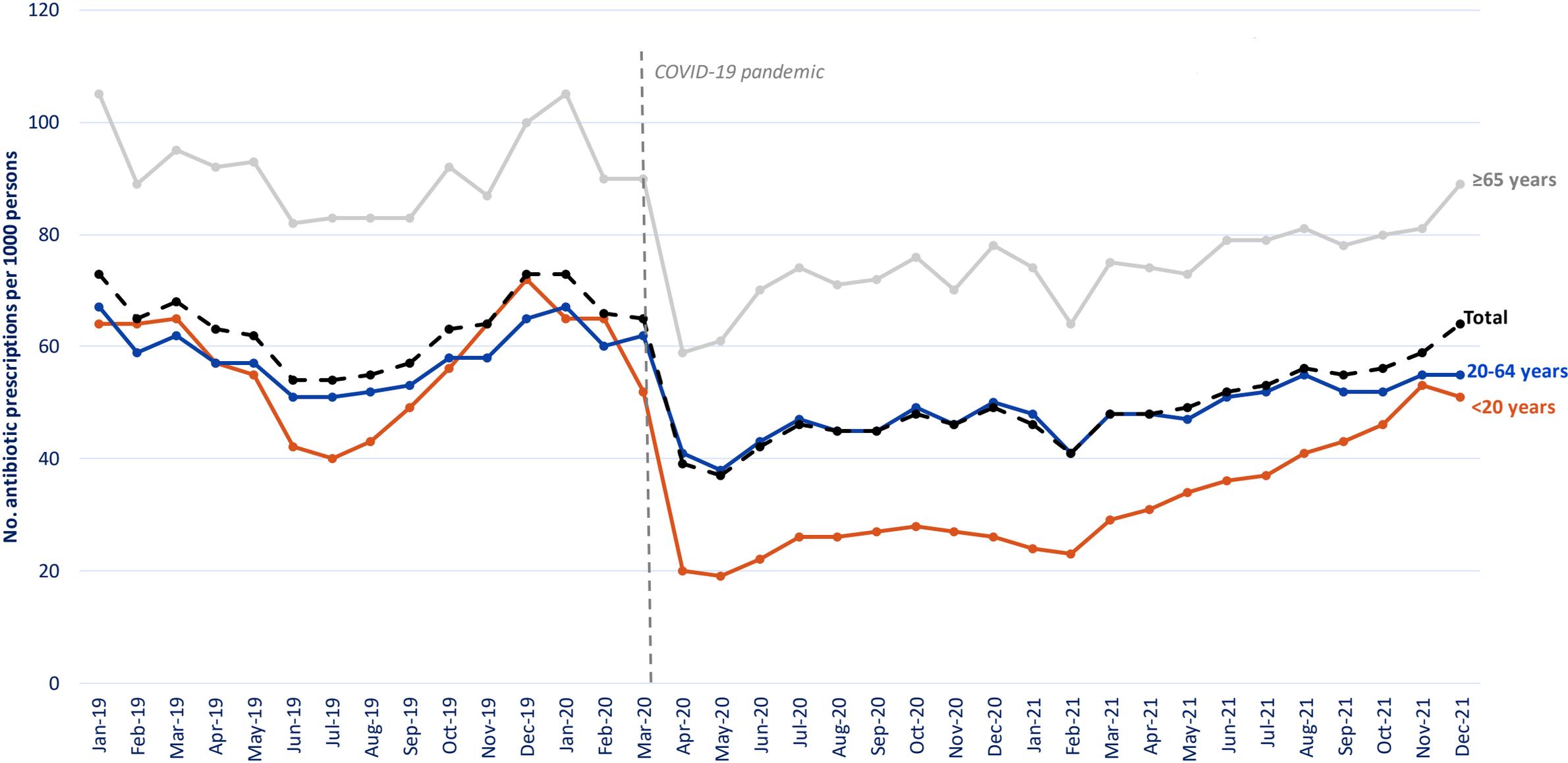


National monthly outpatient antibiotic prescriptions: 2019-2021



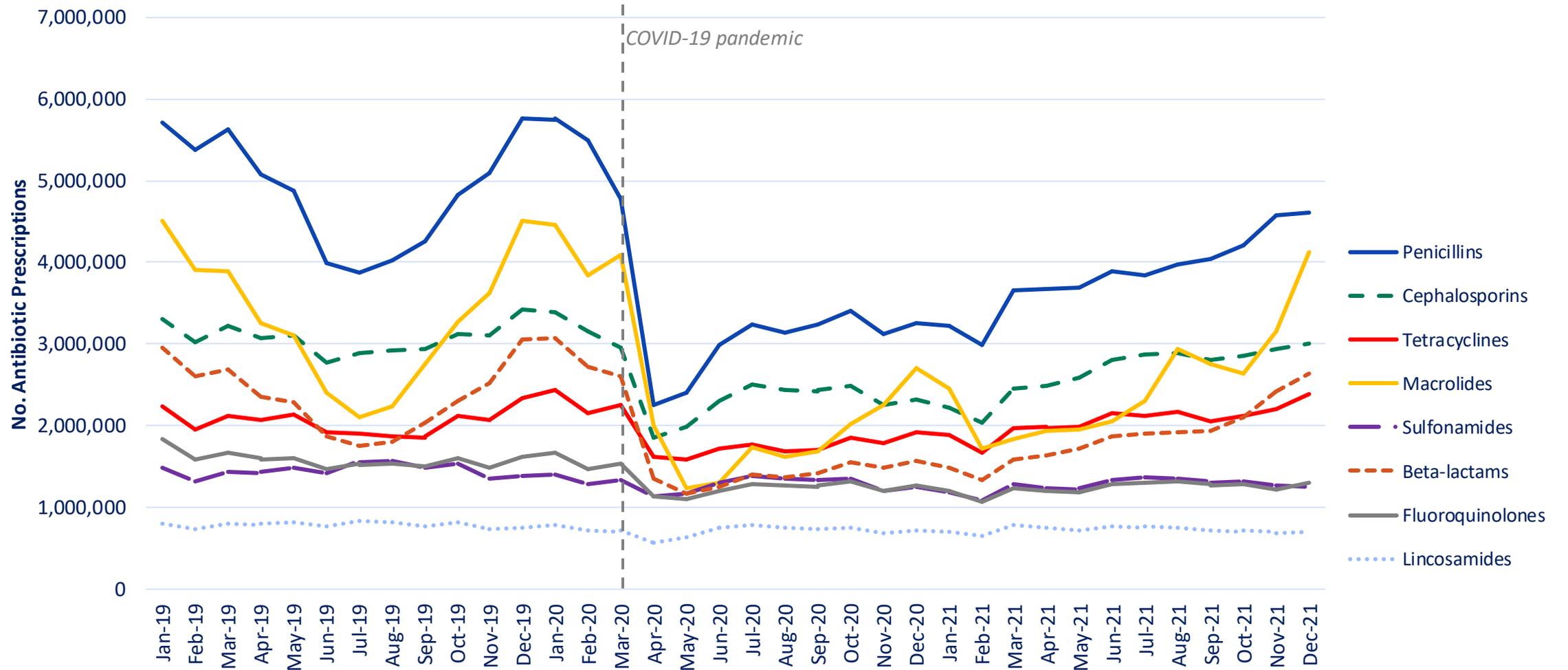
Data: IQVIA National Prescription Audit

National monthly antibiotic prescriptions by age group



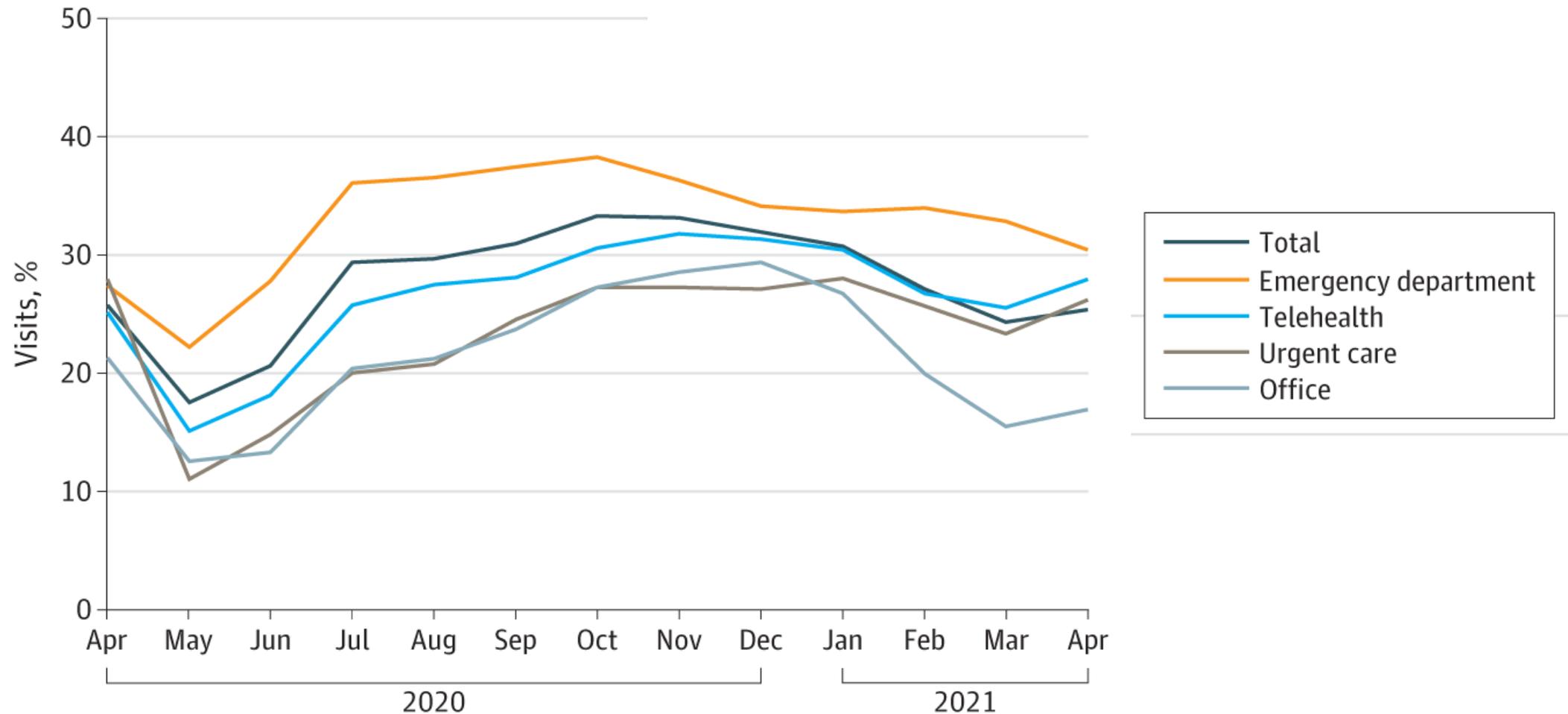
Data: IQVIA National Prescription Audit

National monthly antibiotic prescription by antibiotic class



"Other" class not displayed

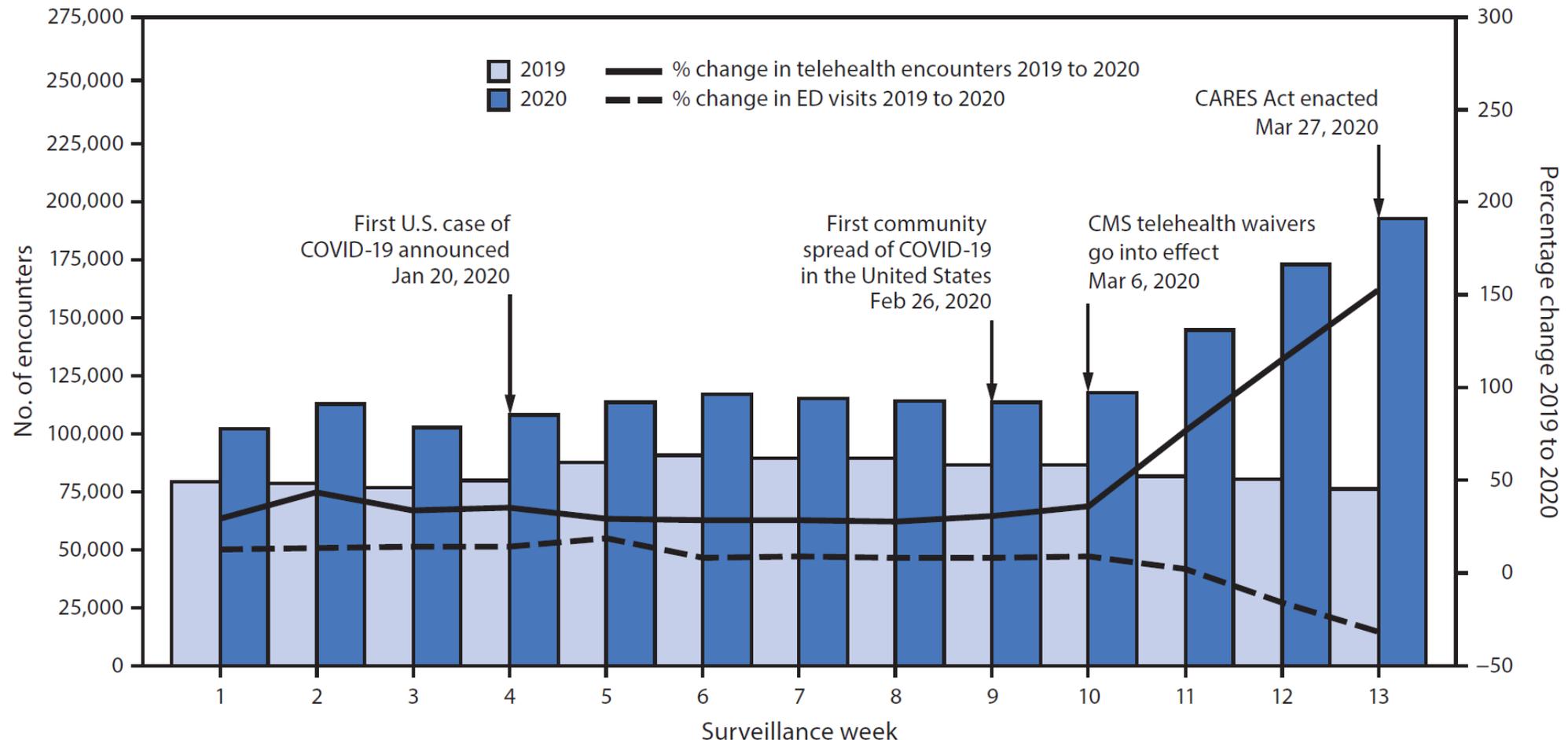
Antibiotic prescribing to older adults with COVID-19 was common across outpatient settings



The Changing Landscape of Outpatient Healthcare: Expansion of Telemedicine in 2020

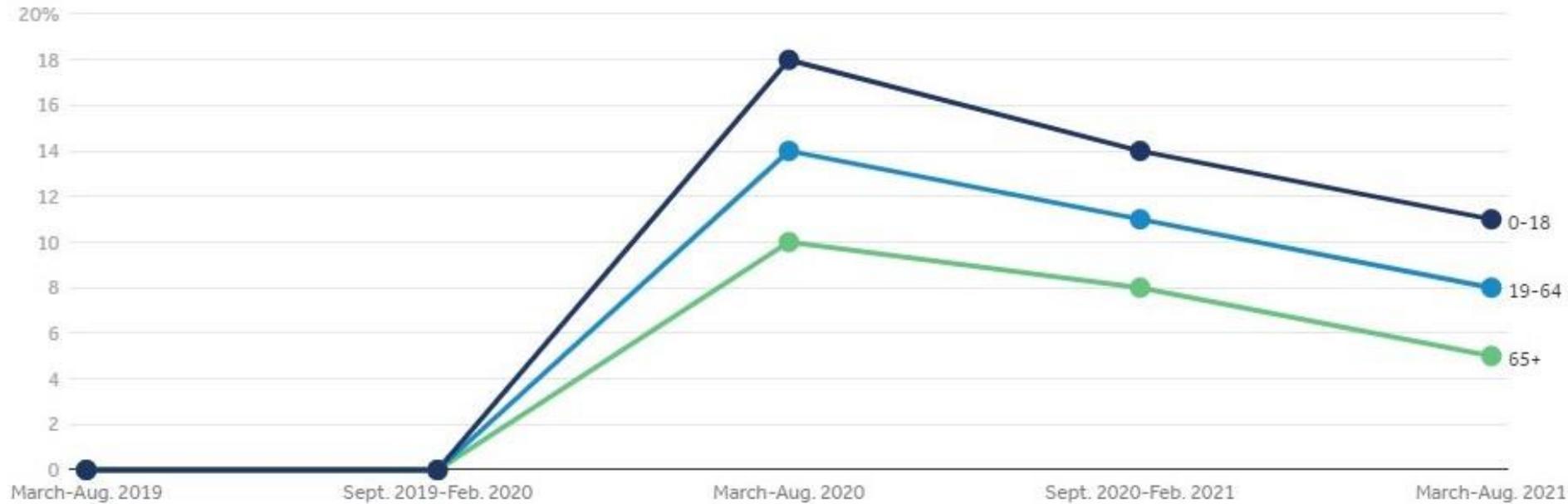
Rapid increase in telehealth visits during March 2020

FIGURE 1. Number of telehealth patient encounters reported by four telehealth providers that offer services in all states and percentage change in telehealth encounters and emergency department (ED) visits — United States, January 1–March 30, 2019 (comparison period) and January 1–March 28, 2020 (early pandemic period)*



Telehealth now accounts for 8% of outpatient visits

Share of outpatient visits by telehealth, by age groups



Source: KFF and Epic Research analysis of Cosmos Data • [Get the data](#) • PNG

Peterson-KFF
Health System Tracker 



Telemedicine offers unique opportunities and challenges related to treating common infections

- **Increased access** to care
- **Equity** considerations related to technology
- **Flexibility** in delivery modality (video, phone, asynchronous messaging)
- Less opportunities for **physical exam or laboratory testing**
- Opportunity for time-of-prescribing **clinical decision support** in electronic format
- **Patient expectations**, particularly related to telemedicine platforms where antibiotics have been advertised

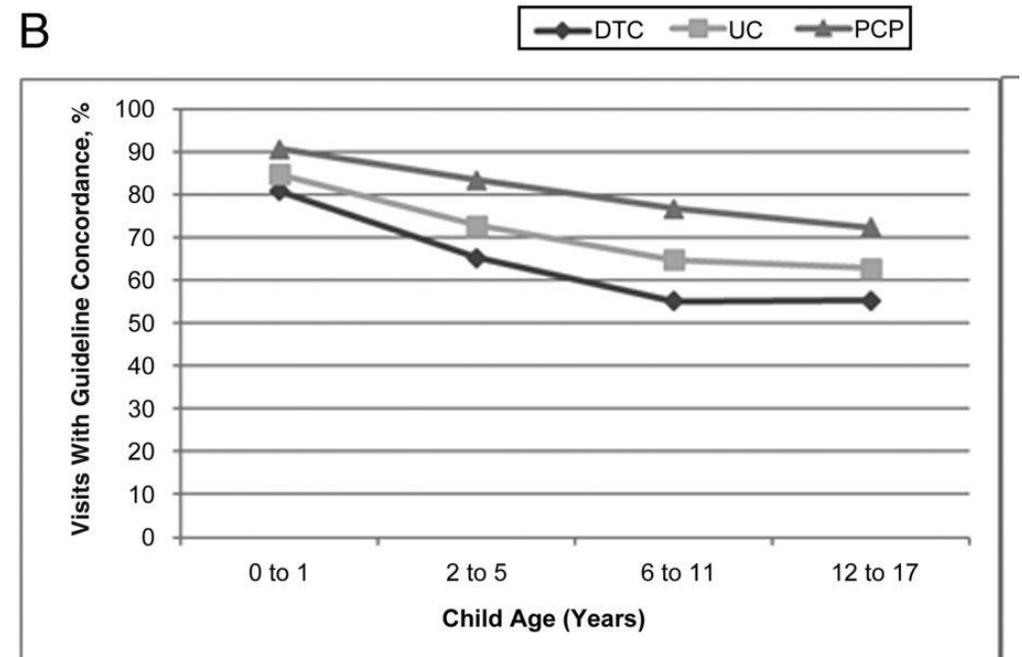
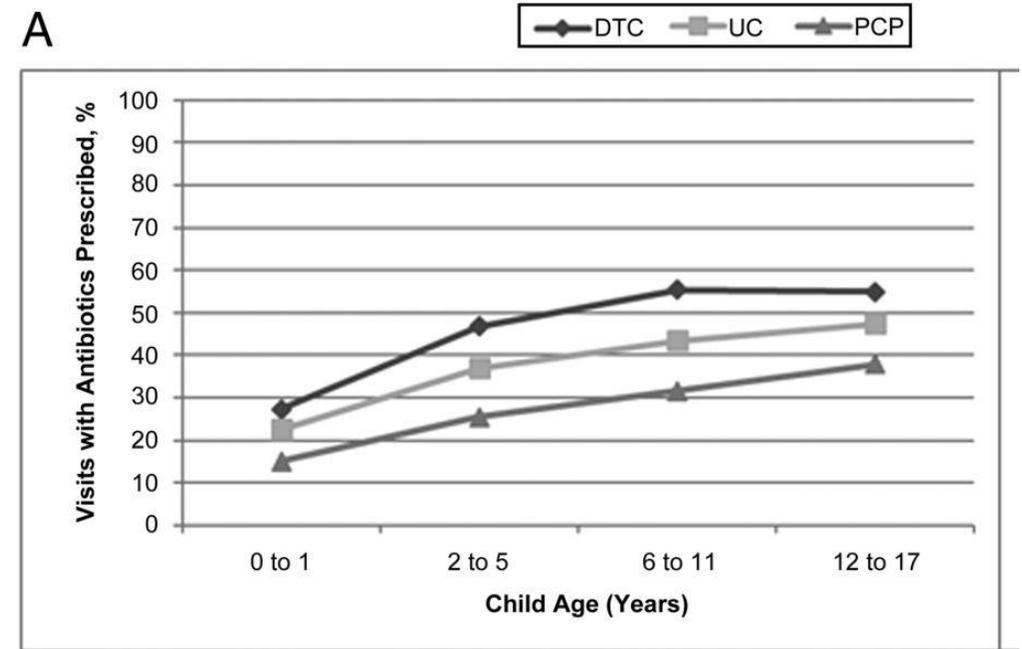
Antibiotic prescribing to children for acute respiratory infections differed by outpatient setting

Antibiotic prescribing in visits for ARI:

- 52% of Telemedicine visits
- 42% of Urgent care visits
- 31% of Primary care visits

Guideline-concordant antibiotics for ARI:

- 59% of Telemedicine visits
- 67% of Urgent care visits
- 78% Primary care visits



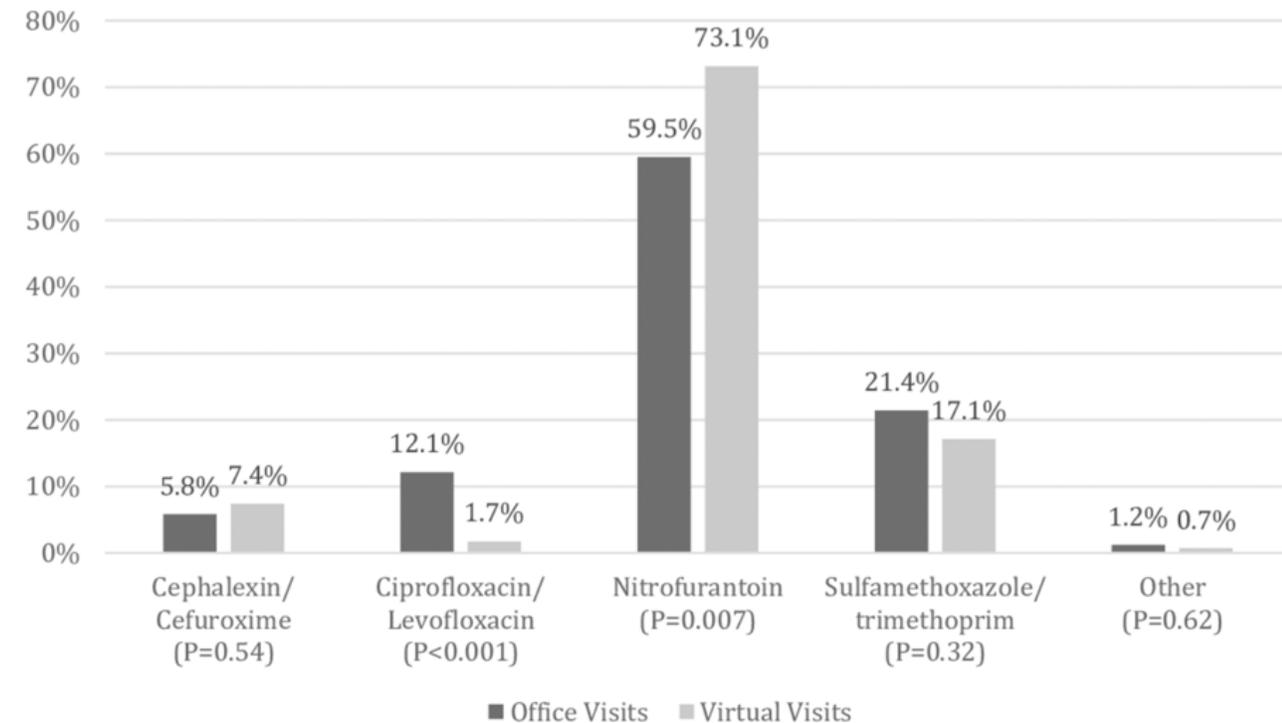
Antibiotic prescribing to women with uncomplicated urinary tract infections differed by setting

Virtual visits were more likely to receive:

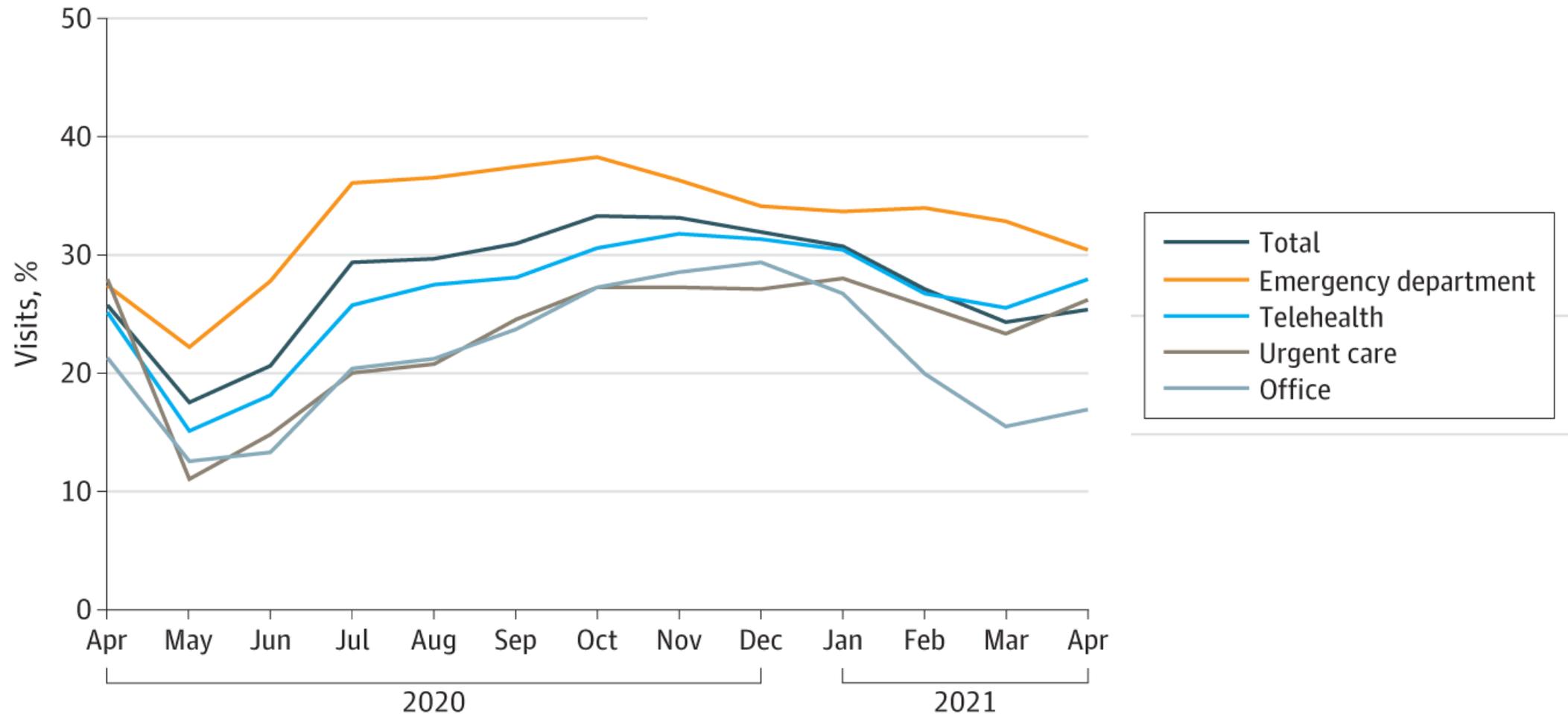
- First line antibiotic agent (75 vs 60%)
- Guideline-concordant duration (100 vs 53%)

Virtual visits were less likely to have:

- a urinalysis (0 vs 97%)
- a urine culture (0 vs 73%)
- revisit within 7 days (5 vs 19%)



Antibiotic prescribing to older adults with COVID-19 was common across outpatient settings



Resources for getting started with outpatient stewardship

Core Elements of Outpatient Antibiotic Stewardship

Continuing Education Examination available at <http://www.cdc.gov/mmwr/cme/conted.html>.



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention



The Core Elements of Outpatient Antibiotic Stewardship



Commitment

Demonstrate dedication to and accountability for optimizing antibiotic prescribing and patient safety



Action for policy & practice

Implement at least one policy or practice to improve antibiotic prescribing, assess whether it is working, and modify as needed



Tracking & Reporting

Monitor antibiotic prescribing practices and offer regular feedback to clinicians or have clinicians assess their own antibiotic use



Education & Expertise

Provide educational resources to clinicians and patients on antibiotic prescribing and ensure access to needed expertise on antibiotic prescribing



Core Element: Commitment

Demonstrate dedication to and accountability for optimizing antibiotic prescribing and patient safety **by doing one of the following:**

Clinicians	Organizational Leadership
<ul style="list-style-type: none">• Write and display public commitments in support of antibiotic stewardship	<ul style="list-style-type: none">• Identify a single leader to direct antibiotic stewardship activities within a facility• Include stewardship-related duties in position descriptions or job evaluation criteria• Communicate with all clinic staff to set patient expectations

Commitments posters display public commitment to antibiotic stewardship

A Commitment to Our Patients About Antibiotics

Antibiotics only fight infections caused by bacteria. Like all drugs, they can be harmful and should only be used when necessary. Taking antibiotics when you have a virus can do more harm than good: you will still feel sick and the antibiotic could give you a skin rash, diarrhea, a yeast infection, or worse.

Antibiotics also give bacteria a chance to become more resistant to them. This can make future infections harder to treat. It means that antibiotics might not work when you really do need them. Because of this, it is important that you only use an antibiotic when it is necessary to treat your illness.

How can you help? When you have a cough, sore throat, or other illness, tell your doctor you only want an antibiotic if it is really necessary. If you are not prescribed an antibiotic, ask what you can do to feel better and get relief from your symptoms.

Your health is important to us. As your healthcare providers, we promise to provide the best possible treatment for your condition. If an antibiotic is not needed, we will explain this to you and will offer a treatment plan that will help. We are **dedicated** to prescribing antibiotics **only** when they are needed, and we will avoid giving you antibiotics when they might do more harm than good.

If you have any questions, please feel free to ask us.

Sincerely,

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use.



Your health is important to me.



That's why I'm signing the "Smart Use Guarantee."

Antibiotics don't work for viral infections like the common cold, most coughs, and most sore throats. Taking antibiotics when they don't work can do more harm than good by causing stomach upset, diarrhea, or allergic reactions.

I guarantee I will do my best to prescribe antibiotics only when you need them.

Antibiotics can be life-saving, but bacteria are becoming more resistant. If we're not careful about how we prescribe and use the antibiotics we've relied on for years, they might not work for us in the future. To learn more visit: cdc.gov.

Signature(s)

Sharon Tsay, MD





Core Element: Action

Implement **at least one** policy or practice to improve antibiotic prescribing, assess whether it is working, and modify as needed

Clinicians	Organizational Leadership
<ul style="list-style-type: none">• Use evidence-based diagnostic criteria and treatment recommendations• Use delayed prescribing practices or watchful waiting, when appropriate	<ul style="list-style-type: none">• Provide communications skills training for clinicians• Require explicit written justification in the medical record for nonrecommended antibiotic prescribing• Provide support for clinical decisions• Use call centers, nurse hotlines, or pharmacist consultations as triage systems to prevent unnecessary visits

Clinicians can increase their use of delayed prescribing when indicated

What Is Delayed Prescribing?



WAIT. DO NOT FILL YOUR PRESCRIPTION JUST YET.

Your healthcare professional believes your illness may resolve on its own.

First, follow your healthcare professional's recommendations to help you feel better without antibiotics. Continue to monitor your own symptoms over the next few days.

- Rest.
- Drink extra water and fluids.
- Use a cool mist vaporizer or saline nasal spray to relieve congestion.
- For sore throats in adults and older children, try ice chips, sore throat spray, or lozenges.
- Use honey to relieve cough. Do not give honey to an infant younger than 1.

If you **do not feel better** in ___ days/hours or **feel worse**, go ahead and fill your prescription.

If you **feel better**, you do not need the antibiotic, and do not have to risk the side effects.

Waiting to see if you really need an antibiotic can help you take antibiotics only when needed. When antibiotics aren't needed, they won't help you, and the side effects could still hurt you. Common side effects of antibiotics can include rash, dizziness, nausea, diarrhea, and yeast infections.

Antibiotics save lives, and when a patient needs antibiotics, the benefits outweigh the risks of side effects. You can protect yourself and others by learning when antibiotics are and are not needed.

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use.



What Is Watchful Waiting?



WAIT. DO NOT FILL YOUR PRESCRIPTION JUST YET.

Your healthcare professional believes your illness may go away on its own.

You should watch and wait for ___ days/hours before deciding whether to take an antibiotic.

In the meantime, follow your healthcare professional's recommendations to help you feel better and continue to monitor your own symptoms over the next few days.

- Rest.
- Drink extra water and fluids.
- Use a cool mist vaporizer or saline nasal spray to relieve congestion.
- For sore throats in adults and older children, try ice chips, sore throat spray, or lozenges.
- Use honey to relieve cough. Do not give honey to an infant younger than 1.

If you **feel better**, no further action is necessary. You don't need antibiotics.

If you **do not** feel better, experience **new symptoms**, or have **other concerns**, call your healthcare professional _____. Discuss whether you need a recheck or antibiotics.

It may not be convenient to visit your healthcare professional multiple times, but it is critical to take antibiotics only when needed. When antibiotics aren't needed, they won't help you and the side effects could still hurt you. Common side effects of antibiotics can include rash, dizziness, nausea, diarrhea, and yeast infections.

Antibiotics save lives, and when a patient needs antibiotics, the benefits outweigh the risks of side effects. You can protect yourself and others by learning when antibiotics are and are not needed.

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use.





Core Element: Tracking and Reporting

Monitor antibiotic prescribing practices and offer regular feedback to clinicians or have clinicians assess their own antibiotic prescribing practices themselves

Clinicians	Organizational Leadership
<ul style="list-style-type: none">• Self-evaluate antibiotic prescribing practices• Participate in continuing medical education and quality improvement activities to track and improve antibiotic prescribing	<ul style="list-style-type: none">• Implement at least one antibiotic prescribing tracking and reporting system• Assess and share performance on quality measures and established reduction goals addressing appropriate antibiotic prescribing from health care plans and payers

Audit and feedback with peer comparison is an evidence-based antibiotic stewardship intervention

Chart Icd Antibiotics Stewardship Diagnosis Category ^		Antibiotics Prescription Rate
1	BRONCHITIS	33%
2	PHARYNGITIS	56%
3	SINUSITIS	70%
4	URI	6%

Provider Last Name	Provider First Name	Chart Icd Antibiotics Stewardship Diagnosis Category ^	Call Prescriptions Aggregate Antibiotics Calls	Call Count	Antibiotics Prescription Rate	
1		BRONCHITIS		2	50	4%
2		PHARYNGITIS		2	7	29%
3		SINUSITIS		1	6	17%
4		URI		3	150	2%

Last Name	First Name	Antibiotics Stewardship Diagnosis Category	Email	Difference From Practice
		BRONCHITIS		-29%
		PHARYNGITIS		-27%
		SINUSITIS		-53%
		URI		-4%

Antibiotic report card from Du Yan et al. *JGIM* 2021.



[Name]
[Title]
[Address 1]
[City] [State] [Zip]

Dear X,

I am writing to ask for your help in promoting appropriate antibiotic use to protect patients from harms caused by unnecessary antibiotic use and combat antibiotic resistance, one of the most urgent threats to the public's health.

Antibiotics are powerful tools we have to fight life-threatening infections, like those that can lead to sepsis. However, anytime they are used, they can cause side effects and lead to antibiotic resistance. Side effects can include rash, dizziness, nausea, diarrhea, and yeast infections, but also more serious conditions like *C. difficile* infection and severe or life-threatening allergic reactions. Infections caused by antibiotic-resistant bacteria often require extended hospital stays, additional follow-up visits to healthcare providers, and treatments that may be more costly and potentially more toxic.¹

[STATE HD] is working to combat the growing threat of antibiotic resistance and improve patient safety by participating in a Centers for Disease Control and Prevention (CDC) initiative to improve antibiotic prescribing. As part of this effort, [STATE HD] is identifying and alerting providers who are writing a higher number of antibiotic prescriptions than other clinicians in our state.

You prescribe more antibiotics than the majority (90%) of **Insert Specialty** in **Insert State**.

This analysis was based upon the number of antibiotic prescriptions dispensed from community pharmacies in 2018 from data provided by IQVIA, a research organization participating in CDC's Antimicrobial Resistance (AMR) Challenge to fight antibiotic resistance across the globe.² While volume of antibiotic prescribing does not indicate appropriateness, we hope you will consider taking the following actions and using the below tools to optimize antibiotic prescribing:

1. Display a personalized commitment poster³ to communicate your commitment to using antibiotics appropriately with your patients.
2. Communicate to patients why antibiotics are not needed for certain infections – you can use the enclosed CDC factsheet: "Viruses or Bacteria: What's got you sick?"⁴
3. Take the CDC Training on Antibiotic Stewardship to learn more about appropriate antibiotic use.⁵

CDC's national campaign, *Be Antibiotics Aware*, aims to raise awareness about antibiotic resistance and the importance of appropriate antibiotic prescribing and use among healthcare providers, patients, and their families. We encourage you to visit the *Be Antibiotics Aware* campaign website to find resources that you can use to educate your patients about appropriate antibiotic use: www.cdc.gov/antibiotic-use.

Antibiotic prescribing is a complex issue, but there are simple changes that we can all make that will have the potential for big impact. We look forward to collaborating with you to improve patient safety and combat antibiotic resistance.

Sincerely,

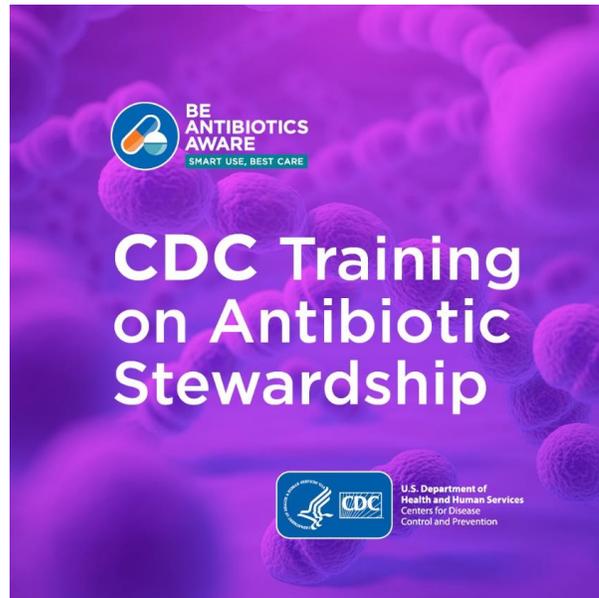


Core Element: Education and Expertise

- Provide educational resources to clinicians and patients on antibiotic prescribing and ensure access to needed expertise on optimizing antibiotic prescribing
- Inappropriate antibiotic prescribing is rarely due to clinical knowledge gaps alone

Clinicians	Organizational Leadership
<ul style="list-style-type: none">• Use effective communications strategies to educate patients about when antibiotics are and are not needed• Educate about the potential harms of antibiotic treatment• Provide patient education materials	<ul style="list-style-type: none">• Provide face-to-face educational training (academic detailing)• Provide continuing education activities for clinicians• Ensure timely access to persons with expertise

Improving communication strategies and educating patients



Viruses or Bacteria

What's got you sick?

Common Respiratory Infections	Common Cause			Are Antibiotics Needed?
	Virus	Virus or Bacteria	Bacteria	
Common cold/runny nose	✓			No
Sore throat (except strep)	✓			No
COVID-19	✓			No
Flu	✓			No
Bronchitis/chest cold (in otherwise healthy children and adults)*		✓		No*
Middle ear infection		✓		Maybe
Sinus infection		✓		Maybe
Strep throat			✓	Yes
Whooping cough			✓	Yes

* Studies show that in otherwise healthy children and adults, antibiotics for bronchitis won't help you feel better.

To learn more about antibiotic prescribing and use, visit www.cdc.gov/antibiotic-use.

<https://www.uwimtr.org/dart/>

https://www.train.org/cdctrain/training_plan/3697

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

What's new in outpatient antibiotic stewardship?



Proven prevention efforts should be expanded and sustained.

Over the next 5 years, CDC will invest **\$2.1 billion** through the American Rescue Plan to enhance infection prevention and control and antibiotic stewardship across U.S. public health and health care.

This funding will allow the U.S. to strengthen and equip U.S. health departments and other partner organizations:

- Expand support to healthcare facilities to improve the quality of health care
- Assist healthcare workers in preventing infections, support rapid response to detect and contain infectious organisms and engage in innovations to combat infectious disease threats
- Address the rise of healthcare associated infections and antibiotic resistance threats

CDC is transforming its public health research, surveillance, and implementation science efforts to shift from simply listing the markers of health inequities to identifying and addressing the drivers of these disparities.

C

CULTIVATE Comprehensive health equity science

CDC will embed health equity principles in the design, implementation, and evaluation of its research, data, surveillance, and interventions strategies.

O

OPTIMIZE interventions

CDC will use scientific, innovative and data-driven intervention strategies that address environmental, place-based, occupational, policy and systemic factors that impact health outcomes and address drivers of health disparities.

R

REINFORCE and expand robust partnerships

CDC will seek out and strengthen sustainable multi-level, multi-sectoral and community partnerships to advance health equity.

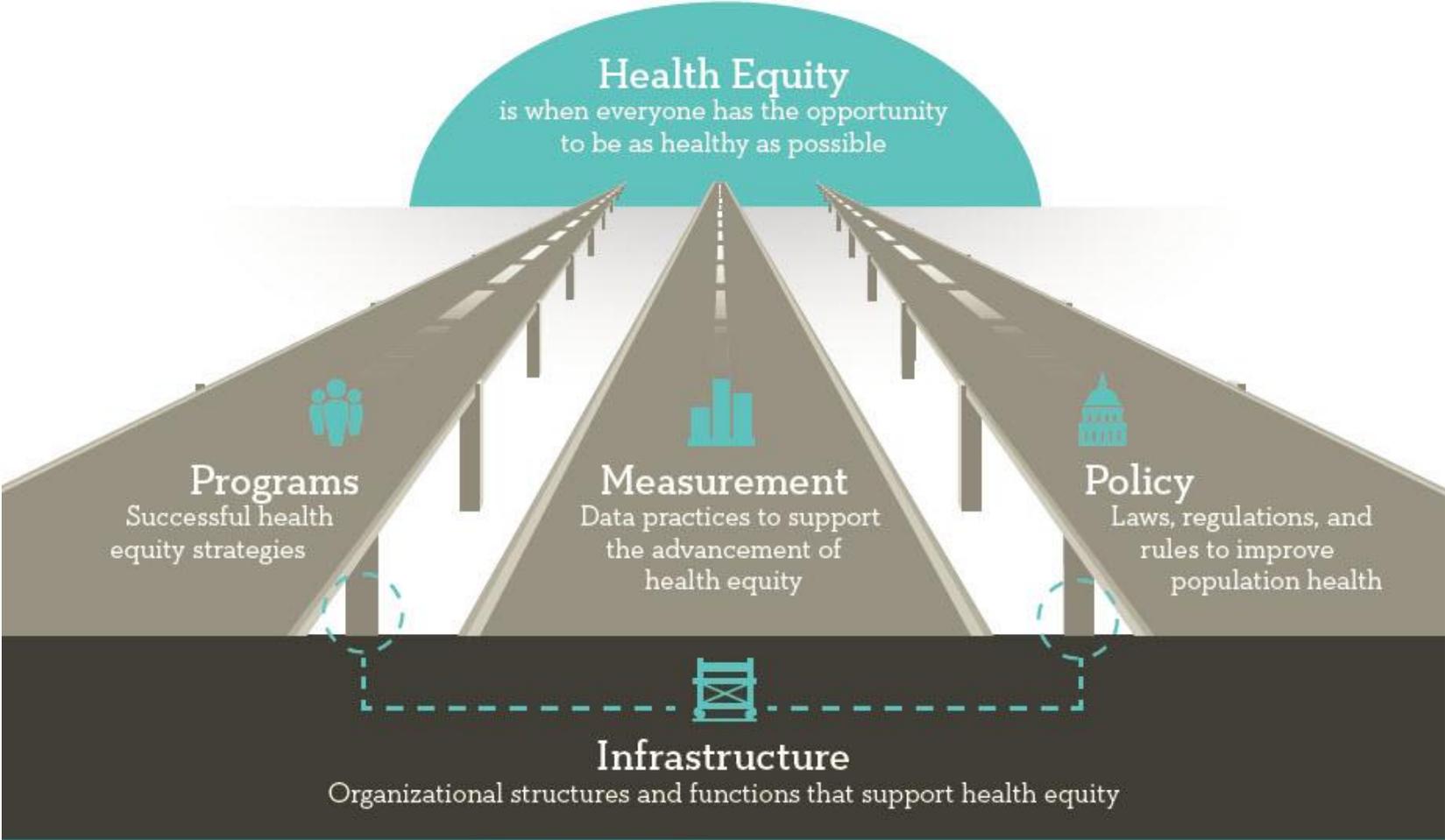
E

ENHANCE capacity and workforce engagement

CDC will build internal capacity to cultivate a multi-disciplinary workforce and more inclusive climates, policies, and practices for broader public health impact.

PAVING THE ROAD TO HEALTH EQUITY

Health Equity
is when everyone has the opportunity
to be as healthy as possible



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

C1244457

<https://www.cdc.gov/healthequity/index.html>

Conclusions

- Antibiotic prescribing decreased on the national level during the COVID pandemic, but is rebounding, and there is room for improvement
 - Decreasing unnecessary prescriptions
 - Improving quality (selection, dosing, duration)

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- Current national priorities include expanding existing stewardship work in public health jurisdictions and actively incorporating health equity goals

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- Current national priorities include expanding existing stewardship work in public health jurisdictions and actively incorporating health equity goals

We can improve antibiotic prescribing together!

STsay@cdc.gov
AntibioticUse@cdc.gov

For more information, contact CDC
1-800-CDC-INFO (232-4636)
TTY: 1-888-232-6348 www.cdc.gov

**U.S. ANTIBIOTIC
AWARENESS WEEK**
November 18–24, 2022
www.cdc.gov/antibiotic-use



**BE
ANTIBIOTICS
AWARE**
SMART USE, BEST CARE



CS331970-A

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





Q&A

Supplemental Materials

Centers for Disease Control and Prevention Antibiotic Use Resources

[Español](#) | [Other Languages](#)



Antibiotic Prescribing and Use

FOR HEALTHCARE PROFESSIONALS

Antibiotics and Adverse Events



Antibiotics are responsible for almost **1 out of 5** emergency department visits for adverse drug events.¹



Antibiotics are **the most common cause** of emergency department visits for adverse drug events in children under 18 years of age.¹

Anytime antibiotics are prescribed, they can cause adverse events. Only prescribe antibiotics when clinically indicated.

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¹Shehbab N, et al. JAMA. 2016 Nov;316(20):2115-25



CDC40816A

Continuing Medical Education and Informational Resources

Healthcare Professional Resources

Patient Resources and Education

Visit the [CDC's Antibiotic Prescribing and Use page](#) to access multiple resources and training videos for your use

Thank You

Steps to claim continuing education credits

1. Register for your course

- Navigate to education.ncqa.org
- Select Login with NCQA Account
- Select “Create Account” if you do not have an existing account, complete the requested information to complete the form and to gain access to the account. If you have an existing account, log in using those same credentials.
- Once you have logged on, click the course link to register: [What’s New in Antibiotic Stewardship? Part Two: Impacts of COVID and Use of Telehealth](#)

2. Complete your course and download your certificate

- Complete the Evaluation and Attestation to gain access to your certificate.
- Click on your name at the top right to select your profile.
- On profile, please be sure you have entered your Name and Credential(s) as they should appear on your certificate by clicking “edit” → “info” → “save”
- Select Awards on the left to retrieve the certificate and download the PDF file
- If you are a pharmacist completing a course offering CPE credits, please notify NCQA through ncqa.org within 14 calendar days that you have completed a CPE course. You must provide the title of the course, your NABP identification number and your DOB (month/date) within the notification to NCQA. We also recommend you update your education.ncqa.org profile with your NABP identification number