

Get Smart

Preserving the Power of Antibiotics

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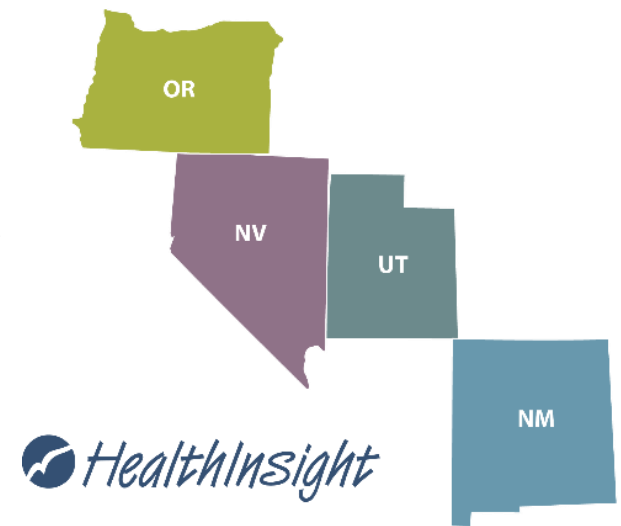
Susan Yates-Miller, Carrie Beck
Oregon

HealthInsight

Quality Innovation Network-Quality Improvement Organization (QIN-QIO)

CMS Quality Strategy:

- Eliminating disparities
- Strengthening infrastructure and data systems
- Enabling innovation
- Fostering learning organizations



Source: Quality Improvement Organizations. 2014. About QIN-QIOs, QIO Program Fact Sheet. Accessed March 20, 2017: qioprogram.org/about/why-cms-has-qios

Polling Question

Antibiotic resistance causes how much financial burden in excess direct healthcare costs annually (data from 2013)?

- a. \$500 million
- b. \$1 billion
- c. \$5 billion
- d. \$10 billion
- e. \$20 billion

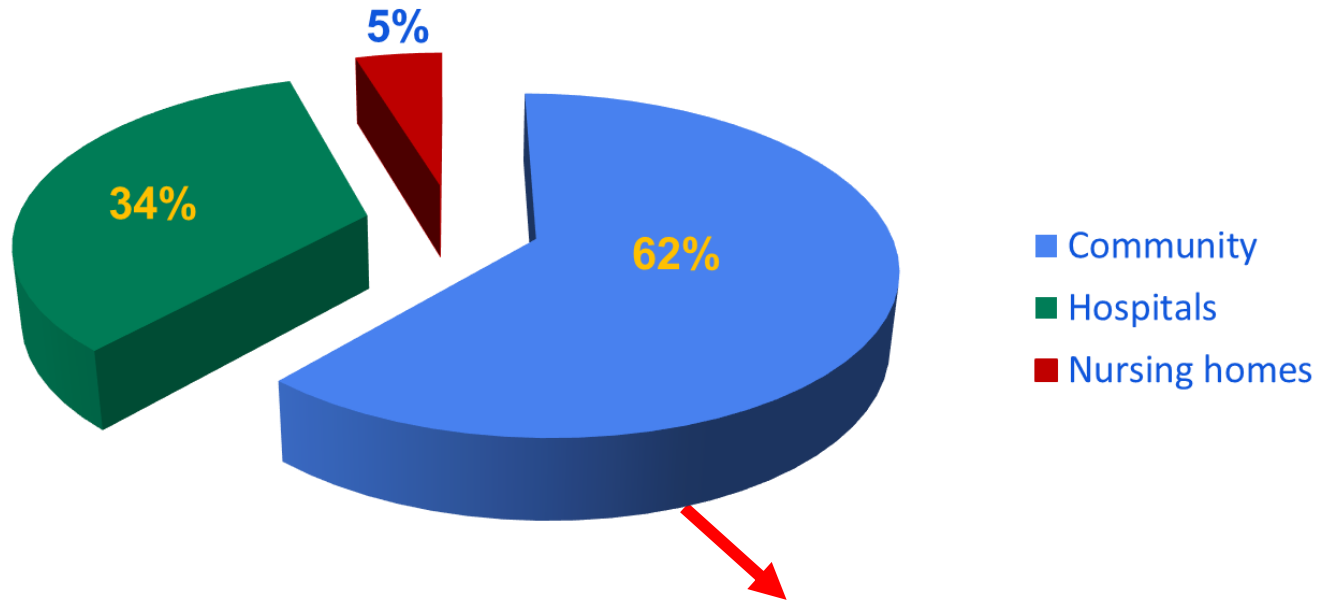
CDC. Antibiotic resistance threats in the United States, 2013. www.cdc.gov/drugresistance/threat-report-2013/

About Antibiotic Use and Resistance

- Life saving antibiotics no longer work as well
- Main reason: 30%-50% overuse and misuse
 - Antibiotics won't work for colds or flu
 - They can cause more harm than good
 - Most common reason for child emergency visits for adverse drug events (20%)
 - Kill healthy gut bacteria allowing *C. difficile* overgrowth
 - Misdiagnosis of infections is common
- Use only for sensitive bacterial infections

Antibiotic Expenditures in United States by Treatment Setting

Total 2009 cost: \$10.7 billion



Estimated 80-90% of antibiotic use
occurring in outpatient setting

Suda et al. J Antimicrob Chemother 2013; 68: 715–718
https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/362374/ESPAUR_Report_2014_3_.pdf
<https://www.folkhalsomyndigheten.se/pagefiles/20281/Swedres-Svarm-2014-14027.pdf>

Polling Question

What percentage of antibiotics prescribed in 2011–2012 in outpatient settings (clinician offices and emergency departments) were found to be unnecessary prescriptions?

- a. 3%
- b. 5%
- c. 10%
- d. 20%
- e. 30%

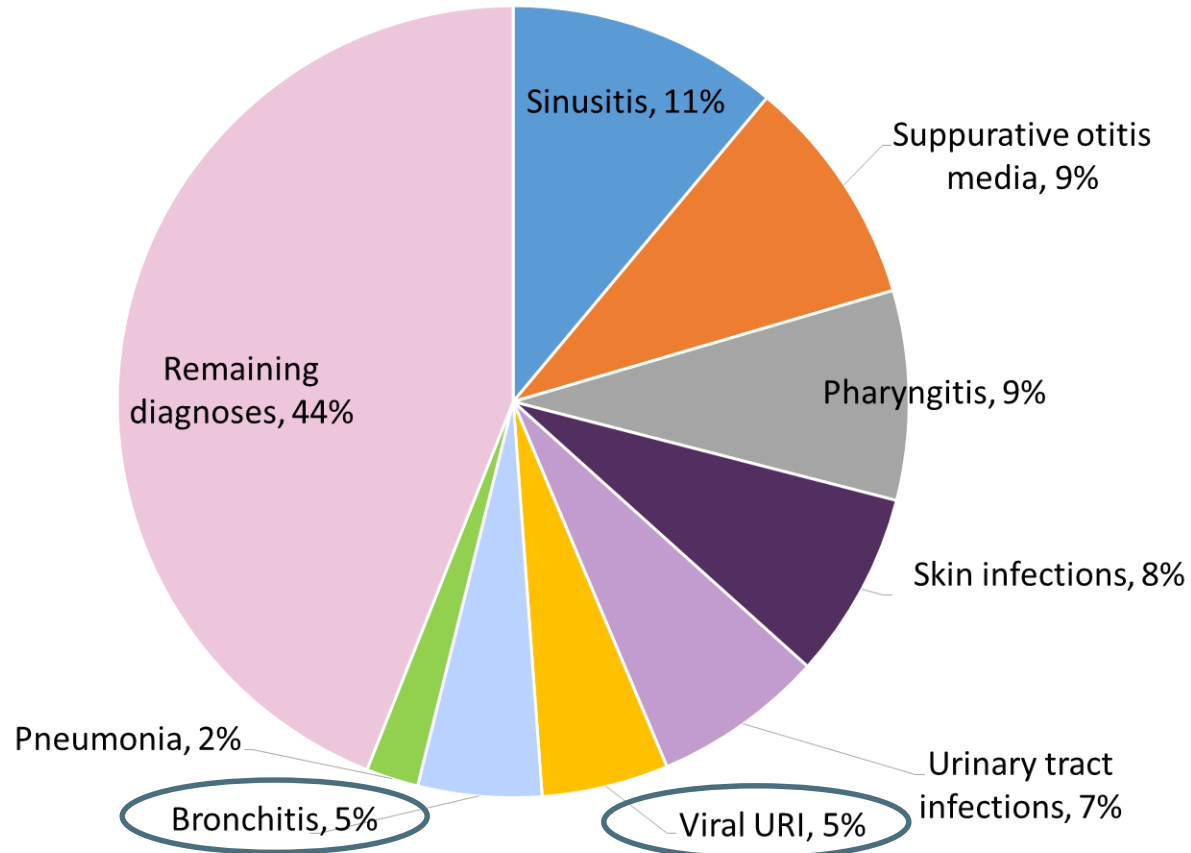
Source: Analysis of NAMCS and NHAMCS data on U.S. antibiotic prescribing, 2010-2011
© 2016 The Pew Charitable Trusts

About Common Illnesses And Symptom Relief

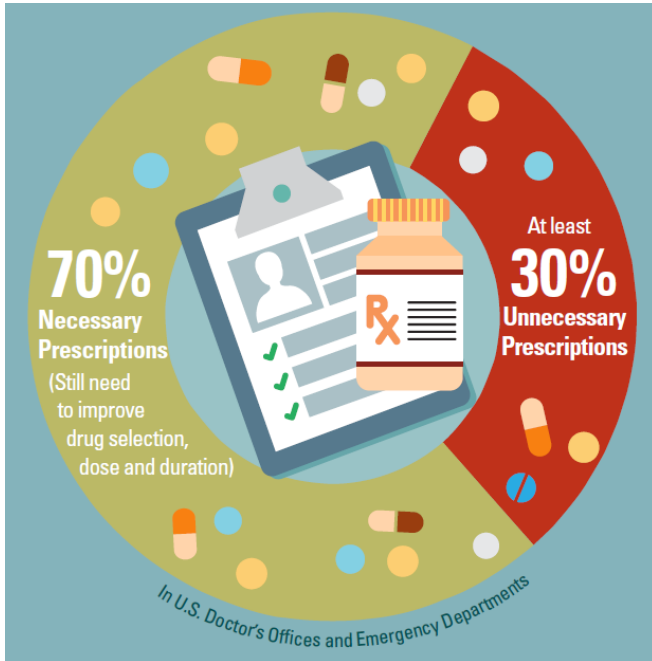
- Chest Cold (Bronchitis)
- Common Cold (Runny Nose)
- Ear Infection
- Flu (Influenza)
- Sinus Infection
- Sore Throat
- Urinary Tract Infection

*“Patient satisfaction with care for acute bronchitis depends most on physician–patient communication rather than on antibiotic treatment.”
From: Annals of Internal Medicine, 2001*

Diagnoses Leading to Antibiotics — United States, 2010–2011



Setting National Targets: Outpatient Antibiotic Prescribing



47 million unnecessary antibiotic prescriptions per year

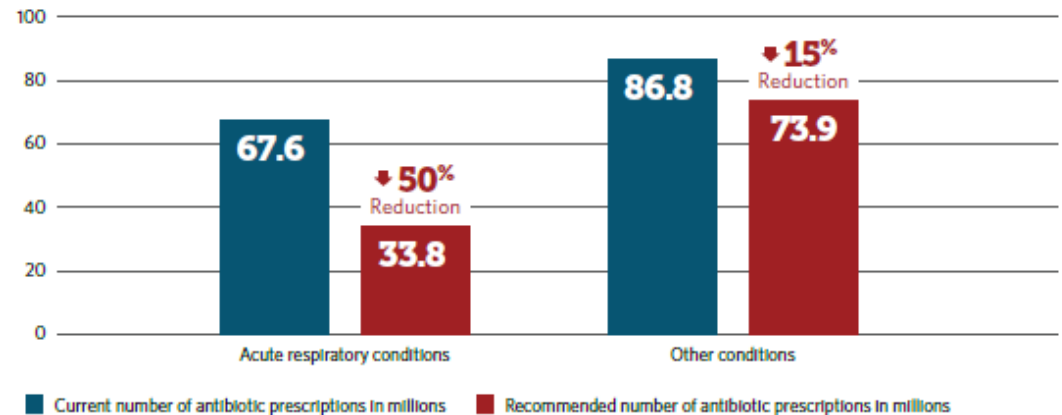
Fleming-Dutra et al. JAMA 2016;315(17): 1864-1873.

<http://www.pewtrusts.org/~media/assets/2016/05/antibioticuseinoutpatientsettings.pdf>; CARB Action Plan

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Outpatient Antibiotic Prescribing Reduction Targets



Source: Analysis of NAMCS and NHAMCS data on U.S. antibiotic prescribing, 2010-2011

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By 2020, significant outcomes of Goal 1 will include: **(CARB National Action Plan)**

- Establishment of antibiotic stewardship programs in all acute care hospitals and improved antibiotic stewardship across all healthcare settings.
- Reduction of inappropriate antibiotic use by 50% in outpatient settings and by 20% in inpatient settings.

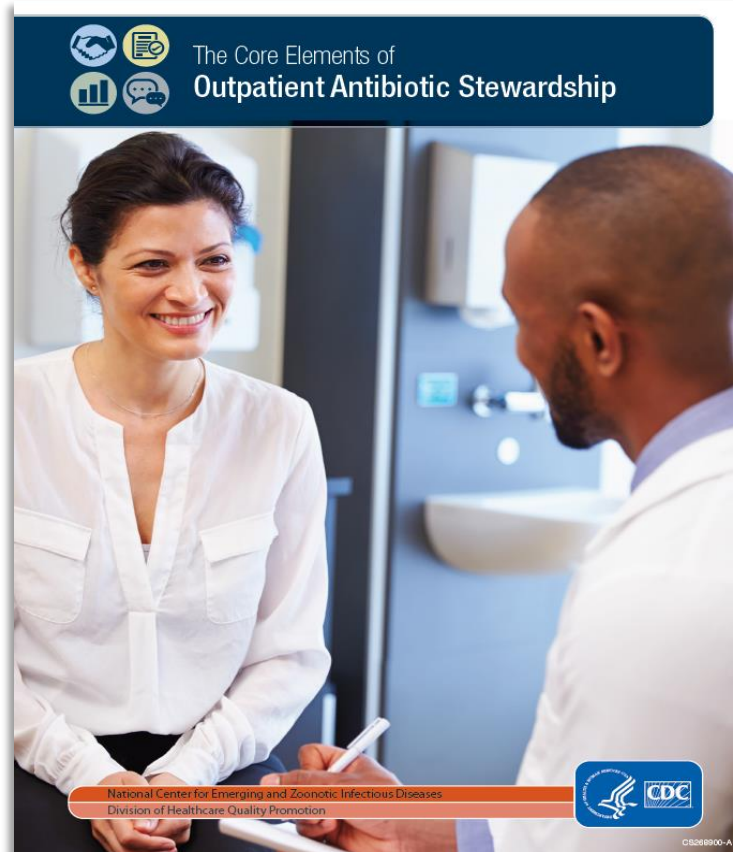
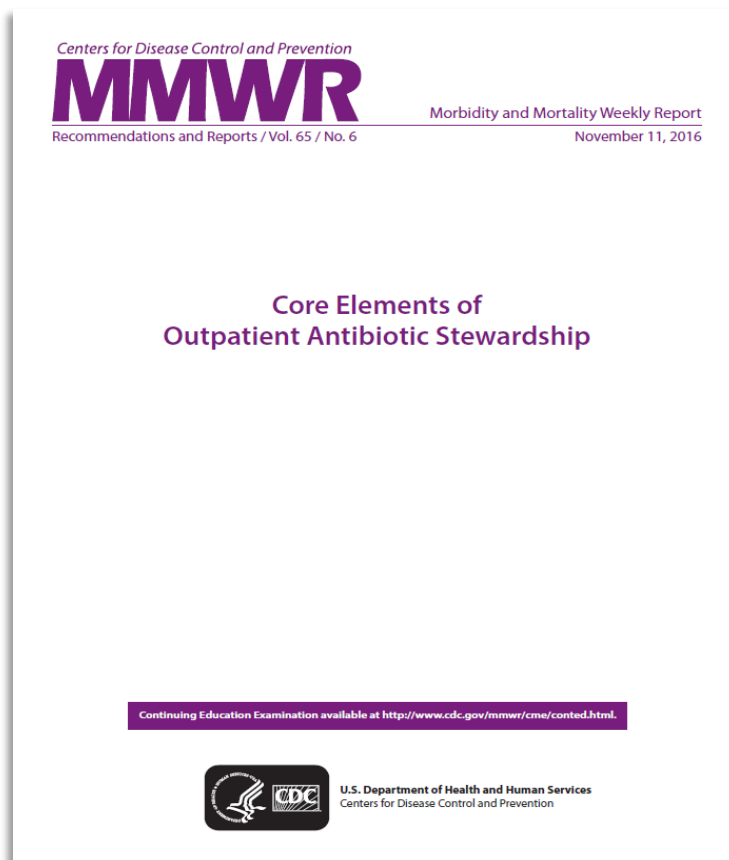
Get Smart: Preserving the Power of Antibiotics

- Join us today!

HealthInsight initiative for antibiotic stewardship in outpatient settings:

- Patient education materials
- Program assessment, technical assistance with prescription protocols and measurement
- Professional education, learning and action network activities
- Based on CDC's *Core Elements of Outpatient Antibiotic Stewardship*
- Aligned with practice transformation approaches
 - Implementing the Core Elements is an Improvement Activity for QPP

Core Elements of Outpatient Antibiotic Stewardship



Sanchez GV, Fleming-Dutra KE, Roberts RM, Hicks LA. Core Elements of Outpatient Antibiotic Stewardship. MMWR Recomm Rep 2016;65(No. RR-6):1-12. https://www.cdc.gov/mmwr/volumes/65/rr/rr6506a1.htm?s_cid=rr6506a1_e

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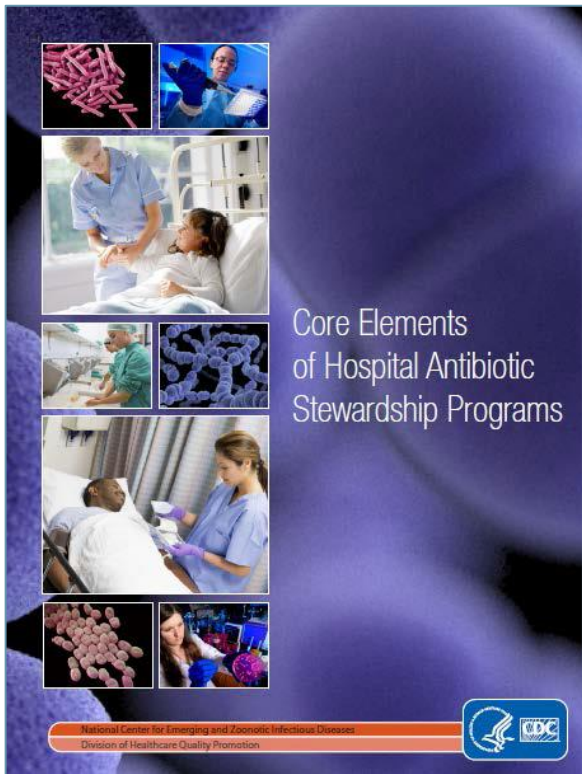


CDC Core Elements

2014

2015

2016

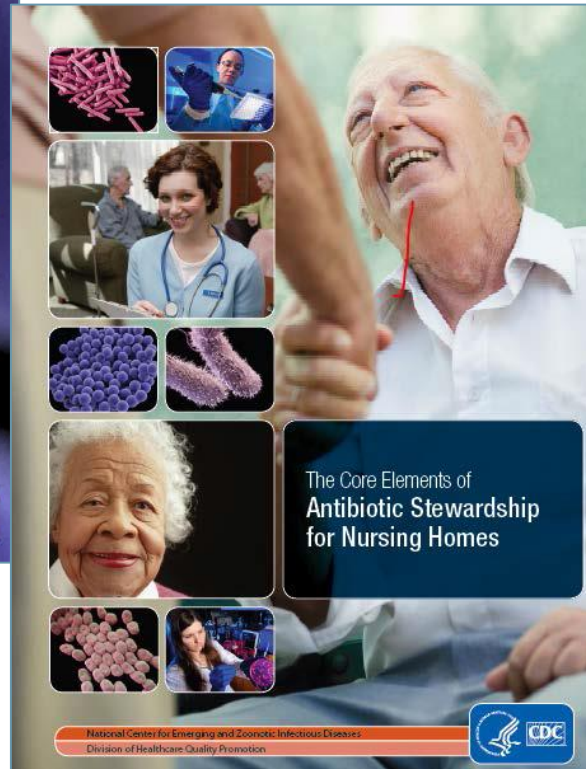


Core Elements of Hospital Antibiotic Stewardship Programs

National Center for Emerging and Zoonotic Infectious Diseases
Division of Healthcare Quality Promotion

CDC

This infographic features a central image of a nurse attending to a patient in a hospital bed. Surrounding this are several smaller images: pink antibiotic pills, a person wearing blue gloves, a close-up of blue bacteria, a nurse at a computer, a nurse with a patient, and a close-up of purple bacteria. The CDC logo is at the bottom right.

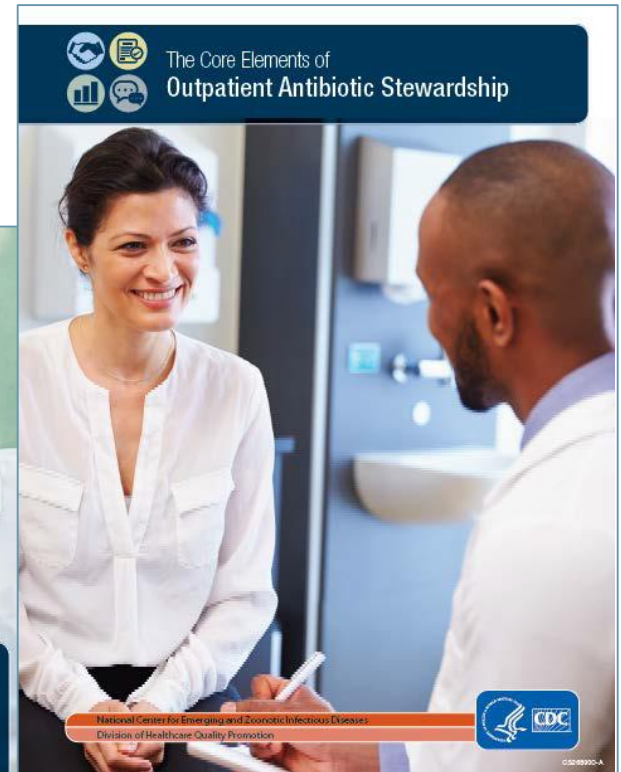


The Core Elements of Antibiotic Stewardship for Nursing Homes

National Center for Emerging and Zoonotic Infectious Diseases
Division of Healthcare Quality Promotion

CDC

This infographic features a central image of an elderly man laughing. Surrounding this are several smaller images: pink antibiotic pills, a person wearing blue gloves, a nurse at a computer, a close-up of purple bacteria, a close-up of pink antibiotic pills, and a close-up of purple bacteria. The CDC logo is at the bottom right.



The Core Elements of Outpatient Antibiotic Stewardship

National Center for Emerging and Zoonotic Infectious Diseases
Division of Healthcare Quality Promotion

CDC

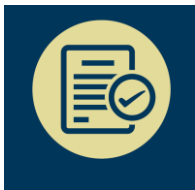
This infographic features a central image of a female doctor smiling and talking to a male doctor. Surrounding this are several smaller images: a person wearing blue gloves, a close-up of blue bacteria, a close-up of pink antibiotic pills, and a close-up of purple bacteria. The CDC logo is at the bottom right.



What Are the Core Elements?



- **Commitment:** demonstrate dedication to and accountability for optimizing antibiotic prescribing and patient safety



- **Action for policy and practice:** implement at least one policy or practice to improve antibiotic prescribing, assess whether it is working, and modify as needed



- **Tracking and Reporting:** monitor antibiotic prescribing practices and offer regular feedback to clinicians or have clinicians assess their own antibiotic use




- **Education and Expertise:** Provide educational resources to clinicians and patients on antibiotic prescribing and ensure access to needed expertise on antibiotic prescribing

<https://www.cdc.gov/getsmart/community/improving-prescribing/core-elements/core-outpatient-stewardship.html>

Aiming for Partners

 <i>An initiative of the ABIM Foundation</i>	ConsumerReportsHealth
	 AMERICAN ACADEMY OF FAMILY PHYSICIANS
	 FOUNDATION

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[AARP Home](#) » [AARP Blog](#) » antibiotics

antibiotics

Hospital Infections Kill 200 Patients a Day

1 in 4 Nursing Home Residents Has Antibiotic-Resistant Bacteria

[medlineplus.gov/news/fullstory_166075.html](https://www.medlineplus.gov/news/fullstory_166075.html)

Antibiotics for ear infections in children

When you need them—and when you don't




University of Nevada, Reno

Proceedings of the Nevada Antimicrobial Stewardship Summit-II

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MIPS and QPP



QPP: The Quality Payment Program

Guide to Reporting MIPS 9

Nine-Step Guide to Reporting in the Merit-based Incentive Payment System (MIPS)

- 1 Am I Included in MIPS?**

You are required to report MIPS in the Quality Payment Program for performance year 2017 unless you fall below the low volume threshold or are a Qualifying Participant in an Advanced Alternative Payment Model (APM).
Check to see if you need to participate using your NPI number: <https://app.cms.gov/learn/eligibility>
- 2 Decide if clinicians in your practice will participate as a group or individually.**

An individual is a single NPI tied to a single tax ID number. Medicare payment adjustment is based on individual performance.
A group is a set of clinicians sharing a common tax ID number whose Medicare payment adjustment is based on the group's performance.

Get Smart Tools and Resources

- Commitment poster for Core Element 1
- Resources from CDC and state coalitions
- Technical assistance for implementing the Core Elements

healthinsight.org/getsmart

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Preserving the Power of Antibiotics

We Are Committed to
Preserving the Power of Antibiotics

Antibiotics won't work for viruses like colds or the flu. Using them for viruses can put you at risk of getting a bacterial infection that's resistant to antibiotic treatment.

**Antibiotics are strong medicines.
We need to keep them that way.**

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Preserving the Power of Antibiotics

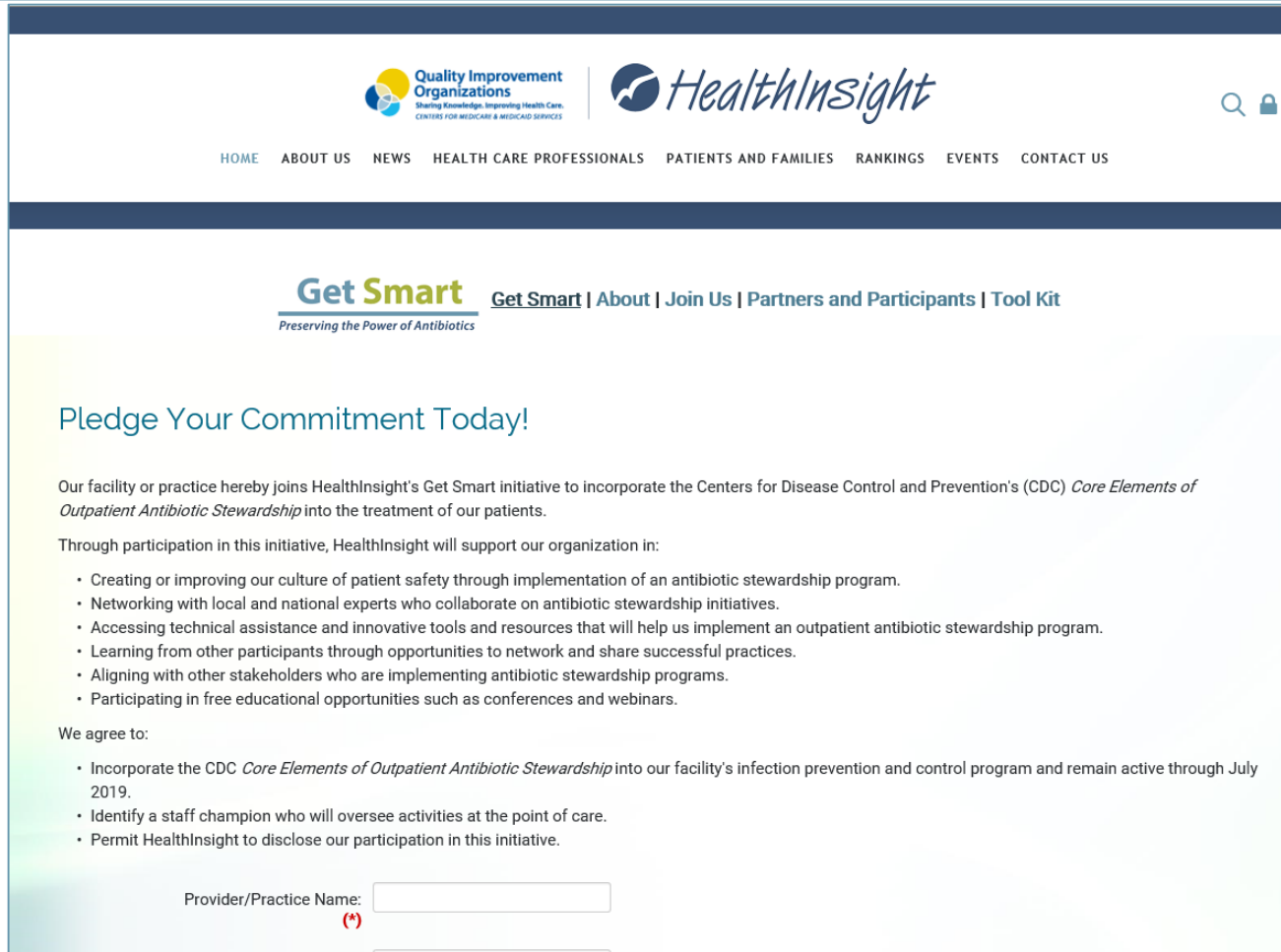
Oregon Health

Quality Improvement Organizations
Sharing Knowledge. Preserving Health Care.
CENTER FOR MEDICARE & MEDICAID SERVICES

HealthInsight

This material was prepared by HealthInsight, the Medicare Quality Improvement Network Quality Improvement Organization for Nevada, New Mexico, Oregon and Utah, under contract with the Centers for Medicare & Medicaid Services (CMS), an agency of the U.S. Department of Health and Human Services. The contents presented do not necessarily reflect CMS policy. 1150W-C3. 10-17-09-01

Get Smart: Preserving the Power of Antibiotics



The screenshot shows the top navigation bar with logos for Quality Improvement Organizations and HealthInsight. Below the navigation bar, the "Get Smart" logo is prominently displayed with the tagline "Preserving the Power of Antibiotics". A navigation menu includes links for Home, About Us, News, Health Care Professionals, Patients and Families, Rankings, Events, and Contact Us. The main content area features a "Pledge Your Commitment Today!" section. It contains a paragraph stating that the facility joins the initiative to incorporate CDC's Core Elements of Outpatient Antibiotic Stewardship. Below this, a list of benefits is provided, followed by a "We agree to:" section with a list of commitments. At the bottom, there is a form field for "Provider/Practice Name:" with a red asterisk indicating a required field.

Quality Improvement Organizations
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HealthInsight

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Pledge Your Commitment Today!

Our facility or practice hereby joins HealthInsight's Get Smart initiative to incorporate the Centers for Disease Control and Prevention's (CDC) *Core Elements of Outpatient Antibiotic Stewardship* into the treatment of our patients.

Through participation in this initiative, HealthInsight will support our organization in:

- Creating or improving our culture of patient safety through implementation of an antibiotic stewardship program.
- Networking with local and national experts who collaborate on antibiotic stewardship initiatives.
- Accessing technical assistance and innovative tools and resources that will help us implement an outpatient antibiotic stewardship program.
- Learning from other participants through opportunities to network and share successful practices.
- Aligning with other stakeholders who are implementing antibiotic stewardship programs.
- Participating in free educational opportunities such as conferences and webinars.

We agree to:

- Incorporate the CDC *Core Elements of Outpatient Antibiotic Stewardship* into our facility's infection prevention and control program and remain active through July 2019.
- Identify a staff champion who will oversee activities at the point of care.
- Permit HealthInsight to disclose our participation in this initiative.

Provider/Practice Name:

Join 500 providers working together for safer patient care!

Visit healthinsight.org/getsmart

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Questions?



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