

# Antimicrobial Stewardship in Illinois: What's New and How to Get Involved



U.S. ANTIBIOTIC AWARENESS WEEK November 18–24, 2023 www.cdc.gov/antibiotic-use

Jamie Jacob, PharmD, BCIDP Antimicrobial Stewardship Program, Pharmacist Consultant Illinois Department of Public Health / CDC Foundation

November 15<sup>th</sup>, 2023



Antimicrobial Use & Resistance Antimicrobial Stewardship (AS)

## Antimicrobial Stewardship in Illinois:

### What's New and How to Get Involved



Regulatory Update

NHSN AUR Module Requirement

IDPH AS Initiatives

IDPH AS Efforts Grantee Activities

USAAW

Be Antibiotics Aware Partner Toolkit IDPH USAAW Activities



## **ANTIMICROBIAL USE & RESISTANCE**



## 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:





Clostridiodes 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

CDC. Antibiotic Resistance Threats in the United States, 2019. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2019.

Between 2012 and 2017, deaths from antimicrobial resistance $\downarrow$ by $18\%$ overall	
and nearly 30% in hospitals. <sup>1</sup>	
ANTIBIOTIC RESISTANCE THREATS	2022 SPECIAL REPORT
IN THE UNITED STATES	U.S. IMPACT ON ANTIMICROBIAL RESISTANCE
	Resistant hospital-onset infections and deaths
	both $\uparrow$ at least $15\%$ during the first yea of the pandemic. <sup>2</sup>
	2020-2021

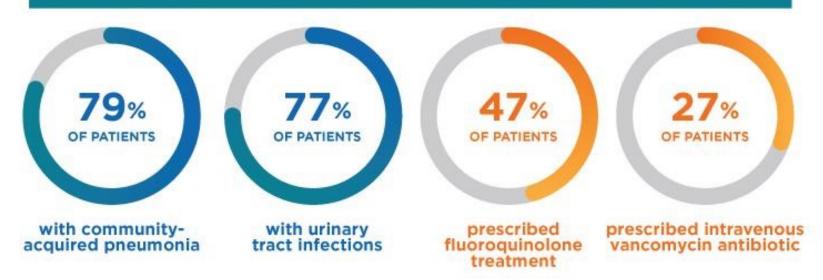
<sup>1</sup>CDC. Antibiotic Resistance Threats in the United States, 2019. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2019.
 <sup>2</sup>CDC. COVID-19: U.S. Impact on Antimicrobial Resistance, Special Report 2022. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2022.



## Hospital

More than 50% of antibiotic prescribing for selected events in hospitals was not consistent with recommended prescribing practices.

### ANTIBIOTIC PRESCRIBING WAS NOT SUPPORTED IN:





## Hospital

More than 50% of antibiotic prescribing for selected events in hospitals was not consistent with recommended prescribing practices.

## Outpatient

Approximately 60% of U.S. antibiotic expenditures are related to care received in outpatient settings.

Approximately 50% of outpatient antibiotic prescribing may be inappropriate.

### **Nursing Home**

Up to 70% of nursing home residents receive antibiotics during a year.

Up to 75% of antibiotics are prescribed incorrectly.

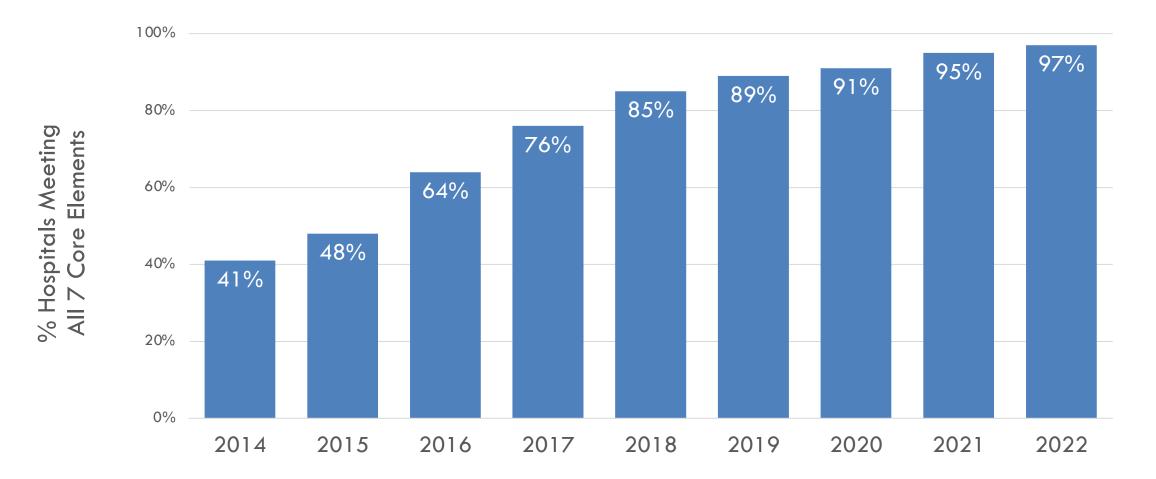


https://www.cdc.gov/antibiotic-use/core-elements/hospital.html https://www.cdc.gov/antibiotic-use/core-elements/outpatient.html https://www.cdc.gov/antibiotic-use/core-elements/nursing-homes.html

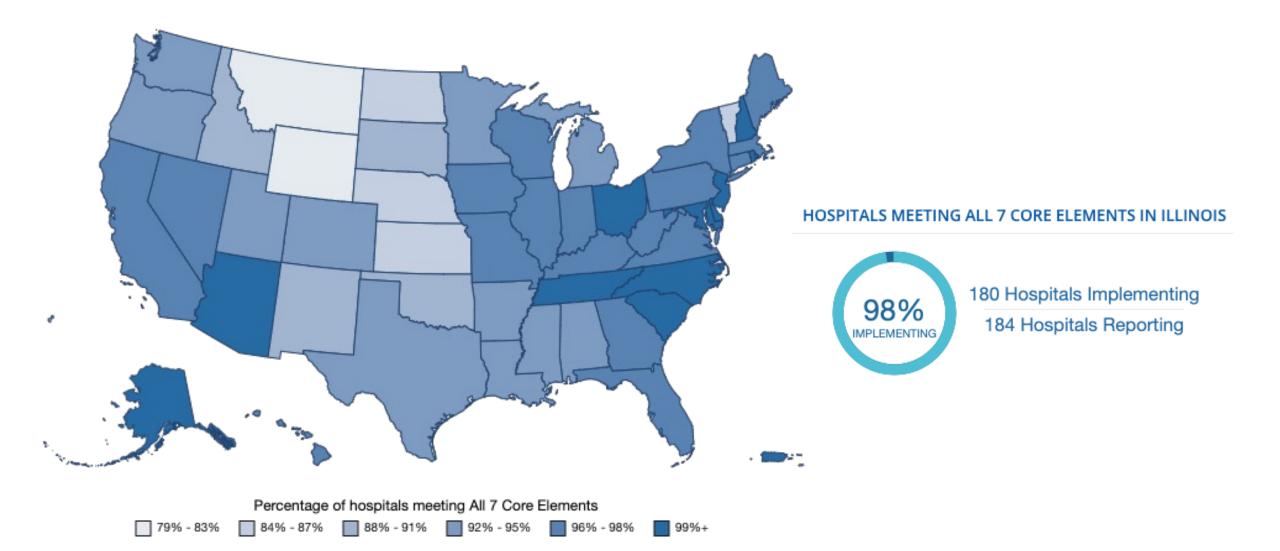
# **ANTIMICROBIAL STEWARDSHIP**



## Changes Over Time in Hospital Antibiotic Stewardship





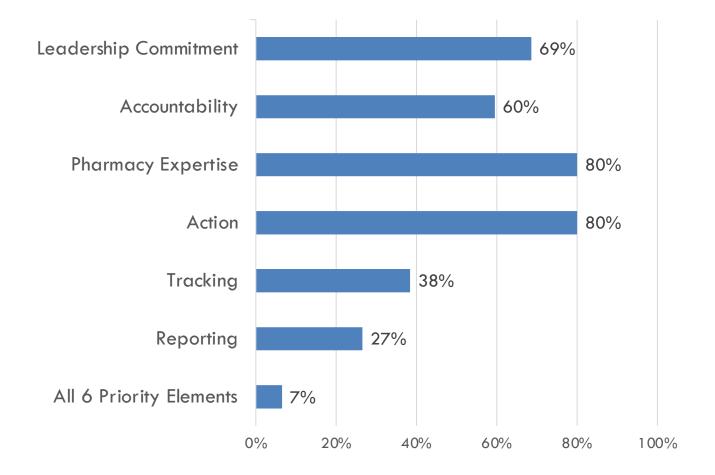




https://arpsp.cdc.gov/profile/stewardship

	Hospital Core Elements	Priorities for Hospital Core Element Implementation
Hospita	I Leadership Commitment	
	Dedicate necessary human, financial, and information technology resources.	Antibiotic stewardship physician and/or pharmacist leader(s) have antibiotic stewardship responsibilities in their contract, job description, or performance review.
Accoun	tability	
20	Appoint a leader or co-leaders, such as a physician and pharmacist, responsible for program management and outcomes.	Antibiotic stewardship program is co-led by a physician and pharmacist.*
Pharma	cy/Stewardship Expertise	
	Appoint a pharmacist, ideally as the co-leader of the stewardship program, to help lead implementation efforts to improve antibiotic use.	Antibiotic stewardship physician and/or pharmacist leader(s) have completed infectious diseases specialty training, a certificate program, or other training on antibiotic stewardship.
Action		
	Implement interventions, such as prospective audit and feedback or preauthorization, to improve antibiotic use.	Antibiotic stewardship program has facility-specific treatment recommendations for common clinical condition(s) and performs prospective audit/feedback or preauthorization.
Trackin	g	
<u>III</u>	Monitor antibiotic prescribing, impact of interventions, and other important outcomes, like C. <i>difficile</i> infections and resistance patterns.	Hospital submits antibiotic use data to the NHSN Antimicrobial Use Option.
Reporti	ng	
*	Regularly report information on antibiotic use and resistance to prescribers, pharmacists, nurses, and hospital leadership.	Antibiotic use reports are provided at least annually to target feedback to prescribers. In addition, the antibiotic stewardship program monitors adherence to facility- specific treatment recommendations for at least one common clinical condition.
Educati	on	
	Educate prescribers, pharmacists, nurses, and patients about adverse reactions from antibiotics, antibiotic resistance, and optimal prescribing.	No implementation priority identified.

Illinois Hospital Uptake of Priorities for Hospital Core Element Implementation





https://www.cdc.gov/antibiotic-use/core-elements/hospital/priorities.html https://arpsp.cdc.gov/profile/stewardship

# **REGULATORY UPDATE**



# 2024 NHSN AUR Module Requirement

- Beginning Calendar Year (CY) 2024: AUR Surveillance measure will be <u>required</u> to meet the Public Health and Clinical Data Exchange Objective of the CMS Promoting Interoperability (PI) Program
- Applies to hospitals and critical access hospitals enrolled in the CMS PI Program
- Requires submitting Antimicrobial Use (AU) and Antimicrobial Resistance (AR) data

- Facilities will be required to attest to one of the following:
  - Being in active engagement with NHSN to submit AUR data <u>OR</u>
  - Claim an applicable exclusion



# "Active Engagement"



- Two options for "active engagement" with NHSN
  - □ 1. Pre-production and validation
    - Registration within NHSN
    - Testing and validation of the CDA files
    - Beginning in CY 2024, facilities can only spend one calendar year in Option 1
  - **2**. Production submission
    - Submitting production AU & AR files to NHSN
      - For CY 2024: 180 continuous days of data submission of both AU and AR

For more information and additional resources, including operational guidance, a training video, and FAQs, please see the materials in the <u>Antimicrobial Use and Resistance section</u> of CMS Reporting Requirements for Acute Care Hospitals page.

Please direct questions about NHSN AUR Reporting to the NHSN Helpdesk: NHSN@cdc.gov



### Current state of facility engagement<sup>1</sup>

- 923/4,500<sup>2</sup> (21%) facilities can attest to being in active engagement with NHSN
- 503/4,500<sup>2</sup> (11%) facilities registered for the PI Program in the NHSN app but have not submitted test files nor data
  - 367/4,500<sup>2</sup> (8%) submitted enough data to qualify for the PI Program but have not registered in the NHSN app
- 2,707/4,500<sup>2</sup> (60%) facilities are not engaged with NHSN for the purposes of the PI Program

Percentage of active NHSN acute care facilities reporting at least one month of data to the AU Option in 2021 (left) and 2022 (right).

36%

30%

43%

34%

29%

ORITY ELEMENT EMENT

Implementing als Reporting



## **IDPH ANTIMICROBIAL STEWARDSHIP EFFORTS**

# Illinois Action Plan to Prevent HAI/AR Priority Area: Antimicrobial Stewardship

Improve antimicrobial prescribing practices across all health care settings Enhance antimicrobial stewardship implementation across health settings

Evaluate antimicrobial stewardship practices and monitor antimicrobial prescribing and use

Promote transparency and communication



Raise public awareness about appropriate antimicrobial use

Provide education to the public on antimicrobial resistance and appropriate antimicrobial use



IDPH Antimicrobial Stewardship Honor Roll Program

#### Goals

- Recognize facilities that prioritize and excel in implementing evidence-based practices of antimicrobial stewardship.
- Provide a platform for sharing best practices and fostering collaboration among healthcare facilities.
- Encourage facilities to adopt robust stewardship programs and conduct continuous improvement to address the critical issue of antimicrobial resistance.

### **Benefits**

- Recognition and Prestige
- Collaboration and Networking
- Improved Patient Outcomes
- Staff Engagement and Professional Development
- Ensure Regulatory Compliance and Accreditation



Criteria for Acute Care Hospitals		
Part I	Bronze Silver Gold	Priorities for Hospital Core Element Implementation
Part II	Gold	Antimicrobial Stewardship Collaboration Share best practices with others and engages in <b>ongoing, formal</b> collaboration outside of facility to advance antimicrobial stewardship.

Application Process		
Launch	Tentatively scheduled for early 2024	
Application	Applications will be accepted twice a year via REDCap	
Notice of Award	Applicants will be notified of their status via email within 3 months of the application deadline	
Renewal	Facilities enrolled into the Honor Roll will receive a designation expiring two years from the notification date	
Upgrade	Facilities are eligible to apply for an upgrade in their tier <b>one</b> year from the notification date of their last designation	

Leadership Commitment	Dedicate the necessary human, financial, and information technology resources.	AS physician and/or pharmacist leader(s) have AS responsibilities in their contract, job description, or performance review.
Accountability	Appoint a leader or co-leaders, such as a physician and pharmacist, responsible for ASP management and outcomes.	ASP is co-led by a physician and pharmacist.
Drug Expertise	Appoint a pharmacist, ideally as the co-leader of the ASP, to help lead implementation efforts to improve antibiotic use.	AS physician and/or pharmacist leader(s) have completed infectious diseases specialty training, a certificate program, or other training on AS.
- Action	Implement interventions, such as prospective audit and feedback or preauthorization, to improve antibiotic use.	ASP has facility-specific treatment recommendations for common clinical condition(s) and performs prospective audit and feedback or preauthorization for specific antibiotic agents.
Tracking	Monitor antibiotic prescribing, the impact of interventions, and other important outcomes, like Clostridioides difficile infections and resistance patterns.	Hospital submits antibiotic use data to the NHSN Antimicrobial Use (AU) Option.
Reporting	Regularly report information on antibiotic use and resistance to prescribers, pharmacists, nurses, and hospital leadership.	Prescriber, unit or service-level antibiotic use reports are provided at least annually to target feedback to prescribers.

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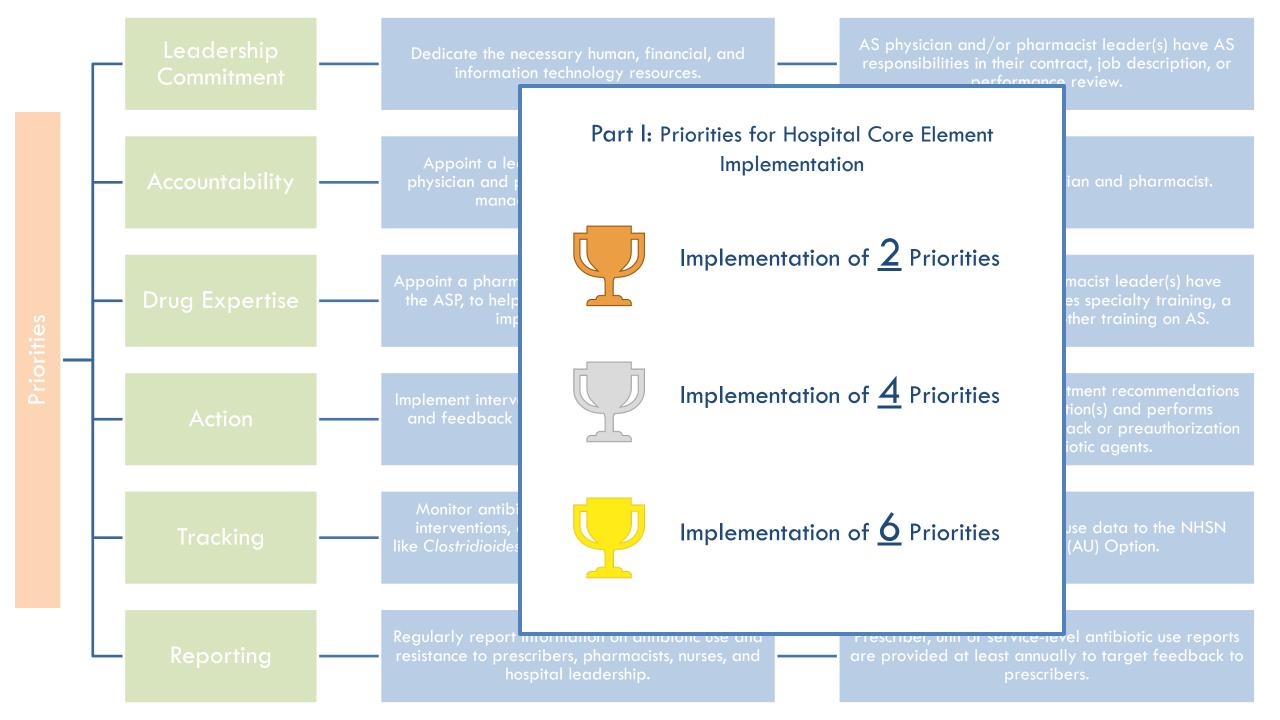
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# Part II: Antimicrobial Stewardship Collaboration



Share best practices with others and engages in <u>ongoing, formal</u> collaboration outside of facility to advance antimicrobial stewardship

Examples include:

- 1. Regional Collaborative: partnering with regional hospitals and long-term care facilities to share relevant data and integrate stewardship interventions and/or protocols.
- 2. Mentorship/Support: formal mentorship and/or ongoing support of lower-resource facilities, where antimicrobial stewardship expertise is shared in a structured, ongoing partnership.
- 3. Community Outreach: providing ongoing antimicrobial stewardship expertise/support to local urgent care centers, clinics, and/or physician offices.



# Part II: Antimicrobial Stewardship Collaboration



Share best practices with others and engages in <u>ongoing, formal</u> collaboration outside of facility to advance antimicrobial stewardship

Does **NOT** include:

- Partnering with a "sister" facility within health system to consolidate or coordinate ASP interventions.
- Providing a single webinar/education to a lower-resourced facility.
- Providing antimicrobial stewardship support within your hospital Emergency Department.
- Establishing or improving communication at transitions of care.





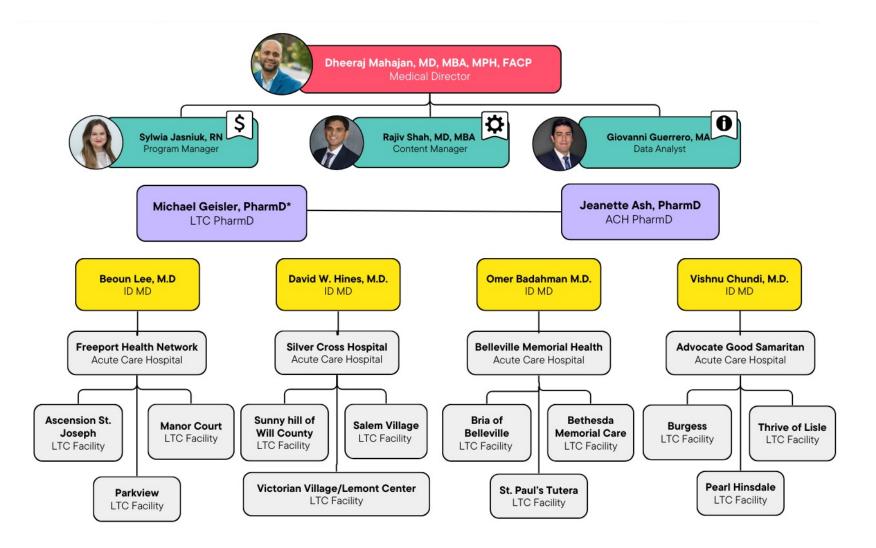
Partnering Acute and Long-Term Care to Advance Antimicrobial Stewardship Efforts

This program will partner all participating long term care facilities with a local hospital in a 1:1 collaboration for ongoing and personalized support.

Participants will:

- Learn from subject matter experts, receive technical assistance, and gain resources to enhance AS in long-term care settings.
- Become better equipped to meet mandatory regulations and quality standards related to AS.
- Have the opportunity to receive sponsorship to complete SIDP or MAD-ID AS Training Programs, to strengthen skills and knowledge around ASP implementation.

# **PALASE Collaborative**



#### https://asp.cimpar.com/courses/palase-collaborative

**Outpatient & Long-Term Care** 

## **IDPH GRANTEE ACTIVITIES**



### Hybrid Regional Workshops (in-person or live-virtual):

A complimentary hands-on seminar to help you implement or improve an Antimicrobial Stewardship Program (ASP) in your facility. Two different sessions of in-person or livevirtual workshop options are available at registration.

> Part One: August 9th, 2023 - Naperville September 13th, 2023 - Rockford October 11th, 2023 - Springfield November 8th, 2023 - Mount Vernon

Part Two: January 10th, 2024 - Naperville February 14th, 2024 - Rockford March 6th, 2024 - Springfield April 10th, 2024 - Mount Vernon

### Virtual education sessions:

A complimentary and convenient way to engage in learning and discussion of the CDC Core Elements and other AS concepts with subject matter experts. Join us for the following sessions for feedback focused topics.

> August 3rd, 2023 September 7th, 2023 October 5th, 2023 November 2nd, 2023 December 7th, 2023 January 4th, 2024



Providing a wide selection of Antimicrobial Stewardship (AS) educational opportunities across Illinois.

Long-Term Care focused education - Open to all Healthcare Professionals!



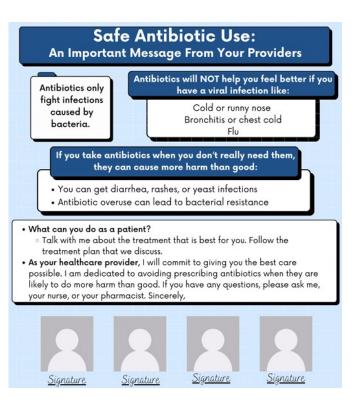


https://asp.cimpar.com/

# Precious Drugs and Scary Bugs

### ANTIBIOTIC STEWARDSHIP TOOLKIT

### FOR OUTPATIENT PROVIDERS





Commitment Demonstrate dedication to and accountability for opt 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, a



Tracking and reporting Monitor antibiotic prescribing practices and offer regu feedback to clinicians, or have clinicians assess their antibiotic prescribing practices themselves.

#### Education and expertise

nodify as needed.

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

### To Participate:

 Complete a baseline and follow-up survey to assess AS-related attitudes and behaviors



### **Receive:**

- Outpatient AS toolkit
- Access to AS webinars
- Public commitment poster
- \$25 gift card
- Chance to win sponsorship for the
   SIDP or MAD-ID AS certification



### Guidance Documents for Common Outpatient Infections





#### NM Northwestern Medicine See <u>adsp.nm.orq</u> for more information

**OUTPATIENT STEWARDSHIP TIP SHEET** 

**Urinary Tract Infection** 

<u>Do not send urine for test of cure</u> Changes in urine color, smell or turbidity do not qualify as symptoms of UTI				
Syndrome	Symptoms and signs			
Asymptomatic bacteriuria	Positive UA or urine culture with no acute localizing signs/symptoms of UTI			
Cystitis or UTI	New or worsening dysuria, urgency, hesitancy, frequency, suprapubic pain and/or gross hematuria			
Pyelonephritis	See UTI as above, plus fevers, chills, flank pain, CVA tenderness, nausea, vomiting			

	- If dysuria is present, inspect genitalia for discharge, vesicles or ulcerations AND consider STI testing
Diagnosis	- For acutely symptomatic patients, obtain urine dipstick OR laboratory urinalysis
	<ul> <li>for dipstick specimens, send urine culture if leukocyte esterase (LE) positive</li> </ul>
	• for laboratory UA, WBC count ≤10/hpf indicates low likelihood of true infection even if bacteria present
	- In patients with longstanding irritative symptoms (often postmenopausal women with ongoing dysuria, urinary
	frequency/hesitancy/urgency), test only if acute and/or worsening change in symptoms

#### Treatment Recommendations by Type of UTI and by Age

Type of UTI	Empiric Adult Treatment	Empiric Pediatric Treatment	
Cystitis without additional features	<ul> <li>Nitrofurantoin* 100 mg BID for 5 days</li> <li>Cephalexin 1000 mg BID for 5 days</li> <li>TMP-SMX DS* 160 mg-800 mg BID for 3 days</li> </ul>	<ul> <li>Cephalexin 25-50 mg/kg/day <u>divided BID to QID</u> for 3 to 5 days (maximum dose: 3000 mg/day)</li> <li>TMP-SMX* 6-12 mg/kg/day <u>divided BID</u> for 3 days (dose based on TMP component; maximum dose: 320 mg/day)</li> </ul>	
Cystitis with: obstruction OR urinary retention OR instrumentation	Base empiric selection on available data • Cephalexin 1000 mg BID for 7 days • TMP-SMX DS* 160 mg-800 mg BID for 7 days • Ciprofloxacin* 250 mg to 500 mg BID for 7 days	Cephalexin 50-100 mg/kg/day divided BID to QID for 7 days (maximum dose: 3000 mg/day)     TMP-SMX*6-12 mg/kg/day divided BID for 5 days (dose based on TMP component; maximum dose: 320 mg/day)	
Men with fever and UTI symptoms (prostatitis or pyelonephritis)	TMP-SMX DS* 160 mg-800 mg BID for 14 days     Ciprofloxacin* 500 mg BID for 14 days     Do not use nitrofurantoin     For males with pyelonephritis and no suspicion of     prostatitis     Cephalexin 1000 mg TID for 14 days		
Women and children with pyelonephritis	TMP-SMX DS* 160 mg-800 mg BID for 10 to 14 days     Cephalexin 1000 mg TID for 14 days     Ciprofloxacin* 500 mg BID for 7 days     Do not use nitrofurantoin	Cephalexin* 50-100 mg/kg/day <u>divided TID to QID</u> for <b>14 day</b> (maximum dose: 3000 mg/day)     TMP-SMX* 8-12 mg/kg/day <u>divided BID</u> for <b>7 to 10 days</b> (dose based on TMP component; maximum dose: 320 mg/day)     Do not use nitrofurantoin	
*For pregnant patients,	review ciprofloxacin, nitrofurantoin, & trimethoprim/s	sulfamethoxazole (TMP-SMX) appropriateness before prescribing	
Adjunctive Measures	Increased oral hydration Heat packs, acetaminophen or NSAIDs for pain relief Pyridium for pain relief if age >6 years AND CrCl >50 ml/min (decrease for mild renal impairment)		

Key Points for Counseling Patients

1. Just cloudy and/or smelly urine is not a symptom of UTI and does not require antibiotic therapy

2. You will be contacted in 1 to 3 days if antibiotics aren't necessary or if a different antibiotic is required

3. Repeat urine culture is not necessary if symptoms resolve after antibiotic treatment

4. Contact your provider if symptoms worsen or do not resolve after treatment



Updated 4 14 2023

November 18-24, 2023

# **U.S. ANTIBIOTIC AWARENESS WEEK**





### Each year in the U.S., at least 2.8 million people become infected with an antimicrobialresistant infection and more than 35,000 people die.

Learn more at cdc.gov/antibiotic-use.







U.S. Antibiotic Awareness Week is an annual observance that raises awareness of the threat of **antimicrobial resistance** and the importance of **appropriate antibiotic use**.



https://www.cdc.gov/antibiotic-use/week/toolkit.html

# CDC USAAW Activities

- Download and share the <u>Be Antibiotics Aware Partner Toolkit</u>
  - Key messages, sample social media posts, graphics, etc.
  - Educational materials, for patients/families and healthcare professionals
  - Antibiotic Stewardship Resource Bundles
- Go Purple for Antimicrobial Resistance
  - Wear purple and share pictures on your social media, tagging #PurpleForAR
- Spark conversation on Facebook, X (formerly Twitter), Instagram, and LinkedIn
  - Use the official hashtags: #AntimicrobialResistance, #USAAW23, or #BeAntibioticsAware
  - Join the Global X (formally Twitter) Storm on Thursday, November 16<sup>th</sup>, 9 a.m. CST



# Governor's Office & IDPH Leadership

### Gubernatorial Proclamation

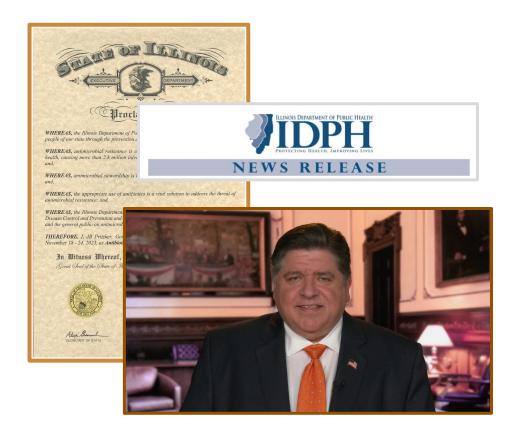
- Target audience: General Public
- Message: Declare week of November 18-24, 2023 as Antibiotic Awareness Week in Illinois

### • Message from Governor J.B. Pritzker

- Target audience: General Public
- Message: Highlight Importance of appropriate antibiotic use and threat of antimicrobial resistance

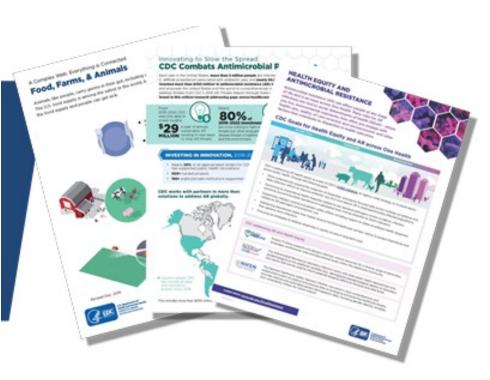
### • Press Release

- Target audience: General Public, Healthcare professionals
- Message: Highlight Importance of appropriate antibiotic use and threat of antimicrobial resistance, discuss key strategies for general public and healthcare professionals, and review CDC/IDPH activities





# IDPH Social Media Messaging



- IDPH Social Media Platforms
  - <u>Twitter</u>, <u>Facebook</u>, <u>Instagram</u>, <u>LinkedIn</u>
- Content Types
  - Key Messages
  - Educational Resources
  - Infographics
- Hashtags
  - #AntimicrobialResistance, #USAAW23, and #BeAntibioticsAware



# ANTIBIOTIC Stewardship Webinar

### Tuesday, November 21st



Registration Required:

https://zoom.us/webinar/register/WN\_azsPlkMqSwm mRZcCT4uOmQ

**Ouestions:** 

Antibiotic.Stewardship@Hektoen.org

Time: 2:00 PM CST

**Speaker:** Meredith Fils, MS, PA-C, Rosalind Franklin University of Medicine and Science

**Target Audience:** Outpatient professionals including Physicians, Physician Assistants, Advanced Practice Nurses, Registered Nurses, and Pharmacists

# Webinars & Podcasts

- Wednesday, November 15<sup>th</sup> @ 2PM CST (Webinar)
  - American Society of Health-System Pharmacists
  - Register: <u>Antibiotic Stewardship 2023: CDC Updates and Case</u>
     <u>Examples using National Healthcare Safety Network Antimicrobial</u>
     <u>Use Option</u>
  - Open to ASHP members
- Monday, November 20<sup>th</sup> (Podcast)
  - American Society of Health-System of Pharmacists
  - Core Elements of Antibiotic Stewardship for Health Departments
  - Free to listen: Hot Topics in Pharmacy Practice
- Tuesday, November 21<sup>st</sup> @ 2PM CST (Webinar)
  - IDPH / The Hektoen Institute
  - Free to Register: <u>Best Practices for Outpatient Antimicrobial</u> <u>Stewardship</u>



# Spotlight on Antimicrobial Stewardship



**NorthShore** 

University HealthSystem

Recognize the antimicrobial stewardship programs and efforts of Illinois healthcare facilities, local health departments, and organizations throughout USAAW!



Northwestern Medicine<sup>®</sup>



#### SAVE THE DATE

#### ILLINOIS SUMMIT ON ANTIMICROBIAL STEWARDSHIP

#### Wednesday, July 17, 2024 8:30 a.m. – 5 p.m.

**Chicago Metropolitan Area** Registration information to follow.

#### **Target Audience**

Health care professionals, including physicians, pharmacists, dentists, nurses, quality directors, infection preventionists, facility leadership, and public health professionals across inpatient, outpatient, and long-term care settings.

#### Purpose

- Summarize the regulatory and national landscape for antimicrobial stewardship.
- Apply national guidelines and best practices for implementing and evaluating facility antimicrobial stewardship programs.
- Review past successful antimicrobial stewardship programs and lessons learned.
- Identify tools and resources for implementing antimicrobial stewardship programs.

#### Questions?

Contact the event organizers at <u>Antibiotic.Stewardship@Hektoen.org</u>

#### Provided by:



Funding for this conference was made possible by IDPH and the Centers for Disease Control and Prevention. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the U.S. Department of Health and Human Services, nor does the mention of trade names, commercial practices or organizations imply endorsement by the U.S. government.

# 2024 Illinois Summit on Antimicrobial Stewardship



# IDPH Antimicrobial Stewardship Webpage



#### **Dedicated Sections**

Acute Care Long-Term Care Outpatient Dental General Public



### **IDPH AS Efforts**

AS Honor Roll Grantee Work Collaboratives Annual Summit USAAW

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### Listserv Sign-Up

Channel for IDPH to communicate and distribute important AS news, updates, and resources





# Antimicrobial Stewardship in Illinois: What's New and How to Get Involved



U.S. ANTIBIOTIC AWARENESS WEEK November 18-24, 2023 www.cdc.gov/antibiotic-use

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