

KHC Office Hours for Compass HQIC

November 24, 2021

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Agenda

- + Welcome and Announcements
- + **Antibiotic Stewardship –
Practical Implementation for Kansas Facilities**
- + Compass HQIC: Data and Program Updates
- + Resources, Upcoming events and Next Steps



This is
**U.S. Antibiotics
Awareness Week**
November 18-24

#BeAntibioticsAware
#UseAntibioticsWisely

November 24, 2021

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Presenters



Michele Clark
KHC Senior Director of Quality
Initiatives & Special Projects



Eric Cook-Wiens
Data & Measurement Director



Heidi Courson
Quality Improvement Advisor



Erin McGuire
Quality Improvement Advisor

Special guests: KDHE HAI/AR Program



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Antibiotic Stewardship: Practical Implementation for Kansas Facilities



Kellie Wark, MD MPH
University of Kansas Medical Center, Infectious Diseases &
Kansas Department of Health & Environment, HAI/AR Program

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Objectives

1. Review the state of antimicrobial stewardship programs in KS
2. Evidence in support of antimicrobial stewardship
3. Review the core elements of inpatient stewardship
4. Identify and strategize how to overcome stewardship challenges

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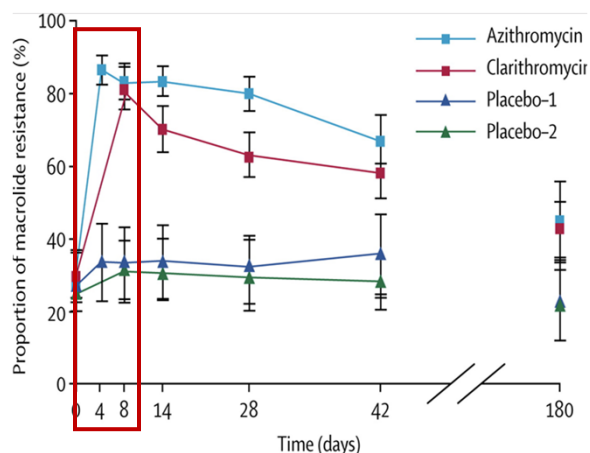
Why Focus on Antibiotics?

Antibiotic use contributes to:

- Antibiotic resistance (AR) : **use it AND lose it?**
 - In as quickly as 4 days, 3x increase resistance pneumococcus in throat swabs while on macrolide vs. control
 - AR = increased costs (MDROs compared to susceptible **prolong hospitalizations 24%, costs 29%**)
- Adverse events (e.g., #1 cause ED visits from meds)
- Collateral damage (e.g., *C.diff*)

Pennsylvania HealthCare Cost Containment Council. Jan 2010
<http://www.phc4.org/reports/hai/10/docs/hai2010report.pdf>
Maudlin et al. Antimicrobial Agents and Chemotherapy. 2010; 54(109-15).

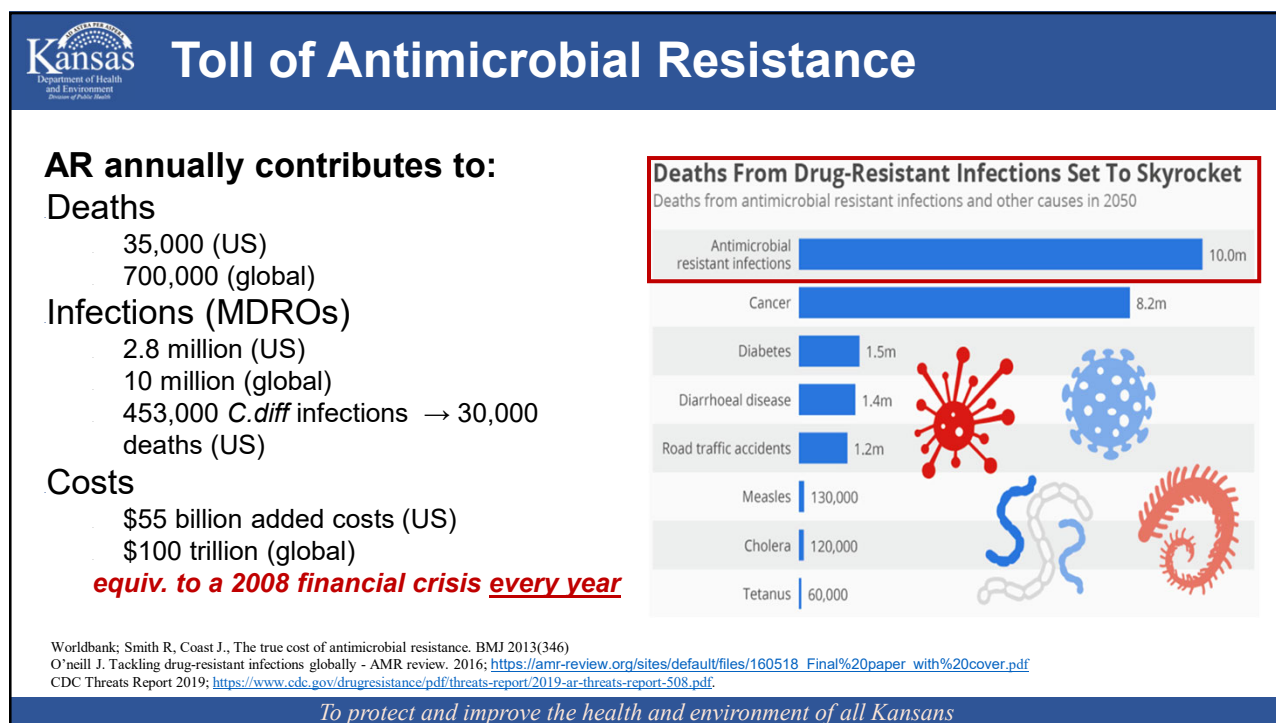
Changes in macrolide-resistant pneumococcus while on macrolides compared to placebo (no abx)



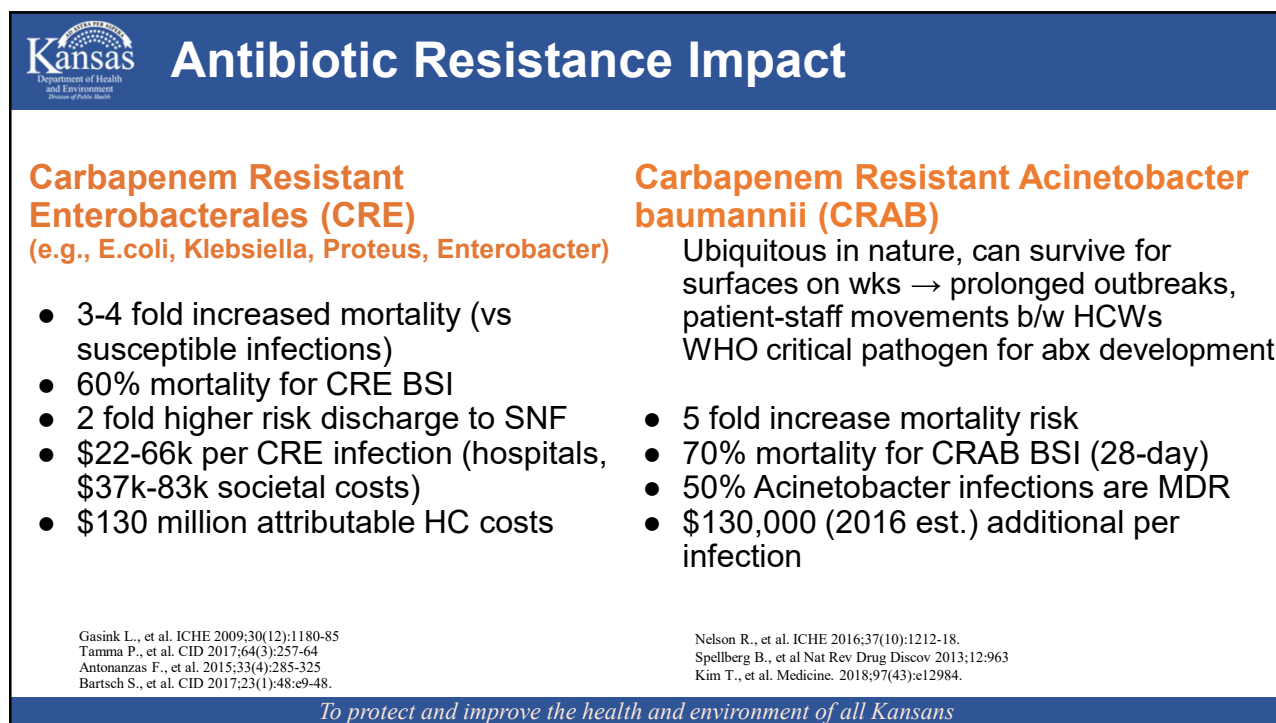
Roberts et al. Clinical Infectious Diseases. 2009;49:1175-84.
Malhotra-Kumar S, et al Lancet 2007;369(9560):482-90.

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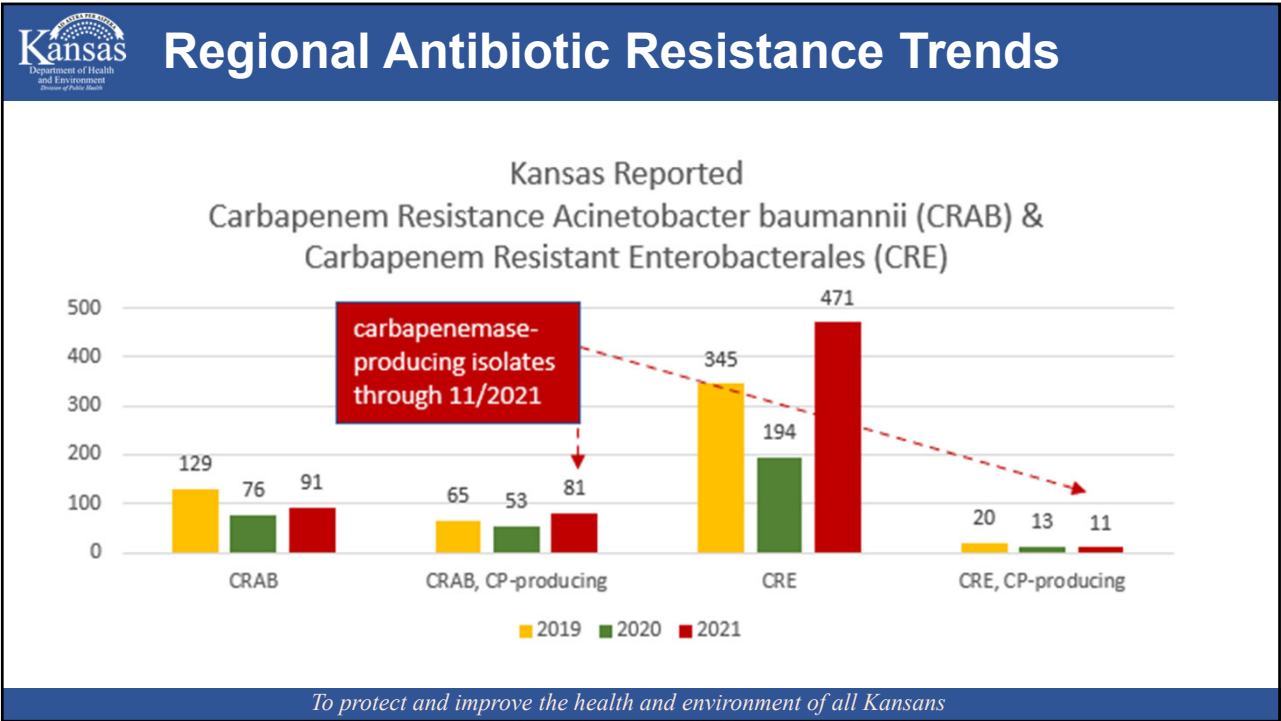
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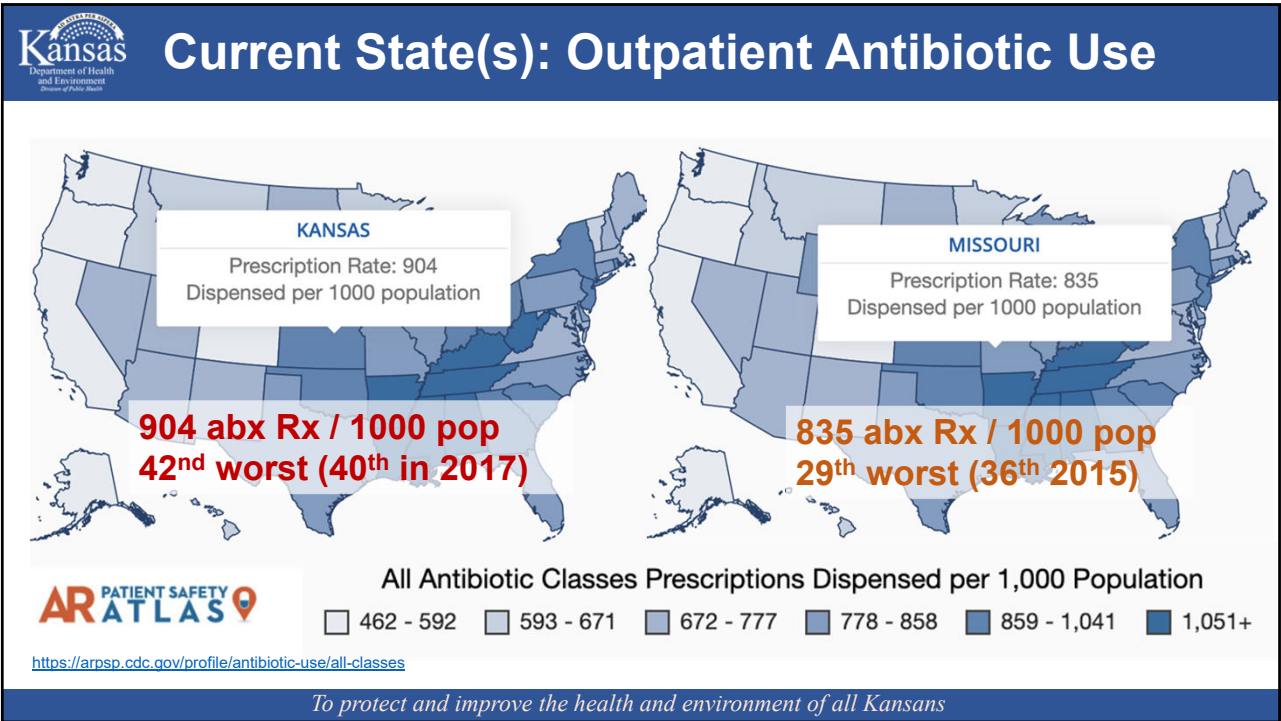
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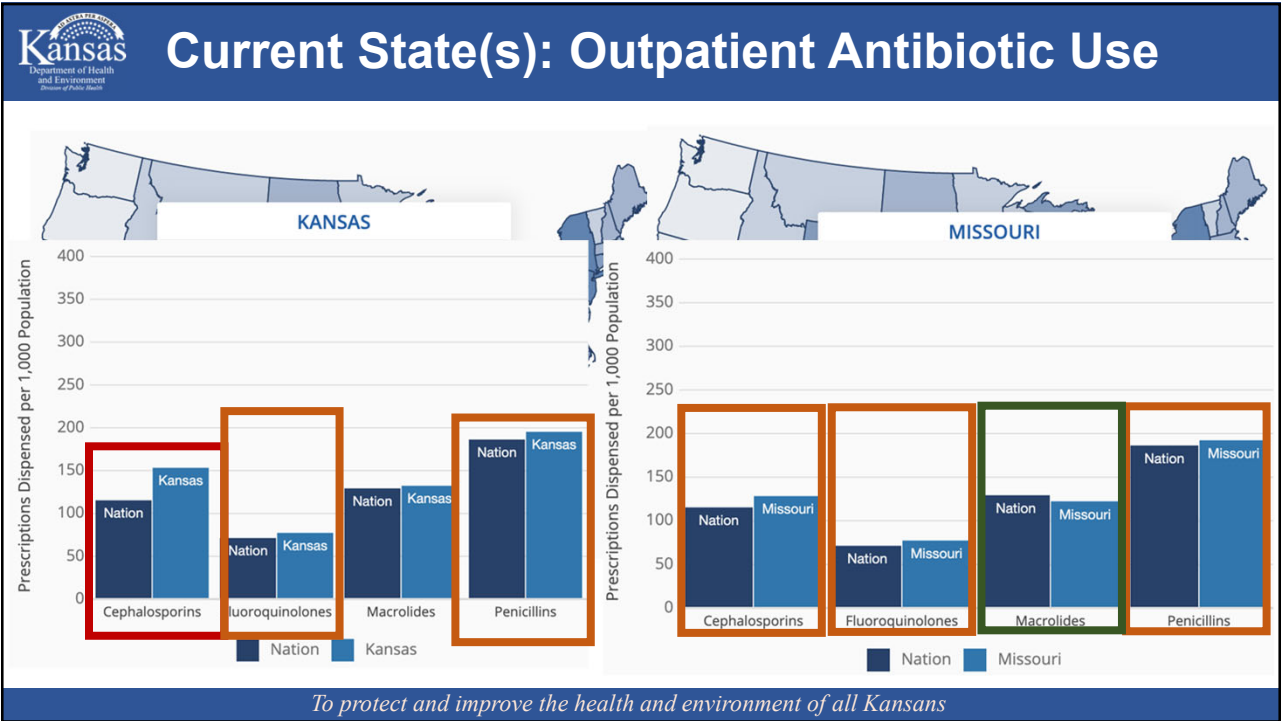
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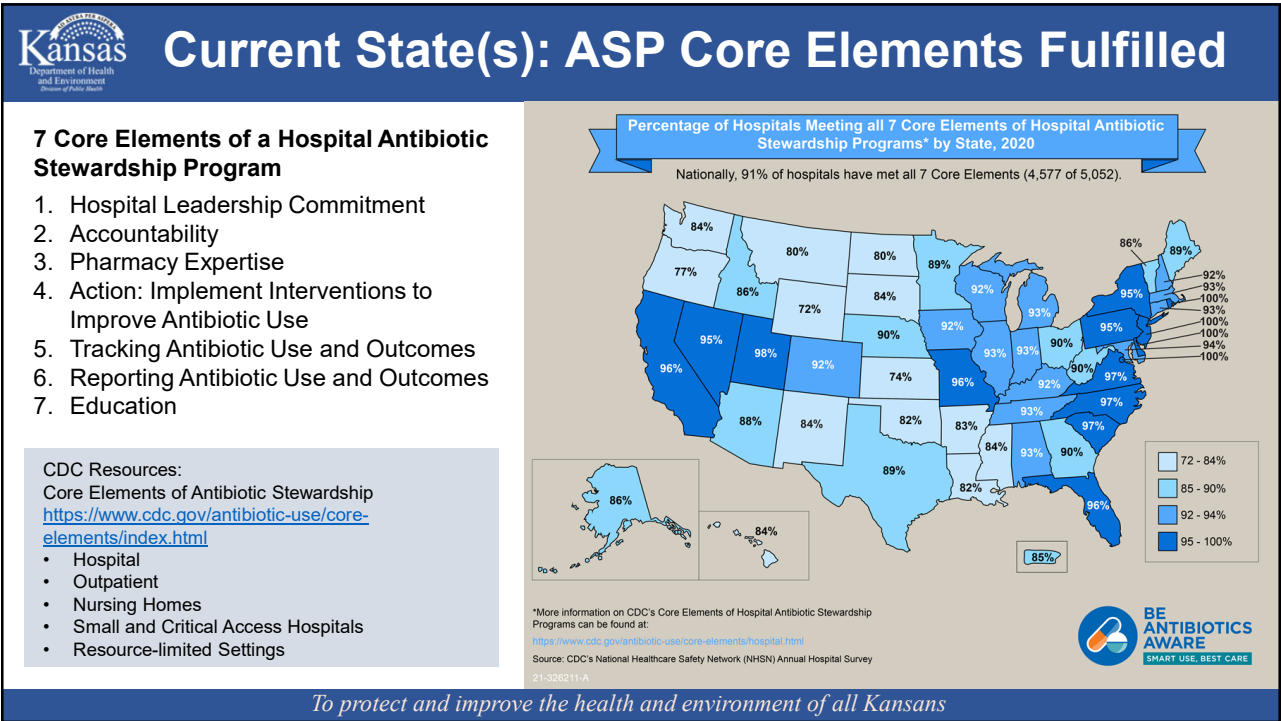
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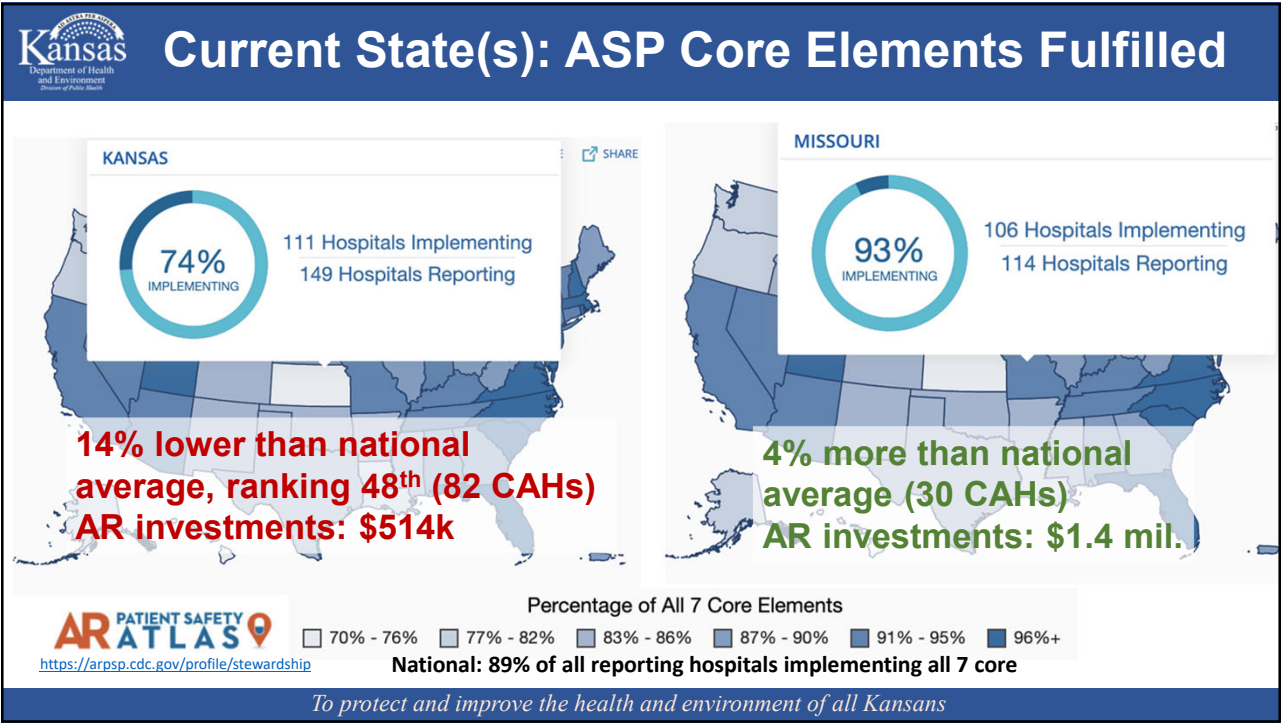
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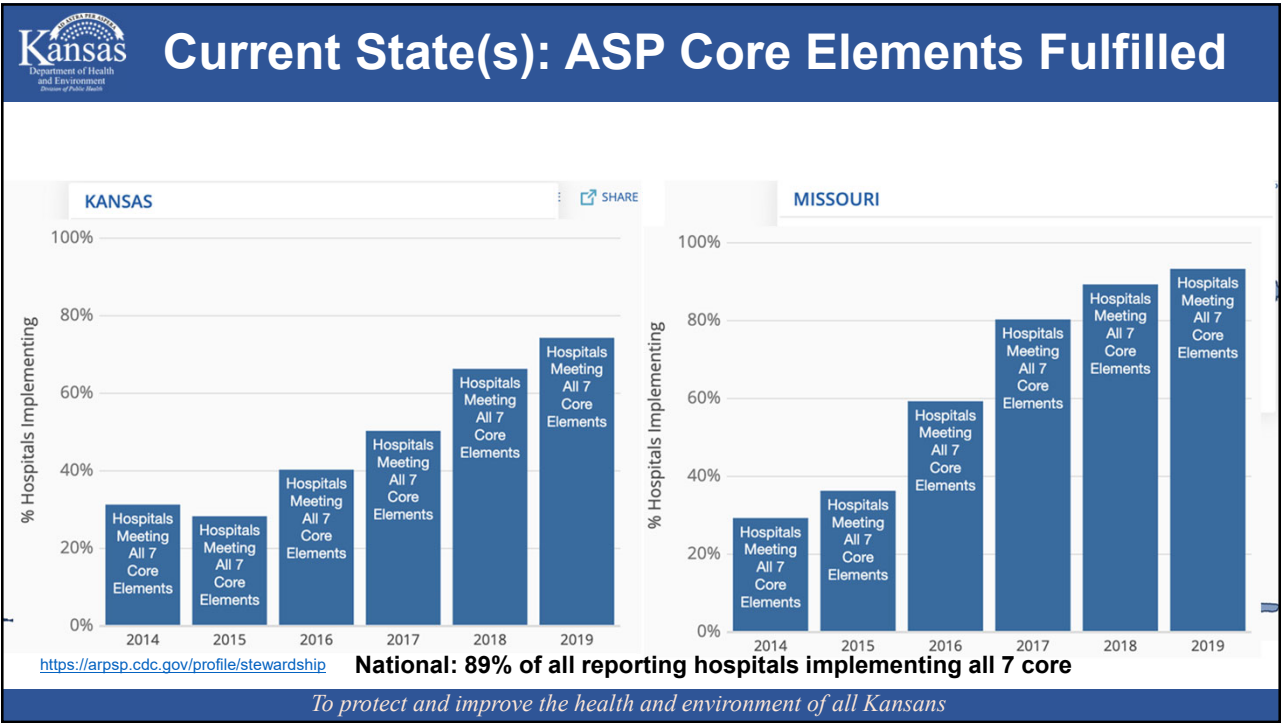
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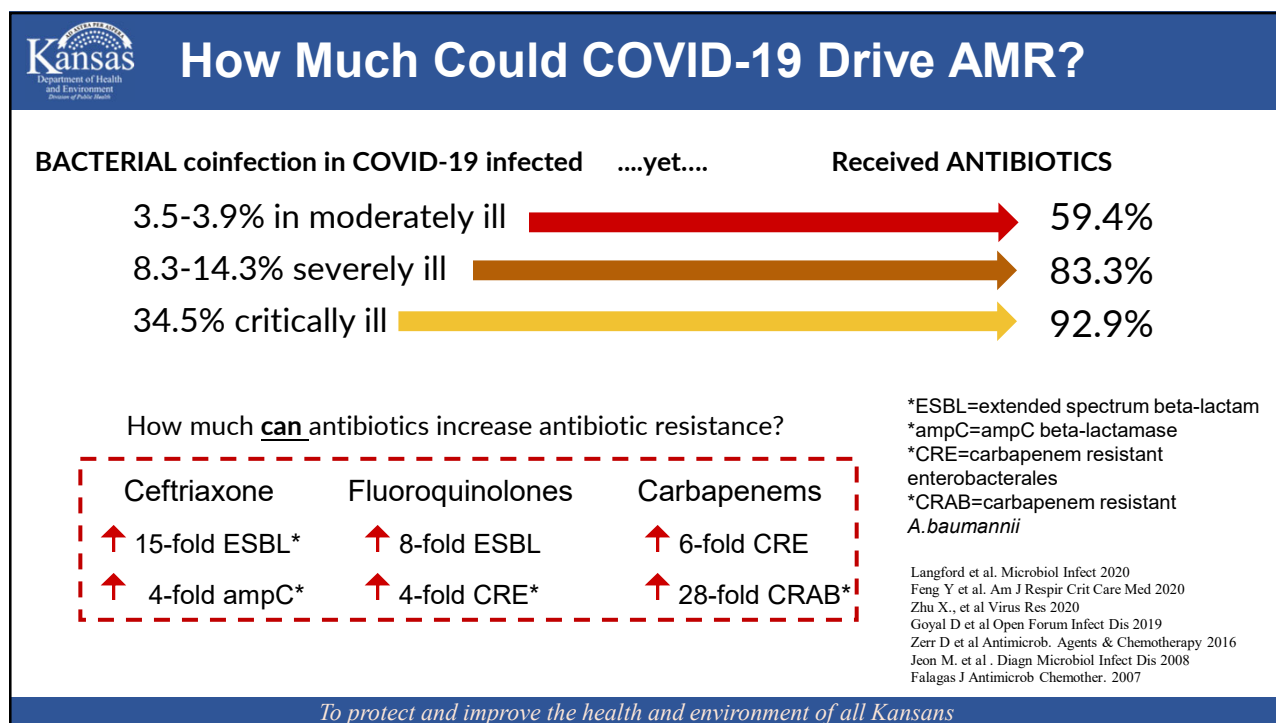
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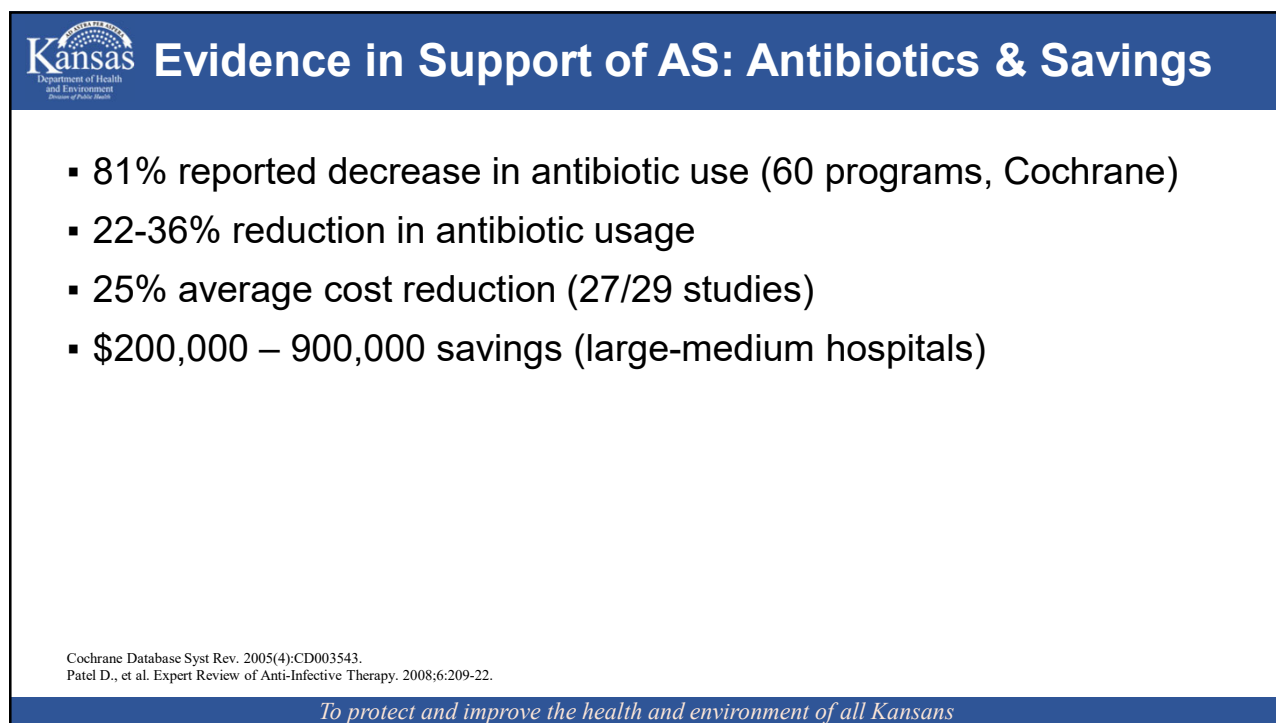
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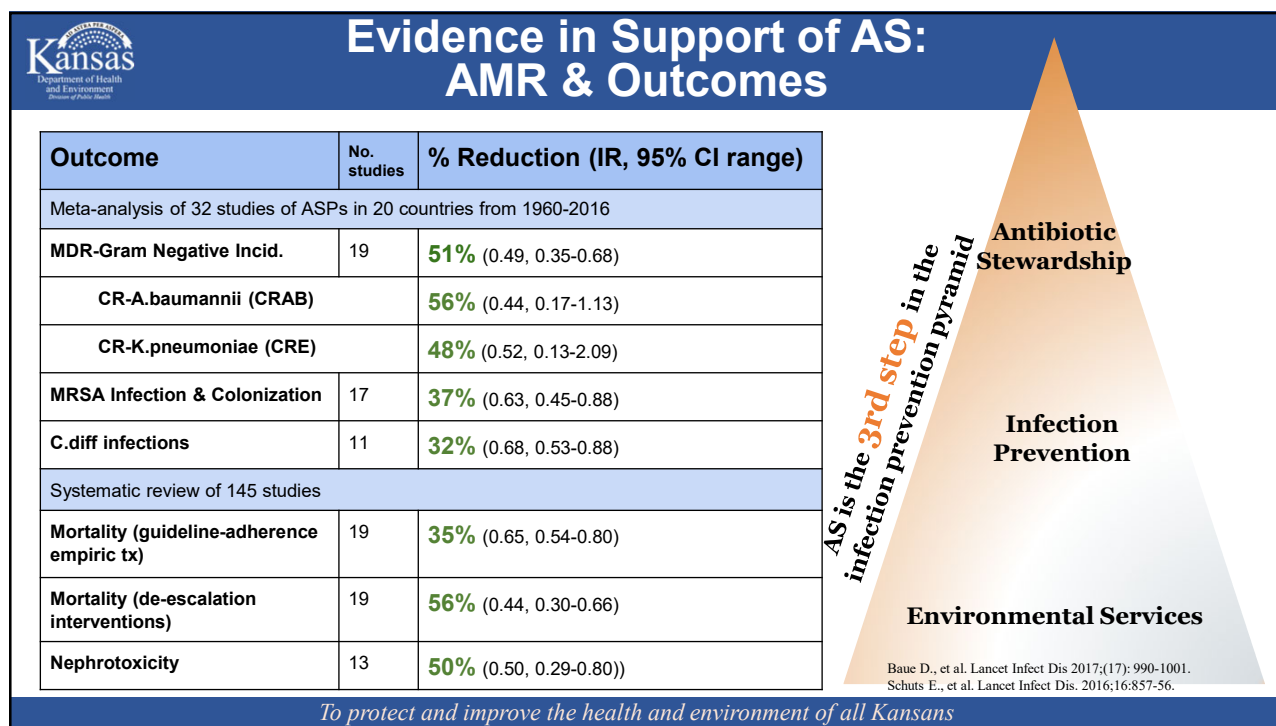
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ASP Goals

Targets:

- Improve abx prescribing
- Measure prescribing
- Minimize mis-dx or delayed diagnostics contributing to abx overuse
- Ensure the right drug, right dose & right duration are selected when an abx is needed


Goals:

- More prudent abx use → less resistance
- Reduce adverse events
- Reduce morbidity
- Reduce mortality

Barlam T., et al. CID 2016; 15(62)(10): e51-77. 51
 MacDougall C et al. Clin Micro Rev 2005; 18(4): 638-56
 Dellit T., et al. CCID 2007; 44:159-177

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Core Element 1-2: Commitment & Accountability

Leadership support

Dedicate necessary human, financial, & IT resources

Owners, governing boards, admin., medical, pharmacy & nursing directors


Barlam T et al CID 2016; 15(62):e51-77.
Kansas Department of Health and Environment. 2018 Hosp AS workshop survey. 2018, unpublished.

Single greatest predictor of whether or not KS facilities have an established ASP

- Barriers
 - Financial/resources
 - Lack of awareness
- Goal of AS leader to emphasize value (costs + outcomes) & once est. important to remind leadership of AS values, gains

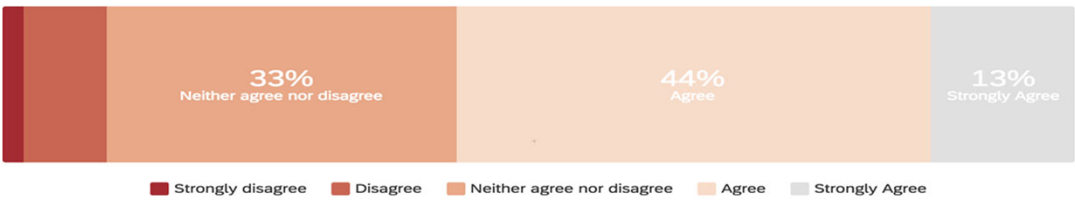
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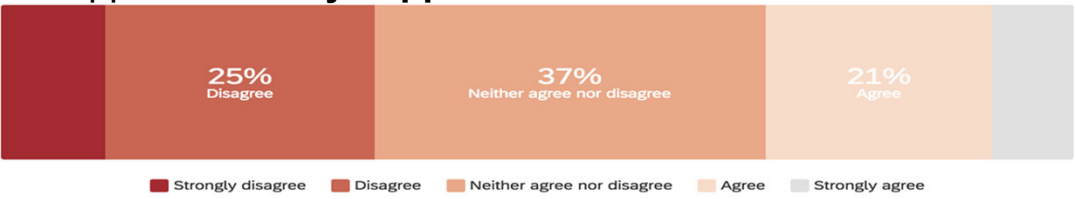
Challenges

- Kansas facilities perceptions of leadership commitment**



Response	Percentage
Strongly disagree	0%
Disagree	0%
Neither agree nor disagree	33%
Agree	44%
Strongly Agree	13%

- Support for salary support dedicated to AS activities**




Response	Percentage
Strongly disagree	0%
Disagree	25%
Neither agree nor disagree	37%
Agree	21%
Strongly agree	0%

KDHE CAH ASP survey, 2018. Unpublished

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Core Elements 1-2: Accountability & Commitment

- ✓ **Appoint the leader & co-leaders**
 - Physician, APRN, PA, PharmDs
 - Practice managers, nurse managers
- ✓ **Respected, esteemed**
 - ID or abx knowledge
 - If/when co-led, ensure clearly delineated roles
 - Responsible for program management & outcomes

- ✓ **Informal leaders**
 - Influence peers' attitudes & behaviors
 - Can make or break your program




Informal Leadership

Barlam T et al CID 2016; 15(62):e51-77.
Flodgren G, Cochrane Database Syst Rev 2019;24:6.
Grol R et al Lancet 2003;362(9391):1225-30

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Examples of ASP Accountability

- Oversight by governing body
- **Leadership training**
- **Med director sets standards for prescribing**
- Nursing director ensures nursing staff engaged, aware of ASP activities & goals

- Pharmacist reviews & audits
- Micro provides surveillance data (i.e., antibiogram)
- Hospital or clinical quality measures as AS goals

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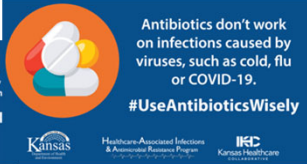
Examples of Commitment

Priority examples

- Leader given **time** to manage program & conduct interventions
- Resource** allocation (staff, IT, marketing, education)
- Formal statements** of commitment (e.g., include in annual reports)
- Appoint hospital or clinic executive to be **AS “champion”**, ensure med director participates

Other examples

- Set clear **expectations** for **leadership & staffing** (include in contracts, job descriptions upon hire) & **responsibilities & outcomes**
- Create a culture** around optimal abx use (messages, newsletters, emails, ongoing communique)
- Allocation of **educational time & resources** to clinicians, staff, patients





Download

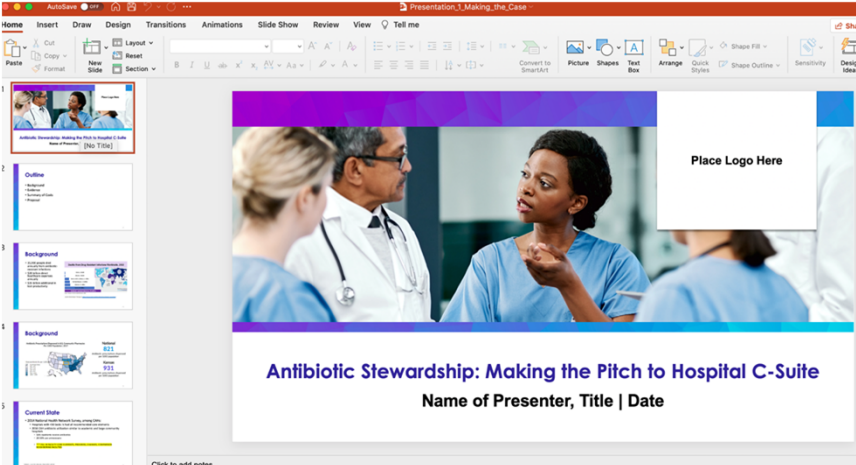
Social Media Toolkit:
<https://www.khconline.org/files/USAAW-2020-images.zip>

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Tools: Presentation for Leadership




- State/local background, CMS regulations etc.
- Editable to your facility
- Costing estimators for ASP proposals
- Cost saving projections
- Goals / benefits to facility, individual, society

Download

https://www.kdheks.gov/epi/hai/CAH_Toolkit/Presentation_1_Making_the_Case.pptx

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Tools: Nudging

Commitment posters


- Accountability when faced with pressure during the visit
- 20% reduction in inappropriate abx (RCT of 5 clinics)



Meeker D et al JAMA. 2014;174(3):425-31.
Kufel W, Open Forum Infect Dis 2018;5(suppl1):S527.


English customizable poster: <http://www.khconline.org/files/POSTER-UseAntibioticsWisely11x17.pdf>
Spanish poster: https://www.khconline.org/files/POSTER-UseAntibioticsWisely24x36_SPANISH.pdf

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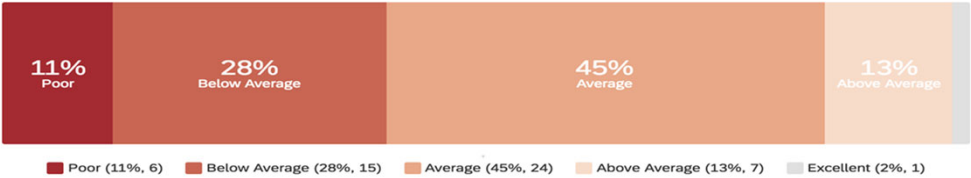
Challenges

- Kansas facilities perceptions of **establishing** an ASP



Perception	Percentage	Count
Very Challenging	17%	9
Challenging	45%	24
Neither easy/challenging	25%	13
Easy	13%	7
Very Easy	0%	0

- Perceptions of **implementation**

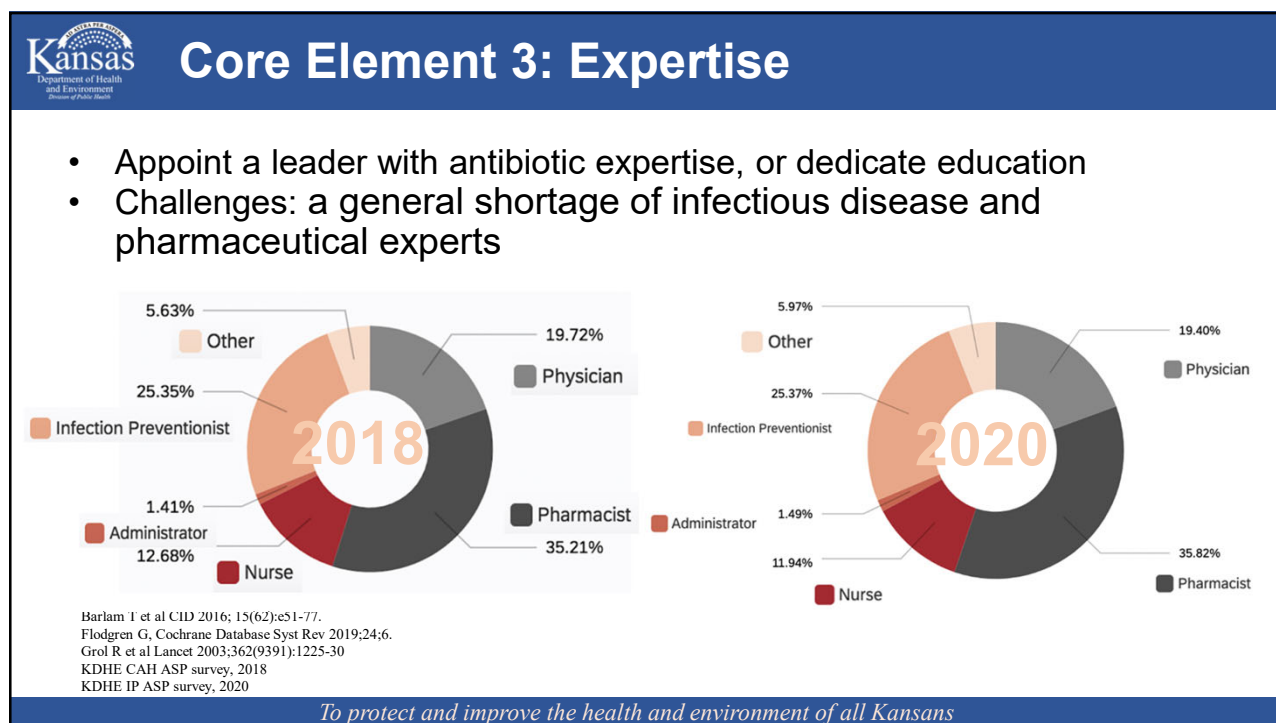


Perception	Percentage	Count
Poor	11%	6
Below Average	28%	15
Average	45%	24
Above Average	13%	7
Excellent	2%	1

KDHE CAH ASP survey, 2018. Unpublished

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Kansas
Department of Health
and Environment
Division of Public Health

Examples: Expertise

MAD-ID (Making a Difference in Infectious Disease Stewardship)

- 19 ACPE accredited CE available, online, teleconferencing, practical components included
- For more information, visit: <https://mad-id.org/antimicrobial-stewardship-programs/>

SIDP (Society of Infectious Diseases Pharmacists)

- Certificate program for pharmacists, 3 phases including skills component; 40-43 ACPE hours
- KDHE-KHC scholarship
 - In 2019, 29 Kansas pharmacists completed the SIDP Antibiotic Stewardship certification program.
 - In 2021, an additional 31 Kansas pharmacists are now pursuing SIDP Antibiotic Stewardship certification through KDHE-KHC tuition reimbursement program. Most recent awards were made in Spring 2021.
- For more information, visit: <https://sidp.org/Stewardship-Certificate>


CDC's Antibiotic Stewardship Training Series (for clinicians, free)

- Nine interactive, web-based modules can be taken in any order. Each module is <1 hour. CE is available.
- For more information, visit: https://www.train.org/cdctrain/training_plan/3697

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Tools:
Facility AU, Patient audits, Current State

Hospital Antibiotic Use			Infection		# cases		Antibiotic regimen most often prescribed		
Last calendar year or last 12 months (alternatively, start with one month)			Antibiotic 1		Antibiotic 2		Antibiotic 3		
What are the 3 most common infections, or conditions, (i.e., asymptomatic bacteriuria, acute COPD exacerbation) for which patients are treated with antibiotics	1. _____ 2. _____ 3. _____		Ex) UTI (catheter)	Ex) 150mg (avg)	Drug: ceftriaxone Dose: 1 gram Route: IV Duration: 4 days	Drug: piperacillin/tazobactam Dose: 4.5 g (14 Rx were 3.375 g) Route: IV (1/3 Rx IV) Duration: 5 days (average)	Drug: levofloxacin Dose: 500 mg (2/3 Rx were 750) Route: IV (1/3 Rx PO) Duration: 7 days (average, including IV-to-PO conversion)		
What proportion of asymptomatic bacteriuria cases are treated with an antibiotic	%								
What are the 3 most common antibiotics prescribed for UTIs (including asymptomatic bacteriuria)	1. _____ 2. _____								
What proportion of acute bronchitis with an antibiotic									
What proportion of acute bronchitis treated with an antibiotic									
What are the 3 most common antibiotic regimens (regardless of whether they are community acquired pneumonia)	ex) A, 1/1/20	ex) Cipro 250 mg p.o. BID x 14 days	ex) UTI	ex) Urine catheter in place, cloudy urine	ex) UA packed WBC, UC<10k contaminants	ex) UTI	ex) No	ex) No	
What are the 3 most common antibiotic regimens (regardless of whether they are community acquired pneumonia)	ex) B, 1/2/20	ex) cefazolin	ex) cellulitis	ex) erythema, fevers	ex) n/a	ex) SSTI	ex) Yes	ex) Yes	
What are the 3 most common antibiotic regimens (regardless of whether they are community acquired pneumonia)									
What are the 3 most common antibiotic regimens (regardless of whether they are community acquired pneumonia)									
What are the 3 most common antibiotic regimens (regardless of whether they are community acquired pneumonia)									
Other infections a concern in your facility									
Other infections a concern in your facility									



Hospital Abx Use: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Table_6_Hospital_Antibiotic_Use_historic.docx


Most Commonly Used Abx: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Table_7_Most_Commonly_Used_Antibiotics.docx

Summary of Facility Abx: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Table_11_Summary_of_Facility_Antibiotics.docx

Abx by patient: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Table_10_Antibiotic_Tracking_By_Patient.docx


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Tools:
Facility Profile, Infection Profile

Last 12 months or last calendar year	Number	Last 12 months or last calendar year	Number
Licensed beds		<i>Clostridioides difficile</i>	
Admissions		Facility onset infections	
Patient days		Community onset infections	
Average daily census		Numbers of non-duplicate isolates of following isolates:	
Number of prescribers		MDR Gram-Negative Bacteria	
Clinical pharmacists (hours per month)		Carbapenem-resistant <i>Enterobacteriales</i> (<i>E. coli</i> , <i>Klebsiella</i> spp., <i>Morganella</i> , <i>Proteus</i> spp., <i>Providencia</i> spp.)	
Patient characteristics	Average daily census	Carbapenem-resistant <i>Pseudomonas aeruginosa</i>	
		Carbapenem-resistant <i>Acinetobacter baumannii</i>	
Residents with indwelling urinary catheters		ESBL <i>Enterobacteriales</i>	
Residents with pressure injury		MDR Gram-Positive Bacteria	
		Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA)	
		MRSA	
Patients admitted with acute on chronic foot or leg ulcers		Vancomycin-Resistant <i>Enterococci</i> (VRE)	
		VRE	
		Other drug-resistant gram-positives	
		Penicillin-Resistant <i>Streptococcus pneumoniae</i> (non-meningeal MIC)	
		Erythromycin-resistant group A <i>Streptococcus</i>	
		Clindamycin-resistant group B <i>Streptococcus</i>	
		Other MDRGs of concern:	




Facility profile: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Table_12_Facility_Profile.docx

Infection Profile: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Table_13_Facility_Infection_Profile.docx

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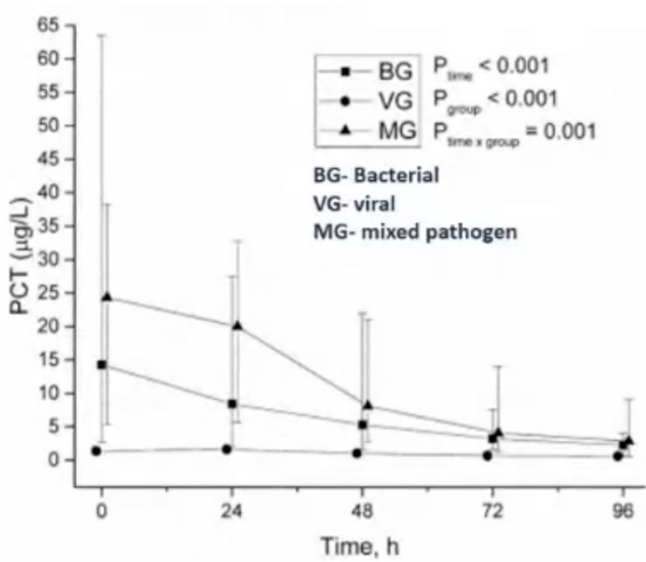
Diagnostic Stewardship: Procalcitonin (PCT)

Pneumonia, URI/LRTI, sepsis

- Viral = lower PCT
- Bacterial = elevated PCT & higher severity of disease
- 19-38% reduction in abx use w/ PCT algorithm
- 1.5-2.5 avg. lower abx days
- 2 meta-analysis (pna & sepsis) assoc w/ decreased mortality

** Abx should NOT be based solely on PCT, but in general PCT can serve as part of clinical context*

Rodriguez A., et al. J Infect 2016; 72:143-52.
Guan W., et al. NEJM 2020; 27(1): 157-75.
Agarwal R. et al CID 2011;53:379-87
Heyland D. et al. Crit Care Med. 2011;39:1792-9.
Schuetz P., et al Lancet Infect Dis 2018;18:95-107.
Newton J., et al Open Forum Infect Dis; 2019;6:ofz355.
Kyriazopoulou E. et al. Am J Resp Crit Care Med 2021(203): 202-10.



PCT (µg/L) vs Time (h)

Legend: BG- Bacterial, VG- viral, MG- mixed pathogen

Statistical significance: $P_{time} < 0.001$, $P_{group} < 0.001$, $P_{time \times group} = 0.001$

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LRTI Initial Antibiotic Use Algorithm

PCT Value	$<0.1 \mu\text{g/L}$	$0.1 - 0.24 \mu\text{g/L}$	$\geq 0.25-0.5 \mu\text{g/L}$	$>0.5 \mu\text{g/L}$
Antibiotic Use Recommendation	Strongly Discouraged	Discouraged	Encouraged	Strongly Encouraged


- Consider alternative diagnosis
- Repeat PCT in 6-12 hours if antibiotics not begun and no clinical improvement
- If clinically unstable, immunosuppressed or high risk consider overruling (PSI Class IV-V, CURB>2, GOLD III or IV)

Repeat every 2-3 days to consider early antibiotic cessation
See Algorithm 2

<https://www.unmc.edu/intmed/divisions/id/asp/procalcitonin-pct-guidance/index.html>

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Diagnostic Stewardship: PCT

Incorporating AS into COVID-19 activities

COVID-19 to distinguish bacterial co-infections

- PCT elev. in 6% COVID-19 admits
- PCT sig. more elevated w/ **bacterial co-infection (13.1 vs. 2.0, p=0.009, n=2443)**
- High NPV if <0.5 ng/mL
- **27% reduction abx** incorporating PCT algorithm (p<0.001, n=2006)

TABLE 2 Mean procalcitonin levels in community-associated bacterial infections and sensitivity and specificity of initial procalcitonin values of 0.25 and 0.50 ng/ml for identifying community-associated bacterial infections


Infection type	Procalcitonin level (ng/ml)				Procalcitonin cutoff (ng/ml) of:							
	Mean	SD	n	P value ^a	0.25				0.50			
					Sensitivity	Specificity	PPV	NPV	Sensitivity	Specificity	PPV	NPV
All community-associated infections	13.16	51.19	148	0.0091	0.601	0.532	0.076	0.954	0.426	0.715	0.088	0.951
Bacteriuria	5.15	22.98	88	0.1428	0.568	0.527	0.043	0.970	0.363	0.710	0.045	0.967
Bacteremia	34.25	85.01	47	0.0125	0.681	0.528	0.027	0.988	0.553	0.712	0.036	0.988
Bacterial pneumonia	16.42	57.81	24	0.2345	0.708	0.526	0.015	0.995	0.500	0.709	0.017	0.993
No infection	2.00	15.26	2,295									

^aCompared to noninfected patients' initial procalcitonin using 2-sided t test.

Chen N., et al. Lancet 2020;395:507-13.
May M., et al. AAC 2021;65:e02167-20
Heesom L., et al. J Antimicrob Resistance 2002;22:782-84.
Zheng Z., et al. J Infect 2020; 81(2): e16-25.
Tan et al, ID Week 2021

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Clinical Decision Support

Alerts

coupled w/ other testing & clinical decision supports (esp. **actionable alerts**)

Checklists

added to daily pharmacists rounds or 48-72h for abx timeouts

Antimicrobial Stewardship Alert: Your patient has a positive viral PCR + negative procalcitonin + one or more antibiotics ordered. These results suggest viral infection-please reassess necessity of antibiotics as indicated.

Antibacterial Medications			
Start		Ordered	Stop
05/01/18 0830	vancomycin (VANCOCIN) 1,000 mg in sodium chloride 0.9 % (NS) 250 mL	05/01/18 0809	--
	IVPB 1,000 mg, Intravenous, 260 mL/hr, Every 8 hours		

Results

	05/01/18 0810	05/01/18
Adenovirus		
Coronavirus		
Human Metapneumovirus (HMPV)		
Human Rhinovirus Enterovirus		
Influenza A		
Influenza B		
Parainfluenza Virus		
Respiratory Syncytial Virus		
Procalcitonin	0.22	

Detected

Acknowledge Reason

Checklist

Daily Items

Inappropriate Abx: PCT <0.25 & Active Abx

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Antibiotic rec(s):

☐ Initiate therapy
 ☐ Narrow therapy
 ☐ Broaden therapy
 ☐ Discontinue all
 ☐ Consult ID

☐ Resolve drug-bug mismatch
 ☐ Adjust end time

Antibiotic Evaluation:

☐ No change
 ☐ For prophylaxis
 ☐ For extended treatment

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Tools: Policies for PCN allergies

[Facility] Antibiotic Stewardship Program – Penicillin Allergy Protocol

[Facility Logo]

SUBJECT: Penicillin allergy testing protocol

DATE: [effective date]

APPROVED BY: [Approving individual or committee]

Background
Up to 10% of patients report a penicillin allergy, however less than 1% have a true allergy (1, 2). Beyond avoiding more costly and newly approved antibiotics, beta-lactam avoidance in those with penicillin allergies has a significant impact on clinical outcomes. Those with penicillin allergies have been found to have higher treatment failure rates for certain infections, and are greater C.diff risk, as well as colonization with MRSA and VRE (2,3). Even for people with true IgE-mediated hypersensitivity allergies, reactions to third and fourth generation cephalosporins are less than 1% and only 1.6% to first generation cephalosporins in two recent systematic reviews and meta-analyses of penicillin beta-lactam allergies (4). A caveat is cephalosporins which still appears to have higher rates of penicillin-cross reactivity (12.9-14%) because it is chemically most similar to penicillin (4).

Policy
This policy outlines penicillin allergy testing indications and appropriateness, and specific criteria for the substitution and therapeutic interchange of medications as set forth by the **Pharmacy and Therapeutics Committee**, and the **Antibiotic Stewardship (AS) Team**.

Procedures
A. Definitions
a. **Infusion reaction:** Any reaction that occurs when a medication is administered over 15 minutes or greater via an intravenous or intramuscular route. When an infusion reaction is selected it does not preclude the patient from receiving the agent again after a risk-benefit analysis.
b. **Intolerance:** Difficulty taking a medication because of an adverse effect that is a non-immune-mediated hypersensitivity, or an adverse reaction that occurs because of the agent's mechanism of action (e.g., opioids resulting in constipation and subsequent nausea, vomiting). When intolerance is selected, it does not preclude the patient from receiving the agent again (5).
c. **Contraindication:** Any reason that exposure to a medication is not advisable (e.g. thrombocytopenia with heparin products). When contraindication is selected, it does not preclude the patient from receiving the agent after the contraindication period.
d. **Allergy:** An immune-mediated hypersensitivity response to an agent ranging from mild to severe and life-threatening adverse reaction. Records of a medium to high severity reaction indicates that the patient should not be exposed to the agent again without a risk-benefit analysis (5).
e. **Reaction type:** A selection between infusion reaction, intolerance, contraindication, or food allergy/sensitivity.
f. **Reactions:** A condition or manifestation resulting from an administration of a medication, food, allergen, or other agent (e.g. anaphylaxis, rashes, edema, etc.).

IV to PO Policy:
https://www.kdheks.gov/epi/hai/CAH_Toolkit/Template_4_ASP_IV_to_PO_Protocol.docx

PCN allergy Policy:
https://www.kdheks.gov/epi/hai/CAH_Toolkit/Template_5_ASP_PCN_Allergy_Protocol.docx

Download

PCN allergies reported in up to 10% but <1% have true allergy

PCN can improve treatment outcome & narrow the antibiotic options, non-PCN may have greater risk C.diff infection, MRSA, VRE colonization

GI upset, nausea, diarrhea

- Not an allergy
- Re-trial penicillin

Itching or rash

- Non-IgE mediated, cross-reaction unlikely
- Use alternative penicillin, or any cephalosporin

Hives or Anaphylaxis

- Ig-E mediated, cross-reaction possible
- Avoid all beta-lactams

Macy et al. CID 2017
Macy J. et al. Allergy 2014
Marchand-Austin 2014
Wybo 2014

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Tools: Antibioqram and Kansas Antibioqram (by regions)

2020 Kansas Antibioqram

Cumulative antimicrobial susceptibility report for community

Percent Susceptible 2020 Isolates

Antibiotic Class	Number of Isolates	Percent Susceptible
Amphotericin B	100	100
Vancomycin	100	100
Linezolid	100	100
Teicoplanin	100	100
Chloramphenicol	100	100
Trimethoprim-sulfamethoxazole	100	100
Clindamycin	100	100
Clotrimazole	100	100
Fluconazole	100	100
Isavuconazole	100	100
Posaconazole	100	100
Other antifungals	100	100

Gram Positive

Gram Negative

Yeast

Percent Susceptible 2018-2019 Isolates


Download

Antibioqram Template: https://www.kdheks.gov/epi/hai/CAH_Toolkit/Spreadsheet_1_Antibioqram_Template.xlsx

Kansas Antibioqram (2020): https://www.kdheks.gov/epi/download/Entire_a_gram.pdf

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Clinical Decision Support
Viral Script Pads

Rx Patient Name: _____

Rx Name: _____

DIAGNOSIS

☐ Bronchitis (chest cold, cough): 7-14 days

☐ Flu: 7-14 days

☐ Otitis media (middle ear infection): 7-10 days

☐ Upper respiratory infection (common cold): 7-14 days

☐ Viral pharyngitis (sore throat): 3-10 days

☐ Viral sinusitis (sinus infection): 7-14 days

The symptoms you presented with today suggest a VIRAL infection.

You have not been prescribed antibiotics because antibiotics are **not** effective in treating viral infections, cause side effects, and may cause serious harm.

DIAGNOSIS

☐ Bronchitis (chest cold, cough): 7-21 days

☐ COVID-19: 3-21 days (+)

☐ Influenza (flu): 7-14 days

☐ Otitis media (ear infection): 7-10 days

☐ Upper respiratory infection (common cold): 7-10 days

☐ Viral pharyngitis (sore throat): 3-10 days

☐ Viral sinusitis (sinus infection): 7-14 days

The symptoms you presented with today suggest a VIRAL infection.

You have not been prescribed antibiotics because antibiotics are **not** effective for viral infections, cause side effects, and may cause serious harm.

Please return or call if symptoms do not improve in ____ day(s), you develop persistent fevers, shortness of breath, or other symptoms: _____

SYMPTOM RELIEF MEDICATIONS

Always use medications according to package instructions
Stop the medication when symptoms get better

☐ Acetaminophen, 325-650 mg every 4-6 hours as needed: fever and aches

☐ Ibuprofen, 400-800 mg every 4-6 hours as needed: fever and aches

☐ Naproxen, 250-500 mg every 12 hours as needed: fever and aches

☐ Lozenges - benzocaine, dyclonine or zinc acetate: sore throat

☐ Saltwater gargle - 1 tbsp. salt / 1 cup warm water: sore throat

☐ Honey - 2 tbsp. / 1 cup tea or hot water every 4-6 hours as needed (do not give honey to babies under 1 year): sore throat, cough

☐ Nasal / sinus saline irrigation (i.e., neti pot, saline squeeze bottle) 1-4 times daily as needed (do not use irrigations in kids under 6): nasal congestion

☐ Cool mist humidifier or vaporizer: chest & nasal congestion

☐ Dextromethorphan, 20-30 mg every 6 hours as needed (do not use cough suppressants in kids under 4): cough

If none of above working, you do NOT have heart problems or high blood pressure, may consider:

☐ Phenylephrine or pseudoephedrine, limit 2-3 days (do not use in kids under 4): cough & congestion


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Kansas Healthcare-Associated Infections & Antimicrobial Resistance Advisory Group

Prescriber: _____ Date: _____

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Clinical Decision Support
GU Symptomatic & Dental Prophylaxis Scripts

Rx Name: _____

Rx Dental Prophylaxis Decision Script

Patient Name: _____ Date: _____

DIAGNOSIS

☐ Asymptomatic bacteriuria (bacteria in urine without infection)

☐ Dysuria (painful urination without infection)

☐ Dyspareunia (painful sex)

☐ Interstitial cystitis (bladder wall inflammation)

☐ Pelvic floor dysfunction (pelvic muscle pain)

☐ Vaginitis (vaginal irritation)

The symptoms and/or urinalysis you presented with today DO NOT suggest an infection.

Antibiotics were not started because they are ineffective for dysuria without infection and asymptomatic bacteriuria, may cause side effects, harm & may lead to resistant bacteria limiting future antibiotic options.

Please return or call if symptoms do not improve in ____ day(s), develop fevers or chills, lower abdominal or back pain, blood in the urine, or other new or concerning symptoms.

SYMPTOM RELIEF MEDICATIONS

☐ Acetaminophen 325-650 mg every 4-6 hours as needed

☐ Phenazopyridine 100-200 mg (orange urine discoloration)

☐ Methenamine Hippurate 2 tablets three times daily

☐ Estrogen topically, 2 to 5 times daily

☐ Methenamine Hippurate 1000 mg to activate; don't smell expected)

☐ Cranberry supplement or D-mannose 2 gram daily

☐ Probiotic, lactobacillus at 100 billion CFU daily

Prophylaxis INDICATED¹

☐ Prosthetic heart valve

☐ Prosthetic material used to repair valve (e.g., annuloplasty)

☐ History of infective endocarditis

☐ Unrepaired congenital heart defect

☐ Repaired congenital heart defect with residual shunt or regurgitation

☐ Heart transplant with valvular regurgitation

Prophylaxis NOT generally indicated²

☐ History of prosthetic joint infection

☐ Extensive & invasive procedure planned

☐ Active or recovered prosthetic joint issues (hematoma, drainage)

☐ Immunosuppressed (e.g., history of transplant, leukemia, RA, Crohn's)

☐ Diabetic with poor control

☐ Risk of ORN³ (from bisphosphonates)

DIET / HYGIENE

☐ Avoid caffeine, alcohol, artificial sweeteners, spicy foods

☐ Consider diet for interstitial cystitis (icbhelp.org)

☐ Avoid irritants (spermicide, diaphragms, feminine hygiene sprays, powders, douches)

☐ Urinate after sex, wear cotton undergarments

☐ Avoid constipation and diarrhea

☐ Empty bladder at regular intervals

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Kansas Healthcare-Associated Infections & Antimicrobial Resistance Advisory Group

Prescriber: _____ Date: _____

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Core Element 5-6: Tracking & Reporting

Goal: determine whether interventions impacted abx, reduced resistance

- Peer comparison (e.g. compare 1 high priority condition such as rate of abx for acute bronchitis)
- Monitor adverse events (*C.diff* rates)
- Pharmacist audits abx use
- Micro provides surveillance data (e.g., antibiogram, local resistant rates)
- Outcome monitoring (antibiotic resistance, mortality, morbidity)

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Tools: Interactive HAI Spreadsheets

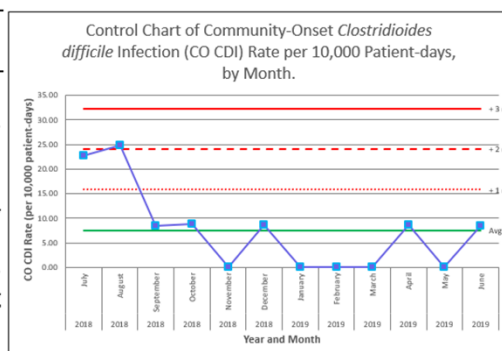
Community-Onset *Clostridioides difficile* Infection (CO CDI) Control Chart

Instructions

- For current standardized surveillance definitions for this measure, see the CDC's NHSN protocol: [NHSN and CDI Module Protocol](#)
- **Option 1 (preferred):** For facility-wide surveillance, collect the count of infections (numerators) and the count of patient days (denominators) for the whole facility's inpatient population, by month, for a one year period.
- **Option 2:** For inpatient unit surveillance, collect the count of infections (numerators) and the count of admissions (denominators) for the unit, by month, for a one year period. In the chart title, add the name of the unit (e.g., "Patient-days in Add. Unit Name, by Month.")
- **Option 3:** For outpatient unit surveillance, specifically emergency departments or 24-hour observation units, collect the count of infections (numerators) and the count of admissions (denominators) for the unit, by month, for a one year period. In the chart title, change the name of the denominator "Patient-days" to "Admissions", and add the name of the unit (e.g., "per 10,000 Admissions in Add. Unit Name, by Month."). Change the y-axis label to reflect the denominator is "per 10,000 admissions", rather than "per 10,000 patient-days."
- Select the month you want to begin with:
- Enter year of the month you want to begin with:
- Enter the count of infections and patient days, or admissions, to the corresponding month. Only edit the purple cells.

Year	Month	Infections	Admission	Rate
2018	July	3	1318	22.76
2018	August	3	1212	24.75

Download



- Average
- - - One sigma limit
- - - Two sigma limit
- - - Three sigma limit
- A single point outside the three sigma limit
- Two of three points outside the two sigma limit
- Four of five points outside the one sigma limit
- Eight points in a row on the same side of the average

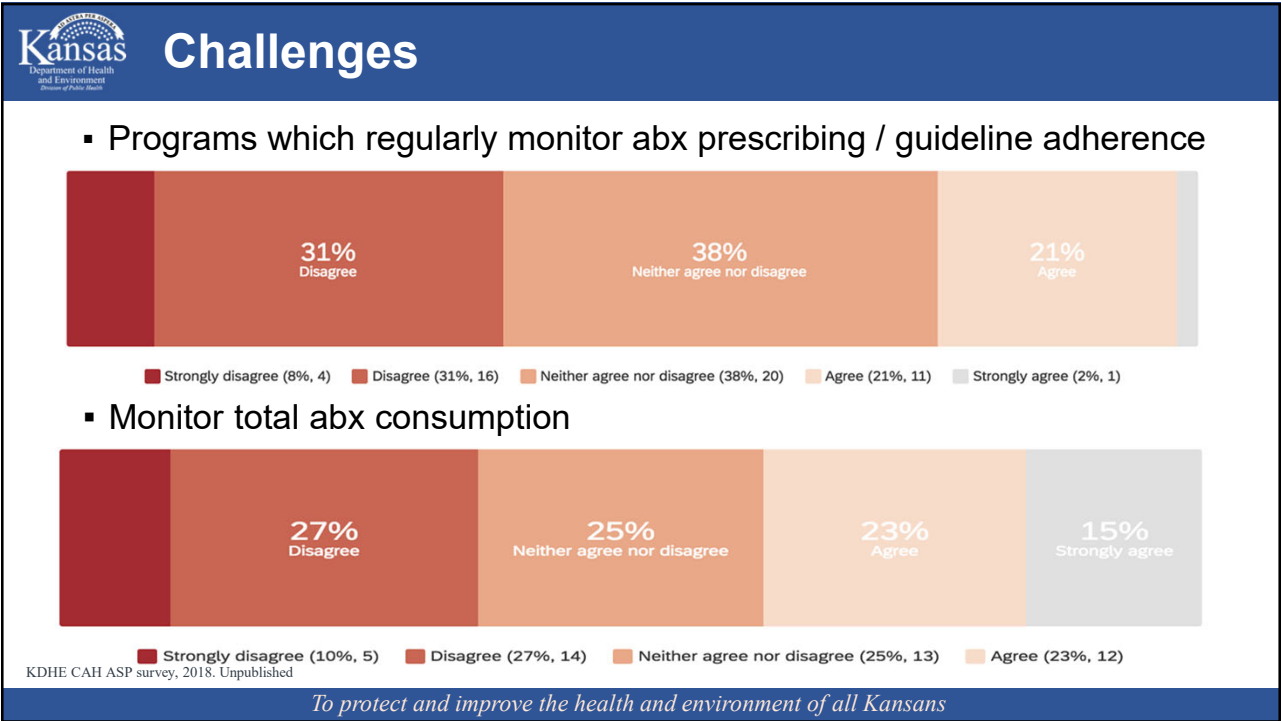
- Intro/step-by-step
- CAUTI
- UTIs
- Urinary utilization
- CLABSIs
- CVC utilization
- C.diff

Interactive HAI tracking tool:

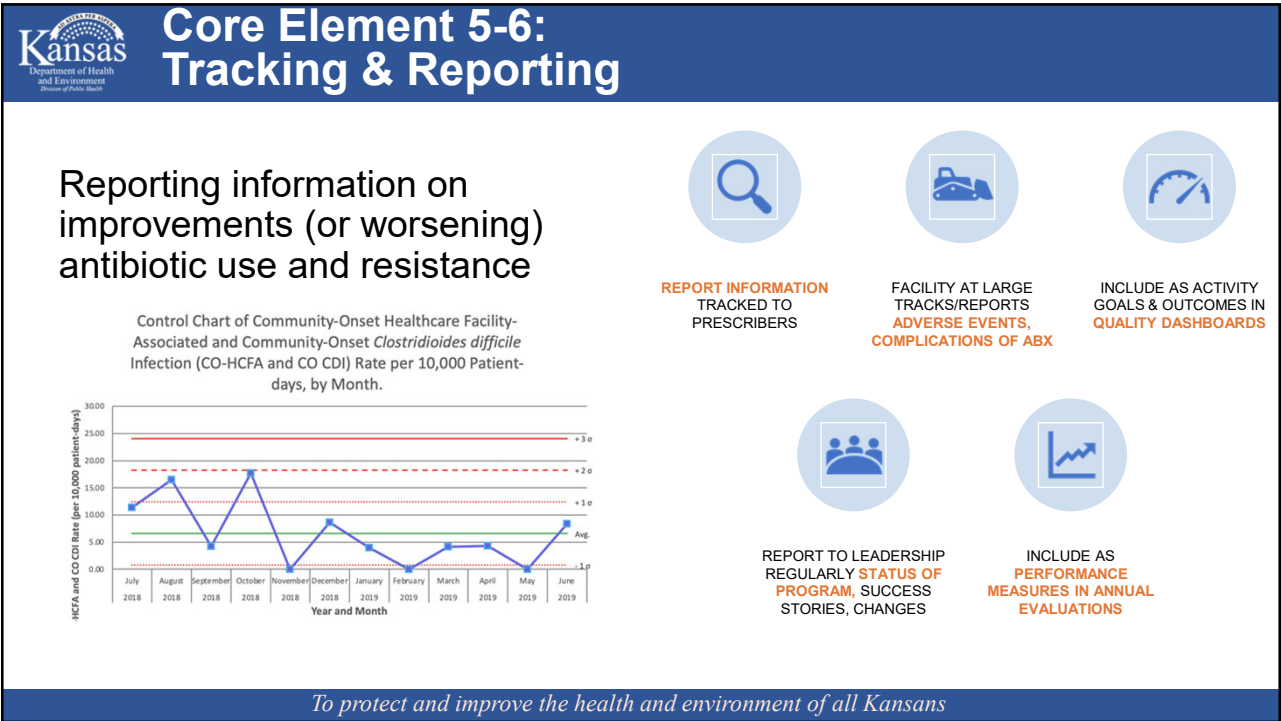
https://www.kdheks.gov/epi/hai/CAH_Toolkit/Spreadsheet_2_Interactive_HAI_Tracking_Tools.xlsx

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Core Element 7: Education

- Education initiatives alone **without focusing on behavioral changes, social norms have small and non-sustained effects**
- Active more effective than passive (i.e., interactive didactics, small groups)
- One-on-one “academic detailing” is more resource intense although more influential
- Educate nursing staff (e.g., response to patients calls w/ URIs, setting expectations, avoiding unnecessary tests)
- Don’t neglect patient education

Abbo et al CID 2013;57(5):631-38.
Grol & Grimshaw 2003
Fleming et al 2013

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Examples of Educational Activities

- Use data collected to educate clinicians
- Educational curriculum on regular basis (staff, patients, families)
- Allocate time + resources to clinician & nursing education
- Require stewardship & AR training to new hires
- Nursing director sets standards for assessing patient conditions (e.g., avoidance test of cure for C.diff, avoidance UA if asymptomatic)
- Nursing director sets standards for relaying patient information to clinicians (e.g., triaging phone calls, involved in rounds)

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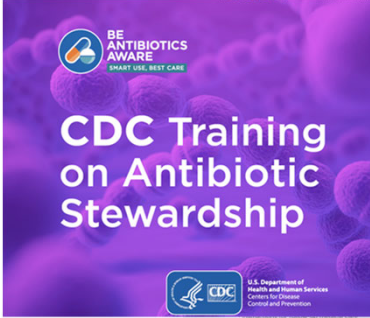
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Resources for Education


- CDC's Be Antibiotic Aware
 - Materials
 - CE for HCPs
- Midwest Antimicrobial Summit (MASC) quarterly One-Health regional approach
 - Sign-up email: MidwestASC@gmail.com

Materials: <https://www.cdc.gov/antibiotic-use/training/materials.html>
Training: <https://www.cdc.gov/antibiotic-use/training/continuing-education.html>



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Don't Forget the Social Determinants

- Physician-physician relationships
 - 3x as likely to prescribe guideline-aligned if clinic partners are aligned & 1.3 times more likely to prescribe poorly if share practice w poor prescribers
- Attitudes
 - “Comfort” of over-prescribing, broad spectrum abx feel “safer”
 - Resistance not felt applicable to locale or personal responsibility
- Litigious factors
- Patient pressures (may over-estimate)
- Time of day


Barlam et al. Infect Control Hosp Epidemiol. 2015;36(2):153-59
Butler et al. BMJ 1998;317;
Sharpshiro Clin Ther 2002;24

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Antimicrobial Stewardship Efforts in KS



Join the fight against antimicrobial resistance and the emergence of superbugs!

Actionable Data


Utilizes the exact data elements necessary for ASP, as defined by the Federal Government and following national standards and guidelines.

Automated Process

Automates a typically manual and highly time-consuming process, eliminating data entry and potential for error.


Real-Time Integration

Automated data flow between your EHR and NHSN's AUR module.



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Poll Question 1

We are interested in gauging facility interest in a dedicated Antibiotic Stewardship Collaborative.

How interested in a dedicated series/collaborative to antibiotic stewardship?

- Very interested
- Somewhat interested
- Not interested at all

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Poll Question 2

Which of the following components/sectors would you be most interested in, if a stewardship collaborative is developed?

(select all that apply)

- Inpatient stewardship
- Critical access hospital-oriented stewardship
- Ambulatory stewardship
- Long-term care stewardship
- Real-world applications (practical interventions, how-to)
- Intervention assistance
- Diagnostic stewardship activities
- Tracking & reporting assistance
- COVID-19 incorporation of antibiotic stewardship
- Other (type in chat)

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Resources & More Information

KDHE wants to help with AS/AR, contact:

KDHE

Bryna Stacey
Bryna.Stacey@ks.gov

Kellie Wark
Kellie.wark@ks.gov
kwark@kumc.edu

Stephanie Lindemann
785-296-5588
Stephanie.Lindemann@ks.gov

24/7 Epidemiology Hotline
877-427-7317
kdhe.epihotline@ks.gov



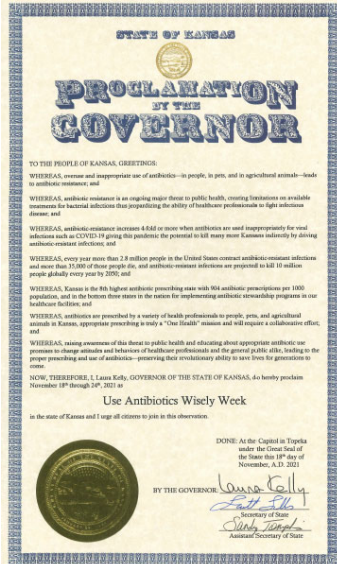
**Healthcare-Associated Infections
& Antimicrobial Resistance Program**



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2021 Gubernatorial Proclamation: "Use Antibiotics Wisely Week"



November 18-24

Office of the Secretary
Curtis State Office Building
1000 SW Jackson St., Suite 540
Topeka, KS 66612-1367
Lee A. Norman, M.D., Secretary



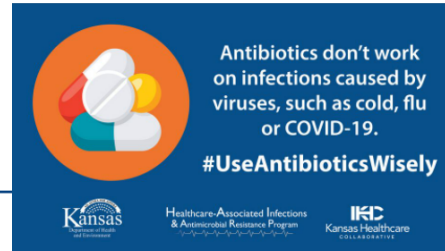
For Immediate Release
Nov. 16, 2021

Governor Kelly and KDHE Ask Kansans to Use Antibiotics Wisely

TOPEKA – Governor Laura Kelly proclaimed Nov. 18–24 as Use Antibiotics Wisely Week in Kansas. The Kansas Department of Health and Environment (KDHE) is asking health care providers and Kansans to use antibiotics wisely to help protect from the threat of growing resistance. This one-week observance led by the Centers for Disease Control and Prevention (CDC) promotes awareness of antibiotic resistance (AR) and the importance of appropriate antibiotic prescribing and use across the United States.

"It will take everyone to do their part in ensuring the proper use of antibiotics," said Secretary Lee Norman, M.D., Kansas Department of Health and Environment. "Utilizing antibiotics only when appropriate will help decrease the amount of antibiotic resistance infections across the state, further protecting all Kansans."

Kansas Department of Health and Environment
November 17 at 7:57 PM · 🌐
Taking antibiotics when they are not needed can hurt your health. It exposes you to adverse drug reactions and increases your risk of getting a future infection that resists antibiotic treatment. Learn more about how to use antibiotics wisely: <https://bit.ly/3DzscBC>.
#UseAntibioticsWisely
Kansas Healthcare Collaborative



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Antibiotic Stewardship

- + Help promote Antibiotic Stewardship in your facility and via social media
- + Posters in English and Spanish
- + Ready-to-go social media posts
- + More educational information

No-cost materials for download at:
www.UseAntibioticsWisely.org

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U.S. Antibiotics Awareness Week is Nov. 18-24

Be Antibiotics Aware Partner Toolkit

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

Check out CDC's USAAW Be Antibiotics Aware Partner toolkit anytime of the year! This toolkit contains key messages, social media content, graphics, and more to help you and your organization support your antibiotic stewardship programs.



To order select free print resources, call 800-CDC-INFO.

- + Patient Education Resources
- + Healthcare Professional Resources
- + Prescription Pads

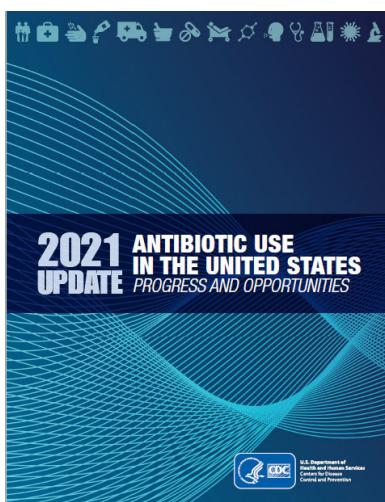
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Antibiotic Use in the U.S., 2021 Update

Just Released!



The Centers for Disease Control and Prevention (CDC) has released its annual report which highlights how antibiotics are being used in the United States.

- + Progress on the U.S. National Action Plan for Combating Antibiotic-Resistant Bacteria (CARB)
- + Data for Action Across Health Care Settings
- + Data on Antibiotic Use and Examples of Stewardship
- + New and Updated Antibiotic Stewardship Resources
- + Antibiotic Stewardship in Action
- + Emerging Opportunities for Antibiotic Stewardship, including health equity and telehealth.


<https://www.cdc.gov/antibiotic-use/stewardship-report/current.html>

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Questions?



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KHC & Compass
Network Updates

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Data Updates

- + Data are due at the end of the following month.
- + Data Refresh
 - Administrative Claims and NHSN transferred to QHi
 - QHi data are sent to Compass
 - Current Data Refresh: 11/9/2021
 - Next Refresh: on or around December 6
- + REMINDER: **FY 2021 administrative claims data is due.**

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Data Update

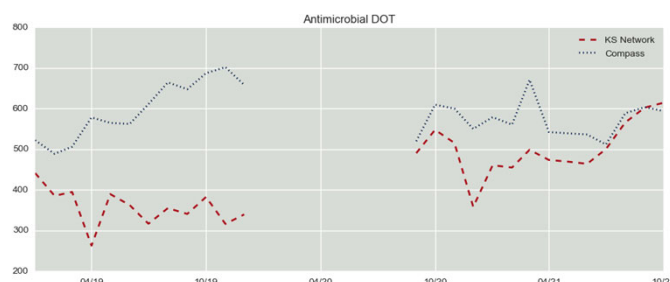
Compass HQIC Antibiotic Stewardship measures

Data Sources	Key
Self-Reported (in QHi)	*
Administrative Claims	**
NHSN	***

Antibiotic Stewardship			Numerator	Denominator	
RO	Carbapenem-resistant Enterobacteriaceae (CRE) Bacteremia Rate	○	Total number of hospital-onset unique blood source CRE events among all inpatients in the facility	Inpatient days facility wide	***
OS	Antimicrobial Days of Therapy (DOT)	○	Aggregate sum of antimicrobial days for which any amount of a specific antimicrobial agent was administered to individual patients as documented in the patient record for observation, acute, SNF, Swing beds and OB inpatient days	Days present defined as the aggregate number of patients housed in a patient care location or facility anytime throughout a day during a calendar month	*

For more information see pages 12-14 of Compass HQIC Measurement Toolkit.
https://mcusercontent.com/267d3f6a0ee71c01eb1a0a387/files/109e393a-26db-3f23-b8c9-6a71d587837a/Compass_HQIC_Toolkit_V1.1_FINAL_10_1_2021.pdf

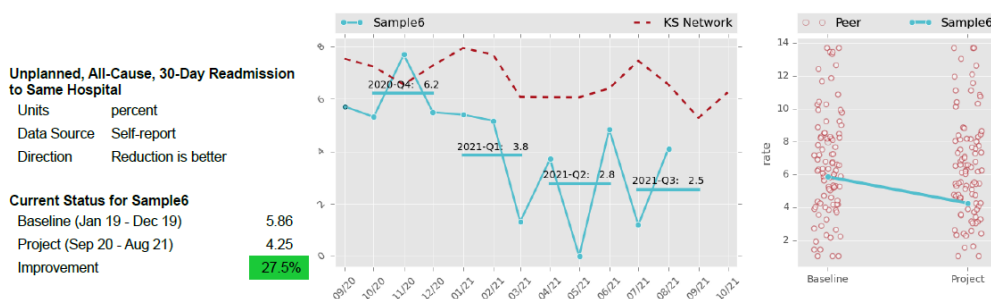
Preliminary data
11/12/2021



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Data Updates

- + Each month a few measures are selected for detailed plots
- + If you wish to see more detailed plots each month, you can select which measures you get in your report. Just let your QIA know, or email ecook-wiens@khconline.org.



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QHi Review Session



Thursday, December 13, 2021

1:00 – 2:00 CT

Register here: <https://cc.readytalk.com/r/ehvg9thsckod&eom>

We will cover how to:

- Add New Users
- Select Measures
- Enter and Import Data
- Run Reports



HEALTHWORKS
KANSAS HOSPITAL ASSOCIATION

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HQIC learning events On-Demand

Visit education.jhonline.org for on-demand learning



Watch for more upcoming events in the Compass Navigator delivered to your inbox on the 1st of each month.

- + Let's ReBoot: Examining Strategies to Reset Culture + Practices Around CLABSI Reduction
- + Exploring Strategies to Prevent Hypoglycemia in Hospitalized Patients
- + Restart PFAC Tracks

Establish New PFAC Track

Engaging PFAC Members

Past webinars that are part of this series can be viewed on-demand using iCompass Academy

- + October 21 (on demand)
- + November 4 (on demand)
- + **December 16 (1-2pm)**

Engaging PFAC Members
December 16
1:00 – 2:00 PM (CST)

Overview
Explore strategies for engaging PFAC members continuously throughout their term.

- Objectives**
- + Explain the importance of each meeting in terms of providing information and soliciting input and solutions
 - + Review the key guidelines including the importance and appreciation of everyone's voice reflective of the diversity of the community
 - + Identify key areas of input needed by PFAC and plan meetings

Register

Upcoming PFAC Podcasts

Best approaches for PFAC recruitment + interviewing
November 18

- Objectives**
- + Explain the importance of each meeting in terms of providing information and soliciting input and solutions
 - + Review the key guidelines including the importance and appreciation of everyone's voice reflective of the diversity of the community
 - + Propose taking the PFAC members on a tour of the hospital along with explanation of units; may need to rotate tours to avoid any unit disruption
 - + Identify key areas of input needed by PFAC and plan meetings

Tune In



Review of Accomplishments
January 2022

- Objectives**
- + Describe and review success stories on recruitment and valuable meetings
 - + Schedule and develop connections with PFAC members and staff

Tune In

Coming Soon: Health Equity

Compass HQIC is currently planning:

- + Health equity focus group discussions (in December)
- + Readmissions and Equity Learning and Action Series with Dr. Amy Boutwell (Jan-May 2022)
- + Reassess progress in PFE & HEOA metrics in December
- + And more. . . Stay tuned!



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KHC Office Hours Resumes in 2022

Register once for all remaining sessions. Save recurring appointment to your e-calendar. Keep abreast of KHC program updates, learn from subject matter experts and peers.

+ December 22

KHC will soon email a new registration link to you for 2022 monthly events.

2021 KHC Office Hours registration link:

https://us06web.zoom.us/webinar/register/WN_0SEpcyqyQgg-TlIGz4kvgQ

All sessions are held from 10 to 11 a.m. CT.
Sessions will be recorded and posted to KHC Education Archive at www.khconline.org/archive.

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Now enrolling up to 8 facilities for 2022 project

Overdose Data to Action

KHC and KDHE are inviting applications from hospitals and clinics to join a clinical quality improvement project to prevent and decrease harms associated with controlled substances, such as opioids and Substance Use Disorder (SUD).

Eligible hospitals and clinics:

- *Serve a high-risk population*
- *Have a need for education, training, policy development and technical assistance around safe prescribing*

For more information, visit www.khconline.org/od2a

and contact Mandy Johnson, MBA, CRHCP

KHC Program Director

Desk: (316) 681-8200 | mjohnson@khconline.org

OD2A Project Goals Summary

1. Increase provider and health system awareness of and support for guidelines
2. Decrease high-risk opioid and/or high-risk controlled substance prescribing
3. Support development of clinical quality improvement around substance use disorder screening, referral, overdose management and linkage to care for patients presenting in the clinic or emergency department.

Project ends August 31, 2022



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Next Steps

- + Plan to reboot/advance your Antibiotic Stewardship Programs.
- + Review your Q.I. Work Plan. Consider goals for 2022.
- + Schedule next coaching call (if not already set)
- + Ensure Compass data entry is complete and timely.
- + Watch your inbox for the Compass Navigator on December 1st.
See hospital spotlight about St. Catherine Hospital's "Suits-to-Scrubs" initiative!



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Have Questions, Need Help?

Kansas Healthcare Collaborative

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Thank you for joining us.

Please complete our brief feedback survey.

<https://www.surveymonkey.com/r/KHC-office-hours-10-27-2021>



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Connect with us on:

-  KHCqi
-  @KHCqi
-  KHCqi



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Operations Manager



Trevia Borchert
Project Coordinator



Phil Cauthon
Communications Director



Michele Clark
Senior Director of Quality Initiatives & Special Projects



Eric Cook-Wiens
Data & Measurement Director



Heidi Courson
Quality Improvement Advisor



Jill Daughette
Quality Improvement Advisor



Azucena Gonzalez
Health Care Quality Data Analyst



Malea Harvickson
Program Director



Mandy Johnson
Program Director



Erin McGuire
Quality Improvement Advisor



Rosanne Rutkowski
Senior Director of Quality Initiatives



Patty Thomsen
Quality Improvement Advisor



Rebecca Thurman
Quality Improvement Advisor

→ Find contact info, bios,
and more at: www.KHOnline.org/staff

STATE OF KANSAS



PROCLAMATION
BY THE
GOVERNOR

TO THE PEOPLE OF KANSAS, GREETINGS:

WHEREAS, overuse and inappropriate use of antibiotics—in people, in pets, and in agricultural animals—leads to antibiotic resistance; and

WHEREAS, antibiotic resistance is an ongoing major threat to public health, creating limitations on available treatments for bacterial infections thus jeopardizing the ability of healthcare professionals to fight infectious disease; and

WHEREAS, antibiotic-resistance increases 4-fold or more when antibiotics are used inappropriately for viral infections such as COVID-19 giving this pandemic the potential to kill many more Kansans indirectly by driving antibiotic-resistant infections; and

WHEREAS, every year more than 2.8 million people in the United States contract antibiotic-resistant infections and more than 35,000 of those people die, and antibiotic-resistant infections are projected to kill 10 million people globally every year by 2050; and

WHEREAS, Kansas is the 8th highest antibiotic prescribing state with 904 antibiotic prescriptions per 1000 population, and in the bottom three states in the nation for implementing antibiotic stewardship programs in our healthcare facilities; and

WHEREAS, antibiotics are prescribed by a variety of health professionals to people, pets, and agricultural animals in Kansas, appropriate prescribing is truly a “One Health” mission and will require a collaborative effort; and

WHEREAS, raising awareness of this threat to public health and educating about appropriate antibiotic use promises to change attitudes and behaviors of healthcare professionals and the general public alike, leading to the proper prescribing and use of antibiotics—preserving their revolutionary ability to save lives for generations to come.

NOW, THEREFORE, I, Laura Kelly, GOVERNOR OF THE STATE OF KANSAS, do hereby proclaim November 18th through 24th, 2021 as

Use Antibiotics Wisely Week

in the state of Kansas and I urge all citizens to join in this observation.

DONE: At the Capitol in Topeka
under the Great Seal of
the State this 18th day of
November, A.D. 2021

BY THE GOVERNOR:

Laura Kelly

Secretary of State

Sandy Tomph
Assistant Secretary of State



Overdose Data to Action (OD2A) Program

The Kansas Healthcare Collaborative (KHC) is working with the Kansas Department of Health and Environment (KDHE) on the Overdose Data to Action (OD2A) project. KHC is accepting applications from hospitals and/or clinics in high risk areas interested in participating in a quality improvement project related to preventing and/or decreasing harms associated with opioids and other controlled substances.

Focus areas may include:

- Decrease providers' self-reported opioid and/or other controlled substance prescribing rates;
- Increase the number of patients receiving non-pharmacological treatments;
- Decrease problematic co-prescribing (e.g. concurrent benzodiazepines and opioids); and
- Increase providers' access to Kansas's Prescription Drug Monitoring Program, K-TRACS.

Project Timeline

Application Period:	Accepted on a first come basis, as funding is available.
Last Date to Start:	June 1, 2022
Wrap-Up Period:	August 31, 2022

Hospital and/or Clinic Responsibility

- 1) Assign a point of contact for the project and meet regularly with a KHC Quality Improvement Advisor in person or virtually during the project period.
- 2) Work with KHC to implement quality improvement cycles, change concepts, policy development and implementation around safe prescribing, screening processes, and/or increasing referrals to evidence-based treatment and other community-based resources, including the use of K-TRACS.
- 3) Agree to share details of the quality improvement project and create a storyboard with individualized data for tracking progress (with the assistance of KHC staff) to be shared with KDHE and potentially other Kansas practices.

Benefits of Participation include:

- Alignment with other KHC Quality Initiatives such as the HQIN and Compass HQIC initiatives' strategies for Behavioral Health, with a focus on Opioids and Patient Safety categories:
 - Implement best practices for opioid and other controlled substance medication prescribing.
 - Decrease opioid-related adverse drug events for patients who take high-risk medications or have a behavioral health diagnosis.
- A small financial stipend upon completion of the project and submission of the storyboard.

For more information contact your KHC Quality Improvement Advisor or visit www.khconline.org/od2a

Engaging PFAC Members

December 16

1:00 - 2:00 PM (CST)

Overview

Explore strategies for engaging PFAC members continuously throughout their term.

Objectives

- + Explain the importance of each meeting in terms of providing information and soliciting input and solutions
- + Review the key guidelines including the importance and appreciation of everyone's voice reflective of the diversity of the community
- + Identify key areas of input needed by PFAC and plan meetings

Register

<https://us06web.zoom.us/j/89571534845?pwd=Mkt0eVFnOklzSFVGb2t2MVU3cmViQT09> (Link)

Upcoming PFAC Podcasts



Best approaches for PFAC recruitment + interviewing

November 18

Objectives

- + Explain the importance of each meeting in terms of providing information and soliciting input and solutions
- + Review the key guidelines including the importance and appreciation of everyone's voice reflective of the diversity of the community
- + Propose taking the PFAC members on a tour of the hospital along with explanation of units; may need to rotate tours to avoid any unit disruption
- + Identify key areas of input needed by PFAC and plan meetings

Tune In

<https://www.ihconline.org/icompass/dashboard/post-list?category=hospital#page=0&subcategoryId=6837a60c-53e6-40f1-ba1f-24c3865013e8&posttype=resource> (Link)

Review of Accomplishments January 2022

Objectives

- + Describe and review success stories on recruitment and valuable meetings
- + Schedule and develop connections with PFAC members and staff

Tune In

<https://www.ihconline.org/icompass/dashboard/post-list?category=hospital#page=0&subcategoryId=6837a60c-53e6-40f1-ba1f-24c3865013e8&posttype=resource> (Link)

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