HIIN Goal:
By March 2020, hospitals in the KHC HIIN will achieve 20% reduction in all-cause harm and 12% reduction in readmissions.

Special Guests
- Nadyne Hagmeier, RN, Quality Improvement Consultant, Kansas Foundation for Medical Care, Inc. nhagmeier@kfmc.org

Kansas Healthcare Collaborative
- Michele Clark, Program Director, mclark@khconline.org
- Eric Cook-Wiens, Data and Measurement Director, ecook-wiens@khconline.org
- Chuck Duffield, Performance Improvement Manager, cduffield@khconline.org
Agenda

Welcome and Announcements
Antimicrobial Stewardship in Kansas
Outpatient Antibiotic Stewardship Initiative
Announcements and Updates
HIIN Data and Measures Update
HIIN Resources and Upcoming Events

Antimicrobial Stewardship in Kansas:

Bryna Stacey, MPH, BSN, RN
Director, Healthcare-Associated Infections and Antimicrobial Resistance Program
Bryna.Stacey@ks.gov

Justin Blanding, MPH
AR Epidemiologist, Healthcare-Associated Infections and Antimicrobial Resistance Program
Justin.Blanding@ks.gov
Antimicrobial Stewardship in Kansas: What have we done & what can we keep doing?

Antimicrobial Stewardship: What is it?

Antimicrobial Resistance =
Ability of organisms to resist the effects of the drugs meant to destroy them

Antimicrobial Stewardship =
Appropriate use of antimicrobials to:
- Optimize outcomes for patients
- Reduce resistance
- Reduce other adverse events

Right drug, right dose, right frequency, right duration, right route

To protect and improve the health and
Antimicrobial Stewardship: What is it?

- Leadership commitment: Demonstrable support and commitment to safe and appropriate antibiotic use in your facility.
- Accountability: Identify processes, testing, and pharmacy leads responsible for preventing and overseeing antibiotic stewardship initiatives in your facility.
- Antimicrobial Stewardship Programs:
  - A tool for clinical practice improvement.
  - Drug expertise: Establish access to consultant pharmacists or other individuals with expertise in antibiotic stewardship.
  - Antimicrobial Stewardship Programs:
    - Guide for Clinical Practice Improvement.
  - Drug use.
  - Antimicrobial Stewardship Programs:
    - Antimicrobial Stewardship Programs:
      - Guide for Clinical Practice Improvement.
  - Drug expertise.
  - Antimicrobial Stewardship Programs:
    - Guide for Clinical Practice Improvement.
  - Drug expertise.

Antimicrobial Stewardship in Kansas

- Percent of Hospitals with Antibiotic Stewardship Programs by State, 2014:
  - Antibiotic stewardship programs ensure patients get the right antibiotics at the right time for the right duration.
  - Nationally, 39.2% of all hospitals have stewardship programs (NHPCO, 2010). The national goal is 75% of hospitals by 2020.
Antimicrobial Stewardship in KS

To protect and improve the health and

Antimicrobial Stewardship in KS

To protect and improve the health and
Antimicrobial Stewardship in KS

Percentage of Hospitals Meeting all 7 Core Elements of Hospital Antibiotic Stewardship Programs* by State, 2017

Nationally, 84.4% of hospitals have met all 7 Core Elements (4.239 of 4.999); the national goal is 100% of hospitals by 2020.

Source: CDC's National Healthcare Safety Network (NHSN) Survey

To protect and improve the health and...
Antimicrobial Stewardship in KS: What have we done so far?

Kansas Workshop: Hospital Antimicrobial Stewardship
• One-day ASP workshop for acute settings
• Free attendance
• Team participation
• Travel funding
• Tools & time provided to create action plans
• Follow-up calls for all attending facilities
• Pre & post-workshop team ASP assessment surveys

Methods
• Online survey completion
  • Before and after workshop

• CDC 13 Core Elements of Hospital Antibiotic Stewardship Programs
  • 5-point Likert scale

• Statistical analysis using SAS 9.4
  • Wilcoxon signed-rank test
  • p ≤ 0.05 significant level
Results

- 61% (42) of hospitals completed both core element surveys
- 12 of 13 core elements noted positive changes from pre- to post- assessment
  - 43% (n=6) improved at a statistically significant level
  - One element, providing salary support, did not change

---

Kansas Hospital Antibiotic Stewardship Workshop

Our Stewardship Program has positively impacted prescribing behaviors and practices ($p<.0001$)

Before
- Strongly Disagree: 33%
- Disagree: 35%
- Neither: 60%
- Agree: 60%
- Strongly Agree: 60%

After
- Strongly Disagree: 16%
- Disagree: 33%
- Neither: 60%
- Agree: 60%
- Strongly Agree: 60%

Kansas 2018 Hospital Antibiotic Stewardship Workshop, KDHE unpublished data (2019)
Kansas Hospital Antibiotic Stewardship Workshop

Hospital has specific treatment recommendations to assist with antibiotic selection for common clinical conditions (p=0.0469)

Before: 57%
After: 64%

Broad interventions are implemented to improve antibiotic prescribing (p<.0001)

Before: 45% Strongly Disagree, 29% Disagree
After: 29% Strongly Disagree, 64% Disagree

Kansas 2018 Hospital Antibiotic Stewardship Workshop, KDHE unpublished data (2019)
Kansas Hospital Antibiotic Stewardship Workshop

Monitors antibiotic and patient outcomes through evaluation of adherence to policies and guidelines and evaluation of interventions implemented (p=0.0001)

Before

After

0% 20% 40% 60% 80% 100%

Strongly Disagree  Disagree  Neither  Agree  Strongly Agree

Kansas 2018 Hospital Antibiotic Stewardship Workshop, KDHE unpublished data (2019)

To protect and improve the health and

Kansas Hospital Antibiotic Stewardship Workshop

Provides education to clinicians and other relevant staff on improving antibiotic use (p=0.0004)

Before

After

0% 20% 40% 60% 80% 100%

Strongly Disagree  Disagree  Neither  Agree  Strongly Agree

Kansas 2018 Hospital Antibiotic Stewardship Workshop, KDHE unpublished data (2019)

To protect and improve the health and
Workshop Summary

- All but one core element assessed had higher percentage of respondents agreeing or strongly agreeing
- Six elements improved at a statistically significant level
- Team-based approaches can improve antibiotic stewardship programs at facilities
- Continued efforts, such as technical assistance and training opportunities can improve stewardship activities in Kansas

Antimicrobial Stewardship in KS: What have we done so far?
Antimicrobial Stewardship in KS: What can we do to continue to improve?

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.

How can we help your ASP?
Please let us know:

**KDHE**

Bryna Stacey
785-296-4090
Bryna.Stacey@ks.gov

Justin Blanding
785-296-1412
Justin.Blanding@ks.gov

24/7 Epidemiology Hotline
877-427-7317
kdhe.epihotline@ks.gov
Antimicrobial Stewardship in KS: What can we do to continue to improve?

To protect and improve the health and

THANK YOU!
Great Plains QIN Outpatient Antibiotic Stewardship Initiative

Nadyne Hagmeier

- 186 Outpatient Provider Settings
  - Provider offices
  - Hospital ED/Outpatient Departments
  - Local Health Departments
  - Rural Health Clinics
  - Pharmacies
- 166 met all four CDC Core Elements!
  - Commitment – 186
  - Action – 181
  - Tracking & Reporting – 166
  - Education & Expertise - 181
Core Element Checklist

Checklist for CEC’s Core Elements of Outpatient Antibiotic Stewardship
Evaluations designed to measure outcomes can vary in their impact on improvement initiatives. Core elements are intended to capture value and serve as a reference point for others who are implementing core elements in specific care areas or as a general test (e.g., annually).

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Core Element</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environmental</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
</tbody>
</table>

Name of Facility:

Change the information inside the box to fit your specific facility. Use the checklist below to evaluate your facility’s progress.

Goal:

Core elements should be evaluated autonemously for optimal outcomes, providing and reporting on patient safety indicators. Use this tool to track progress and report results.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Action</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
</tbody>
</table>

Tracking and Scoring:

Each facility is scored on the percent of antibiotic prescription. Use this tool to track progress and report results.

<table>
<thead>
<tr>
<th>Phase</th>
<th>Score</th>
<th>Action</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
<tr>
<td>○ Environmental</td>
<td>○ Environment</td>
<td>○ Environment</td>
<td>○ Environment</td>
</tr>
</tbody>
</table>

Commitment Posters

A Commitment to Our Patients

We are committed to providing antibiotics only when they are necessary. We will avoid giving your antibiotics when they do more harm than good.

How can you help?

When you have a cough, sore throat or other illness, tell your doctor you only want an antibiotic if it is really necessary.

If you are not prescribed an antibiotic, ask your pharmacist if you can do to feel better and get relief from your symptoms.

As your healthcare provider:

We promise to provide the best possible treatment for your condition.

If an antibiotic is not needed, we will explain why to you and will offer a treatment plan that will help.

At our hospital, we:

- Focus on providing antibiotics only when they are necessary.
- We will avoid giving your antibiotic when they do more harm than good.
- We will discuss your situation with your physician if we think an antibiotic is needed.
- We will inform you if we change our plans for antibiotic treatment.
- We will offer a treatment plan that will help.

The following are some of our anti-antibiotic strategies:

- Use patient education to reduce antibiotic use.
- Use patient education to reduce antibiotic use.
- Use patient education to reduce antibiotic use.
- Use patient education to reduce antibiotic use.

Healthcare professionals are committed to reducing antibiotic use.

For more information, please call...

Phone: (555) 123-4567
Email: info@yourhospital.com
Address: 123 Hospital Street, Anytown, USA 12345

We value your feedback and are committed to improving the quality of care we provide. If you have any questions or concerns, please contact us at...
**Viral Symptom Management RX**

RX Patient Name: ___________________________ Date: ____________

The symptoms you presented today suggest a VRS/RH infection.

1. Upper Respiratory Tract Infection (Common Cold): Lasts 7-10 days
2. Lower Respiratory Tract Infection (Pneumonia): Lasts 14 days, or until sputum turns clear
3. Bronchiolitis (Strep): Lasts 7-10 days
4. Lower Respiratory Infection (Bronchiolitis): Lasts 7-10 days

If you have not been prescribed antibiotics because antibiotics are not effective in treating viral infections, you can use the following tips to help manage your symptoms and may prevent some serious harm.

1. Take a warm bath or shower.
2. Drink plenty of fluids.
3. Rest as much as possible.
4. Take over-the-counter medications as advised.
5. Stay away from those already ill.

If you follow these instructions, you should feel better soon.

Please contact your provider if:

- Symptoms do not improve in 2 days, or worsen at any time.
- Symptoms persist for more than 10 days.

[Prescription]

Intervention Tools

**TOP 5 Questions you can ask your healthcare provider about ANTIBIOTICS:**

1. "Do I really need an antibiotic?"
2. "Can I get better without the antibiotic?"
3. "What side effects or drug interactions can I expect?"
4. "What side effects should I report to you?"
5. "How do you know what kind of infection I have? I understand that antibiotics won't work for viral infections?"
For More Information Contact

Nadyne Hagmeier
The Kansas Foundation for Medical Care, Inc.
800 SW Jackson St, Ste 700
Topeka, Kansas 66612
nhagmeier@kfmc.org
1-800-432-0770

KHC Announcements and Updates

- Remaining HIIN Milestone Schedule
- Last call for join collaboratives: Performance Improvement and Age-Friendly
- Let’s finish HIIN Strong!

Michele Clark
MBA, CPHQ, CPPS, ABC
Program Director
Kansas Healthcare Collaborative
mclark@khconline.org
(785) 235-0763 x1321
KHC HIIN Milestones

**DUE DATES**

- **Milestone 14** .... October 15
  (August 2018 to July 2019)
- **Milestone 15** .... December 18
  (through September 2019)
- **Milestone 16** .... March 16
  (through December 2019)

Milestones consider:

- Data completeness for recent 12-month period
- Progress toward HIIN “20/12” Goals
- Implementation status of 5 Patient and Family Engagement (PFE) Metrics
- Implementation status of 7 Health Equity Metrics

Let’s Finish HIIN Strong!

What will be your hospital’s success story?
It’s Not Too Late to Enroll . . .

Group #1 enrollment is open through November 10

Rolling admissions through November, 2019

HRET HIIN PI Collaborative

AHA Age-Friendly Health Systems

Link to enroll: https://www.surveymonkey.com/r/PIcollaborative
### Kansas hospitals enrolled in PI Collaborative

*(preliminary list as of 10/18/2019)*

- Atchison Hospital
- Comanche County Hospital
- Community Healthcare System
- Ellsworth County Medical Center
- F.W. Huston Medical Center
- Goodland Regional Medical Center
- Gove County Medical Center
- Greenwood County Hospital
- Hanover Hospital
- Holton Community Hospital
- Hospital District No. 1 of Rice County
- Hutchinson Regional Medical Center
- Labette Health
- LMH Health
- Logan County Hospital
- Menorah Medical Center
- Miami County Medical Center, Inc.
- Mitchell County Hospital Health Systems
- Morton County Health System
- Olathe Medical Center, Inc.
- Phillips County Hospital
- Republic County Hospital
- Rooks County Health Center
- Salina Regional Health Center
- Scott County Hospital
- South Central Kansas Medical Center
- St. Catherine Hospital
- St. Luke Hospital and Living Center
- Sumner County Hospital District No. 1
- Trego County Lemke Memorial Hospital
- Wamego Health Center
- Western Plains Medical Complex

### AHA Age-Friendly Action Community

- Enrollment is open through mid-November.
- Participants are recognized as an Age-Friendly Health System.

How does Age-Friendly Relate to the HIIN Goals?

Cross cut with HIIN measures

- Falls with injury
- Patient Family & Engagement
- Adverse Drug Events
- Delirium
- Pressure Ulcers

Invitation to Join
Highlights the 4Ms and how to join the action community

Email ahaactioncommunity@aha.org with any questions.

Next Steps for HIIN

- Take advantage of HIIN resources.
- Focus on "opportunities." Finish strong over the next five months.
- Anticipate and prepare for next round of CMS Partnership for Patients program priorities to begin in 2020.

Let's Finish HIIN Strong!
KHC HIIN Measures and Data Update

- Current status
- October data reports
- Data submission schedule

Improvement on selected KHC HIIN measures

Source: HRET Improvement Calculator v7.0
Improvement on selected KHC HIIN measures

Source: HRET Improvement Calculator v7.0

C. diff rate

- KS: 24.2% reduction from baseline
- On average, KS has a lower rate than HRET
- Most facilities report C. diff rates between 0 and 10 per 10,000 pt. days

Note: data from 3 facilities removed from scatter plot due to extreme values.
# Kansas HIIN – Monthly Data Submission Schedule

<table>
<thead>
<tr>
<th>Outcome &amp; Process Measures for HACs occurring in:</th>
<th>Readmissions for index discharges in, and SSI for procedures performed in:</th>
<th>Data Submission Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2019</td>
<td>December 2018</td>
<td>February 28</td>
</tr>
<tr>
<td>February 2019</td>
<td>January 2019</td>
<td>March 31</td>
</tr>
<tr>
<td>March 2019</td>
<td>February 2018</td>
<td>April 30</td>
</tr>
<tr>
<td>April 2019</td>
<td>March 2019</td>
<td>May 31</td>
</tr>
<tr>
<td>May 2019</td>
<td>April 2019</td>
<td>June 30</td>
</tr>
<tr>
<td>June 2019</td>
<td>May 2019</td>
<td>July 31</td>
</tr>
<tr>
<td>July 2019</td>
<td>June 2019</td>
<td>August 31</td>
</tr>
<tr>
<td>August 2019</td>
<td>July 2019</td>
<td>September 30</td>
</tr>
<tr>
<td>September 2019</td>
<td>August 2019</td>
<td>October 31</td>
</tr>
<tr>
<td>October 2019</td>
<td>September 2019</td>
<td>November 30</td>
</tr>
<tr>
<td>November 2019</td>
<td>October 2019</td>
<td>December 31</td>
</tr>
<tr>
<td>December 2019</td>
<td>November 2019</td>
<td>January 31</td>
</tr>
</tbody>
</table>

## Resources and Upcoming Events

**Resources and Upcoming Events**

**Chuck Duffield**  
KHC Performance Improvement Manager  
duffield@khconline.org  
(785) 235-0763 x1327  
and  
**Phil Cauthon**  
KHC Communications Director  
cauthon@khconline.org  
(785) 235-0763 x1322
Antibiotic Awareness Week • Nov. 18-24
→ UseAntibioticsWisely.org

Antibiotic awareness posters available to download, print, and display in your facility.

11”x17” PDFs available in both in English and Spanish.

→ KHConline.org/antibiotics
Customized posters

NEW! Email your logo to Phil:

→ pcauthon@khconline.org

We will email you posters in both languages customized with your own logo.

Antibiotic Awareness Week • Nov. 18-24

Social media images and sample posts for the entire week also available for your use at:

→ KHConline.org/antibiotics

Or you can share KHC’s posts at:

Facebook.com/KHCqi
Twitter/KHCqi
**Announcements and Updates**

**Antibiotic Awareness Week • Nov. 18-24**

#UseAntibioticsWisely campaign

Overuse and misuse of antibiotics is creating a major threat to public health and antibiotic resistance. We are all part of the problem—and the solution. Antibiotics only work on bacteria, not viruses that cause colds or flu. Taking an antibiotic when it’s not needed will not help you recover faster. However, doing so does contribute to antibiotic resistance.

KHC and KHC have developed a statewide campaign to spread the word about what patients and providers can do to help. We invite health care providers and the public to participate within their facilities and communities.

- "Know the Facts" poster (large pdf)
- "Know the Facts" Spanish poster (large pdf)

KHC hospitals and healthcare organizations may customize the "Know the Facts" posters with your color scheme and name the poster "KHC, and we will send you a customized PDF for your organization to use.

- "Know the Facts" images and text for social media (141)
- Facebook.com/KHC
- Twitter.com/KHC
- Tool for patients to determine if you need antibiotics

Clinics and hospitals are encouraged to email KHC a photo of a "Know the Facts" poster. KHC posts these on social media to help spread the word about the availability of these posters. For more information, contact Phil Clawson at KHC (913) 235-0962.

- Governor’s Office of Kansas Aids Residents to Help Safeguard Antibiotics
- "What’s Got You Sick? Vitamins or Bacteria?" graphic from CDC
- Awareness resources from CDC

All materials available at:  
→ UseAntibioticsWisely.org

---

**Upcoming Events**

**Upcoming KHC HIIN Webinars**

*Monthly KHC HIIN Webinars*

- **Nov 20, 2019** | 10:00 to 11:00 am  
  Register Here: [https://khconline.adobeconnect.com/khc-hiin-11-20-19/event/registration.html](https://khconline.adobeconnect.com/khc-hiin-11-20-19/event/registration.html)

- **Dec 18, 2019** | 10:00 to 11:00 am  
  Register Here: [https://khconline.adobeconnect.com/khc-hiin-12-18-19/event/registration.html](https://khconline.adobeconnect.com/khc-hiin-12-18-19/event/registration.html)

*KHC Hand Hygiene Collaborative*  
Quarterly Virtual Session for Cohort 2

- **Nov 1, 2019** | 11:00 a.m. – 12:00 p.m.
  Contact Chuck Duffield (cduffield@khconline.org) for webinar registration link.
Upcoming Sessions for those enrolled . . .

**HRET HIIN PL Collaborative**

- **HRET HIIN PERFORMANCE IMPROVEMENT COLLABORATIVE**
  - October 2019 - March 2020
  - Session #2 . . . . . . November 11
  - Session #3 . . . . . . January 13
  - Session #4 . . . . . . February 10
  - Session #5 . . . . . . March 9

  All sessions are 11 am to 12 pm CT

**AHA Age-Friendly Health Systems**

- **Age-Friendly Health Systems**
  - Topical Peer Coaching . . . October 23
  - Team Webinar 2 . . . . . November 6
  - IHI Leaders Webinar* . . . November 12

  *Will provide an overview on The Business Case for Becoming an Age-Friendly Health System.

  All sessions are 1 to 2 pm CT

---

### Kansas Healthcare Collaborative

**Three-part De-escalation Webinar Series**

- **Oct. 22** – *Sticks and Stones and Getting Along:*
  Controlling Conflict with Communication

- **Nov. 12** – *All Patients are Unique (Just Some more than Others):*
  De-escalation Techniques in Atypical Health Care Settings

- **Dec. 10** – *SECUITY: Who is Responsible?*
  (Hint: It’s someone you know.)

Register here: [https://registration.kha-net.org/](https://registration.kha-net.org/)

Links to webinar recordings will be available in **KHC HIIN Education Archive**: [https://www.khconline.org/initiatives/hiip/education/khc-hiin-past-educational-events](https://www.khconline.org/initiatives/hiip/education/khc-hiin-past-educational-events)
Summit on Quality 2020

May 8
Hyatt Regency
Wichita, Kansas

Mark your calendar!

Please follow KHC on social media!

We’ll help you spread your messaging and provide you with messaging that your organization is free to use.
Resources

- Kansas Healthcare Collaborative
  www.khconline.org
- AHA/HRET Hospital Improvement Innovation Network
  www.hret-hiin.org
- CMS Partnership for Patients
  https://partnershipforpatients.cms.gov/
- Partnership for Patients Healthcare Communities
  https://www.healthcarecommunities.org/CommunityHighlights/PartnershipforPatients

Please provide feedback to this webinar. Let us know your next steps.

https://www.surveymonkey.com/r/HIIN-Webinar-10232019

We welcome your ideas for future topics!!