



Kansas Department of Health and Environment (KDHE)

## Antimicrobial Stewardship in Kansas



## Bryna Stacey, MPH, BSN, RN

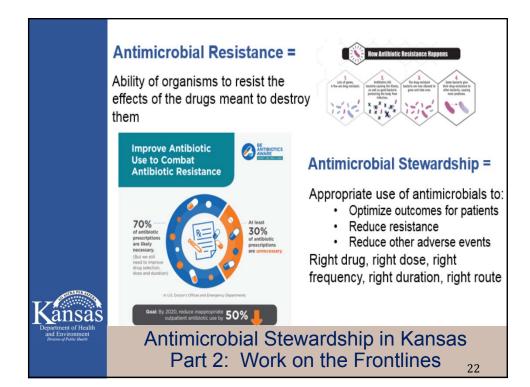
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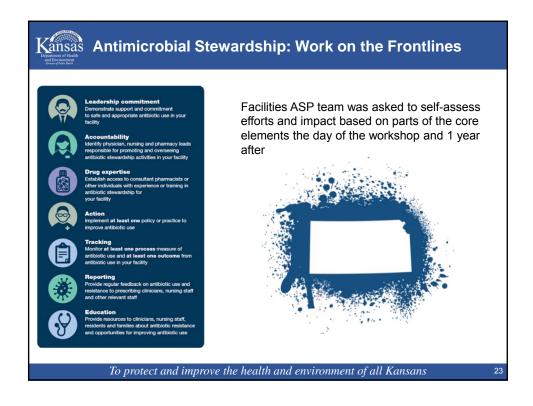


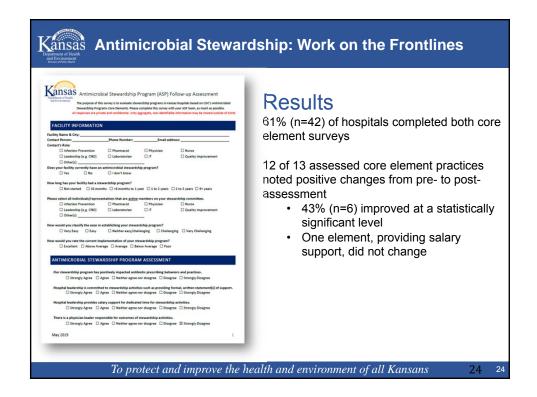
## Kellie Wark, MD, MPH

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To protect and improve the health and environment of all Kansans









# Antimicrobial Stewardship at OCMH Reviewed the KDHE Antimicrobial Stewardships Toolkit for Critical Access Hospitals. Decision was made to proceed with the program. Started with education (#7 Core element). Educated medical staff, nursing staff, and the public. Helped establish a foundation for what is needed.

# Addressing the Challenge • After starting education, formed a committee including: • Marianna Harris, our CEO • Linda Murphy, our CFO • Monica Mullender, our Director of Nursing • Lori Rothenberger, our Assistant Director of Nursing • Mandy Simon, our Lab Director • Kaylene Heller, Pharmacist (she has a retail store down town and is not located in the hospital) • Kristen Hadley, Quality • Dr. Brown (Chief of Medical Staff) • Darlene Hadley, Pharmacy Nurse • Cindy Hyde, Infection Prevention

# Key Strategies Implemented Initially met and decided to track antibiotic usage every month. Information was gathered monthly and presented it to Medical Staff (monthly) and at the Antimicrobial Stewardship committee meetings. Monthly meetings were soon changed to meeting quarterly.

## Hospital Sharing – OCMH

## Results

- Great leadership commitment with the CEO and CFO as active participates of the committee.
- Submit our Antimicrobial Stewardship minutes to the Board of Directors every quarter.
- The board signed the letter of commitment. (Core Element # 1).
- Education for all staff helped ensure the entire staff to feel responsible for Antimicrobial Stewardship. (Core element #2).
- The retail pharmacist, pharmacy nurse, and chief of medical staff are considered our drug experts. We are all continually learning (Core Element # 3).

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## Hospital Sharing - OCMH

## Lessons Learned

- Worked on the diagnosis and length of days for antibiotic orders.
   When the hospital switched to Cerner's EHR this was built into the orders.
- Developed a specific protocol on Community Acquired Pneumonia for our facility. (Core Element # 4).
- Started by tracking antibiotics given each month and the number of days in order to respond to any resistant bacteria and the diagnosis. (Core Element # 5).
- Continue providing providers with the antibiotic usage form every month at medical staff along with a days of therapy graph twice a year. (Core Element # 6).

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## Next Steps

- Continue to provide ongoing education, to staff, medical staff, the board of directors and the community. Use of posters and brochures provided by CDC and KDHE. (Core Element # 7).
- Next steps: continue education, develop additional protocols and continue to monitor our progress with antimicrobial stewardship.

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# Our Antibiotic Stewardship Journey In April 2017, our hospital was very early in our implementation of an Antimicrobial Stewardship Program. The 2018 KDHE HAI/AR Antibiotic Stewardship Workshop in Salina with Dr. Steve Tremain helped us focus our efforts.

## Addressing the Challenges

- 7 Core Elements:
- Formal Leadership support developed a written a policy of administrative support.
  - Our CNO is part of our Antibiotic Stewardship Committee
  - Other members include: Chair-David Bowers, Pharmacy Director,
     Physician Champion-Dr. Siemons, Pharmacist-Tom Shrimplin, Infection
     Prevention-Cindy Tiblow, Quality & Patient Safety-Dorothy Rice, and Kelli
     Boetel, Administrative Director of IP Services (IP, ICU and OB) & Emergency
     Department and Amy Hall, Lab Director.
- Budgetary Financial Support-Pharmacy salaries, IT and training

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## Hospital Sharing – AdventHealth

Hospital Sharing - AdventHealth

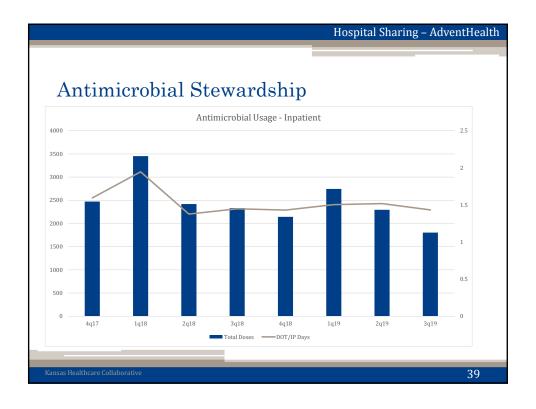
## Addressing the Challenges

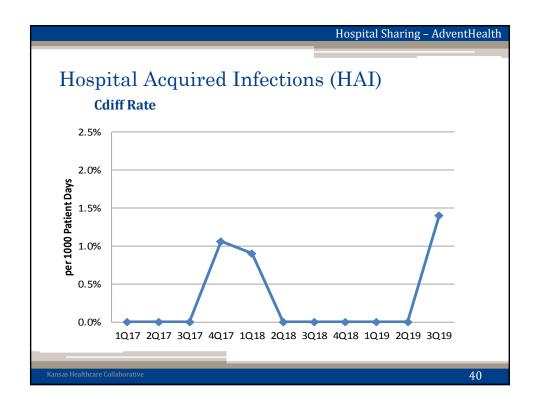
- · Pharmacist Leader responsible for improving antibiotic usage
  - · Chair-David Bowers
- Policy supports inclusion of a dose and duration for all antibiotics. The indication has been the difficult issue due to our current system but we will have this soon.
- We have facility specific treatment guidelines/order sets for antibiotics such as for Sepsis, Pneumonia, UTI, Surgical prophylaxis and Cellulitis as examples

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# Addressing the Challenge De-escalation of antibiotics PI Data on antibiotic usage: Hospital Acquired Infections such as C Diff Rate (Zero for several qtrs.) Vancomycin Appropriate Diagnoses study Overall Antimicrobial Usage (Doses dispensed per adjusted pt. days) Pharmacy Interventions Education of providers Physician and staff have received education re: antibiotic stewardship and the consequences of over use of antibiotics.

# Key Strategies Implemented • Key areas where our hospital has made progress: • Collection and analyses of our data-Vancomycin example • IV to PO conversion or discontinuation of unnecessary antibiotics (use of Pharmacy careplans) • Pharmacy huddles with the clinicians daily • Pharmacy training on antibiotic stewardship with MAD-ID • Provided an antibiogram for physicians • Pharmacokinetics (adjustment for renal dosing, peak & trough, etc.)





## Hospital Sharing – AdventHealth

## Lessons Learned

- · What did you learn in the process?
  - Where to find the resources, that we aren't in this alone and that we do have opportunity to continue to improve on our practices of antibiotic prescribing.
- · What resources were most helpful?
  - KDHE, HIIN, The Joint Commission, CDC
- What advice would you share with others on this same journey?
  - It is a journey. Healthcare in general is making progress to reduce harm to our patients and antibiotic stewardship is another spoke in the wheel to reduce harm. We have to continue to be diligent about reducing over-usage of antibiotics for our patients!!

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## Hospital Sharing – AdventHealth

## Next Steps

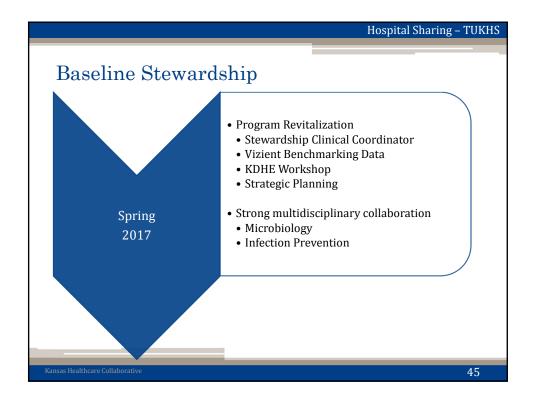
Next steps for our organization in advancing our Antimicrobial Stewardship Program:

- 1) Share facility-specific reports on antibiotic use with prescribers
- 2) Share provider-specific reports in 2020
- 3) Have more antibiotic usage data to make decisions on such as situations where therapy might be unnecessarily duplicative

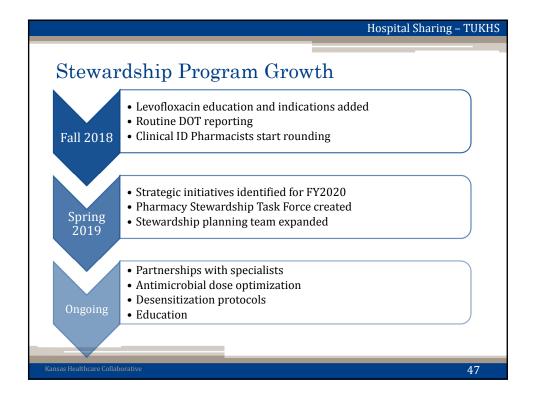
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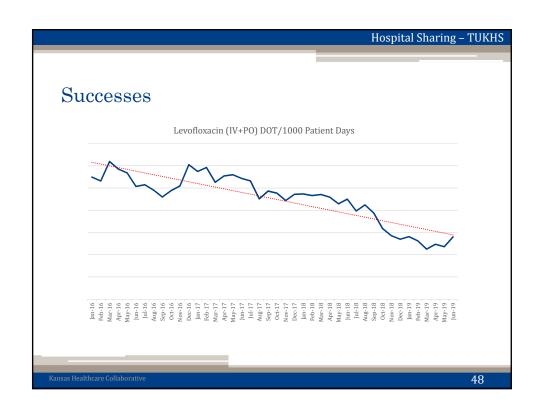


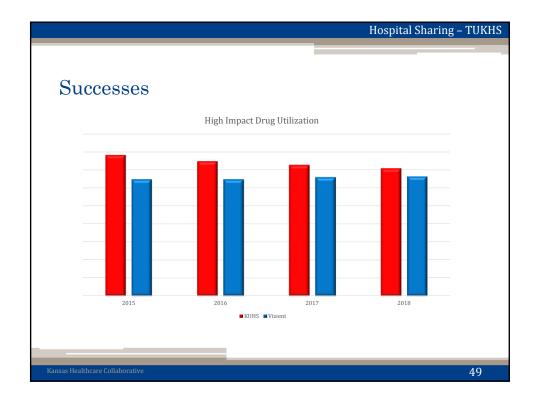


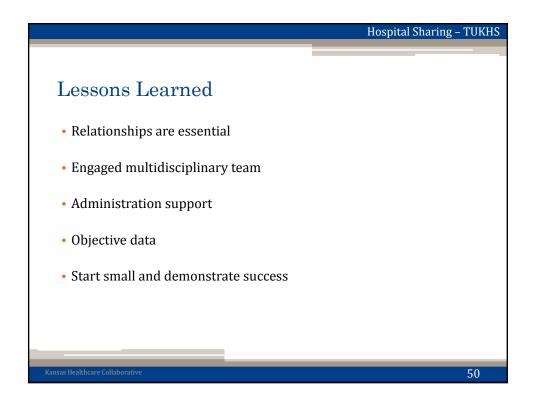




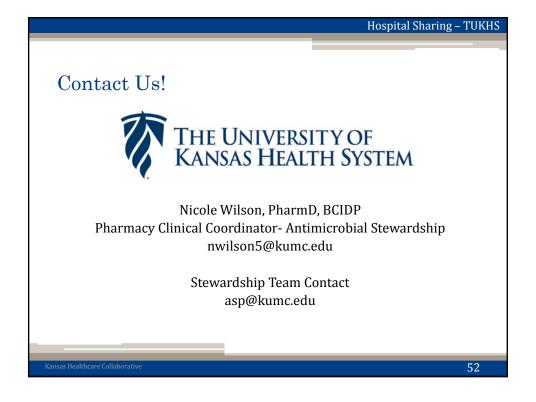


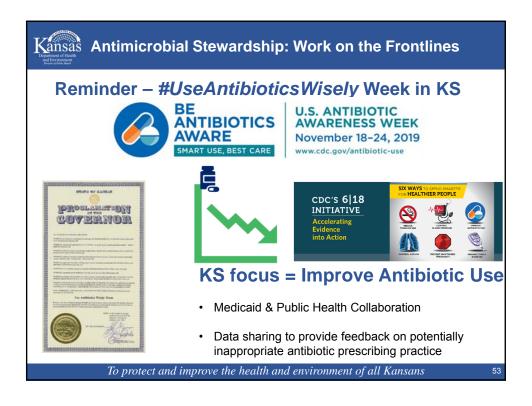


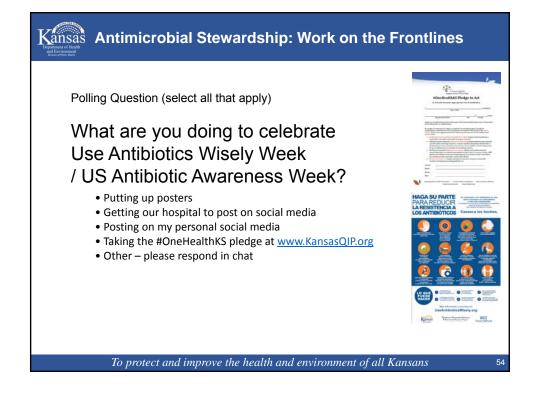




# On the Horizon Increase dedicated time for physician medical director Expand into system level and outpatient antimicrobial stewardship Improve website Resources available to health system and affiliates Promote program visibility NHSN AUR reporting and benchmarking

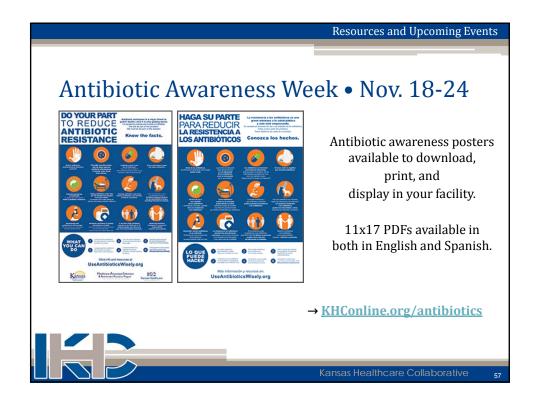


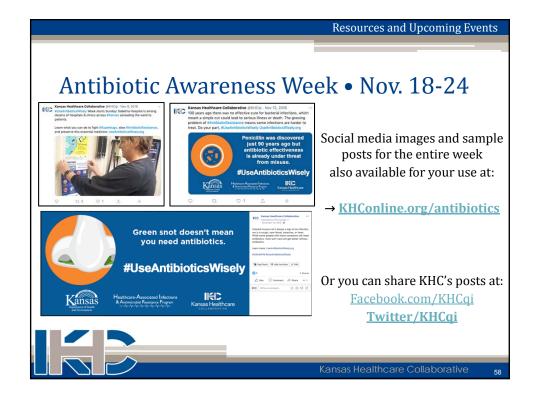


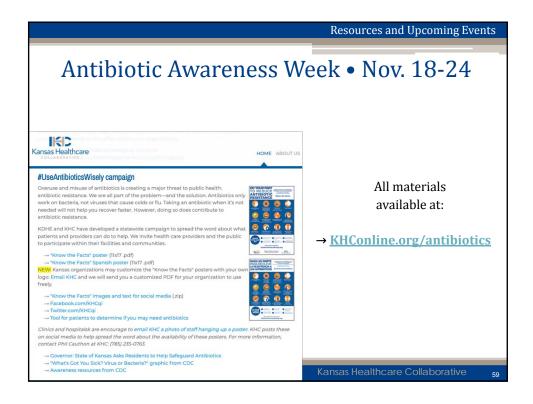
















# Upcoming KHC HIIN Webinars Monthly KHC HIIN Webinars • Dec 18, 2019 | 10:00 to 11:00 am • Register Here: https://khconline.adobeconnect.com/khc-hiin-12-18-19/event/registration.html • Jan 22, 2019 | 10:00 to 11:00 am • Register Here: https://khconline.adobeconnect.com/khc-hiin-01-22-20/event/registration.html KHC Hand Hygiene Collaborative Final Quarterly Virtual Session for Cohort 2 Feb 7, 2020 | 11:00 a.m. - 12:00 p.m. Contact Chuck Duffield (cduffield@khconline.org) for webinar registration link.

## **Upcoming Events**

## Previous HRET & KHC HIIN Webinars

In case you missed any of the KHC HIIN or HRET HIIN events, here are links to access the archives:

- KHC HIIN education archive (chronological order)
- HRET HIIN education archive (organized by topics)

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## **Upcoming Events**

## **Upcoming Events and Webinars**

- December 3, 2019 | 12 to 1:00 p.m.
  - o HRET HIIN: What Matters to You? Session 2 of 4: Register here
- December 10, 2019 | 12 to 1:30 p.m.
  - o KHA De-Escalation Webinar Series, Part 3 of 3
  - o SECURITY: Who is Responsible? (Hint: It's Someone You Know): Register here
- December 12, 2019 | 11 a.m. to 12:00 p.m.
  - o HRET HIIN: QIN-tastic Webinar
  - o Early Identification of Sepsis: A Community Commitment: Register here
- December 17, 2019 | 12 to 1:00 p.m.
  - o HRET HIIN : What Matters to You? Session 3 of 4: Register here
- December 18, 2019 | 10 to 11 a.m.
  - o KHC HIIN KHC Monthly Virtual Meeting
  - Kansas hospitals are encouraged to attend our monthly virtual meetings for HIIN updates, education, and peer-to-peer sharing. <u>Register here</u>
- January 7, 2019 | 12 to 1:00 p.m.
  - o HRET HIIN: What Matters to You? Session 4 of 4: Register here
- January 13, 2019 | 11 a.m. to 12:00 p.m.
  - $\circ \quad \text{HRET HIIN: Performance Improvement Collaborative Session \#3}$
  - Kansas participants, contact <u>Michele Clark</u> for registration links if not already registered.

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## Free Learning Resource for VTE Champions

The National Blood Clot Alliance has a free online learning module for health care professionals on its website at <a href="www.StopTheClot.org">www.StopTheClot.org</a>. The course provides foundational information to improve the ability of health care professionals to assess and treat patients at risk for venous thromboembolism (VTE).

Learn more

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Resources

**Upcoming Events** 



The final session of KHA's three-part **De-escalation Webinar Series** will take place from 12:00 to 1:30 p.m., Dec. 10. This series is designed for all health care employees, volunteers, and others who interact with aggressive individuals in the health care setting.

This webinar series is provided in partnership with KHC and the Hospital Improvement Innovation Network. One connection per facility, please. Contact Melissa Willey at <a href="mailto:mwilley@kha-net.org">mwilley@kha-net.org</a> with any questions.

In case you missed either of the first two sessions, links to the recording are available 24/7 on the KHA website, as well as in our KHC HIIN Education Archive.

- •De-escalation Series Brochure
- Recorded sessions and handouts
- Registration link

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# 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





