

INFECTION PREVENTION BOOT CAMP

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**KENTUCKY
INFECTION
PREVENTION**
Training Center

Understanding the Rise of the Resistance: Multidrug Resistant Organisms

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Clinical Pharmacy Specialist, Infectious Diseases and
Antimicrobial Stewardship





**BEST PRACTICES
BEST OUTCOMES**
www.kypharmstewardship.org

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Objectives

- Define types of antimicrobial resistance
- Discuss important multi-drug resistant organisms including extended spectrum beta-lactamases (ESBL) producing *Enterobacterales*, carbapenem resistant *Enterobacterales* (CRE) and carbapenem-resistant *Acinetobacter* spp. (CRAB)
- Determine MDRO rates from antibiogram data
- Define antibiotic de-escalation
- Describe how antibiotic de-escalation and discontinuation prevents the development of MDROs
- Discuss methods for nurses to support antimicrobial stewardship

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Resistance

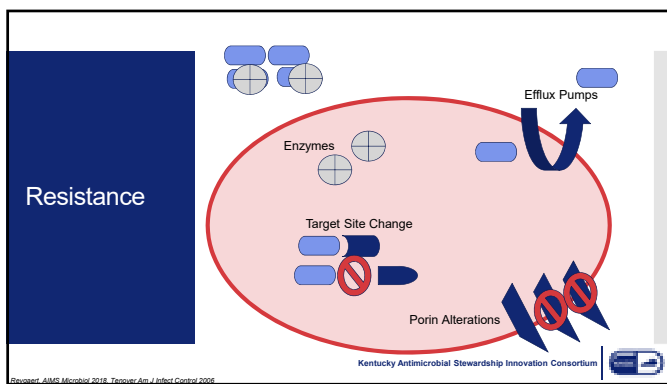
Intrinsic Resistance: an antimicrobial medication's action is completely ineffective against a pathogen; the pathogen is outside of the drugs spectrum of activity

ex. Fluconazole, an antifungal medication, will not treat a urinary tract infection due to *E. coli*, a bacteria

Acquired Resistance: a pathogen has developed resistance to a medication that would typically be effective against it

ex. An *E. coli* acquires a gene which allows it to produce an enzyme that attacks/destroys beta lactam antibiotics (e.g. ESBL)

Request: AAMS Microbiol 2018
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Resistance

Organism	Threat Estimate 2020
ESBL-producing <i>Enterobacterales</i> (ESBLs)	<ul style="list-style-type: none"> • Overall 10% increase • Hospital-onset 32% increase • 97500 cases • 9300 deaths
Carbapenem resistant <i>Enterobacterales</i> (CRE)	<ul style="list-style-type: none"> • Overall stable • Hospital-onset 35% increase • 12700 cases • 1100 deaths
Carbapenem-resistant <i>Acinetobacter</i> (CRAB)	<ul style="list-style-type: none"> • Overall 35% increase • Hospital-onset 78% increase • 7500 cases • 700 deaths

CDC Resistance Report 2022
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Resistance

Extended spectrum beta-lactamase producers (ESBLs)

- Produce enzymes that will hydrolyze and destroy antibiotic before it can reach its target site
- Resistant to:
 - Penicillin antibiotics
 - Cephalosporin antibiotics
- Many rapid diagnostic blood culture platforms can detect the CTX-M gene, which most commonly encodes for ESBL resistance
- Typically rates are estimated based on ceftriaxone resistance

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Reusert. AJMM Microbiol 2018. Tenover Am J Infect Control 2008. Livermore J Antimicrob Chemother 2001

Resistance

Extended spectrum beta-lactamase producers (ESBLs)

Susceptibility	Minimum Inhibitory Concentration (MIC)	Resistance
Ampicillin/Cloxacillin	16-32 ug/ml	Intermediate
Ampicillin	> 32 ug/ml	Resistant
Ampicillin/Sulbactam	< 16-32 ug/ml	Susceptible
Cefazolin	< 16 ug/ml	Susceptible
Cefepime	< 16 ug/ml	Susceptible
Cefotaxime	< 16 ug/ml	Susceptible
Ceftriaxone	< 16 ug/ml	Susceptible
Ciprofloxacin	1 ug/ml	Susceptible
Gentamicin	< 16 ug/ml	Susceptible
Linezolid	< 8-16 ug/ml	Susceptible
Mecopenam	< 16 ug/ml	Susceptible
Meropenem	< 16 ug/ml	Susceptible
Netilmicin	< 16 ug/ml	Susceptible
Piperacillin/Tazobactam	< 16 ug/ml	Susceptible (Dose Dependent)
Susceptible	8 ug/ml	Susceptible
Ticarcillin/Sulbactam	< 16-32 ug/ml	Susceptible

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Resistance

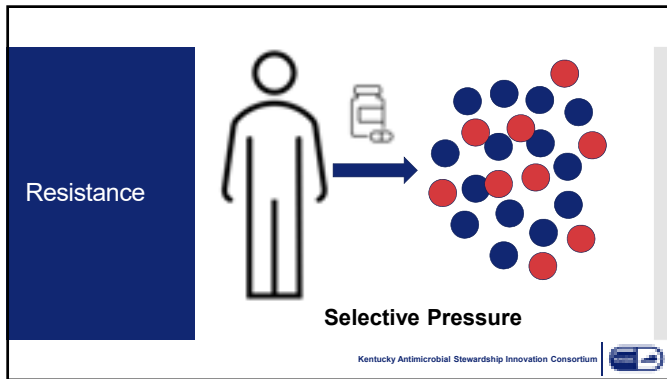
Carbapenem resistant *Enterobacterales* (CRE)

- Produce enzymes that will hydrolyze and destroy antibiotic before it can reach its target site
- Resistant to:
 - Penicillin antibiotics
 - Cephalosporin antibiotics
 - Carbapenem antibiotics
- Several CRE genes exist and different therapies are needed depending on which type of CRE enzyme is present
 - KPC
 - NDM
 - OXA
 - VIM
 - IMP

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Reusert. AJMM Microbiol 2018. Tenover Am J Infect Control 2008. Mc Microbiol Res 2003



Antibiograms

Antibiogram: summary of local antibiotic susceptibility and resistance trends: useful for making empiric antibiotic choices

Organism	Number tested	Oxacillin	Amoxicillin/clavulanate	Cefazolin	Ceftriaxone	Vancomycin
<i>Staphylococcus aureus</i>	102	54	54	54	54	99
<i>Enterococcus faecalis</i>	77	*	98	0	0	99
<i>Streptococcus agalactiae</i>	85	*	100	*	100	100
<i>Escherichia coli</i>	166	*	72	79	89	*
<i>Klebsiella pneumoniae</i>	80	*	80	85	93	*

Illustrative example, do not use for clinical guidance

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Antibiograms

Let's practice! Estimate ESBL *E. coli* rates based on the antibiogram below

Organism	Number tested	Oxacillin	Amoxicillin/clavulanate	Cefazolin	Ceftriaxone	Vancomycin
<i>Staphylococcus aureus</i>	102	54	54	54	54	99
<i>Enterococcus faecalis</i>	77	*	98	0	0	99
<i>Streptococcus agalactiae</i>	85	*	100	*	100	100
<i>Escherichia coli</i>	166	*	72	79	89	*
<i>Klebsiella pneumoniae</i>	80	*	80	85	93	*

Illustrative example, do not use for clinical guidance

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Antibiograms

Let's practice! Estimate ESBL *K. pneumoniae* rates based on the antibiogram below

Organism	Number tested	Oxacillin	Amoxicillin/ clavulanate	Cefazolin	Ceftriaxone	Vancomycin
<i>Staphylococcus aureus</i>	102	54	54	54	54	99
<i>Enterococcus faecalis</i>	77	*	98	0	0	99
<i>Streptococcus agalactiae</i>	85	*	100	*	100	100
<i>Escherichia coli</i>	166	*	72	79	89	*
<i>Klebsiella pneumoniae</i>	80	*	80	85	93	*

Illustrative example, do not use for clinical guidance

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Antimicrobial Stewardship

Antimicrobial Stewardship: the optimal and responsible use of antimicrobials in every setting of society

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Antimicrobial Stewardship

OPTIMAL ANTIBIOTIC CHOICES

- Right Diagnosis
- Right Drug
- Right Dose
- Right Route
- Right Duration

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Antimicrobial Stewardship

Empiric therapy: the antibiotic which is initially chosen for therapy with the intention of treating any possible pathogen, "broad therapy"

Targeted therapy: antibiotic therapy selected based on identified pathogen(s), "narrow therapy"

Over Clin Microbiol Infect 2019; CDC Rx Antibiotics Assets; CDC Core Elements

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Antimicrobial Stewardship


Empiric therapy: the antibiotic which is initially chosen for therapy with the intention of treating any possible pathogen, "broad therapy"

↓ DE-ESCALATION ↓

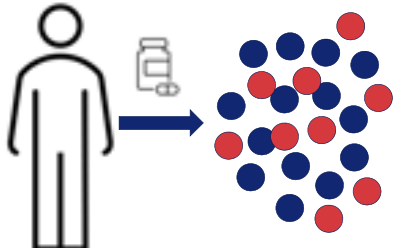
Targeted therapy: antibiotic therapy selected based on identified pathogen(s), "narrow therapy"

Over Clin Microbiol Infect 2019; CDC Rx Antibiotics Assets; CDC Core Elements

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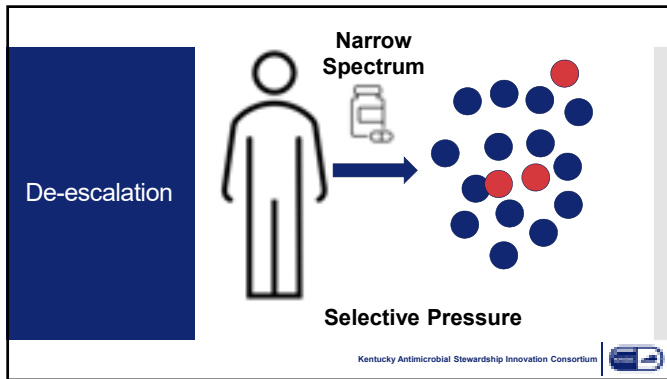
De-escalation

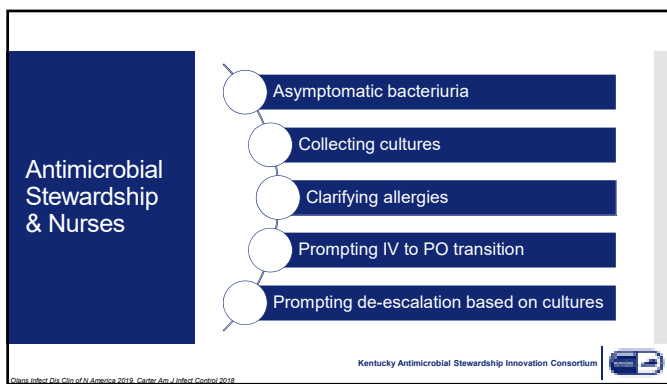


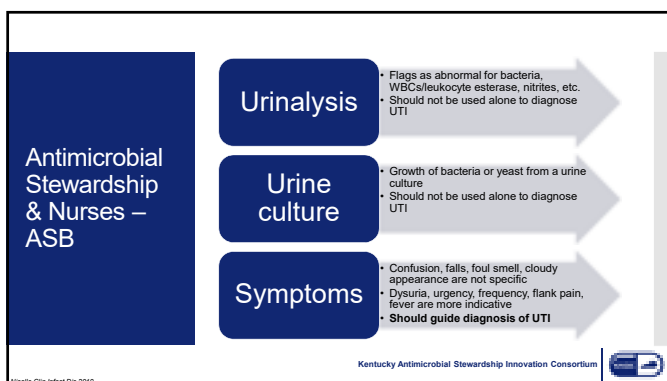
Selective Pressure

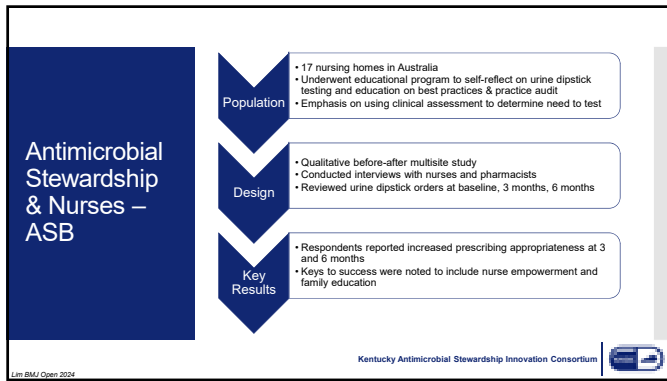
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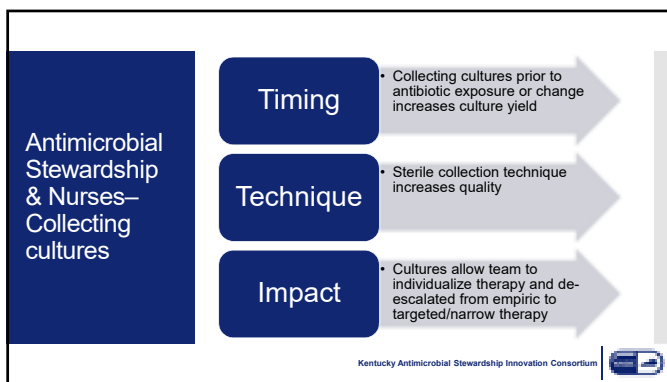


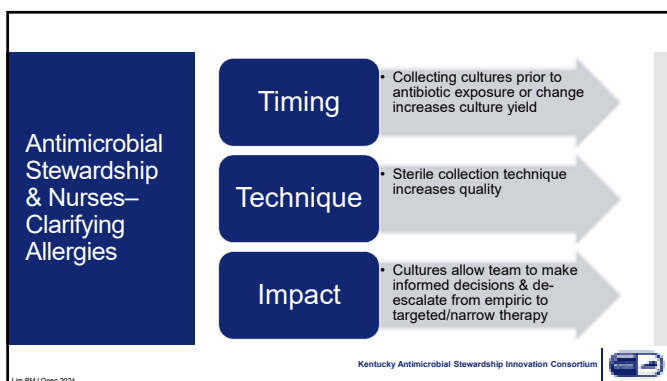


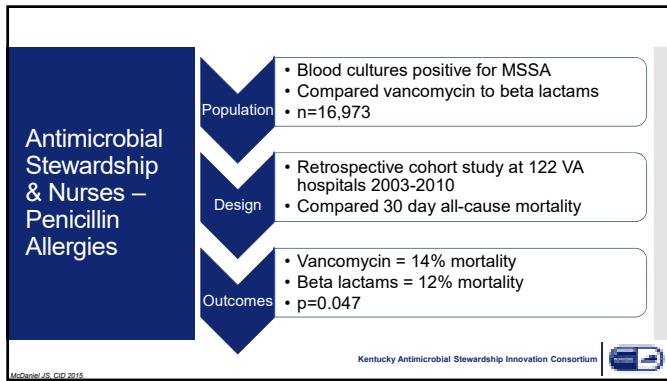


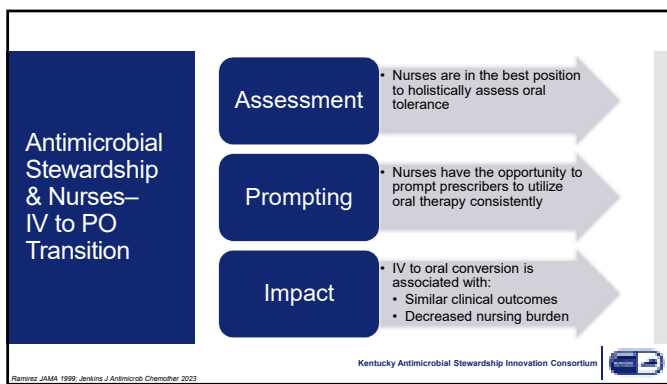


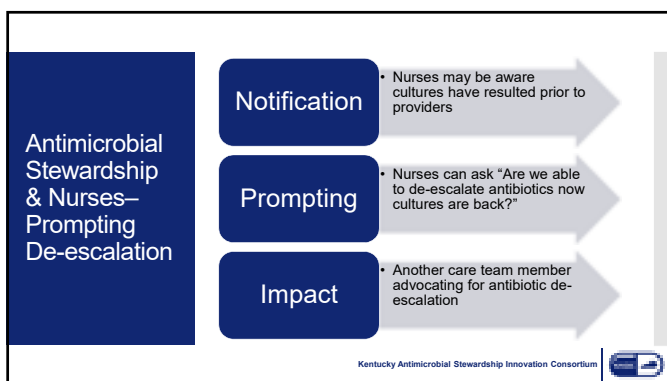












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Questions?




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BEST OUTCOMES**
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www.kymdro.org

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Baptist Health Association of Health Care Environmental Program

Charles Stillings, EMHA, T-CHEST, T-CSCT
System AVP, Environmental Service & Linen Management
April 30th, 2025



AHE Program Overview



Benefits of CHEST: Data Findings

PROGRAM OVERVIEW

AHE is the leading health care environmental services association

AHE is the organization of choice for professionals responsible for establishing and maintaining health care environments that are free of surface contamination and that support safety, service, and efficient and effective operations.

- ✓ Certification Training for Surgical Cleaning Technicians (CSCT)
- ✓ Certified Health Care Environmental Services Technician (CHEST)
- ✓ Certificate in Non-Acute Care Cleaning (CNACC)

EVS FRONTLINE TURNOVER

Baptist Pilot Program

Since 2020, 41 Environmental Service Team Members have received CHEST Certification. Only 1 has left the organization.

Turnover rates dropped an average of **7.5%**

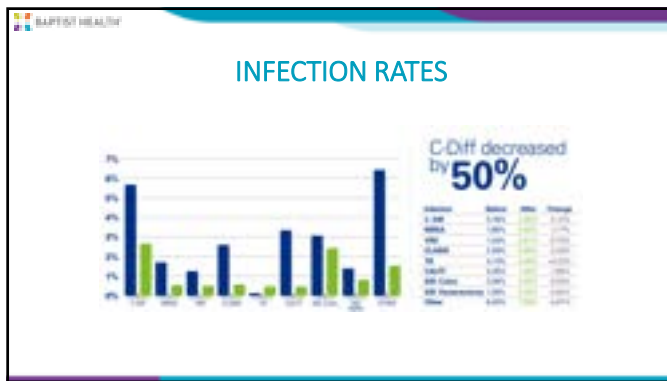
Organization	Turnover Rate
Baptist	22.6%
Other	35.1%

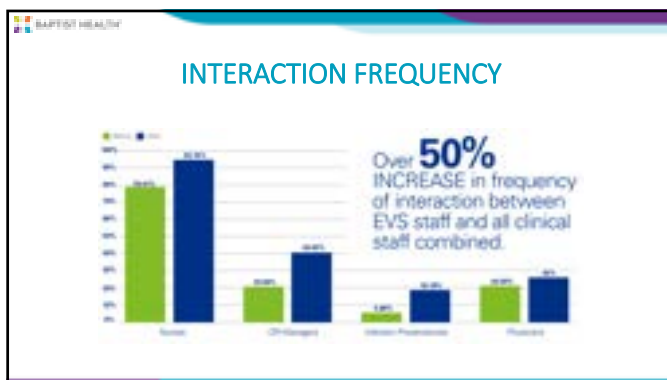
HCAHPS SCORES

10% improvement in HCAHPS Scores

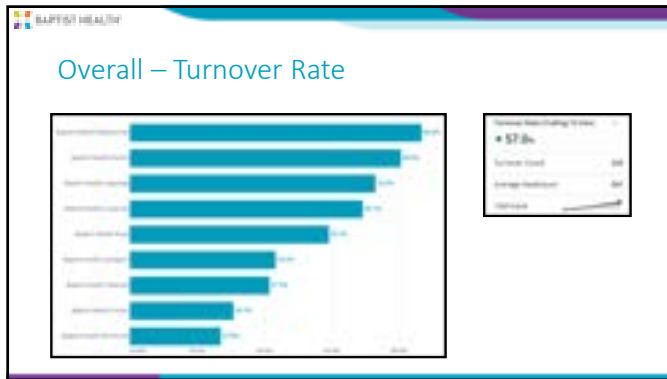
Measuring Important Facts

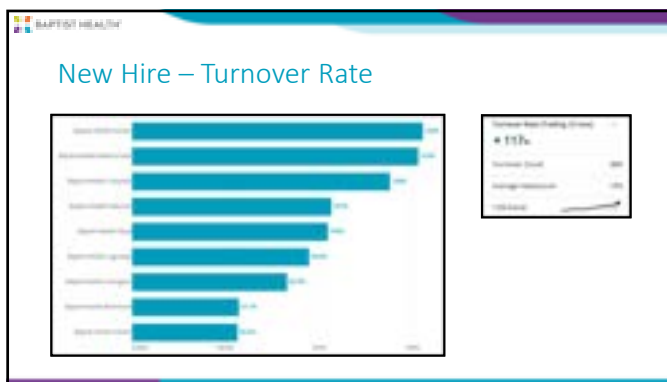
Organization	HCAHPS Score
Baptist	88.4%
Other	86.4%







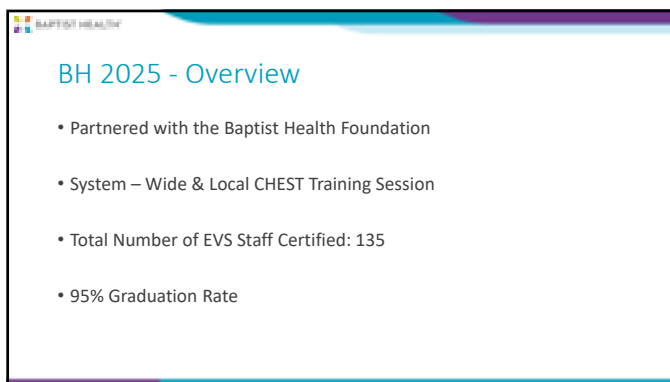


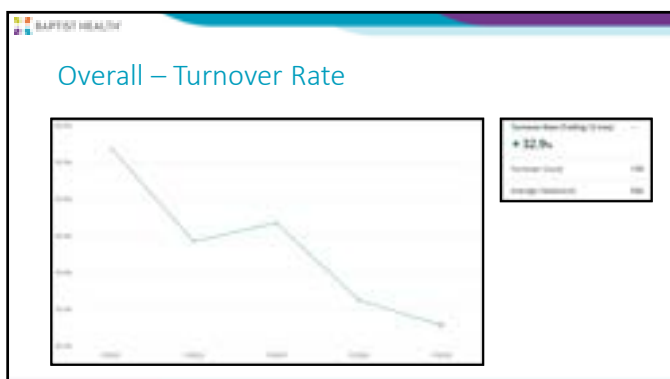


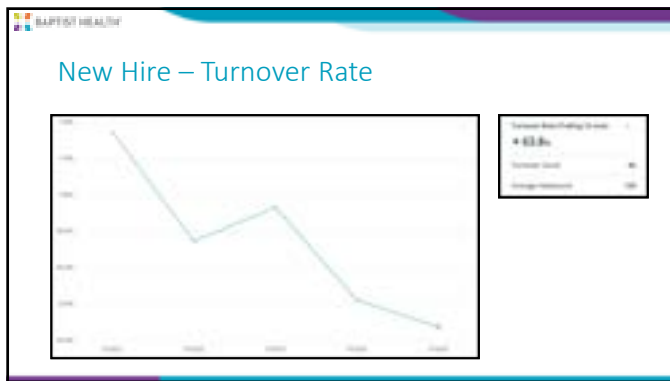
BH 2021 - Overview

- **Baptist Pilot Programs**
 - In 2021, 41 EVS Team Members have received CHEST Certification
- No Formal Cleaning Process – Post Contractor
- No Formal Quality Assessment to Measure Cleanliness
- Feedback: Lack of Nursing Engagement / Confidence
- Cost to Replace: \$5,331,840 / \$16,662 per Person







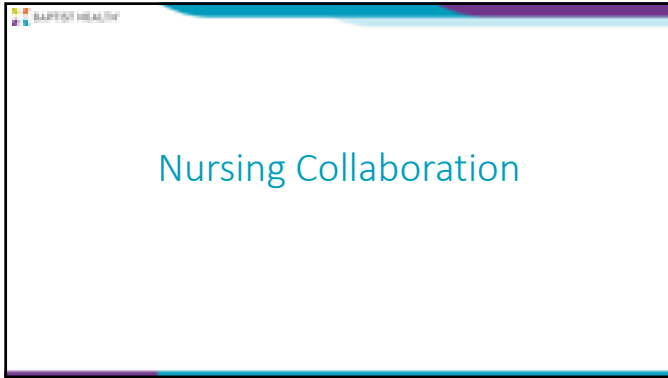




BAPTIST HEALTH

Feedback

- "I feel more confident in my training...."
- "The training has greatly improved at BAPTIST...."
- "Great break from the normal routine..."
- "I understand why we need to clean & disinfect..."

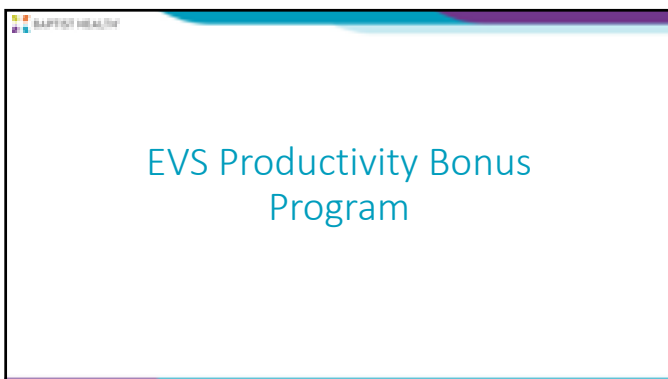


SAFETY HEALTH

FY25 - Cost to Replace

Year	Headcount	Cost Avoidance
2022	84	-\$1,399,608
2023	17	\$283,254
2024	61	-\$1,016,382
2025	17	-\$283,254

- Total Headcount T/O: 145
- Total Cost Avoidance: \$2,415,990



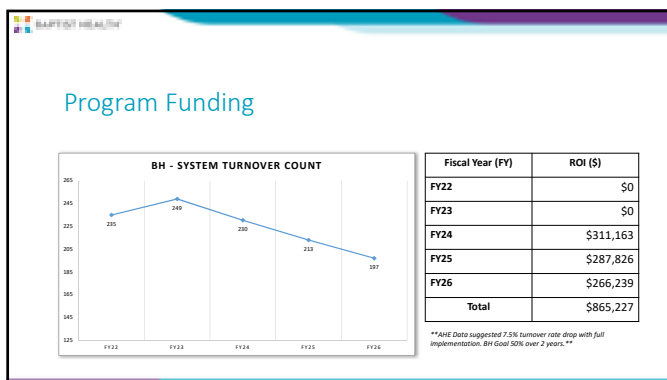
BAPTIST HEALTH

AE
Association for the
Health Care Environment

RECOMMENDATION

- Upon completion of one of the certifications, EVS Team Members will receive an additional \$1.00 per hour.
- Currently, we are limited to \$1.00 per hours, per certificate. We cannot exceed \$1.00.
- EVS Team Member will need to stay up-to-date with all Baptist Health Training
- After EVS Team Member achieve certification, they must maintain good standings with EVS & Baptist Health Policies & Procedures.

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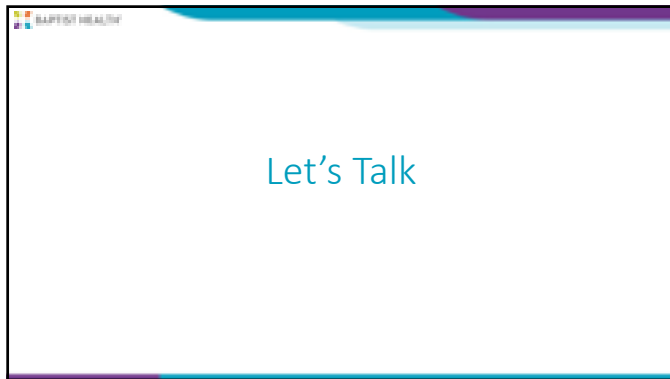


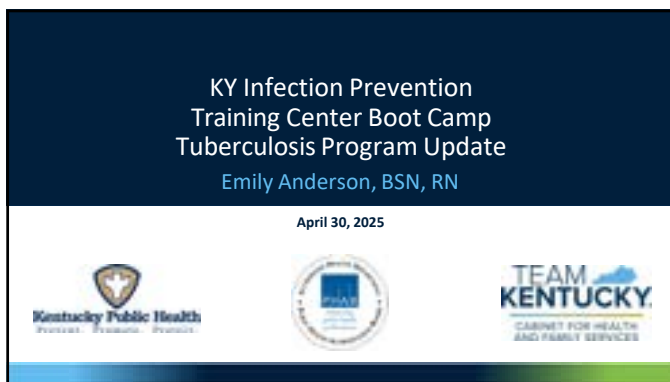
BAPTIST HEALTH

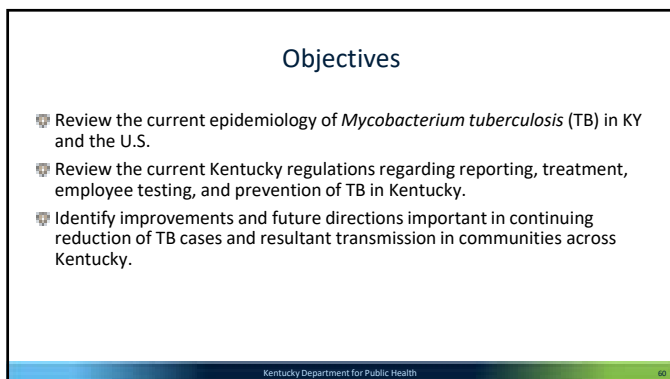
Program Expense

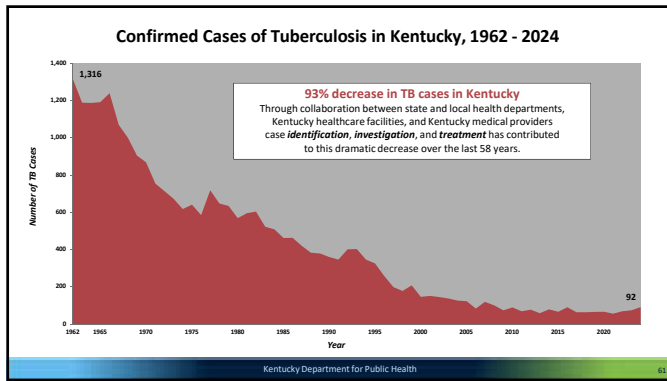
Location(s)	Staff Completion Rate		
	50%	75%	100%
System	\$ 502,090.92	\$ 753,136.38	\$ 1,004,181.84
Louisville	\$ 117,356.04	\$ 176,034.06	\$ 234,712.08
Lexington	\$ 107,845.20	\$ 161,767.80	\$ 215,690.40
Paducah	\$ 48,170.16	\$ 72,255.24	\$ 96,340.32
Madisonville	\$ 36,707.04	\$ 55,060.56	\$ 73,414.08
Hardin	\$ 68,225.40	\$ 102,338.10	\$ 136,450.80
Floyd	\$ 53,170.92	\$ 79,756.38	\$ 106,341.84
Corbin	\$ 52,596.72	\$ 78,895.08	\$ 105,193.44
Richmond	\$ 37,072.44	\$ 55,608.66	\$ 74,144.88
LaGrange	\$ 17,935.92	\$ 26,903.88	\$ 35,871.84

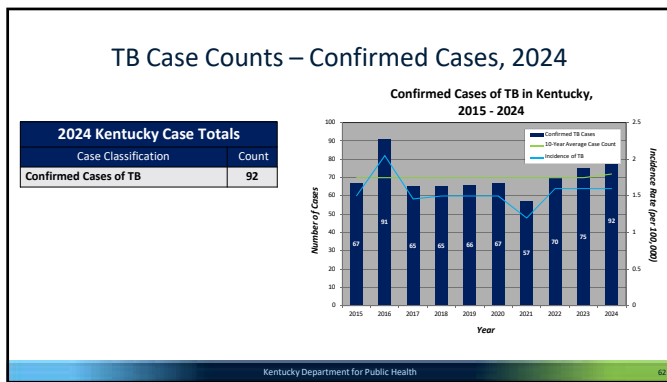
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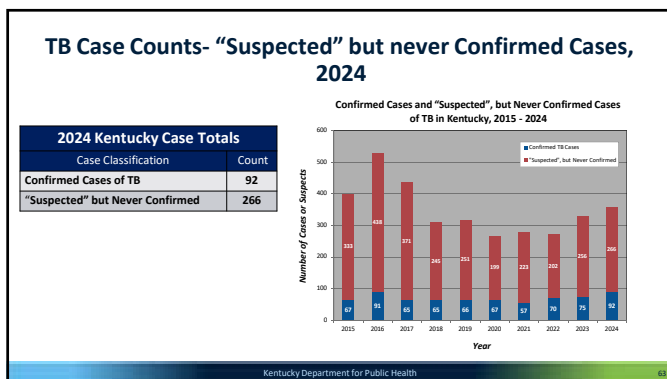




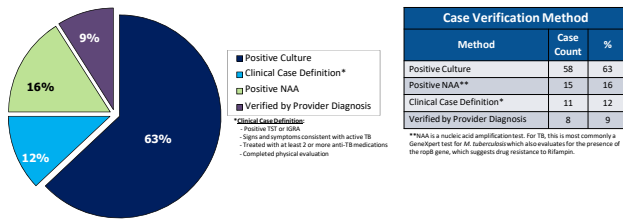








TB Case Data- Case Verification, 2024

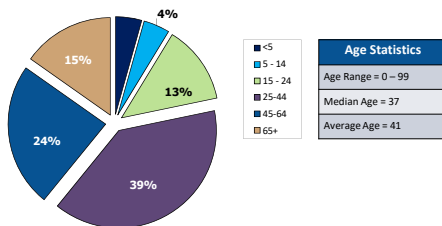


Percentage is based on total case count (n = 75).

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TB Case Data – Age Groups, 2024

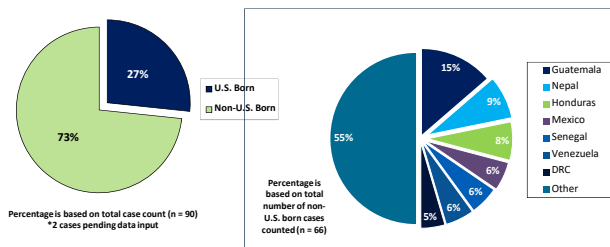


Percentage is based on total cases count (n = 92).

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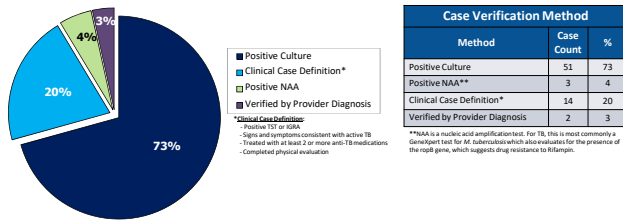
TB Case Data – Non-U.S. Born, 2024



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TB Case Data- Case Verification, 2022



Percentage is based on total case count (n = 70).

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Reporting Regulations

902 KAR 2:020 Reportable Disease Surveillance (RDS)

902 KAR 20: 205 TB Testing in Healthcare Workers (HCW)

<https://www.chfs.ky.gov/agencies/dph/dehp/ldb/Pages/tbregs.aspx>

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Resource: TB Regulation Toolkit



Available on the DPH Website, TB Prevention and Control Webpage
<https://chfs.ky.gov/agencies/dph/dehp/ldb/Pages/tbregs.aspx>

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Reporting Regulations: 902 KAR [2:020](#)
Reportable Disease Surveillance (RDS)

Section 6
*Notifiable Infectious Conditions and Notifiable non-Infectious Conditions:
Tuberculosis*

Report to local or state health department within **1 business day:**

- Examples:
 - Positive Acid Fast Bacilli (AFB) sputum smear
 - TB signs and symptoms
 - Positive Polymerase Chain Reaction (PCR) for TB (**GeneXpert**)
 - **Positive Culture**

Kentucky Department for Public Health 71

Reporting Regulations: 902 KAR [2:020](#)
RDS Continued

Section 2(5)(b)

Notification Standards
*The reporting health professional shall furnish:
clinical, epidemiologic, and laboratory information pertinent to the
disease including sources of specimens submitted for laboratory
testing.*

Kentucky Department for Public Health 72

Reporting Regulations: 902 KAR [2:020](#)
RDS Continued

Section 12

Healthcare-Associated Infections (HAI) Surveillance and Health Insurance Portability and Accountability Act (HIPAA)

CMS authorizes CDC to allow DPH to access

healthcare-associated infection data reported to the National Healthcare Safety Network (NHSN).

DPH shall

- Preserve patient confidentiality
- Issue reports directly to CDC
- Evaluate HAI data for accuracy and completeness

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Reporting Regulations: 902 KAR [2:020](#)

Pharmacy Reporting

Section 15

Tuberculosis

*A pharmacist shall give notice if **two (2) or more** of the following medications used for the initial treatment of active tuberculosis are dispensed to an inpatient in a health facility or to an ambulatory patient in a health facility or a pharmacy: (a) Rifampin, (b) Isoniazid, (c) Pyrazinamide, and (d) Ethambutol*

- Submit EPI-200 form when reporting 2 or more drugs
- Communication with local health department (LHD) of treatment regimen

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**902 KAR 20:205 TB Testing for
Healthcare Workers (HCW)**

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Reporting Regulations: 902 KAR [20:205](#)
TB Testing for Healthcare Workers (HCW)

Section 10(1)

- Report to local or state health department within **1 business day:**
- Employee exposure with TST or BAMT conversion; *OR* identified from a contact investigation after TB exposure
 - Chest X-ray (CXR) suspicious for TB disease
 - Positive sputum smear for AFB

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Reporting Regulations: 902 KAR [20:205](#)
HCW Continued

Section 10(1) continued

- Report to LHD or state within **1 business day:**
- Positive PCR for TB (DNA or RNA)
 - NAA, GeneXpert, HAINS
 - Positive culture for TB
 - Initiation of multi-drug anti-tuberculosis treatment for active TB disease

**Collaborate with local health department prior to initiating facility contact investigations.*

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Reporting Regulations: 902 KAR [20:205](#)
HCW Continued

Section 10(2)

- Report to LHD or state within **5 business days:**
- (a) TST of 10mm or more at time of initial employment
 - (b) TST of 5mm or more at time of initial employment who has a medical risk factor
 - (c) Positive BAMT at time of initial employment

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Frequently Asked Questions

902 KAR 20:205 TB Testing For Healthcare Worker (HCW)



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FAQS: Section 2 – Infection Prevention Control Plan and TB

What is it?

Section 2 Describes

- Infection Control Plan
- New employee testing
- Annual testing plan
- Testing on exposure



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FAQS: Section 2 – Infection Prevention Control Plan and TB

Is a facility risk
assessment
required?


- HCW regulation does **NOT** require a facility risk assessment for TB; however, this **IS** an OSHA requirement
- Cannot declare a healthcare facility at low-risk and only test on hire or exposure
- Must have annual baseline testing for high risk



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Facility Risk Assessment



How to Calculate the Burden of TB for Annual Facility Risk Assessments

Review the following metrics to assess the true burden of TB at your facility and assist with the completion of annual facility risk assessments:

1. Annual TB case rates for your county or district
2. Annual TB case rates for surrounding counties
3. Annual TB case rates for other counties served by your facility (i.e., patient catchment area)
4. Annual suspected cases of TB
5. Five-year average TB incidence
6. Ten-year average TB incidence

Annual Confirmed TB Case Statistics
 2023 (PDF, 275 KB)
 2022 (PDF, 300 KB)


Annual Confirmed and Suspected TB Case Statistics
 2022 (PDF, 300 KB)
 2021 (PDF, 300 KB)

10-Year TB Case Statistics
 2014-2023 (PDF, 1.3 MB)
 2008-2017 and TB Risk Resources

TB Data Webpage - <https://www.dhs.ky.gov/agencies/dph/deho/fdh/Pages/tbdata.aspx>

24

FAQS: Section 2 – Infection Prevention Control Plan and TB




What is included in the Infection Control Plan?

- Identification of employee job series that are at greatest risk for TB exposure.
- Those employees in the plan will be **required to have annual TB testing**. (See annual testing Section 5)

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FAQS: Section 2 – Infection Prevention Control Plan and TB



Is annual testing required?

Maybe, for certain job series-
 HCW regulation does require new hire and annual testing of employees included in Infection Control plan

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FAQS: Section 3 – TB Testing Requirements for Tuberculin Skin Testing (TST)

Is two-step TST testing done for both initial hire and annual testing?

Two-step testing is useful only for the **initial skin testing** of adults who are going to be retested periodically, such as health care workers or nursing home residents.



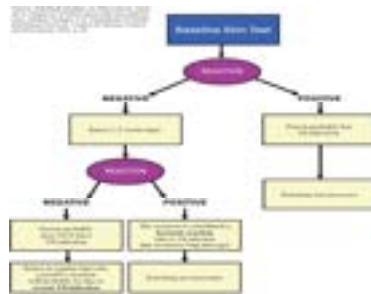
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FAQS: Section 3 – TB Testing Requirements for Tuberculin Skin Testing (TST)

Two-step testing is useful only for the **initial skin testing** of adults who are going to be retested periodically, such as health care workers or nursing home residents. This two-step approach can reduce the likelihood that a boosted reaction to a subsequent TST will be misinterpreted as a recent infection.

<http://www.cdc.gov/tb/publications/factsheets/testing/skintesting.htm>



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FAQS: Section 3(2)(h)

When is a new hire **exempt** from a TST two-step testing?

Documentation of a TST or BAMT result *within three (3) months prior* to initial employment at the facility *and* previous participation in a serial testing program at another medical facility or health care setting.



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FAQS: Section 4(5)(b)3

Can you accept a **TST result** from another facility as part of the initial two-step testing?



The initial TST shall count as the second-step TST if the health care worker aged fourteen (14) years and older provided medical documentation that he or she has had a one-step TST interpreted as negative **within one (1) year** prior to initial testing at the time of initial employment.

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FAQS: Sections 4 – Initial Employment Testing

How far back can I accept a **previous TST or BAMT result**?



Section 4:
Situations vary based on the individual's risk *and* if they have been in serial testing

- Previous test <3 mos = NO new test
- Previous test >3 and <11 mos. = only one TST or BAMT needed
- >11 mos. Two-step TST or one BAMT needed

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FAQS: Sections 4 – Initial Employment Testing

What must be documented for your Employees?



- Past Previous positive TST or Blood Assay for M.TB (BAMT)
- Initial and annual TST or BAMT testing
- **Initial and annual Individual TB risk assessment**

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Individual TB Risk Assessment

https://www.cdc.gov/tb/healthcare-settings/media/pdf/Health_Care_Personnel_Baseline_Individual_TB_Risk_Assessment.pdf

Expanding Diagnostics FAQs – Chest X-Rays

When is a CXR necessary?

- Reactive TST
- Positive BAMT
- Indicated by risk assessment (i.e. recent exposure or travel)
- Exhibits signs and symptoms of TB disease

When NOT to perform a CXR:

- In lieu of TST or BAMT
- Can not detect TB Infection

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FAQs: Sections 5-Annual Testing

Are all healthcare workers required to have annual testing?

- No, not all healthcare workers are required to have annual TB testing (See Section 2 for Infection Control Plan)
- However, all healthcare workers are required to have an **annual** risk assessment

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FAQS: Sections 5-Annual Testing

Which healthcare workers are required to have annual testing?



Annual TB Testing is required for:

- Healthcare workers whose job series are identified in the facility Infection Control Plan as having a high risk for TB exposure (i.e. Bronchoscopy, ED, etc.)
- Any individual who has a newly identified risk (Exposure, travel, etc.)

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FAQS: Section 5 – TB Testing Requirements

How should I determine when to begin staggered testing for each employee?



*Staggered screening of HCWs (e.g., on the anniversary of their employment or on their birthdays) increases opportunities for early recognition of infection-control problems that can lead to conversions in test results for M. tuberculosis infection.

<http://www.cdc.gov/mmwr/pdf/rr/rr5417.pdf> [page 30]

*Facilities may stagger testing at their discretion (i.e. monthly, quarterly, or semi-annually). For your facility to meet this requirement, it may require testing some employees early (i.e. twice within a calendar year). Testing for each individual should not go beyond 12 months from the last test done.

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Contact Investigation (CI) Guidance

- **Must** be performed on all employees who had exposure to TB suspect/case
- **Must** test initially, then **repeat** in 8-10 weeks
- LHD will dictate need for expansion of CI
- Communication with LHD:
 - Mandated reporting of line-list of all contacts, initial and f/u test results
 - CDC reports real-time
 - HIPPA compliant



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Release of Patients from Airborne Infection Isolation (AII)

 When can a patient be released from AII?

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Release from AII <https://www.cdc.gov/mmwr/pdf/rr/rr5412.pdf>

While in hospital for any reason, patients **with pulmonary TB** should remain in airborne infection isolation (AII) until they are:

- 1) Receiving standard multidrug anti-TB therapy
- 2) Have demonstrated clinical improvement
- 3) Have had **three** consecutive AFB-negative smear results of sputum specimens collected 8–24 hours apart with at least one being an early morning specimen.

Please check with the local health department prior to releasing patients to home isolation!

<https://www.cdc.gov/mmwr/pdf/rr/rr5412.pdf>

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Releasing from AII

Hospitalized patients returning to a congregate setting (e.g., a homeless shelter or detention facility) should have **three** consecutive AFB-negative smear results of sputum specimens collected >8-24 hours apart before being considered noninfectious.

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Release from All Cont.

Remember:

Two negative PCR GeneXpert results are accepted in lieu of three AFB-negative sputum results.

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Initiating Medications

- **Before** initiating any TB treatment...
- Contact the local health department to report suspect
- Obtain sputum samples
- Assure positive PCR results
 - Rule out medication resistance



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TB Awareness

New Quarterly TB Newsletter "The DOT"

- Targeted to all TB and Infection Control staff at local health departments, hospital and long-term care facilities

New KY TB Program Office Hours

- Coordinated with the Southeastern National TB Center
- Target audience: all TB partners (Physicians, Nurses, local health departments, and Infection Control personnel)
- Updates include: TB Epidemiology, regulations, protocols, emerging treatments, and TB case studies.

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Summary

- ☛ Always **ISOLATE** patient and **COLLECT 3 SPUTUM** before giving anti-tuberculosis medications ***"Get the Bugs before You Give the Drugs"***
- ☛ Assure laboratories are sending an isolate or direct specimen to the state lab (Division of Laboratory Services)
- ☛ Assure in-house pharmacists are compliant with reporting when dispensing two (2) or more anti-tuberculosis medications
- ☛ Report any suspected or confirmed active TB case to the local health department within one (1) business day
- ☛ Comply with annual TB testing and screening requirements
- ☛ Avoid unnecessary chest x-rays

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Summary Continued

- ☛ Review and/or update Facility Infection Control Plan to assure identification for annual TB testing of healthcare workers with the highest risk for TB exposure
- ☛ For patients who have symptoms or signs of active TB disease, all tests and examinations for TB diagnosis should be pursued without delay, regardless of any additional vaccinations (i.e. COVID, MPX, etc.)

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DON'T FORGET WE ARE HERE TO HELP!



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Supply shortages, OH MY!

Julia Frith DNP, RN, CIC
 Lead, Kentucky Infection Prevention Training Center
 Manager, Clinical Research Development and Support
 Norton Infectious Disease Institute



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 Training Center

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Objectives

- List potential causes of a supply chain interruption
- Identify previous instances of supply shortages in healthcare
- Describe actions an IP can take to mitigate a supply shortage



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What is the supply chain

- Complex global system
- Involve multiple groups
 - Production
 - Technology
 - Policies
 - People
- Typically designed for cost and efficiency



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Who are the stakeholders in the supply chain

- Raw material suppliers
- Manufacturers
- Distributors and GPO
- Health System and providers
- Patients

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What is a supply shortage

- Not having what you need when you need it
- Not a new problem



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What can disrupt the supply chain

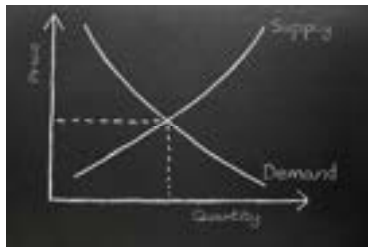
- Natural disaster
- Public health emergency
- Contamination in product
- Social disruption



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Causes of shortages



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National Academies of Sciences, Engineering, and Medicine. 2022. Building resilience into the nation's medical product supply chain. Washington, DC: The National Academies Press. <https://doi.org/10.17226/7840>


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Vulnerability of the medical product supply chain: the wake-up call of COVID-19


Miller FA, Young SB, Dobrow M, et al. BMJ Qual Saf 2021;30:331–335.







Vulnerability of the medical product supply chain: the wake-up call of COVID-19

Miller FA, Young SB, Dobrow M, et al. BMJ Qual Saf 2021;30:331–335.





Saline shortage



Who is impacted by supply shortages

- Patients
- Health Systems
- Manufacturers and suppliers



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[illegible]

"Medical product shortages in the United States: Demographic and geographic factors and impacts." Beleteche, Trini, and Allison Kolbe. (2024).

impacts." Beleche, Trini, and Allison Kolbe. (2024).



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"Medical product shortages in the United States: Demographic and geographic factors and impacts." Beleche, Trini, and Allison Kolbe. (2024).

impacts." Beleche, Trini, and Allison Kolbe. (2024).



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What is a resilient supply chain

- By definition, a resilient supply chain should have the capacity to reliably supply medical products under normal conditions as well as protect public health and safety in emergencies

<https://www.nationalacademies.org/handbook/2020/1/unraveling-why-oncology-drug-and-medical-supply-shortages-keep-happening>

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What is being done to address the problem

- Notifying FDA of a Permanent Discontinuance or Interruption in Manufacturing of a Device Under Section 506J of the FD&C Act
 - *"Requires manufacturers to submit a notification at least six months in advance of a permanent discontinuance in manufacturing of a device or an interruption in manufacturing of a device that is likely to lead to a meaningful disruption in supply of the device in the United States. If that timeframe is not possible, section 506J(b)(2) requires that notification be done "as soon as practicable."*

<https://www.fda.gov/media/155245/download>

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When do manufacturers notify


- Permanent discontinuance
- Interruptions in manufacturing
- Meaningful disruption
- During or in advance of a public health emergency

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506J Device List





<https://www.kia.gov/medical-devices/medical-device-supply-chain-and-shortages/506j-device-list>

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How do we know there is a shortage


- Value Analysis/Supply Chain
- Manufacturer notification






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What do we do when a shortage occurs



- Communication
 - Here is the new process
 - This is why processes changing
- FMEA
 - What can go wrong with the change and how will you mitigate the risk



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FMEA

- Failure
 - What could go wrong
- Modes
 - How could it go wrong
- Effects
 - What happens if it goes wrong
- Analysis
 - Severity, likelihood of occurrence, likelihood of detection prior to reaching a patient
- Actions
- Evaluation of actions



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What do we do when a shortage occurs

- Understanding current use of product
 - Par level
 - Allocation
 - Shortage
- Conservation and mitigation strategies
 - Changing process
 - Using beyond expiration date
 - Central location within the facility



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What do we do when a shortage occurs

- What are your policies
 - When do you transition to an SWI
 - When do you change policy for new process
- How do you monitor for issues



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Issues

- How do you know who uses the product
- How do you know how the product is used
- How do you educate people on the new process
- Infection prevention may not be included in the conversation
- How do you get people to go back to the original process



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Scenario

- Sterile water is on backorder
- The backorder is intended to last at least 6 months
- Your facility has on hand 30 days worth of sterile water
- Your facility will be allocated 30% of normal par
- Par is typically 1000 30mL bottles of sterile water per month



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Scenario

- Blood culture bottles are on backorder
- It is unclear how long the backorder will last
- Your facility has on hand 30 days worth of blood culture bottles available
- Your facility will receive 600 blood culture bottles in two weeks after that time it is unclear how much of your order you will receive
- Your facility collects rough 500 blood cultures per month



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SMARTER,
FASTER, BETTER

IMPROVING PROCESSES
AND PERFORMANCE

Rochelle Beard, MSN, RN, CIC, CPHQ


the partner in infection prevention

OBJECTIVES

- Distinguish between process and performance improvement
- Explain DMAIC and PDCA/PDSA methodology
- Apply a performance improvement tool to an initiative at your facility

WHY?

- Apply evidence-based techniques and practices to ensure quality and safety in your healthcare organizations
- Align with the organization's mission, vision, values, goals, and objectives
- Safety!

WHAT'S THE DIFFERENCE?

Process Improvement

- Workflows (processes) and systems
- Streamlining
- Efficiency/effectiveness
- Reduce waste
- Improve quality and productivity
- Lean, Six Sigma

Performance Improvement

- Individual skills, motivation, overall performance
- Increased productivity and quality of work
- Enhance organizational effectiveness and outcomes
- PIPs, coaching

HISTORY

- 1863 Florence Nightingale
- 1913-1917 Dr. Codman & the American College of Surgeons



Image generated by AI using custom prompt via ChatGPT (OpenAI), not based on real events or persons.

VOCAB

1. Kaizen
2. Kanban
3. Gemba



management
defining,
and improving
that deliver
work
is improvement
pace

PI Methods/Approaches

LEAN

- Reduce waste and add value to the customer
 - defects, overproduction, waiting, nonutilized talent/resources, transportation, inventory, motion, and extra processing
- 5 principles
 - Customer value, ID value-added steps, make steps flow, pull system based on demand, flow and pull to remove non-value steps and start over until perfect

WASTE HUNT!

- Read the scenario
- List as many types of waste (from Lean's 8) as you can find
 - defects, overproduction, waiting, nonutilized talent/resources, transportation, inventory, motion, and extra processing

WASTE HUNT!

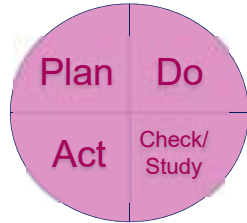
🏠 Scenario: "The Case of the Contaminated Contact Precautions"

It's 10:15 AM on the med-surg floor. A patient on contact precautions needs wound care. The nurse goes to get PPE but finds the isolation cart is empty—again. She walks to the supply room at the end of the hall, only to realize they're out of gowns. She radios the tech, who spends 5 minutes locating more. The nurse finally gowns up, only to be interrupted by a provider who enters without PPE, claiming "I'm just popping in real quick."

Later, the nurse discovers the wound care documentation is missing because the chart was left on the counter and got thrown out during terminal cleaning.

PLAN, DO, CHECK, ACT

- PDCA or PDSA

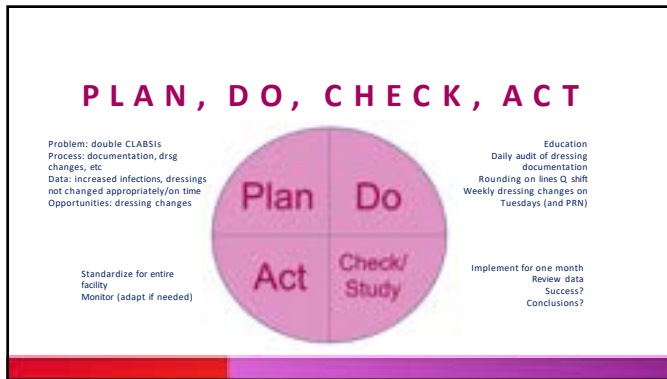


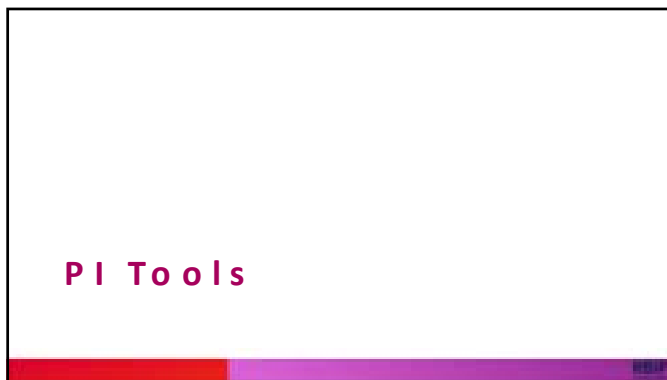
SMART GOAL

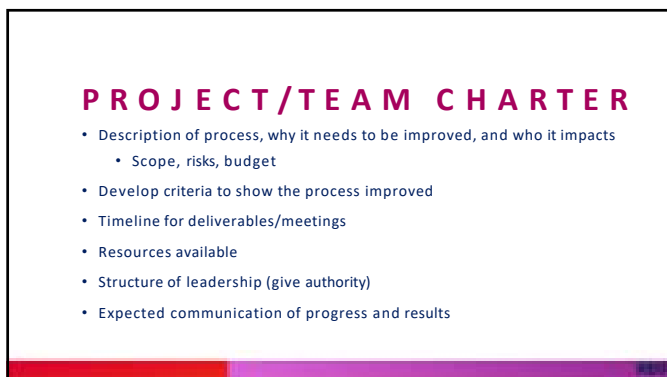
- Specific
- Measurable
- Achievable
- Relevant
- Time-bound

SMART GOAL

- Your facility had 6 CLABSIs in the last quarter, double the usual rate. Audits show inconsistent catheter maintenance documentation.
- Specific, Measurable, Achievable, Relevant, Time-bound
- The Hem-Onc unit will reduce CLABSIs by 25% by the end of Q4 2025 by implementing scheduled dressing changes and completing 95% documentation compliance audits weekly.








Meyer's Birthday Party		
Item	Quantity	Notes
Chocolate Cake	1	For the birthday boy
Apples	10	For the birthday boy
Bananas	10	For the birthday boy
Oranges	10	For the birthday boy
Grapes	10	For the birthday boy
Strawberries	10	For the birthday boy
Blueberries	10	For the birthday boy
Raspberries	10	For the birthday boy
Blackberries	10	For the birthday boy
Cherries	10	For the birthday boy
Peaches	10	For the birthday boy
Plums	10	For the birthday boy
Apricots	10	For the birthday boy
Persimmons	10	For the birthday boy
Guavas	10	For the birthday boy
Papayas	10	For the birthday boy
Mangoes	10	For the birthday boy
Pineapples	10	For the birthday boy
Watermelons	10	For the birthday boy
Cantaloupes	10	For the birthday boy
Honeydews	10	For the birthday boy
Cherries	10	For the birthday boy
Peaches	10	For the birthday boy
Plums	10	For the birthday boy
Apricots	10	For the birthday boy
Persimmons	10	For the birthday boy
Guavas	10	For the birthday boy
Papayas	10	For the birthday boy
Mangoes	10	For the birthday boy
Pineapples	10	For the birthday boy
Watermelons	10	For the birthday boy
Cantaloupes	10	For the birthday boy
Honeydews	10	For the birthday boy

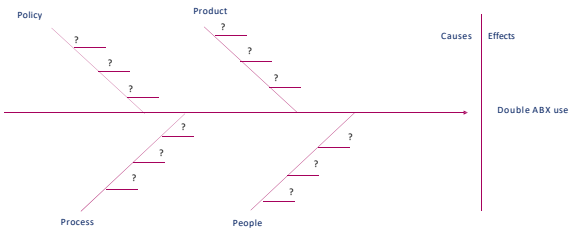


BRAINSTORM

- Free-flowing generation of ideas
- No censoring or discussion (later)
- No limits on ideas



ISHIKAWA (FISHBONE)



CHECKLISTS

- | | |
|---------------------|---|
| 1. Ordered List | A. Includes meaningful info, used as guide or reference |
| 2. Itemized List | B. Branch of another ordered list |
| 3. Sublist | C. Any list with a space for a check mark, initials, or additional info |
| 4. Prioritized List | D. Numbered, tasks need to go in order, ensures correct and complete processing |
| 5. General List | E. Any list ordered with a priority scheme |

- ☒ Distinguish between process and performance improvement
- ☒ Explain DMAIC and PDCA/PSA methodology
- ☒ History of PI
- ☒ Vocabulary
- ☒ Lean
- ☒ Six Sigma
- ☒ DMAIC
- ☒ PDCA
- ☒ Goals
- ☒ Project Charter
- ☒ Brainstorm
- ☐ Apply a performance improvement tool to an initiative at your facility

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CONTACT



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<https://www.youtube.com/@RBeardIP>

Addressing Social Determinants of Health to Reduce Infection Risks

Kirsten Trudeau MSN, APRN, FNP-C
Advanced Practice Provider-Research Nurse Specialist
Norton Infectious Diseases Institute



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Objectives

- Define Social Determinants of Health (SDOH)
- Analyze the relationship between specific SDOH factors and increased susceptibility to infectious diseases.
- Evaluate different SDOH screening tools highlighting challenges with lack of standardization
- Apply best practices for integrating SDOH screening into infection prevention efforts
- Utilize SDOH screening in case-based infection scenarios

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What are Social Determinants of Health (SDOH)?

- Factors which affect health outcomes, which are not medically related
- Conditions which people are born, live, grow—as such shaping their daily life
- Forces and systems include:
 - Economics
 - Politics
 - Societal norms
 - Policies
- All of these can influence health outcomes (for better or worse)

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When did we start linking SDOH to health outcomes?

- As early as the 19th century discussion
- 1967-UK Whitehall
- 1985-1988-further Whitehall II study
- 1985-Task Force on Black and Minority Health released first report on minority health in America
- 1995-Sauvaget et al launched a study in India which found social-economic disparity led to shorter life expectancy
- 1999-Book released "Social Determinants of Health" by Michael Marmot and Richard Wilkinson
- 2007-WHO released a report from the WHO Global Commission of SDOH (CSDH)
- 2010-WHO released "Conceptual Framework for Action on the Social Determinants of Health"
- 2022-CMS added "Advancing Health Equity" to its objectives for its 2030 vision

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Healthy People 2030
SDOH
Overview

(Healthy People 2030, 2024)
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Health
Related
Social Needs
(HRSN)

- **Health Related Social Needs (HRSN):** per the department of Health and Human Services (HHS) *"Health-related social needs are social and economic needs that individuals experience that affect their ability to maintain their health and well-being. These include needs such as employment, affordable and stable housing, healthy food, personal safety, transportation, and affordable utilities"*

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Healthy
People 2030
Current Work

- Healthy People 2030 Initiative
- Social Determinants of Health Workgroup
 - Experts in SDOH factors
 - Health equity
 - Health disparities
 - Economics
 - Populations which are vulnerable
 - Eight objectives defined
 - Tracking objective status

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Healthy People 2030 SDOH Workgroup Objectives

(Healthy People 2030, 2024b)

Healthy People 2030 Objective Measure Example

(Healthy People 2030, 2024b)

What does the data show?

- 7.9% of households without broadband internet (2023)
- Crowding in 3.5% of occupied housing (2023)
- 40.6 million make <75k, and spend >30% of that income on housing (2021)
- Of adults >25 years old, 10.2% did not have a high school diploma of equivalent (2023)
- Persons identifying as racial and ethnic minorities made up 42.9% of the population (2023)
- 7.8 million single-parent households
- September 2024 unemployment rate 4.1 %
- 65 million living 150% below the poverty level (2023)

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SDOH related to Infectious Disease

- Personal health literacy
- Employment
- Housing instability/Housing quality
- Language
- Medical insurance
- Transportation
- Primary Care Provider
- Environmental Conditions
- Incarceration



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As the IP, you might be thinking... Where do I fit in?



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Historical example of TB Decline in Western Societies

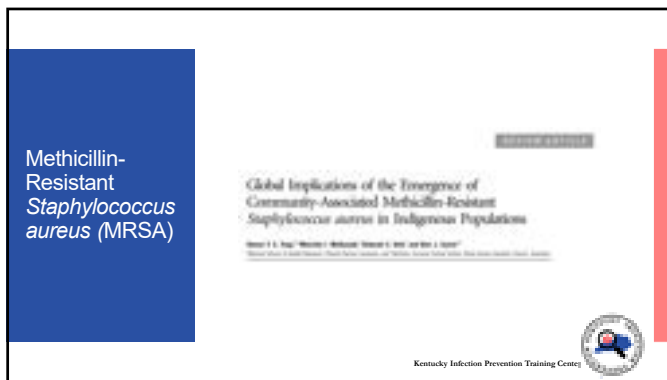
- Late 19th to early 20th century
- Western decline of Tuberculosis *before* medical therapies
- Why?
 - Housing improvements
 - Less crowding
 - Changes to improve nutrition and living conditions
 - Process of pasteurization



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RSV



Methicillin-Resistant
Staphylococcus aureus (MRSA)

COVID-19



HIV

Tackling the social and structural drivers of HIV in Canada

Hearts 90/90 Series 2: Moving from 90/90

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What are we doing about it?

- The *Ideal* Process
 - Screen
 - Refer
 - Follow-up
- The *Reality*
 - Breaks in the *ideal* process
 - Difficulties implementing screening tools
 - Facilitators
 - Barriers
 - Systematic uptake of implementing these processes
 - Referrals
 - Might be missed
 - Maybe the patient refuses
 - What about bandwidth of social services

Screening for SDOH

- What tool should you be using to screen?
- Who asks the questions?
- Who answers the questions?
- Is the process standardized across your organization?
- How do you decrease stigma and discomfort to ensure answer are true and accurate?



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[illegible]

The Accountable Health Communities Health-Related Social Needs Screening Tool

(CMS, 2023a)

- CMS**
1. Which of the following is a key goal of the Accountable Health Communities (AHC) model?
- Improve patient safety
 - Improve patient experience
 - Improve patient outcomes
 - Improve patient engagement
- Transparency**
2. Which of the following is a key goal of the AHC model?
- Improve patient safety
 - Improve patient experience
 - Improve patient outcomes
 - Improve patient engagement
- Community**
3. Which of the following is a key goal of the AHC model?
- Improve patient safety
 - Improve patient experience
 - Improve patient outcomes
 - Improve patient engagement
- Quality**
4. Which of the following is a key goal of the AHC model?
- Improve patient safety
 - Improve patient experience
 - Improve patient outcomes
 - Improve patient engagement



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The Accountable Health Communities Health-Related Social Needs Screening Tool

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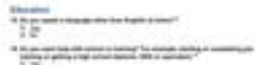
The Accountable Health Communities Health-Related Social Needs Screening Tool

(CMS, 2023a)

- CMS**
- AHC Model Screening Tool Supplemental Questions**
- Transparency**
1. Which of the following is a key goal of the AHC model?
- Improve patient safety
 - Improve patient experience
 - Improve patient outcomes
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- Community**
2. Which of the following is a key goal of the AHC model?
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3. Which of the following is a key goal of the AHC model?
- Improve patient safety
 - Improve patient experience
 - Improve patient outcomes
 - Improve patient engagement



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What are the implications of the findings for the development of a more effective and efficient system of health care delivery? What are the implications for the development of a more effective and efficient system of health care delivery?

18. The average time taken to solve all 100 problems was approximately 4.55 minutes. What was the standard deviation?

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[illegible]

The Accountable Health Communities Health-Related Social Needs Screening Tool



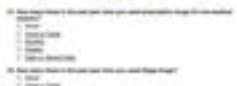
© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 395–402

10. Which of the following is NOT part of the process that can cause a mutation in a cell?
- Exposure to ionizing radiation
 - Exposure to chemical mutagens
 - Exposure to ultraviolet light
 - Exposure to gamma rays
 - Exposure to X-rays

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[illegible]

The Accountable Health Communities Health-Related Social Needs Screening Tool




Source: *Author's calculations*.

10. How does a cell transfer from G₀ into the cell cycle and back to G₀ after exiting?
- a. Other external or internal signals?
- Yes, a lot
 - Yes, a little
 - Yes, a lot, but only in some cells
 - Yes, a little, but only in some cells
- b. Switching along chromatin is important?
- Yes, a lot
 - Yes, a little
 - Yes, a lot, but only in some cells
 - Yes, a little, but only in some cells
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The Accountable Health Communities Health-Related Social Needs Screening Tool




(CMS, 2023a)



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What are the requirements?

- According to CMS, not standard practice or required yet across the U.S.
- Only standard practice in the Accountable Health Communities (AHC) at this time




(CMS, 2024b)



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Concerns and barriers when screen SDOH

- Fear of repercussions
- Stigma
- Fear of involvement of Child Protective Services (CPS)
- Less likely for mothers to seek care (both for self or children)



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Scenario

- Lao, a 22-year-old woman, arrives at a clinic with symptoms of painful urination. She does not have transportation, so she walked to her appointment. She is not proficient in English, and her primary language is Swahili.

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Pathway 1- Patient **NOT** screened for SDOH

No interpreter is available. She does her best to explain her symptoms, but the hurried provider offers minimal communication. She is asked to give a urine sample but is not given instructions for a clean-catch, which may affect test accuracy. The provider prescribes antibiotics and tells her they will call with results. When they later call, her urine culture shows that the prescribed antibiotic will not effectively treat the infection, so they send a new prescription to her pharmacy. Lao does not fully understand the call and, not wanting to take up time, does not ask for clarification. She also does not have transportation to pick up the new medication. Three days later, she develops a high fever and severe pain, leading to hospitalization for pyelonephritis (kidney infection).

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Pathway 2- Patient screened for SDOH

- Lao arrives at the clinic, and a medical interpreter is arranged through a video service. The provider takes time to listen to her symptoms and explain the importance of a proper urine sample, to ensure accurate test results. Recognizing her transportation challenges, the clinic assists by arranging a pharmacy delivery service for her antibiotic for a urinary tract infection. The clinic follows-up with a call with urine culture results, and the interpreter relays information and the new prescription instructions in Swahili, ensuring Lao understands the need for the new medication. The pharmacy delivery service delivers the new prescription, she takes it as prescribed, and recovers without complications.

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Scenario Summary of SDOH

- Access to Transportation
- Language and Health Literacy
- Healthcare Access and Quality
- Socioeconomic Factors
- Cultural and Systemic Barriers

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Resources

- [Social Determinants of Health - Healthy People 2030 | odphp.health.gov](https://odphp.health.gov)
- [Assess | Pathways to Population Health Equity](#)
- [The Impact of Health Disparities and Inequities on Healthcare-Associated Infections: A Call to Action](#)
- [The AHC Health-Related Social Needs Screening Tool](#)
- [A Guide to Using the Accountable Health Communities Health-Related Social Needs Screening Tool: Promising Practices and Key Insights](#)

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Key Takeaways

- SDOH impact patient outcomes in many ways, including infection risks
- Lack of standardization for screening is challenging when screening for SDOH
- Be proactive and assess for the risks before there is a problem
- Take time to listen, understand, and build trust

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**Strengthening Kentucky's Defense
Against MDROs:
Enhancing Our Reporting Process**

Michael J. Curran MPH, BSN, RN, CIC, NHDP-BC
Infection Control Nurse/MDRO Prevention Lead, HAI/AR Prevention
Program
Kentucky Department for Public Health

April 30, 2025

Objectives

- ☛ Participants will be able to identify how proposed improvements can streamline your reporting workflows, reduce administrative burden, and provide you with more timely and relevant feedback on multidrug-resistant organism (MDRO) trends in your facilities and the wider region
- ☛ Participants will be able to describe how enhanced reporting will equip us with more accurate and timely data for proactive surveillance, outbreak response, and the development of targeted prevention strategies to protect our communities
- ☛ Attendees will collaborate on shaping a practical and sustainable MDRO reporting system for Kentucky by sharing your insights, experiences, and concerns

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- ☛ <https://kymdro.org/kasic/>
- ☛ <https://apps.legislature.ky.gov/law/kar/titles/902/002/020/>
- ☛ <https://www.cdc.gov/healthcare-associated-infections/php/preventing-mdros/index.html>


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Slide 1


Strengthening Kentucky's Defense Against MDROs: Enhancing Our Reporting Process

Michael J. Curran MPH, BSN, RN, CIC, NHDP-BC
Infection Control Nurse/MDRO Prevention Lead, HAI/AR Prevention Program
Kentucky Department for Public Health


April 30, 2025



Kentucky Public Health
Prevent. Promote. Protect.



AMERICAN PUBLIC HEALTH ASSOCIATION



TEAM KENTUCKY
CABINET FOR HEALTH
AND FAMILY SERVICES

Slide 2

Objectives

- Participants will be able to identify how proposed improvements can streamline your reporting workflows, reduce administrative burden, and provide you with more timely and relevant feedback on multidrug-resistant organism (MDRO) trends in your facilities and the wider region
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- Attendees will collaborate on shaping a practical and sustainable MDRO reporting system for Kentucky by sharing your insights, experiences, and concerns

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Slide 3


HAI/AR Prevention Program Updates


- ◆ **KDPH Antimicrobial Stewardship Efforts**
 - ◆ Aravind Pillai MBBS, PhD, MPH
 - » Antimicrobial Stewardship Lead
 - » Aravind.pillai@ky.gov
 - » Phone: 502-564-7218
 - ◆ **New** Antimicrobial Resistance and Stewardship webpage at KDPH
 - » <https://www.chfs.ky.gov/agencies/dph/dehp/dbb/Pages/AS.aspx>


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Slide 4

HAI/AR Prevention Program Updates (cont.)

 **New NHSN Program Lead**

 Cody Rocha MPH, CIC

 Cody.rocha@ky.gov


 Phone: 502-564-6584

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Slide 5


MDROs and their Impact in Kentucky




INCREASED ANTIBIOTIC RESISTANCE



LONGER HOSPITAL STAYS AND HEALTHCARE COSTS



MDROS IN SKILLED NURSING FACILITIES




SURVEILLANCE AND REPORTING

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Slide 6

MDRO Prevention and Management in Kentucky




Infection control practices



Antimicrobial stewardship



Enhanced barrier precautions



Early identification and management

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Slide 7

MDROs Reportable in Kentucky

Routine reporting

- *Clostridioides difficile* (*C. difficile*)
- Enterobacterales species resistant to ceftazidime, ceftriaxone, or cefotaxime
- Methicillin-resistant *Staphylococcus aureus* (MRSA)
- Vancomycin-resistant Enterococcus species (VRE)

Priority reporting


- *Candida auris* (*C. auris*)
- Carbapenem-resistant *Acinetobacter*
- Carbapenem-resistant Enterobacterales (CRE)
- Carbapenem-resistant *Pseudomonas*
- Vancomycin-intermediate *Staphylococcus aureus* (VISA)
- Vancomycin-resistant *Staphylococcus aureus* (VRSA)

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Slide 8


MDRO Reporting in Kentucky



902 KAR 2:020 KY Reportable Disease Surveillance Regulation
<https://apps.legislature.ky.gov/law/kar/2/files/902/002/020/>



Sections 10 – 15
Reporting related to the Healthcare-Associated Infections and Antimicrobial Resistance (HAI/AR) Prevention Program




KY Reportable MDRO Form
EPID-250

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Slide 9



What challenges do you face in reporting MDRO data to KDPH?

① The [slido app](#) must be installed on every computer you're presenting from

slido

Do not edit this slide content

Slide 10

Charting a Course for Enhanced Reporting

Overall Goal

- To establish a more efficient, accurate, and timely MDRO reporting system in Kentucky to better protect public health


Specific Objectives

- Improve the speed and efficiency of data submission
- Enhance data quality and completeness
- Facilitate timely analysis and identification of outbreaks and trends
- Reduce the administrative burden on reporting facilities
- Strengthen data sharing for informed public health interventions

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Slide 11




How do KY healthcare facilities report pathogens to KDPH?

The [slido app](#) must be installed on every computer you're presenting from

slido

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How to change the design

Slide 12



How many KY healthcare facilities are using direct data entry (DDE) to report other reportable diseases to KDPH?


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slido


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How to change the design

Slide 13


Key Strategies for a More Robust System




Embrace Electronic Health Record (EHR) Integration




Standardize Data Elements and Reporting Forms




Implement a Centralized Electronic Reporting System



Enhance Training and Support



Improve Feedback Mechanisms



Explore Interoperability with Existing Public Health Systems

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Slide 14

Benefits of an Improved Reporting System

Enhanced Surveillance

Faster Outbreak Detection and Response

Improved Prevention Strategies

More Effective Resource Allocation

Reduced Healthcare Costs

Improved Patient Outcomes


Strengthening Public Health Security

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Slide 15

Collaboration is Key

 Working together for a healthier Kentucky


- Healthcare facilities (hospitals, long-term care, clinics)
- Public health agencies (local and state)
- Laboratories
- Healthcare professional organizations
- Patients and the community

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Slide 16


Your Role in Strengthening MDRO Reporting



PROVIDE FEEDBACK ON PROPOSED CHANGES



ADVOCATE FOR RESOURCES




EMBRACE NEW REPORTING PROCESSES

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Slide 17

Questions & Discussion



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Slide 18

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- ♥ <https://www.cdc.gov/healthcare-associated-infections/php/preventing-mdros/index.html>

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Thank you.

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