

Nebraska DHHS HAI/AR Program

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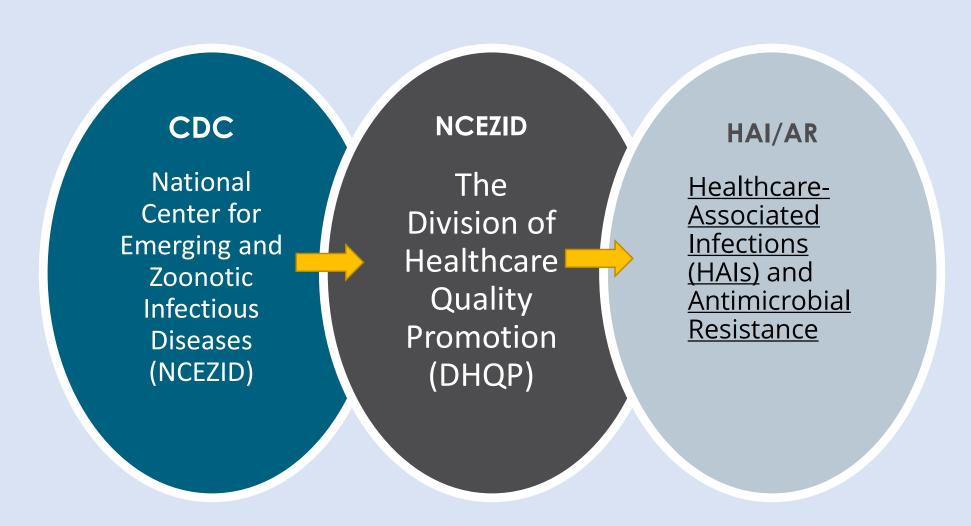


HAI Burden in the United States

- □CDC estimates that on any given day, 1 in 31 hospital patients has at least one healthcare associated infection
- □Cost billions of dollars in added expenses to the health-care system
- ☐ Can have devastating effects on physical, mental/emotional, and financial health
- Super germ (antibiotic resistant germs) is a big concern. A growing number of HAIs are caused by pathogens (germs) that our outsmarting the antimicrobial drugs typically used to fight them

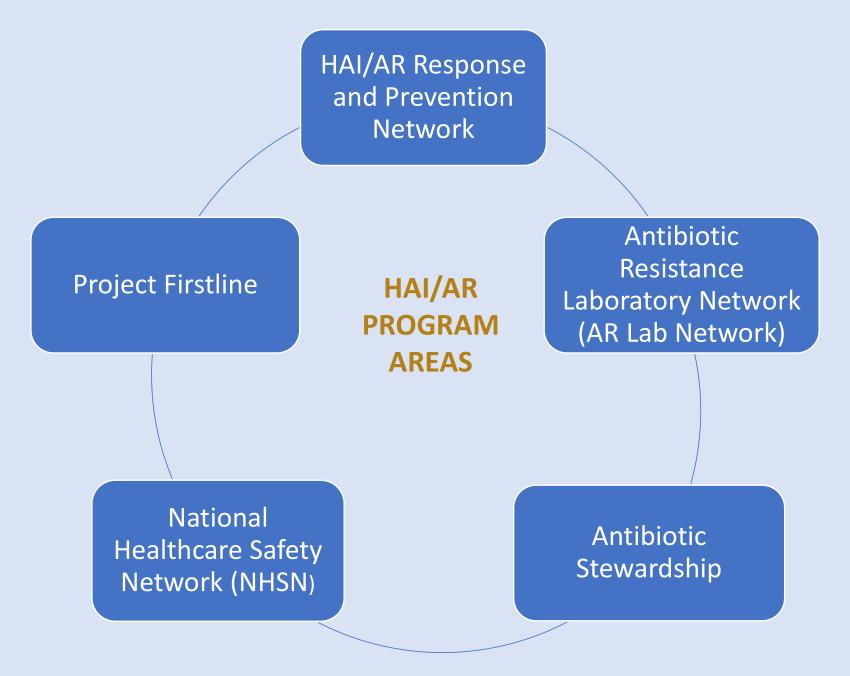


About the HAI/AR Program





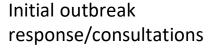
Programs are Organized around Five Key Program Areas



Nebraska DHHS HAI/AR Program

State

Monitors HAI rates and AR data and keep facilities informed regarding progress and opportunities



Assist facilities with data reporting and validations

Partners with stakeholders to drive changes focused on decreasing HAIs and AR



Academia

Partners with facilities to assess & advance their IC and AS programs on voluntary basis

Assist with IC assessment during outbreaks

Connect all facilities in the state with IC and AS subject matter experts

Develop educational resources and guidance

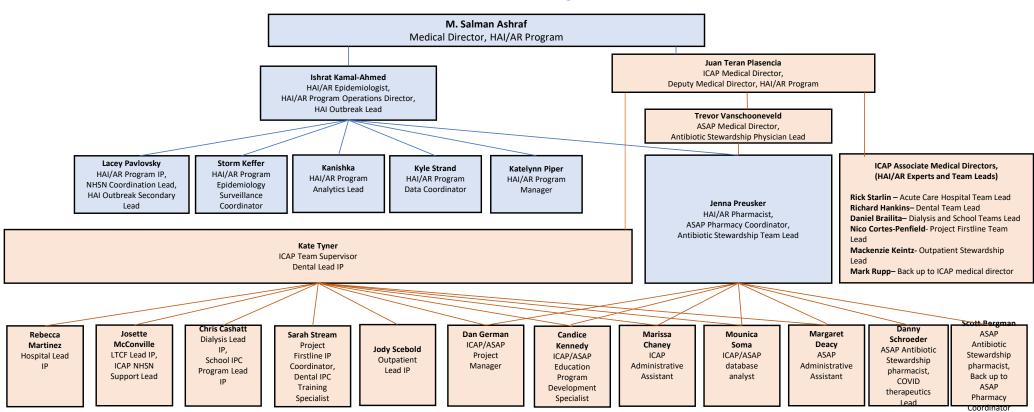


Nebraska Infection Control Assessment and Promotion Program (ICAP)

Nebraska Antimicrobial Stewardship Assessment and Promotion Program (ASAP)



Nebraska DHHS HAI/AR Program



Notes

- 1. This chart outlines the roles of HAI/AR program team members and represents day-to-day workflow. It does not reflect organizations' administrative reporting structure. All NDHHS HAI/AR program staff reports to "Deputy Director, Epidemiology, Informatics and Vitals Units". UNIMC and Nebraska Medicine employees (working for ICAP and ASAP) have reporting responsibilities within their organizations. HAI/AR Program Medical Director also has additional reporting responsibility to state epidemiologist.
- 2. Administrative leaders for this collaboration are Matt Donahue and Felicia Quintana-Zinn at NDHHS, Mark Rupp at UNMC ID-Division and Shelly Schwedhelm at Nebraska Medicine
- 3. The chart only describes the primary responsibilities of the staff within HAI/AR program. Many staff members have secondary responsibilities of assisting other team members in their roles or may have additional responsibilities outside the HAI/AR program
- 4. Blue colored boxes identify staff with NDHHS credentials and orange color boxes identify staff with primary responsibilities either at ICAP, ASAP or both
- 5. HAI/AR Program IP also assist with some ICAP activities



Reporting to the State

HAIs are Reportable in Nebraska – Title 173

Associated Infections (HAIs): Healthcare Associated Infections (HAIs) that are reported by healthcare facilities to CDC's NHSN are reportable. If a healthcare facility provides access to NSHN Healthcare Associated Infection (HAI) data to the department and its local public health department and Healthcare Associated Infections (HAIs) are reported to NHSN on a quarterly basis aligning with the CMS Reporting Schedule, the physician is not required to make the Healthcare Associated Infection (HAI) report. Physicians remain obligated to report Healthcare Associated Infections (HAIs) when access to NHSN data is not provided to the department. In the event of an outbreak, the department has the authority to require Healthcare Associated Infection (HAI) data reports from facilities not currently reporting to NHSN.

1-004.01B Clusters, Outbreaks, or Unusual Events, Including Possible Bioterroristic Attacks*: Clusters, outbreaks, or epidemics of any health problem, infectious or other, both in the community and in healthcare settings, including food poisoning, healthcare-associated outbreaks or clusters, influenza, or possible bioterroristic attack; increased disease incidence beyond expectations; unexplained deaths possibly due to unidentified infectious causes; and any unusual disease or manifestations of illness must be reported immediately.

How to IMMEDIATELY report to the State

<u>Preferred Method (in addition to electronic laboratory reporting or ELR)</u>

Notify the state HAI team by creating an alert for the NEDHHS HAI team:

https://epi-dhhs.ne.gov/redcap/surveys/?s=7XWYTPPFHAAP3ALX Website: https://dhhs.ne.gov/pages/Healthcare-Associated-Infections.aspx

Or Call: 531-207-4053 (Ishrat) or 402-219-3115 (Storm)

Other:

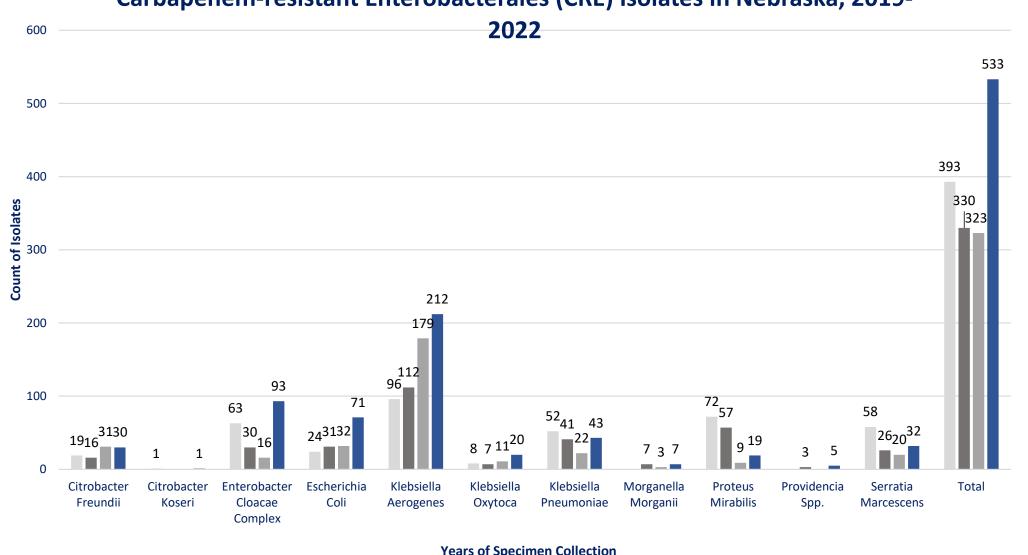
General Epidemiologic Unit phone number: 402-471-2937 (8 am to 5 pm, M through F)

Poison Control (Last Resort): 1-800-222-1222 (After hours and weekends)

Nebraska HAI/AR Data

Carbapenem-Resistant Enterobacterales in Nebraska

Carbapenem-resistant Enterobacterales (CRE) Isolates in Nebraska, 2019-



Years of Specimen Collection

■ year 2020

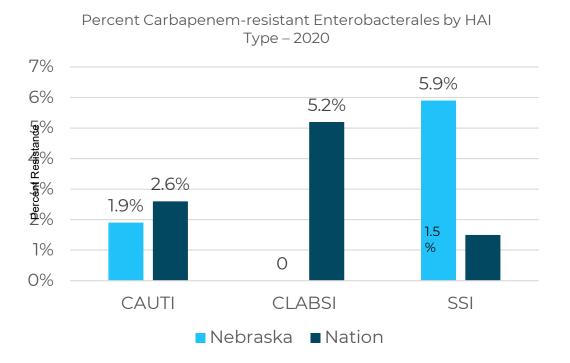
■ year 2019

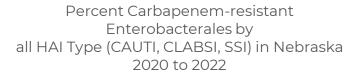
■ year 2021

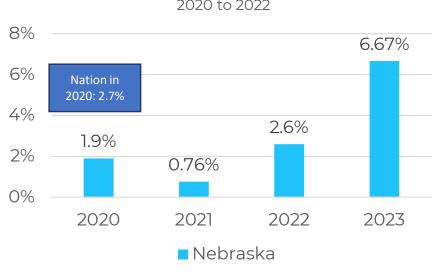
■ year 2022

NEBRASKA **DIVISION OF PUBLIC HEALTH** Good Life. Great Mission.

CRE Trends Related to HAIs







Source: NHSN Data

https://arpsp.cdc.gov/profile/antibiotic-resistance/carbapenem-resistant-enterobacterales https://arpsp.cdc.gov/profile/geography/nebraska



Carbapenemase Genes Identified in Enterobacterales Isolates, Nebraska 2019-2023

Year	KPC	NDM	VIM	OXA- 48	OXA- (Other than 48)	Total
2019	18	9	0	0	3	30
2020	8	0	0	1	0	9
2021	3	0	0	1	0	4
2022	8	3	1	1	0	13
2023 to date	6	5	0	4	0	15

In 2023, 1 case each of
Carbapenemase
producing
Pseudomonas
aeruginosa, and
Acinetobacter
Baumannii has also
been isolated



NHSN Overview and Nebraska NHSN Data

What is NHSN?

National Healthcare Safety Network (NHSN)

CDC's domestic tracking and response system to identify emerging and enduring threats across healthcare, such as COVID-19, healthcare-associated infections (HAIs), and antimicrobial-resistant (AR) infections

179,000+

HAI cases were reported to NHSN by acute care hospitals in 2021 for six common HAI types^{1,2}

4 out of 6

types of HAI rates were reported as significantly higher in U.S. hospitals during the COVID-19 pandemic following years of steady decline³



3 million+

nursing home residents and staff COVID-19 vaccination data collected and analyzed

What is NHSN continued?



38,000+ facilities use NHSN to track and stop infections.



During the COVID-19 pandemic, CDC leveraged actionable data reported to NHSN from hospitals and nursing homes to inform U.S. response efforts.



NHSN will support the National Biodefense Strategy by providing the platform for hospital bed occupancy and capacity data for all U.S. hospitals.4

NHSN is the cornerstone of U.S. infectious disease tracking in healthcare facilities

- The nation's most comprehensive and established system to capture and analyze infection data, drive improvement in healthcare quality, and stop the spread of deadly pathogens.
- Used by 38,000 U.S. healthcare facilities nearly all hospitals, nursing homes, dialysis facilities, and ambulatory surgery centers.
- Saving lives by preventing tens of thousands of infections through reliable, actionable data.
- Highly adaptable for emerging threats and used for federal, state, local, and healthcare facility emergency response decision-making.
- Backed by CDC experts in public health, healthcare, data science, epidemiology, and infection prevention and control.

NHSN is a best buy for public health, healthcare improvement, and emergency response

- To sustain this essential work, the FY24 President's budget proposes a \$26 million increase to \$50 million.
- Annual appropriations were stable from FY16-22 at \$21 million.
 In FY23, there was an increase of \$3 million.
- From FY22-26, CDC is investing approximately \$60 million annually from COVID-19 supplemental appropriations to modernize and expand NHSN and support health department use of NHSN.
- When supplemental funds end, CDC will not be able to continue supporting this important work at the current level.



Benefits for NHSN Reporting

☐ For Medical Facilities:

- While ensuring data security, integrity, and confidentiality,
 NHSN gives healthcare facilities the ability to see their data in
 real-time and share that information with clinicians and
 facility leadership, as well as with other facilities (e.g., a
 multihospital system) and partners such as health
 departments or quality improvement organizations.
- CDC provides the standard national measures for HAIs as well as analytic tools that enable each facility to assess its progress and identify where additional efforts are needed.
- In addition, NHSN is the conduit for facilities to comply with Centers for Medicare and Medicaid Services (CMS) infection reporting requirements.



Benefits for NHSN Reporting

☐ For Patients:

In addition to benefiting from increased attention to HAI prevention, patients can use NHSN data posted publicly on the Department of Health and Human Services' Hospital Compare website. Patients are encouraged to visit the website to see how their local facilities are doing and discuss concerns with their healthcare providers.

☐ For States and for the Nation:

 NHSN data are analyzed by CDC and others to direct actions for HAI prevention. Local, state, and national HAI trends are used to identify emerging problems and areas of concern that need intervention, and to measure progress in HAI reduction against national, state, and local prevention goals.

Healthcare Facility HAI Reporting Requirements to CMS via NHSN-- Current or Proposed Requirements

CMS Reporting Program	HAI Event	Reporting Specifications	Reporting Start Date
	CLABSI	Adult, Pediatric, and Neonatal ICUs	January 2011
	CAUTI	Adult and Pediatric ICUs	January 2012
Hospital Inpatient Quality Reporting (IQR) Program	SSI: COLO	Inpatient COLO Procedures	January 2012
	SSI: HYST	Inpatient HYST Procedures	January 2012
	MRSA Bacteremia LabID Event	FacWideIN	January 2013
	C. difficile LabID Event	FacWidelN	January 2013
	Healthcare Personnel Influenza Vaccination	All Inpatient Healthcare Personnel	January 2013
	Medicare Beneficiary Number	All Medicare Patients Reported into NHSN	July 2014
	CLABSI	Adult & Pediatric Medical, Surgical, & Medical/Surgical Wards	January 2015
)3 38	CAUTI	Adult & Pediatric Medical, Surgical, & Medical/Surgical Wards	January 2015



Healthcare Facility HAI Reporting Requirements to CMS via NHSN-- Current or Proposed Requirements

ESRD Quality	Dialysis Event (includes Positive blood culture, I.V. antimicrobial start, and signs of vascular access infection)	Outpatient Hemodialysis Facilities	January 2012		
Incentive Program (QIP)	Healthcare Personnel Influenza Vaccination	As of October 1, 2018, ESRD QIP no longer requires outpatient dialysis facilities to submit Healthcare Personnel Influenza Vaccination event data	October 2015		
	CLABSI	Adult & Pediatric LTAC ICUs & Wards	October 2012		
Long Term Care Hospital* Quality Reporting (LTCHQR) Program	CAUTI	Adult & Pediatric LTAC ICUs & Wards	October 2012		
	Healthcare Personnel Influenza Vaccination	All Inpatient Healthcare Personnel	October 2014		
		FacWideIN	January 2015		
	MRSA Bacteremia LabID Event	As of October 1, 2018, LTCHQR no longer requires LTACs to submit MRSA Bacteremia LabID event data			
	C. difficile LabID Event	FacWideIN	January 2015		
		Adult LTAC ICUs & Wards	January 2016		
	VAE	As of October 1, 2018, LTCHQR no longer requires LTACs to submit VAE event data			

https://www.cdc.gov/nhsn/pdfs/cms/cms-reporting-requirements.pdf

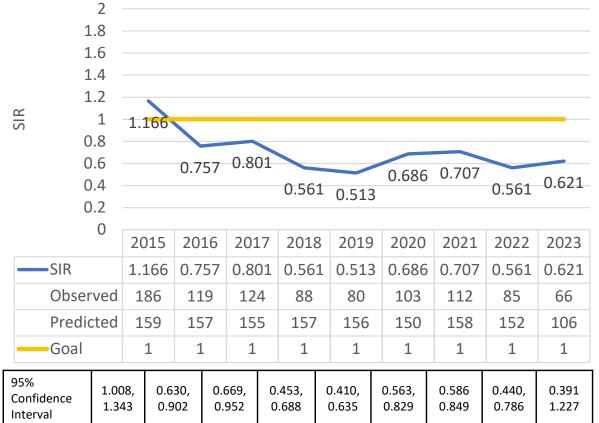


Healthcare Facility HAI Reporting Requirements to CMS via NHSN-- Current or Proposed Requirements

CMS Reporting Program	HAI Event	Reporting Specifications	Reporting Start Date			
- V	CAUTI	Adult & Pediatric IRF Wards	October 2012			
Inpatient Rehabilitation	Healthcare Personnel Influenza Vaccination	All Inpatient Healthcare Personnel	October 2014			
Facility Quality		FacWidelN	January 2015			
Reporting (IRFQR) Program	MRSA Bacteremia LabID Event	As of October 1, 2018, IRFQR no longer requires IRFs to submit MRSA Bacteremia LabID event data				
	C. difficile LabID Event	FacWidelN	January 2015			
Ambulatory Surgery Centers Quality Reporting (ASCQR) Program	gery Centers Healthcare Personnel Influenza Vaccination As of October 1, 2018, ASCQR no longe ASCs to submit Healthcare Personnel I					
PPS-Exempt Cancer Hospital Quality Reporting (PCHQR) Program	CLABSI	All Bedded Inpatient Locations	January 2013			
	CAUTI	All Bedded Inpatient Locations	January 2013			
	SSI: COLO	Inpatient COLO Procedures	January 2014			
	SSI: HYST	Inpatient HYST Procedures	January 2014			
	MRSA Bacteremia LabID Event	FacWidelN	January 2016			
	C. difficile LabID Event	FacWidelN	January 2016			
	Healthcare Personnel Influenza Vaccination	All Inpatient Healthcare Personnel	October 2016			
Inpatient Psychiatric	Healthcare Personnel Influenza	All Inpatient Healthcare Personnel	October 2015			
Facility Quality Reporting (IPFQR) Program	Vaccination	As of October 1, 2018, IPFQR no longer requires IPFs to submit Healthcare Personnel Influenza Vaccination event data				



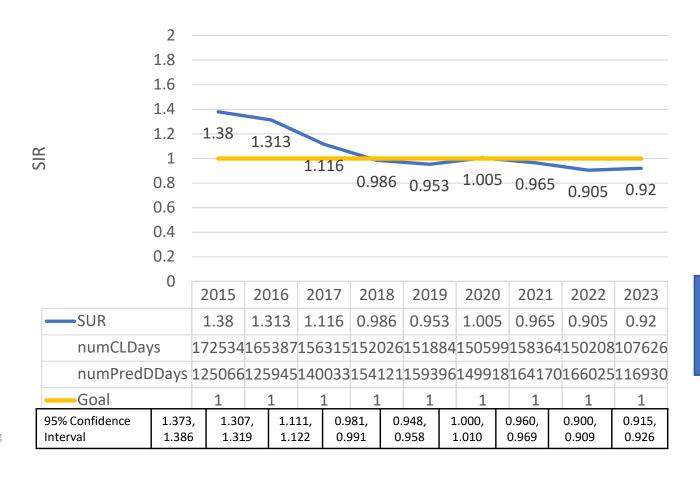
CLABSI [ALL LOCATIONS] – Nebraska 2015-2023



*2023 Data is for January 2023-September 2023

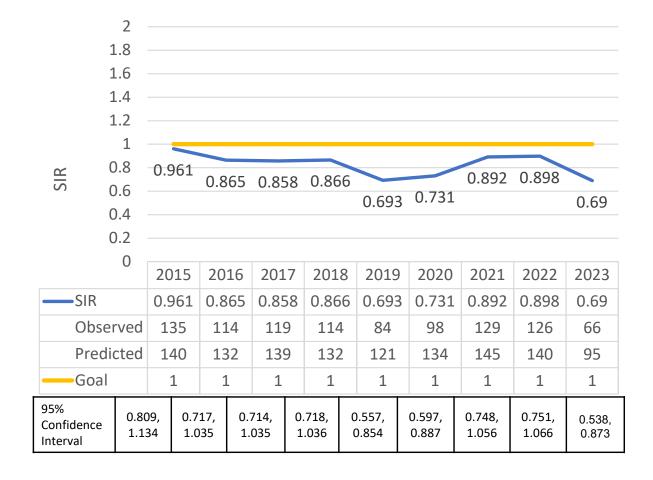
Confidence Interval 1.343 0.902 0.952 0.688 0.635 0.829 0.849 0.786 1.227	95% Confidence Interval	1.008, 1.343	0.630, 0.902	0.669, 0.952	0.453 <i>,</i> 0.688	0.410, 0.635	0.563, 0.829	0.586 0.849	0.440 <i>,</i> 0.786	0.391 1.227
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Central Line Utilization – Nebraska 2015-2023



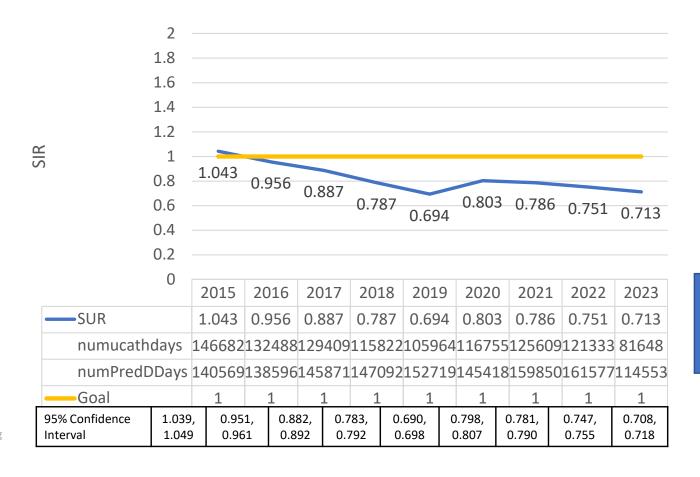
*2023 Data is for January 2023-September 2023

CAUTI [ALL LOCATIONS] Nebraska 2015 to 2023



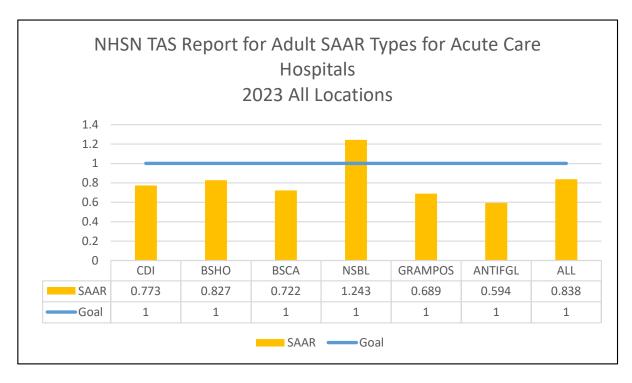
*2023 Data is for January 2023-September 2023

Indwelling Urinary Catheter Utilization—Nebraska 2015-2023



*2023 Data is for January 2023-September 2023

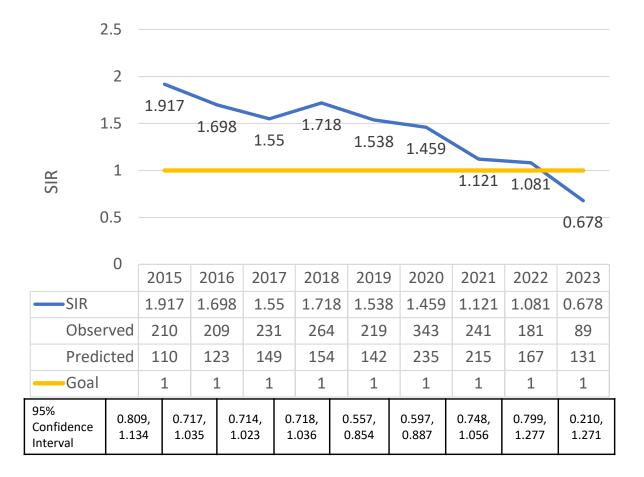
TAS Report for Adult SAAR Types for Acute Care Hospitals – Nebraska 2023



*2023 Data is for January 2023-September2023

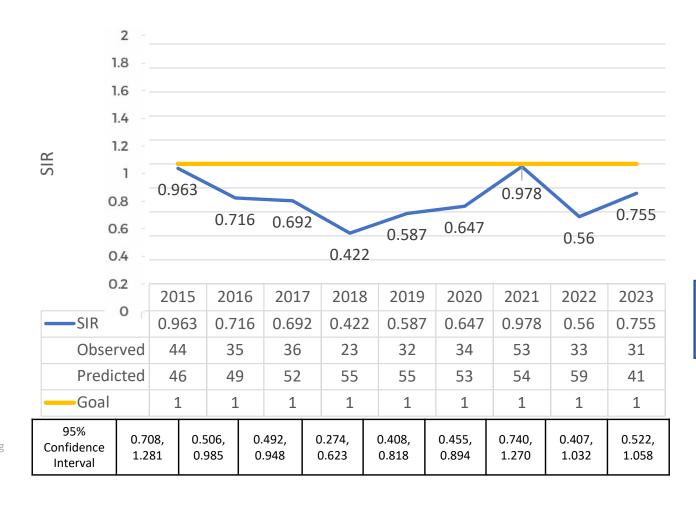
SAARTypeCat	Three highest use drugs within SAAR Type (Percentage)
CDI	CEFTRX(52); CEFEP(27); LEVO(12);
BSHO	PIPERWT(61); CEFEP(28); MERO(9);
BSCA	CEFTRX(69); LEVO(16); ERTA(9);
NSBL	CEFAZ(48); AMOXWC(15); AMPIWS(14);
GRAMPOS	VANC(82); DAPTO(11); LNZ(5);
ANTIFGL	FLUCO(67); MICA(33); ANID(0);
ALL	PIPERWT(15); CEFTRX(14); VANC(13);

Ventilator-Associated Event (Total VAE) Nebraska 2015 to 2023



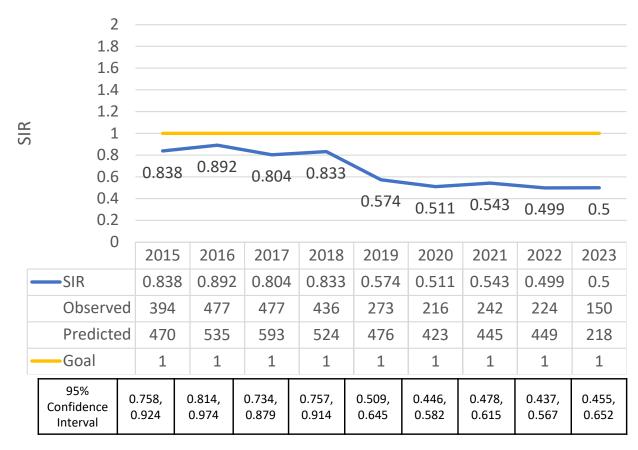
*2023 Data is for January 2023-September 2023

MRSA Bacteremia [Acute Care] – Nebraska 2015 to 2023



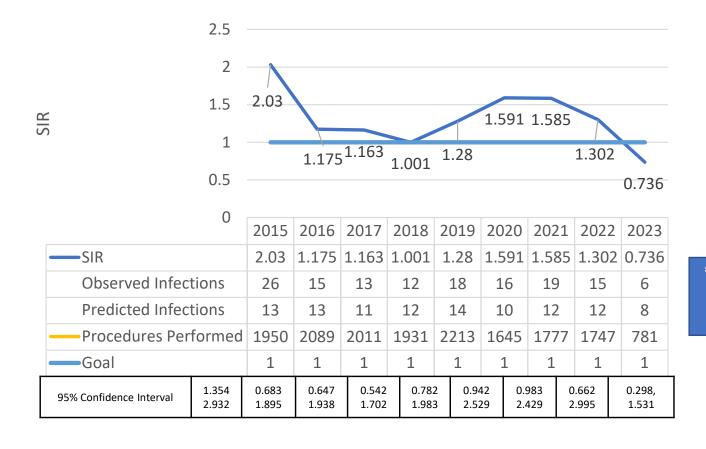
*2023 Data is for January 2023-September 2023

CDI [Acute Care] – Nebraska 2015 to 2023



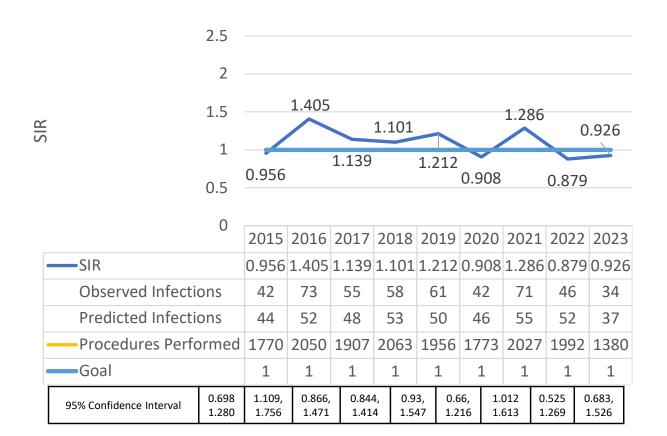
*2023 Data is for January 2023-September 2023

Surgical Site Infections [Abdominal Hysterectomy] – Nebraska 2015 to 2023



*2023 Data is for January 2023-June 2023

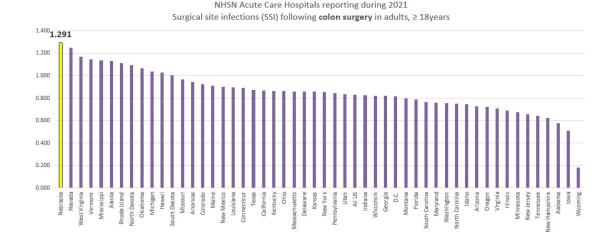
Surgical Site Infections [Colon] – Nebraska 2015 to 2023

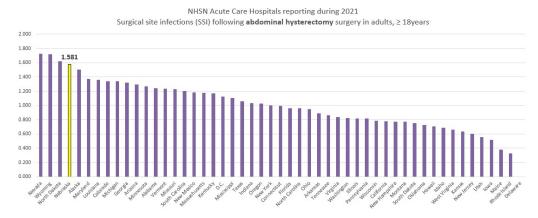


*2023 Data is for January 2023-September 2023

2021 SIR Comparison for SSI Among All States

Nebraska has the <u>highest SIR</u> for Surgical Site Infections following Colon Surgeries





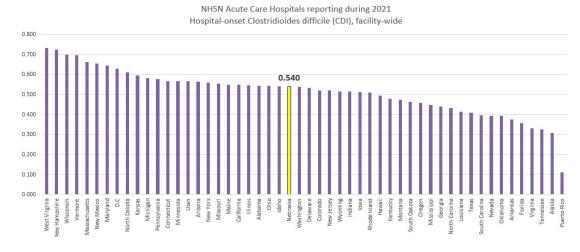
Nebraska has the <u>fourth highest SIR</u> for Surgical Site Infections following Abdominal Hysterectomies

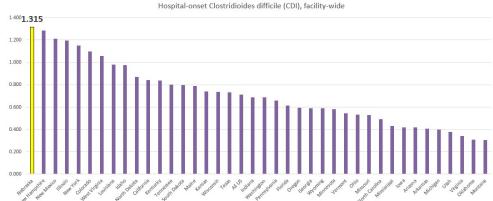
https://www.cdc.gov/hai/data/portal/progress-report.html



Digging Deeper into Hospital- Onset C. difficile Infections

Nebraska acute care hospitals (excluding critical access hospitals) ranked 26th for lowest SIR for *C. difficile* Infections among all 50 states in the US in 2021 (with 28 facilities contributing to this report)





NHSN Critical Access Hospitals reporting during 2021

Nebraska critical access hospitals have the highest SIR for *C. difficile* Infections among all 50 states in the US in 2021 (with 36 facilities contributing to this report)

https://www.cdc.gov/hai/data/portal/progress-report.html



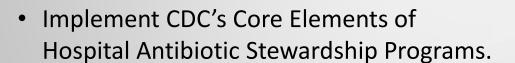
Nebraska Antimicrobial Stewardship Assessment and Promotion (NE ASAP) Program

Juan Teran Plasencia, MD Medical Director of Nebraska ICAP



Antimicrobial Stewardship

- Implement an antimicrobial stewardship program.
 - Appropriate antimicrobial use includes avoiding antimicrobial exposure if the patient does not have a condition for which antimicrobials are indicated and deescalating antibiotic therapy when feasible.







ASP Core Elements

Core Elements of Hospital Antibiotic Stewardship Programs



Hospital Leadership Commitment

Dedicate necessary human, financial, and information technology resources.



Accountability

Appoint a leader or co-leaders, such as a physician and pharmacist, responsible for program management and outcomes.



Pharmacy Expertise (previously "Drug Expertise"):

Appoint a pharmacist, ideally as the co-leader of the stewardship program, to help lead implementation efforts to improve antibiotic use.



Action

Implement interventions, such as prospective audit and feedback or preauthorization, to improve antibiotic use.



Tracking

Monitor antibiotic prescribing, impact of interventions, and other important outcomes, like *C. difficile* infections and resistance patterns.



Reporting

Regularly report information on antibiotic use and resistance to prescribers, pharmacists, nurses, and hospital leadership.



Education

Educate prescribers, pharmacists, nurses, and patients about adverse reactions from antibiotics, antibiotic resistance, and optimal prescribing.



Core Elements are not unlike the performance improvement model





Nebraska ASAP Structure and Goals

- Supported through Nebraska Department of Health and Human Services (DHHS) through a CDC grant
- Team consists of ID pharmacists, ID physicians, infection preventionists, database analysts, and administrative assistants
- The goal of ASAP is to <u>promote the effective use of antimicrobials</u> and improve patient outcomes throughout the state of Nebraska by <u>collaborating</u> with local clinicians, pharmacists, infection preventionists and other health care workers to <u>establish effective</u> antimicrobial stewardship programs.



Examples of ASAP Activities

- Assist with antimicrobial stewardship program (ASP) development/alignment with CDC Core Elements (important CMS surveys)
- Answer any ASP questions/troubleshoot issues/provide 1:1 guidance
- Assist with tracking and interpretation of antimicrobial use data
- Nebraska ASAP website with numerous helpful resources for acute care, outpatient, and long-term care facilities (https://asap.nebraskamed.com/)
- YouTube account with informational videos on antimicrobial stewardship (https://www.youtube.com/channel/UCbRttgPKWu2z53Fj3OlKMxw)
- Host annual Nebraska Antimicrobial Stewardship Summit
- Services offered at no cost to facilities thanks to CDC grant funding



Core Element Assessment Surveys

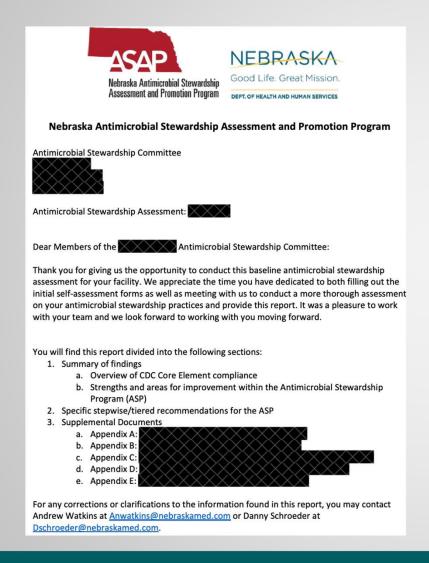
- Links/QR codes below lead to a stewardship self-assessment survey (~15-30 minutes to complete)
- Once complete, ASAP will review results and reach out to schedule a meeting with your ASP team and our ID pharmacists and physicians
- Discuss your ASP, provide targeted feedback, answer any questions you have, and provide written report
- These assessments are not regulatory in any way and are a free resource for you to improve your antimicrobial stewardship program.

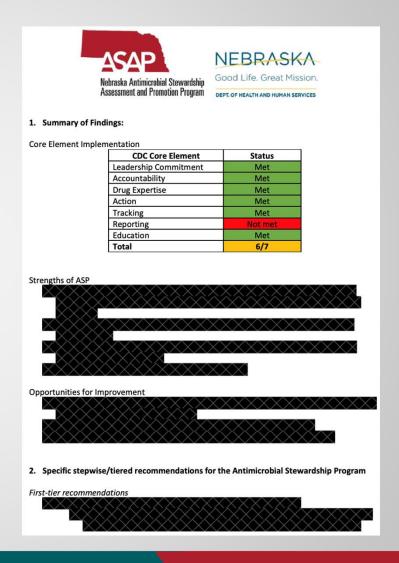
https://redcap.nebraskamed.com/surveys/?s=3HKX3R9AAH





Example of ASAP Core Element Assessment Report







Nebraska Infection Control Assessment and Promotion (NE ICAP) Program

Juan Teran Plasencia, MD Medical Director of Nebraska ICAP

Rebecca Martinez, BA, BSN, RN, CIC Infection Preventionist, NE ICAP



How did we get here?

2009

- American Recovery and Reinvestment Act
- HAI Programs -> CDC Epidemiology and Laboratory Capacity (ELC)
- HAI surveillance -> CDC Emerging Infection Program (EIP)

2014

• Ebola Preparedness and Response Activities

2015

- Domestic Ebola supplement -> Healthcare Infection Control Assessment and Response (ICAR)
- ICAP is funded to provide technical support to state and local health departments



Nebraska ICAP Program

- Our team includes experienced infection preventionists, infectious disease trained medical directors, and professional educators.
- ICAP represents an academic and public partnership to combine resources and expertise to meet the needs of healthcare facilities.
- NE ICAP offers no cost, peer-to-peer infection control assessments and recommendations.
- Other services include being available for consultations to answer IPC questions and provide education, sharing information on our website, a monthly webinar for acute care and outpatient settings, a monthly webinar for long-term care settings, listings of helpful infection prevention and control (IPC) resources, and development of tools and other publications.



Additional ICAP initiatives for All Healthcare Settings

- Infection preventionist mentoring program
- Individualized IPC training sessions for healthcare facilities staff through Project Firstline
- IPC office hours
- Social media outreach for infection control education of frontline healthcare workers
 - Facebook, LinkedIn, Instagram
 - Mouthy IP podcast
 - Dirty Drink podcast
 - Dental IPC bites (Newsletter)
 - Nebraska ASAP YouTube Channel

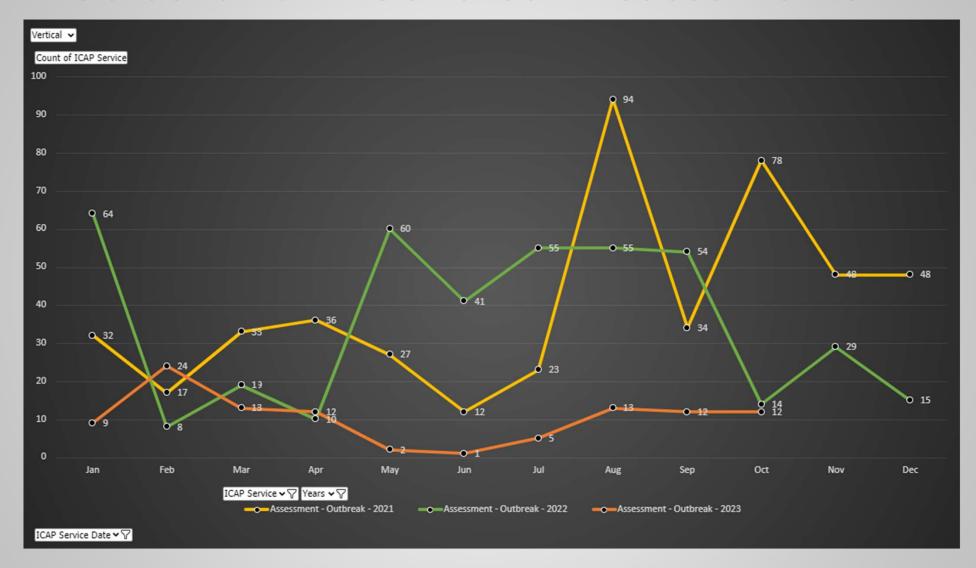


ICAP Support by Setting Type

Acute Care Dental Dialysis Long-term care Outpatient School



Nebraska ICAP Outbreak Assessments





CDC's Core IPC Practices for Safe Healthcare

- CDC's Core Infection Prevention and Control Practices for Safe Healthcare
 Delivery in All Settings represent fundamental standards of care that are not
 expected to change based on emerging evidence or to be regularly altered
 by changes in technology or practices and are applicable across the
 continuum of healthcare settings.
 - There are 8 core practice categories:
 - Leadership Support
 - Education and Training of Healthcare Personnel on Infection Prevention
 - Patient, Family and Caregiver Education
 - Performance Monitoring and Feedback
 - Standard Precautions
 - Includes hand hygiene, environmental cleaning and disinfection, injection and medication safety, risk assessment with use of personal protective equipment (PPE), minimizing potential exposures, and reprocessing of reusable medical equipment.
 - Transmission-Based Precautions
 - Temporary Invasive Medical Devices for Clinical Management
 - Occupational Health



CMS Memo QSO-22-20-HOSPITALS

DEPARTMENT OF HEALTH & HUMAN SERVICES Centers for Medicare & Medicaid Services 7500 Security Boulevard, Mail Stop C2-21-16

7500 Security Boulevard, Mail Stop C2-21-16 Baltimore, Maryland 21244-1850



Center for Clinical Standards and Quality/Quality, Safety & Oversight Group

Ref: QSO-22-20-Hospitals

DATE: July 6, 2022

TO: State Survey Agency Directors

FROM: Director, Quality, Safety & Oversight Group (QSOG)

SUBJECT: Infection Prevention and Control and Antibiotic Stewarship Program Interpretive

Guidance Update

Memorandum Summary

Updates to interpretive guidance for hospital requirements— CMS published the final
rule Medicare and Medicaid Programs; Regulatory Provisions to Promote Program
Efficiency, Transparency, and Burden Reduction Final Rule which revised the regulatory
requirements for hospitals related to infection prevention and control and antibiotic
stewardship programs. We made conforming revisions to the interpretive guidelines.

Background:

On September 30, 2019The Centers for Medicare & Medicaid Services (CMS) published the final rule <u>Medicare and Medicaid Programs; Regulatory Provisions to Promote Program</u> <u>Efficiency, Transparency, and Burden Reduction Final Rule</u>, which included revisions for the hospital Conditions of Participation (CoP) for 42 CFR §482.42 Infection preventions and control and antibiotic stewardship programs.

CMS QSO-22-20-Hospitals

Updates to the interpretive guidance for hospital requirements, State Operations Manual, Appendix A – Survey Protocol, Regulations and Interpretative Guidelines for Hospitals - 42 CFR §482.42 Conditions of Participation (CoP): Infection prevention and control and antibiotic stewardship programs.

CMS - Appendix A - Hospitals

Similar State Operations Manual,

Appendix W – Survey Protocol,

Regulations and Interpretative

Guidelines for Critical Access Hospitals

(CAHs) and Swing-Beds in CAHs - 42 CFR

§485.640 Conditions of Participation

(CoP): Infection prevention and control and antibiotic stewardship programs.

CMS - Appendix W - CAHs



CMS CoP – IPC & QAPI Program Support

§485.640 Condition of Participation: Infection Prevention and Control and Antibiotic Stewardship Programs

The CAH must have active facility-wide programs, for the surveillance, prevention, and control of HAIs and other infectious diseases and for the optimization of antibiotic use through stewardship. The programs must demonstrate adherence to nationally recognized infection prevention and control guidelines, as well as to best practices for improving antibiotic use where applicable, and for reducing the development and transmission of HAIs and antibiotic-resistant organisms. Infection prevention and control problems and antibiotic use issues identified in the programs must be addressed in coordination with the facility-wide quality assessment and performance improvement (QAPI) program.

C-1229

(Rev. 200, Issued: 02-21-20; Effective: 02-21-20, Implementation: 02-21-20)

[(c) Standard: Leadership responsibilities]

§485.640(c)(1)(ii) All HAIs and other infectious diseases identified by the infection prevention and control program as well as antibiotic use issues identified by the antibiotic stewardship program are addressed in collaboration with the CAH's QAPI leadership.

CMS - Appendix W - CAHs



Sample IPC Committee Agendas

- Attendance and approval of prior IPC committee meeting minutes
- Healthcare Associated Infections (outcome surveillance)
- Outbreaks
- Reportable Diseases per <u>Nebraska DHHS per 173 NAC 1 –</u>
 <u>Reporting and Control of Communicable Diseases and</u>
 Poisonings
- Process Surveillance
 - Hand Hygiene audits
 - PPE Standard and Transmission-Based Precaution audits
 - Safe Injection Practices and Blood Glucose Monitoring audits
- Employee Health Report
- Environmental Cleaning and Disinfection
- Antibiotic Stewardship Program Update
- Dialysis
 - Water reports ensure received
- Water management program (WMP)
- IPC policies or procedures, review and approve, as needed
- If applicable, update on any QAPI initiatives
- Other business and open discussion

PEEL PUBLIC HEALTH SECTION 1-7 INFECTION PREVENTION AND CONTROL RESOURCE GUIDE REQUIREMENTS OF THE INFECTION PREVENTION AND CONTROL PROGRAM

Appendix D

Infection Control Committee - Agenda Template

Standing Agenda items should include:

- Surveillance
 - Review of stats since previous meeting
 - b. Discuss deviations
 - c. Strategies for improvement
- 2. Peel Public Health Update
- 3. Pharmacy report re antibiotic use
 - a. Discuss deviations and strategies for improvement
- 4. MD report
- 5. Education
 - a. Activity report
 - Recommendations/priorities and establish strategies and action plans
- Environmental cleaning
 - a. Current issues
 - i. Facility
 - ii. Multi-use resident equipment
 - iii. Other
- 7. Outbreak review (applicable if an outbreak since previous meeting)
 - a. Review recommendations from summary
 - b. Establish priorities and establish strategies and action plans
- 8. Compliance reports
 - a. Review recommendations from report
 - b. Establish priorities and establish strategies and action plans
- 9. Other
 - a. Upcoming construction
 - b. New resources
 - Product evaluation

SAMPLE Infection Control
Committee Agenda Template



Injection & Medication Safety – Use Injection Safety Checklist

Proper hand hygiene, using alcohol-based hand rub or soap and water, is performed prior to preparing and administering medications.

Injections are prepared using aseptic technique in a clean area free from contamination or contact with blood, body fluids, or contaminated equipment.

Needles and syringes are used for only one patient (this includes manufactured prefilled syringes and cartridge devices such as insulin pens).

The rubber septum on a medication vial is disinfected with alcohol prior to piercing.

Medication vials are entered with a new needle and a new syringe, even when obtaining additional doses for the same patient.

Single-dose or single-use medication vials, ampules, and bags or bottles of intravenous solution are used for only one patient.

Medication administration tubing and connectors are used for only one patient.





Multi-dose vials are dated by healthcare when they are first opened and discarded within 28 days unless the manufacturer specifies a different (shorter or longer) date for that opened vial.

Note: This is different from the expiration date printed on the vial.

Multi-dose vials are dedicated to individual patients whenever possible.

Multi-dose vials to be used for more than one patient are kept in a centralized medication area and do not enter the immediate patient treatment area (e.g., operating room, patient room/cubicle).

Note: If multi-dose vials enter the immediate patient treatment area, they should be dedicated for single-patient use and discarded immediately after use.

Other Tips:

- Avoid multi-dose vials whenever possible
- Store vaccine at temperatures indicated by the manufacturer and discard when expired or indicated
- Only purchase safety needles for administration
- Wear a facemask when placing a catheter or injecting material into the epidural or subdural space (e.g., during myelogram, epidural or spinal anesthesia)

CDC's Core IPC Practices for Safe Healthcare Delivery in All Settings

CDC - One & Only Campaign

CDC - Injection Safety Checklist

OSHA Fact Sheet - Protecting Yourself When Handling Contaminated Sharps

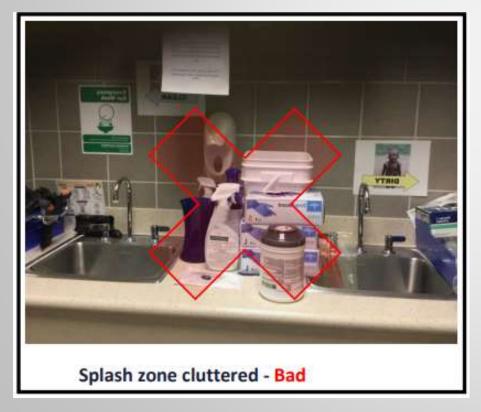


Splash Zones

- Outbreaks of infection have been associated with medications contaminated with tap water.
- Do not prepare medications near areas of splashing water (e.g., within 3 feet of a sink).

 Make sure sink splash zones do not contain any items which could become contaminated from hand washing/water splash.

Mount a splash guard when workspace is limited.







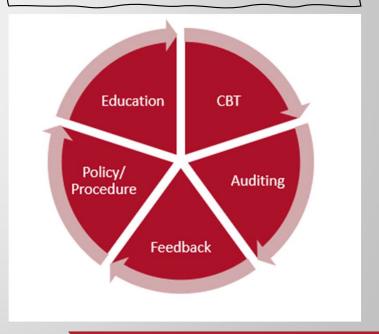


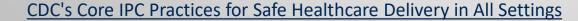
Education and Training of HCP on IPC

- Training should be adapted to reflect the diversity of the workforce, facility type, and tailored to meet the needs of each category of HCP being trained.
 - Provide job-specific, infection prevention education and training to all healthcare personnel for all tasks.
 - Require training before individuals are allowed to perform their duties and at least annually.
 - Provide additional training in response to recognized lapses in adherence and to address new equipment or protocols.
 - Develop processes to ensure that all HCP understand and are competent to adhere to IPC requirements as they perform their roles and responsibilities.
 - Provide written IPC policies and procedures that are available, current, and based on evidence-based guidelines (e.g., CDC/ HICPAC, etc.).

Competency-Based Training (CBT):

The provision of job-specific education, training, and assessment to ensure that healthcare personnel possess the proven ability to apply essential knowledge, skills, and abilities to prevent the transmission of pathogens during the provision of care.







Performance Monitoring and Feedback

- Performance measures should be tailored to the care activities and the population served.
 - Identify and monitor adherence to infection prevention practices and infection control requirements.
 - Auditing is monitoring and documenting.
 - Provide prompt, regular feedback on adherence and related outcomes to HCP and facility leadership.
 - Train performance monitoring personnel and use standardized tools and definitions.
 - Monitor the incidence of infections that may be related to care provided at the facility and act on the data and use information collected through surveillance to detect transmission of infectious agents in the facility.

CDC's Core IPC Practices for Safe Healthcare Delivery in All Settings





ICAR (infection Control Assessment and Response) Site Visits with ICAP

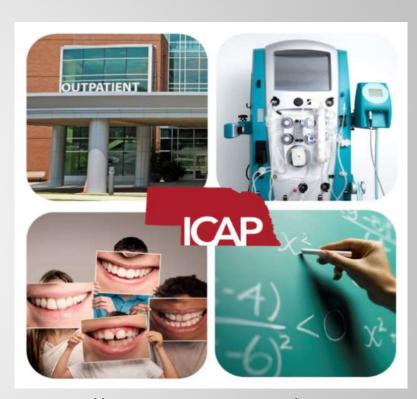
Visits are scheduled for both prevention and outbreak-related visits for all healthcare setting

The ICAP team evaluates infection prevention practices in a peer-to-peer, non-regulatory format.

ICAR evaluations are friendly, confidential, and free.

A visit generally takes 6 hours, but we are happy to customize the evaluation to any time frame that works best for the facility's schedule and can consider remote options. Most facilities find the informal dialogue during the visit to be most helpful.

On the day of the ICAR, we initially start out by sitting down and discussing current procedures related to infection control. Following, a portion of the visit will include touring the building and observing areas such as supply storage, laundry processing, hand hygiene, donning/doffing of PPE, point of care blood glucose testing and medication preparation areas. Any facility leadership are welcome participate during the visit.



https://icap.nebraskamed.com/ icar-assessments/



Focused ICAR Visits Are Available

Nebraska ICAP is available for on-site infection control assessment and response (ICAR) non-regulatory voluntary visits. Based on your request, we can provide a more focused assessment including some, or all of the below domains. An example would be an SSI focused ICAR looking at surgical suite practices including device reprocessing.

- Surgical Site Infection (SSI) Prevention
- Device Reprocessing including sterilization and high-level disinfection
- Infection Control Program and Infrastructure
- Hand Hygiene
- Personal Protective Equipment (PPE)
- Catheter-associated Urinary Tract Infection (CAUTI) Prevention
- Central Line associated Bloodstream Infection (CLABSI) Prevention
- Ventilator-associated Event (VAE) Prevention
- Injection Safety
- Clostridioides difficile infection (CDI) Prevention
- Environmental Cleaning & Disinfection (ATP testing offered during visit)
- Systems to Detect, Prevent, and Respond to HAIs and MDROs
- Healthcare Personnel Safety
- Water Management
- COVID-19 Prevention and Response
- Antimicrobial Stewardship
 - The NE ASAP program provides comprehensive assessments



Please let us know if interested nebraskaicap@nebraskamed.com (402) 552-2881



What is Assessed During an SSI- Focused ICAR Visit?

The visit would focus on the areas related to SSI prevention, including:

- Policies & Procedures related to Infection Prevention Control (IPC) and SSI Prevention
- Infection Control Training, Competency, and Audits
- Perioperative Environment
- Sterile Processing and Device Reprocessing
- Hand Hygiene
- Personal Protective Equipment
- Environmental Cleaning & Disinfection





Assessment Tool – Hand Hygiene Example

	Question			20
Domain 🖫	ID 🔻	Elements To Be Assessed	Assessment	Notes
Hand Hygiene	020100	Hospital has a competency-based training program for hand hygiene.	6	
		Training is provided to all healthcare personnel, including all ancillary		
		personnel not directly involved in patient care but potentially exposed to		
Hand Hygiene	020101	infectious agents (e.g., food tray handlers, housekeeping, and volunteer		
Hand Hygiene	020102	Training is provided upon hire, prior to provision of care at this hospital.		
Hand Hygiene	020103	Training is provided at least annually.		
		Personnel are required to demonstrate competency with hand hygiene		
Hand Hygiene	020104	following each training.	6)	3
		Hospital maintains current documentation of hand hygiene competency for		
Hand Hygiene	020105	all personnel.		
		Hospital routinely audits (monitors and documents) adherence to hand		1
Hand Hygiene	020200	hygiene.		
Hand Hygiene	020201	Respondent can describe process used for audits.		
Hand Hygiene	020202	Respondent can describe frequency of audits.		1
		Respondent can describe process for improvement when non-adherence is	*	
Hand Hygiene	020203	observed.		0
		Hospital provides feedback from audits to personnel regarding their hand		
Hand Hygiene	020300	hygiene performance.	6)	3
Hand Hygiene	020301	Respondent can describe how feedback is provided.		
Hand Hygiene	020302	Respondent can describe frequency of feedback.		
	TO STATE OF THE PARTY OF	Supplies necessary for adherence to hand hygiene (e.g., soap, water, paper		1
Hand Hygiene	020400	towels, alcohol-based hand rub) are readily accessible in patient care areas.	8	6
		Hand hygiene policies promote preferential use of alcohol-based hand rub		
		(ABHR) over soap and water in most clinical situations.		
		Note: Soap and water should be used when hands are visibly soiled (e.g.,		
		blood, body fluids) and is also preferred after caring for a patient with		
		known or suspected C. difficile or norovirus during an outbreak or if rates		
Hand Hygiene	020500	of C. difficile infection (CDI) in the facility are persistently high.		



ICAR Response Report

Priority -	<u>Domain</u>	Findings	Recommendations for Action & Interventions	References *
		Performs an annual facility risk assessment		
		with IPC plan. Policies and procedures are		
		current and based on evidence. IPC		
		committee meets quarterly and QAPI		
Strength	IPC Program	committee is involved to address concerns.	This is a strength.	
		Routinely audits hand hygiene compliance	PORTO LO PER PARAGRAPA	
		and uses Secret Shoppers. Feedback is		
Strength	Hand Hygiene	provided and shared.	This is a strength.	
			PAPRs are PPE and should be accessible and maintained in a storage area or closed container or cabinet	
		Three powered air purifying respirators	where they can be kept clean, dry, protected from dust, vermin, moisture, humidity extremes, and	
		(PAPRs) are available for use but not	temperature extremes. Recommend to establish process for ensuring PAPRs are charged and quality	Refer to PAPR instructions for
Low	PPE	maintained.	control checks per instructions for use are being followed.	use.
	CAUTI	No annual education for catheter insertion or	(a) 1000 1 100 100 100 100 100 100 100 100	SHEA - Prevent CAUTI, CDC -
Low	Prevention	maintenance.	Consider adding to existing skills day or provide other annual education refresher with documentation.	Prevention of CAUTI
		Checklists for insertion and maintenance are		
		utilized for competency-based training upon		
	CLABSI	hire, annually, and when a central line is in		
Strength	Prevention	use. Auditing and feedback occurs with line.	This is a strength.	
		No CBT performed for safe injection practices.	Many opportunities exist for injections of medications and vaccines by various routes (IM, SQ, IV, ID)	CMS - §485.640(c)(2)(iv-v);
	Injection	No known processes for auditing and	along with use of point of care testing. Consider using CDC's Safe Injection Checklist which could be used	CDC - Injection Safety
High	Safety	feedback of safe injection practices.	for CBT and periodic auditing based on risk assessment.	Checklist
	2	IP unaware of SSI prevention practices that	Recommend to review policies and connect with surgery manager to discuss SSI prevention practices and	
72 724 A-0000	SSI	are part of surgical care improvement	guidelines being followed. This will assist when reviewing SSIs, maintaining survey readiness, performing	CMS - IC Worksheet; SHEA -
Intermediate	Prevention	program.	both IPC and environment of care rounds, and ensure evidenced-based practices are followed.	Prevent SSI, APIC - Guide to OR
		5. 8.6.	Store clean and sterile supplies in a designated area that is separate from other areas and is clean and	
			dry, well-ventilated, and protected from dust, vermin, moisture, humidity extremes, and temperature	
			extremes. Clean items can not be stored with contaminated items. Store supplies at least 18 inches from	
		Mixed storage closet. Items stored together	the ceiling, 2 inches from the outside wall, and at least 8 to 10 inches from the floor. Recommend all	
		were injectables, clean supplies, used PPE, re-	bottom wire racks in clean supply rooms have a plastic cover of some kind on the bottom or a solid	CMS - §485.640(a)(3); CDC -
	Cleaning &	usable housekeeping supplies, and lab	bottom shelf. A solid bottom prevents contaminants from the floor from reaching the contents on the cart	Disinfection and Sterilization
Low	Disinfection	supplies to the ceiling.	and prevents water from touching items on the bottom shelf when mopping.	(page 76)
		Multiple instances of scissors in peel-open	Hinged instruments should be sterilized in an open or unlatched position within the packaging. May use	
	100 100	packages but scissors blades not opened or	racks, stringers, and/or V-shaped pouches designed and intended for sterilization to maintain	CDC - Disinfection and
High	Reprocessing	not fully open.	instruments in their open position according to instructions for use (IFU).	Sterilization (page 75)
	100	Facility can describe timely review of data to	C 27 27 27 27 27 27 27 27 27 27 27 27 27	W 4H 00
Strength	Surveillance	help guide IPC activities.	This is a strength.	
				CDC - Water Management
	Water		Areas that are not in use for extended periods (over 1 week) should have a schedule to be flushed weekly	Program, CMS - QSO-17-30 -
Intermediate	Management	Vacant areas and no flushing of unused lines.	to prevent buildup of microorganisms from stagnation in the plumbing.	Water Systems



Closing Thoughts



Social Media



Follow us on Facebook at https://www.facebook.com/nebraska.icap.asap



Follow us on LinkedIn at https://www.linkedin.com/company/nebraska-icap-asap



Now on Instagram! Follow us at https://www.instagram.com/nebraska-icap-asap/



Subscribe to our YouTube at: https://www.youtube.com/@nebraska_icap_asap



ICAP Contact Info

Main Number Call 402-552-2881

Office Hours are Monday – Friday

8:00 AM - 4:00 PM Central Time

Weekends and Holidays 8:00-4:00

On-call hours are available for emergencies only

Scan the QR Code to be taken to our **NE ICAP Contact Form**.

You can request to be connected to an Infection Preventionist that specializes in your area, get added to our setting specific communication list

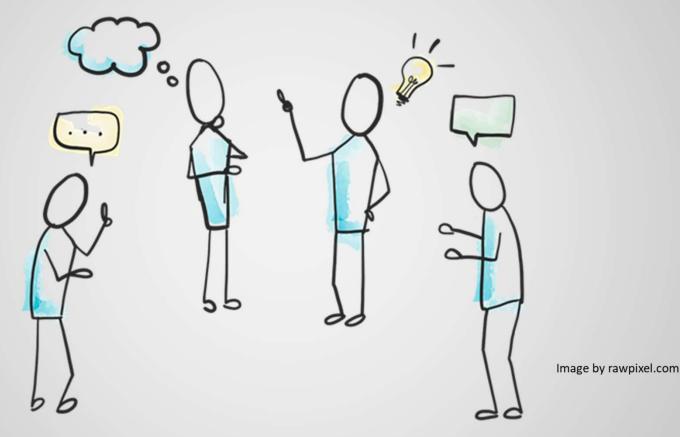
for webinar and training invites, sign up for newsletters and reminders, or request an ICAR review for your facility.







Infection prevention and control is a team effort. Thank you!



Please feel free to contact us for any questions now or in the future.

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