Infection Prevention Support

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Our Team Can Help

- 1. Assess Facility Preparedness
- 2. Distance Consultation
- 3. Improve Staff Knowledge
- 4. Resources

- Developed in partnership with CDC's Project Firstline
- Targeted to Infection Preventionists in small, rural, and critical access settings

SLICE Self-Led Infection Control Evaluation

Educational Resources

IP Support

Virtual Reality

Distance Consultation Needs Assessment



Assess Facility Preparedness

SLICE- Self-Led Infection Control Evaluation

- COVID-19 pandemic highlighted challenges and urgent needs for rural IPC programs
 - Need for IPC resources
 - Need for easily accessible, affordable assistance to identify and mitigate gaps
- Created to empower IPs to evaluate and strengthen their IPC programs using a standardized tool



What is SLICE?

- Online, self-assessment tool comprised of:
 - 14 IPC-targeted domains
 - Summary reports with immediate results
 - Vetted resources for program improvement
- Assesses IPC programs via standardized criteria based on:
 - Current guidelines
 - Regulatory requirements
 - Professional organization recommendations
 - Best practice literature



SLICE Process

Register and log into SLICE web-based assessment account



Select <u>one</u> or <u>multiple</u>

IPC-specific domains

from the <u>14</u> available

to complete



Dynamic assessments add more detailed questions based on responses.



Export <u>summary</u> report to share with hospital staff and administration.



Provision of resources to assist in **gap mitigation** and **quality improvement**.



Upon domain completion a summary report highlighting areas of opportunity is provided.



SLICE Domains & Core Elements

SLICE Domains			
Infection Prevention & Control Program	Transmission-based & Standard Precautions		
Hand Hygiene	PPE		
Surveillance	CAUTI		
Injection Safety	CLABSI		
Environment of Care	VAE		
Environmental Cleaning	SSI		
Device Reprocessing	Clostridioides difficile		

SLICE Core Elements for Evaluation:

- OrganizationalStructure
- Leadership Support
- Policy & Procedure
- Education and Training
- Audit and Feedback
- General Practice



SLICE Snapshots

Reprocessing Failure

Question: 69 - Does the hospital have a protocol for device reprocessing failure events?

User Points: 0 Possible Points: 1 Scoring Type: Point for Preferred

User Question Response:

- [] Yes Not Scored
- [x] No Negative
- [] Unsure Negative

Question Guidance:

Free Access: Guidelines

DR.1.44.I - Rutala, W.A., Weber, D.L., and the Healthcare Infection Control Practices Advisory Committee. Guideline for disinfection and sterilization in healthcare facilities, 2008. https://www.cdc.gov/infectioncontrol/guidelines/disinfection/index.html Recommendation(s): 16.e., 16.f., 16.g., 19.h

Purchase Required: Standards

DR.1.4.f - Association for the Advancement of Medical Instrumentation. (2017). ANSI/AAMI ST 79: 2017: Comprehensive guide to steam sterilization and sterility assurance in health care facilities. Arlington, VA: AAMI. https://store.aami.org/s/store#/store/browse/detail/a152E00000A7DU5QAN Section(s): Table 4 Potential causes to be investigated for steam sterilization process failures. Figure 10: Decision tree for conducting investigations of steam sterilization process failures.

Question: 71a - Are investigations performed in reprocessing failure events?

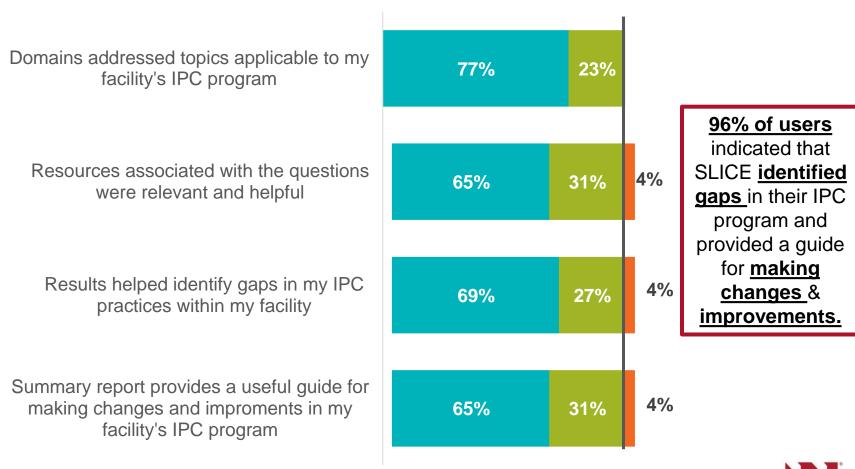
User Points: 0 Possible Points: 1 Scoring Type: Point for Preferred

User Question Response:



What other IPs are saying

IP Views of Domains, Resources, & Results





Future Directions

- •SLICE will follow a continuous review and improvement process
- •Expand SLICE utilization across U.S. and facility types
- More robust scoring algorithms to provide improved and more complex assessment ability.
- •Expansive resource repository development to include templates, checklists, educational resources that are currently unavailable or absent and state-based resources identification.



Distance Consultation Purpose

- Develop a service to support Infection
 Preventionists in small, rural, and critical
 access acute care settings who have taken
 SLICE.
- Will utilize technology to provide expanded access to IPC subject matter experts to facilitate gap mitigation and program improvement.
- Needs determined by SLICE scores



Distance Consultation In Pilot

Provide remote support to IPs	Develop a technological solution to support IPs
Non-punitive	We are here to help!
Collaborative	Determine needs together
Help IPs tackle problems and mitigate gaps	What issues can be addressed virtually?



Consultation Feedback



Experience with SLICE

Ease of use

Program support – especially for new IPs

Interactive with consultants

Results specific to needs of institution

Complete at own pace

Realtime feedback



Why SLICE?

Part 1:

- Slice Tool
 - Evaluate program
 - Provide resources and source of truth
 - Identify gaps
 - Can reevaluate problem areas by retaking assessments



Sample of Results

Surveillance	Retake Assessment	65%	83%
Clostridioides difficile Infection (CDI)	Retake Assessment	57%	67%
Ventilator-associated Event (VAE)		0%	72%
Surveillance	Retake Assessment	49%	83%
Surgical Site Infection (SSI)	Retake Assessment	79%	74%
Standard & Transmission-Based Precautions	Retake Assessment	85%	86%
Personal Protective Equipment (PPE)	Retake Assessment	84%	85%
Injection Safety	Retake Assessment	14%	80%
Infection Prevention & Control Program	Retake Assessment	65%	82%



Summary Report

Results



Core Element Summary

Core Element	Score	Questions Answered	User Points Total	Possible Points Total
Policy & Procedure	0%	1	0	1
Safe Device and Injury Prevention Program	33%	3	1	3
Drug diversion	0%	1	0	1
Education & Training	0%	1	0	1
Audit & Feedback	0%	1	0	1

For The Scoring Rationale Please Refer To The Scoring Criteria Section Below

Policy & Procedure

Question: 1a - Does the hospital have policies and standard operating procedures addressing safe injection practices?

User Points: 0 Possible Points: 1 Scoring Type: Point for Preferred

User Question Response:

- [] Yes Not Scored
- [x] No Negative
- [] Unsure Negative

Question Guidance:

Free Access: Regulatory

IS.1.12 - National Archives and Records Administration. (2021, December 21.) Codeof Federal Regulations. Part 482-Conditions of Participation for Hospitals. https://www.ecfr.gov/current/title-42/chapter-IV/subchapter-G/part-482 Section: §482.42(a)(1) N

Use of Results

Educational purposes

- Policy development
- Preparation for regulatory visit
- Resources



Consultation: Phase 2

Virtual and in-person

Huge benefit in talking with the team and reviewing results

Reviewed assessment and findings:

Opened up a window to gaps and further opportunities



Overall Experience

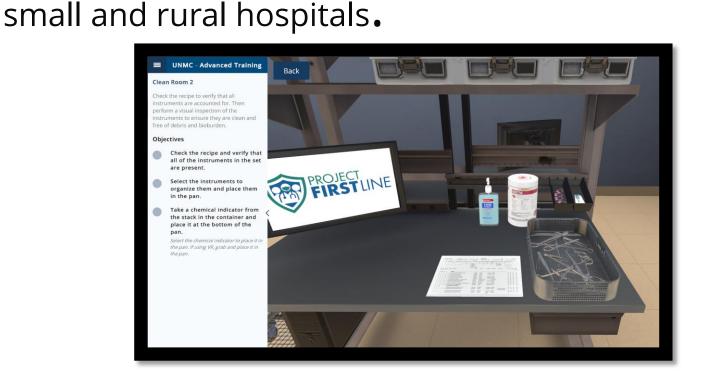




Improve Staff Knowledge

XR

Education
extended reality (XR) technologies targeted to
address specific gaps in infection control practices in

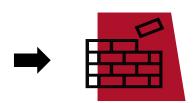




XR Education Development Process



Identify IPC education & training gaps



Novice module development, pilot and expansion



XR Education Pilot 2:

- Novice modules
- Intermediate module
- Advanced module





Multidisciplinary and Subject Matter Expert Review







Validated Training Platform

Participants agreed that the training:

- Clear & easy to understand
- Increased understanding of the IPs role in the sterile processing department
- Will help improve IPC practices in the sterile processing department



Modalities



Virtual Reality
Headset preferred
by most users



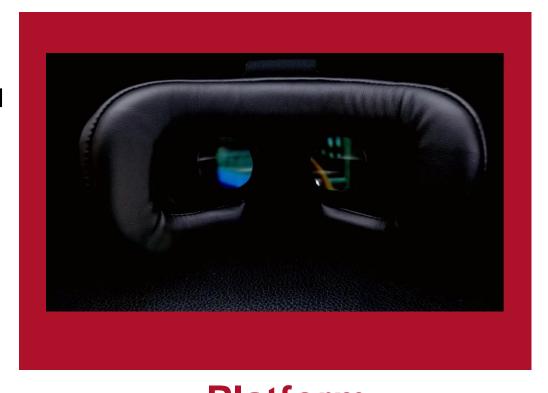
Laptop & Desktop



Phone



Tablet



Platform
Heizenrader: EducationXR



XR Education



"I previously worked in surgery and sterile processing, so I know a good amount of information, but teaching a new IP has been incredibly difficult. They have a limited frame of reference. It is also difficult to understand what the regulations say vs what

IPC Field Experience				
Less than 1 year	1-5 years	More than 5 years		
33%	45%	22%		

- 78% reported ≤50% of their time is dedicated to IPC role
- 72% reported that they <u>do not have</u> <u>enough access</u> to training materials and content needed to excel at IPC in their facility
- 89% of participants had <u>no headset</u>
 <u>experience</u> prior to completing the modules

100% of participants would recommend that other IPs take the IPC XR Education modules.



More to come!

Additional resources are being developed

- 90-day Survival Guide
- Al chat-bot
- Educational Webinars
- Change management approaches



Contact Us!

For more information scan the QR code or click this link to fill out the form.



To go directly to SLICE and register, click this SLICE link.

To learn more about all of our programs, click this link IPC Support Center | UNMC (innovateipc.org)



Questions



