



Barley Chironda RPN, MSc

SHEA Spring 2025 Highlights

Disclosure

I am an employee of Clorox Healthcare.

The slides and material provided do not represent Clorox Healthcare at all.

Agenda



Methodology













Emerging pathogens



Resources





ASP



CLABSI





Disinfection









Resources

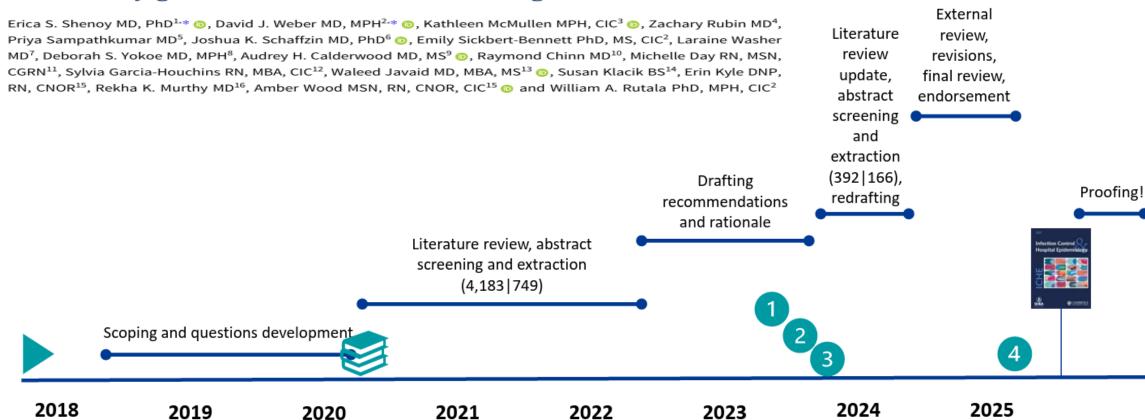






SHEA Expert Guidance

Multisociety guidance for sterilization and high-level disinfection



Shenoy ES, Weber DJ, McMullen K, et al. Multisociety guidance for sterilization and high-level disinfection. *Infection Control & Hospital Epidemiology*. Published online 2025:1-23. doi:10.1017/ice.2025.41

Key Recommendations:

Point of Use	 Apply treatment promptly to prevent soil drying use moisture retention products if delays occur. 		
Prep and Transport	 Clean devices thoroughly at the processing location, transport contaminated devices in closed, rigid containers. 		
Monitoring	 Use physical, chemical, and biological indicators to monitor sterilization effectiveness. Investigate and address sterilization failures promptly. 		
Lumens	 Ensure germicide flows through lumened devices. Dry devices thoroughly after HLD to prevent microbial growth. 		
Miscellaneous	 Use water-soluble lubricants and defoaming agents as per MIFU and Automated processing is preferred over manual HLD. 		
Tracking	 Use electronic tracking for device maintenance. Perform risk assessments to identify high-risk devices for patient-level tracking. 		
Implementation • Educate, train, and assess competency of healthcare personnel involved is sterilization and HLD.			
Postmortem	• Review common failures and implement best practices to reduce risks.		
IFU	 Follow IFU for cleaning, sterilization, or disinfection and address conflicts between device and accessory MIFUs by contacting manufacturers. 		

Shenoy ES, Weber DJ, McMullen K, et al. Mult society guidance for sterilization and high-level disinfection. *Infection Control & Hospital Epidemiology*. Published online 2025:1-23. doi:10.1017/ice.2025.41

Pitching Antimicrobial Stewardship to the C-Suite

George E. Nelson, MD

Division of Infectious Diseases Vanderbilt University Medical Center

Frame the Proposal

- Any similar, successful proposals to follow?
- What does the C-suite respond to?
 - · Peer pressure
 - · Patient safety event
 - Regulations
 - · Something else?
- Respond both to request at hand as well as trajectory
 - Will have different needs at different program stages
 - Tools @ PMID: 37735012

Slide - Description	Business Focus	
1 – Introduction	Company name, logo, tagline	
2 – Problem	Define issue product/service solves	
3 – Solution	How product solves problem, pain points, provides value	
4 – Market Opportunity	Size, growth potential, market trends/demand	
5 – Business Model	Revenue model, partnerships, distribution, pricing	_
		-

Slide - Description	Business Focus
6 – Competitive Analysis	Main competitors, SWOT, your unique advantage
7 – Go-to-Market	Marketing, sales strategy
8 – Team	Key members, achievements, expertise
9 – Results/Traction	Revenue, expenses, profit, projections, and milestones
10 – Capital	How much? For what?
Extra – Info only	Formalized prospectus, company materials, etc.

Summary of ASP



- Comparative provider antibiotic prescribing feedback is an important stewardship tool, especially in the outpatient setting.
- Prospective audit and feedback and prior authorization both work.
- Computerized provider order entry prompts (+ education + feedback) reduced empiric extendedspectrum days of therapy in those with pneumonia and UTI compared to routine ASP (INSPIRE.)
- Antibiotic opt-out protocol that targeted patients with suspected sepsis resulted in more antibiotic discontinuations and no evidence of harm.

Sustainability

Scope 1: Direct Emissions

Scope 2: Indirect Emissions from Purchased Energy

Scope 3: Indirect Emissions from the Value Chain



W	Waste	
Ε	Energy	3 (
Α	Anesthetic gasses,	9
•	Agriculture/Food	6
С	Chemicals, Pharmaceuticals, and	
	Medical supplies	
Т	Transportation	Providenc





Mahmood Bhutta, FRCS DPhil Presenter Brighton & Sussex Medical School (UK)

Speaker



Shira Abeles, MD Presenter University of California, San Diego

Speaker



Preeti Jaggi, MD Presenter Emory University

Sustainability



• Infection rate 0.21% (Zafar etal Opthalmology 2023)



• Infection rate 0.02-0.15% Ravindran et al. J Cataract Refract Surg 2009
Lalitha etal Ind J of Opthalmology 2017
Haripiya et al. J Cataract Refract Surg 2019

Images Care of Barbara Erny, MD, EyeSustain.org

UC San Diego Health





IV to po conversion

Speaker



Mahmood Bhutta, FRCS DPhil Presenter Brighton & Sussex Medical School (UK)

Speaker



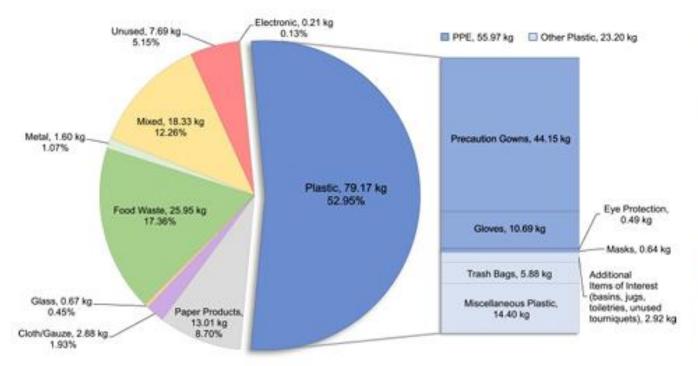
Shira Abeles, MD Presenter University of California, San Diego

Speaker



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Case Study #1: Contact Precautions and Isolation Gowns

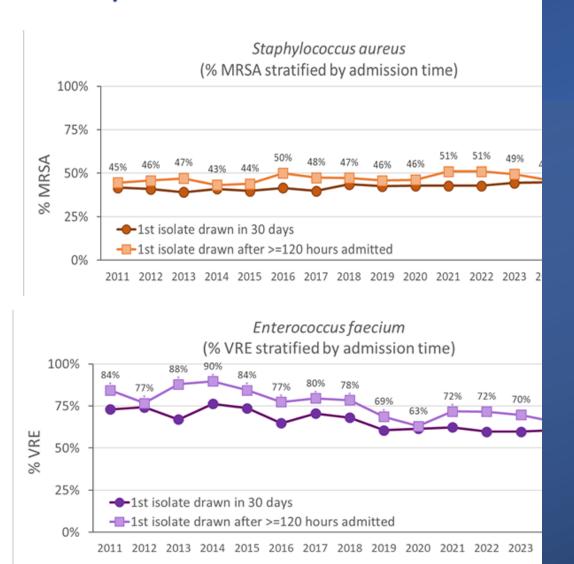




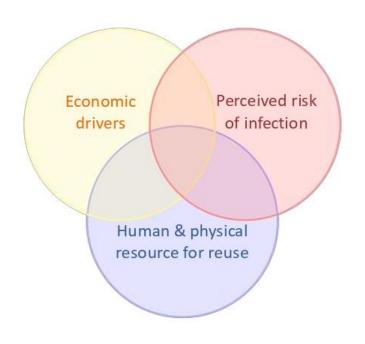
- Gowns ~44 kg/unit/day ~17.6 tons of plastic per unit per year
- PPE ~56kg/unit/day ~22.5 tons of plastic per unit per year

Contact Precautions – UCSD Health Experience

- 2015 DC'd MRSA, VRE isolation
 - No statistical change in % MRSA of all Staph aureus, or % VRE of all E faecium in antibiogram data, aligns with outcome studies looking at HAIs
- 2019 DC'd ESBL isolation
 - Antibiogram data less well defined, in progress
- Even with these interventions ~850,000 gowns per year
 - 44 tons of plastic waste in 2023
- How can we do better?
 - Why are we gowning for COVID-19?
 - Can we use launderable gowns?



Sustainability



2%

Once daily c	eftriaxone	Four d	oses	ampi	cillin
Pharmacy Prep time			*	1	*
Nursing Time					
Plastic syringes to administer	<i>E</i> CLUİ ^M	par little	attit	duit	attit
Plastic flush	Jak .	S. C. C.	ACCEPT 1	Cit	Cit.
EVS workload	â		â	â	

YELLOW WASHING

Speaker



Mahmood Bhutta, FRCS DPhil Presenter Brighton & Sussex Medical School (UK)

Speaker



Shira Abeles, MD
Presenter
University of California, San Diego

Speaker



Preeti Jaggi, MD Presenter Emory University



Medical and clinical directors of sustainability

How many MDS/CDS are there?

- 21 MDS in the U.S.
- 2 MDS in Canada

Who do MDS/CDS report to?

- President
- Vice President
- Chief Officer

What is the dedicated capacity for MDS/CDS?

- Range from 0.075 to 0.6 FTE
- Some serve as volunteers

What specialties do MDS/CDS bring?

Wide-ranging



Northwell Health















UMassMemorial











Special Pathogens

National Special Pathogen System: The Tiered System of Care



Level 1

Level 1 facilities, or Regional Emerging Special Pathogen Treatment Centers (RESPTCs), are regional resources hubs which provide highly specialized care. Level 1s care for patients for their duration of illness.

Level 2

Level 2 facilities, or Special Pathogen Treatment Centers (SPTCs), have the capacity to deliver specialized care to clusters of patients and serve as primary patient care delivery centers. *Level 2s can care for patients for their duration of illness.*

Level 3

Level 3 facilities, or Assessment Centers, are widely accessible care delivery facilities, able to conduct limited basic laboratory testing, stabilize patients, and coordinate rapid patient transfer. *Level 3s can care for patients for 12-36 hours*.

Level 4

Level 4 facilities, or All Other Healthcare Facilities, can identify, isolate, inform, & initiate stabilizing medical care; protect staff; and arrange timely patient transport to minimize impact to normal facility operations.

Additional partners, such as EMS and public health, are essential for the coordination of the System

Speaker



 $\textbf{Angela Hewlett}, \, \mathsf{MD;MS}$

Presenter

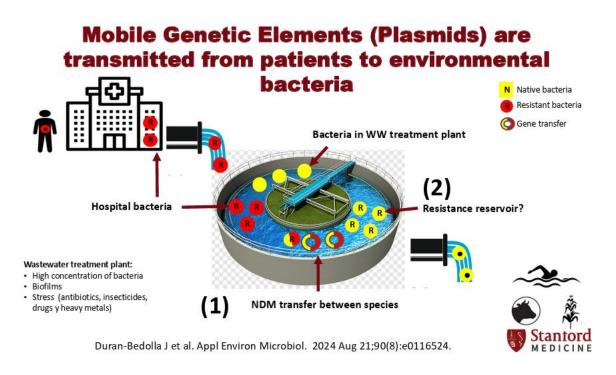
University of Nebraska Medical Center



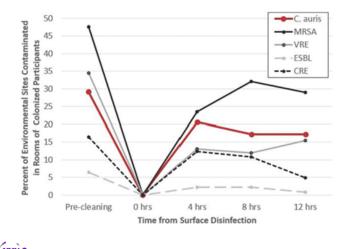
Level 1 Facilities: Regional Emerging Special Pathogen Treatment Centers (RESPTCs)



Infection Control Considerations for Resistant and Emerging Pathogens



Contamination Within 4 Hours



Room Surfaces Cultured:

- 1. Bed Handrail
- 2. Remote/Call Button
- 3. Nightstand
- 4. Foot Board
- 5. Overbed Table

NYU Langone Health

NYU Grossman School of Medici

Sansom SE et al. Clin Infect Dis 2023

Speaker

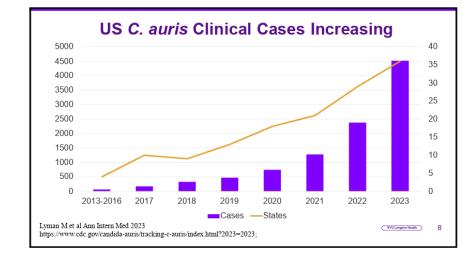


Jorge Salinas, MD Presenter Stanford University

Speaker

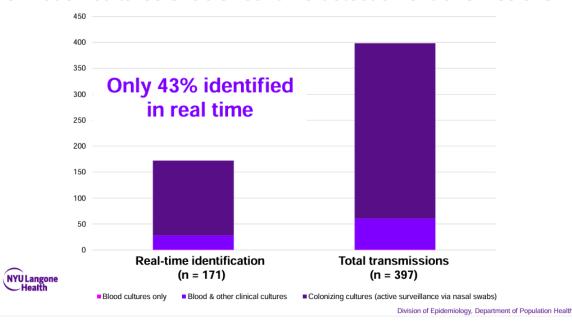


Dana Mazo, MD, MSc Presenter NYU Langone Health

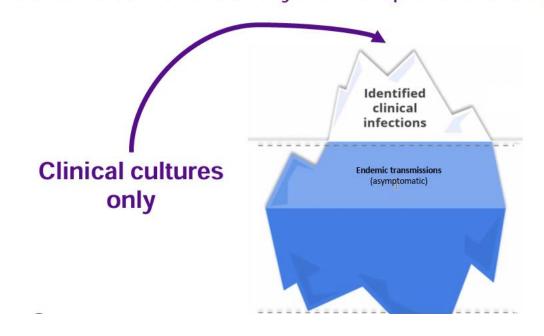


Real-time detection of Staphylococcus aureus transmission in hospitals

Colonization cultures enable real-time detection of transmissions



Genomic surveillance: beyond the tip of the iceberg



Speakers



Kristine Rabii, CIC, MSc. Presenter
NYU Langone Health

Whole Genome Sequencing (WGS) is a powerful tool for infection prevention. By analyzing the complete DNA sequence of pathogens, WGS helps identify and track the spread of infectious agents within healthcare setting

Blood Culture



Studies Focused on Improving Blood Culture Indications (US studies only)

Author(Year)	Setting	Intervention	Results
Pawlowicz (2016)	Adult ED, single center	Criteria for ordering: immunocompromised status, hemodynamic instability, one major (suspected IE, temp. 239.4°C, or presence of indwelling vascular catheter) or two minor (temp. 38.3 to 39.3°C, age of >64 years, chills/rigors, vomiting, systolic BP <90 mm Hg, WBC	33% reduction in BCU
		>18,000/mm³, bands of >5%, platelets <150,000/µL, and/or cre >2.0 mg/dL) Shapiro criteria	
Fabre (2020)	Adult medical ICU and medical	Implementation of an evidence-based algorithm based on probability of bacteremia of common	BCU reduction: 18%in MICU; 30% in M-
	wards, single center Exclusion: ANC <500 cells/μL	clinical scenarios	wards, increase in BCx positivity
Woods-Hill	Pediatric ICU, multicenter	Implementation of BCx algorithm focused on BCx utilization in non-septic patients	33% reduction in BCU
(2022)			36% reduction in CLABSI
			13% reduction in broad-spectrum abx use
Robinson	Adult hem-on service with febrile	Pilot implementation of local febrile neutropenia guideline recommending no additional BCx	53% reduction in BCx use after day 3 of
(2022)	neutropenia, single center	after day 3 of persistent febrile neutropenia with exceptions (new hemodynamic instability,	febrile neutropenia
	Exclusion: HSCT	prior positive BCx, infectious diseases recommendation)	
Seidelman	Adult surgical ICUs (trauma and	Implemented adapted version of BCx algorithm by Fabre et al*.	25%-45% reduction in BCU
(2024)	cardiothoracic), single center		No difference in abx use, LOS or mortality
	Exclusion: neutropenia or		
	recipients of a heart or lung Tx		
Theophanous	Adult ED, single center	Implemented adapted version of BCx algorithm by Fabre et al*.	16% reduction in BCU, increase in positivity
(2024)	Exclusion: Heart and lung		No difference in abx use, 30-day ED or
	transplant		hospital readmission
Wang (2024)	Adult medical and surgical ICU,	Implemented BCx algorithm by Fabre et al*.	20% reduction in BCU
	single center		4% decrease in antimicrobial days of therapy
Klontz (2024)	Hospital wide, single center	Implemented BCx algorithm by Fabre et al*.	40% reduction in BCU

BCU: blood culture utilization

*Fabre et al. Does This Patient Need Blood Cultures? A Scoping Review of Indications for Blood Cultures in Adult Nonneutropenic Inpatients. Clin Infect Dis

Speaker



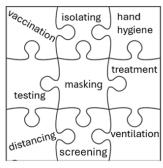
Valeria NA Fabre, MD
Presenter
Johns Hopkins University School of Medicine

Khare et al. Active Monitoring and Feedback to Improve Blood Culture Fill Volumes and Positivity Across a Large Integrated Health System, Clin Infect Dis 2020, 70 (2)

Universal Masking HCW and Visitors

In summary

- Observational data provides support for universal masking of healthcare workers + visitors (source control) as a strategy to decrease risk for transmission of RVI in the inpatient setting.
- Accounting for the epidemiology of respiratory viruses, year-round masking offers greater advantage than seasonal masking.
- Universal masking is imperfect:
 - · Drawbacks acknowledged
 - Reliant on proper use and fit
 - But a piece of the puzzle



Speaker



Lynne Strasfeld, MD Presenter Oregon Health and Science University

Speaker



Mini Kamboj, MD Presenter Memorial Sloan Kettering Cancer Center Available online at www.sciencedirect.com

Journal of Hospital Infection



journal homepage: www.elsevierhealth.com/journals/jhi



Clinical Infectious Diseases







Contents lists available at ScienceDirect

The Journal of Climate Change and Health

journal homepage: www.elsevier.com/joclim



Disinfection of gloved hands for multiple activities with indicated glove use on the same patient

G. Kampf a,b,*, S. Lemmen c

- ^a Knieler und Team GmbH, Infection Control Science, Hamburg, Germany
- University Medicine Greifswald, Institute for Hygiene and Environmental Medicine, Greifswald, Germany University Hospital Aachen, Department of Infection Control and Infectious Diseases, Aachen, Germani

Effect of Glove Decontamination on Bacterial Contamination of Healthcare Personnel Hands

Zogbeh Kpadeh-Rogors, 1 Gwen L. Robinson, 2 Halsoma Alsorehi, 2 Daniel J. Morgan, 2 Anthony D. Harris, 2 Natalia Blanco Horrorn, 2 Laura J. Rose, 3 Judith Noble-Wang, J. Kristie Johnson, 12 and Surbhi Leekha?; for the CDC Prevention Epicenters Program

Department of Pathology, and "Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, and "Division of Healthcare Custiny Provident, Rational Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia

We examined the effect of glove decontamination prior to removal on bacterial contamination of healthcare personnel hands in a laboratory simulation study. Glove decontamination reduced bacterial contamination of hands following removal. However, hand contamination still occurred with all decontamination methods, reinforcing the need for hand hygiene following glove removal. Keywords. personal protective equipment; transmission; hand hygiene and gloves.



The plastic pandemic: Quantification of waste on an inpatient medicine unit



Christian Mewaldt^a, Wynne Armand^{a,b}, Jonathan Slutzman^{b,c}, Jonathan Eisen^{a,b,*}

Recap

- Gloves are an essential protection measure for patients and HCWs and help reduce infections, but: we need to stick to evidence:
 - Wear gloves only as indicated (MDROs, gram-negative, C. auris, high-consequence pathogens)
 - Reconsider CPs for MRSA
 - Do not use them when there is no indication (SC or IM injections, feeding the patient, writing notes)
- The inappropriate use of gloves, beyond their low economic cost at an individual level, has consequences on patient care and the environment, a fact that we should not be oblivious to.

Speaker



Emily Sickbert-Bennett Vavalle, PHD;CIC Presenter **UNC Health**

Speaker



Elizabeth Monsees, PhD, RN, CIC, FSHEA, FAAN Presenter Children's Mercy Hospital



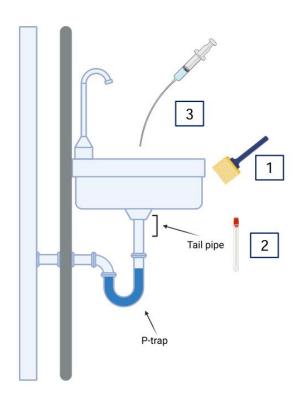
Diana Vilar-Compte, MD; MSc Presenter Instituto Nacional De Cancerologia

Gloves Reuse and Decontamination

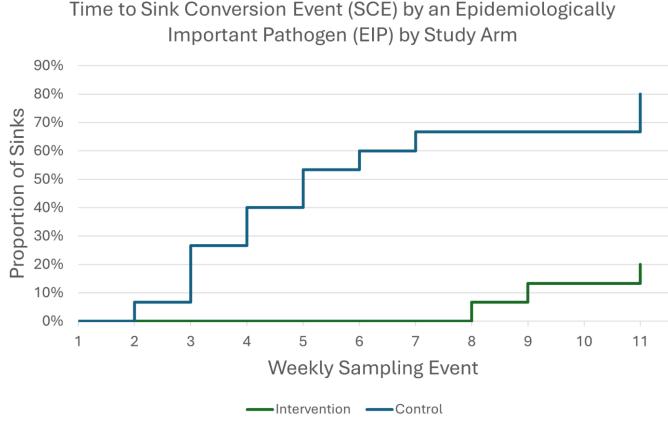
Sinks

Efficacy of a Foamed Disinfectant in Reducing Pathogen Contamination in Renovated Inpatient In-Room Sinks: A Randomized Controlled Trial

Bobby G. Warren, Amanda M. Graves, Guerbine Fils-Aime, Aaron Barrett, Isadora Mamikunian, Becky A. Smith, Deverick J. Anderson









Bobby Warren, MPS
Presenter
Duke Center for Antimicrobial Stewardship and Infection Prevention

Upcoming Conferences

IDWeek 2025
October 19-22, 2025
Washington, DC

Spring 2026

SHEA Spring 2027
Washington, DC

Spring 2026

Spring 2026

Spring 2026

April 7-10, 2026
Chicago, IL

