

Disclosure

I am an employee of Clorox Healthcare.

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

Agenda











Gloves





Emerging pathogens



Resources



Themes

ASP

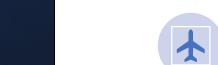


CLABSI





Disinfection











Resources

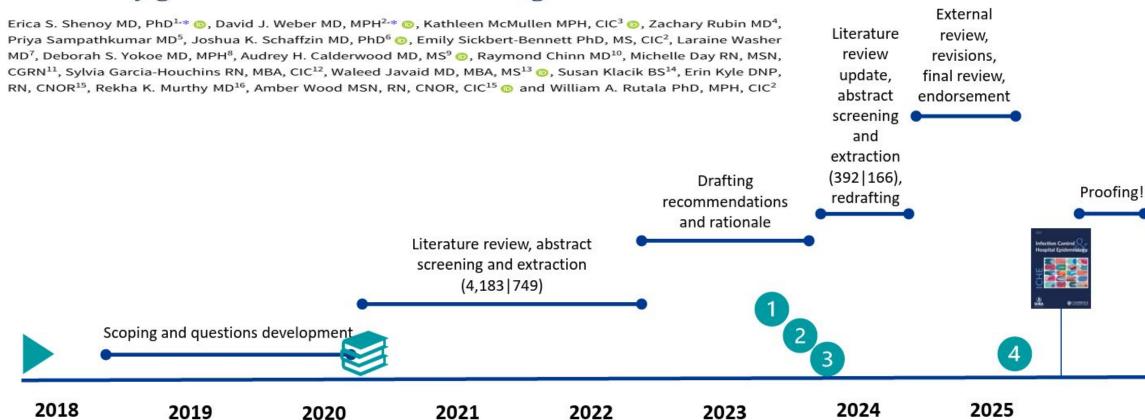






SHEA Expert Guidance

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

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 in 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

Business Focus
Company name, logo, tagline
Define issue product/service solves
How product solves problem, pain points, provides value
Size, growth potential, market trends/demand
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.



- 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 extended-spectrum 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.

Scope 1: Direct Emissions

Scope 2: Indirect Emissions from Purchased Energy

Scope 3: Indirect Emissions from the Value Chain



W	Waste	
E	Energy	
Α	Anesthetic gasses,	
	Agriculture/Food	110
C	Chemicals, Pharmaceuticals, and	
	Medical supplies	
T	Transportation	Providence
	- Д	

Speaker



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

Speaker



Shira Abeles, MD Presenter University of California, San Diego

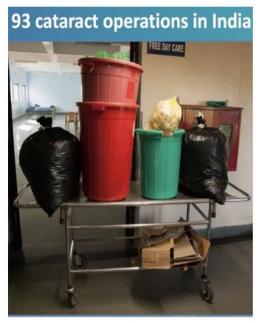
Speaker



Preeti Jaggi, MD Presenter Emory University



• 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



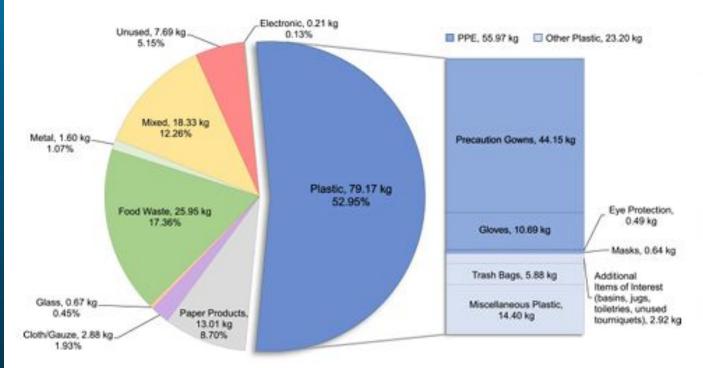
Shira Abeles, MD Presenter University of California, San Diego

Speaker



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Case Study #1: Contact Precautions and Isolation Gowns

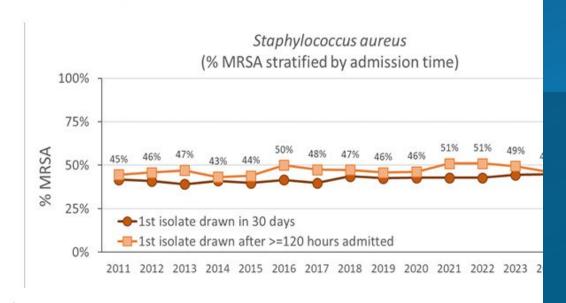


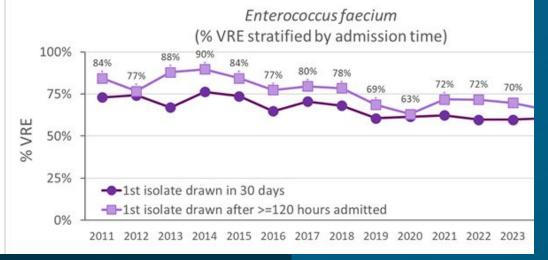


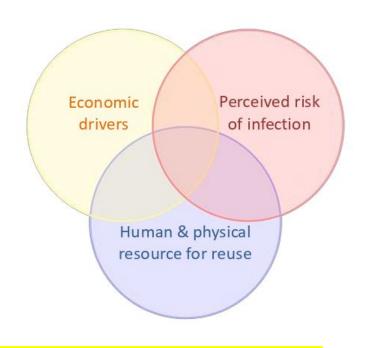
- Gowns ~44 kg/unit/day ~17.6 tons of plastic per unit per year
- PPE ~56kg/unit/day ~22.5 tons of plastic per unit per year

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?







2%

Once daily c	eftriaxone	Four d	oses	ampi	cillin
Pharmacy Prep time	*	10	10	*	*
Nursing Time			<u>D</u>		
Plastic syringes to administer	SCILL	dut	ELLIP	attit	ACCEPT
Plastic flush	A	Kith			Car.
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

iting infection.®



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



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



Angela Hewlett, MD;MS

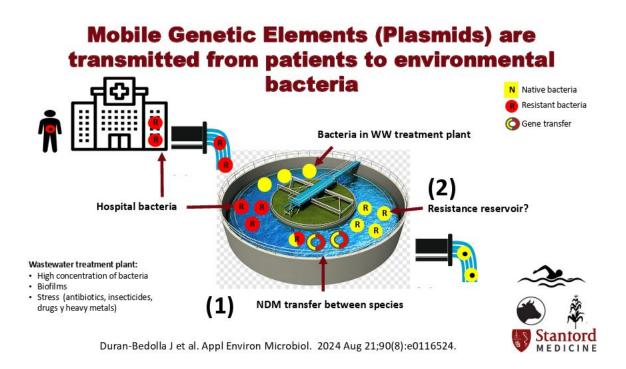
Presenter

University of Nebraska Medical Center

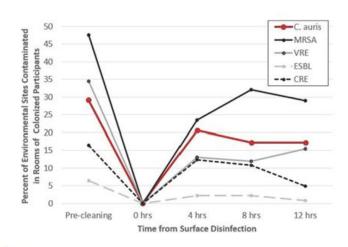


Level 1 Facilities: Regional Emerging Special Pathogen Treatment Centers (RESPTCs)





Contamination Within 4 Hours



Room Surfaces Cultured:

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

NYU Grossman

Sansom SE et al, Clin Infect Dis 2023

NYU Langone Health

School of Medicine

Speaker

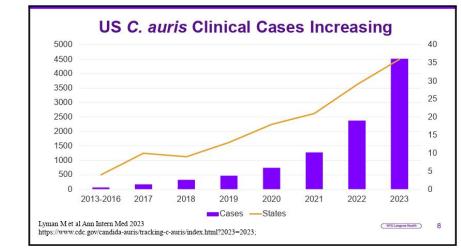


Jorge Salinas, MD Presenter Stanford University

Speaker

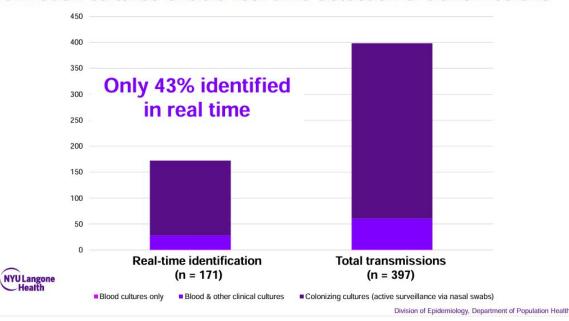


Dana Mazo, MD, MSc Presenter NYU Langone Health

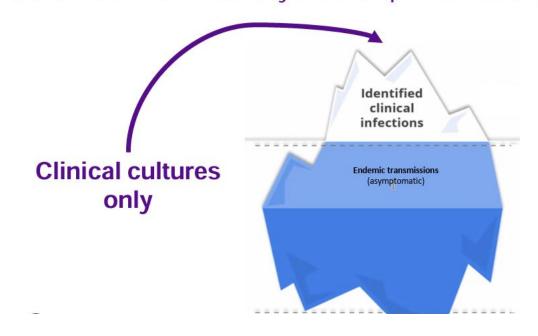


Real-time detection of Staphylococcus aureus transmission in hospitals

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



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

Author(Year)	Setting	Intervention	Results
Pawlowicz 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 >18,000/mm³, bands of >5%, platelets <150,000/µL, and/or cre >2.0 mg/dL) Shapiro criteria		33% reduction in BCU	
Fabre (2020)	Adult medical ICU and medical wards, single center Exclusion: ANC <500 cells/μL	Implementation of an evidence-based algorithm based on probability of bacteremia of common clinical scenarios	BCU reduction: 18% in MICU; 30% in M- wards, increase in BCx positivity
Woods-Hill (2022)	Pediatric ICU, multicenter	Implementation of BCx algorithm focused on BCx utilization in non-septic patients	33% reduction in BCU 36% reduction in CLABSI 13% reduction in broad-spectrum abx use
Robinson (2022)	Adult hem-on service with febrile neutropenia, single center Exclusion: HSCT	Pilot implementation of local febrile neutropenia guideline recommending no additional BCx after day 3 of persistent febrile neutropenia with exceptions (new hemodynamic instability, prior positive BCx, infectious diseases recommendation)	53% reduction in BCx use after day 3 of febrile neutropenia
Seidelman (2024)	Adult surgical ICUs (trauma and cardiothoracic), single center Exclusion: neutropenia or recipients of a heart or lung Tx	Implemented adapted version of BCx algorithm by Fabre et al*.	25%-45% reduction in BCU No difference in abx use, LOS or mortality
Theophanous (2024)	Adult ED, single center Exclusion: Heart and lung transplant	Implemented adapted version of BCx algorithm by Fabre et al*.	16% reduction in BCU, increase in positivity No difference in abx use, 30-day ED or hospital readmission
Wang (2024)	Adult medical and surgical ICU, single center	Implemented BCx algorithm by Fabre et al*.	20% reduction in BCU 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

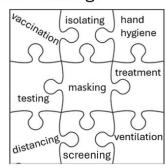
Speaker



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

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/jhir











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, a, 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-Rogers, Gwen L. Robinson, Halcoma Alserehi, Daniel J. Morgan, Anthony D. Harris, Natalia Blanco Horrera, Laura J. Rose, 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 Promotion, National Center for Emerging and Zoononic Infectious Dissesses, 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

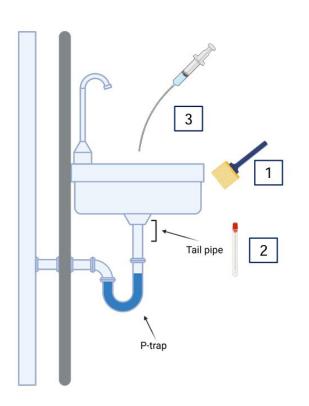


Diana Vilar-Compte, MD:MSc Presenter Instituto Nacional De Cancerologia

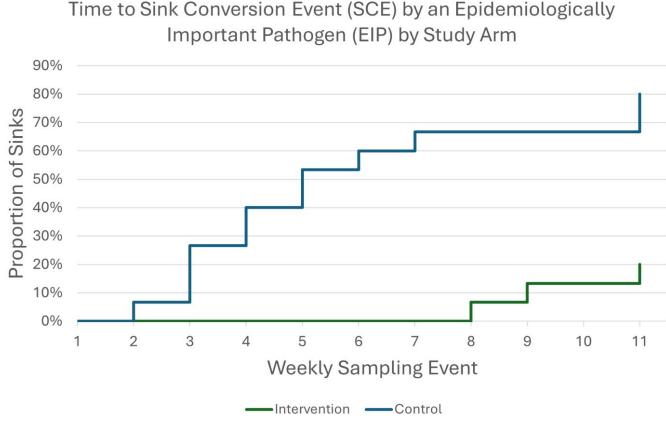
Gloves Reuse and Decontamination

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



