

2022



STRONGER

vizient. CONNECTIONS SUMMIT

Sept. 19–21, 2022

#vizientsummit



Advancing Antimicrobial Stewardship for the Future

Joseph Reilly, PharmD, Pharmacist, AtlantiCare Regional Medical Center, Pomona, NJ



Nick Bennett, PharmD, BCIDP, Manager, Antimicrobial & Diagnostic Advisement Program,

Sarah Boyd, MD, Medical Director, Antimicrobial & Diagnostic Advisement Program

Saint Luke's Health System, Kansas City, MO



Cindy (Mei Xian) Hsieh, PharmD, BCPS, BCIDP, Clinical Pharmacy Specialist-Infectious Diseases

Alta Hospitals System, Los Angeles, CA

Sehjan Bhura, PharmD, Chief Pharmacy Officer, Prospect Medical, Los Angeles, CA

Disclosure of Financial Relationships

Vizient, Inc., Jointly Accredited for Interprofessional Continuing Education, defines companies to be ineligible as those whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

An individual is considered to have a relevant financial relationship if the educational content an individual can control is related to the business lines or products of the ineligible company.

No one in a position to control the content of this educational activity have relevant financial relationships with ineligible companies.

Learning Objectives

- Identify the major pathogens associated with postoperative orthopedic surgeries.
- Discuss the methods employed to ensure proper antibiotics are utilized for surgical prophylaxis in orthopedic procedures.
- Outline strategies to engage multidisciplinary and leadership teams in the redeployment of a diagnostic testing application – leveraging the skills and knowledge of the antimicrobial stewardship program and microbiology department.
- Identify the implementation, engagement, and savings of a multi-facility centralized antibiotic stewardship program in a community health system.



Advancing Antimicrobial Stewardship for the Future

Joseph Reilly, PharmD, Pharmacist, AtlantiCare Regional Medical Center, Pomona, NJ



Nick Bennett, PharmD, BCIDP, Manager, Antimicrobial & Diagnostic Advisement Program,

Sarah Boyd, MD, Medical Director, Antimicrobial & Diagnostic Advisement Program

Saint Luke's Health System, Kansas City, MO



Cindy (Mei Xian) Hsieh, PharmD, BCPS, BCIDP, Clinical Pharmacy Specialist-Infectious Diseases

Alta Hospitals System, Los Angeles, CA

Sehjan Bhura, PharmD, Chief Pharmacy Officer, Prospect Medical, Los Angeles, CA

Panel Presenters



Joseph Reilly, PharmD,
BCGP, a-IPC
Residency Program Director,
Clinical Pharmacy Specialist,
AtlantiCare Regional
Medical Center, Pomona, NJ
Joseph.Reilly@atlanticare.org



Nick Bennett, PharmD,
BCIDP, Manager,
Antimicrobial & Diagnostic
Advisement Program, Saint
Luke's Health System,
Kansas City, MO
ntbennett@saint-lukes.org



Sarah Boyd, MD, Medical
Director, Antimicrobial &
Diagnostic Advisement
Program, Saint Luke's Health
System, Kansas City, MO
seboyd@saint-lukes.org



Cindy (Mei Xian) Hsieh,
PharmD, BCPS, BCIDP,
Clinical Pharmacy Specialist-
Infectious Diseases, Alta
Hospitals System, Los
Angeles, CA
meixian.hsieh@altahospitals.com

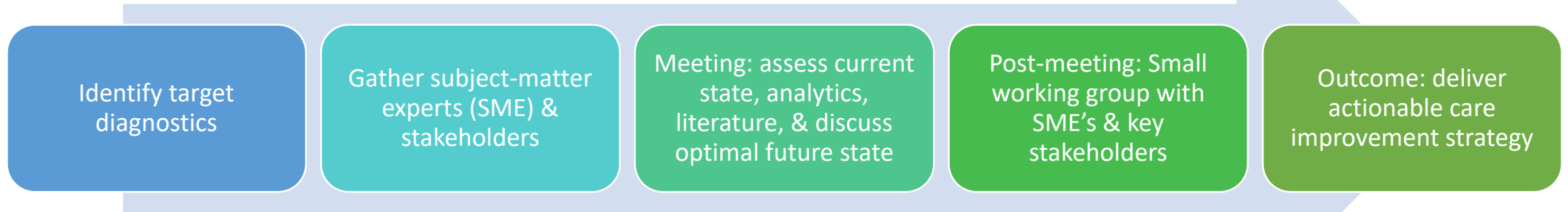


Sehjan Bhura, PharmD,
Chief Pharmacy Officer,
Prospect Medical, Los
Angeles, CA
sehjan.bhura@altahospitals.com

Prevention of Orthopedic Surgical Site Infections with a Modified Antimicrobial Prophylaxis Guideline

- As part of the ARMC Antimicrobial Stewardship Program (ASP), we ensure the appropriate use of prophylactic antibiotics by utilizing a surgical prophylactic antibiotic protocol (SPAP) based on published guidelines and local susceptibility patterns. Post-surgical infections are carefully monitored by the ASP team as a quality measure to ensure the optimal patient outcomes.
- In 2021, a relative increase in gram negative surgical site infections was noted for hip and knee arthroplasty procedures. Suggested antibiotic prophylaxis for these procedures includes cefazolin or vancomycin.
- Modification of our SPAP was warranted to enhance the coverage of the identified pathogens, where the addition of gentamicin or aztreonam were deemed viable options. This initiative resulted in a significant decrease in post-surgical infections.

Diagnostic Certainty: Redeploying Infectious Disease Diagnostics Across a Health System



Test(s)	Strategy	Launch Date	Outcome (2020 vs 2021)
Upper respiratory PCR panel	Use criteria/restrictions	February 2021	66.2% ↓ (\$424,000 savings)
Urine cultures	Urine culture test w/ required indications for use	March 2021	1.3% ↓ inpatient cultures
Gastrointestinal PCR panel	Clinical decision support → GI PCR smart order set	July 2021	51.3% ↓ (\$131,000 savings)
<i>C. difficile</i> PCR	Process change from PCR to 2-step testing (PCR + toxin)	August 2021	7.2% ↑ (however, ↓ <i>C. difficile</i> cases by 84%)
Meningitis/encephalitis PCR panel	Pleocytosis-based reflexive ordering process	July 2022	TBD

Eight Birds, One Stone: Centralizing an ASP within a Multi-Facility Community Health System

Pre-2020: Minimal antimicrobial stewardship resources and oversight

- No established centralized or local ASP leadership/committee
- Minimal antimicrobial stewardship expertise
- Minimal stewardship interventions or protocol implementation
- Lack of ASP outcomes evaluation and education

2022: Centralized multi-system antimicrobial stewardship program

- Lead board-certified antimicrobial stewardship pharmacist
- Three established, license-specific multidisciplinary ASP committees
- Standardized pharmacy-driven antimicrobial stewardship interventions and protocols
- System-wide pharmacy ASP education
- Positive Clinical, Fiscal, and Hospital Administrative Impact

AtlantiCare

 Saint Luke's
HEALTH SYSTEM



Questions?