

ILLINOIS SUMMIT ON ANTIMICROBIAL STEWARDSHIP 2019

**University of Illinois Student Center East
Chicago, IL**

**Thursday, July 18, 2019
8:00 a.m. – 5:00 p.m.**



**COLLEGE
OF PHARMACY
CHICAGO
ROCKFORD**



Funding for this conference was made possible by IDPH and the Centers for Disease Control and Prevention. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services, nor does the mention of trade names, commercial practices or organizations imply endorsement by the U.S. Government.

Learning Objectives

At the conclusion of this course, participants will be able to:

- Summarize the regulatory and national landscape for antimicrobial stewardship
- Apply national guidelines and best practices for implementing and evaluating facility antimicrobial stewardship programs
- Review past antimicrobial stewardship programs and lessons learned
- Identify tools and resources for implementing antimicrobial stewardship programs

Target Audience

Health care professionals including physicians, pharmacists, dentists, nurses, quality directors, infection preventionists, facility leadership, and public health professionals across inpatient, outpatient, and long-term care settings.



CME/CE Credit Provided by AKH Inc., Advancing Knowledge in Healthcare. This activity is jointly-provided by AKH Inc., Advancing Knowledge in Healthcare and Hektoen Institute, LLC.

Physicians

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of AKH Inc., Advancing Knowledge in Healthcare and Hektoen Institute, LLC. AKH Inc., Advancing Knowledge in Healthcare is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for Physicians.

AKH Inc., Advancing Knowledge in Healthcare designates this live activity for a maximum of 6.5 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistants

NCCPA accepts *AMA PRA Category 1 Credit*[™] from organizations accredited by ACCME.

Nursing

AKH Inc., Advancing Knowledge in Healthcare is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This activity is awarded 6.5 contact hours.

Nurse Practitioners



American Association of
NURSE PRACTITIONERS[™]

This activity has been planned and implemented in accordance with the accreditation Standards of the American Association of Nurse Practitioners (AANP) through the joint providership of AKH Inc., Advancing Knowledge in Healthcare and Medical Resource Association.

AKH Inc., Advancing Knowledge in Healthcare is accredited by the American Association of Nurse Practitioners as an approved provider of nurse practitioner continuing education. Provider Number: 030803.

This activity is approved for 6.5 contact hours which includes X hour(s) of pharmacology. Activity ID #219110.

Pharmacy



AKH Inc., Advancing Knowledge in Healthcare is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education.

AKH Inc., Advancing Knowledge in Healthcare approves this knowledge-based activity for 6.5 contact hours (0.65 CEUs). UAN 0077-9999-19-032-L04-P; UAN 0077-9999-19-032-L04-T. Initial release date: 7/18/2019.

Criteria for Success

Statements of credit will be awarded based on the participant's attendance and submission of the activity evaluation form. A link to the online claim credit and evaluation form will be provided at the meeting. If you have any questions about this CME/CE activity, please contact AKH Inc. at jgoldman@akhcme.com.

Dental Credits

The Illinois Department of Public Health's Division of Oral Health approves this course for 6.5 hours of CE credit for dental professionals. Dental Professionals should claim only credit commensurate with the extent of their participation in the activity. To claim credits,

To claim continuing Education credit, attendees must:

- Fill out the sign in sheet and provide your mailing and e-mail address;
- Attend the entire session;
- Return the paper evaluation form.

Certificates will be emailed to attendees up to 6-8 weeks after the event.

Disclosure

The planners, editors, faculty and reviewers of this activity have no relevant financial relationships to disclose. This event was created without any commercial support.

Agenda

Time	Session		
8:00 am – 8:30 am	Check In & Registration		
8:30 am – 10:00 am	State, Federal, and Regulatory Updates Erica Runningdeer, MSN, MPH, RN, Illinois Department of Public Health Melinda Neuhauser, PharmD, MPH, Centers for Disease Control and Prevention Sarah Kabbani, MD, MSc, Centers for Disease Control and Prevention David Baker, MD, MPH, FACP, The Joint Commission Alonso Carrasco-Labra, DDS, MSc, PhD(C), American Dental Association		
10:00am – 10:15 am	Break		
10:15am – 11:15 am	Appropriateness, Measurement, and Intervening on Ambulatory Antibiotic Prescribing Jeff Linder, MD, MPH, Northwestern Medicine		
11:15am-11:45am	Pipeline Antimicrobials and Updates in Rapid Diagnostics Eric Wenzler, PharmD, University of Illinois at Chicago		
11:45am – 12:15 pm	Current State of XDROs in Illinois Angela Tang, MPH, IDPH Elizabeth Soda, MD, Centers for Disease Control and Prevention		
12:15pm – 1:30 pm	Lunch & Poster Presentations <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; border: none;"> <p style="text-align: center;">Acute Care Track:</p> <ul style="list-style-type: none"> • Divide and conquer: Implementing a comprehensive antimicrobial stewardship program with prospective audit and feedback in an urban community hospital- Martin Cortez, PharmD, Saint Anthony Hospital • Evaluating Nurse Perspectives on Antimicrobial Stewardship Practices: A Single-center Survey – Maressa Santarossa, Pharm D, Loyola University Medical Center </td> <td style="width: 50%; vertical-align: top; border: none;"> <p style="text-align: center;">Long-Term Care Track:</p> <ul style="list-style-type: none"> • GAIN Collaborative Results- Amy Hanson, PharmD, Chicago Department of Public Health • Reducing Urinary Tract Infection in a Long-Term Care Facility- Abiodun Atomori, DNP, Oak Street Health </td> </tr> </table>	<p style="text-align: center;">Acute Care Track:</p> <ul style="list-style-type: none"> • Divide and conquer: Implementing a comprehensive antimicrobial stewardship program with prospective audit and feedback in an urban community hospital- Martin Cortez, PharmD, Saint Anthony Hospital • Evaluating Nurse Perspectives on Antimicrobial Stewardship Practices: A Single-center Survey – Maressa Santarossa, Pharm D, Loyola University Medical Center 	<p style="text-align: center;">Long-Term Care Track:</p> <ul style="list-style-type: none"> • GAIN Collaborative Results- Amy Hanson, PharmD, Chicago Department of Public Health • Reducing Urinary Tract Infection in a Long-Term Care Facility- Abiodun Atomori, DNP, Oak Street Health
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	<p style="text-align: center;">Dental Track:</p> <ul style="list-style-type: none"> • Comparative effectiveness of dental extractions alone versus dental extractions with antibiotic therapy- Lisa Young, PharmD, BCPS, Jesse Brown VA Hospital • Antibiotic Prescribing Practices for Acute Oral Infections in the Veterans Health Administration- Daniel Carlsen, PharmD, Hines VA Hospital <p style="text-align: center;">Outpatient Track:</p> <ul style="list-style-type: none"> • Social Media Education Efforts for Providers and the General Public – Jennifer Pisano, MD, University of Chicago • Telligen’s Outpatient Antibiotic Stewardship Efforts – Tracey Durns, MBA, Telligen • OSF Healthcare Outpatient Efforts & Lessons Learned- Julie Giddens, PharmD, OSF Healthcare System
<p>Concurrent Sessions 1:30pm – 2:25 pm</p>	<p>Antibiotic Stewardship in Acute Care Settings: Show and Tell Chris Crank, PharmD, Rush-Copley Medical Center Lisa Young, PharmD, BCPS, Jesse Brown VA Hospital Julie Giddens, PharmD and Tim Murrey, PharmD, BCPS, OSF Healthcare System</p> <p>Antibiotic Stewardship Interventions in Long Term Care Chris Crnich, MD, PhD, University of Wisconsin</p> <p>Antibiotic Stewardship in Outpatient Care – Lessons Learned from Implementing Outpatient Stewardship at UIC OSF Healthcare Multi-Regional Outpatient Antimicrobial Improvement Initiatives Alan Gross, PharmD, UIC College of Pharmacy Richard Ginnetti, MD, MBA, OSF Healthcare System</p> <p>Progress of Antimicrobial Stewardship Programs at UIC College of Dentistry Susan Rowan, DDS, UIC College of Dentistry Danny Hanna, DDS, UIC College of Dentistry</p>
<p>Concurrent Sessions 2:30 pm – 3:25 pm</p>	<p>Using Antimicrobial Stewardship Principles to Reduce <i>Clostridioides difficile</i> Infection Stuart Johnson, MD, Loyola University Medical Center</p> <p>Antibiotic Stewardship in Long-Term care Sarah Kabbani, MD, MSc, Centers for Disease Control and Prevention</p> <p>Tracking Antibiotic Use and Outcomes in the Outpatient Setting Katherine Fleming-Dutra, MD, Centers for Disease Control and Prevention</p> <p>Dentistry and <i>Clostridioides difficile</i> in the Community Maria Bye, MPH, Minnesota Department of Health</p>
<p>3:25 pm – 3:45 pm</p>	<p>Break</p>
<p>Concurrent Sessions 3:45 pm – 4:40 pm</p>	<p>Antibiotics for Emergency Management of Dental Pain and Swelling Malavika Tampi, MPH, American Dental Association</p> <p>Antibiotic Stewardship, Nurses on Board! Maria Valeria Fabre, MD, John Hopkins University</p>

	Ashley Pleiss, BSN, John Hopkins Hospital
	Utilizing Clinical Decision Support Software to Enhance Your Antimicrobial Stewardship Program
	Michael Postelnick, BS Pharm, Northwestern Medicine
	Establishing Guidelines for Beta Lactam Allergies
	Hayley Hodgson, PharmD, BCPS, Rush University Medical Center
4:40pm – 4:45 pm	Wrap up & evaluations

Session Descriptions

8:30 am – 10:00 am

General Session: National, Regulatory, & Local Antimicrobial Stewardship Updates

Speakers: Erica Runningdeer, MSN, MPH, RN, Illinois Department of Public Health, Melinda Neuhauser, PharmD, MPH, Center for Disease Control and Prevention, Sarah Kabbani, MD, MSc, Centers for Disease Control and Prevention, David Baker, MD, MPH, FACP, the Joint Commission, Alonso-Carrasco-Labra, DDS, MSc, PHD(C), American Dental Association

Moderator: Dheeraj Mahajan, MD, MBA, MPH, FACP, Chicago Internal Medicine Practice and Research

Objectives:

- Summarize national landscape for antimicrobial stewardship
- Describe statewide initiatives related to antimicrobial stewardship
- Identify local requirements for implementing antimicrobial stewardship

10:15 am – 11:15 am

General Session: Appropriateness, Measurement, and Intervening on Ambulatory Antibiotic Prescribing

Speaker: Jeff Linder, MD, MPH, Northwestern University

Moderator: Desman Rozovics, Illinois Academy of Family Physicians

Objectives:

- Provide an overview of the existing guidelines for appropriate antibiotic use
- Describe current appropriateness of ambulatory antibiotic prescribing practices
- Discuss interventions to reduce inappropriate ambulatory antibiotic prescribing

11:15 am – 11:45 am

General Session: Pipeline Antimicrobials and Updates in Rapid Diagnostics

Speaker: Eric Wenzler, PharmD, University of Illinois at Chicago

Moderator: Desma Rozovics, Illinois Academy of Family Physicians

Objectives:

- Discuss the pertinent antimicrobial stewardship implications of newly approved antimicrobial agents
- Identify antimicrobial agents in the advanced stages of the drug development pipeline and assess their potential implications for infectious diseases pharmacotherapy
- Review impact and knowledge of rapid diagnostic tests (RDTs)
- Discuss diagnostic stewardship and its components
- Examine the RDT and antimicrobial stewardship (ASP) relationship

11:45 am – 12:15 pm

General Session: Current State of XDROs in Illinois

Speaker: Angela Tang, MPH, Illinois Department of Public Health, Elizabeth Soda, MD, Centers for Disease Control and Prevention

Moderator: Desma Rozovics, Illinois Academy of Family Physicians

Objectives:

- Review recent updates to the XDRO Registry
- Describe the current state of XDROs in Illinois
- Identify best practices in infection control

12:15 pm – 1:25 pm

Lunchtime Session: Poster Presentations

Speakers: See Agenda

Objectives:

- Describe best practices for implementing antibiotic stewardship in the acute care
- Describe best practices for antibiotic stewardship in long term care
- Describe best practices for antibiotic stewardship outpatient and dental care

1:30 pm – 2:25 pm

Concurrent Session: Antibiotic Stewardship in Acute Care Settings: Show and Tell

Speakers: Chris Crank, PharmD, Rush-Copley Medical Center, Lisa Young, PharmD, BCPS, Jesse Brown VA Hospital
Julie Giddens, PharmD, OSF Healthcare System, Tim Murrey, PharmD, BCPS, OSF Healthcare System

Moderator: Jenny Winkler, MPH, Illinois Hospitals Association

Objectives:

- Discuss Antimicrobial Stewardship Program implementation at Rush-Copley Medical Center
- Discuss Antimicrobial Stewardship Program implementation at Jesse Brown VA Hospital
- Discuss Antimicrobial Stewardship Program implementation at OSF Healthcare facilities

Concurrent Session: Antibiotic Interventions in Long-Term Care

Speaker: Chris Crnich, MD, PhD, University of Wisconsin

Moderator: Michelle Ealy, RN, Illinois Department of Public Health

Objectives:

- Evaluate benefits of antimicrobial stewardship in long term care
- Identify the core elements of antimicrobial stewardship in long term care
- Discuss potential barriers to implementing antimicrobial stewardship programs in long term care

Concurrent Session: Antibiotic Stewardship in Outpatient Care – Lessons Learned from Implementing Outpatient Stewardship at UIC and OSF Healthcare Multi-Regional Outpatient Antimicrobial Improvement Initiatives

Speaker: Alan Gross, PharmD, UIC College of Pharmacy, Richard Ginnetti, MD, MBA, OSF Healthcare System

Moderator: Rashmi K. Chugh, MD, MPH, DuPage County Health Department

Objectives:

- Discuss Antimicrobial Stewardship Program implementation at UIC and OSF outpatient centers
- Review lessons learned from implementing stewardship programs in the outpatient setting
- Evaluate outcomes of antimicrobial stewardship programs in outpatient settings

Concurrent Session: Progress of Antimicrobial Stewardship Programs at UIC College of Dentistry

Speaker: Susan Rowan, DDS, and Danny Hanna, DDS, UIC College of Dentistry

Moderator: Katie Suda, PharmD, University of Illinois at Chicago

Objectives:

- Familiarize audience with CDC core elements for initial implementation of an antibiotic stewardship program in the dental setting
- Discuss positive experiences and challenges of AS implementation in dental setting
- Discuss ways to apply aspects of stewardship to individual clinical environments

2:30 pm – 3:25 pm

Concurrent Session: Using Antimicrobial Stewardship Principles to Reduce *Clostridioides difficile* infection

Speaker: Stuart Johnson, MD, Loyola University

Moderator: Fritzie Albarillo, MD, Loyola University Medical Center

Objectives:

- Review the history of antibiotics and *C. difficile* infection (CDI)
- Give examples of effective antibiotic restriction efforts to control CDI outbreaks
- Summarize the new IDSA/SHEA *C. diff* ASP recommendations for CDI

Concurrent Session: Antibiotic Stewardship in Long-Term Care

Speaker: Sarah Kabbani, MD, MSc, Centers for Disease Control and Prevention

Moderator: Dheeraj Mahajan, MD, MBA, MPH, FACP, Chicago Internal Medicine Practice and Research

Objectives:

- Describe the reasons why antibiotic stewardship is needed in the long-term care setting.
- Discuss the framework for implementing antibiotic stewardship in the long-term care setting.
- Identify strategies for implementing effective antibiotic stewardship and tracking antibiotic use in the long-term care setting

Concurrent Session: Tracking Antimicrobial Use and Outcomes in the Outpatient Setting

Speaker: Katherine Fleming-Dutra, MD, Centers for Disease Control and Prevention

Moderator: Melinda Neuhauser, MD, MPH, Centers for Disease Control and Prevention

Objectives:

- Describe methods to track antibiotic use in outpatient settings
- Describe methods to track patient outcomes following antibiotic stewardship implementation in outpatient settings

Concurrent Session: Dentistry and *Clostridioides difficile* Infection in the Community

Speaker: Maria Bye, MPH, Minnesota Department of Health

Moderator: Rachel Simon, BPH Candidate, Illinois Department of Public Health

Objectives:

- Differentiate between community-associated and healthcare-associated *C. difficile* infection in terms of demographics and risk factors
- Describe how antibiotic stewardship in all patients, including dental patients, can lower the burden of *C. difficile* infection

3:45 pm – 4:40 pm

Concurrent Session: Antibiotics for Emergency Management of Dental Pain and Swelling

Speaker: Malavika Tampi, MPH, American Dental Association

Moderator: Katie Suda, PharmD, University of Illinois at Chicago

Objectives:

- Understand the current burden of disease and prescription habits of dental practitioners and other providers
- Describe the latest recommendations from the ADA evidence-based guideline on antibiotic use for symptomatic irreversible pulpitis, apical periodontitis, and acute apical abscess
- Describe next steps for a broader approach for antibiotic stewardship in dentistry

Concurrent Session: Antibiotic Stewardship, Nurses on Board!

Speakers: Maria Valeria Fabre, MD, John Hopkins Hospital, Ashley Pleiss, BSN, John Hopkins Hospital

Moderator: Elizabeth Murphy, MPH, DuPage County Health Department

Objectives:

- Describe the impact of Antibiotic stewardship in patients' outcomes
- Describe how nurses can contribute to safer antibiotic use
- Describe key elements to integrate nurses into antibiotic stewardship activities
- Describe some barriers and solutions to integrating nursing into antibiotic stewardship

Concurrent Session: Utilizing Clinical Decision Support Software to Enhance Your Antimicrobial Stewardship Program

Speaker: Michael Postelnick, BS Pharm, BCPS, Northwestern Medicine

Moderator: Rachel Simon, BPH Candidate, Illinois Department of Public Health

Objectives:

- Evaluate the evidence supporting Clinical Decision Support Software on improving Antimicrobial Stewardship Clinical Outcomes.
- Describe how Clinical Decision Support tools can be leveraged to improve antimicrobial stewardship program efficiency.
- Describe key components of Clinical Decision Support Software
- Describe future directions for Clinical Decision Support Software

Concurrent Session: Establishing Guidelines for Beta Lactam Allergies

Speaker: Hayley Hodgson, PharmD, BCPS, Rush University Medical Center

Moderator: Amy Hanson, PharmD, Chicago Department of Public Health

Objectives:

- Describe basic components needed for institutional β -lactam Allergy Guidelines.
- Interpret the impact of antimicrobial stewardship on patients with documented β -lactam allergies.
- Identify common barriers faced in the implementation of new institutional β -lactam Allergy Guidelines.

Speaker Biographies

Abiodun Atomori, DNP, AGPCNP-BC

Abiodun Atomori graduated from UIC College of Nursing in 2011 with a BSN degree. He went back for his postgraduate degree at Rush University and earned a Doctor of Nursing Practice degree in Adult-Gerontology Primary Care in 2018. For his doctoral project, he worked with the multidisciplinary team of a local long-term care facility to reduce urinary tract infection among older adults. He is currently a board-certified Adult-Gerontology Primary Care Nurse Practitioner working at Oak Street Health in Chicago since June 2019 providing care to the older adults in the community.

David Baker, MD, MPH, FACP

David W. Baker is the Executive Vice President for Health Care Quality Evaluation at The Joint Commission in Oakbrook Terrace, Illinois. In this role, he leads the Department of Standards and Survey Methods, the Department of Quality Measurement, and the Department of Research. Dr. Baker oversees the development of performance measures, standards, survey methods, and National Patient Safety Goals for all Joint Commission accreditation and certification programs. He also oversees the Joint Commission's biostatistics and data analysis activities and its public reporting of performance measurement data

Maria Bye, MPH

Maria Bye is an epidemiologist in the zoonotic disease unit at the Minnesota Department of Health (MDH) and is coordinator for the state's *Clostridioides difficile* surveillance program. She received her B.S. in Biology and Communications from the University of Minnesota and her MPH from Emory University. Prior to coming to MDH, Maria worked in zoonotic disease laboratories at the University of Minnesota. She bridged the gap between benchtop science and public health by doing epidemiological work with the Special Bacteriology Reference Laboratory at the CDC. Maria then gained insight into the healthcare system by consulting with Health System Advisors, specializing in urgent care center strategy and operations. Her research passions include *C. diff*, antimicrobial stewardship, and zoonotic pathogens.

Daniel Carlsen, PharmD

Daniel Carlsen trained as a PGY2 Infectious Diseases Pharmacy Resident at the Edward Hines, Jr. VA Hospital and as a PGY1 Pharmacy Resident at Mount Sinai Hospital. He earned his PharmD from the University of Iowa, College of Pharmacy and is originally from the Chicagoland area.

Alonso Carrasco-Labra, DDS, MSc, PhD(c)

Alonso Carrasco-Labra is a dentist, who obtained his DDS from University of Chile and his master's degree in clinical epidemiology from McMaster University. Currently, he is a PhD candidate in Health Research Methodology at the same institution, under the supervision of Dr Gordon Guyot. Since 2015, he serves as Director of the Center for Evidence Based Dentistry of the American Dental Association. He is also an instructor at the Department of Oral and Maxillofacial Surgery of the University of Chile. He is also an instructor at the Department of Oral and Maxillofacial Surgery of the University of Chile. His research interest focuses on clinical decision making at different levels of the health system. He is also an author of more than 90 articles published in peer-reviewed journals in medicine and dentistry.

Martin Cortez, PharmD

Martin Cortez has been a clinical pharmacist at Saint Anthony Hospital since July 2017. Saint Anthony Hospital officially started their Antimicrobial Stewardship program in October of 2017. It is a joint effort between the ID specialist and staff PharmDs. The antimicrobial stewardship program at Saint Anthony Hospital was a recipient of the Innovation Challenge for 2019 from the Illinois Hospital Association. Martin Cortez has overseen the program since its inception.

Chris Crank, PharmD

Chris Crank received his Doctor of Pharmacy degree at the University of Iowa in 2000. He then completed an Internal Medicine residency with the St. Louis College of Pharmacy. After completing his residency, he became an Assistant Professor at St. Louis College of Pharmacy. In 2003, he moved to Chicago, IL to work as an Infectious Diseases Clinical Specialist at Rush University Medical Center. In 2009, Chris received a master's degree in Health System Management. In 2011, he became the Associate Director of Clinical Pharmacy Services at Rush University Medical Center. Chris is currently the Director of Pharmacy Services at Rush Copley Medical Center in Aurora, IL. Chris' clinical interests include gram-positive and gram-negative resistance, invasive fungal diseases, and pharmacodynamics of anti-infectives. During his career as a pharmacist, he has been actively engaged in precepting pharmacy students and PGY-1 and PGY-2 residents and conducting research. Chris also has a strong interest in pharmacy management and administration.

Chris Crnich, MD, PhD

Dr. Christopher Crnich, MD is the Chief of Medicine and Hospital Epidemiologist at the William S. Middleton VA Hospital and an Associate Professor of Medicine in the Division of Infectious Disease at the University of Wisconsin School of Medicine and Public Health (UW SMPH). He has a general research interest in healthcare-associated infections among vulnerable elderly patients with a specific focus on antibiotic use and antibiotic-resistance in long-term care facilities. Dr. Crnich is currently the principal investigator for an Agency for Healthcare Research and Quality (AHRQ) grant which supports the development and evaluation of a novel stewardship intervention to reduce inappropriate antibiotic use in skilled nursing facilities (SNFs). He also serves as a Co-Investigator on an AHRQ-funded cluster-randomized trial of an intervention to reduce treatment of asymptomatic bacteriuria in SNFs. Dr. Crnich currently serves as Chair of the Society for Healthcare Epidemiology of America's (SHEA) Long-Term Care Special Interest Group and is leading SHEA's current efforts to update criteria for initiation of antibiotics in SNFs.

Tracey Durns, MBA

Tracey Durns is the state program director for the Telligen QIN-QIO team in Illinois, coordinating efforts with providers and communities across the region on data-driven quality improvement initiatives. Tracey oversees the collaboration of the state-wide initiatives as well as regional efforts to increase awareness of the Quality Payment Program. Prior to her role as director, she served as a senior quality improvement facilitator at Telligen with the nursing home care team, where her work included educating facilities on quality measures and facilitating their quality improvement processes. Tracey has over 20 years of experience in long-term care, focusing her work on assisting providers with implementation of culture change and person-centered care. Prior to joining Telligen in 2009, her work included establishing policy and procedures in accordance with state and federal regulatory agencies. Tracey received her MBA from Concordia University; she is a licensed practical nurse; and she is a certified restorative nurse as well as a TeamSteps Master Trainer.

Valeria Fabre, MD

Valeria Fabre earned her medical degree at the University of Buenos Aires, Argentina. Dr. Fabre completed her residency in Internal Medicine at Brown University and her fellowship in Infectious Diseases at Johns Hopkins University School of Medicine where she is currently an Assistant Professor of Medicine in the Division of Infectious Diseases. She is the associate medical director of the Adult Antimicrobial Stewardship Program and a hospital epidemiologist at the Johns Hopkins Hospital. She is a member of the SHEA Journal club committee. Her research interests include development of strategies to promote optimal antibiotic use, integration of nurses into antimicrobial stewardship activities and diagnostic stewardship. Dr. Fabre has worked with bedside nurses to improve the management of patients with *Clostridium difficile* infection and is currently evaluating the impact of clinical algorithms on culturing practices and penicillin allergy documentation targeting nurses.

Katherine Fleming-Dutra, MD

Katherine Fleming-Dutra is the Deputy Director and outpatient antibiotic stewardship lead in the Office of Antibiotic Stewardship in the Division of Healthcare Quality Promotion at the U.S. Centers for Disease Control and Prevention (CDC). Dr. Fleming-Dutra is a pediatrician and pediatric emergency physician and served as an Epidemic Intelligence Service Officer from 2010-2012 in CDC's Division of Bacterial Diseases.

Julie Giddens, PharmD, BCPS

Julie Giddens completed her Pharm D degree at Purdue University in 2002. She then went on to pursue a PGY1 in general pharmacotherapy and a PGY2 in infectious diseases at IU – Health in Indianapolis, Indiana. Upon completion of residencies in 2004, Julie worked as the Infectious Disease Clinical Pharmacist for Saint Joseph Hospital in Denver, CO. In 2009, she came to OSF Saint Francis Medical Center to start an antimicrobial stewardship program. In 2016, she became the co-Ministry Infectious Disease Pharmacotherapy Coordinator for OSF and assisted with implementing antimicrobial stewardship programs in what is now 13 facilities ranging in size from 25 to 629 beds.

Richard Ginnetti, MD, MBA

Dr. Ginnetti obtained his Undergraduate Degree from Loyola University of Chicago, his Medical Degree from Southern Illinois School of Medicine and recently completed his MBA from University of Massachusetts Amherst. He is Board Certified in Family Medicine with Added Qualifications in Geriatric Medicine and Sports Medicine. Dr. Ginnetti maintains an active Family Medicine practice in Bloomington, IL in addition to current administrative roles as Eastern Region Primary Care Medical Director for OSF Healthcare and Chairman of Ambulatory Pharmacy and Therapeutics for OSF Healthcare. His areas of interests are improving operations and clinical outcomes in the ambulatory environment.

Alan Gross, PharmD

Dr. Alan Gross is a Clinical Assistant Professor at the University of Illinois at Chicago College of Pharmacy and the antimicrobial stewardship pharmacist at University of Illinois Hospital. Dr. Gross received his PharmD from Purdue University and subsequently completed a PGY1 pharmacy practice residency at Henry Ford Hospital and a PGY2 infectious diseases residency at Midwestern University Chicago College of Pharmacy. He is active within the Society of Infectious Diseases Pharmacists and recently served as chair for the antimicrobial stewardship committee. His primary research interests include the measurement of outcomes related to antimicrobial stewardship as well as the epidemiology and treatment of respiratory tract infections.

Danny Hanna, DDS

Dr. Danny Hanna is a Clinical Associate Professor and Director of Urgent Care Patient Services at the University of Illinois at Chicago College of Dentistry. He received his dental degree from Marquette University in Milwaukee, Wisconsin. His past experience includes serving in the Commissioned Corps of the US Public Health Service, owning a Private Practice, hospital dentistry, and working at Community Health Centers. He served on the Chicago Area HIV Services Planning Council and Broward Regional Health Planning Council and is a current member of the Illinois Healthcare and Family Services Dental Policy Review Committee. He is active in Organized Dentistry and currently serves on the Illinois State Dental Society Committee on Dental Benefits. His areas of interest include providing care for people living with HIV/AIDS, medically complex dental care, antibiotic and opioid stewardship.

Hayley Hodgson, PharmD, BCPS

Hayley Hodgson attended the University of Georgia before moving to Chicago to complete my PGY1 Pharmacy Practice and PGY2 Infectious Disease Pharmacy Residencies at Rush University Medical Center and Midwestern University Chicago College of Pharmacy. Since completing her training in June 2018, she has worked as a Clinical Pharmacy Specialist in Infectious Diseases and Antimicrobial Stewardship at Rush University Medical Center. In my free time, she enjoys exploring Chicago's neighborhoods, watching all Georgia Bulldog sports, and is currently looking for the perfect puppy!

Stuart Johnson, M.D, FIDSA, DTM&H

Dr. Johnson is an Infectious Disease Clinician and Researcher at the Hines VA Hospital and a Professor of Medicine at Loyola University Stritch School of Medicine at Loyola University Medical Center in Maywood, Illinois. His main research interest and focus has involved the epidemiology, pathogenesis, and treatment of *Clostridioides difficile* infection. His clinical experience in the treatment of patients with recurrent CDI has translated into studies helping to define optimal management of these infections. He is currently the Principal Investigator of a multi-center study with the VA Healthcare system designed to define optimal management of early recurrences of CDI. He is also a co-chair of the Infectious Diseases Society of America/Society for Healthcare Epidemiology of America (IDSA/SHEA) CDI Guidelines Committee.

Sarah Kabbani, MD, MSc

Sarah Kabbani is an adult infectious disease physician and medical officer in the Office of Antibiotic Stewardship, Division of Healthcare Quality Promotion, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention. Her areas of concentration include older adult and long-term care antibiotic stewardship.

Jeffrey A. Linder, MD, MPH, FACP

Dr. Linder is a general internist and primary care clinician-investigator. He is the Michael A. Gertz Professor of Medicine and the Chief of the Division of General Internal Medicine and Geriatrics at the Northwestern University Feinberg School of Medicine. Dr. Linder's research focuses on the care of ambulatory patients with acute respiratory infections (ARIs) and the appropriate use of antibiotics in ambulatory care. Dr. Linder has expertise in electronic health records and clinical decision support as well as using behavioral science and social psychology to understand and change behavior. Dr. Linder served on the "Outpatient Antibiotic Use Target-Setting Workgroup" which was convened by the Centers for Disease Control and Prevention and The Pew Charitable Trusts; the Antibiotic Stewardship Research Workshop Planning Committee of the Society for Healthcare Epidemiology of America; and is a standing member of the Agency for Healthcare Research and Quality's Healthcare Safety and Quality Improvement Study Section. Dr. Linder received his medical degree from Northwestern University School of Medicine, did a Fellowship in General Medicine and Primary Care at Massachusetts General Hospital, and has a Master of Public Health degree from the Harvard TH Chan School of Public Health

Melinda Neuhauser, PharmD, MPH, FCCP, FASHP

Melinda Neuhauser is Pharmacist and Acute Care Lead for Centers for Disease Control and Prevention (CDC) Office of Antibiotic Stewardship in the Division of Healthcare Quality Promotion. Melinda graduated from University of Minnesota College of Pharmacy, infectious diseases residency training at Detroit Receiving Hospital and fellowship training at University of Illinois at Chicago. Prior to joining the CDC, Melinda worked as the National Clinical Pharmacy Program Manager in Infectious Diseases for the Department of Veteran Affairs (VA) Pharmacy Benefits Management Services and Co-Chair of the VA National Antimicrobial Stewardship Task Force. She also previously worked as clinical pharmacy specialist in infectious diseases at National Institute of Health Clinical Research Center as well as University of Houston College of Pharmacy/MD Anderson Cancer Center.

Jennifer Pisano, MD

Dr. Jennifer Pisano is a Transplant Infectious Diseases physician at the University of Chicago Medicine and the Medical Director of the UChicago Medicine Antimicrobial Stewardship Program since 2012, leading a team whose primary objective is to improve clinical outcomes and curb antimicrobial resistance through the safe and judicious use of antimicrobials in the hospital and ambulatory care setting. Dr. Pisano's academic interests include the studying impact of provider feedback on antibiotic prescribing patterns and antimicrobial stewardship in immunocompromised hosts.

Ashley Pleiss, BSN

Ashley Pleiss is a Registered Nurse at the Johns Hopkins Hospital. She graduated from York College of Pennsylvania in 2011 with a bachelor's degree in nursing. She has been a nurse in the Department of Medicine for 5 years and is actively involved in unit management and education, in addition to direct patient care. Ashley is passionate about improving fundamentals of nursing care among her staff. She leads the Activity and Mobility Promotion program on her unit and has been active in creating resources to educate nurses on appropriate wound care treatment. Ashley currently collaborates with Dr. Fabre to promote nurse involvement in antibiotic stewardship by implementing a nurse focused urine culture algorithm.

Michael Postelnick, BS Pharm, BCPS

Michael Postelnick is currently Antimicrobial Stewardship Coordinator at Northwestern Memorial Hospital in Chicago. He received his pharmacy degree from the University of Illinois College of Pharmacy in 1976, subsequently completing a Pharmacy Practice/Pharmacology residency at Rush Medical Center in 1981. He has practiced clinically in both community hospitals and academic medical centers. As an infectious diseases pharmacist at Northwestern Memorial in 1987 before stewardship guidelines existed, Mike led efforts of prospective audit and feedback, empiric antimicrobial use guidelines, antibiotic order forms and dose optimization. After establishing in-patient ID services, in 1996, Mike established a full-time pharmacist practice in the NMH HIV clinic. He received the SIDP Clinician of the Year award in 2008. Mike currently serves as Chair of the Vizient AMC Pharmacy Council Research Committee, Past Vice-Chair of the Vizient AMC Pharmacy Council Antimicrobial Stewardship Committee and co-Chair of the Northwestern Medicine Antimicrobial Stewardship Quality Committee. He has participated in the authorship of over 70 peer-reviewed publications and holds faculty appointments at multiple Colleges of Pharmacy as well as the Northwestern University Feinberg School of Medicine.

Susan Rowan, DDS, FACD

Dr. Rowan is a licensed clinical dentist and Executive Associate Dean for Clinical Affairs at the University of Illinois at Chicago, College of Dentistry. She is a graduate of the UIC program, an alumni board past president, OKU past president, and former Executive Committee Vice-Chair, Member of the Admissions, Discipline, Student Promotion, and Awards Committees. She oversees patient admissions and emergency clinics, central patient records, clinic instrument sterilization, dispensary, and clinic information management systems, and the Colleges patient care quality assurance program. As part of delivering quality evidence-based care, she has facilitated the implementation of antibiotic stewardship and opioid prescribing resources, including posters and patient educational materials. She is responsible for assuring the College's compliance with the American Dental Association Commission on Dental Accreditation standards related to patient care and clinical education of dental students and postgraduate dental specialty programs residents. She has completed a Teaching Fellowship in the Department of Medical Education at the University of Illinois at Chicago, a Leadership Fellowship with the American Dental Education Association, and a Master's degree candidate at UIC in Patient Safety Leadership.

Erica Runningdeer MSN, MPH, RN

Ms. Runningdeer is the Healthcare Associated Infection Prevention Coordinator for the Illinois Department of Public Health, Division of Patient Safety and Quality. She began her work at IDPH in October 2011 as the Project Director for the Illinois Antimicrobial Stewardship Collaborative and co-leader of the Illinois Campaign to Eliminate *Clostridioides difficile* (ICE C. diff). Erica earned a Master of Public Health and Master of Science in Nursing from the University of Illinois at Chicago and has been inducted into Delta Omega Honorary Society in Public Health and Sigma Theta Tau International Honor Society of Nursing. She is also an active member of the Council of State and Territorial Epidemiologists (CSTE) and the Association for Professionals in Infection Control and Epidemiology (APIC).

Maressa Santarossa, PharmD

Dr. Santarossa is the Transplant Infectious Diseases Clinical Pharmacist at Loyola University Medical Center. She received her Doctor of Pharmacy degree from Wayne State University Eugene Applebaum College of Pharmacy in Detroit, Michigan. She completed her PGY-1 residency training at the University of Illinois at Chicago College of Pharmacy and her PGY-2 residency in Infectious Diseases at the University of Michigan. Her main areas of interest include antimicrobial stewardship in immunocompromised patients and treatment of invasive fungal infections.

Elizabeth Soda, MD

Dr. Soda is an infectious diseases physician currently serving as the Centers for Disease Control and Prevention's (CDC) Field Assignee to Illinois' Healthcare Acquired Infections Program. Her work has primarily focused on antibiotic resistant pathogens with an emphasis on improving infection control practices within long term care settings. She had previously served as a hospital epidemiologist where her activities included prevention and response to hospital-associated outbreaks, the reduction of hospital-acquired infections, and the establishment of an antimicrobial stewardship program. She also spent several months in Nicaragua aiding in the establishment of infection control policies at the national pediatric hospital. Prior to moving to Illinois, Dr. Soda was an epidemic intelligence service (EIS) officer with the CDC's Respiratory Diseases Branch where she focused on healthcare associated Legionnaires' disease.

Malavika Tampi, MPH

Malavika Tampi has been working at the American Dental Association (ADA) since 2013 and acts as the lead methodologist and manager for the development of ADA clinical practice guidelines and evidence synthesis projects. In 2013, she obtained a Master's in public health degree from the University of Michigan and has been developing her skills in clinical epidemiology and evidence synthesis at the ADA since then. She has worked with several expert panels to develop systematic reviews, guidelines, and policies on topics including oral cancer, dental caries, antibiotic use, and cardiovascular disease. She lectures on how to practice and how to teach evidence-based dentistry to clinicians and academicians, and also participates in workshops on how to develop systematic reviews and conduct meta-analysis. She is a member of the Cochrane collaboration and the GRADE working group.

Angela Tang, MPH

Angela Tang is the Healthcare Associated Infections Epidemiologist for the Illinois Department of Public Health. Her work includes managing the XDRO Registry, enhancing statewide MDRO surveillance and information exchange, and analyzing data from the National Healthcare Safety Network for public reporting. Before coming to Illinois, Ms. Tang was a CDC Public Health Prevention Service Fellow who worked on healthcare-associated infection prevention for the New Mexico Department of Health and served as a community health educator with the Peace Corps in Nicaragua. She earned her MPH in Epidemiology-Maternal and Child Health from the University of Washington in Seattle.

Eric Wenzler, PharmD, BCPS, BCIDP, AAHIVP

Eric Wenzler is an Assistant Professor in the Department of Pharmacy Practice at the University of Illinois at Chicago College of Pharmacy. He recently completed a 3-year Infectious Diseases Pharmacotherapy Fellowship at the University of Illinois at Chicago in June 2017. He graduated from Ohio Northern University Raabe College of Pharmacy in 2012 and completed his Postgraduate Year 1 training in 2013 and Postgraduate Year 2 in Infectious Diseases in 2014 at The Ohio State University Wexner Medical Center in Columbus, Ohio. Dr. Wenzler's research interests include pharmacokinetics, pharmacodynamics, antimicrobial stewardship, and clinical microbiology.

Lisa Young, PharmD, BCIDP

Dr. Young earned her Pharm.D. from the University of Illinois at Chicago College of Pharmacy in 2006. She completed a PGY-1 Pharmacy Practice Residency at Duke University Medical Center in 2007, and a PGY-2 Infectious Disease Residency at The Ohio State University Medical Center in 2008. For the past 11 years, she has been an Infectious Diseases Clinical Pharmacy Specialist at Jesse Brown VA Medical Center in Chicago, Illinois. She is the residency program director for the PGY-2 Infectious Disease residency program. Dr. Young also precepts P-4 students and PGY-1 residents throughout the year. Dr. Young is an adjunct clinical instructor for the Department of Pharmacy Practice at the University of Illinois at Chicago College of Pharmacy and a Board-Certified Infectious Diseases Pharmacist.

Notes