

VII

**INTERNATIONAL
SYMPOSIUM
ON HAI AND AMS:
SHARING COMMON
GOALS**



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**CALI
COLOMBIA**

MARCH 15 - 17, 2017

INTERCONTINENTAL HOTEL



15

WEDNESDAY
MARCH

Starting with the Right Diagnosis

Moderators: Adriana Correa and Germán Esparza

2:00 – 2:30 **Update on *Clostridium difficile*: impact of carrier status; importance of binary toxin; organism numbers vs disease**
Ellen Jo Baron PhD.,D (ABMM). Professor Emerita, Stanford University

2:30 – 3:00 **Whole Genome Sequencing as a Starting Point to Understanding Antimicrobial Resistance**
Lorena Diaz, PhD. Universidad El Bosque.

3:00 – 3:30 Coffee break

3:30- 4:00 **New cloud-based technologies for infectious disease organism and resistance tracking**
Ellen Jo Baron PhD.,D (ABMM). Professor Emerita, Stanford University

4:00 – 4:45 **Syndromic testing role in Antimicrobial Stewardship Programs**
John Manford Hurst, PharmD, BCPS

4:45 - 5:45 **Opening Ceremony and JPQ Talk: Antibiotic Resistance: A Translational Approach**
Cesar Arias, MD, PhD. Texas University

Let's define the Right Antibiotic for Gram (+) and Gram (-) Bacteria

Moderators: Cesar Arias and María Virginia Villegas

- 7:30 – 8:30 **Meet the Expert.** Sponsored by : **MSD**
The role of PK/PD in Antimicrobial Stewardship programs.
James S. Lewis, PharmD. University of Texas.
Room Farallones, limited attendance
- 9:00 – 9:30 **Different Paradigms for Understanding the PK/PD of Antibiotic Resistance**
James S. Lewis, PharmD. University of Texas.
- 9:30 – 10:00 **Emerging Mechanisms of Resistance in Gram (-) Bacteria: Plasmid-Mediated Mcr-1 and Co-Carriage of Plasmid-Mediated Fosfomycin**
Yohei Doi, MD, PhD. University of Pittsburgh
- 10:00 – 10:30 Coffee break
- 10:30- 11:00 **Combination Therapy for Gram (+) and Gram (-) bacteria: Insights from New Data**
Yohei Doi, MD, PhD. University of Pittsburgh.
- 11:00 –11:30 **Challenges in the treatment of MSSA Infections**
Cesar Arias, MD, PhD. University of Texas.
- 11:30- 12:00 **Round Table**
- 12:30– 1:45 **Satellite Symposia (limited attendance)**
- Sponsored by : MSD. Room Gran Salón.**
New therapeutic options for *Paeruginosa* and the role of PK/PD for clinical success.
James S. Lewis, PharmD. University of Texas.
AMS : optimizing the therapeutic options for *Paeruginosa* and *Enterobacteriaceae* producing ESBLs.
Yohei Doi, MD, PhD. University of Pittsburgh.
- Sponsored by : WEST. Room Farallones.**
Cleaning and Disinfection :New products for New needs in the hospital.
Jennifer Han, MD, MSCE. University of Pennsylvania.

New Paradigms in the Prevention, Control and Treatment of MDR Bacteria

Moderators: Christian Pallares and Martha Alvarez

- 2:00 – 2:30 **Prevention of surgical site infections - do we have to change our attitude?**
Christian Eckmann MD, Ph.D, Academic Hospital of Medical University Hannover .
- 2:30 – 3:00 **New Technologies in Environmental Cleaning and Infection Prevention.**
Jennifer Han, MD, MSCE. University of Pennsylvania
- 3:00 – 3:30 Coffee break
- 3:30 – 4:00 **Environmental Cleaning Monitoring Practices - Current State of the Evidence .**
Jennifer Han, MD, MSCE. University of Pennsylvania
- 4:00 – 4:30 **Balancing Costs and Safety of Disposable vs. Reprocessing Devices: What is the Consensus?**
Christian Pallares MD, MSc. CIDEIM.
- 4:30- 5:00 **Are non-carbapenem beta-lactams options for treating ESBL infections?**
Pranita Tamma, MD. Johns Hopkins University School of Medicine

Antimicrobial Stewardship: From Theory to Practice

Moderators: Cristhian Hernández

- 7:30 – 9:00 **Meet the Expert.** Sponsored by : **Pfizer**
Challenge in the Diagnosis and treatment of complicated Intra-Abdominal Infection (focus: Patient Profile) and Q&A.
Christian Eckmann MD, Ph.D, Academic Hospital o Medical University Hannover.
Room Palmeras, limited attendance
- 9:00 – 9:30 **Tools to Measure and Track Changes in Antimicrobial Stewardship programs: Economical perspective**
James S. Lewis, PharmD. Oregon Health Science University
- 9:30 – 10:00 **Antimicrobial Stewardship Programs: Clinical and Economic Impact: A Real Example in Limited Resource Settings**
Cristhian Hernandez , MSc. CIDEIM
- 10:00 – 10:30 Coffee break
- 10:30 – 11:00 **Persuasive Technology to Implement Antimicrobial Stewardship in Practice.**
James S. Lewis, PharmD. Oregon Health Science University.
- 11:00 – 11:30 **Current strategies against multi-drug resistant organisms : the role of Antimicrobial Stewardship**
María Virginia Villegas , MD, MSc. CIDEIM
- 11:30-12:00 **Reviewing the Pros and Cons of Various Outcome Measures for Antimicrobial Stewardship Programs**
Pranita Tamma, MD. Johns Hopkins University School of Medicine
- 12:00-12:20 **Round Table**
- 12:30 – 2:00 **Closure**

PRANITA TAMMA, MD, MHS

Dr. Pranita D. Tamma is an assistant professor of pediatrics at the Johns Hopkins University School of Medicine. She specializes in infectious diseases and pediatric emergency medicine. Dr. Tamma is the director of the pediatric Antimicrobial Stewardship Program. She believes that although antibiotics have saved countless lives, their use is not benign. Dr. Tamma focuses on optimizing the use of antibiotics to treat infections, while also limiting their unnecessary use and the harm they can cause when used inappropriately. She assists clinicians with the selection, route, dose, interval and duration of antibiotics, developing guidelines to guide the appropriate and judicious use of antibiotics, and monitoring patient outcomes after implementation of these practices. She earned her undergraduate and medical degrees in a combined medical program at The City College of New York and SUNY Downstate College of Medicine. She completed both a pediatrics residency and a pediatric infectious diseases fellowship at Johns Hopkins Hospital. She also holds an MHS from the Johns Hopkins Bloomberg School of Public Health. She joined the Johns Hopkins faculty in 2013. Dr. Tamma conducts research both in the pediatric and adult population. Her research focuses on clinical outcomes related to antibiotic administration strategies and the use of rapid diagnostic tools to improve antibiotic use. Dr. Tamma has a particular interest in exploring optimal therapy for infections caused by multidrug resistant gram-negative organisms.

CESAR ARIAS, MD, MSC, PHD

Cesar A. Arias, M.D., M.Sc., Ph.D. received his medical degree from Universidad El Bosque, Santa Fe de Bogota, Colombia in 1992, his M.Sc. in Clinical Microbiology from the University of London, St. Bartholomew's and The Royal London Hospital School of Medicine and Dentistry, United Kingdom in 1996 and his Ph.D. in Molecular Biology and Microbiology Biochemistry from The University of Cambridge, Cambridge, United Kingdom in 2000. He completed his internal medicine residency and infectious disease fellowship at the University of Texas Medical School at Houston and MD Anderson Cancer Center in 2008 in the Clinical Investigator Pathway. His research interests include the clinical and molecular aspects of antimicrobial resistance with emphasis on Gram-positive bacteria. Dr. Arias is also the Director of the Molecular Genetics and Antimicrobial Resistance Unit, Universidad El Bosque, located in Colombia, South America.



JAMES LEWIS, PHARM D

James Lewis completed his BS in Pharmacy & received his PharmD from Washington State University. He then completed an infectious diseases pharmacotherapy residency at the University of Texas Health Science Center in San Antonio. He then spent the next 13 years as the co-director of antibiotic stewardship and the infectious diseases clinical pharmacy specialist at the University Health System in San Antonio. In 2013 Dr. Lewis moved to Oregon Health Science University to be co-director of antibiotic stewardship and the infectious diseases pharmacy supervisor. His research interests involve the correlation between resistance determinants and clinical outcomes as well as the role of rapid diagnostics in antibiotic stewardship. He has served as the co-chair of the CLSI breakpoint working group since 2013 and is a member of the AAC editorial board. In 2011 Dr. Lewis was named a fellow of the infectious diseases society of America.

YOHEI DOI, MD, PHD

Dr Yohei Doi is an infectious disease specialist in Pittsburgh, Pennsylvania. He received his medical degree from Nagoya University School of Medicine and has been in practice between 11-20 years. The mission of Dr. Doi's laboratory is to identify and investigate antimicrobial resistance of clinical concern among gram-negative bacterial pathogens. The areas of research include: (i) genetic and molecular basis of emerging antimicrobial resistance mechanisms; (ii) rapid diagnosis of resistance using phenotypic, genetic and lipidomic approaches, and (iii) inhibitor-based drug discovery.

Current efforts are focused on colistin resistance in *Acinetobacter baumannii*, a problematic healthcare-associated pathogen, and fosfomycin resistance in *Escherichia coli*, the predominant cause of urinary tract infection in both healthcare and community settings. Dr. Doi rounds on the general infectious diseases consult services as an attending physician and provide teaching on antimicrobial resistance mechanisms.



CHRISTIAN ECKMANN MD, PHD

Christian Eckmann is Antibiotic Stewardship Expert (ECDC/DGKH), Chief of Staff, Head of the Department of General, Visceral and Thoracic Surgery Klinikum Peine, Academic Hospital of Medical University Hannover Germany since 2008 and has become Chief of Staff in 2015. He obtained his MD in 1995 for his dissertation on the diagnosis and treatment of necrotising fasciitis. Dr Eckmann has specialised in gastrointestinal surgery (2003) and in thoracic surgery (2007). He was awarded a PhD in 2008 and became Professor of Surgery in 2014. He became Chief of Staff in 2015 and was certified as Antibiotic Stewardship Expert (ECDC/DGKH) in 2016.

Prof. Eckmann is a member of several societies including the Surgical Infection Society Europe, the German Sepsis Society and the Paul Ehrlich Society for Chemotherapy, where he is head of the intra-abdominal infections section of the expert panel for the German national guidelines for antimicrobial treatment of infections. Recently he also became head of the working group on intra-abdominal infections of the International Society of Chemotherapy Infection and Cancer. He is Antibiotic Stewardship Expert certified by the European Center for Disease Prevention and Control (ECDC). Prof Eckmann is also a member of an expert panel of the ECDC for optimising perioperative antibiotic prophylaxis. He was and is involved in more than 15 national and international guidelines. Prof. Eckmann is member of the Executive Committee of the working group critically ill patients (ESGCIP) of the European Society for Clinical Microbiology and Infectious Diseases (ESCMID).

His scientific interests include complicated intra-abdominal infections and complicated skin and soft tissue infections with a focus on the treatment of infections caused by resistant bacteria, fungi and infections due to *Clostridium difficile*. Furthermore, he is

involved in scientific projects about health care economics in Infectious Diseases. Prof Eckmann has published over 100 articles for peer-reviewed journals and more than 25 book articles.



ELLEN JO BARON, PH.D., D(ABMM)

Ellen Jo Baron is Professor Emerita of Pathology at Stanford University. She was the Director of the Clinical Microbiology & Virology Laboratory from 1997-2008, serving both the Stanford Adult and Packard Childrens Hospitals. She is currently Executive Director of Medical Affairs at Cepheid, a molecular diagnostics company. She is also the American Society for Microbiology (ASM) International Board liaison to the Pan American Health Organization (PAHO). Since 2006 she has presented her Basic Benchtop Micro learning program in multiple countries in Africa, Southeast Asia, Central and South America. She co-founded Diagnostic Microbiology Development Program, a non-governmental organization which supports laboratory capacity building in the developing world, currently most active in Cambodia. She has been honored by the ASM with the Alice Evans Award (1997) for women of science and service in microbiology, the bioMerieux Sonnenwirth Award for leadership in clinical microbiology (2000), and the ASM Founders' Award (2012). In 2003 and in 2008 she received teaching awards from Stanford Medical School and the Infectious Diseases Division. Prof. Baron served on the national CDC/CMS Clinical Laboratory Improvement Advisory Committee from 2006-2010. She was an editor or author of many standard diagnostic microbiology textbooks including Bailey & Scott's Diagnostic Microbiology editions 7-9 and the ASM Manual for Clinical Microbiology, editions 7-9; in addition to > 100 peer-reviewed publications and laboratory

practice guidelines. Her most recent guideline publication is "A Guide to Utilization of the Microbiology Laboratory for Diagnosis of Infectious Diseases: Recommendations by the Infectious Diseases Society of America and the American Society for Microbiology."



JENNIFER HAN, MD, MSCE

Jennifer H. Han, MD, MSCE is an Assistant Professor of Medicine (Division of Infectious Diseases), Assistant Professor of Epidemiology (secondary), Senior Scholar of the Center for Clinical Epidemiology and Biostatistics (CCEB), and Fellow of the Institute of Aging, all at Penn. She holds an MSCE from Penn, and is board certified in Internal Medicine and Infectious Diseases. Dr. Han is also the Associate Healthcare Epidemiologist at the Hospital of the University of Pennsylvania. She is the current recipient of a Career Development Award (K01) from the National Institute of Allergy and Infectious Diseases (NIAID/NIH), as well as an Early Stage Investigator (ESI) award from the Antibacterial Resistance Leadership Group (ARLG) funded by NIAID. Her research focuses on healthcare-associated infections, antibiotic use, and antibiotic-resistant organisms, with a specific focus on the post-acute care setting (e.g., long-term acute care hospitals, nursing homes).

JOHN MANFORD HURST, PHARMD, BCPS

John Manford Hurst, PharmD, BCPS Attended the University of Oklahoma College of Pharmacy and graduated with special distinction in 2010. He then spent the next year in Birmingham, Alabama completing the PGY-1 Pharmacy Practice Residency at UAB Hospital. From there he continued East to Charleston, South Carolina where he completed a PGY-2 Infectious Diseases Pharmacy Residency at the Medical University of South Carolina (MUSC), under the guidance of mentors Dr. John Bosso and Dr. Lisa Steed. MUSC hired Dr. Hurst as a Clinical Pharmacy Specialist of Infectious Diseases following his residency. His primary areas of research relate to antimicrobial stewardship and integration of rapid diagnostics into antimicrobial stewardship programs. After the birth of first child, Dr. Hurst returned to Oklahoma to be near family. Dr. Hurst joined SSM Health's St. Anthony Hospital in Oklahoma City in 2015 where he started a new Antimicrobial Stewardship Program.



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