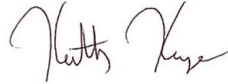


Date of Date of Preparation: 3-3-15



Keith Kaye, M.D., MPH

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Telephone: 313 745 4439

PERSONAL DATA:

EDUCATION:

Graduate:

Harvard School of Public Health, Harvard University, Boston, MA , graduated with MPH
7/98 – 6/00

The Training Course in Hospital Epidemiology for Infectious Diseases, Society for Health
Care Epidemiology of America 5/99

University of Pennsylvania School of Medicine, Philadelphia, PA 9/89 - 6/94
graduated with MD

Baccalaureate:

Yale University, New Haven, CT 9/85 - 5/89
graduated cum laude, with B.A. in psychology

TRAINING:

Beth Israel Deaconess Medical Center, Boston, MA 9/97 – 8/00
Infectious Diseases Fellow

Beth Israel Hospital, Boston, MA 6/94 - 6/97
Internal Medicine Residency

FACULTY APPOINTMENTS:

Detroit Medical Center and Wayne State University

Corporate Vice President of Quality and Patient Safety 8/1/12 –

Wayne State University MPH Program 8/1/10-

Wayne State University, Professor of Medicine 9/08-

Corporate Director, Department of Infection Prevention, Hospital Epidemiology and
Antibiotic Stewardship, Detroit Medical Center and Wayne State University

	9/1/08-
Duke University Medical Center (DUMC), Durham, NC	
Associate Professor of Medicine, DUMC	10/05- 9/08
Chair, Infection Control and Hospital Epidemiology, DUMC	6/04 – 9/08
Assistant Professor in Medicine, Infectious Diseases attending,	7/01-10/05
Chair, Antibiotic Evaluation Committee	1/01 – 9/08
Co-Chair, Duke Infection Control Outreach Network	9/00 – 9/08
Co-chair, Infection Control and Hospital Epidemiology	9/00 - 6/04
Associate in Medicine, Infectious Diseases attending	9/00 – 6/01

**HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS:
(Limit to key appointments -- in chronological order -- such as Division Head,
Surgeon General-HEW, Fulbright Scholar)**

MAJOR PROFESSIONAL SOCIETIES:

American Society for Microbiology, Division L, Chair-elect, 2014-current
Society for Healthcare and Epidemiology (SHEA), Councilor, IDWeek Planning
Committee, 1/13-present
Society for Healthcare and Epidemiology (SHEA), Education Committee Member, 1/13-
3/14
Society for Healthcare and Epidemiology (SHEA), Councilor, Board Member, 1/11 - 1/13
Society for Healthcare and Epidemiology (SHEA), Guidelines Committee, member, 1/09-
1/13
Society for Healthcare and Epidemiology (SHEA), Long Term Care Committee, member,
1/09- 1/10
The Healthcare-Associated Infection Allied Task Force, co-sponsored by SHEA and
IDSA, 2007-current
The American Geriatrics Society, Section on Integrating Medical Sub-specialties into
Geriatrics, Chairman, 2006 -current
American College of Physicians, fellow, 2006-current
Infectious Diseases Society of America (IDSA) fellow, 2006-current
Society for Healthcare and Epidemiology (SHEA), Fellow, 2005-current
Infectious Diseases Society of America, Special Interest Group in Geriatrics, Founding
Member, 10/05 - current
The Duke Center for the Study of Aging and Human Development, Senior Fellow, 10/03-
current
Association for Professionals in Infection Control and Epidemiology, 7/01-current
Society for Healthcare and Epidemiology (SHEA), member, 1/01- current
American Society of Microbiology, member, 9/99- current
Infectious Diseases Society of America (IDSA), member, 9/97- current

The American Geriatrics Society, member, 7/95 – current
Massachusetts Medical Society, member, 7/94 - current
American College of Physicians, member, 7/94 – current
American Medical Association, member, 7/94 - current

LICENSURE AND BOARD CERTIFICATION:

Infectious Diseases, 2010-2019, number 174040
Internal Medicine, 1997-2007

HONORS/AWARDS:

- 1) AOA Honorary Membership granted March, 2009.
- 2) Golden Apple Nominee for Excellence in Clinical Teaching from Duke Medical School, 2005 and 2008.
- 3) Joseph C. Greenfield, Jr. Faculty Award Nominee for mentorship of House Staff in the fundamentals of research, from Duke University Medical Center, 2004.
- 4) Mentored-Patient Oriented Research Career Development Award (1 K23 AG23621-01A1) 2004-2009. Title: "Hospital-acquired Infections in the Elderly". Purpose: to identify risk factors and quantify outcomes associated with surgical site infection and multi-drug resistant bacteria in elderly hospitalized patients. The results from these studies can be used to design and implement interventions to prevent hospital-acquired infections in the elderly and to improve the outcomes of elderly hospitalized patients.
- 5) Durham Regional Hospital General Medicine Teaching Award, 2002-2003.2) Maxwell Finland Young Investigator Award, Massachusetts Infectious Diseases Society, Beth Israel Deaconess Medical Center, Harvard Medical School, 2000.
- 6) T. Franklin Williams Young Investigator Award in Geriatrics, 2002 Infectious Diseases Society of America, Association of Subspecialty Professors and John A. Hartford Foundation/Elan Pharmaceuticals, 2002-2004.
- 7) Maxwell Finland Young Investigator Award, Massachusetts Infectious Diseases Society, Beth Israel Deaconess Medical Center, Harvard Medical School, 2000.
- 8) Cum Laude, Yale University, 1989.

SERVICE:

1. **Patient care, 2008-current, annual activity:** Infectious Diseases consults, DRH (1 month/year) and HUH (1 month/year)
2. **Professional consultation (other than patient care)**
 - a. **Public presentations as an expert in discipline:**
 1. 12-5-14: Presented at Anti-Infective Drugs Advisory Committee on "Unmet Need" for Ceftazidime-Avibactam.

b. Testimony before public bodies

c. Consulting to public agencies, foundations, professional associations

3. Joint Commission Resources: Consulting regarding Antimicrobial Resistance, 2008-2013

d. Consulting to private enterprises

1. The Medicines Compy/Rempex: Consulting regarding new antimicrobial development, 2012-present
2. Achaogen: Consulting regarding new antimicrobial development, 2012-present
3. Sage Products Inc: Consulting regarding infection control, 2010-2013
4. Actavis/Forest Pharmaceuticals: Consulting regarding antibiotics use, 2009-present
5. Merck/Cubist pharmaceuticals: Consulting regarding antibiotics use, 2006-present
6. Pfizer: Consulting regarding antibiotics use, 2009-present
7. Theradoc: Consulting regarding Infection Control, 2009- present
8. Ortho-Mcneil: Consulting regarding antibiotic use, 2007-2013
9. Xellia: Consulting regarding polymyxins use, 2014-present

4. Journal/Editorial activity

a. Editorships

1. Associate Editor, Open Forum Infectious Diseases, 1/14-current
2. Guest Editor, Infectious Diseases Clinics of North America; Infection Control; 2010
3. Guest Editor, Infectious Diseases Clinics of North America, Antibiotic Use, 2009

b. Editorial board memberships:

1. Editorial board, Antimicrobial Agents and Chemotherapy, 11/14-current
2. Section Editor, F1000 Prime, 2013-current
3. Associate Editor, Infectious Diseases News, 7/07 – current

5. Other professionally related service

6. National and international boards and committees

a. Positions held in professional associations

1. Writing member, The Healthcare-Associated Infection Allied Task Force, co-sponsored by SHEA and IDSA, guidelines for prevention of central line-related bloodstream infection, ventilator-associated pneumonia, surgical site infection, catheter-associated urinary tract infection, , Clostridium difficile, and Methicillin-resistant *Staphylococcus aureus*, Lead author on surgical site infection guidelines. 2013-present,
2. Society for Healthcare and Epidemiology (SHEA), Councilor, Board Member, 1/11 – 1/13
3. Member, SHEA guideline committee, 2009-2012
4. Member, SHEA, long term care committee, 2009-2010-current
5. Writing member, The Healthcare-Associated Infection Allied Task Force, co-sponsored by SHEA and IDSA, guidelines for prevention of central line-related bloodstream infection, ventilator-associated pneumonia, surgical site infection, catheter-associated urinary tract infection, , Clostridium difficile, and Methicillin-resistant *Staphylococcus aureus*, Lead author on surgical site infection guidelines. 2007-2008
6. Chairman, The American Geriatrics Society, Section on Integrating Medical Sub-specialties into Geriatrics, 2006 –2014

b. Memberships/offices held in public agencies related to discipline

7. State and local boards and committees

1. Member, Michigan Department of Community Health Initiative on Carbapenem-resistant Enterobacteriaceae, 2011-current
2. Member, Michigan Infectious Diseases Society, 2009-current
3. Chairmen, Southeastern Michigan Epidemiology Society, 2009-current
4. Member, Michigan Hospital Association Bloodstream Infection Workgroup, 2008-current

TEACHING:

1. Years at Wayne State

1. 2008-current

2. Years at other colleges/universities (please list)

1. 2000-2008, Duke University

3. Courses taught at Wayne State in last five years

a. Undergraduate

b. Graduate

c. Graduate Professional

d. Medical Students (Years I-IV)

1. Introduction to Quality and Patient Safety, 2013-current
1. Infection Control in the Hospital – 2009-current
2. Infection Control in the Hospital – 2005-2008 (Duke)

e. Residents/Fellows

1. Introduction to Quality and Patient Safety for DMC residents, 2013-current
2. Infection Control in the Hospital, Infectious Diseases Fellows, 2008-current
3. Infection Control in the Hospital, Infectious Diseases Fellows, 2001-2008, Duke
4. Antibiotic Prescribing in the Hospital, Internal Medicine Residents, 2001-2008, Duke

4. Essays/Theses/Dissertations directed (list students by name, level, title of project, year)

5. Course or curriculum development

1. Venous Thromboembolism (VTE) Prevention for Residents, Wayne State University and DMC residents, co-developer, 2013-current.
2. Influenza – Net Learning for DMC employees, 2009
3. Central Line Insertion – Online course geared towards Physicians; available at Duke University Medical Center and nationally. Creator, 2001

6. Course materials (unpublished)

7. Mentees

Shigehikio Karino, ID fellow, infectious diseases research, 2014-current

Nader Tashtoush, ID fellow, infectious diseases research, 2014-current

Bhagyashri Navalkele, ID fellow, infectious diseases research, 2014-current

Rebecca Kelly, medical student, infectious diseases research, 2014-current

Zubin Mukadam, medical resident, reserach and career, 2014-current

Zeinab Taman, MPH candidate, MPH curriculum, 2014-current

Regina Wang, MD, MPH candidate, MPH curriculum, 2014-current

Paul Lin, MPH cadidate, infection control, 2014-current

Lei Yu, MPH candidate, infection control, 2014-curent

Arafat Ali, DO candidate, infection control and reserach, 2014-current

Marina Milad, undergraduate, infection control and career, 2014-current

Alhusain Alsughayer, MPH candidate, MPH reserach project, 2013-current

Madiha Salim, residency candidate, infectious diseases reserach and career, 2013-curent

Gautam Balakrishnan, medical resident, MPH candidate, infectious diseases research and career, 2013-current

Natasha Bagdasarian, infectious diseases attending, infectious diseases research and career mentoring, 2013-current

David Van Duin, infectious diseases attending, infectious diseases research, 2013-current

Jacob Bundy, MPH candidate, Infection control, antimicrobial stewardship and research, 2013-2014

Carolyn Dombecki, MPH candidate, Infection control, antimicrobial stewardship and research, 2013-2014

Molly Roseland, MD candidate, infectious diseases research, 2013-2014

Arafat Ali, DO candidate, infectious diseases research, 2013-current

Christine Leonard, ID fellow, infectious diseases research, 2012-2014

Poorvi Chordia, ID fellow, infection control, 2013-2014

Aram Loeb, urology resident, infectious diseases reserach, 2013-current

Anupama Neelakanta, Infection Control Fellow, infection control and research, 2013-2014

Ashley Hall, MPH candidate, infectious diseases research and career mentor, 2012-2014

Sarit Sharma, Infection Control Fellow and medical attending, infection control and research, 2012-2014

Leah Steinke, ID Pharmd, career advisor and mentorship regarding antimicrobial stewardship, 2011-current

Ashish Bhargava, MD, ID fellow and attending, career advisor and mentorship regarding research and infection control, 2008-current

Caitlin Biedron, medical student, research and career mentorship, 2011-2014

Haider Rahbar, medical student, research and career mentorship, 2011-2014

Kyle Miletic, medical student, research and career mentorship, 2011-current

Victoria Yee, medical student, research and career mentorship, 2011-2014

Tal Mann, Infection Control Fellow and medical attending, infection control and research, 2011-current

Sameen Farooq, medical student, infectious diseases research and career mentor, 2011-current

Farah Ahmad, MPH student, MPH and career advisor, 2010-2014

Emily Toth Martin, Phd, career advisor and mentorship regarding research, 2010-current

Vicki Collins, MPH student, Medical Attending, career advisor and advisor regarding antimicrobial resistance research, 2010-2014

Ryan Mynatt, ID Pharmd, career advisor and mentorship regarding antimicrobial stewardship, 2010-current

Odaliz Abreulanfranco, ID Fellow – Infection Control and Antimicrobial Resistance, 2010-2012

Dror Marchaim, ID Fellow and junior faculty – Infection Control and Antimicrobial Resistance, 2009-2011

Kayoko Hayakawa, ID Fellow - Infection Control and Antimicrobial Resistance, 2009-2013

Kenetra Ruffin, Phd and MPH student – Infection Control processes, 2009-current

Jing Zhao, ID Pharmacist – Antibiotic Stewardship and Surgical Site Infection, 2009-current

Ryan Tansek, Medical Student – Infection Control and Antimicrobial Resistance, 2009-2012

Leslie Lemanek, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2011

Dania Hatchet, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2010

Jessica Slim, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2010

Jatinder Hothi, Medical Observer– Infection Control and Antimicrobial Resistance, 2009-2010

Shatha Alkatib, Medical Observer– Infection Control and Antimicrobial Resistance, 2009-2011

Hiro Rahbar, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2011

Naasha Gheyara, Medical Observer – Infection Control and Surgical Site Infection, 2009-2011

Kimberly Ku, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2012

Christopher Blunden, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2012

Christopher Bogan, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2014

Suchitah Bheemreddy, Medical Observer – Antimicrobial Resistance, 2009-2011

Noelle Morey, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2011

Asma Hasan, Medical Student– Infection Control and Antimicrobial Resistance, 2009-2011

Sylvia Whittington, MPH student - Infectious complications among gunshot victims with decubitus ulcers. 2009-2010

Chandar Ala, Internal Medicine Resident. ESBL Infections: risk factors and outcomes. 2008-2009

Namir Khandekar, Medical Student. Shunt Infections Among Pediatric Patients. 2008-2011

Teena Chopra, Infectious Diseases Fellow, ID attending. Risk factors and outcomes associated with ESBL Infections. I am also Teena's mentor in the discipline of Infection Control and Antibiotic Stewardship. 2008-current

Tara Reddy, Medical Student. Acinetobacter Susceptibilities at DMC. 2008-2010

Miriam Levine, Medical Student. Infectious complications among gunshot victims with decubitus ulcers. 2008-2011

Khawar Chaudry, Medical Student. Acinetobacter among nursing home patients in Southeastern MI. 2008-2011

Sorabh Dhar, Infectious Diseases Attending. Shunt Infections Among Pediatric Patients. 2008-current

Jason Pogue, ID PharmD. Colistin use: efficacy and toxicity. 2008-current

Ravina Kullar, PharmD fellow in ID. MRSA bacteremia in older adults. 2008-current

Thientu Truong, Internal Medicine Resident. ESBL Infections: risk factors and outcomes. 2008-2010

Ting Yi Chen, Internal Medicine Resident. Surgical site and bloodstream infections in older adults. 2007-2011

Luke Chen, ID fellow. Risk factors for inappropriate therapy for invasive infection due to methicillin-resistant Staphylococcus aureus (MRSA). 2007-2008

Keith Cummings, Medical Student. Quantifying the cost of non-compliance with hand hygiene. 2007-2009

Jay Varkey, ID fellow. Identifying risk factors for catheter-related bloodstream infection in the elderly and developing methods to prevent these infections. 2006-2008

Andrew Munroe, Medical Student. Developing novel methods to measure compliance with hand hygiene utilizing RFID technology. 2006-2008

Carrie Herzke, Medical Resident. Analyzing risk factors for ineffective therapy for bloodstream infection due to MRSA. 2006-2008

Jane Trinh, medicine-pediatrics resident. Analyzing outcomes of patients with hospital-acquired pneumonia. Analyzing outbreak of adenovirus at DUMC. 2004-2008

Ravi Karra, medical student. Identifying predictors of 1-year mortality among patients with post-operative mediastinitis. 2004-2007

Jeanne Lee, medical student. Quantifying the impact of surgical site infection on clinical outcomes of elderly patients. Analyzing the impact of SSI on functional status. 2004-2006

Stephen Weber, ID attending (University of Chicago). Multi-drug resistant bacteria in the elderly. 2004-2007

Elizabeth Dodds Ashley, ID pharmacist. Studying risk factors for post-operative mediastinitis due to MRSA. Analyzing epidemiology of antibiotic use at DUMC. 2003-2007

Tahaniyat Lalani, medical resident. Designing unique ways to utilize antibiogram data. 2003-2008

Robert Singletary, medical student. Identifying risk factors for SSI following orthopedic surgery. 2003-2004

Ken Carson, medical Resident. Studying chemotherapeutic agents as risk factors for Clostridium difficile. 2003-2004

Deverick Anderson, medical resident. Analyzing outcomes of patients with bloodstream infection due to multi-drug resistant *Klebsiella pneumoniae*. 2002-2007

Jay McDonald, ID Fellow. Studying the appropriateness of therapy for healthcare associated bloodstream infection. Analyzing outbreak of adenovirus at DUMC. 2002-2006

Neal Axon, medicine-pediatrics resident. Analyzing data related to targeted active surveillance for vancomycin-resistant enterococcus (VRE). 2002-2004

Kristine Schmit, MD/MPH student. Analyzing the impact of age on the risk for SSI. 2002-2003

Lisa McDermott, medical resident. Identifying predictors of 1-year mortality among patients with post-operative mediastinitis. 2002-2003

John Engemann, ID Fellow and ID attending. Studying the impact of methicillin-resistant *Staphylococcus aureus* (MRSA) on clinical patient outcomes. Sponsor for Dr. Engemann's CDC grant "Applied Research on Antimicrobial Resistance: Estimates of Economic Cost for Antimicrobial Resistant Human Pathogens of Public Health Importance." 2001-2005

Sarah McGarry, ID Fellow. Identifying predictors of mortality and prolonged extubation among patients with hospital-acquired pneumonia. Analyzing the impact of surgical site infection (SSI) on clinical outcomes of elderly patients. 2001-2003

Melissa Johnson, ID pharmacist. Studying outcomes of patients with candidemia. Analyzing epidemiology of antibiotic use at DUMC. 2001-2007

Christopher Woods, ID fellow, ID attending. Studying risk factors for and outcomes associated with bacteremia due to *Burkholderia cepacia*. 2001-2005

Adam Bressler, medicine-pediatrics resident. Studying risk factors for and outcomes associated with bacteremia due to *Burkholderia cepacia*. 2001-2003

Chris Moore, medical student. Studying risk factors for and outcomes associated with bacteremia due to *Burkholderia cepacia*. 2001-2003

Deborah Friedman, ID Fellow. Re-defining healthcare-associated bloodstream infection. 2000-2002

GRANT SUPPORT:

(List in chronological order current and previous grant funding with comprehensive information such as agency, title, dollars awarded, period of award, PI, etc; include approved but not funded grant applications; appointments with tenure must include grant activity for the last ten years)

	<u>PI</u>	<u>% Effort</u>	<u>Purpose</u>	<u>Amount</u>	<u>Funding organization</u>	<u>Duration</u>
1	Howard Gold	75%	Develop techniques in the field of molecular epidemiology	\$120,000	CDC	1998-2000
2	Keith Kaye	75%	Nosocomial Infections in the Elderly	\$75,000	IDSA and Hartford Foundation	2002-4
3	Melissa Johnson	10%	Outcomes of patients with candidemia	\$683,000	NIH	2002-7
4	Kenneth Wilson	10%	Interaction Between <i>Clostridium difficile</i> and commensals	\$300,000	NIH	2003-5
5	Keith Kaye	10%	Antimicrobial therapy and outcomes in geriatric patients	\$40,000	Wyeth Ayerst	2003-2004
6	Keith Kaye	10%	The association between fluorquinolone exposure and resistance in <i>Pseudomonas</i>	\$22,000	Bayer	2003-2004
7	John Engemann	5%	<i>Staphylococcal aureus</i> surgical site infection clinical and fiscal health outcomes	\$250,000	CDC	2004-7
8	Keith Kaye	10%	MRSA in a network of community hospitals	\$100,000	Pfizer	2004-2005
9	Yehuda Carmeli	5%	Risk factors for mortality in patients with MRSA bacteremia	\$20,000	Pfizer	2005-2006
10	Vance Fowler	5%	<i>Staphylococcus aureus</i> infections after cardiac surgery	\$17,000	Merck	2005-2006
11	Keith Kaye	5%	Validity of retrospective functional status and data collection	\$12,000	Claude D. Pepper Center	2004-2006
12	Keith Kaye	10%	Daptomycin for pre-operative antibiotic prophylaxis	\$113,000	Cubist	2004-2008
13	Keith Kaye	75%	Nosocomial infections in geriatric patients	\$504,000	NIH	2004-2009
14	Keith Kaye	10%	<i>Staphylococcus aureus</i> infections after surgery	\$600,000	Merck	2008-2010
15	Keith Kaye	10%	Evaluation of In Vitro Susceptibilities of Multi-Drug Resistant Gram-Negative Organisms	\$368,995	Pfizer	2009- 2011
16	Keith Kaye	5%	Cefepime for Gram-negative Infections	\$47,500	Merck	2009- 2010
17	Keith Kaye	5%	Carbapenem-sparing	\$25,000	Merck	2009- 2012

			de-escalation protocols			
18	Keith Kaye	5%	Antimicrobial Stewardship Infrastructure	\$50,000	Wyeth-Ayerst	2009-2011
19	Keith Kaye	5%	Theradoc and treatment of Gram-negative bacteremia	\$50,000	Merck	2010-current
20	Keith Kaye	50%	Treatment of extremely-drug resistant Gram-negative bacilli	\$17,000,000	NIH	2010- current
21	Keith Kaye	5%	VRE risk and outcomes	\$50,000	Pfizer	2011-current
22	Keith Kaye	5%	VRE risk and outcomes	\$40,000	Cubist	2011- current
23	Keith Kaye	5%	Environmental infection control	\$167,000	Sage	2011-current
24	Keith Kaye	5%	VRE and MRSA co-colonization	\$14,400	CDC	2011-current
25	Keith Kaye	5%	Teflaro use and outcomes	\$13,500	Cerexa/ Reistrat, Inc.	2012-current
26	Keith Kaye	5%	CTX-M producing <i>Escherichia coli</i>	\$23,000	Cubist	2012-current
27	Keith Kaye	10%	Environmental infection control	\$96,500	EcoLab, Inc.	2012-current
28	Keith Kaye	5%	Ceftaroline MIC determination for Gram-negative bacilli	\$20,000	Forest Research Institute, Inc.	2012-current
29	Keith Kaye	5%	Complicated urinary tract infection - epidemiology	\$29,000	Merck	2013-current
30	Keith Kaye	5%	Ventilator-associated conditions	\$40,000	Carefusion	2013-current

31	Keith Kaye	5%	MRSA and Pseudomonas epidemiology	\$39,000	Johns Hopkins University	2013-current
32	Keith Kaye	5%	UV disinfection of operating rooms	\$20,000	Xenex	2013-current
33	Keith Kaye	2%	CAPTURE-Clinical Assessment Program and Teflaro Utilization Registry. A Multicenter, Retrospective Chort Study to Characterize the use of Teflaro.	\$12,000	Cerexa	2012-current
34	Keith Kaye	5%	Blood Pressure Cuff's Role in Transmission of C. Difficile	\$83,000	Welch Allyn	2014-current
35	Keith Kaye	5%	Collection of Blood Samples for Nonclinical Laboratory Research to Characterize Acenetobacter baumannii Antibodies.	\$20,000	Intrexon	2014-current
36	Keith Kaye	5%	A Multi-Center, Observational Study of Cases with Serious Infections Due to Carbapenem-Resistant Enterobacteriaceae	\$16,300	Rempex	2014-current
37	Keith Kaye	5%	A Phase 3, Multi-Center, Radomized, Open Label Study of Carbavance vs. Best Available Therapy	\$106,000	Rempex	2014-curent
38	Keith Kaye	5%	A Retrospective Cohort Study of Treatment Outcomes in Patients with ST131 Versus non-ST132 ESBL-producing E. coli	\$55,000	Cubist	2014-current

CLINICAL TRIALS ACTIVITIES

HHSN272201000039C Kaye (Project PI) Targeted Clinical Trials to Reduce the Risk of Antimicrobial Resistance. This NIAID contract with options supports a multi-center clinical trial studying the antimicrobial therapy of extensively drug-resistant Gram-

negative bacilli. NIH/NIAID. \$2,343,295 for current contract period; anticipate total project budget ~ \$17,000,000 09/27/10-02/28/2014

PUBLICATIONS:

Referred

1. Pollack CV Jr, Amin A, Ford WT Jr, Finley R, Kaye KS, Nguyen HH, Rybak MJ, Talan D. Acute Bacterial Skin and Skin Structure Infections (ABSSSI): Practice Guidelines for Management and Care Transitions in the Emergency Department and Hospital. *J Emerg Med*. 2015. Epub ahead of print
2. Chopra T, Marchaim D, Johnson PC, Awali RA, Doshi H, Chalana I, Davis N, Zhao JJ, Pogue JM, Parmar S, Kaye KS. Risk factors and outcomes for patients with bloodstream infection due to *Acinetobacter baumannii-calcoaceticus* complex. *Antimicrob Agents Chemother*. 2014;58(8):4630-5.
3. van Duin D, Cober ED, Richter SS, Perez F, Cline M, Kaye KS, Kalayjian RC, Salata RA, Evans SR, Fowler VG Jr, Bonomo RA. Tigecycline therapy for carbapenem-resistant *Klebsiella pneumoniae* (CRKP) bacteriuria leads to tigecycline resistance. *Clin Microbiol Infect*. 2014;20(12):O1117-20.
4. Yokoe DS, Anderson DJ, Berenholtz SM, Calfee DP, Dubberke ER, Ellingson KD, Gerding DN, Haas JP, Kaye KS, Klompas M, Lo E, Marschall J, Mermel LA, Nicolle LE, Salgado CD, Bryant K, Classen D, Crist K, Deloney VM, Fishman NO, Foster N, Goldmann DA, Humphreys E, Jernigan JA, Padberg J, Perl TM, Podgorny K, Septimus EJ, VanAmringe M, Weaver T, Weinstein RA, Wise R, Maragakis LL. A Compendium of Strategies to Prevent Healthcare-Associated Infections in Acute Care Hospitals: 2014 Updates. *Am J Infect Control*. 2014;42(8):820-8.
5. Steed ME, Hall AD, Salimnia H, Kaatz GW, Kaye KS, Rybak MJ. Evaluation of Daptomycin Non-Susceptible *Staphylococcus aureus* for Stability, Population Profiles, mprF Mutations, and Daptomycin Activity. *Infect Dis Ther*. 2013;2(2):187-200.
6. Morgan DJ, Kaye KS, Diekema DJ. Reconsidering isolation precautions for endemic methicillin-resistant *Staphylococcus aureus* and vancomycin-resistant *Enterococcus*. *JAMA*. 2014;312(14):1395-6.
7. Albrecht VS, Zervos MJ, Kaye KS, Tosh PK, Arshad S, Hayakawa K, Kallen AJ, McDougal LK, Limbago BM, Guh AY. Prevalence of and risk factors for vancomycin-resistant *Staphylococcus aureus* precursor organisms in Southeastern Michigan. *Infect Control Hosp Epidemiol*. 2014;35(12):1531-4.
8. Nation RL, Li J, Cars O, Couet W, Dudley MN, Kaye KS, Mouton JW, Paterson DL, Tam VH, Theuretzbacher U, Tsuji BT, Turnidge JD. Framework for

optimisation of the clinical use of colistin and polymyxin B: the Prato polymyxin consensus. *Lancet Infect Dis.* 2014;15(2): 225-34.

9. van Duin D, Cober E, Richter SS, Perez F, Kalayjian RC, Salata RA, Evans S, Fowler VG Jr, Kaye KS, Bonomo RA. Impact of therapy and strain type on outcomes in urinary tract infections caused by carbapenem-resistant *Klebsiella pneumoniae*. *J Antimicrob Chemother.* 2014. Epub ahead of print.
10. Neelakanta A, Sharma S, Kesani VP, Salim M, Pervaiz A, Aftab N, Mann T, Tashtoush N, Karino S, Dhar S, Kaye KS. Impact of Changes in the NHSN Catheter-Associated Urinary Tract Infection (CAUTI) Surveillance criteria on the Frequency and Epidemiology of CAUTI in Intensive Care Units (ICUs). *Infect Control Hosp Epidemiol.* 2015;36(3):346-9.
11. Awali RA, Samuel PS, Marwaha B, Ahmad N, Gupta P, Kumar V, Ellsworth J, Flanagan E, Upfal M, Russell J, Kaplan C, Kaye KS, Chopra T. Understanding health care personnel's attitudes toward mandatory influenza vaccination. *Am J Infect Control.* 2014;42(6):649-52.
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149. Schechner, V, Nobre, VA, Kaye, KS, Giladi, M, Rohner, P, Harbarth, S, Anderson, DJ, Schwaber, M, Carmeli, Y. Bacteremia Upon Hospital Admission (UHA): Should Pseudomonas aeruginosa (PA) be Suspected? 44th Annual Meeting of the Infectious Diseases Society of America, Toronto, Ontario, Canada, October 2006
150. Engemann, JJ, Schmader, KE, Sloane, R, Sexton, DJ, Fowler, VG, Carmeli, Y, Kaye, KS. Nosocomial Staphylococcus aureus (SA) Blood Stream Infection (BSI) in the Elderly is Associated with High Rates of Mortality. 43rd Annual Meeting of the Infectious Diseases Society of America, San Francisco, CA, October 2005.
151. Lee, J, Schmader, Ke, Sloane, R, Kaye, KS. The impact of surgical site infection (SSI) on duration of hospitalization among elderly patients following orthopedic surgery. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.
152. McDonald, JR, Engemann, JJ, Anderson, DJ, Clark, C, Boyette, D, Adcock, L, Sexton, DJ, Kaye, KS. Increasing Burden of Community-acquired (CA) Pneumonia and Skin Infections Caused by Methicillin-resistant Staphylococcus aureus (MRSA) in a Network of Community Hospitals. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.

153. Trinh, JV, Connelly, SM, Johnson, MD, Dodds-Ashley, EA, Engemann, JJ, Stout, J, Friedman, ND, Kaye, KS. Predictors of Time to Extubation among Patients (Pts) with Hospital-Acquired Pneumonia (HAP) Managed in the Intensive Care Unit (ICU). 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.
154. Depuy, V, Kauf, TL, Kaye, KS, Reller, LB, Schulman, KA, Fowler, VG. Mortality, Duration of Hospitalization, and Cost Associated with Infection Site and Incremental Antimicrobial Resistance in *Streptococcus pneumoniae*. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.
155. McDonald, JR, Trinh, JV, Carricker, CM, Engemann, JJ, Oden, MA, Harrell, LJ, Tanaka, DT, Goldberg, RN, Sexton, DJ, Kaye, KS. Inter-Hospital Transfer as a Vehicle for Spread of Methicillin-Resistant *Staphylococcus aureus* (MRSA) between Nurseries. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.
156. Hollowell, S, Kaye, KS, Townsend, ML, Wilson, K, Johnson, MD. Achievement of NCEP Goals is Less Frequent among HIV Versus Non-HIV Infected Veterans with Dyslipidemia. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.
157. Schwaber, MJ, Navon-Venezia, S, Kaye, KS, Ben-Ami, R, Schwartz, D, Carmelli, Y. Economic Impact of Bacteremia with Extended-Spectrum β -Lactamase (ESBL)-Producing Enterobacteriaceae. 45th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, December 2005.
158. Engemann, JJ, McDonlad, JR, Rutala, WA, Weber, DJ, Gergen, MF, Gregg, LA, Schneider, LL, Padgette, PW, Sexton, DJ, Frush, KS, Kaye, KS. Contamination of Surgical Instruments with Hydraulic Fluid During Cleaning Did Not Affect Sterilization. 15th Annual Society for Healthcare Epidemiology of America meeting, Los Angeles, CA, April, 2005.
159. Chu, VH, Friedman, JY, Reed, SD, Levin, S, Griffiths, RI, Crosslin, DR, Masselink, LE, Kanafani, ZA, Kaye, KS, Corey, GR, Fowler, VG. Clinical Outcomes and Costs Due to *Staphylococcus aureus* Bacteremia among Patients with Orthopedic Devices. 15th Annual Society for Healthcare Epidemiology of America meeting, Los Angeles, CA, April, 2005.
160. Trinh, JV, Kaye, KS, Carriker, CM, Erdman, DD, Oden, M, Garges, HP, Martin, PL, Lus, X, Prasad, VK, Henshaw, NG, McDonald, JR. Risk Factors for Acquisition of Adenovirus Serotype 12 (AD12) During an Outbreak in a Pediatric Bone Marrow Transplant (BMT) Unit. 15th Annual Society for Healthcare Epidemiology of America meeting, Los Angeles, CA, April, 2005.
161. Lee, J, Schmader, KE, Sloane, R, Kaye, KS. The Impact of Surgical Site

- Infection on Mortality in Elderly Patients Following Orthopedic Surgery. 15th Annual Society for Healthcare Epidemiology of America meeting, Los Angeles, CA, April, 2005.
162. Anderson, DJ, Engemann, JJ, Harrell, LJ, Reller, LB, Carmeli, Y, Kaye, KS. Predictors of Mortality in Patients with Ceftazidime-Resistant *Klebsiella pneumoniae* (CAZ-R Kp) Bloodstream Infection (BSI), Abstract K-1856, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 163. Depuy, V, Fowler, VG, Talati, N, Kauf, TL, Reller, LB, Schulman, A, Kaye, KS. Mortality, Duration of Hospitalization and Cost Associated with Incremental Antimicrobial Resistant in *Pseudomonas aeruginosa*, Abstract K-1553, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 164. McGregor, JC, Perencevich, EN, Bradham, DD, Furuno, JP, Kaye, KS, Fink, JC, Langenberg, P, Roghmann, M, Paterson, DL, Harris, AD. Revised Chronic Disease Score (CDS) for Use in Epidemiologic Investigations of Antibiotic-Resistant Infections, Abstract K-1551, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 165. Bhalodia, J, Sogol, EM, Kaye, KS, Wilson, K, Johnson, MD. Effectiveness of Lipid Lowering Therapy (LLT) among HIV-Infected Subjects with HAART-Associated Hyperlipidemia, Abstract H-155, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 166. Kaye, KS, Dodds-Ashley, E, Engemann, JJ, Weber, SG, Carmeli, Y. Risk Factors for Quinolone-Resistant (QR) *Pseudomonas aeruginosa* (PA): The Effects of Levofloxacin (LEVO) and Ciprofloxacin (CIP), Abstract C2-1346, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 167. Kaye, KS, Harris, AD, Strausbaugh, LJ, Sexton, DJ, Perencevich, EN. Acceptable Failure Rates for Therapy of Community-Acquired Pneumonia: Viewpoint of Infectious Diseases Consultants, Abstract L-904, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 168. McDonald, JR, Carriker, CM, Engemann, JJ, Oden, MA, Garges, HP, Lu, X, Erdman, D, Martin, PL, Prasad, VK, Henshaw, NG, Kaye, KS. Outbreak and Control of Adenovirus Type 12 in a Pediatric Bone Marrow Transplant (BMT) Unit, Abstract K-879, 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC, October 30-November 2, 2004
 169. Chu, VH, Friedman, JY, Reed, SD, Cabell, CH, Kaye, KS, Crosslin, DR, Masselink, LE, Griffiths, RI, Stryjewski, ME. *Staphylococcus aureus* Bacteremia in Patients with Prosthetic Devices: Costs and Outcomes, Abstract K-757, 44th

Interscience Conference on Antimicrobial Agents and Chemotherapy,
Washington, DC, October 30-November 2, 2004

170. Singletary, RL, Schmader, KE, Sloane, R, Caughlan, K, Kaye, KS. Risk Factors for Surgical Site Infection (SSI) in Elderly Patients Following Orthopedic Surgery, Abstract 286, 42nd Annual Meeting of the Infectious Diseases Society of America, Boston, MA, September 30-October 3, 2004
171. Kaye, KS, Sloane, R, Caughlan, K, Sexton, DJ, Schmader, KE. Surgical Site Infection (SSI) Increases Mortality and Duration of Hospitalization in Elderly Patients, Abstract 285, 42nd Annual Meeting of the Infectious Diseases Society of America, Boston, MA, September 30-October 3, 2004
172. Kaye K, Caughlan K, Sloane RJ, Sexton DJ and Schmader KA. Risk Factors for Surgical Site Infections (SSI) in the Elderly: A Multi-center Study, Program and abstracts of the American Geriatrics Society Annual Meeting, Las Vegas, NV, 2004.
175. McGregor, JC, Perencevich, EN, Bradham, DD, Furuno, JP, Kaye, KS, Fink, JC, Harris, AD. The utility of the chronic disease score and charlson comorbidity index in predicting clinical culture positivity for antibiotic-resistant organisms, 14th Annual Society for Healthcare Epidemiology of America meeting, Philadelphia, PA, 2004.
174. Perencevich, E, Kaye, KS, Strausbaugh, LJ, Bradham, D, Fisman, DN, Harris, AD. Acceptable failure rates for therapy of central venous catheter associated bacteremia: a survey of infectious disease physicians and implications for antibiotic therapy and resistance, 14th Annual Society for Healthcare Epidemiology of America meeting, Philadelphia, PA, 2004.
175. McDonald, JR, Friedman, ND, Stout, J, Engemann, JJ, Sexton, DJ, Kaye, KS. Healthcare-associated status predicts ineffective therapy among patients with bloodstream infection, 14th Annual Society for Healthcare Epidemiology of America meeting, Philadelphia, PA, 2004.
176. Butcher, JW, Thornton, VG, Lockamy, K, Kaye, KS. Control of Nosocomial Vancomycin-Resistant (VRE) Acquisition Through Active Surveillance of Dialysis Patients, Abstract 258, 13th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Arlington, VA, April 5-8, 2003
177. Ferguson, LJ, Oden, MA, Bronstein, M, Evans, S, Vereen, S, Alexander, K, Kaye, KS. Storage of Human Breast Milk, Lessons Learned from a Near Miss, Abstract 179, 13th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Arlington, VA, April 5-8, 2003
178. Engemann, JJ, Oden, MA, Bronstein, M, Smith, PK, Sexton, DJ, Kaye, KS. Aggressive Glycemic Control and a Change of Antimicrobial Prophylaxis are Associated with a Reduced Rate of Postoperative Mediastinitis (POM) in an Academic Medical Center, Abstract 103, 13th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Arlington, VA, April 5-8, 2003

179. Engemann, JJ, Woods, CW, Oden, MA, Evans, S, Ferguson, L, Sena-Soberano, A, Blocker, ME, Kaye, KS. Development of a Multidisciplinary Biodefense (BD) Task Force and Training BD Response Teams within a Tertiary Care Health System, Abstract 70, 13th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Arlington, VA, April 5-8, 2003
180. Kaye, KS, Fulmer, EM, Engemann, JJ, Clark, C, Sexton, DJ. Beneficial Impact of Duke Infection Control Outreach Network on Nosocomial Infection Rates at Community Hospitals, Abstract 30, 13th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Arlington, VA, April 5-8, 2003
181. McDonald, JR, Engemann, JJ, Fulmer, E, Clark, C, Kaye, KS, Sexton, DJ. The Epidemiology of Methicillin-Resistant Staphylococcus aureus (MRSA) in 8 Community Hospitals in the Duke Infection Control Outreach Network (DICON), 41st Infectious Diseases Society of America National Meeting, San Diego, CA 2003
182. Schmit, KM, Sloane, RJ, Pieper, CF, Caughlan, KF, Stout, JE, Sexton, DJ, Schmader, KE, Kaye, KS. The Relationship Between Increasing Age and Surgical Site Infections (SSI), 41st Infectious Diseases Society of America National Meeting, San Diego, CA, 2003
183. Kaye, KS, Caughlan, K, Sloane, R, Sexton, DJ, Schmader, KA. Risk Factors for Surgical Site Infections (SSI) in the Elderly, 41st Infectious Diseases Society of America National Meeting, San Diego, CA, 2003
184. Heuts, LM, Dodds-Ashley, E, Johnson, MD, Kaye, KS. An Evaluation of Health Care Practitioner's Knowledge of Safety Labeling of the Respiratory Fluoroquinolones, 41st Infectious Diseases Society of America National Meeting, San Diego, CA, 2003
185. Cosgrove, SE, Kaye, Ks, Song, X. Assessing the Association of Antecedent Antimicrobial (AM) Exposure and Vancomycin Resistant Enterococcus (VRE) Acquisition, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2003
186. Pleasants, RA, Brown, T, Doares, W, Dodds-Ashley, E, Latour, J, Johnson, M, Coleman, A, Kaye, KS. Defining Initial Antibiotic Use in a Hospital Setting: A Simple, Effective Approach, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2003
187. Reed, SD, Szczech, LA, Kaye, KS, Friedman, JY, Engemann, JJ, Stryjewski, ME, Griffiths, RI, Reller, LB, Corey, GR, Fowler, VG. Methicillin-Resistant Staphylococcus aureus Leads to Higher Inpatient Costs, Longer Hospital Stays, and Higher Mortality in End-Stage Renal Disease Patients on Hemodialysis, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2003
188. McDermott, LA, Engemann, JJ, McGarry, SA, Caughlan, K, Smith, PK, Sexton,

- DJ, Kaye, KS. Risk Factors for One-Year Mortality Among Patients with Post-Operative Mediastinitis (POM), 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
189. Harris, AD, Carmeli, Y, Samore, MH, Kaye, KS, Perencevich, EN. Another Potential Bias in Case-Control Studies of Antimicrobial-Resistant Organism, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 190. Johnson, MD, Perfect, JR, Smith, LL, Kaye, KS. Epidemiology and Mortality of Nosocomial Candidemia with Stratification According to Age: Poor Prognosis for the Elderly, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 191. Johnson, MD, Dodds-Ashley, E, Kaye, KS, Ely, T, Perfect, JR. Impact of Voriconazole on Antifungal Expenditures at a Tertiary Care Medical Center, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 192. MacDougall, C, Gouveia-Pisano, JA, Dodds-Ashley, E, Johnson, MD, Kaye, KS, Perfect, JR. An Evaluation of the Usage and Safety of Voriconazole Following its Introduction at a Tertiary Care Medical Center, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 193. Anderson, DJ, Engemann, JJ, Caughlan, K, Harrell, LJ, Reller, LB, Kaye, KS. Predictors of Adverse Clinical Outcomes Among Patients with Infection Due to Ceftazidime-resistant *Klebsiella pneumoniae*, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 194. Engemann, JJ, Joyce, MJ, Harrell, LJ, Evans, SA, Reller, LB, Sexton, DJ, Kaye, KS. Outbreak of Linezolid-resistant *Enterococcus faecium* Bloodstream Infections on an Oncology Ward, 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003,
 195. Engemann, JJ, Friedman, JY, Reed, SD, Griffiths, RI, Szczech, LA, Kaye, KS, Stryjewski, ME, Reller, LB, Corey, GR, Fowler, VG. Clinical Outcomes and Economic Costs Due to *S. aureus* Bacteremia (SAB) Among Hemodialysis-Dependent (HD) Patients 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 196. Ashley, ED, Johnson, MD, Stone, A, Engemann, JJ, Pleasants, RA, Kaye, KS. Monitoring Respiratory Fluoroquinolone Use at a Tertiary Care Medical Center. 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, Il, 2003
 197. Fowler, V, McLachlan, D, Simel, D, Cabell, C, Pieper, K, Smith, P, Levin, S, Kaye, KS, Sexton, D, Reller, LB, Corey, GR, Oddone, EZ. Clinical Value of Blood Culture Results in the Identification of Postoperative Mediastinitis. 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA, 2002, Abstract 1807

198. Carroll, DN, Dodds, ES, Engemann, JJ, Harris, AD, Fowler, VG, Sexton, DJ, Kaye, KS. Risk Factors for Post-Operative Staphylococcus aureus (SA) Mediastinitis: Methicillin Resistant (MR) and Methicillin Susceptible (MS). 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA, 2002, Abstract 1806
199. Engemann, JJ, Carmeli, Y, Dodds, ES, McDonald, JR, Fowler, VG, Sexton, DJ, Kaye, KS. Methicillin Resistance (MR) and Adverse Outcomes among Patients with Staphylococcus aureus (SA) Post-Operative Mediastinitis (POM): Mortality, Hospital Days (HD), and Hospital Charges (HC). 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA, 2002, Abstract 579
200. Kaye, KS, Engemann, JJ, Mozaffari, E, Carmeli, Y. Outcomes Related to Vancomycin Resistant Enterococcus (VRE) and Methicillin Staphylococcus aureus (MRSA); a Comparison of Two Types of Control Groups. 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA, 2002, Abstract 111
201. Carmeli, Y, Samore, M, Kaye, K, Cosgrove, S, Perencevich, E, Schwaber, M, Harbarth, S, Harris, A. Combination Beta-lactam (BL) with Aminoglycosides (AG) vs BL with Ciprofloxacin (CIP) in Preventing Emergence of BL-resistant (R) Pseudomonas aeruginosa (PA). 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA, 2002, Abstract 1943
202. Friedman, N, MCGarry, S, Engemann, J, Fulmer, E, Clark, C, Sexton, D, Kaye, KS. Surgical Site Infections in Community Hospitals and the Impact of MRSA: A Report from the Duke Infection Control Outreach Network. 12th Annual Society for Healthcare Epidemiology of America meeting, Salt Lake City, UT, 2002, abstract 151.
203. MCGarry, S, Friedman, N, Fulmer, E, Clark, C, Sexton, D, Kaye, K. Performance of the National Nosocomial Infections Surveillance Risk Index in Community Hospitals in the Duke Infection Control Outreach Network. 12th Annual Society for Healthcare Epidemiology of America meeting, Salt Lake City, UT, 2002, abstract 128.
204. Kaye, KS, Oden, M, Engemann, J, Bressler, A, Woods, C. The Threat of Anthrax at a Tertiary Care Referral Hospital: Response of an Infection Control Unit and Establishment of Infrastructure. 12th Annual Society for Healthcare Epidemiology of America meeting, Salt Lake City, UT, 2002, abstract 132.
205. MCGarry, S, Engemann, J, Bronstein, M, Schmader, K, Kaye, KS. Outcomes in Geriatric Patients with Staphylococcus aureus Surgical Site Infections: Hospital Charges, Hospital Days and Mortality. 12th Annual Society for Healthcare Epidemiology of America meeting, Salt Lake City, UT, 2002, abstract 109.
206. Bronstein, M, Sexton, D, Kaye, KS. Gown Utilization as a Measure of Cost of Methicillin-Resistant Staphylococcus aureus Screening. 12th Annual Society for Healthcare Epidemiology of America meeting, Salt Lake City, UT, 2002, abstract 47

207. Engemann, JE, Fulmer, E, Clark, C, Sexton, D, Kaye, KS. The Impact of Resistance on Infection Control Units in Community Hospitals in the Duke Infection Control Outreach Network. 12th Annual Society for Healthcare Epidemiology of America meeting, Salt Lake City, UT, 2002, abstract 9.
208. Schwaber, MJ, Kaye, KS, Venkataraman, L, Gold, HS. Plasmid-Mediated CMY-2 b-Lactamase in Nonsocomial Escherichia coli. 39th Infectious Diseases Society of America National Meeting, San Francisco, CA, 2001, Abstract 563.
209. Bressler, A, Woods, C, Kaye, KS, Alexander, B, Moore, C. "Burkholderia cepacia Bacteremia (BCB): Epidemiology and Outcomes at a University Hospital." 39th Infectious Diseases Society of America National Meeting,, San Francisco, CA, 2001, abstract 223.
210. Kaye, KS, Fulmer, E, Sexton, DJ. "The Epidemiology of Methicillin-Resistant Staphylococcus aureus (MRSA) and Vancomycin-Resistant Enterococci (VRE) in North Carolina (NC) Community Hospitals: A Prospective Study from the Duke Infection Control Outreach Network (DICON)." 39th Infectious Diseases Society of America National Meeting, San Francisco, CA, 2001, abstract 207.
211. Kaye, KS, Stalam, M, Shershen, WE, Kaye, D. "Value of Pulse Oximetry (PO) in Evaluating Nursing Home (NH) Residents for Pneumonia (P)." 39th Infectious Diseases Society of America National Meeting, San Francisco, CA, 2001, abstract 31.
212. Engemann, JE, Carmeli, Y, Bronstein, M, Trivette, S, Briggs, J, Oden, M, Macfarquhar, J, Cosgrove, S, Fowler, V, Sexton, DJ, Kaye, KS. "Outcomes Attributable to Methicillin Resistance (MR) among Patients with Staphylococcus aureus (SA) Surgical Site Infections (SSI): Hospital Charges, Hospital Days and Mortality." 41st Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2001, abstract 2056.
213. Cosgrove, SE, Qi, Y, Kaye, KS, Harbarth, S, Karchmer, AW, Carmeli, Y. "The Impact of Methicillin Resistance in Staphylococcus aureus Bacteremia (SAB) on Patient (Pt) Outcomes: Mortality, Length of Stay (LOS), and Hospital Charge (HC)." 41st Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2001, abstract 1221.
214. Harris, AD, Perencevich, Roghmann, Morris, G, Kaye, KS, Johnson, JA. "Risk Factors for Piperacillin-Tazobactam-Resistant Pseudomonas aeruginosa among Hospitalized Patients." 41st Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2001, abstract 1186.
215. Schwaber, MS, Cosgrove, SE, Gold, HS, Kaye, KS, Carmeli, Y. "Fluoroquinolones (FQ) are Protective Against Third-Generation Cephalosporin (3GC)-Resistant Gram-Negative Nosocomial Pathogens (GNNP)." 41st Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago, IL, 2001, abstract 1182.
216. Harris, A, Kaye, KS, Samore, M, Carmeli, Y. "Control Group Selection is an

- Important but Neglected Issue in Studies of Antibiotic Resistance: An example with Ampicillin-Sulbactam- Resistant Escherichia coli.” 40th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, CA, 2000, abstract 83, p. 399.
217. Kaye, KS, Gold, H, Venkataraman, L, Qi, Y, Degirolami, P, Samore, M, Tenover, F. “Molecular and Clinical Epidemiology of Amoxicillin-Clavulanate-Resistant Escherichia coli Isolated in a U.S. Clinical Microbiology Laboratory.” 40th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, CA, 2000, abstract 2005, p. 123.
 218. Cosgrove, S, Kaye, KS, Eliopoulos, G, Carmeli, Y. “The Impact of Emergence of 3rd Generation Cephalosporin (3GC) Resistance in Enterobacter spp. on Patient Outcomes: Mortality, Length of Stay and Hospital Cost.” 40th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, CA, 2000, abstract 1721, p. 427.
 219. Kaye, KS, Harris, A, Eliopoulos, G and Carmeli, Y. “Risk Factors for the Emergence of Resistance to 3rd Generation Cephalosporins Among Enterobacter spp.” 40th Interscience Conference on Antimicrobial Agents and Chemotherapy, Toronto, CA, 2000, abstract 1717, p. 426.
 220. Kaye, KS, Sands, K, Chan, KA, Fishman, P and Platt, R. “Admission Medications Predict Surgical Site Infection (SSI).” the 4th Decennial International Conference on Nosocomial and Healthcare-Associated Infections, Atlanta, GA, 3/2000, abstract P-M2-21, p. 154
 221. Kaye, KS, Harris, A, Gold, H and Carmeli, Y. “Risk factors for the recovery of ampicillin/sulbactam-resistant Escherichia coli in hospitalized patients.” 39th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA, 1999, abstract 1433, p 619.
 222. Kaye, KS, Sands, K, Donahue, J, Chan, A and Platt, R. “Preoperative Drug Dispensing Data Correlates with Surgical Site Infection Rates.” The Society for Healthcare Epidemiology of America, Ninth Annual Scientific Meeting, San Francisco, CA, 1999, abstract 23, p 35.

PRESENTATIONS:

1. Invited and/or refereed international or national meetings

Society of Critical Care Medicine 44th Critical Care Congress. " Principles for Prevention and Management of Multi-Drug Resistant (MDR) Acinetobacter baumannii." Phoenix Arizona, January, 2015

44th Critical Care Congress Update in Infectious Diseases. “Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers.” American Medical Seminars, Sarasota, FL, December, 2014.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2014

Update in Infectious Diseases. "Meningitis and Encephalitis." American Medical Seminars, Sarasota, FL, December, 2014

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2014

Update in Infectious Diseases. "Infections Caused by *Staphylococcus aureus*." American Medical Seminars, Sarasota, FL, December, 2014

US Food and Drug Administration (FDA) advisory committee for Ceftazidime-Avibactam. CAZ-AVI and Unmet Need. FDA, Bethesda MD, Decemer, 2014

Detroit Trauma Symposim. "Ebola: Facts, Fiction and Preparedness." Detroit, MI, November, 2014.

Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 54th annual meeting. Nephrotoxicity of Colistin in Patients: What Have We Learned? Washington DC, September, 2014

Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 54th annual meeting. "Antimicrobial Stewardship: Making the Business Case." Washington DC, September, 2014

University of Colorado, Infectious Diseases Grand Rounds. Multi-drug Resistant Gram-Negative Bacteria: The Perfect Storm. University of Colorado School of Medicine, Denver, CO, June, 2014

APIC Annual Conference 2014. " Environmental and Clinical Outcomes Comparing a Novel Daily Sporocidal Disinfectant to Bleach." Anaheim, CA, June, 2014

ID Pharmacy Fellowship Forum. "Antimicrobial Stewardship Research." Captiva, FL, April, 2014.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2013.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2013.

Update in Infectious Diseases. "Meningitis and Encephalitis." American Medical Seminars, Sarasota, FL, December, 2013.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2013.

Update in Infectious Diseases. "Infections Caused by *Staphylococcus aureus*." American Medical Seminars, Sarasota, FL, December, 2013.

IDWeek 2013. "Infection Prevention for the Infectious Diseases Physician Who is New to the Field." San Francisco, CA, October, 2013.

Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) 53rd annual meeting. "Antimicrobial Stewardship: Making the Business Case." Denver, Colorado, September, 2013

Symposium on Prevention Infections Due to Multi-Drug Resistant Pathogens in Brazil. "Antimicrobial Resistance and Gram-Negative Bacilli: The Perfect Storm." Sage Inc., San Paolo, BR, August, 2013.

1st International Conference on Polymyxins. "The use of polymyxins in clinical practice: North America." Monash University, Prato, IT, May, 2013.

1st International Conference on Polymyxins. "Clinical trials of colistin monotherapy versus combinations." Monash University, Prato, IT, May, 2013.

Association for Professionals in Infection Control Educational Webinar Series. "Antimicrobial Stewardship: What the Infection Preventionist Needs to Know." Association for Professionals in Infection Control, January, 2013.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2012.

Update in Infectious Diseases. "Meningitis and Encephalitis." American Medical Seminars, Sarasota, FL, December, 2012.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2012.

Update in Infectious Diseases. "Infections Caused by *Staphylococcus aureus*." American Medical Seminars, Sarasota, FL, December, 2012.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2012.

University of Texas Southwestern Medical Center Symposium on Healthcare Associated Infections: Pathogen-Specific Infection Prevention. Dallas, Texas, November, 2012.

IDWeek 2012. "Critical Collaborations in Antimicrobial Stewardship, Infection Control, and Diagnostic Microbiology." San Diego, CA, October, 2012.

52nd Interscience Conference on Antimicrobial Agents and Chemotherapy. "What do Polymyxin Combinations Offer in the Clinic?" San Francisco, CA, September, 2012.

Australian Society for Antimicrobial 13th Annual Scientific Meeting. Antimicrobial Resistance and Antimicrobial Stewardship. Brisbane, Australia, February, 2012.

16th Annual Making a Difference in Infectious Diseases Pharmacotherapy (MAD-ID) Conference. "Implementing an Antimicrobial Stewardship Program." Orlando, FL, May, 2012.

Association for Professionals in Infection Control and Epidemiology 39th Annual Educational Conference and International Meeting. "Infections due to Multi-Drug Resistant (MDR) Gram-Negative Pathogens Across the Continuum of Care." San Antonio, TX, June, 2012.

Association for Professionals in Infection Control and Epidemiology 39th Annual Educational Conference and International Meeting. "Chlorhexidine Across Healthcare: A Partnership to Protect Patients." San Antonio, TX, June, 2012.

Association for Professionals in Infection Control and Epidemiology 39th Annual Educational Conference and International Meeting. "Infections Due to Enterobacter Species: Epidemiology and Outcomes as a Function of Ceftazidime Resistance." San Antonio, TX, June, 2012.

Association for Professionals in Infection Control and Epidemiology 39th Annual Educational Conference and International Meeting. "Re-admissions After Diagnosis of Surgical Site Infection Following Knee and Hip Arthroplasty." San Antonio, TX, June, 2012.

Israeli Infectious Diseases Society Infectious Diseases Conference Day. "Antimicrobial Stewardship." Tel Aviv, Israel, June, 2012.

American Medical Director's Association (AMDA) Annual Meeting. "Infection Control and Healthcare-Associated Infections in Long Term Care." San Antonio, TX, March 2012.

Internal Medicine Grand Grounds, JFK Memorial Hospital, "Emerging Issues and Controversies In Antimicrobial Resistance in the Hospital." Palm Beach County, FL, December, 2011.

Pharmacy Grand Rounds, Allegiance Hospital, "Antimicrobial Stewardship." Jackson, MI, December, 2011.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2011.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2011.

Update in Infectious Diseases. "Meningitis and Encephalitis." American Medical Seminars, Sarasota, FL, December, 2011.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2011.

Update in Infectious Diseases. "Infections Caused by *Staphylococcus aureus*." American Medical Seminars, Sarasota, FL, December, 2011.

Antimicrobial Resistance Prevention and Management, “Emerging Issues and Controversies In Antimicrobial Resistance in the Hospital.”. Detroit, MI, October, 2011.

University of New Mexico, Visiting Professor. “Controversies and Emerging Infections in Hospital-Acquired Infections.”. Albuquerque, NM, July, 2011.

American College of Physicians (ACP) 2011 Annual Meeting. “Antimicrobial Therapy: New Agents and New Uses for Old Drugs.” San Diego, CA, April, 2011.

American College of Physicians (ACP) 2011 Annual Meeting. “Healthcare-Associated Infections.” San Diego, CA, April, 2011.

Update in Infectious Diseases. “Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers.” American Medical Seminars, Sarasota, FL, December, 2010.

Update in Infectious Diseases. “Newer Antibacterial Agents.” American Medical Seminars, Sarasota, FL, December, 2010.

Update in Infectious Diseases. “Meningitis and Encephalitis.” American Medical Seminars, Sarasota, FL, December, 2010.

Update in Infectious Diseases. “Update on Antimicrobial Resistance.” American Medical Seminars, Sarasota, FL, December, 2010.

Update in Infectious Diseases. “Infections Caused by *Staphylococcus aureus*.” American Medical Seminars, Sarasota, FL, December, 2010.

14th Annual MAD-ID Conference. Pandemic Flu –Global and US perspectives. Orlando, FL, May, 2010.

Michigan Infectious Diseases Society (MIDS)/ Michigan Department of Community Health (MDCH) Fall Scientific Conference Update in Infectious Diseases. Farmington Hills, MI, November, 2010.

Wayne State University Department of Family Medicine & Public Health Sciences 2010 Second Annual Public Health Seminar. Antibiotic Resistant Organisms: Hospital and Community Populations. Detroit, MI, October, 2010.

Cubicin Speaker Training Meeting. Gram-Negative Resistance. Detroit, MI, October, 2010.

2010 Michigan Occupational Health Conference – MOEMA Annual Scientific Meeting. Infectious Diseases Update. Port Huron, MI, September, 2010.

Symposium on Healthcare Associated Infections. Antibiotic Stewardship. Dallas, TX, August, 2010.

APIC 2010 Annual Conference Committee (ACC). Finding Your Way Through the Complexity of Ventilator-Associated Pneumonia (VAP). New Orleans, LA, July, 2010.

14th Annual MAD-ID Conference. Antimicrobial Stewardship and Public Health. Orlando, FL, May, 2010.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2009.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2009.

Update in Infectious Diseases. "Meningitis and Encephalitis." American Medical Seminars, Sarasota, FL, December, 2009.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2009.

Update in Infectious Diseases. "Infections Caused by *Staphylococcus aureus*." American Medical Seminars, Sarasota, FL, December, 2009.

The 2009 Annual Meeting of the American College of Clinical Pharmacy. "Guiding Antimicrobial Therapy in 2009." Anaheim, CA, October, 2009.

47th Annual Meeting of the Infectious Diseases Society of America. "Meet the expert: Surgical Site Infection." Philadelphia, PA, October, 2009.

Joint Commission and APIC Infection Control Conference. "Costs of Antibiotic Resistance." Arlington, VA, August, 2009.

APIC Annual Conference. "Epidemiology of *Clostridium difficile*." Ft. Lauderdale, FL, June, 2009.

13th Annual MAD-ID Conference. Antimicrobial Stewardship: Assembling the Team. Orlando, FL, May, 2009.

13th Annual MAD-ID Conference. Reconsidering MRSA: hVISA and VISA - Epidemiology. Orlando, FL, May, 2009.

National Boehringer Sales Meeting. Ventilator Associated Pneumonia and Hospital-acquired Infections. Philadelphia, PA, April, 2009.

19th Annual Society for Healthcare Epidemiology in America meeting, Moderator of point-counterpoint debate. "To decolonize or not: point counterpoint." San Diego, CA, March, 2009.

ASP Meeting for T Franklin Williams Awardees. "Integrating Medical Subspecialties Into Geriatrics." Austin, TX, January, 2009.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2008.

Update in Infectious Diseases. “Newer Antibacterial Agents.” American Medical Seminars, Sarasota, FL, December, 2008.

Update in Infectious Diseases. “Meningitis and Encephalitis.” American Medical Seminars, Sarasota, FL, December, 2008.

Update in Infectious Diseases. “Update on Antimicrobial Resistance.” American Medical Seminars, Sarasota, FL, December, 2008.

Update in Infectious Diseases. “Infections Caused by *Staphylococcus aureus*.” American Medical Seminars, Sarasota, FL, December, 2008.

Joint Commission Resources, What Every Administrator Needs to Know about Antimicrobial Resistance, “Costs of Antibiotic Resistance”, Chicago, IL, November, 2008.

48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46th Annual Infectious Diseases Society of America Joint Meeting, “Update in Surgical Site Infection Prevention”, Interscience Conference on Antimicrobial Agents and Infectious Diseases Society of America, October, 2008.

Update in Infectious Diseases. “Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers.” American Medical Seminars, Sarasota, FL, December, 2007.

Update in Infectious Diseases. “Newer Antibacterial Agents.” American Medical Seminars, Sarasota, FL, December, 2007.

Update in Infectious Diseases. “Meningitis and Encephalitis.” American Medical Seminars, Sarasota, FL, December, 2007.

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Update in Infectious Diseases. “Update on Antimicrobial Resistance.” American Medical Seminars, Sarasota, FL, December, 2006.

Update in Infectious Diseases. “Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers.” American Medical Seminars, Sarasota, FL, December, 2005.

Update in Infectious Diseases. “Newer Antibacterial Agents.” American Medical Seminars, Sarasota, FL, December, 2005.

Update in Infectious Diseases. "Smallpox and Botulism." American Medical Seminars, Sarasota, FL, December, 2005.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2005.

A Practical Approach to Infectious Diseases – 2005. "Current Challenges and Strategies for Infection Prevention and Control." Division of Infectious Diseases of the University of Miami's Miller School of Medicine and FIDEC (Fighting Infectious Diseases in Emerging Countries, Miami, FL, September, 2005.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2004.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2004.

Update in Infectious Diseases. "Smallpox and Botulism." American Medical Seminars, Sarasota, FL, December, 2004.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2004.

8th Annual Fellows Course. "Surgical Site Infection." Society for Healthcare and Epidemiology of American and the Infectious Diseases Society of America, Baltimore, MD, July, 2004.

American Geriatrics Society Annual Meeting. "Surgical Site Infection in the Elderly." American Geriatrics Society, Las Vegas, NV, May, 2004.

International Conference on Emerging Infectious Diseases. "MRSA in Hospitals and Healthcare Settings." Centers for Disease Control, Atlanta, GA, March, 2004.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2003.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2003.

Update in Infectious Diseases. "Smallpox and Botulism." American Medical Seminars, Sarasota, FL, December, 2003.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2003.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2002.

Update in Infectious Diseases. "Smallpox and Botulism." American Medical Seminars, Sarasota, FL, December, 2002.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2002.

12th Annual Society for Healthcare Epidemiology of America meeting. "The Threat of Anthrax at a Tertiary Care Referral Hospital: Response of an Infection Control Unit and Establishment of Infrastructure." Society for Healthcare and Epidemiology of America, Salt Lake City, UT, April, 2002.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2001.

Update in Infectious Diseases. "Bioterrorism: Role of the Primary Care Provider." American Medical Seminars, Sarasota, FL, December, 2001.

Invited and/or refereed local/regional meetings/grand rounds

Wayne State University Department of Medicine Grand Rounds. "Keep Calm and Learn Ebola." Detroit, MI, January 2015

Pulmonary, Critical Care and Sleep Medicine Update 2014. "Lines and Fevers and SIRS, Oh My!" Dearborn, MI, November, 2014

Wayne State University Department of Surgery Grand Rounds. " Central Line-Associated Bloodstream Infection (CLABSI) and Catheter-Associated Urinary Tract Infection (CAUTI)." Detroit, MI, June, 2014.

Michigan Society for Infection Prevention and Control (MSPIC) Spring 2014 Conference. "Appropriate Use of Antimicrobial Agents." Lansing, MI, May, 2014.

Wayne State University Department of Medicine Grand Rounds. "Venous Thromboembolism (VTE): Epidemiology and Overview." Detroit, MI, February, 2014.

Orlando Health Medical Grand Rounds. "Antimicrobial Resistance and Gram-negative Bacilli." Orlando, FL, November, 2013.

Oregon Health and Science University Medical Grand Rounds. "Antimicrobial Resistance and Gram-Negative Bacilli: The Perfect Storm." Portland, OR, July, 2013.

Sinai-Grace Hospital Medical Grand Rounds. "Antimicrobial Resistance and Gram-negative Bacilli." Detroit, MI, January, 2013.

CRE Surveillance and Prevention Initiative Educational Conference. "Introduction to Carbapenem-Resistant Enterobacteriaceae(CRE)." Plymouth, MI, November, 2012.

2011 Sinai-Grace Hospital Research Day Keynote Talk. "Healthcare-Associated Infections." Detroit, MI, May, 2011.

Wayne State University 5th Annual Fall 2009 Pharmacy CE Symposium. "Antibiotic stewardship and public health." Detroit, MI, November, 2009.

Wayne State University Medical Grand Rounds. "Influenza and H1N1." Detroit, MI, November, 2009.

Great Lakes Infusion Nursing Society Annual Conference. "Antimicrobial resistance update." Livonia, MI, October, 2009.

Wayne State University Division of Pulmonary Grand Rounds. "Infection Control in the ICU." Detroit, MI, October, 2009.

University of Mississippi Medical Grand Rounds. "Antimicrobial Stewardship." Jackson, MS, October, 2009.

Wayne State University Institute of Geriatrics Lecture Series. "Healthcare-associated and Multi-drug resistant pathogens in older adults." Detroit, MI, October, 2009

ICCAC annual meeting. "Antimicrobial Stewardship Roundtable Meeting." San Francisco, September, 2009

Case Western University and Cleveland VA GRECC Conference. "Healthcare-associated and multi-drug resistant pathogens in older adults." Cleveland, OH, September, 2009.

St. Johns Hospital Medicine Grand Rounds. "Antimicrobial Stewardship." Detroit, MI, September, 2009

Oakwood Hospitals, Pharmacy Grand Rounds, "Antmicrobial Stewardship." Dearborn, MI, September 2009.

University of Michigan Infections and Geriatrics Symposium. "Surgical Site Infection in Older Adults." Ann Arbour, MI, September, 2009.

Banner Good Samaritan Hospital Medical Grand Rounds. "Infection Control Update and Antimicrobial Resesitance." Banner Good Samaritan Hospital, Phoenix, AZ, August, 2009.

Wayne State Medical School. "Infection Control." Detroit, MI, August, 2009.

Oakwood Hospital Resident Research Day. "Incorporating Academics Into Everyday Physician Activities." Dearborn, MI, May, 2009

Vanderbilt University Infectious Diseases Grand Rounds. "Infection Control and the Future: Challenges and Opportunities." Vanderbilt University, Nashville, TN, March, 2009

13th Annual Infectious Disease & Critical Care Symposium. "Antibiotic Stewardship and Antimicrobial Resistance." Detroit Medical Center Pharmacy Department, Dearborn, MI, February, 2009.

Integrated Care Conference on MRSA. "The burden of *S. aureus* infections." Cubist Pharmaceuticals, Novi, MI, February, 2009.

Surgery Grand Rounds, "Surgical Site Infection Surveillance." Department of Surgery, Wayne State University, Detroit, MI, February, 2009

Pediatrics Grand Rounds, "Infection Control Challenges and Opportunities." Department of Pediatrics, Wayne State University, Detroit, MI, February, 2009

Wayne State University Infectious Diseases Fe`llows. "Infection control and antibiotic stewardship." Detroit, MI, January, 2009.

University of Michigan Infectious Diseases Grand Rounds, "Infection control challenges and opportunities." University of Michigan, Ann Arbor, MI, January, 2009.

Wayne State University Pediatric Infectious Diseases Grand Rounds. "Infection Control in Pediatrics." Detroit, MI, January, 2009.

Wayne State University Surgery Grand Rounds. "Surgical Site Infection." Detroit, MI, January, 2009.