

Keith Kaye, M.D., MPH

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PERSONAL DATA:

EDUCATION:

Baccalaureate:

Yale University, New Haven, CT

9/85 - 5/89, graduated cum laude, with B.A. in psychology

Graduate:

Harvard School of Public Health, Harvard University, Boston, MA

7/98 – 6/00, graduated with MPH

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

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

9/1/08 – present, Professor of Medicine

9/1/08- present, Corporate Director, Department of Infection Prevention, Hospital Epidemiology and Antibiotic Stewardship, Detroit Medical Center and Wayne State University

Duke University Medical Center (DUMC), Durham, NC

10/05- 9/08, Associate Professor of Medicine, DUMC

6/04 – 9/08, Chair, Infection Control and Hospital Epidemiology, DUMC

7/01-10/05, Assistant Professor in Medicine, Infectious Diseases attending-

1/01 – 9/08, Chair, Antibiotic Evaluation Committee

9/00 – 9/08, Co-Chair, Duke Infection Control Outreach Network

9/00 - 6/04, Co-chair, Infection Control and Hospital Epidemiology, DUMC

9/00 – 6/01, Associate in Medicine, Infectious Diseases attending

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 Medical Association, member, 7/94 -

Massachusetts Medical Society, member, 7/94 -

American College of Physicians, member, 7/94 –

American College of Physicians, fellow, 5/06-

Infectious Diseases Society of America (IDSA), member, 9/97-

Infectious Diseases Society of America, Special Interest Group in Geriatrics, Founding Member, 10/05 -

American Society of Microbiology, member, 9/99-

Society for Healthcare and Epidemiology (SHEA), member, 1/01-

Association for Professionals in Infection Control and Epidemiology, 7/01-

The Duke Center for the Study of Aging and Human Development, Senior Fellow, 10/03-

The Healthcare-Associated Infection Allied Task Force, co-sponsored by SHEA and IDSA, 2007-

The American Geriatrics Society, member, 7/95 –

The American Geriatrics Society, Section on Integrating Medical Sub-specialties into Geriatrics, Chairman, 2006 -

LICENSURE AND BOARD CERTIFICATION:

Internal Medicine, 1997

Infectious Diseases, 2000

HONORS/AWARDS:

1) Cum Laude, Yale University, 1989.

- 2) Maxwell Finland Young Investigator Award, Massachusetts Infectious Diseases Society, Beth Israel Deaconess Medical Center, Harvard Medical School, 2000.
- 3) 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.
- 4) Durham Regional Hospital General Medicine Teaching Award, 2002-2003.
- 5) 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.
- 6) Joseph C. Greenfield, Jr. Faculty Award Nominee for mentorship of House Staff in the fundamentals of research, from Duke University Medical Center, 2004
- 7) Golden Apple Nominee for Excellence in Clinical Teaching from Duke Medical School, 2005 and 2008
- 8) AOA Honorary Membership granted March, 2009

SERVICE:

1. **Patient care:** 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**
 - b. **Testimony before public bodies**
 - c. **Consulting to public agencies, foundations, professional associations:**
 1. Joint Commission Resources: Consulting regarding Antimicrobial Resistance, 2008-current
 - d. **Consulting to private enterprises**
 1. Theradoc: Consulting regarding Infection Control, 1-09- present
 2. Schering-Plough: Consulting regarding antibiotic use, 2006-present
 3. Ortho-Mcneil: Consulting regarding antibiotic use, 2007-present
 4. Wyeth-Ayerst: Consulting regarding antibiotics use, 2009-present

3. Journal/Editorial activity

a. Editorships

1. Guest Editor, Infectious Diseases Clinics of North America, Antibiotic Use, 2009

b. Editorial board memberships:

1. Associate Editor, Infectious Diseases News, 7/07 – current

4. Other professionally related service

5. National and international boards and committees

a. Positions held in professional associations

1. Chairman, The American Geriatrics Society, Section on Integrating Medical Sub-specialties into Geriatrics, 2006 –present
 2. Member, The Healthcare-Associated Infection Allied Task Force, co-sponsored by SHEA and IDSA, 2007- 2008, 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*,
 3. Member, SHEA guidelines committee, 2009-current
- b. Memberships/offices held in public agencies related to discipline

6. State and local boards and committees

1. Member, Michigan Hospital Association Bloodstream Infection Workgroup, 2008-current
2. Member, Michigan Infectious Diseases Society
3. Chairmen, Southeastern Michigan Epidemiology Society, 2009-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. Infection Control in the Hospital – 2009-current
2. Infection Control in the Hospital – 2005-2008 (Duke)

e. Residents/Fellows

1. Infection Control in the Hospital, Infectious Diseases Fellows, 2008-current
2. Infection Control in the Hospital, Infectious Diseases Fellows, 2001-2008,
Duke
3. 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. Central Line Insertion – Online course geared towards Physicians; available at Duke University Medical Center and nationally. Creator, 2001.
6. **Course materials (unpublished)**
7. **Mentees**

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

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.

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

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.

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.

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.

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.

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

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-current.

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.

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

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

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

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

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.

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

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

Ashish Bhargara, Internal Medicine Resident. Inhaled colistin for treatment of pneumonia. 2008-current.

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

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

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>Duration</u>	<u>PI</u>	<u>% Effort</u>	<u>Purpose</u>	<u>Amount</u>	<u>Funding organization</u>
1	1998-2000	Howard Gold	75%	Develop techniques in the field of molecular epidemiology	\$120,000	CDC
2	2002-4	Keith Kaye	75%	Nosocomial Infections in the Elderly	\$75,000	IDSA and Hartford Foundation
3	2002-7	Melissa Johnson	10%	Outcomes of patients with candidemia	\$683,000	NIH
4	2003-5	Kenneth Wilson	10%	Interaction Between <i>Clostridium difficile</i> and commensals	\$300,000	NIH
5	2003-2004	Keith Kaye	10%	Antimicrobial therapy and outcomes in geriatric patients	\$40,000	Wyeth Ayerst
6	2003-2004	Keith Kaye	10%	The association between fluorquinolone exposure and resistance in <i>Pseudomonas</i>	\$22,000	Bayer
7	2004-7	John Engemann	5%	<i>Staphylococcal aureus</i> surgical site infection clinical and fiscal health outcomes	\$250,000	CDC
8	2004-2005	Keith Kaye	10%	MRSA in a network of community hospitals	\$100,000	Pfizer
9	2005-2006	Yehuda Carmeli	5%	Risk factors for mortality in patients with MRSA bacteremia	\$20,000	Pfizer
10	2005-2006	Vance Fowler	5%	<i>Staphylococcus aureus</i> infections after cardiac surgery	\$17,000	Merck

11	2004-2006	Keith Kaye	5%	Validity of retrospective functional status and data collection	\$12,000	Claude D. Pepper Center
12	2004-2008	Keith Kaye	10%	Daptomycin for pre-operative antibiotic prophylaxis	\$113,000	Cubist
13	2004-current	Keith Kaye	75%	Nosocomial infections in geriatric patients	\$504,000	NIH
14	2008-current	Keith Kaye	10%	<i>Staphylococcus aureus</i> infections after surgery	\$600,000	Merck

PUBLICATIONS:

Referred

1. Nau, R, Sachdeva, M, Kaye, KS, Sande, ER and Tauber, MG. "Rifampin for therapy in experimental meningitis in rabbits." Antimicrobial Agents in Chemotherapy, 1994 38(15): 1186-9
2. Nau, R, Schmidt, T, Kaye, KS, Froula, JL and Tauber, MG. "Quinolone antibiotics in the therapy of experimental pneumococcal meningitis in rabbits." Antimicrobial Agents and Chemotherapy, 1995 39: 593-7
3. Kartalija, M, Kaye, KS, Tureen, JH, Liu, Q, Tauber, ML, Elliott, BR and Sande, MA. "Treatment of Experimental cryptococcal meningitis with fluconazole and addition of flucytosine on mycologic pathophysiologic outcome." The Journal of Infectious Disease, 1996 173: 1216-21
4. Kaye, KS, Harris, A, Gold, H and Carmeli, Y. "Risk factors for the recovery of ampicillin/sulbactam-resistant *Escherichia coli* in hospitalized patients." Antimicrobial Agents and Chemotherapy, 2000 44: 1004-9
5. Kaye, KS, Fraimow, H and Abrutyn, E. "Pathogens resistant to antimicrobial agents: epidemiology, molecular mechanisms and clinical management." Infectious Diseases Clinics of North America. 2000 14(2): 293-319
6. Kaye, KS, Kaye, D. "Multidrug Resistant Pathogens: Mechanisms of Resistance and Epidemiology." Current Infectious Disease Reports, 2000; 2: 391-398.
7. Kaye, KS, Sands, K, Donahue, JD, Chan, KA, Fishman, P and Platt, R. "Preoperative Drug Dispensing Predicts Surgical Site Infection." Emerg Infect Dis, 2001 7: 57-65.

8. Kaye, KS, Cosgrove, S, Harris, A, Eliopoulous, GM and Carmeli, Y. "Risk factors for the emergence of resistanc to 3rd generation cephalosporins among *Enterobacter* spp." Antimicrobial Agents and Chemotherapy, 2001; 45:9 2628-30.
9. Engemann, JJ, Kaye, KS. "Ventilator-associated Pneumonia." Seminars in Infection Control, 2001 1:4 255-66.
10. Cosgrove, SE, Kaye, KS, Eliopoulous, GM and Carmeli, Y. "Health and Economic Outcomes of the Emergence of Third Generation Cephalosporin Resistance in *Enterobacter* Species." Archives of Internal Medicine, 2002 162 185-190.
11. Kaye, KS, Sexton, DJ. "Rocky Mountain Spotted Fever." Medical Clinics of North America, 2002; 86:2 351-60.
12. Harris, AD, Perencevich, E, Roghmann, MC, Morris, G, Kaye, KS, Johnsons, JA. "Risk Factors for Piperacillin-tazobactam-Resistant *Pseudomonas aeruginosa* among Hospitalized Patients." Antimicrobial Agents and Chemotherapy, Antimicrobial Agents and Chemotherapy, 2002; 46:3 854-8.
13. Harris, AD, Samore, MH, Lipsitch, M, Kaye, KS, Perencevich, E, Carmeli, Y. "The importance of control group selection in risk factor studies of antimicrobial-resistant organisms: Examples applied to *Pseudomonas aeruginosa*, *Enterococcus* species and *Escherichia coli*." Clinical Infectious Diseases, Clinical Infectious Diseases, 2002, 34:12 1558-63.
14. Friedman, ND, Kaye, KS, Stout, JE, McGarry, SA, Trivette, SL, Briggs, JP, Lamm, W, Clark, C, MacFarquhar, J, Walton, AL, Reller, LB, Sexton, DJ. "Healthcare-Associated Bloodstream Infections in Adults: A Reason to change the accepted definition of community-acquired infections." Annals of Internal Medicine, 2002; 137:10 791-97.
15. Kaye, KS, Kaye, D. "The Cipro Patent and Bioterrorism." The American Journal of Bioethics, 2002, 2 41-42.
16. Kaye, KS, Stalam, M, Shershen, WE, Kaye, D. "Utility of Pulse Oximetry in Diagnosing Pneumonia in Nursing Home Residents." The American Journal of Medical Sciences, 2002, 324(5):237-42.
17. Engemann, JJ, Carmeli, Y, Cosgrove, SE, Fowler, VG, Bronstein, MZ, Trivette, SL, Briggs, JP, Sexton, DJ, Kaye, KS. Adverse Clinical and Fiscal Outcomes Attributable to Clin Infect Dis, 2003, 1:36(5):592-8.
18. McGirt, MJ, Zaas, A, Fuchs, HE, George, TM, Kaye, KS, Sexton, DJ. Risk Factors for Pediatric Ventriculoperitoneal Shunt Infection and Predictors of Infectious Pathogens. Clin Infect Dis. 2003, 1:36(7): 858-62

19. Fowler, VG, Kaye, KS, Simel, DL, Cabell, CH, McClachlan, D, Smith, PK, Levin, S, Sexton, DJ, Reller, LB, Corey, GR. *Staphylococcus aureus* Bacteremia following Median Sternotomy: Clinical Utility of Blood Culture Results in the Identification of Postoperative Mediastinitis. *Circulation*, 2003; 108:73-78.
20. Perencevich, EN, Kaye, KS, Strausbaugh, LJ, Fisman, DN, Harris, AD, Infectious Diseases Society of America Emerging Infections Network. Acceptable Treatment Failure Rates in Osteomyelitis Involving the Diabetic Foot: A Survey of Infectious Disease Physicians. *Clinical Infectious Diseases*, 2003, 38:476-82.
21. Woods, CW, Bressler, AM, LiPuma, JJ, Alexander, BD, Clements, DA, Weber, DJ, Moore, CM, Reller, LB, Kaye, KS. Virulence Associated with Outbreak-related Strains of *Burkholderia cepacia* Complex among a Cohort of Patients with Bacteremia, *Clinical Infectious Diseases*, 2004, 38(9); 1243-1250.
22. Dodds-Ashley, ES, Carroll, DN, Engemann, JJ, Harris, AD, Fowler, Jr, VG, Sexton, DJ, Kaye, KS. Risk Factors for Post-Operative Mediastinitis due to Methicillin-Resistant *Staphylococcus aureus*, *Clinical Infectious Diseases*, 2004, 38 (1); 1555-1560
23. Schwaber, MJ, Cosgrove, SE, Gold, HS, Kaye, KS, Carmeli, Y. Protective Effect of Fluoroquinolones Against Cephalosporin Resistance in Gram-negative Nosocomial Pathogens, *Emerging Infectious Diseases*, 2004; 10 (1): 94-99
24. Kaye, KS, Gold, HS, Schwaber, MJ, Venkataraman, L, Qi, Y, De Girolami, PC, Samore, MH, Anderson, G, Rasheed, JK, Tenover, FC. Variety of β -lactamases Produced by Amoxicillin-Clavulanate-Resistant *Escherichia coli* Isolated in the Northeastern United States, *Antimicrobial Agents and Chemotherapy*, 2004; 48(5); 1520-1525
25. McGarry, SA, Engemann, JJ, Schmader, K, Sexton, DJ, Kaye, KS. Surgical Site Infection due to *Staphylococcus aureus* in the Elderly: Mortality, Duration of Hospitalization and Cost. *Infection Control and Hospital Epidemiology*, 2004, 25(6); 461-467
26. Axon, RN, Engemann, JJ, Butcher, J, Lockamy, K, Kaye, KS. Control of Nosocomial Vancomycin-Resistant Enterococcus Acquisition Through Active Surveillance of Hemodialysis Patients. *Infection Control and Hospital Epidemiology*, 2004, 25(5); 436-438.
27. Kaye KS, Engemann JJ, Mozaffari E, Carmeli Y. Reference group choice and antibiotic resistance outcomes. *Emerging Infectious Diseases*, 2004, 10(6):1125-8.
28. McGregor, JC, Kim, PW, Perencevich, EN, Bradham, DD, Furuno, JP, Kaye, KS, Fink, JC, Langenberg, P, Roghmann, MC, Harris, AD. The Utility of the Chronic Disease Score and Charlson Comorbidity Index as Comorbidity Measures for use in Epidemiologic Studies of Antibiotic- Resistant Organisms, *Am J Epidemiol*, 2005, 161(5):483-93.
29. Kaye, KS, Schmader, KE, Sawyer, R. Surgical Site Infection in the Elderly. *Clin*

Infect Dis, 2004; 39; 1835-41

30. Kaye, KS, Engemann, JJ, Fraimow, HS, Abrutyn, E. Pathogens Resistant to Antimicrobial Agents: Epidemiology, Molecular Mechanisms, and Clinical Management. *Infect Dis Clin North America*, 2004, 18:467-511.
31. McDonald JR, Friedman ND, Stout JE, Sexton DJ, Kaye KS. Risk Factors for Ineffective Therapy in Patients with Bloodstream Infection. *Archives of Internal Medicine*, 2005, 165:308-13.
32. Cosgrove SE, Qi Y, Kaye KS, Harbarth S, Karcmher AW, Carmeli Y. The Impact of Methicillin Resistance in Staphylococcus aureus Bacteremia on Patient Outcomes: Mortality, Length of Stay, and Hospital Charges. *Infection Control and Hospital Epidemiology*, 2005, 26(2):166-174.
33. Reed SD, Friedman JY, Engemann JJ, Griffiths RI, Anstrom KJ, Kaye KS, Stryjewski ME, Szczech LA, Reller LB, Corey R, Schulman KA, Fowler VG. Costs and Outcomes Among Hemodialysis-Dependent Patients With Methicillin-Resistant or Methicillin-Susepctible Staphylococcus aureus Bacteremia. *Infection Control and Hospital Epidemiology*, 2005, 26(2):175-183.
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- *35. Kaye, KS, Schmit, K, Pieper, C, Sloane, R, Caughlan, KF, Sexton, DJ, Schmader, KE. The Effect of Increasing Age on the Risk for Surgical Site Infection. *J Infect Dis*, 2005; 191(7): 1056-1062
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37. Kaye, KS, Engemann, JJ, Fulmer, EM, Clark, CC, Noga, EM, Sexton, DJ. Favorable Impact of an Infection Control Network on Nosocomial Infection Rates in Community Hospitals. *Infection Control and Hospital Epidemiology*, 2006; March 27 (3): 228-233.
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39. Perencevich EN, Harris AD, Kaye KS, Bradham DD, Fisman DN, Liedtke LA, Strausbaugh LJ, Physicians' Acceptable Treatment Failure Rates in Antibiotic Therapy for Coagulase-negative Staphylococcal Catheter-Associated Bacteremia: Implications for reducing treatment duration and antibiotic exposure. *Clin Infect Dis*. 2005 Dec 15; 41 (12):1734-41

40. Schwaber MJ, Navon-Venezia S, Kaye KS, Ben-Ami R, Schwartz D, Carmeli Y. Clinical and economic impact of bacteremia with extended-spectrum b-lactamase (ESBL)-producing Enterobacteriaceae. *Antimicrob Agents Chemother* 2006; 50: 1257-1262.
41. Kaye KS, Sloane R, Sexton DJ, Schmader KS. Risk Factors for Surgical Site Infections in Older People. *J Am Geriatr Soc* 2006; 54:391-396
42. Anderson DJ, Engemann JJ, Harrll LJ, Carmeli Y, Reller LB, Kaye KS. Predictors of mortality in patients with bloodstream infection due to ceftazidime-resistant *Klebsiella pneumoniae*. *Antimicrob Agents Chemother* 2006 May; 50(5): 1715-20.
43. Kaye KS, Kanafani ZA, Dodds-Ashley E, Engemann JJ, Weber SG, Carmeli Y. The Differential Effects of Levofloxacin and Ciprofloxacin on the Risk for Isolation of Quinolone-Resistant *Pseudomonas aeruginosa*. *Antimicrob Agents Chemother* 2006; 50 (6): 2192-6
44. Batista R, Kaye KS, Yokoe DS. Admission-Specific Chronic Disease Scores as Alternative Predictors of Surgical Site Infection for Patients Undergoing Coronary Artery Bypass Graft Surgery. *Infect Control Hosp Epidem* 2006; 27: 802-808
- *45. Lee J, Singletary R, Schmader K, Anderson DJ, Bolognesi M, Kaye KS. Surgical site infection in the elderly following orthopaedic surgery. Risk factors and outcomes. *J Bone Joint Surg Am.* 2006 Aug; 88(8):1705-12
46. Karra R, McDermott L, Connelly S, Smith P, Sexton DJ, Kaye KS. Risk factors for 1-year mortality after postoperative Mediastinitis. *J Thorac Cardiovasc Surg* 2006; 132(3): 537-43
47. Anderson DJ, Kaye KS. Prevention of Surgical Site Infections. <http://pier.acponline.org/physicians/diseases/preopr873/preopr873.html> In: PIER [online database]. Philadelphia, American College of Physicians, 2006.
48. McDonald JR. Carriker CM. Pien BC. Trinh JV. Engemann JJ. Harrell LJ. Oden MA. Tanaka DT. Goldberg RN. Sexton DJ. Kaye KS. Methicillin-resistant *Staphylococcus aureus* outbreak in an intensive care nursery: potential for interinstitutional spread. [Journal Article. Research Support, N.I.H., Extramural. Research Support, U.S. Gov't, Non-P.H.S.] *Pediatric Infectious Disease Journal.* 26(8):678-83, 2007
49. Friedman ND, Sexton DJ, Connelly SM, Kaye KS. Risk Factors for Surgical Site Infection Complicating Laminectomy. *Infection Control & Hospital Epidemiology.* 28(9):1060-5, 2007.
50. Anderson DJ, Kirkland KB, Kaye KS, Thacker PA, Kanafani ZA, Auten G, Sexton DJ. Under-Resourced Hospital Infection Control and Prevention Programs: Penny Wise, Pound Foolish? *Infection Control & Hospital Epidemiology.* 28(7):767-73, 2007

51. Bressler AM, Kaye KS, LiPuma JJ, Alexander BD, Moore CM, Reller LB, Woods CW. Risk factors for Burkholderia cepacia complex bacteremia among intensive care unit patients without cystic fibrosis: a case-control study. *Infection Control & Hospital Epidemiology*. 28(8):951-8, 2007
52. Townsend, ML, Hollowell, SB, Bhalodia, J, Wilson, KH, Kaye, KS, Johnson, MD. A Comparison of the Effectiveness of Lipid Lowering-Therapy Between HIV and Non-HIV-Infected Subjects with Hyperlipidemia. *International Journal of STDs and AIDS*, 2007 Dec;18(12):856-60
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54. Kaye KS, Harris AD, McDonald JR, Strausbaugh LJ, Perencevich E, on behalf of the Infectious Diseases Society of America Emerging Infections Network. Measuring Acceptable Treatment Failure Rates in Community-Acquired Pneumonia: Potential for Reducing Treatment Duration and Antimicrobial Resistance. *Infection Control and Hospital Epidemiology*, 2008 Feb;29(2):137-42
55. Anderson DJ, Sexton DJ, Kanafani ZA, Auten G, Kaye KS. Severe surgical site infection in community hospitals: epidemiology, key procedures, and the changing prevalence of methicillin-resistant Staphylococcus aureus. *Infection Control & Hospital Epidemiology*. 28(9):1047-53, 2007
56. Bennett KM, Scarborough JE, Sharpe M, Dodds-Ashley E, Kaye KS, Hayward TZ 3rd, Vaslef SN. Implementation of antibiotic rotation protocol improves antibiotic susceptibility profile in a surgical intensive care unit. *Journal of Trauma-Injury Infection & Critical Care*. 63(2):307-11, 2007
57. Anderson DJ, Kaye KS. Skin and soft tissue infections in older adults. *Clinics in Geriatric Medicine*. 23(3):595-613, vii, 2007
58. Kaye, KS, Anderson, DJ, Choi, Y, Link, K, Thacker, P, Sexton, DJ. The Deadly Toll of Invasive Methicillin-Resistant Staphylococcus Aureus Infections in Community Hospitals. *Clinical Infectious Diseases*. 46:1568-77, 2008
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64. 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.
65. Engemann, JJ, McDonlad, JR, Rutala, WA, Weber, DJ, Gergen, MF, Gregg, LA, Schneider, LL, Padgett, 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.
66. 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.
67. 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.
68. 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.

69. 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.
70. 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.
71. 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.
72. 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.
73. 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
74. 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
75. Kanafani, ZA, Anderson, DJ, Engemann, JJ, Sexton, DJ, Kaye, KS. Clinical Manifestations of Postoperative Joint Infections Due to *Propionibacterium acnes*. 44th Annual Meeting of the Infectious Diseases Society of America, Toronto, Ontario, Canada, October 2006
76. Turner, MS, May, DB, Drew, RH, Kaye, KS, Dodds-Ashley, EA. Risk Factors Associated with *Clostridium difficile* Associated Disease (CDAD). 44th Annual Meeting of the Infectious Diseases Society of America, Toronto, Ontario, Canada, October 2006
77. Anderson, DJ, Schmader, K, Sloane, R, Sexton, DJ, Kaye, KS. Risk Factors and Outcomes of Health-Care Associated Blood Stream Infections (HA-BSI) in Elderly Patients: A Case-Control Study. 44th Annual Meeting of the Infectious Diseases Society of America, Toronto, Ontario, Canada, October 2006
78. Collins, D, Anderson, DJ, Sexton, DJ, Kaye, KS. Age-Related Variability in the Prevalence of Community-Acquired Methicillin-Resistant *Staphylococcus aureus* Infections, 2000-2005. 46th Interscience Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA, September 2006.

79. Anderson, DJ, Kirkland, KB, McDonald, HR, Warren, DK, Kanafani, ZA, Cook, E, Clark, C, Boyette, D, Adcock, LH, Engemann, JJ, Kaye, KS, Sexton DJ. Results of a Survey of Work Duties of 56 Infection Control Professionals (ICPs): Are New Guidelines Needed for the Staffing of Infection Control (IC) Programs? 16th Annual Society for Healthcare Epidemiology in America meeting, Chicago, IL, April 2006
80. Anderson, DJ, Kanafani, Z, Engemann, JJ, Sexton, DJ, Kaye, KS. Increasing Proportion and Rate of Methicillin-resistant Staphylococcus aureus (MRSA) Surgical Site Infection (SSI) in a Network of Community Hospitals. 16th Annual Society for Healthcare Epidemiology in America meeting, Chicago, IL, April 2006
81. Ang, S, Herzke, CA, Kaye, KS, Mody, L. Risk Factors for Community Acquired Pneumonia (CAP) in Older Adults: An evaluation of Published Studies. American Geriatrics Society Meeting, Seattle, WA, May, 2007
82. Anderson, DJ, Varkey, JB, Schmader, KE, Choi, YI, Sloane, R, Sexton, DJ, Kaye, KS. Gram Negative Bloodstream Infections (GN-BSI) Lead to Poor Outcomes in Older Adults. American Geriatrics Society Meeting, Seattle, WA, May, 2007
83. Herzke, CA, Ange, SK, Mody, L, Kaye, KS. Risk Factors for Symptomatic Urinary Tract Infection (UTI) in Older Adults: Evaluation of Published Studies. American Geriatrics Society Meeting, Seattle, WA, May, 2007
84. Anderson, DJ, Kirkland, KB, Kanafani, ZA, Engemann, JJ, Thacker P, Kaye, KS, Sexton, DJ. Cost of Healthcare-Associated Infections (HAI) and Hospital Budgets for Infection Control and Prevention (IC): Just a Drop in the Ocean? 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007
85. Anderson, DJ, Varkey, JB, Sexton, DJ, Schmader, KE, Choi, YI, Link, K, Sloane, R, Caremil, Y, Kaye, KS. Predictors of Adverse Patient Outcomes in Healthcare-Associated (HCA) Methicillin-Resistant Staphylococcus aureus (MRSA) Bloodstream Infection (BSI). 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007
86. Anderson, DJ, Kaye, KS, Kanafani, ZA, Sexton, DJ. Size of Community Hospitals and the Risk of Surgical Site Infections (SSI). 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007
87. Varkey, JB, Anderson, DJ, Sexton, DJ, Schmader, KE, Choi, YI, Link, K, Sloane, R, Kaye, KS. Epidemiology and Outcomes of Methicillin-Resistant Staphylococcus aureus (MRSA) Infections in a Large Multi-Center Cohort of Community Hospitals. 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007
88. Kanafani, ZA, Arduino, JM, Mulhbaier, L, Kaye, KS, Allen, K, Carmeli, Y, Corey, GR, Cosgrove, S, Fraser, T, Harris, A, Karchmer, Aw, Lautenbach, E, Rubb, M, Peterson, E, Straus, W, Fowler, VG. Staphylococcus aureus Infections Following Elective Cardiac Surgery: Identifying the High Risk Patient. 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007

89. Lockamy, K, Chukwuemeka, C, Gardner, WG, Okoye, OP, Anderson, DJ, Kaye, KS. Sustained Reduction in Catheter-Related Bloodstream Infection (CR-BSI) at a Large Complex Tertiary Care Hospital. 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007
90. Carriker, CM, Varkery, JB, Oden, MA, Thomann, WR, Kaye, KS. From the Bench to the Bedside: The Role of Infection Control During Hematopoietic Stem Cell Transplantation. 17th Annual Society for Healthcare Epidemiology in America meeting, Baltimore, MD, April, 2007
91. Anderson, DJ, Varkey, JB, Chen, LF, Schmader, KA, Choi, YI, Link, K, Sloane, R, Sexton, DJ, Kaye, KS. Abstract number 562 Quantifying Clinical and Fiscal Outcomes in Elderly Patients with Surgical Site Infections (SSIs): a Multi-Center Study. 45th Annual Meeting of the Infectious Diseases Society of America, San Diego, CA, October, 2007
92. Lalani, T, Chu, VH, Friedman, JY, Reed, SD, Griffiths, RI, Crosslin, DR, Kaye, KS, Kanafani, ZA, Corey, GR, Fowler, VG. Clinical Characteristics and Outcomes of Patients with Staphylococcus aureus Bacteremia and Orthopedic Device Infections. 45th Annual Meeting of the Infectious Diseases Society of America, San Diego, CA, October, 2007
93. Chen, LF, Anderson, DJ, Kaye, KS, Sexton, DJ. Validating a new predictive instrument for surgical site infections (SSIs) following cardiac bypass surgery (CABG). 45th Annual Meeting of the Infectious Diseases Society of America, San Diego, CA, October, 2007
94. Chen LF, Sexton DJ, Kaye KS, Anderson DJ. What denominator should be used to calculate rate of occupational exposures to bloodborne pathogens? A call for a standard denominator. Presented at the Society of Healthcare Epidemiology of America annual meeting, Orlando, FL April 5-8, 2008.
95. Anderson DJ, Chen LF, Sexton DJ, Schmader KE, Choi Y, Sloane R, Kaye KS. Risk factors for surgical site infections due to methicillin-Resistant Staphylococcus aureus: A multi-center study. Presented at the Society of Healthcare Epidemiology of America annual meeting, Orlando, FL April 5-8, 2008.
96. Chen LF, Sexton DJ, Kaye KS, Anderson DJ. Rates of occupational exposures to bloodborne pathogens in a network of community hospitals. Presented at the Society of Healthcare Epidemiology of America annual meeting, Orlando, FL April 5-8, 2008.
Request copy by email
97. Chen LF, Sexton DJ, Kaye KS, Anderson DJ. Gram-negative surgical site infections in community healthcare settings. Presented at the Society of Healthcare Epidemiology of America annual meeting, Orlando, FL April 5-8, 2008.
98. Anderson DJ, Chen LF, Sexton DJ, Kaye KS. The NNIS risk index is a valid method for risk adjustment of invasive surgical site infections. Presented at the Society of Healthcare Epidemiology of America annual meeting, Orlando, FL April 5-8, 2008.
99. Herzke C, Chen LF, Anderson DJ, Choi Y, Sexton DJ, Kaye KS. Empiric antimicrobial therapy for bloodstream infection (BI) due to Methicillin-Resistant

Staphylococcus aureus (MRSA): no better than a coin toss? Abstract # 325. In: Society of Healthcare Epidemiology of America.

100. Chen LF, Anderson DJ, Schmader KE, Choi Y, Sloane R, Sexton DJ, Kaye KS. Risk Factors for Bloodstream Infections in Older Hospitalized Patients: A Multi-Center Study. Abstract # 448731. American Geriatric Society (AGS) 2008 Annual Scientific Meeting, May 1st, 2008, Washington DC, USA.

101. Chen LF, Anderson DJ, Schmader KE, Choi Y, Sloane R, Sexton DJ, Kaye KS. Risk factors for bloodstream infections in older hospitalized patients: a multi-center study. Research on Aging Showcase, The Johns Hopkins Center for Aging and Health and the Johns Hopkins School of Public Health Gerontology Interest Group, May 9, 2008, Baltimore, MD, USA. Request copy by Email

102. Carriker C, Oden M, Anderson DJ, Varkey JB, Chen LF, Kaye KS. There's a fungus among us! How the smallest aspects of the environment have a major impact on the susceptible patient. Abstract # 15-150. Association for Professionals in Infection Control and Epidemiology (APIC) 2008 Annual Conference June 15-19, 2008, Denver, CO, USA.

103. Vereen S, Oden M, Sharpe M, Chen LF, Kaye KS. A pseudomonas outbreak on the surgical intensive care unit (SICU). Abstract # 10-99. Association for Professionals in Infection Control and Epidemiology (APIC) 2008 Annual Conference June 15-19, 2008, Denver, CO, USA.

104. Anderson, DJ, Chen, LF, Schmader, KE, Sexton, DJ, Sloane, R, Choi, Y, Kaye, KS. Clinical and Fiscal Outcomes of Surgical Site Infection (SSI) Due to Methicillin-Resistant *Staphylococcus aureus*. 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46th Annual Infectious Diseases Society of America Joint Meeting, October, 2008, Washington, D.C., USA.

105. Chen, T, Anderson, DJ, Choi, Y, Schmader, KE, Kaye, KS. Risk factors for surgical site infections due to methicillin-resistant *Staphylococcus aureus* (MRSA) in elderly patients. 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46th Annual Infectious Diseases Society of America Joint Meeting, October, 2008, Washington, D.C., USA.

106. Chen, LF, Anderson, DJ, Richmond, BB, Kaye, KS, Irving, T, Shields, BM, Adcock, L, Sexton, DJ. Outbreak of *Klebsiella pneumoniae* carbapenemase-producing organisms in a community hospital in Virginia. 48th Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46th Annual Infectious Diseases Society of America Joint Meeting, October, 2008, Washington, D.C., USA.

107. Kaye, KS, Sharpe, ML, Anderson, DJ, Dodds Ashley, ES. Decreasing Respiratory Fluoroquinolone Use at a Large Tertiary Care Hospital. American Society of Health-System Pharmacists 43rd MidYear Meeting, Orlando, FL, December, 2008.

PRESENTATIONS:

1. Invited and/or refereed international or national meetings

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.

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, 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.

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, 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.

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

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

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, 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.

Update in Infectious Diseases. "Cellulitis, Necrotizing Fasciitis and Diabetic Foot Ulcers." American Medical Seminars, Sarasota, FL, December, 2006.

Update in Infectious Diseases. "Newer Antibacterial Agents." American Medical Seminars, Sarasota, FL, December, 2006.

Update in Infectious Diseases. "Meningitis and Encephalitis." American Medical Seminars, Sarasota, FL, December, 2006.

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, 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.

Update in Infectious Diseases. "Update on Antimicrobial Resistance." American Medical Seminars, Sarasota, FL, December, 2007.

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.

Invited and/or refereed local/regional meetings

Association for Professionals in Infection Control, North Carolina, Annual Meeting. "Resistant Bacteria in Hemodialysis Patients: Epidemiology, Control and Prevention." Association for Professionals in Infection Control, North Carolina, Greensboro, NC, October, 2001.

Pharmacology and Infectious Diseases Symposium. "Antibiotic Utilization at Duke: The Clinical Indications Database." Medical College of South Carolina, Charleston, SC, August, 2002.

North Carolina Association of Pharmacists Annual Meeting. "Bugs and Drugs: ID 101." North Carolina Association of Pharmacists, Raleigh, NC, October, 2003.

Physical Medicine and Rehabilitation Grand Rounds, University of Louisville Health Care. "Emerging and Re-emerging Infections." University of Louisville Health Care, Louisville, KY, October, 2003.

Association for Professionals in Infection Control, North Carolina, Annual Meeting. "Update on Antimicrobial Resistance." Association for Professionals in Infection Control, North Carolina, Durham, NC, March, 2003.

Merck Acute Care Representatives and Managers Conference. "Ertapenem: A Clinician's View." Merck, San Diego, CA, October, 2004.

Focus on Hospital Infections. "Surgical Site Infection." IMEDDEX, Miami, FL, December, 2004.

2. Invited seminars or lectures presented in last five years

Duke Internal Medicine Residents. "Antibiotics in Medicine." Duke University Medical Center, Durham, NC, August, 2001-August, 2005.

Duke Medicine Grand Rounds. "The Epidemiology of Antibiotic Utilization at DUMC: A Report from the Antibiotic Evaluation Team." Department of Medicine, Duke University Medical Center, Durham, NC, September, 2001.

Duke Medicine Grand Rounds. "Biological Terrorism Preparedness and Response for the Clinician." Department of Medicine, Duke University Medical Center, Durham, NC, November, 2001.

Duke Infectious Diseases Grand Rounds. "Bioterrorism and the Infectious Diseases Physician." Division of Infectious Diseases, Duke University Medical Center, November, 2001.

Duke Anesthesia Grand Rounds. "Agents of Bioterrorism and Emerging Infections." Department of Anesthesia, Duke University Medical Center, Durham, NC, January, 2002.

Duke Infectious Diseases Grand Rounds. "Hospital-acquired Infections in Elderly Patients." Division of Infectious Diseases, Duke University Medical Center, Durham, NC, February, 2002.

Faculty Lecture Series, Campbell University School of Pharmacy. "Clinical Epidemiology and Biostatistics: Overview and Basic Concepts." Campbell University, September, 2002.

Duke Infectious Diseases Grand Rounds. "Surgical Site Infection (SSI): What's New at Duke and DICON." Division of Infectious Diseases, Duke University Medical Center, Durham, NC, February, 2003.

Duke Geriatrics Grand Rounds. "Surgical Site Infection in the Elderly." Division of Geriatrics, Duke University Medical Center, Durham, NC, February, 2003.

Cape Fear Valley Hospital, Joint Medical Staff Meeting. "Central Venous Catheter Insertion and Care: Improving Patient Outcomes." Cape Fear Valley Hospital, Fayetteville, NC, March, 2003.

Duke Geriatrics Research Conference. "Hospital-Acquired Infections in the Elderly." Division of Geriatrics, Duke University Medical Center, Durham, NC, April, 2003.

Duke Geriatrics Grand Rounds. "Antimicrobial Resistance and the Elderly." Division of Geriatrics, Duke University Medical Center, Durham, NC, August, 2003.

Duke Medicine Grand Rounds. "Carbapenem Optimization Program." Department of Medicine, Duke University Medical Center, Durham, NC, September, 2003.

Duke Family Practice Weekly Conference. "Community-Acquired Pneumonia." Duke University Medical Center, Durham, NC, October, 2003.

North Carolina Anti-infective Workshop. "Managing Antimicrobial Resistance in the Hospital." Center of Excellence for the Rational Use of Antibiotics, Duke University Medical Center, Greensboro, NC, November, 2003.

Duke Pediatric Grand Rounds. "Emerging and Re-emerging Infections." Department of Pediatrics, Duke University Medical Center, Durham, NC, November, 2003.

Clinical Pharmacology Lecture Series for Duke Internal Medicine Residents. "Optimizing Safe and Appropriate Antimicrobial Therapy." Duke University Medical Center, Durham, NC, November, 2003.

Mariah Parham Hospital Grand Rounds. "Emerging Infections." Mariah Parham Hospital, Henderson, NC, December, 2003.

Duke Internal Medicine Residents. "Community-Acquired Pneumonia at Duke." Duke University Medical Center, Durham, NC, January, 2004.

Central Carolina Hospital Surgery Grand Rounds. "Surgical Site Surveillance." Central Carolina Hospital, Sanford, NC, February, 2004.

Cape Fear Valley Hospital Pharmacy Grand Rounds. "Update on Antimicrobial Resistance." Cape Fear Valley Medical Center, Fayetteville, NC, February, 2004.

NC State Veterinary School Infectious Diseases Course. "Antibiotics and antimicrobial Resistance." NC State Veterinary School, October, 2004.

Association of Occupational Health Professionals, North Carolina Chapter, Annual Meeting. "Updates on Exposures, with an emphasis on Hepatitis C." Halifax Regional Medical Center, February, 2005.

Orthopedic Surgery Grand Rounds. "Nosocomial Infections and the American Surgeon: The Big Picture." Division of Orthopedics Surgery, Duke University Medical Center, Durham, NC, March, 2005.

NC State Veterinary School Infectious Diseases Course. "Antibiotics and antimicrobial Resistance." NC State Veterinary School, October, 2005

ENT Grand Rounds. "Antimicrobial Prophylaxis, MRSA and Antibiotic Update for ENT Physicians." Division of Otolaryngology, Duke University Medical Center, Durham, NC, March, 2005.

Community Health System National Pharmacy Meeting. "Strategies for Minimizing Antimicrobial Resistance: Improving the Process." Community Health System, Nashville, TN, October, 2008.

Sentara Norfolk General Hospital Infectious Diseases Grand Rounds, "Clostridium Difficile Infection: Managing Severe Disease in an Era of Change." Sentara Norfolk General Hospital, November, 2008.

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

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

3. Other scholarly work