

Date of Preparation: 2-22-2010

Signature\_\_\_\_\_

Keith Kaye, M.D., MPH

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**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 -

Society for Healthcare and Epidemiology (SHEA), Guidelines committee, member, 1/09-

Society for Healthcare and Epidemiology (SHEA), Long Term Care committee, member, 1/09-

#### **LICENSURE AND BOARD CERTIFICATION:**

Internal Medicine, 1997-2007

Infectious Diseases, 2010-2019

#### **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)  
  
General Medicine Service: 2 weeks per year, Harper University Hospital
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. Merck: Consulting regarding antibiotic use, 2006-present
    3. Ortho-Mcneil: Consulting regarding antibiotic use, 2007-present
    4. Pfizer: Consulting regarding antibiotics use, 2009-present

5. Forset Pharmaceuticals: Consulting regarding antibiotics use, 2009-present

**3. Journal/Editorial activity**

**a. Editorships**

1. Guest Editor, Infectious Diseases Clinics of North America, Antibiotic Use, 2009
2. Guest Editor, Infectious Diseases Clinics of North America; Infection Control; 2010

**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
  4. Member, SHEA, long term care 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, 2009-current
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.
2. Influenza – Net Learning for DMC employees, 2009

#### **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. 2007-2009.

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 and 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. 2008-2009

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

Dror Marchaim, ID Fellow – Infection Control and Antimicrobial Resistance, 2009-current

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Suchitah Bheemreddy, Medical Observer – Antimicrobial Resistance

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

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



Sylvia Whittington, MPH student - Infectious complications among gunshot victims with decubitus ulcers. 2009-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-	Keith	10%	MRSA in a	\$100,000	Pfizer

	2005	Kaye		network of community hospitals		
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
15	2009-current	Keith Kaye	10%	Evaluation of In Vitro Susceptibilities of Multi-Drug Resistant Gram-Negative Organisms	\$368,995	Pfizer
16	2009-current	Keith Kaye	5%	Cefepime for Gram-negative Infections	\$47,500	Merck
	2009-current	Keith Kaye	5%	Carbapenem-sparing de-escalation protocols	\$25,000	Merck
17	2009-current	Keith Kaye	5%	Antimicrobial Stewardship Infrastructure	\$50,000	Wyeth-Ayerst

## 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 resistance to 3<sup>rd</sup> 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*, 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  $\beta$ -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, Karcmar 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-Susceptible *Staphylococcus aureus* Bacteremia. *Infection Control and Hospital Epidemiology*, 2005, 26(2):175-183.

34. Kaye, KS, Harris, AD, Samore, M, Carmeli, Y. The Case-Case-Control Study Design: Addressing the Limitations of Antimicrobial Resistance Risk Factor Studies. *Infect Control Hosp Epi*, 2005; 26(4): 346-351
- \*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
36. Harris, AD, Carmeli, Y, Samore, MH, Kaye, KS, Perencevich, E. Impact of severity of illness bias and control group misclassification bias in case-control studies of antimicrobial-resistant organisms, *Infection Control and Hospital Epidemiology*, 2005; 26(4): 342-345
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.
38. Chu VH, Crosslin DR, Friedman JY, Reed SD, Cabell CH, Griffiths RI, Masselink LE, Kaye KS, Corey GR, Reller LB, Stryjewski ME, Schulman KA, Fowler VG Jr. *Staphylococcus aureus* bacteremia in patients with prosthetic devices: costs and outcomes. *American Journal of Medicine*, 2005; 118(12): 1416
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, Harril 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.
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48. 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.
49. 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.
50. 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.
51. 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.
52. 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
53. 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
54. 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
55. 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
56. 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
57. 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

58. 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
59. 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
60. 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
61. 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
62. 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.
63. 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.
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, Carmeli, Y. Economic Impact of Bacteremia with Extended-Spectrum  $\beta$ -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.  
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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*. 48<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46<sup>th</sup> 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. 48<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46<sup>th</sup> 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. 48<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46<sup>th</sup> 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 43<sup>rd</sup> MidYear Meeting, Orlando, FL, December, 2008.
108. Nagi, J, Chopra, T, Kaye, K, Alangaden, G. Factors Predictive for Severe *Clostridium difficile* infection (CDI) in the Elderly - A Case-Control Study 47<sup>th</sup> Annual Meeting of the Infectious Diseases Society of America, Philadelphia, PA October 2009
109. Chen, TY, Anderson, DJ, Chopra, T, Choi, Y, Sloane, R, Schmader, KE, Kaye, KS. Impact of Nosocomial Blood Stream Infection (BSI) in the Elderly on Length of Stay and Hospital Cost 47<sup>th</sup> Annual Meeting of the Infectious Diseases Society of America, Philadelphia, PA October 2009
110. Dhar, S, Toftey, B, Dziekan, B, Chevalier, T, Bohlinger, C, Fitch, M, Flanagan, E, Chopra, T, Kaye, K. Observer Effect on Hand Hygiene (HH) Compliance Reporting 47<sup>th</sup> Annual Meeting of the Infectious Diseases Society of America, Philadelphia, PA October 2009
111. Kullar, R, Davis, SL, Rybak, MJ, Kaye, KS. Comparative Epidemiology of MRSAB between older and younger adults. 19<sup>th</sup> Annual Society for Healthcare Epidemiology in America meeting, San Diego, CA, March, 2009.
112. Kaye, KS, Reid, D, Moshos, J, Dhar, S, Hafeez, W. Epidemiology of Carbapenem Resistant *Acinetobacter baumannii* at a community hospital: importance of long-term care facilities as a reservoir and challenges in controlling nosocomial spread. 19<sup>th</sup> Annual Society for Healthcare Epidemiology in America meeting, San Diego, CA, March, 2009.
113. Dhar, S, Davis, L, Semproch, L, Ham, S, Flanagan, E, Asmar, B, Kaye, KS. Surgical Site Infections Following Neurosurgery in Pediatrics. 19<sup>th</sup> Annual Society for Healthcare Epidemiology in America meeting, San Diego, CA, March, 2009.
114. Chopra, T, Kosmidis, C, Dhar, S, Gulish, D, Turner, K, Preney, K, Wood, M, Alangaden, G, Kaye, KS. Epidemiology and outcomes associated with surgical site infection following bariatric surgery. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.
115. Anderson, DJ, Reed, SD, Arduino, JM, Kaye, KS, Grussemyer, CA, Peter, SA, Sexton, DJ, Hardy, C, Choi, Y, Fowler, VG. Comparative Epidemiology of Invasive *Staphylococcus aureus* Infections Following Major Surgical Procedures. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.
116. Chopra, T, Bernabela, L, Johnson, L, Mcnamara, S, Donabedian, S, Perri, M, Salimnia, H, Amjad, M, Pranatharthi, C, Kaye, K, Alangaden, G. Molecular and

epidemiological characterization of *Clostridium difficile* strains in a tertiary care hospital. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.

117. Devine, ST, Anderson, DJ, Ford, KD, Kaye, KS. Clinical benefits associated with alternative strategies of antimicrobial prophylaxis for prevention of surgical site infections: a decision analytic model. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.

118. Reddy, TN, Chopra, T, Pogue, J, Alangaden, G, Salimnia, H, Dhar, S, Kaye, KS. Trends in antimicrobial resistance in *Acinetobacter baumannii* in a Detroit Area Health System. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.

119. Saely, S, Kaye, KS, Fairfax, M, Chopra, T, Pogue, J. Risk factors for ESBL: A focus on previous antibiotic exposure. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.

120. Chen, LF, Reed, SD, Arduino, JM, Fowler, VG, Sexton, DJ, Grusec, CA, Peter, S, Kaye, KS, Ming, DY, Hardy, NC, Anderson, DJ. Epidemiology of *Staphylococcus aureus* infections following major surgery in pediatric patients. 49<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy September, 2009, San Francisco, CA.

121. Chen, T-Y, Chopra, T, Anderson, D J., Choi, Y, Soane, R, Schmader, K, Kaye, K. Predictors for 90-day Mortality after Nosocomial Bloodstream Infection in the Elderly. American Geriatrics Society Meeting, Chicago, IL, May, 2009

122. Kaye, KS, Smilowicz, C, Bentley, L, Kloczek, K. An investigation into the potential transmission of infection via vacuum regulators. Association for Professionals in Infection Control and Epidemiology (APIC) 2009 Annual Conference June, 2009, Ft. Lauderdale, FL.

## **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.

48<sup>th</sup> Annual Interscience Conference on Antimicrobial Agents and Chemotherapy and 46<sup>th</sup> 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.

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

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

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

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

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

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

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

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

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

### **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." IMEDEx, 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.

Wayne State University Infectious Diseases Fellows.  
"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.

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

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

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

Wayne State Medical School. "Infection Control." Detroit, MI, August, 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, "Antimicrobial Stewardship." Dearborn, MI, September 2009.

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

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.

University of Texas Southwestern Infectious Diseases Roundtable Series. "Antimicrobial Stewardship." Dallas, TX, January, 2010.

### **3. Other scholarly work**