



Curriculum Vitae

Christopher J. Crnich, MD PhD

Personal Data

Office Address: 1685 Highland Avenue, MFCB 5217, Madison, WI 53705
Office Number: (608) 262-4558
Fax Number: (608) 263-4464
E-mail: cjc@medicine.wisc.edu

Education

Undergraduate

1989 – 1993 B.S., Biology, University of Illinois at Urbana-Champaign, Champaign, IL

Graduate/Medical School

1993 – 1997 M.D., Medicine, Rush Medical College, Chicago, IL
2002 – 2004 M.S., Population Health Sciences, University of Wisconsin, Madison, WI
2005 – 2013 Ph.D., Population Health Sciences, University of Wisconsin, Madison, WI

Residency

1997 – 2000 Resident, Medicine, University of Wisconsin, Madison, WI
2000 – 2001 Chief Resident, Medicine, University of Wisconsin, Madison, WI

Postgraduate/Fellowship

2001 – 2003 Clinical Fellow, Infectious Diseases, University of Wisconsin, Madison, WI
2003 – 2005 Research Fellow, Infectious Diseases, University of Wisconsin, Madison, WI

Other

2005 – 2007 Infectious Diseases and Aging: Clinical Scientist Development Grant (NCRR K12 RR023268-04, PI: Carnes)
2007 – 2009 Infectious Diseases and Aging: Clinical Scientist Development Grant (NCRR K12 RR025012-01, PI: Drezner)

Certification and Licensure

Medical or Other Professional Licensure

Internal Medicine (12/2022)
Infectious Diseases (12/2024)

Present Appointment/Position

2007 – 2014 Assistant Professor, Division of Infectious Diseases, Department of Medicine, UWSMPH, Madison, WI
2007 – Present Staff Physician, Wm. S. Middleton Veterans Administration Hospital, Madison, WI
2009 – Present Affiliate Appointment as Assistant Professor in the Division of Geriatrics, Department of Medicine, UWSMPH, Madison, WI

- 2009 – Present Hospital Epidemiologist, Wm. S. Middleton Veterans Administration Hospital, Madison, WI
- 2009 – Present Assistant Director of Infection Control, University of Wisconsin Hospital and Clinics, Madison, WI
- 2013 – Present Affiliate Appointment as Assistant Professor in the Department of Systems and Industrial Engineering, UW College of Engineering, Madison, WI
- 2013 – Present Affiliate Staff, Wm. S. Middleton Veterans Administration Geriatrics Research Education and Clinical Center (GRECC), Madison, WI
- 2014 – Present Associated Professor with Tenure, Division of Infectious Diseases, Department of Medicine, UWSMPH, Madison, WI
- 2015 – Present Chief of Medicine, Wm. S. Middleton Veterans Administration Hospital, Madison, WI

Past Appointments/Positions

- 2007 – 2010 Hospital Epidemiologist, Select Care Specialty Hospital, Madison, WI
- 2005 – 2007 Clinical Assistant Professor, Section of Infectious Diseases, Department of Medicine, UWSMPH, Madison, WI

Professional Society Memberships

- 1996 – 2000 American Medical Association
- 1997 – Present American College of Physicians
- 2001 – Present Infectious Disease Society of America
- 2002 – Present American Society for Microbiology
- 2003 – 2007 Association for Professionals in Infection Control and Epidemiology
- 2003 – Present Society for Healthcare Epidemiology of America
- 2004 – Present American Medical Directors Association

Honors and Awards

- 1993 Graduation with Distinction, University of Illinois, Urbana-Champaign
- 1996 Alpha Omega Alpha, Rush Medical School
- 2003 Infection Prevention Fellowship Award, Society for Healthcare Epidemiology of America
- 2006 David A. Kindig Scholarship for Outstanding Research Potential, University of Wisconsin School of Population Health Sciences
- 2007 Wisconsin Partnership Fund for Healthy Future New Investigator Award, University of Wisconsin School of Medicine and Public Health
- 2008 *Clinical Infectious Diseases* Award for Outstanding Review – award given by the editorial staff of the journal to individuals who are deemed to be in the top 5% of peer reviewers
- 2011 Fellow of the American College of Physicians (FACP), Inducted April 7, 2011 at the Annual American College of Physicians Internal Medicine Meeting, San Diego, CA
- 2011 Outstanding Research Poster Award, University of Wisconsin Department of Medicine 3rd Annual Research Day, June 3rd.
- 2012 Invited Contributor to the Centers for Disease Control and Prevention's Division for Healthcare Quality and Promotion – Safe Healthcare Blog. "*Inappropriate Antibiotic Use in Nursing Homes: A Systems Problem*", may be viewed at: <http://blogs.cdc.gov/safehealthcare/?p=2675>.

2013 *Annals of Internal Medicine* Letter of Recognition for Outstanding Scientific Peer Review

2013 Outstanding Research Poster Award, University of Wisconsin Department of Medicine 5th Annual Research Day, June 7th.

2014 Voted to the Best Doctors in America List – an honor determined by physician peer review that recognizes the top 5% of U.S. physicians in their respective specialty/subspecialty.

Grant Support

Current

Project: **Improving Outcomes of Urinary Tract Infection in Long-Term Care Facilities: The IOU Study**

Sponsor: Agency for Healthcare Research and Quality (R18: PA-12-240)

Amount: \$1,500,000

Dates: Submitted April 2014

Role: Co-Investigator (PI: David Nace, University of Pittsburgh)

Percent Effort: 10%

Project: **Building a Novel Antibiotic Stewardship Intervention for Nursing Homes**

Sponsor: Agency for Healthcare Research and Quality (1R18HS022465-01)

Amount: \$1,500,000

Dates: 2014-2017

Role: PI

Percent Effort: 30%

Project: **Nursing Home Antibiotic Stewardship Tools and Guide**

Sponsor: Agency for Healthcare Research and Quality (Accelerating Change and Transformation in Organizations and Networks [ACTION] II Task Order #25)

Amount: \$1,500,000

Dates: 2013-2016

Role: Sub-Contracted Consultant (Primary Contractor: American Institute for Research / Project Director: Elizabeth Frenzel)

Percent Effort: 5%

Project: **Copper Treatment to Reduce Microbial Contamination of Hospital Surfaces**

Sponsor: Engineered Materials Inc.

Amount: \$14,000

Dates: 2014-2015

Role: PI

Percent Effort: 5%

Project: **Measuring Inappropriate Antibiotic use in Wisconsin Skilled Nursing Facilities**

Sponsor: State of Wisconsin (Civil Monetary Penalty Fund Program)

Amount: \$89,000

Dates: 2013-2014

Role: PI

Percent Effort: 10%

Project: **Comparative Safety and Effectiveness of Isolation in VHA Community Living Centers**
Sponsor: Veterans Administration, HSR&D (Collaborative Research to Enhance and Advance Transformation and Excellence [CREATE] Initiative)
Amount: \$4,200,000
Dates: 2013-2018
Role: Co-Investigator (PI: Morgan)
Percent Effort: 5%

Pending

Project: **Epicenters for the Prevention of Healthcare Associated Infections (HAIs)**
Sponsor: Centers for Disease Control and Prevention (RFA-CK-15-004)
Amount: \$500,000
Dates: Submitted June 2015
Role: Co-I
Percent Effort: 5%

Project: **Combating Antimicrobial Resistance through Rapid Implementation of Available Guidelines and Evidence (CARRIAGE)**
Sponsor: Veterans Administration Quality Enhancement Research Initiative (QUERI) (IP1) Programs (RFA# HX-15-019)
Amount: \$1,000,000
Dates: Submitted June 2015
Role: Co-I
Percent Effort: 5%

Project: **Identifying Social Deprivation to Reduce Infections in Veterans having Surgery**
Sponsor: Veterans Administration, HSR&D (RFA# 112HX001722-01)
Amount: \$100,000
Dates: Re-submitted June 2015
Role: PI
Percent Effort: 5%

Major Past Awards

Project: **A Multi-Site Educational Intervention to Improve the Treatment of Infections Among Older Veterans**
Sponsor: Veterans Administration, Office of Geriatrics and Extended Care (T-21: Patient Centered Alternatives to Institutional Extended Care Pilot Program)
Amount: \$240,000
Dates: 2013-2014
Role: Co-PI (PI: Jump)
Percent Effort: 5%

Project: **Understanding the Antibiotic Start Process in Nursing Homes**
Sponsor: UWSMPH, Department of Medicine (Pilot Grant)
Amount: \$50,000
Dates: 2012-2014

Role: PI
Percent Effort: 5%

Project: **Evaluating Innovative Public-Private Collaborative Initiative to Improve Health, Safety, and Quality of Life in Wisconsin Assisted Living Facilities**
Sponsor: UW ICTR (Community Academic Partnership – Community Collaboration Grant Program)
Amount: \$200,000
Dates: 2011-2013
Role: Co-PI (PI: Zimmerman)
Percent Effort: 8%

Project: **Molecular Epidemiology of Antibiotic Resistance in Community Nursing Homes**
Sponsor: UWSMPH, Department of Medicine
Amount: \$150,000
Dates: 2008-2012
Role: PI
Percent Effort: 5%

Project: **Facility-Level Correlates of *Clostridium Difficile* Rates in Long-Term Care Facilities**
Sponsor: UW Hartford Center of Excellence Award (Pilot Project Program)
Amount: \$50,000
Dates: 2010
Role: Scholar (PI: Asthana)
Percent Effort: 5%

Project: **Skin and Environmental Colonization with Methicillin-Resistant *Staphylococcus Aureus* (MRSA) Among VA Community Living Center Residents**
Sponsor: UW ICTR (NCRR/NIH RR025011-01: Pilot Project Program)
Amount: \$50,000
Dates: 2009-2010
Role: PI (Parent Grant PI: Drezner)
Percent Effort: 5%

Project: **Infectious Disease Outcomes in Older Adults: Mentored Training Award**
Sponsor: UW ICTR (NCRR/NIH RR025011-01: K-12 Program)
Dates: 2007-2009
Role: Scholar (PI:Drezner)

Project: **Epidemiology of Fluoroquinolone-Resistant Gram-Negative Bacilli in Nursing Homes**
Sponsor: Wisconsin Partnership for a Healthy Future (New Investigator Award Program)
Amount: \$100,000
Dates: 2007-2008
Role: PI
Percent Effort: 20%

Project: **Epidemiology of Methicillin-Resistant *Staphylococcus Aureus* (MRSA) in**

Nursing Homes

Sponsor: Hartford Foundation & Infectious Disease Society of America (T. Franklin Williams Scholarship Program)

Amount: \$100,000

Dates: 2006-2008

Role: PI

Percent Effort: 20%

Project: **Infectious Disease Outcomes in Older Adults: Mentored Training Award**

Sponsor: UWSMPH Training and Education to Advance Multidisciplinary (TEAM) Research Program (NCRR/NIH RR023268-04: K-12 Program)

Dates: 2005-2007

Role: Scholar (PI: Carnes)

Project: **Use of a 50% Ethanol Lock Solution to Prevent Central Line-Associated Infection**

Sponsor: 3M & the Society for Healthcare Epidemiology of America (Infection Prevention Fellowship Program)

Amount: \$100,000

Dates: 2003-2005

Role: Scholar (Mentor: Maki)

Percent Effort: 75%

Publications

Papers accepted for publication in refereed journals

Key: (a): Concept design and development
 (b): Data acquisition and research
 (c): Analysis
 (d): Writing

* indicates the five most noteworthy since joining the UW

1. Saifuddin M, **Crnich C**, Long T, Saarloos MN and Spear GT. Transfer of host T-cell membrane HLA-DR and CD25 to target cells by human retroviruses. *J Acquir Immune Defic Syndr Hum Retrovirol* 1998; 17(3): 196-202. PMID: 9495217. Policy exempt – Not resulting from NIH funding.
a:25% b:50% c:50% d:15%
2. Safdar N, **Crnich CJ**, Maki DG. Nosocomial infections in the intensive care unit associated with invasive medical devices. *Curr Infect Dis Rep* 2001; 3(6):487-495. PMID: 11722804. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:25% c:25% d:25%
3. **Crnich CJ**, Maki DG. The role of intravascular devices in sepsis. *Curr Infect Dis Rep* 2001; 3(6):497-506. PMID: 11722805. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:75% d:90%

4. Donowitz GR, Maki DG, **Crnich CJ**, Pappas PG and Rolston KV. Infections in the neutropenic patient--new views of an old problem. *Hematology* 2001:113-39. PMID: 11722981. Policy exempt – Review.
a:50% b:75% c:75% d:90%
- * 5. **Crnich CJ**, Maki DG. The promise of novel technology for the prevention of intravascular device-related bloodstream infection. I. Pathogenesis and short-term devices. *Clin Infect Dis* 2002; 34(9): 1232-42. PMID: 11941550. Policy exempt – Not resulting from NIH funding.
a:50% b:85% c:85% d:90%
- * 6. **Crnich CJ**, Maki DG. The promise of novel technology for the prevention of intravascular device-related bloodstream infection. II. Long-term devices. *Clin Infect Dis* 2002; 34(10): 1362-8. PMID: 11981732. Policy exempt – Not resulting from NIH funding.
a:50% b:85% c:85% d:90%
7. **Crnich CJ**, Gordon B and Andes D. Hot tub-associated necrotizing pneumonia due to *Pseudomonas aeruginosa*. *Clin Infect Dis* 2003; 36(3): e55-7. PMID: 12539092. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:75% d:100%
8. **Crnich CJ**, Proctor RA. Ventilator-associated pneumonia: does surveillance have a role in its management? *Crit Care Med* 2003; 31(9): 2411-2. PMID: 14501981. Policy exempt – Accepted for pub prior to 04/07/08.
a:75% b:100% c:100% d:90%
9. Rosenthal VD, Guzman S and **Crnich CJ**. Effect of an infection control program utilizing education and performance feedback on rates of intravascular device-associated bloodstream infection in intensive care units in Argentina. *Am J Infect Control* 2003; 31(7): 405-9. PMID: 14639436. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:50% c:100% d:85%
10. Rosenthal VD, Guzman S, Migone O, **Crnich CJ**. The attributable cost, length of hospital stay, and mortality of central line associated bloodstream infection in intensive care units in Argentina. A prospective, matched analysis. *Am J Infect Control* 2003; 31(8): 475-480. PMID: 14647110. Policy exempt – Not resulting from NIH funding.
a:25% b:50% c:100% d:85%
11. Rosenthal VD, Guzman, S, **Crnich C**. Device-associated nosocomial infection rates in intensive care units in Argentina. *Infect Control Hosp Epidemiol* 2004; 25(3): 1-5. PMID: 15061418. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:50% c:100% d:85%
12. **Crnich CJ**, Proctor RA. Treatment of pneumococcal pneumonia: what's in an MIC? *Crit Care Med* 2004; 32(3): 876-878. PMID: 15090976. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:75% d:75%
13. **Crnich CJ**, Maki DG. Are antimicrobial-impregnated catheters effective? Don't throw out the baby with the bathwater. *Clin Infect Dis* 2004; 38(9): 1287-1292. PMID: 15127342. Policy exempt – Accepted for pub prior to 04/07/08.

a:75% b:100% c:100% d:90%

14. Drinka PJ, **Crnich CJ**. An approach to endemic multi-drug-resistant bacteria in nursing homes. *J Am Med Dir Assoc* 2005; 6(2): 132-136. PMID: 15871889. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:75% d:75%
15. Safdar N, **Crnich CJ**, Maki DG. The pathogenesis of ventilator-associated pneumonia: its relevance to developing effective strategies for prevention. *Respir Care* 2005; 50(6): 725-39. PMID: 15913465. Policy exempt – Not resulting from NIH funding.
a:5% b:10% c:45% d:50%
16. **Crnich CJ**, Safdar N, Maki DG. The role of the ICU environment in the pathogenesis and prevention of ventilator-associated pneumonia. *Respir Care* 2005; 50(6): 813-36. PMID: 15913471. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:50% c:50% d:90%
17. **Crnich CJ**, Maki DG. Are antimicrobial-impregnated catheters effective? When does repetition reach the point of exhaustion? *Clin Infect Dis* 2005; 41(5): 681-5. PMID: 16080091. Policy exempt – Accepted for pub prior to 04/07/08.
a:75% b:100% c:100% d:90%
18. Maki DG, **Crnich CJ**. Line sepsis in the ICU. *Semin Respir Crit Care Med* 2002; 24(1):23-36. PMID: 16088522. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:100% c:100% d:90%
- * 19. **Crnich CJ**, Halfmann JA, Crone WC, Maki DG. The effects of prolonged ethanol exposure on the mechanical properties of polyurethane and silicone catheters used for long-term intravascular access. *Infect Control Hosp Epidemiol* 2005; 26(8): 708-714. PMID: 16156328. Policy exempt – Accepted for pub prior to 04/07/08.
a:75% b:50% c:75% d:85%
20. Drinka PJ, **Crnich CJ**. Pneumonia in the nursing home. *J Am Med Dir Assoc* 2005; 6(5): 342-50. PMID: 16165077. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:75% d:50%
21. Maki DG, **Crnich CJ**. History forgotten is history relived: nosocomial infection control is also essential in the outpatient setting. *Arch Intern Med* 2005; 165(22): 2565-7. PMID: 16344410. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:50% c:50% d:50%
22. Rosenthal VD, Guzman, S, **Crnich C**. Impact of an infection control program on rates of ventilator-associated pneumonia in intensive care units in Argentina. *Am J Infect Control* 2006; 34(2): 58-63. PMID: 16490607. Policy exempt – Accepted for pub prior to 04/07/08.
a:25% b:50% c:100% d:85%
- * 23. Maki DG, Kluger DM, **Crnich CJ**. The risk of bloodstream infection in adults with different intravascular devices: A systematic review of 200 published prospective studies. *Mayo Clin Proc* 2006; 81(9): 1159-71. PMID: 16970212. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:100% d:85%

24. **Crnich CJ**, Drinka P. Does the composition of urinary catheters influence clinical outcomes and the results of research studies?" *Infect Control Hosp Epidemiol* 2007; 28(1): 102-3. PMID: 17301937. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:75% d:50%
- * 25. **Crnich CJ**, Safdar N, Robinson J, Zimmerman DR. Longitudinal trends in antibiotic resistance in US nursing homes, 2000-2004. *Infect Control Hosp Epidemiol* 2007; 28(8): 1006-8. PMID: 17620252. Policy exempt – Accepted for pub prior to 04/07/08.
a:90% b:50% c:100% d:85%
26. Drinka P, **Crnich CJ**. Diagnostic accuracy of criteria for urinary tract infection in a cohort of nursing home residents. *J Am Geriatr Soc* 2008; 56(2): 376-7. PMID: 18251831. Policy exempt – Accepted for pub prior to 04/07/08.
a:50% b:75% c:100% d:50%
27. **Crnich CJ**, Drinka P. Treatment of bacteriuria in older adults: still room for improvement. *J Am Med Dir Assoc* 2008; 9(8): 542-4. PMID: 19083286. Policy exempt – Not resulting from NIH funding.
a:75% b:75% c:75% d:50%
28. **Crnich CJ**, Zimmerman DR. Bacteremic outcomes in older adults: what is age telling us? *J Am Geriatr Soc* 2008; 56(9): 1750-2. PMID: 19166447. Policy exempt – Not resulting from NIH funding.
a:100% b:100% c:100% d:90%
29. Nace DA, Drinka PJ, **Crnich CJ**. Herpes zoster vaccine in nursing facility residents: safety questions remain. *Ann Intern Med* 2010; 153(3): 210-1. PMID: 20679571. Policy exempt – Not resulting from NIH funding.
a:40% b:50% c:50% d:50%
30. **Crnich CJ**. Estimating excess length of stay due to central line-associated bloodstream infection: separating the wheat from the chaff. *Infect Control Hosp Epidemiol* 2010; 31(11): 1115-7. PMID: 20923283. Policy exempt – Not resulting from NIH funding.
a:100% b:100% c:100% d:100%
31. Drinka P, Niederman MS, El-Solh AA, **Crnich CJ**. Assessment of risk factors for multi-drug resistant organisms to guide empiric antibiotic selection in long term care: a dilemma. *J Am Med Dir Assoc* 2011; 12(5): 321-5. PMID: 21450192. Policy exempt – Not resulting from NIH funding.
a:50% b:75% c:75% d:50%
32. Drinka P, Bonham P, **Crnich CJ**. Swab culture of purulent skin infection to detect infection or colonization with antibiotic-resistant bacteria. *J Am Med Dir Assoc* 2012; 13(1): 75-9. PMID: 21621476. Policy exempt – Review.
a:50% b:75% c:75% d:35%
33. Graves N, Barnett A, Halton K, **Crnich CJ**, Cooper B, Beyersmann J, Wolkewitz M, Samore M, Harbarth S. The importance of good data, analyses, and interpretation for showing the economics of reducing healthcare-associated-infection. *Infect Control Hosp Epidemiol* 2011; 32(9): 927-8. PMID: 21828978. Policy exempt – Not resulting from NIH funding.

a:20% b:20% c:20% d:20%

34. **Crnich CJ**, Drinka P. Medical device-associated infections in the long-term care setting. *Infect Dis Clin N Am* 2012; 26(1): 143-64. PMID: 22284381. Policy exempt – Review.
a:100% b:100% c:90% d:90%
35. Stone ND, Ashraf MS, Calder J, **Crnich CJ**, Crossley K, Drinka PJ, Gould CV, Juthani-Mehta M, Lautenbach E, Loeb M, Maccannell T, Malani PN, Mody L, Mylotte JM, Nicolle L, Roghmann M, Simor AE, Smith PW, Stevenson KB, Scheown S, Bradley SF. Surveillance definitions for infections in long-term care facilities: revisiting the McGeer criteria. *Infect Control Hosp Epidemiol* 2012; 33(10): 965-77. PMID:22961014. PMCID: PMC3538836.
a:10% b:20% c:20% d:15%
- * 36. **Crnich CJ**, Drinka P, Duster M, Zimmerman DR. Antibiotic resistance in non-major metropolitan skilled nursing facilities: prevalence and inter-facility variation. *Infect Control Hosp Epidemiol* 2012; 33(11): 1172-74. PMID: 23041821. PMCID: PMC3557526.
a:100% b:100% c:100% d:90%
37. Drinka P, Podzorski R, Griffin V, **Crnich CJ**. Antibiogram of urinary isolates. *J Am Med Dir Assoc* 2013; 14(6): 443. PMID: 23537894. Policy exempt – Not resulting from NIH funding.
a:25% b:25% c:25% d:40%
38. **Crnich CJ**, Drinka P. Predicting the impact of contact precautions on MRSA outcomes: caution up ahead. *Infect Control Hosp Epidemiol* 2013; 34(6):646-7. PMID: 23651901. Policy exempt – Not resulting from NIH funding.
a:75% b:75% c:100% d:90%
39. **Crnich CJ**, Drinka P, Nace D. An antibiotic prescription induces resistance at the individual level more than the group level. *J Am Med Dir Assoc* 2013; 34(7): *ahead of print*. PMID: 23773302. Policy exempt – Not resulting from NIH funding.
a:40% b:40% c:40% d:25%
40. Haemel A, Bearden A, Longley J, **Crnich CJ**. Black spots in the returning traveler. *Dermatology Online Journal* 2013; 19(11): 20393. PMID 24314770. Policy exempt – Not resulting from NIH funding.
a:25% b:25% c:25% d:25%
41. Nace DA, Drinka PJ, **Crnich CJ**. Clinical uncertainties in the approach to long term care residents with possible urinary tract infection. *J Am Med Dir Assoc* 2014; 15(2): 133-9. PMID 24461240. Policy exempt – Not resulting from NIH funding.
a:15% b:25% c:40% d:40%
42. **Crnich CJ**, Duster M, Warrack S, Maki D, Safdar N. Comparison of pulsed-gel electrophoresis and a commercial repetitive-element PCR typing method for assessment of methicillin-resistant *Staphylococcus aureus* clustering in different healthcare facilities. *J Clin Microbiol* 2014; 52(6): 2027-32. PMID: 24671801
a:100% b:75% c:75% d:85%
43. Brennan M, Kolehmainen C, Barocas J, Isaac C, **Crnich C**, Sosman J. Barriers and facilitators of universal HIV screening among internal medicine residents. *Wisconsin Med J* 2013; 112(5): 199-205. PMID: 24734414. Policy exempt – Not resulting from NIH funding.

a:10% b:15% c:25% d:25%

44. Abad C, Mosley R, **Crnich C**, Saint S, Safdar N. Clinical problem solving: A gut instinct. *N Engl J Med* 2014; 371(6): 560-4. PMID: 25099581. Policy exempt – Not resulting from NIH funding.

a:10% b:10% c:10% d:10%

45. Brennan MB, Barocas JA, Crnich CJ, Hess TM, Kolehmainen CJ, Sosman JM, Sethi AK. “Oops! I forgot HIV”: Resident physician self-audits and universal HIV screening. *J Infect Public Health* 2014; 8(2): 161-9. PMID: 25277258. Policy exempt – Not resulting from NIH funding.

a:10% b:15% c:25% d:25%

46. Jump RLP, Heath B, **Crnich CJ**, Moehring R, Schmader KE, Olds D, Higgins PA. Knowledge, beliefs, and confidence regarding infections and antimicrobial stewardship: a survey of Veterans Affairs providers who care for older adults. *Am J Infect Control* 2015; 43(3): 298-300. PMID: 25728158. Policy exempt – Not resulting from NIH funding.

47. a:25% b:25% c:25% d:25%

48. Mody L, **Crnich C**. Inappropriate antibiotic use in nursing homes: a problem with facility-wide consequences. *JAMA Intern Med* 2015; (accepted for publication)

a:50% b:50% c:50% d:50%

Papers submitted to refereed journals but not yet accepted for publication

1. Klein K, McKinley L, Matteson K, Stampfli C, **Crnich CJ**. Improving methicillin-resistant *Staphylococcus aureus* infection control strategies: identifying high-risk surgical patients for pre-emptive contact isolation. *Am J Infect Control* 2014; (under revision).
2. **Crnich CJ**, Duster M, Hess T, Drinka P, Zimmerman DR. The impact of fluoroquinolone antibiotics and other potentially modifiable determinants on risk of methicillin-resistant *Staphylococcus aureus* colonization in community nursing homes. *J Am Geriatr Soc* 2014; (submitted for review).
3. **Crnich CJ**, Jump R, Trautner B, Sloane PD, Mody L. Optimizing antibiotic stewardship in post-acute and long-term care facilities: a narrative review and recommendations for improvement. *Drugs & Aging* 2015; (under revision)

Papers under preparation for submission to refereed journals

1. Warrack S, Duster M, Zehm A, Hoerres D, Drinka P, Zimmerman DR, **Crnich CJ**. Measurement and variation of methicillin-resistant *Staphylococcus aureus* (MRSA) acquisition in community nursing homes. *Clin Infect Dis* 2014; (will be submitted after national scientific meeting embargo lifted).
2. Dreis M, Drinka P, Zimmerman DR, Hess T, **Crnich CJ**. Antimicrobial use in skilled nursing facilities: impact of measurement metrics on observed inter-facility variation. *Infect Control Hosp Epidemiol* 2014; (manuscript in preparation).

3. Warrack S, Duster M, Drinka P, Zimmerman DR, **Crnich CJ**. Variations in clustering and acquisition of fluoroquinolone-resistant *Escherichia coli* among residents of skilled nursing homes in the same region. *Infect Control Hosp Epidemiol* 2014; (*manuscript in preparation*).
4. Duke E, Drinka P, Hess T, **Crnich CJ**. MRSA carriage patterns and durability of colonization in residents of nursing homes. *Infect Control Hosp Epidemiol* 2014; (*manuscript in preparation*).
5. Batina NG, **Crnich CJ**, Anderson DF, Dopfer DDV. Risk factor-dependent transition dynamics of healthcare- and community-associated MRSA in community nursing homes. *J Infect Dis* 2014; (*manuscript in preparation*)

Non-Refereed Articles

1. Drinka P, Vance J, **Crnich CJ**. The infection prevention program in long-term care. *Long-Term Living* 2011; 60(6): 22-6.
2. **Crnich CJ**. Impact and management of MRSA in the long-term care setting. *Curr Transl Geriatr and Gerontol Rep* 2013; 2(3): 125-35.
3. Drinka P, **Crnich CJ**. Improving the management of urinary tract infection in nursing homes: its time to stop the tail from wagging the dog. *Ann Long Term Care* 2014; 22(9): 32-36.

Chapters in Books

1. **Crnich CJ**, Safdar N, Maki DG. Infections associated with implanted medical devices. In: Finch RG, Greenwood D, Norrby SR and Whitley RJ, eds. *Antibiotic and Chemotherapy: Anti-Infective Agents and Their Use in Therapy*. 8th ed. New York, N. Y.: Churchill Livingstone, 2003:575-618.
2. **Crnich CJ**, Maki DG. Infections of vascular devices. In: Armstrong D, Cohen J, eds. *Infectious Diseases*. 2nd ed. Philadelphia: Mosby, 2003:722-43.
3. **Crnich CJ**, Maki DG. Practice Point: Should all infected intravascular devices be removed? In: Armstrong D, Cohen J, eds. *Infectious Diseases*. 2nd ed. Philadelphia: Mosby, 2003:769-82.
4. Glassroth J, **Crnich CJ**. Pulmonary infections caused by mycobacterial species. In: Crapo JD, Glassroth J, Karlinsky J and King TE, eds. *Textbook of Pulmonary Diseases*. 7th ed. Philadelphia: Lippincott Williams & Wilkins, 2003:373-404.
5. **Crnich CJ**, Maki DG. Infections caused by intravascular devices: epidemiology, pathogenesis, diagnosis, prevention, and treatment. *APIC Text of Infection Control and Epidemiology*. 2nd ed. Vol. 1. Washington D.C.: Association for Professionals in Infection Control and Epidemiology, Inc., 2005: 24.1-24.26.
6. Safdar N, **Crnich CJ**, Maki DG. Infections associated with chemotherapy. In: Chang AE, Ganz PA, Hayes DF, Kinsella T, Pass HI, Schiller JH, Stone RM, Strecher V, eds. *Oncology - An Evidence-Based Approach*. New York, NY: Springer Science, 2006; 1363-1400.

7. Maki DG, **Crnich CJ**, Safdar NS. Nosocomial infection in the intensive care unit. In: Parrillo JE, Dellinger RP, eds. *Critical Care Medicine: Principles of Diagnosis and Management in the Adult*. 3rd ed. Philadelphia, PA: Elsevier, 2007; 1003-1069.
8. **Crnich CJ**, Maki DG. Infections caused by intravascular devices: epidemiology, pathogenesis, diagnosis, prevention, and treatment. In: *APIC Text of Infection Control and Epidemiology*. 3rd ed. Vol. 1. Washington D.C.: Association for Professionals in Infection Control and Epidemiology, Inc., 2009: 24.1-24.26.
9. Brennan M, **Crnich CJ**. Intracardiac device infections. In: Weber S, Salgado C, eds. *Healthcare-Associated Infections: A Case-based Approach to Diagnosis and Management*. 1st ed. New York, NY: Oxford University Press, 2013.

Monographs or Books

None

Technical Reports/Other Publications

None

Abstracts

1. **Crnich CJ**, Aiyangar A, Crone WC, Maki DG. Prolonged exposure to 70% ethanol does not alter the mechanical properties of polyurethane and silicone catheters [poster presentation]. In: *Abstracts and Proceedings from the 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy*. San Diego, CA: ASM Press, 2002.
2. Maki DG, **Crnich CJ**, Safdar N. Successful use of a 25% alcohol lock solution for prevention of recurrent CVC-related bloodstream infection in a patient on home TNA [oral presentation]. *Abstracts and Proceedings from the 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy*. Washington, DC: ASM Press, 2002.
3. Rosenthal VD, Guzman S, **Crnich C**. Device-associated nosocomial infection rates in intensive care units of Argentina [poster presentation]. In: *Abstracts and Proceedings from the thirteenth annual scientific meeting of the Society for Healthcare Epidemiology of America*. Washington, DC: Slack Publishing, 2003.
4. Rosenthal VD, Guzman S, Mattera J, Almuzara M, Caniete G, **Crnich C**. Effect of hand culture on handwashing compliance in Argentina [poster presentation]. In: *Proceedings and Abstracts from the 31st Annual Meeting of the Association for Professionals in Infection Control and Epidemiology*. Pheonix, AZ: Mosby, 2004.
5. Rosenthal VD, Guzman S, **Crnich C**. Performance feedback on handwashing compliance in Argentina is not enough [poster presentation]. In: *Abstracts and Proceedings from the Fourteenth annual scientific meeting of the Society for Healthcare Epidemiology of America*. Philadelphia, PA: Slack Publishing, 2004.
6. **Crnich CJ**, Slattery J, Maki DG. Risk of bloodstream infection with different types of intravascular devices in a large outpatient infusion service [oral presentation]. Presented at the

Fourteenth annual scientific meeting of the Society for Healthcare Epidemiology of America. Philadelphia, PA. March 24, 2004.

7. **Crnich CJ**, Zimmerman DR, Maki DG. Antibiotic resistance in nursing homes: A proposal to determine the impact of infection control and staffing quality [poster presentation]. Presented at the National Institutes of Health Multidisciplinary Clinical Research Career Development K12 Roadmap Meeting, Silver Spring, Maryland, May 4-5, 2006.
8. **Crnich CJ**, Safdar N, Robinson J, Zimmerman DR, Maki DG. Longitudinal trends in antibiotic resistance in U.S. nursing homes: 2000-2004 [poster presentation]. Presented at the 44th Annual Meeting of the Infectious Disease Society of America, Toronto, Ontario, Canada, October 12-15, 2006.
9. **Crnich CJ**, Zimmerman DR. Antibiotic resistance in nursing homes [oral presentation]. Presented at the American Medical Director Association's 30th Annual Symposium, Hollywood, FL. March 31, 2007.
10. **Crnich CJ**, Drinka P, Maki DG, Zimmerman DR. Antibiotic resistance in nursing homes: a proposal for research in Wisconsin nursing homes [poster presentation]. Presented at the American Geriatrics Society Annual Meeting. Seattle, WA. May 4, 2007.
11. **Crnich CJ**, Drinka P, Maki DG, Zimmerman DR. Transmission of Antibiotic Resistance in Nursing Homes: preliminary data from an ongoing epidemiologic study in Wisconsin [oral presentation]. Presented at the American Geriatrics Society Annual Meeting. Washington, DC. May 2, 2008.
12. **Crnich CJ**, Drinka P, Maki DG, Zimmerman DR. Colonization with antibiotic-resistant bacteria in nursing homes: differences in risk factors for MRSA and fluoroquinolone-resistant gram-negative bacteria [poster presentation]. Presented at the American Geriatrics Society Annual Meeting. Washington, DC. May 3, 2008.
13. **Crnich CJ**, Drinka P, Zimmerman D, Maki D. Multi-anatomical versus nares-only surveillance cultures for detection of MRSA colonization status among nursing home residents [poster presentation]. Presented at the 19th Annual Society for Healthcare Epidemiology of America Meeting. San Diego, CA. March 20, 2009.
14. **Crnich CJ**, Drinka P, Zimmerman D, Maki D. Differences in risk factors for colonization with MRSA and fluoroquinolone-resistant bacteria among nursing home residents [poster presentation]. Presented at the 19th Annual Society for Healthcare Epidemiology of America Meeting. San Diego, CA. March 20, 2009.
15. **Crnich CJ**, Drinka P, Zimmerman D, Maki D. The impact of functional status on colonization with antibiotic resistant bacteria among nursing home residents [poster presentation]. Presented at the 19th Annual Society for Healthcare Epidemiology of America Meeting. San Diego, CA. March 20, 2009.
16. Thompson D, McKinley L, **Crnich C**. Monitoring compliance with the VAP bundle: large discrepancies between administrative data and direct observation [poster presentation]. Presented at the 19th Annual Society for Healthcare Epidemiology of America Meeting. San Diego, CA. March 20, 2009.

17. **Crnich CJ**, Jones A, Duster M, Maki DG. A randomized trial of a 50% ethanol lock for prevention of central-line associated bloodstream infection [oral presentation]. Presented at the 49th International Conference on Antimicrobial Agents and Chemotherapy, San Francisco, CA, American Society for Microbiology. September 14, 2009.
18. **Crnich CJ**, Drinka P, Maki DG, Zimmerman DR. Persistence of colonization with antibiotic-resistant bacteria among nursing home residents [poster presentation]. Presented at the 47th Annual Meeting of the Infectious Disease Society of America, Philadelphia, PA, Infectious Disease Society of America. October 30, 2009.
19. **Crnich CJ**, Drinka P, Maki DG, Zimmerman DR. Health outcomes of nursing home residents colonized with antibiotic-resistant bacteria [poster presentation]. Program and Abstracts of the 47th Annual Meeting of the Infectious Disease Society of America, Philadelphia, PA, Infectious Disease Society of America. October 30, 2009.
20. **Crnich CJ**, Duster M, Warrack S, Maki DG, Safdar N. Strain Typing of MRSA by Repetitive-Element PCR and Pulsed-Field Gel Electrophoresis (PFGE) [poster presentation]. Presented at the 48th Annual Meeting of the Infectious Disease Society of America, Vancouver, British Columbia, Infectious Disease Society of America. October 23, 2010.
21. **Crnich CJ**, Filas-Mortensen P, Klokow P, Drinka P, Duster M, Warrack S, Zimmerman DG. Risk factors for acquisition of fluoroquinolone-resistant gram-negative bacilli in nursing homes [poster presentation]. Presented at the 48th Annual Meeting of the Infectious Disease Society of America, Vancouver, British Columbia, Infectious Disease Society of America. October 24, 2010.
22. Warrack S, Duster M, **Crnich CJ**. Clonal relationships of fluoroquinolone-resistant *E. coli* recovered from nursing home residents [poster presentation]. Presented at the 2011 Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Dallas, TX, Society for Healthcare Epidemiology of America. April 2, 2011.
23. Safdar N, Spiegel C, Marx J, Meinholz K, Ircink F, Hla KM, **Crnich CJ**, Brennan M, Kazmierczak JJ. Exposure to Brucella in clinical microbiology laboratory workers: acceptability of antibiotic prophylaxis [poster presentation]. Presented at the 2011 Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Dallas, TX, Society for Healthcare Epidemiology of America. April 2, 2011.
24. Duster M, Dietrich E, Warrack S, **Crnich CJ**. Co-resistance patterns in fluoroquinolone-resistant *E. coli* recovered from residents of nursing homes [poster presentation]. Presented at the 2011 Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Dallas, TX, Society for Healthcare Epidemiology of America. April 3, 2011.
25. **Crnich CJ**, Filas-Mortensen P, Klokow P, Duster M, Warrack S, Zimmerman DG. A comparison of MRSA transmission rates in VA and community long-term care facilities [poster presentation]. Presented at the 2011 Annual Scientific Meeting of the Society for Healthcare Epidemiology of America, Dallas, TX, Society for Healthcare Epidemiology of America. April 3, 2011.
26. Klein K, McKinley L, Matteson K, **Crnich CJ**. Preemptive isolation for methicillin-resistant *Staphylococcus aureus*: development of a predictive model in a VA hospital [oral

- presentation]. Presented at the 2011 Association for Professionals in Infection Control and Epidemiology 38th Annual Meeting, Baltimore, MD, June 2011.
27. Matteson K, Hynek R, Lata P, McKinley L, Michel L, Schreiner A, Stampfli C, Tainter S, **Crnich CJ**. Quality assurance data collection provides opportunity for organizational improvement following a rise in sternal surgical site infections (SSI) post-coronary artery bypass graft (CABG) surgery [poster presentation]. Presented at the 2011 Association for Professionals in Infection Control and Epidemiology 38th Annual Meeting, Baltimore, MD, June 2011.
 28. Matteson K, McKinley L, **Crnich CJ**. Implementation of automated empiric isolation and infection control consults to prevent infection transmission [poster presentation]. Presented at the 2011 Association for Professionals in Infection Control and Epidemiology 38th Annual Meeting, Baltimore, MD, June 2011.
 29. **Crnich CJ**, Dreis M, Hess T, Drinka P, Zimmerman DR. Patterns and discrepancies between different metrics of antibiotic use in nursing homes [oral presentation]. Presented at IDWeek 2012, a joint meeting of the Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medical Association, and Pediatric Infectious Disease Society, San Diego, CA, October 2012.
 30. Duke E, **Crnich CJ**. Screening for MRSA at multiple body sites in nursing home residents [poster presentation]. Presented at the American College of Physician Internal Medicine 2013 Meeting, San Francisco, CA, April 2013.
 31. Bayer L, Bahranian M, Adibhatla S, **Crnich CJ**. A descriptive investigation of inappropriate antibiotic use in skilled nursing facilities [poster presentation]. Presented at the 16th Annual University of Wisconsin Undergraduate Research Symposium, Madison, WI, May 2013.
 32. Warrack S, Duster M, Hoerres D, Kauffman AS, Box E, **Crnich CJ**. Clonal relationships of methicillin-resistant *Staphylococcus aureus* isolates recovered from long-term care facility residents [poster presentation]. Presented at the 113th General Meeting of the American Society for Microbiology, Denver CO, May 2013.
 33. Mak R, Mikelsons D, Stevens L, Berndt D, Zechel J, Betts T, Curran W, Rees S, Knudsen EA, Safdar N, **Crnich CJ**. The importance of socio-adaptive factors in technology implementation: lessons learned [poster presentation]. Presented at the 2013 Association for Professionals in Infection Control and Epidemiology 40th Annual Meeting, Ft. Lauderdale, FL, June 2013.
 34. Matteson K, Stampfli C, McKinley L, **Crnich CJ**. Evaluation of environmental decontamination in a VA ambulatory care setting [poster presentation]. Presented at the 2013 Association for Professionals in Infection Control and Epidemiology 40th Annual Meeting, Ft. Lauderdale, FL, June 2013.
 35. McKinley L, Matteson K, Duffy M, **Crnich CJ**. Deprivation is a risk factor for surgical site infection [oral presentation]. Presented at the 2013 Association for Professionals in Infection Control and Epidemiology 40th Annual Meeting, Ft. Lauderdale, FL, June 2013.
 36. **Crnich CJ**, Warrack S, Zehm A, Duster M, Drinka P, Zimmerman DR. A comparison of MRSA transmission rates in community skilled nursing facilities [poster presentation]. Presented at IDWeek 2013, a joint meeting of the Infectious Diseases Society of America, Society for

Healthcare Epidemiology of America, HIV Medical Association, and Pediatric Infectious Disease Society, San Francisco, CA, October 2013.

37. Westyn Branch-Elliman W, Snyderman D, Wilson B, Carter R, Heath B, Mody L, Moehring R, **Crnich C**, Schmader K, Jump RL [oral presentation]. Preliminary Outcomes from an Educational Intervention to Promote Antimicrobial Stewardship and Improve the Care of Older Adults with Infections. Presented at the American Geriatrics Society 2015 Annual Scientific Meeting, National Harbor, MD, May 2015.
38. Mody L, Greene T, Krein S, Meddings J, Trautner B, Wald H, Stone N, **Crnich C**, Banaszak-Holl J, McNamara S, Edson B, Saint S. Influence of ownership status on the infection prevention program disparities between for-profit and not-for-profit nursing homes [oral presentation]. Presented at the American Geriatrics Society 2015 Annual Scientific Meeting, National Harbor, MD, May 2015.
39. **Crnich C**, Cebula J, Endres T, Bucy J, Matteson K, McKinley L. Environmental legionellosis: a consequence of competing organizational programs [poster presentation]? Presented at the Society for Healthcare Epidemiology of America Spring 2015 Conference, Orlando, FL, May 2015.
40. **Crnich C**, Bailey E, Mak R, Hess T, Safdar N, Stevens L, Berndt D, Huser L, Arsenault Knudsen E, Curran W, Betts T, Mikelsons D, Soetenga D. Reducing central line-associated bloodstream infections through a socioadaptive intervention focused on maintenance practices. Presented at the Society for Healthcare Epidemiology of America Spring 2015 Conference, Orlando, FL, May 2015.
41. **Crnich C**, Miller J, Bahrainian M, Adibhatla S. Comparison of explicit criteria for determining appropriateness of antibiotic prescribing in nursing homes. Presented at the Society for Healthcare Epidemiology of America Spring 2015 Conference, Orlando, FL, May 2015.

Invited Research Presentations

University of Wisconsin

- | | |
|------|---|
| 2013 | <i>Understanding and Improving Antibiotic Use in Nursing Homes</i>
Meeting: Center for Aging Research and Education Conference
Location: Wisconsin Institute for Medical Research, Madison, WI |
| 2013 | <i>Patterns and Determinants of Methicillin-Resistant Staphylococcus Aureus (MRSA) in Nursing Homes.</i>
Meeting: Access, Quality, and Outcome Research Network Weekly Conference
Location: University Bay Office Building, University of Wisconsin, Madison, WI |
| 2012 | <i>Reducing Inappropriate Antibiotic Use in Skilled Nursing Facilities (SNFs)</i>
Meeting: UW Department of Medicine Health Services Research Seminar
Location: Medical Foundation Professional Building, Madison, WI |
| 2011 | <i>Determinants of Antibiotic Use in Nursing Homes: Opportunities for Quality Improvement</i>
Meeting: Access, Quality, and Outcome Research Network Weekly Conference
Location: University Bay Office Building, University of Wisconsin, Madison, WI |

- 2011 ***Influence of Telephone Communication on Antibiotic Prescribing in Nursing Homes***
Meeting: The 2011 Wisconsin Health Improvement and Research Partnership Forum
Location: Fluno Center, Madison, WI
- 2011 ***Comparing MRSA Transmission Rates in VA and Community Nursing Homes***
Meeting: University of Wisconsin Department of Medicine 3rd Annual Research Day
Location: University of Wisconsin, Madison, WI
- 2010 ***Antibiotic Resistance in Nursing Homes: Resident & Health System Outcomes***
Meeting: Access, Quality, and Outcome Research Network Weekly Conference
Location: University Bay Office Building, University of Wisconsin, Madison, WI
- 2010 ***Methicillin-Resistant Staphylococcus aureus (MRSA): What is the Role of Active Surveillance***
Meeting: UW Infectious Disease Interest Group
Location: Microbial Sciences Building, Madison, WI
- 2008 ***The Epidemiology of Antibiotic Resistance in Nursing Homes (EARNH) Study: Preliminary Findings***
Meeting: Access, Quality, and Outcome Research Network Weekly Conference
Location: WARF Building, University of Wisconsin, Madison, WI
- 2007 ***Analyzing Clustered Data in Epidemiologic Studies: Antibiotic Resistance in Nursing Homes***
Meeting: Institute for Clinical and Translational Research Scholars Meeting
Location: Health Sciences Learning Center, University of Wisconsin, Madison, WI
- 2007 ***Antibiotic Resistance in Nursing Homes: An Agenda for Research***
Meeting: Access, Quality, and Outcome Research Network Weekly Conference
Location: WARF Building, University of Wisconsin, Madison, WI
- 2006 ***Modeling Antibiotic Resistance in Healthcare Facilities***
Meeting: Department of Population Health Sciences Research Seminar
Location: WARF Building, Madison, WI
- 2005 ***Antimicrobial Resistance in Long-Term Care Facilities: A Women's Health Issue***
Meeting: UW CWHR Women's Health Research Leadership Conference
Location: The Fluno Center, Madison, WI

Regional

- 2008 ***Transmission of Antibiotic Resistant Bacteria in Nursing Homes***
Meeting: Medical College of Wisconsin, Section of Geriatrics Research Seminar
Location: Clement J. Zablocki Veterans Administration Hospital, Milwaukee, WI
- 2005 ***Antimicrobial Resistance in Long-Term Care Facilities***

Meeting: Geriatrics Research Conference, Medical College of Wisconsin
Location: Milwaukee Veterans Association Hospital, Milwaukee, WI

National/International

- 2014 ***Antibiotic Stewardship in Long-Term Care Settings***
Meeting: IDWeek 2014, a combined scientific meeting of the Infectious Disease Society of America, Society for Healthcare Epidemiology of America, the HIV Medical Association, and the Pediatric Infectious Disease Society
Location: Philadelphia Convention Center, Philadelphia, PA
- 2013 ***Should Contact Precautions and Active Surveillance be Adopted in Nursing Homes?***
Meeting: IDWeek 2013, a combined scientific meeting of the Infectious Disease Society of America, Society for Healthcare Epidemiology of America, the HIV Medical Association, and the Pediatric Infectious Disease Society
Location: Moscone Center, San Francisco, CA
- 2012 ***The Case for Antibiotic Stewardship in Nursing Homes***
Meeting: Addressing the Importance of Antimicrobial Stewardship in Nursing Homes Consensus Conference
Location: Centers for Disease Control and Prevention, Atlanta, GA
- 2012 ***Antibiotic Stewardship Considerations in Nursing Homes and Long-Term Acute Care Hospitals***
Meeting: IDWeek 2012, a combined scientific meeting of the Infectious Disease Society of America, Society for Healthcare Epidemiology of America, the HIV Medical Association, and the Pediatric Infectious Disease Society
Location: San Diego Convention Center, San Diego, CA
- 2012 ***Alcohols and Central Lines: A Marriage Made in Heaven or a Divorce Waiting to Happen?***
Meeting: IDWeek 2012, a combined scientific meeting of the Infectious Disease Society of America, Society for Healthcare Epidemiology of America, the HIV Medical Association, and the Pediatric Infectious Disease Society
Location: San Diego Convention Center, San Diego, CA
- 2012 ***Patterns and Discrepancies Between Different Metrics of Antibiotic Use in Nursing Homes***
Meeting: IDWeek 2012, a combined meeting of the Infectious Diseases Society of America, Society for Healthcare Epidemiology of America, HIV Medical Association, and Pediatric Infectious Disease Society
Location: San Diego Convention Center, San Diego, CA
- 2012 ***Balancing Infection Prevention and Control in a Resident-Centered Care Environment***
Meeting: Veterans Affairs, National Infectious Disease Service – One Health Conference
Location: Millennium Hotel Cincinnati, Cincinnati, OH
- 2011 ***MRSA Transmission in Nursing Homes: Mechanisms and Implications for***

(Small Groups Instructor; Three 3-hour Sessions; 20 2nd yr. Medical Students)

- 2005 – Present Medicine 914 - Therapeutics of Chronic Diseases
(Tuberculosis Module Instructor; One 1-hour Lecture; 35 4th yr. Medical Students)
- 2006 – 2011 Industrial and Systems Engineering 610 – Design and Evaluation Systems
(Antibiotic Resistance in Nursing Homes Module; One 1-hour Lecture; 20 Undergraduate Students)
- 2006 – 2008 Industrial and Systems Engineering 699 – Long Term Care Systems
(Infection Control In Nursing Homes; One 1-hour Lecture; 20 Undergraduate Students)
- 2006 – 2010 Medical Microbiology and Immunology 900 – MD/PhD Research Methods
(Observational Study Design and Interpretation; Two 1-hour Lectures; 12 Graduate Students)
- 2006 – Present Medical Microbiology and Immunology 554 – Infectious Diseases & Bioterrorism
(Healthcare Epidemiology Module; One 1-hour Lecture; 20 Undergraduate Students)
- 2006 – 2011 Population Health Sciences 717 - Principles of Population Medicine and Epidemiology
(Small Groups Instructor; Six 1.5-hour Sessions; 20 2nd yr. Medical Students)
- 2007 – Present Population Health Sciences 703 - Quality in Healthcare
(Course Co-Instructor; Four 2.5-hour Lectures; 30 Graduate Students)
- 2007 Population Health Sciences 904 – Infectious Disease Epidemiology
(Course Co-Instructor; Three 1-hour Lectures; 20 Graduate Students)
- 2009 – Present Population Health Sciences 801 – Epidemiology of Infectious Diseases
(Tuberculosis Module; One 1-hour Lecture; 30 Graduate Students)
- 2010 Microbiology 699 – Independent Research
(Undergraduate Researcher Mentor; ~4Hours/Week of One-to-One Mentoring to an Undergraduate Student for 1 Semester)
- 2013 – Present Infection & Immunity
(Tuberculosis Module Lecturer; One 1-hour Lecture; 180 1st yr. Medical Students)
- 2013 – Present Medicine 915 – Therapeutics of Acute Diseases
(Pneumonia Modules Instructor; Two 1-hour Lectures; 35 4th yr. Medical Students)

CME Presentations

Departmental

- 2011 ***Tracking Multi-Drug Resistant Organisms in Nursing Homes [CME]***
Meeting: Section of Geriatrics Grand Rounds
Location: Geriatric Research Education and Clinical Center, Middleton VA,
Madison, WI
- 2007 ***Antibiotic Resistance in Nursing Homes [CME]***
Meeting: Section of Geriatrics Grand Rounds
Location: Geriatric Research Education and Clinical Center, Middleton VA,
Madison, WI
- 2007 ***Latent Tuberculosis: An Update on Diagnosis [CME]***
Meeting: General Internal Medicine Grand Rounds
Location: Health Science Learning Center, University of Wisconsin, Madison,
WI
- 2004 ***Ventilator-Associated Pneumonia: Diagnostic Dilemmas [CME]***
Meeting: Critical Care Grand Rounds, University of Wisconsin
Location: University of Wisconsin Hospital, Madison, WI
- 2003 ***Hemodialysis Catheter-Related Bloodstream Infections [CME]***
Meeting: Nephrology Grand Rounds, University of Wisconsin
Location: University of Wisconsin Hospital, Madison, WI
- 2002 ***Infections in Trauma Patients: Treatment and Prevention [CME]***
Meeting: Trauma Grand Rounds, University of Wisconsin
Location: University of Wisconsin, Madison, WI

UWSMPH/UWHC/VAHospital

- 2015 ***Reducing Central Line-Associated Bloodstream Infections (CLABSIs) at
the University of Wisconsin Hospital and Clinics: An Ongoing
Socioadaptive Journey***
Meeting: University of Wisconsin Resident and Student Quality Improvement
Symposium
Location: University of Wisconsin School of Medicine and Public Health,
Madison, WI
- 2014 ***Influenza Update***
Meeting: Monthly Town Hall Meeting
Location: Wm. S. Middleton VA Hospital, Madison, WI
- 2014 ***Ebola Preparedness***
Meeting: Monthly Town Hall Meeting
Location: Wm. S. Middleton VA Hospital, Madison, WI
- 2009 ***Antibiotic Resistance: Are Nursing Homes the Forgotten Reservoir?
[CME]***
Meeting: Department of Medicine Grand Rounds
Location: University of Wisconsin School of Medicine and Public Health,
Madison, WI

2008 ***Ventilator-Associated Pneumonia: An Update [CME]***
Meeting: Neurological ICU Weekly Didactic Seminar
Location: University of Wisconsin Hospital and Clinics

State & Regional

2014 ***Antibiotic Decision-Making in Nursing Homes: Strategies for Improvement [CME]***
Meeting: 2014 Conference & Annual Meeting of the Wisconsin Association of Medical Directors
Location: Radisson Hotel, Madison, WI

2014 ***The Imperative for Better Antibiotic Stewardship in Community Settings [CME]***
Meeting: Tomah Memorial Hospital Medical Grand Rounds
Location: Tomah Memorial Hospital, Tomah, WI

2013 ***Emergence of Antibiotic Resistance in the Community: The Imperative for Better Antibiotic Stewardship [CME]***
Meeting: The 2013 Dennis G. Maki Infectious Disease Update
Location: The Wilderness Resort, Wisconsin Dells, WI

2013 ***Infectious Disease Update: A Focus on Respiratory and Urinary Tract Infections [CME]***
Meeting: 2013 Conference & Annual Meeting of the Wisconsin Association of Medical Directors
Location: Crowne Plaza Hotel, Madison, WI

2013 ***Update on Infectious Diseases in the Aged [CME]***
Meeting: The 2013 Wisconsin Board Review Course and Update in Geriatric Medicine
Location: Grand Geneva Resort and Spa, Lake Geneva, WI

2013 ***Infectious Disease Update [CME]***
Meeting: Medical Staff Case Conference
Location: Watertown Regional Medical Center, Watertown, WI

2013 ***Community-Acquired MRSA: An Update [CME]***
Meeting: Medical Grand Rounds
Location: Mercy Medical Center, Janesville, WI

2012 ***Infectious Disease Update: Balancing Treatment Needs with the Imperative to Improve Antibiotic Stewardship in Nursing Homes [CME]***
Meeting: Wisconsin Association of Medical Directors (WAMD) 2012 Conference
Location: Radisson Hotel, Madison, WI

2012 ***Prevention and Treatment of Common Infections in Long-Term Care Facilities [CME]***
Meeting: WHCA/WiCAL 61st Annual Fall Conference
Location: Holiday Inn Conference Center, Stevens Point, WI

- 2012 ***Dissemination and Implementation: Making Infection Prevention Everyone's Business [CME]***
Meeting: University of Wisconsin 2012 Infection Control Conference
Location: American Family Training Center, Madison, WI
- 2012 ***Beyond the Checklist: Taking Prevention of Central Line-Associated Bloodstream Infection to the Next Level [CME]***
Meeting: University of Wisconsin 2012 Infection Control Conference
Location: American Family Training Center, Madison, WI
- 2012 ***Improving the Use of Antibiotics in Long-Term Care Facilities [CME]***
Meeting: Medical Center Grand Rounds
Location: Reedsburg Medical Center, Reedsburg, WI
- 2011 ***Community-, Healthcare-, and Healthcare-Associated Pneumonia [CME]***
Meeting: 2011 Dennis G. Maki Infectious Disease Update Conference
Location: Wilderness Resort, Wisconsin Dells, WI
- 2011 ***Clostridium difficile infection: An Update [CME]***
Meeting: 2011 Dennis G. Maki Infectious Disease Update Conference
Location: Wilderness Resort, Wisconsin Dells, WI
- 2011 ***Aspects of Infectious Diseases in the Aged [CME]***
Meeting: The 2011 Wisconsin Board Review Course and Update
Location: Grand Geneva Resort and Spa, Lake Geneva, WI
- 2010 ***Improving Antibiotic Utilization in Nursing Homes [CME]***
Meeting: 10th Annual FOCUS Conference (WI DQA)
Location: Kalahari Resort, Wisconsin Dells, WI
- 2010 ***Supporting Positive Infection Prevention and Control Outcomes within a Person-Centered Environment of Culture Change [CME]***
Meeting: 2010 Wisconsin Association of Homes and Services for Aging (WAHSA) Fall Conference
Location: Hotel Sierra & KI Convention Center, Green Bay, WI
- 2010 ***Antibiotic Resistance: Are Nursing Homes the Forgotten Reservoir? [CME]***
Meeting: Updates in Medicine Conference
Location: Bridgewood Conference Center, Neenah, WI
- 2009 ***An Update on Latent Tuberculosis Infection [CME]***
Meeting: 2009 Dennis G. Maki Infectious Disease Update Conference
Location: Wilderness Resort, Wisconsin Dells, WI
- 2009 ***Evaluation of Fever and Infection in Older Adults [CME]***
Meeting: 2009 Dennis G. Maki Infectious Disease Update Conference
Location: Wilderness Resort, Wisconsin Dells, WI
- 2008 ***Antibiotic Resistance in the Nursing Home: Implications for the Delivery***

- of Care in Acute and Long-Term Care Settings [CME]***
Meeting: Department of Medicine Grand Rounds
Location: Aurora Hospital, Milwaukee, WI
- 2006 ***Emerging Infections in Nursing Homes [CME]***
Meeting: Wisconsin Association of Medical Directors Fall Conference
Location: Crowne Plaza Hotel, Madison, WI
- 2006 ***Infections in Nursing Homes: Pragmatic Approaches to Prevention and Management [CME]***
Meeting: Wisconsin Healthcare Association
Location: The Kalahari Resort, Wisconsin Dells, WI
- 2005 ***Infections in Nursing Homes: Pragmatic Approaches to Prevention and Treatment [CME]***
Meeting: 2005 Update in Infectious Diseases, Continuing Medical Education, University of Wisconsin, Department of Medicine, Section of Infectious Diseases
Location: Monona Terrace Convention Center, Madison, WI
- 2005 ***Treatment and Prevention of Infections in Long-Term Care Facility Residents [CME]***
Meeting: Geriatrics 2005 – The Frozen Tundra Conference, Continuing Medical Education, University of Wisconsin, Department of Medicine, Section of Geriatrics and Gerontology
Location: Lambeau Field Atrium, Green Bay, WI
- 2004 ***Prevention of Ventilator-Associated Pneumonia [CME]***
Meeting: Infection Control 2004 – Advances in the Control of Nosocomial Infections, Continuing Medical Education, University of Wisconsin, Department of Medicine and Infectious Diseases
Location: Monona Terrace Convention Center, Madison, WI
- 2004 ***Control of Infection in the Nursing Home [CME]***
Meeting: Infection Control 2004 – Advances in the Control of Nosocomial Infections, Continuing Medical Education, University of Wisconsin, Department of Medicine and Infectious Diseases
Location: Monona Terrace Convention Center, Madison, WI
- 2004 ***Tuberculosis: An Emphasis on Diagnosis and Prevention [CME]***
Meeting: 2004 Update in Infectious Diseases, Continuing Medical Education, University of Wisconsin, Department of Medicine, Section of Infectious Diseases
Location: Marriot West, Middleton, WI
- 2004 ***Ventilator-Associated Pneumonia: What's New? [CME]***
Meeting: 2004 Update in Infectious Diseases, Continuing Medical Education, University of Wisconsin, Department of Medicine, Section of Infectious Diseases
Location: Marriot West, Middleton, WI

2003 ***The Hospital Environment's Role in Nosocomial Infection [CME]***
Meeting: 2003 Advances in the Prevention of Nosocomial Infections
Location: Marriot West, Middleton, WI

Regional educational presentations that were not CME accredited but provided continuing educational credits for non-physician healthcare professionals (e.g., CEUs)

2015 ***What is Nursing's Role in Antibiotic Stewardship in Nursing Homes?***
Meeting: Wisconsin Association for Professionals in Infection Control and Epidemiology (APIC) Annual Conference
Location: Country Springs Conference Center, Pewaukee, WI

2014 ***Treating Urinary Tract Infection in Nursing Homes: A Toolkit for Improvement***
Meeting: Wisconsin FOCUS 2014 Conference
Location: Kalahari Resort, Wisconsin Dells, WI

2014 ***Strategies to Improve Treatment of Urinary Tract Infection in Nursing Homes.***
Meeting: Optum Nurse Practitioner Semi-Annual Meeting
Location: CarePlus Administrative Offices, Wauwatosa, WI

2014 ***Combating the Rising Tide of Multi-Drug-Resistant Organisms (MDROs) in Long-Term Care Facilities (LTCFs)***
Meeting: The Southeastern Wisconsin Healthcare-Associated Infections in Long-Term Care Summit.
Location: Italian Conference Center, Milwaukee, WI

2014 ***Combination Therapy in the Era of Antibiotic Resistance: Intelligent Design or S.W.A.G.?***
Meeting: UW School of Pharmacy Spring Meeting
Location: Marriott Conference Center, Madison, WI

2013 ***Management and Prevention of Outbreaks in Nursing Homes***
Meeting: Wisconsin Healthcare-Associated Infections in Long-Term Care Conference
Location: Chula Vista Resort, Wisconsin Dells, WI

2013 ***The Case for Antibiotic Stewardship in Nursing Homes***
Meeting: Wisconsin Healthcare-Associated Infections in Long-Term Care Conference
Location: Chula Vista Resort, Wisconsin Dells, WI

2013 ***Tracking and Using Antibiotic Utilization Data in Nursing Homes***
Meeting: Wisconsin Healthcare-Associated Infections in Long-Term Care Conference
Location: Chula Vista Resort, Wisconsin Dells, WI

2013 ***The McGeer Definitions: Their Role in Surveillance and Clinical Care.***
Meeting: Southeast Wisconsin APIC Conference
Location: Aurora St. Lukes South Shore, Cudahy, WI

- 2013 ***Is Resistance Futile? The Emerging Crisis of Resistant Gram-Negative Bacteria and What Can be Done About It.***
Meeting: Badger APIC Conference
Location: Sauk Prairie Regional Hospital, Prairie du Sac, WI
- 2012 ***Determinants of Antibiotic Use in Skilled Nursing Facilities: Opportunities for Quality Improvement***
Meeting: Region 1 Directors of Nursing Conference
Location: Agrace Hospice, Fitchburg, WI
- 2011 ***Recognition and Management of Outbreaks in Nursing Homes***
Meeting: Nursing Staff Grand Rounds
Location: Hillside Manor, Beaver Dam, WI
- 2011 ***Preventing Central Line-Associated Bloodstream Infections.***
Meeting: Society for Healthcare Epidemiology of America (SHEA) HAI Regional Training Course
Location: Four Points by Sheraton, Chicago, IL
- 2011 ***Infection Prevention in Non-Acute Care Settings.***
Meeting: Society for Healthcare Epidemiology of America (SHEA) HAI Regional Training Course
Location: Four Points by Sheraton, Chicago, IL
- 2009 ***Antibiotic Resistance in Nursing Homes***
Meeting: Badger APIC Conference
Location: UWHC East Clinic, Madison, WI
- 2008 ***Antibiotic Resistance in Nursing Homes***
Meeting: Care Wisconsin Monthly Meeting
Location: Warner Park Recreation Center, Madison, WI
- 2008 ***Antibiotic Resistance in Nursing Homes***
Meeting: Region 1 Director of Nursing Meeting
Location: Mount Horeb, WI
- 2007 ***Darwin's Eden? The Crisis in Antibiotic Resistance***
Meeting: Case Management Society of America – Madison Area Chapter
Location: Comfort Inn of Madison, Madison, WI
- 2006 ***Ventilator-Associated Pneumonia***
Meeting: Madison Clinical Conference
Location: Marriot West, Middleton, WI
- 2004 ***Bloodstream Infections with Long-Term IVDs***
Meeting: Chartwell of Wisconsin Quarterly Meeting
Location: Chartwell, Madison WI
- 2003 ***Ventilator-Associated Pneumonia: Diagnosis and Prevention***
Meeting: 2003 Convention of the Wisconsin Society for Respiratory Care

Location: Olympia Resort, Oconomowoc, WI

National/International

- 2015 ***Fortune Favors the Prepared Facility: Management and Prevention of Outbreaks in Nursing Home Settings.***
Meeting: Iowa Statewide Infection Prevention Conference
Location: Marriott Hotel, Des Moines, IA
- 2014 ***Management and Prevention of Outbreaks in Nursing Homes [CME]***
Meeting: The Society for Healthcare Epidemiology of America Spring 2014 Meeting
Location: Hyatt Regency, Denver, CO
- 2012 ***Infection Control in VA Community Living Centers [CME]***
Meeting: Infection Prevention & Control in the 21st Century (VA National Infect Disease Service)
Location: Sheraton Downtown Dallas, Dallas, TX
- 2009 ***Infections in Nursing Homes: Pragmatic Approaches to Prevention and Management [CME]***
Meeting: 23rd Annual Spanning the Continuum of Care Conference
Location: Monroe Community Hospital, Rochester NY
- 2008 ***Augmenting Clinical Guidelines with Geriatric Content: Bacterial Meningitis***
Meeting: Association of Subspecialty Professors – Integrating Geriatrics into the Subspecialties of Internal Medicine, Geriatrics Interest Group Leaders Retreat
Location: Ritz Carlton, New Orleans, LA
- National educational presentations that were not CME accredited but provided continuing educational credits for non-physician healthcare professionals (e.g., CEUs)*
- 2014 ***Strategies for Prevention of Healthcare-Associated Infections (HAIs).***
Meeting: Infusion Nursing Society Fall National Academy of Infusion Therapy Meeting
Location: Hyatt Regency, Atlanta, GA
- 2010 ***Supporting Positive Infection Prevention and Control Outcomes within a Person-Centered Environment of Culture Change***
Meeting: Pioneer Network's 10th National Conference
Location: Downtown Marriott, Indianapolis, IN
- 2005 ***Antibiotic Resistance: Descriptive Epidemiology, Determinants, and Prevention***
Meeting: Chartwell Clinical Roundtable 2005
Location: Warwick Denver Hotel, Denver, CO

Clinical Skills Teaching (Didactic)

- 2007 – Present ***Latent Tuberculosis*** (Director: Bennett Vogelmann)

Description: A didactic 1-hour lecture provided to internal medicine residents ($n \sim 40$) as part of their core curriculum series. Content delivered once every other year.

- 2009 – Present ***Latent Tuberculosis*** (Director: David Andes)
Description: A didactic 1-hour lecture provided to infectious disease fellows, rotating residents, and 4th yr. medical students ($n \sim 8$) as part of their core curriculum series. Content delivered once every other year.
- 2009 – Present ***Quality Improvement*** (Director: David Andes)
Description: A didactic 1-hour lecture provided to infectious disease fellows, rotating residents, and 4th yr. medical students ($n \sim 8$) as part of their core curriculum series. Content delivered once every other year.
- 2010 – Present ***Ventilator-Associate Pneumonia*** (Director: Bennett Vogelmann)
Description: A didactic 1-hour lecture provided to internal medicine residents ($n \sim 40$) as part of their core curriculum series. Content delivered once every other year.
- 2010 – Present ***Ventilator- and Healthcare-Associated Pneumonia*** (Director: David Andes)
Description: A didactic 1-hour lecture provided to infectious disease fellows, rotating residents, and 4th yr. medical students ($n \sim 8$) as part of their core curriculum series. Content delivered once every other year.
- 2013 – Present ***Pneumonia*** (Director: Kevin McKown)
Description: This 1-hour case-based discussion is provided to medical students ($n \sim 16$) starting their PGY3 internal medicine rotation. Content delivered approximately 4x/year.
- 2013 – Present ***Principles of Antibiotic Therapy in the Elderly*** (Director: Steve Barczi)
Description: A series of lectures delivered to fellows and clinicians in the Division of Geriatrics that focus on antibiotic management of common infectious disease problems encountered in older adults. Content is delivered in four 1-hour lectures annually.

Clinical Skills Teaching (Bedside)

- 2005 – Present ***Infectious Disease Teaching Consult Service***
Description: Provide bedside teaching to medical students, residents and fellows rotating on the UW inpatient infectious disease service
Time: 6-8 weeks/year
- 2006, 2008, 2009 ***UW Infectious Disease Clinic Attending (Medical Student Preceptor)***
Description: Provided bedside teaching to 4th year medical students in the UW Outpatient Infectious Disease Clinic
Time: ½ day/week
- 2007 – Present ***VA Infectious Disease Clinic***
Description: Provide bedside teaching to physician assistant students, podiatry residents, internal medicine residents, and infectious disease fellows in the Wm. S. Middleton VA ID Clinic

Time: ½ day/week

- 2010 – Present ***Infectious Disease Clinic (Fellow Preceptor)***
Description: Provide direct oversight of infectious disease fellows in a fellow-run clinic at the UWHC
Time: 6-8 ½-day clinics/year
- 2012 – Present ***UW Infectious Disease Clinic Attending (Resident Preceptor)***
Description: Provide bedside teaching to internal medicine residents in the UW Outpatient Infectious Disease Clinic
Time: ½ day/week

Research Skills Teaching (Didactic)

- 2006 – 2010 ***Experimental Design and Clinical Trials*** (Director: Robert Striker)
Description: An introduction to interpretation of published research evidence provided to incoming MD/PhD Students ($n \sim 12$) at the University of Wisconsin School of Medicine and Public Health. Content delivered during a 1-hour session annually.
- 2008 & 2009 ***Overview of a Clinical Research Career***
Description: A 1-hour session presented at the University of Wisconsin Institute for Clinical and Translational Research Short Course in Clinical Research Seminar (June of 2008 and 2009) that focused on career planning for individuals considering a career in academic medicine.
- 2008 – Present ***Introduction to Clinical Research*** (Co-Directed with Dr. Nasia Safdar)
Description: An annual half-day seminar that introduces interns ($n \sim 20$) in the Department of Medicine to clinical research as they prepare for their PGY2 elective rotations. Content delivered during a 4-hours session annually.
- 2009 – Present ***Observational Studies: Uses and Interpretation*** (Director: David Andes)
Description: A two-hour didactic lecture series provided to infectious disease fellows as part of their core curriculum series. Content delivered every other year.
- 2010 ***Resident Journal Club*** (Director: David Feldstein)
Description: Facilitated review of several peer-reviewed manuscripts with a focus on the interpretation of surrogate and combined outcomes. Content delivered to Internal Medicine residents ($n \sim 40$) during a 1-hour session.

Mentoring

Undergraduate Students

- 2014 ***Priya Varghese***
Peter Van Beek
(*Undergraduate Research Scholars Program*)
Director: Amy Sloane
Description: Provided mentoring and oversight of two undergraduate students whose research focused on the study of medical team awareness and decision-

making around central venous catheter use among hospitalized patients.

Talia Sirkis (*Nursing Honors Student; Nursing 681/682*)

Director: Rebecca Mueher

Description: Provided mentoring to a nursing student whose research focused on the frequency and determinants of delayed antibiotic prescribing in community nursing homes.

Scott Tortomasi (*Nursing Honors Student; Nursing 681/682*)

Director: Rebecca Mueher

Description: Provided mentoring to a nursing student whose research focused on the frequency and determinants of discordant antibiotic prescribing (mismatch between antibiotic prescribed and susceptibility of bacteria recovered from clinical cultures) in community nursing homes.

2013

Caitlin Timmers (*Rural and Urban Scholars in Community Health [RUSCH] Program Scholar*)

Director: Lynne Cleeland

Description: provided research mentoring to an undergraduate student who will be applying for entry to medical school in 2014. Caitlin's project is focused on enumerating the frequency of inappropriate antibiotic use in community nursing homes and her work will be presented at the RUSCH Scholars research seminar at the end the summer.

2012 – 2013

Laura Bayer (*Nursing Honors Student; Nursing 681/682*)

Director: Rebecca Muehrer

Description: provided research mentoring to a nursing student (Laura Bayer) whose research is focused on appropriateness of antibiotic prescribing in nursing homes. Laura's research was presented at the Spring 2013 undergraduate student research symposium.

2009 & 2010

Anna Sarah Kauffman

Derek Hoerres

Elle Dietrich

(*Biology 152 – Independent Research*)

Director: Brian Parks

Description: provided direct oversight of three undergraduate students who worked in my research laboratory. All three students presented their work at the annual undergraduate research conference and Derek's work will be included in a forthcoming manuscript.

2008 - 2009

Susan Nithya

Rachel Moser

Emily Andrews

Allie Finney

(*Biomedical Engineering 400/402*)

Director; Bill Murphy)

Description: provided direct oversight and advising to four undergraduate students whose project was focused on the development and assessment of an instrument to measure the quality of hand hygiene using waterless hand hygiene products. This work was presented at the BME research symposium in

2008 and 2009.

Graduate Students

- 2014 – Present **Miranda McElligott** (*Population Health Sciences, UWSMPH*)
Description: Miranda is a PhD Candidate in the Population Health Sciences Program in the UW School of Medicine and Public Health. Her research is focused on exploring differences and determinants of inappropriate antibiotic prescribing among primary care and cross-covering nursing home providers. This work will help us understand how antibiotic stewardship interventions can be better tailored to both types of prescribing situations.
- 2014 – Present **Everlyne Nkadori** (*Population Health Sciences, UWSMPH*)
Description: Everlyne is a MPH Candidate in the Population Health Sciences Program in the UW School of Medicine and Public Health. Her project is focused on an evaluation of health outcomes and healthcare utilization among patients receiving care through the Outpatient Parenteral Antibiotic Therapy (OPAT) program at the Wm. S. Middleton VA Hospital.
- 2013 – 2014 **Rania El-Desoki** (*Industrial & Systems Engineering, UW School of Engineering*)
Description: Rania is a PhD Candidate in the School of Engineering. Her dissertation research will focus identifying correlates between measures of quality and resident satisfaction in assisted living facilities using data collected from a statewide quality improvement collaborative.
- 2012 – Present **Nataliya Batina** (*Population Health Sciences, UWSMPH / Industrial & Systems Engineering, UW School of Engineering*)
Description: Nataliya is a PhD Candidate in the School of Engineering. Her work is focused on development and testing of mathematical models to better understand the transmission dynamics of methicillin-resistant *Staphylococcus aureus* (MRSA) in long-term care settings. I am a co-mentor, member of her dissertation committee, have provided her with original data critical for her work and provide regular oversight of her analyses of these data.
- 2011 – 2013 **Meghann Brennan** (*Population Health Sciences, UWSMPH*)
Description: Meghann is physician and former infectious disease fellowship mentee who received a MPH degree. I was a co-mentor on her thesis research. Her thesis research focused on determinants of HIV screening behaviors among internal medicine physicians. Her work was presented at several national meetings including the Annual Meeting for the Society of General Internal Medicine and resulted in two manuscripts that have been accepted (*Wisconsin Medical Journal*) or submitted pending review (*Mayo Clinical Proceedings*) in two peer-reviewed journals.
- 2011 – 2013 **Charity Mulenga** (*Population Health Sciences, UWSMPH*)
Description: Charity is pursuing an MPH in the UWSMPH. Her research is focused on understanding differences among foreign-born and U.S.-born patients who develop active tuberculosis. I was a co-mentor and member of her MPH Capstone Committee.

2010 – 2012

Katelyn Klein (*Population Health Sciences, UWSMPH*)

Description: Katelyn graduated with an MPH from the UWSMPH in 2012 during which time I served as a co-mentor and member of her capstone committee. Her thesis was focused on identification of risk factors for MRSA colonization among patients admitted for surgery at the VA hospital in order to determine with individuals required social distancing measures. Her work was presented at the 2011 Annual APIC conference where her work was selected for an oral presentation. This work has been submitted to the *American Journal of Infection Control* and is currently under revision.

2010

Ryan Joerres (*Population Health Sciences, UWSMPH*)

Description: Ryan is a graduate of the UW MPH/Global Health Certificate Program. I served as a co-mentor and member of his capstone committee. His work focused on geographic variations in diagnosis and antimicrobial treatment of upper respiratory tract infections.

Medical Students

2014

Erin Bailey (*UWSMPH, Shapiro Award*)

Description: Erin was a medical student who worked as a Shapiro student in my laboratory. Her project focused on evaluating the impact of the Central Line Bloodstream Infection Prevention Program at the University of Wisconsin Hospital. Her work showed that a socioadaptive intervention focused on improving unit culture around central line safety and maintenance was strongly associated with reductions in infections observed over the study period. This work will be presented at the Society for Healthcare Epidemiology of America 2015 Spring Meeting and a manuscript based on this work is in preparation.

Jill Miller (*UWSMPH, Shapiro Award*)

Description: Jill was a medical student who worked as a Shapiro student in my laboratory. Her project focused on comparing two sets of explicit criteria used to determine appropriateness of antibiotic prescribing in nursing homes (Loeb and McGeer). Her work showed that overall frequency of appropriate antibiotic prescribing in nursing homes was low and that there was poor correlation between the two sets of criteria used. This work will be presented at the Society for Healthcare Epidemiology of America 2015 Spring Meeting and a manuscript based on this work is in preparation.

2013

Peter Devries (*UWSMPH*)

Description: Peter completed his undergraduate degree at the University of Minnesota and worked in my laboratory over the summer prior to entering his first year of medical school at the University of Wisconsin. Under my supervision, Peter has been genotyping a collection of fluoroquinolone-resistant *E. coli* recovered from residents of community nursing homes in an effort to better understand the transmission dynamics in these facilities.

2010 - 2012

Michael Dreis (*UWSMPH, Shapiro Award*)

Description: Michael was a medical student who worked as a Shapiro student in my laboratory. Under my supervision, Michael developed measures and compared variation in antibiotic use across several Wisconsin nursing homes. This work was presented in oral form at IDWeek 2012, a combined scientific

meeting of the Infectious Disease Society of America, Society of Healthcare Epidemiology of America, HIV Medical Association and the Pediatric Infectious Disease Society. This work will be included as a part of a forthcoming peer-reviewed manuscript that will be submitted to the journal, *Infection Control and Hospital Epidemiology*.

Residents

- 2013 – 2014 **Christopher Saddler** (*Internal Medicine Resident*)
Description: Christopher is working in my laboratory as part of his research elective in the UW internal medicine residency program. His work is focused on understanding risk factors for acquisition of methicillin-resistant *Staphylococcus aureus* (MRSA) colonization among residents in Wisconsin nursing homes.
- 2012 – 2013 **April Zehm** (*Internal Medicine Resident*)
Description: April worked in my lab as part of her research elective months during her PGY2 year in the UW internal medicine residency program. April's project was focused on analysis of existing data that our group had collected in regional nursing homes to determine the frequency and patterns of methicillin-resistant *Staphylococcus aureus* (MRSA) transmission in these facilities. Her work will be submitted as an abstract to IDWeek 2013, a combined scientific meeting of the Infectious Disease Society of America, Society of Healthcare Epidemiology of America, HIV Medical Association and the Pediatric Infectious Disease Society. This work will also be included in a forthcoming peer-reviewed manuscript.
- 2011 – 2013 **Elizabeth Duke** (*Internal Medicine Resident*)
Description: Elizabeth worked in my lab as part of her elective months during her PGY2 and PGY3 years in the UW internal medicine residency program. Elizabeth's project was focused on describing patterns of MRSA colonization among nursing home residents and whether certain patterns were predictive of long-term carriage, a risk factor that is strongly associated with risk of developing invasive infection. Her work was presented in abstract form at the State American College of Physicians (ACP) meeting where she won an award for her presentation. She will presenting these data at the national ACP meeting in the Spring of 2013 and is currently working on a manuscript that will be published in a peer-reviewed journal.

Fellows

- 2014 – Present **Christopher Saddler** (*Infectious Disease Fellow*)
Description: Christopher is a 1st year fellow in infectious diseases at the UW. I am a co-mentor on a project focused on developing decision support tools to enhance antibiotic prescribing at the Wm. S. Middleton VA Hospital.
- 2012 – 2014 **Kazuaki Jindai** (*Infectious Disease Fellow*)
Description: Kazu was a fellow in infectious diseases at the UW. I was a co-mentor on a project focused on developing decision support tools to enhance antibiotic prescribing at the Wm. S. Middleton VA Hospital.
- 2012 – 2014 **Mark Biagtan** (*Allergy-Immunology Fellow*)

Description: Mark is a 1st year fellow in the Allergy-Immunology program at UW. I am co-mentor on a project of his focused on understanding the impact of penicillin allergy on patient outcomes.

2010 – 2012

Meghann Brennan (Infectious Disease Fellow)

Description: Her work as a fellow focused on understanding prescribing patterns for hospital-acquired pneumonia and HIV screening practices among internal medicine residents. I was the PI on the HAP project and a co-advisor on the HIV screening project. She completed her infectious disease fellowship at UW in 2012 after which she took a clinical instructor position at the UW SMPH in the Division of Infectious Diseases. I have continued to provide mentoring during her transition to faculty.

2008 – 2010

Prakash Balasubramanian (Infectious Disease Fellow)

Description: Prakash was a clinical and research fellow in ID. I was his primary mentor. His work focused on prevention of catheter-associated urinary tract infections in hospitalized patients. He is currently in clinical practice as a hospitalist and ID specialist at the Wm. S. Middleton VA Hospital.

2007 – 2009

Debra Thompson (Infectious Disease Fellow)

Description: Debra was a clinical and research ID fellow. She participated in a project to improve the management of patients undergoing mechanical ventilation. Her work was presented at the Annual Meeting of the Society of Healthcare Epidemiology of America in 2009. I was the PI and advisor for this work. She is currently in clinical practice in ID in Milwaukee.

2006 – 2008

Sharven Kethireddy (Infectious Disease Fellow)

Description: Shraven was a clinical and research fellow in ID under the primary mentorship of Dr. Dennis Maki. Shraven participated in several clinical research projects with our group and I served as a co-mentor to him during this time. Shraven pursued additional fellowship training in critical care after completing his ID fellowship and is currently a faculty member of the Geisinger Health System in Pennsylvania.

2005 – 2008

Victor Rosenthal (Infectious Disease Fellow)

Description: Victor was a visiting research fellow in ID under the primary mentorship of Dennis Maki. We collaborated on the analysis and presentation of data he collected in several developing countries focused on a variety of infection control practices. These data were presented at several national meetings and eventually published in several peer-reviewed journals (see above). He founded the International Consortium of Infection Control and has become one of the leading international experts on infection control in developing countries.

2004 – 2005

Piotr Chlebicki (Infectious Disease Fellow)

Description: Piotr was a visiting research fellow in ID under the primary mentorship of Dennis Maki. He undertook a meta-analysis of pre-operative chlorhexidine for prevention of surgical site infections on which I was an advisor and co-mentor. Piotr is now an academic ID physician in Singapore.

University Service Activities

Administrative Appointments

- 2010 – Present Chair, Central Line-Associated Bloodstream Infection (CLABSI) Prevention Performance Improvement Program, UWHC
2009 – Present Hospital Epidemiologist, Wm. S. Middleton VA Hospital
2009 – Present Assistant Director of Infection Control, UWHC (Director: Nasia Safdar)

Major Committee/Clinical Service Assignments

University of Wisconsin

- 2013 – Present Faculty Senate [Senator]

UWSMPH

- 2007 Interview Committee for the Assistant Dean for Faculty Development and Affairs search [Ad hoc Member]
2014 – Present Technical Standards and Accommodations Committee [Member]

Department of Medicine

- 2007 – Present Fellow Education Committee, Section of Infectious Diseases [Member]
2007 – 2009 Research Day Planning Committee [Member]

UW Hospital and Clinics

- 2000 – 2001 Resident Fellows Committee [Member]
2000 – 2002 Medical Records Committee [Member]
2009 – Present Infection Control Committee [Member]
2010 – 2012 Medical Executive Committee [Member]
2011 – Present Safety, Satisfaction and Performance Improvement Committee [Member]
2014 – Present Research Day Planning Committee [Member]

Wm. S. Middleton VA Hospital

- 2009 – Present Infection Control Committee [Member, Chair]
2010 – 2012 Personal Protective Equipment (PPE) Performance Improvement Sub-Committee [Physician Lead]
2011 – Present Antibiotic Stewardship Sub-Committee [Physician Lead]
2011 – Present Surgical Site Infection Prevention Sub-Committee [Physician Lead]
2011 – Present VA Community Living Center One-Health Implementation Initiative [Physician Lead]
2012 – Present Hand Hygiene Sub-Committee [Physician Lead]

Select Care Specialty Hospital

- 2007 – 2010 Medical Executive Committee [Member]
2007 – 2010 Infection Control Committee [Member, Chair]

Thesis/Dissertation Committees

Rania El Desoki, PhD Candidate, College of Engineering
Nataliya Batina, PhD Candidate, College of Engineering

Intra-Mural Grant Review Activities

2008 – 2010 New Investigator Grant Review Committee, UW ICTR
2011 – 2012 Reviewer, Community Academic Partnership (CAP) Type 2 Research Grant Program, UW ICTR

Professional Service Activities

Organizational Involvement (Regional)

2007 – Present **Long-Term Care Institute** [Consultant]

2012 – Present **Wisconsin Department of Quality Assurance**

- (2012 – Present) Healthcare-Associated Infections in Long-Term Care Collaborative [Member]
- (2013 – Present) Wisconsin Healthcare-Associated Infections in Long-Term Care Conference Planning Committee [Member]

Organizational Involvement (National)

2002 – Present **Society for Healthcare Epidemiology of America (SHEA)**

- (2004) SHEA Annual Meeting, Prevention of Intravascular Device-Related Bloodstream Infections Session [Moderator]
- (2007 – Present) Long-Term Care Interest Group [Member]
- (2009 – 2011) Surveillance Definitions for Infection in Nursing Homes Taskforce [Member]
- (2010 – Present) Research Network [Member]
- (2011 – Present) Education Committee [Member]
- (2011) Lecturer in SHEA HAI Regional Training Program
- (2012 – Present) Nursing Home Antibiotic Stewardship Toolkit Development Taskforce, a Joint Activity of the SHEA Long-Term Care Interest Group and the American Medical Directors Association (AMDA) [Chair]
- (2012) IDWeek 2012, Antimicrobial Stewardship and Infection Control Roles in Transitions of Care Session [Moderator]
- (2013) IDWeek 2013, Scientific Abstract Submission Review Group [Member]
- (2013) IDWeek 2013, Should Hospital HAI Prevention Policies Translate to Nursing Homes Session [Moderator]
- Primer on Healthcare Epidemiology, Infection Control & Antibiotic Stewardship [Editorial Board Member]
- (2015 – Present) Long-Term Care Interest Group [Vice-Chair]

2002 – Present **Infectious Disease Society of America (IDSA)**

- (2006 – Present) Infections in Older Adults Special Interest Group
- (2009) 47th IDSA Meeting, Meet-the-Professor Session [Moderator]
- (2012) IDWeek 2012, Antimicrobial Stewardship and Infection Control Roles in Transitions of Care Session [Moderator]
- (2013) IDWeek 2013, Scientific Abstract Submission Review Group [Member]
- (2013) IDWeek 2013, Should Hospital HAI Prevention Policies Translate to Nursing Homes Session [Moderator]

- 2006 – 2010 **Cochrane Anesthesia Review Group** [Member]
- 2009 & 2012 **Centers of Disease Control and Prevention (CDC)**
- (August 20 & 21, 2009) Implementing Surveillance of Healthcare-Associated Infections in Long-Term Care Meeting [Consultant]
 - (November 15, 2012) Addressing the Importance of Antibiotic Stewardship in Nursing Homes Meeting [Consultant, Invited Speaker]
- 2010 – 2012 **Agency for Healthcare Research and Quality**
- (2010 – 2012) Comparative Effectiveness Review of Screening for MRSA Carriage Technical Expert Panel (TEP) [Consultant through contract held by BlueCross BlueShield Association Evidence-Based Practice Center]
 - (2014) Technical Expert Panel (TEP) for the National Implementation of Comprehensive Unit-Based Safety Program to Reduce Catheter-Associated Urinary Tract Infections (CAUTI) in Long-Term Care Facilities (LTCFs) [Consultant]
- 2012 – 2013 **Advancing Excellence Campaign**
- (2012 – Present) Infection Prevention Goal Development Taskforce [Member]
- 2012 – Present **Veterans Administration Infectious Diseases Program Office**
- (2012) Community Living Center One Health Conference Planning Committee [Member]
 - (2012 – Present) Transmission Precautions in VA Community Living Centers Taskforce [Member]
 - (2014) – VA National Multidrug-Resistant Organism (MDRO)/Carbapenem Resistant Enterobacteriaceae (CRE) Conference [Participant]
 - (2014) MRSA Directive (VHA Directive 2010 – 006) Evaluation Committee [Member]

Extramural Grant Review Activities

- 2014 **The Israel National Institute for Health Policy & Health Services Research – Scientific Review Group**
- 2013 **University of Michigan Geriatrics Center – Pilot/Feasibility Grant Review Program**
- 2013 – Present **Veterans Administration, Health Services Research and Development, Career Development Award (CDA) Scientific Review Group**

Editorial Service Activities

Editorial Board:

- 2011 – Present Infection Control and Hospital Epidemiology (Member)
- 2015 – Present BMC Infectious Diseases (Associate Editor)

Ad Hoc Reviewer:

2004 – Present Clinical Infectious Diseases
2005 – Present Critical Care Medicine
2005 – Present Infection Control and Hospital Epidemiology
2005 Clinical Nephrology
2007 – Present Journal of the American Geriatrics Society
2008 – Present American Journal of Infection Control
2009 – Present Annals of Internal Medicine
2009 – 2011 Mayo Clinical Proceedings
2010 – Present Clinical Microbiology and Infection
2011 – Present PLoS One
2012 – Present BMC Infectious Diseases
2012 BMC Medical Informatics and Decision Making
2012 – Present Wisconsin Medical Journal
2013 – Present JAMA – Internal Medicine
2014 – Present Antimicrobial Agents and Chemotherapy
2014 – Present Journal of the American Medical Directors Association
2014 – Present JAMA
2015 – Present Journal of Clinical Microbiology