



Curriculum Vitae

Nasia Safdar, MD, PhD

Personal Data

Office Address

C3127
Madison Veterans Hospital
2500 Overlook terrace
Madison WI 53705

Office Telephone, Fax, E-mail

(608) 213-4075
Fax: (608) 263-4464
ns2@medicine.wisc.edu

Education

Undergraduate

1988-1990 F.S.c, Biology, Kinnaird College for Women, Lahore, Pakistan

Graduate/Medical School

1990-1995 M.D., Medicine, Aga Khan University Medical College, Karachi, Pakistan
1996-1997 Intern, Psychiatry, Sir Ganga Ram Hospital, Lahore, Pakistan

Residency

1997-2000 Resident, Medicine, University of Wisconsin, Madison, WI

Postgraduate/Fellowship

2000-2002 Clinical Fellow, Infectious Diseases, University of Wisconsin, Madison, WI
2002-2005 Women's Health Fellow, Women's Health and Infectious Diseases,
University of Wisconsin, Madison, WI

Other

2000-2002 M.S., Population Health Sciences, University of Wisconsin, Madison, WI
2009 Ph.D., Clinical Research, University of Wisconsin, Madison, WI

Certification and Licensure

Specialty/Subspecialty Certification

2000 Internal Medicine (valid through 12/31/2010)
2003 Infectious Diseases (valid through 12/21/2023)

Present Appointment/Position

2013-present Associate Chief of Staff for Research, Madison VA
2012-present Associate Professor (with tenure), DOM, UWSMPH
2008-2012 Assistant Professor, Division of Infectious Diseases, DOM, UWSMPH
2006-present Staff Physician, William S. Middleton Memorial VA Hospital
2009-present Medical Director Infection Control, UWHC
2009-present Affiliate Appointment, Division of Geriatrics, DOM, UWSMPH
2009-present Affiliate Appointment, Department of Population Health, UWSMPH

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Past Appointments/Positions

2007-2009	Director, Research Education for the Women's Health Fellowship, University of Wisconsin, Madison, WI
2006-2008	Clinical Assistant Professor, Division of Infectious Diseases, Department of Medicine, UWSMPH
2004-2006	Clinical Instructor, Division of Infectious Diseases, Department of Medicine, UWSMPH

Professional Society Memberships

2003-present	Society for Healthcare Epidemiology of America
2004-present	American Society for Transplantation
2009-present	Association for Professionals in Infection Control
2009-present	Infectious Diseases Society of America

Honors and Awards

1994	Aga Khan University Honors, Pediatrics, Psychiatry
1995	Valedictorian, Aga Khan University Medical College
1995	Commendation Medal, All Pakistan Psychiatry Conference
1993-1995	Begum Shafiq Zia-ul-Haq Merit Award, Aga Khan University
1994-1995	Shaukat Haroon Award, Aga Khan University
2001	George McCracken Award, 41st Interscience Conference on Antimicrobial Agents and Chemotherapy
2002	George McCracken Award, 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy
2003	Society for Healthcare Epidemiology of America Trainee Award
2009	UWSMPH Physician Excellence Rising Star Award
2009	UWSMPH, Department of Medicine Puestow Research Award
2013	HHS/SHEA/APIC award for reducing hospital infections
2014	John Q Sherman Award for Excellence in Patient Engagement
2015	VA National Nominee for the President's Early Career Award (PECASE)

Grant Support

Current

Project:	Probiotics for <i>S. aureus</i> carriage (VA MERIT)
Sponsor:	VA CS R&D
Role:	PI
Dates:	2011-2016

Project:	Prevention of Clostridium difficile infection (VA Pilot)
Sponsor:	VA HSR&D
Role:	PI
Dates:	2014-2015

Project:	Prevention of Clostridium difficile infection
Sponsor:	AHRQ
Role:	PI
Dates:	2015-2016

Project:	Patient Safety Center
Sponsor:	VA National Center for Patient Safety
Role:	PI
Dates:	2015-2018

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Project: Implementing daily chlorhexidine bathing*
Sponsor: AHRQ
Role: PI
Dates: 2015-2017

Project: Optimizing methods to culture ERCP scopes to reduce infections
Sponsor: ASGE
Role: PI
Dates: 2015

Past Awards

Project: Probiotics to Improve Outcomes of *Clostridium difficile*
Sponsor: NIH/NIA
Monetary amount \$150,000
Role: PI
Dates: 2012-2014

Project: Tobacco cessation to reduce healthcare-associated infections
Sponsor: UW CTRI
Monetary amount \$20,000
Role: PI
Dates: 2012-2013

Project: *Clostridium difficile* in acute care hospitals
Sponsor: UWSMPH Dept of Medicine Pilot Grant
Monetary amount \$30,000
Role: PI
Dates: 2012

Project: Infection control in the ambulatory care setting
Sponsor: UW Medical Foundation Ambulatory Care Innovations Grant
Monetary amount \$15,000
Role: PI
Dates: 2011-2012

Project: Reducing Nosocomial Infections in ICUs by Active Screening Surveillance
NRI 03-268
Sponsor: VA HSR &D
Monetary amount \$500,000
Role: Co-Investigator (McKinley: PI)
Dates: 2009-2012
Percent Effort 5%

Project: Small RNA in the intestine
Sponsor: UW WISCID
Monetary Amount \$50,000
Role: Co-investigator (Goodrich-Blair: PI)
Dates: 2010-2011

Project: Influenza vaccination optimization

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Sponsor: UW ICTR
Monetary amount \$50,000
Role: Co-investigator (Sethi: PI)
Dates: 2010-2011

Project: Influenza immunology
Sponsor: UW Vilas grant
Monetary Amount \$12,000
Role: Co-investigator (Friedrich: PI)
Dates: 2010-2011

Project: EBV related lymphoma in the elderly
Sponsor: UW Cancer Center
Monetary Amount 50,000
Role: Co- Investigator (PI: Sugden)
Dates: 2009
Percent Effort 10%

Project: Hospital Infections from the Social Science Perspective
Sponsor: UW ICTR
Monetary Amount 25,000
Role: Co-Principal Investigator (PI: Moynihan, LaFollette School of Public Affairs)
Dates: 2009-2010
Percent Effort 5%

Project: HIV and smoking
Sponsor: UW ICTR
Monetary Amount 50,000
Role: Co- Investigator (PI: Sosman)
Dates: 2009-2010
Percent effort 2%

Project: VAP in older adults
Sponsor: Hartford Foundation
Monetary Amount 50,000
Role: Scholar
Dates: 2010
Percent effort 5%

Sponsor: Pfizer visiting professorship
Project: Visiting professorship for Dr. Gregor Reid
Role: Principal Investigator
Dates: 2010

Project: VAP management
Sponsor: UW ICTR
Monetary Amount 50,000
Role: PI
Dates: 2009-2010
Percent effort 10%

Project: Probiotics for VRE and MRSA

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Sponsor: UW Wisconsin Partnership New Investigator
Monetary Amount 100,000
Role: PI
Dates: 2008-2010
Percent effort 20%

Project: Vitamin D in HIV infected Women
Sponsor: Wisconsin Women's Health Foundation
Monetary Amount 10,000
Role: PI
Dates: 2008
Percent Effort 10%

Project: Prevention of healthcare-associated Infections
Sponsor: NIH K12, National Institute on Aging
Role: Scholar
Dates: 2006-2009

Project: Preemptive barrier precautions for reducing nosocomial infections
Sponsor: Society of Critical Care Medicine
2006 New Investigator Award
Role: PI
Dates: 2006

Research Focus

Identification of risks for and prevention of antimicrobial resistant healthcare-associated infections.

Training

2004-2009 Clinical Investigation PhD Program
2006-2009 K-12 Institute on Aging- Scholar (Carnes, PI)

Publications

a. Papers published in, or accepted by, refereed journals

1. **Safdar N**, Crnich CJ, Maki DG. Nosocomial Infections in the Intensive Care Unit Associated with Invasive Medical Devices. Curr Infect Dis Rep. 3 (6):487-495 Dec (2001). PMID: 11722804.
2. Parks HJ, **Safdar N**, Schmidt H. Decline in mortality of coronary heart disease among whites and blacks in Wisconsin 1979-1998. Wisconsin Medical Journal 101: 23-27 (2002). PMID: 12109196
3. **Safdar N**, Love RB, Maki DG. Severe *Ehrlichia chaffeensis* infection in a lung transplant recipient: a review of ehrlichiosis in the immunocompromised patient. Emerging Infectious Diseases 8: 320-323 Mar (2002). PMID: 11927032
4. **Safdar N**, Maki DG. The commonality of risk factors for nosocomial colonization and infection with antimicrobial-resistant *Staphylococcus aureus*, enterococcus, gram-negative bacilli, *Clostridium difficile*, and *Candida*. Ann Intern Med 136: 834-44 Jun (2002). PMID: 12044132

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5. Said A, **Safdar N**, Lucey M. Is TIPS a cost-effective therapy for the prevention of variceal rebleeding. Hepatology 36: 259- 60 Jul (2002). PMID: 12085378
6. **Safdar N**, Said A, Gangnon R, Maki DG. The risk of hemolytic uremic syndrome after antibiotic treatment for *Escherichia coli* O157: H7 enteritis: a meta-analysis. JAMA 288: 1014-6 Aug (2002) & 3110-2 (2002). PMID: 12190370
7. **Safdar N**, Kluger D, Maki DG. A review of risk factors for catheter-related bloodstream infection caused by percutaneously inserted noncuffed central venous catheters: implications for preventative strategies. Medicine (Baltimore) 81:466-79 Nov (2002). PMID: 12441903
8. **Safdar N**, Maki DG. Inflammation at the insertion site is not predictive of catheter-related bloodstream infection with short-term, noncuffed central venous catheters. Critical Care Medicine 30: 2632-5 Dec (2002). PMID: 12483050
9. **Safdar N**, Young DK, Andes D. Autochthonous furuncular myiasis in the United States: case report and literature review. Clinical Infectious Diseases 36: 73-80 Apr (2003). PMID: 12652404
10. **Safdar N**, Narans L, Gordon B, Maki DG. Comparison of culture screening methods for detection of nasal carriage of methicillin-resistant *Staphylococcus aureus*: a prospective study comparing 32 methods. J Clin Microbiol 41: 3163-6 Jul (2003). PMID: 12843058
11. **Safdar N**, Andes DR, Craig WA. In vivo pharmacodynamic activity of daptomycin. Antimicrobial Agents and Chemotherapy 48: 63-8 Jan (2004). PMID: 14693519
12. **Safdar N**, Maki DG. The pathogenesis of catheter-related bloodstream infection with noncuffed short-term central venous catheters. Intensive Care Medicine 30: 62-7 Jan (2004). PMID: 14647886
13. Rosenthal VD, Guzman S, **Safdar N**. Effect of education and performance feedback in reducing the rates of catheter-associated urinary tract infection in Argentina. Infection Control and Hospital Epidemiology 25: 47-50 Jan (2004). PMID: 14756219
14. **Safdar N**, Maki DG. Quality of care and satisfaction among patients isolated for infection control. JAMA [Letter] 291:421-2 Jan (2004). PMID: 14747491
15. Said A, **Safdar N**, Lucey MR, Knechtle SJ, D'Alessandro A, Musat A, Pirsch J, Kalayoglu M, Maki DG. Infected bilomas in liver transplant recipients, incidence, risk factors and implications for prevention. Am J Transplant 4:574-82 Apr (2004). PMID: 15023150
16. **Safdar N**, Said A, Lucey MR. The role of selective digestive decontamination for reducing infection in patients undergoing liver transplantation: a systematic review and meta-analysis. Liver Transpl 10: 817-27 Jul (2004). PMID: 15237363
17. **Safdar N**, Handelsman J, Maki DG. Does combination antimicrobial therapy reduce mortality in Gram-negative bacteraemia? A meta-analysis. Lancet Infect Dis 4:519-27 Aug (2004). PMID: 15288826*
18. **Safdar N**, Said A, Lucey MR, Knechtle SJ, D'Alessandro A, Musat A, Pirsch J, Mcdermott J, Maki DG. Infected bilomas in liver transplant recipients: clinical features, optimal

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- management and risk factors for mortality. Clinical Infectious Diseases 15: 517-25 Aug (2004). PMID: 15356815
19. Barrett B, Brown R, Mundt M, Dye L, Alt J, **Safdar N**, Maberry R. Using benefit harm tradeoffs to estimate sufficiently important difference: the case of the common cold. Med Decis Making 25: 47-55 Jan-Feb (2005). PMID: 15673581
 20. **Safdar N**, Fine JP, Maki DG. Meta-analysis: methods for diagnosing intravascular device-related bloodstream infection. Ann Intern Med 142: 451-66 Mar (2005). PMID: 15767623*
 21. Rosenthal VD, Guzman S, Migone O, **Safdar N**. The attributable cost and length of hospital stay because of nosocomial pneumonia in intensive care units in 3 hospitals in Argentina: a prospective, matched analysis. Am J Infect Control 33: 157-61 Apr (2005). PMID: 15798670
 22. **Safdar N**, Slattery WR, Knasinski V, Gangnon RE, Li Z, Pirsch JD, Andes D. Predictors and outcomes of candiduria in renal transplant recipients. Clin Infect Dis 40:1413-21 May (2005). PMID: 15844063
 23. Barrett B, Brown R, Mundt M, Safdar N, Dye L, Maberry R, Alt J. The Wisconsin Upper Respiratory Symptom Survey is responsive, reliable, and valid. J Clin Epidemiol 58: 609-17 Jun (2005). PMID: 15878475
 24. **Safdar N**, Crnich CJ and Maki DG. The pathogenesis of ventilator-associated pneumonia: its relevance to developing effective strategies for prevention. Respir Care 50: 725-41 Jun (2005). PMID: 15913465
 25. Crnich CJ, **Safdar N**, and Maki DG. The role of the intensive care unit environment in the pathogenesis and prevention of ventilator-associated pneumonia. Respir Care 50:813-38 Jun (2005). PMID: 15913471
 26. **Safdar N**. Bloodstream infection: an ounce of prevention is a ton of work. Infect Control Hosp Epidemiol 26:511-4 Jun (2005). PMID: 16018424
 27. **Safdar N**, Maki DG. Risk of catheter-related bloodstream infection with peripherally inserted central venous catheters in hospital patients. Chest 128: 489-495 Aug (2005). PMID: 16100130
 28. Higuera F, Rosenthal VD, Duarte P, Ruiz J, Franco G, **Safdar N**. The effect of process control on the incidence of central venous catheter-associated bloodstream infections and mortality in intensive care units in Mexico. Crit Care Med 33; 2022-7 Sep (2005). PMID: 16148475
 29. Rosenthal VD, Guzman S, **Safdar N**. Reduction in nosocomial infection with improved hand hygiene in intensive care units of tertiary care in Argentina. Am J Infect Control 33: 392-7 Sep (2005). PMID: 16153485
 30. **Safdar N**, Dezfulian C, Collard HR, Saint S. Clinical and economic consequences of ventilator-associated pneumonia: a systematic review. Crit Care Med 33: 2184-93 Oct (2005). PMID: 16215368
 31. Andes D, **Safdar N**. Efficacy of micafungin for the treatment of candidemia. [Editorial]. Eur J Clin Microbiol Infect Dis 24:662-4 Oct (2005). PMID: 16247615

32. Safdar N, Maki DG. Lost in translation. Infect Control Hosp Epidemiol 27(1):3-7 Jan (2006). PMID: 16418979.
33. Andes D, **Safdar N**, Marchillo K, Conklin R. Pharmacokinetic-pharmacodynamic comparison of amphotericin B (AMB) and two lipid-associated AMB preparations, liposomal AMB and AMB lipid complex, in murine candidiasis model. Antimicrob Agents Chemother 50: 674-84. Feb (2006). PMCID: PMC1366906
34. Singh N, Limaye AP, Forrest G, **Safdar N**, Munoz P, Pursell K, Houston S, Rosso F, Montoya JG, Patton P, Del Busto R, Aguado JM, Fisher RA, Klintmalm GB, Miller R, Wagener MM, Lewis RE, Kontoyiannis DP, Husain S. Combination of voriconazole and caspofungin as primary therapy for invasive aspergillosis in solid organ transplant recipients: a prospective, multicenter, observational study. Transplantation 81:320-6 Feb (2006). PMID: 16477215
35. Smith J, **Safdar N**, Knasinski V, Simmons W, Bhavnani SM, Ambrose PG, Andes D. Voriconazole therapeutic drug monitoring. Antimicrob Agents Chemother 50: 1570-2 Apr (2006). PMCID: 1426935
36. Ramirez Barba EJ, Rosenthal VD, Higuera F, Oropeza MS, Hernandez HT, Lopez MS, Lona EL, Duarte P, Ruiz J, Hernandez RR, Chavez A, Cerrato IP, Ramirez GE, **Safdar N**. Device-associated nosocomial infection rates in intensive care units in four Mexican public hospitals. Am J Infect Control 34:244-7 May (2006). PMID: 16679185
37. Pfeiffer CD, Fine JP, **Safdar N**. Diagnosis of invasive aspergillosis using a galactomannan assay. Clin Infect Dis 42: 1417-27 May (2006). PMID: 16619154*
38. Singh N, Limaye AP, Forrest G, **Safdar N**, Muñoz P, Pursell K, Houston S, Rosso F, Montoya JG, Patton PR, Del Busto R, Aguado JM, Wagener MM, Husain S. Late-onset invasive aspergillosis in organ transplant recipients in the current era. Med Mycol 44: 445-9 Aug (2006). PMID: 16882611
39. **Safdar N**, Maki DG. Use of vancomycin-containing lock or flush solutions for prevention of bloodstream infection associated with central venous access devices: a meta-analysis of prospective, randomized trials. Clin Infect Dis 43: 474-84 Aug (2006). PMID: 16838237
40. **Safdar N**, Marx J, Meyer NA, Maki DG. Effectiveness of preemptive barrier precautions in controlling nosocomial colonization and infection by methicillin-resistant *Staphylococcus aureus* in a burn unit. Am J Infect Control 34: 476-83 Oct (2006). PMID: 17015152
41. Chlebicki MP, **Safdar N**. Topical chlorhexidine for prevention of ventilator-associated pneumonia: a meta-analysis. Crit Care Med 35: 595-602 Feb (2007). PMID: 17205028*
42. **Safdar N**, Kaul DR, Saint S. Clinical Problem Solving. Into the woods. N Engl J Med 356: 943-7 Mar (2007). Exempt from PMCID.
43. Li J, Fine JP, **Safdar N**. Prevalence-dependent diagnostic accuracy measures. Stat Med 26: 3258-73 Jul (2007). PMID: 17212380
44. Crnich CJ, Safdar N, Robinson J, Zimmerman D. Longitudinal trends in antibiotic resistance in US nursing homes, 2000-2004. Infect Control Hosp Epidemiol: 28(8):1006-8 Aug (2007). PMID: 17620252.

45. Maki DG, **Safdar N**, Ebert SC. Prevalence, consequences, and solutions. Pharmacotherapy 27(10 Pt 2): 121S-125S Oct (2007). PMID: 17896904
46. Gauthier GM, **Safdar N**, Klein BS, Andes DR. Blastomycosis in solid organ transplantation recipients. Transpl Infect Dis 9: 310-7 Dec (2007). PMID: 17428278
47. **Safdar N**, Abad CL. Adherence to evidence-based recommendations for prevention of ventilator-associated pneumonia: the survey says.... Respir Care 52: 1678-9 Dec (2007). PMID: 18028555
48. Kethireddy S, **Safdar N**. Urokinase lock or flush for prevention of bloodstream infections associated with central venous catheters for chemotherapy: a meta-analysis of prospective randomized trials. J Vasc Access 9: 51-7 Jan-Mar (2008). PMID: 18379981
49. **Safdar N**, Abad C. Educational interventions for prevention of healthcare-associated infection: a systematic review. Crit Care Med 36: 933-40 Mar (2008). PMID: 18431283
50. **Safdar N**, Bradley EA. The risk of infection after nasal colonization with *Staphylococcus aureus*. Am J Med 121: 310-5 Apr (2008). PMID: 18374690*
51. **Safdar N**, Abad CL, Kaul DR, Jarrard D, Saint S. Clinical problem-solving. An unintended consequence—a 79-year-old man with a 5-month history of fatigue and 20-lb (9-kg) weight loss presented to his local physician. N Engl J Med 358: 1496-501 Apr (2008). Exempt from PMCID
52. Dinh MT, Abad CL, **Safdar N**. Diagnostic accuracy of the physical examination and imaging tests for osteomyelitis underlying diabetic foot ulcers: meta-analysis. Clin Infect Dis 47: 519-27 Aug (2008). PMID: 18611152
53. **Safdar N**, Barigala R, Said A, McKinley L. Feasibility and tolerability of probiotics for prevention of antibiotic-associated diarrhea in hospitalized US military veterans. J Clin Pharm Ther 33: 663-8 Dec (2008). PMID: 19138244
54. **Safdar N**, Abad CL, Narayan S, Kaul DR, Saint S. Clinical problem solving. Keeping an open mind. N Engl J Med 360: 72-6 Jan (2009). Exempt from PMCID
55. **Safdar N**. Antimicrobial catheters in the ICU: is the juice worth the squeeze? Critical care 13(3):148 (2009). PMID: 19519934
56. Al-Niaini A, **Safdar N**. Supplemental perioperative oxygen for reducing surgical site infection: a meta-analysis. Journal of evaluation in clinical practice. 2009; 15(2):360-5. PMID: 19335497
57. Abad CL, **Safdar N**. The role of lactobacillus probiotics in the treatment or prevention of urogenital infections--a systematic review. Journal of chemotherapy 21(3):243-52 (2009) PMID: 19567343
58. Sun HY, Aguado JM, Bonatti H, Forrest G, Gupta KL, **Safdar N**, John GT, Pursell KJ, Muñoz P, Patel R, Fortun J, Martin-Davila P, Philippe B, Philit F, Tabah A, Terzi N, Chatelet V, Kusne S, Clark N, Blumberg E, Julia MB, Humar A, Houston S, Lass-Flörl C, Johnson L, Dubberke ER, Barron MA, Lortholary O, Singh N. Pulmonary zygomycosis in solid organ

transplant recipients in the current era. American journal of transplantation (9):2166-71 (2009). PMID: 19681829

59. Singh N, Aguado JM, Bonatti H, Forrest G, Gupta KL, **Safdar N**, John GT, Pursell KJ, Muñoz P, Patel R, Fortun J, Martin-Davila P, Philippe B, Philit F, Tabah A, Terzi N, Chatelet V, Kusne S, Clark N, Blumberg E, Julia MB, Humar A, Houston S, Lass-Flörl C, Johnson L, Dubberke ER, Barron MA, Lortholary O. Zygomycosis in solid organ transplant recipients: a prospective, matched case-control study to assess risks for disease and outcome. The Journal of infectious diseases 200(6):1002-11 (2009). PMID: 19659439
60. Statins are associated with improved outcomes of bloodstream infection in solid-organ transplant recipients. Hsu J, Andes DR, Knasinski V, Pirsch J, Safdar N. European journal of clinical microbiology & infectious diseases : official publication of the European Society of Clinical Microbiology. 2009; 28(11):1343-51. PMID:19669657
61. O'Horo J, **Safdar N**. The role of immunoglobulin for the treatment of *Clostridium difficile* infection: a systematic review. Int J Infect Dis 13: 663-7 Jan (2009). PMID: 19186089
62. Rice JC, **Safdar N**. Urinary tract infections in solid organ transplant recipients. Am J Transplant Suppl 4: S267-272 Dec (2009). PMID: 20070689
63. Varma A, Spier BJ, Pfau PR, **Safdar N**. A case of newly diagnosed metastatic pancreatic cancer presenting with associated immune thrombocytopenic purpura. WMJ 108: 459-61 Dec (2009). PMID: 20131688
64. **Safdar N**, Smith J, Knasinski V, Sherkow C, Herrforth C, Knechtle S, Andes D. Infections after the use of alemtuzumab in solid organ transplant recipients: a comparative study. Diagn Microbiol Infect Dis 66: 7-15 Jan (2010). PMID: 19963164
65. Sun HY, Forrest G, Gupta KL, Aguado JM, Lortholary O, Julia MB, **Safdar N**, Patel R, Kusne S, Singh N. Rhino-orbital-cerebral zygomycosis in solid organ transplant recipients. Transplantation. 90(1):85-92 (2010). PMID: 20626095
66. Kumar A, **Safdar N**, Kethireddy S, Chateau D. A survival benefit of combination antibiotic therapy for serious infections associated with sepsis and septic shock is contingent only on the risk of death: a meta-analytic/meta-regression study. Crit Care Med 38: 1651-64 Aug (2010). PMID: 20562695
67. Jessel P, **Safdar N**, McCune WJ, Saint S, Kaul Dr. Clinical problem-solving. Thinking inside the Box. N Engl J Med 363: 574-9 Aug (2010). PMID: 20818893
68. Halton KA, Cook D, Paterson DL, **Safdar N**, Graves N. Cost-effectiveness of a central venous catheter care bundle. PloS one. 5(9) (2010). PMID:20862246
69. Abad C, Fearday A, **Safdar N**. Adverse effects of isolation in hospitalized patients: a systematic review. J Hosp Infect 76: 97-102 Oct (2010). PMID: 20619929
70. Hsu J, Abad C, Dinh MT, **Safdar N**. Prevention of endemic healthcare-associated *Clostridium difficile* infection: reviewing the evidence. Am J Gastroenterol 105: 2327-39 Nov (2010). PMID: 20606676

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71. O'Horo JC, Silva GL, **Safdar N**. Anti-infective locks for treatment of central line-associated bloodstream infection: a systematic review and meta-analysis. American journal of nephrology. 34(5):415-22 (2011) PMID: 21934302
72. Abad CL, Kumar A, **Safdar N**. Antimicrobial therapy of sepsis and septic shock--when are two drugs better than one? Critical care clinics. 27(2):e1-27 (2011). PMID: 21440195
73. Monachese M, Cunningham-Rundles S, Diaz M, Guerrant R, Hummelen R, Kemperman R, Kerac M, Kort R, Merenstein DJ, Panigrahi P, Ramakrishna B, **Safdar N**, Shane AL, Trois L, Reid G. Probiotics and prebiotics to combat enteric infections and HIV in the developing world: a consensus report. Gut Microbes 2(3): 198-207. May (2011). PMID: 21804356
74. **Safdar N**, Craig WA. Fidaxomicin for Clostridium difficile Infection. The New England journal of medicine 364(19):1875; author reply 1875-6 (2011). PMID:21561360
75. **Safdar N**, McKinley LM, Davidson B, Broome C, Schenk J. Recommendations to replace peripheral venous catheters every 72-96 hours: is a single reference enough? Journal of Hospital Infection 79: 172-3. Oct (2011). PMID: 21802173
76. Hsu J, **Safdar N**. Polyclonal Immunoglobulins and hyperimmune globulins in the prevention and treatment of infectious diseases. Infectious Diseases Clinics of North America 25: 773-88. Dec (2011). PMID: 22054755
77. **Safdar N**, Mittelstadt K, Jacobs E, Gaines M. Patient Awareness of the risk of central line-associated bloodstream infections American Journal of Infection Control 40: 87-8 Feb (2012).
78. Wallace E, Douglas C, **Safdar N** et al. Different strokes for different folks". J Hosp Med 7: 258-61 Mar (2012).
79. O'Horo JC, Silva G, **Safdar N**. Chlorhexidine bathing for reducing BSI. Infection Control and Hospital Epidemiology 33(3): 257-67. Mar (2012).
80. Andes DR, **Safdar N** et al. Impact of treatment strategy on outcomes in patients with candidemia and other forms of invasive candidiasis: a patient-level quantitative review of randomized trials. Clin Infect Dis 54: 1110-22. Apr (2012).
81. **Safdar N**, Abad C, Kahl D, Saint S. Skin Deep: Clinical Problem Solving. New England Journal of Medicine 366: 1336-40. Apr (2012).
82. O'Horo JC, Sternke M, Jones AE, Harper C, **Safdar N**. Molecular techniques for diagnosis of *C. difficile* infection: systematic review and meta-analysis. Mayo Clinic Proceedings 87: 643-51. Jul (2012)
83. O'Horo JC, Thompson D, **Safdar N**. Is the gram stain useful in the microbiologic diagnosis of VAP? A meta-analysis. Clin Infect Dis 55: 551-61. Aug (2012)
84. **Safdar N**, Bearden A, Friedrich T, Spiegel CA. An outbreak of H1N1 in a children's hospital. Influenza Other Respi Viruses 6: 374-9. Jan (2012).
85. Adad C, **Safdar N**. From ulcer to infection: an update on clinical practice and adjunctive treatments of diabetic foot ulcers. Curr Infect Dis Rep 14: 540-50. Oct (2012)

86. Morgan DJ, Meddings J, Saint S, Lautenbach E, Shardell M, Anderson D, Milestone AM, Drees M, Pineles L, **Safdar N**, Bowling J, Henderson D, Yokoe D, Harris AD, SHEA Research Network. Does nonpayment for hospital-acquired catheter-associated urinary tract infections lead to overtesting and increased antimicrobial prescribing? Clin Infect Dis 55: 923-9. Oct (2012).
87. **Safdar N**. Clostridium difficile: the emerging epidemic. Mayo Clin Proc 87: 1037-9. Nov (2012).
88. Munoz-Price LS, **Safdar N**, Beier JC, Doggett SL. Bed bugs in healthcare settings. Infection control and hospital epidemiology 33(11):1137-42 (2012) PMID:23041813
89. Ottum A, Sethi AK, Jacobs EA, Zerbel S, Gaines ME, **Safdar N**. Do patients feel comfortable asking healthcare workers to wash their hands? Infect Control Hosp Epidemiol 33: 1282-4. Dec (2012).
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50. Patwari P, Bearden A, **Safdar N**, Hsu J. Adherence to Personal Protective Equipment for Pandemic Influenza. Accepted for presentation at the Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, 2010.
51. Mckinley L, **Safdar N**. Change in Antimicrobial Treatment Patterns with Use of Silver-impregnated Foley Catheters. Accepted for presentation at the Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, 2010.
52. **Safdar N**, Silva G. The efficacy of chlorhexidine baths for reducing healthcare-associated bloodstream infection. Accepted for presentation at the Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, 2010.
RE: Abstract: 3115
53. Crnich CJ, **Safdar N**, Maki DG, Warrack S, Duster M. Strain Typing of MRSA by Repetitive-Element PCR and Pulsed-Field Gel Electrophoresis (PFGE). 48th Annual Meeting of the Infectious Diseases Society of America (IDSA), October 21 – 24, at the Vancouver Convention Centre in Vancouver, British Columbia, Canada. 2010.
54. **Safdar N**, Kohl J, Heffernan R, Davis JP. Increased Hospitalizations and Deaths Associated with Clostridium Difficile Infection Among Older Adults in Wisconsin, 1993-2008. 48th Annual Meeting of the Infectious Diseases Society of America (IDSA), October 21-24, at the Vancouver Convention Centre in Vancouver, British Columbia, Canada. 2010.
55. Bearden A, **Safdar N**. "Probiotics for Combating Immunosenescence: A Systematic Review of the Literature," Presented at Gerontological Society of America Annual Meeting, Atlanta, GA, 2009.
56. Patwari P, Bearden A, Hsu J, **Safdar N** Adherence to Personal Protective Equipment for Pandemic Influenza. Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, 2010.

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57. **Safdar N**, Patwari P, Bearden A, Hsu J. Is the gastrointestinal tract an important site for methicillin-resistant *Staphylococcus aureus* carriage? Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, GA, 2010.
58. Bearden A, **Safdar N**. "Probiotics for Enhancing Immunity in Aging Women: Protocol for a Pilot Study." University of Wisconsin Center for Women's Health Research 10th Anniversary Event. Madison, WI, 2009.
59. **Safdar N**, Svenson J, Wigton R, Fox B. Decision-making regarding antibiotic use for upper respiratory infections. Antibiotic resistance Conference, NIH 2009.
60. Leona Vandevusse, Lisa Hanson, **Nasia Safdar**. Effects of probiotic use during pregnancy on lactobacillus and group B streptococcus vaginal colonization has been selected for a poster presentation at the 13th Annual Southeastern Wisconsin Nursing Research Conference-Dispelling myths with research evidence, Marquette University, Milwaukee, WI, 2011.
61. Hendricks C, Zerbel S, Schmitz M, **Safdar N**. Hand hygiene before and after patient care. 2011 Association for Professionals in Infection control.
62. Haun N, Safdar N. Risk factors for infection/colonization with VRE. A case-control study. Society for healthcare epidemiology of America, Dallas, TX, 2011.
63. Safdar N, Spiegel CA, Crnich C, Brennan M. Acceptability of Brucella postexposure prophylaxis in healthcare workers. Society for healthcare epidemiology of America, Dallas TX, 2011.
64. Ephraim E, Safdar N. Probiotics for gp B streptococcal infection. Society for healthcare epidemiology of America, Dallas, TX, 2011.
65. McKown T, Enser J, Hsu J, Safdar N. Risk factors for clostridium difficile infection in transplant. Society for healthcare epidemiology of America, Dallas, TX, 2011.
66. Ephraim E, C. Krueger, A. Wang, K. Carlson, W. Kou, M. Duster, **N. Safdar**. Exploration of Delivery Devices for Topical Application of Probiotic. ICAAC 2011, Chicago, IL.
67. **N. Safdar, MD**, M. Strerath, J. Mcgrath, C. Spiegel, PhD. Is a Single Enterococcal Positive Blood Culture Representative of Infection or Skin Contamination? ICAAC 2011, Chicago, IL
68. A. Bearden, C. L. Abad, J. Sosman, N. Binkley, **N. Safdar**, Cross Sectional Study of Vitamin D Levels and Immunologic Outcomes in HIV Infected Adults. IDSA 2011, Boston MA.
69. Linda McKinley, Kathy Matteson, Cathy Stampfli, Christopher Crnich, **Nasia Safdar**, Methicillin Resistant *Staphylococcus aureus* Screening Evolution: From Targeted to Total Patient Surveillance in a VA Hospital. IDSA 2011, Boston MA.
70. Codella J, Oguzhan A, **Safdar N**. C difficile agent based modelling. Society for medical Decision Making. Chicago, IL, 2011.
71. Saint S, Greene MT, Olmsted RN, Chopra V, Meddings J, **Safdar N**, Krein SL. Infection preventionists know safe care. Association for Professionals in Infection Control and Epidemiology. Feb 2013.

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72. Safdar N, Codella J, Dundon A, Alagoz O. Healthcare worker behavior and workflow changes for the care of patients in isolation precautions. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
73. Young R, Valentine S, Bernado A, McKinley L, Krupp A, Safdar N. Perceptions of patients regarding isolation precautions for multidrug resistant organisms: A qualitative study. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
74. Warrack S, Panjekar P, Duster M, Safdar N. Probiotics for the reduction of colonization with MRSA. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
75. McKinley L, Moriarty H, Short T, Hagle M, Valentine S, Ranum A, Safdar N. Regional differences in vancomycin-resistant enterococcus and C difficile co-colonization rates in critically ill veterans. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
76. Warrack S, Hanson L, VandeVusse L, Duster M, Panjekar P, Safdar N. The impact of prenatal probiotics on Group B streptococcus colonization. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
77. Mak R, Mikelsons D, Stevens L, Berndt D, Zechel J, Betts T, Curran W, Safdar N, Crnich C. The importance of socio-adaptive factors in technology implementation: Lessons learned. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
78. McKinley L, Jucovy P, Moriarty H, Safdar N. There and back again: A tale of institutional review board considerations for cluster trials in infection control. Association for Professionals in Infection Control and Epidemiology. Fort Lauderdale, FL, June 2013.
79. Safdar N. Calibration and validation methods for an agent-based simulation to model clostridium difficile transmission dynamics in a healthcare institution. The 35th Annual Meeting of the Society for Medical Decision Making. Baltimore, MD, October 2013.

h. Technical reports and other publications

None

i. Patents

Co-inventor, Wisconsin Upper Respiratory Symptom Survey (WURSS-21)

Research Methods Teaching

UWSMPH/Hospital

2008-present	Co-director Interns Research Workshop
2011, 2014	Facilitator, Resident Journal Club
2008-present	Facilitator, ID Fellowship Journal Club

Research Mentor

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Junior Faculty (10)

1. Michael Pulia, DOM
2. Luke Funk, Dept of Surgery
3. Dan Shirley, DOM
4. Kyle Richards, Dept of Surgery
5. Daniel Livorsi, University of Indiana. Recipient of Project Protect Fellowship from AHRQ.
Mentor: Safdar
6. Monideepa Becerra, University of California San Bernardino. Recipient of National Diversity Internship Scholarship. Mentor: Safdar
7. Cynthia Phelan-nurse scientist at VA
8. Nicole Pulia, Advanced geriatrics fellow
9. Sarah Panzer, DOM
10. Benjamin Becerra- University of California San Bernardino. Recipient of National Diversity Internship Scholarship. Mentor: Safdar

Medical Fellows (14)

1. Piotr Chlebicki 2004-2005
2. Marie Dinh 2005-2007
3. Jennifer Hsu (resident) 2005-2010
4. Shoba Narayan 2006-2007
5. Shravan Kethireddy, 2006-2008
6. Cybele Abad 2006-2009
7. Ahmed Al-Niami 2006-present
8. Ravikiran Barigala 2007-2009
9. Debra Thompson 2007-2009
10. Allison Bearden 2007- present
11. Kazu Jindai 2012-present- finalist at national SHEA epi competition
12. Michael Anderson 2012-present
13. Anna Corey 2013-2014
14. Rameet Thapa 2013-present

Infection control related projects with medical residents (15)

1. Prakash Balasubramanian 2006- 2007
2. Karen Serrano 2009
3. Priti Patwari 2009-2011
4. Eric Yanke 2013-present
5. Emily Cowan- *C. difficile*
6. Josh Phillips- Patient engagement
7. James Hwang- Patient engagement
8. Matt Ziegler- Central line infection prevention (also listed under med student)
9. Nick Haun- *C. difficile* (also listed under med student)
10. Dani Pelligrini- Central line infection prevention
11. Jeffrey Hubers- Readmissions due to HAI
12. Sverrir Gunnarsson- *Cardiobacterium hominis* case report
13. Jessica Tischendorf- Multidrug resistant infection prevention
14. Rafael de Avila (exchange student from Brazil)- multidrug resistant infection prevention
15. Christopher Pfeiffer-now faculty at OHSU

Visiting students (2)

1. Germana LM Silva
2. Sin-Hui Wong

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Medical Students (16)

1. Kisha Thomas 2006 Shapiro award
2. Colleen Sherkow - 2006 NIH/GCRC Shapiro award
3. Casey Herreforth - 2006 NIH/GCRC Shapiro award
4. Elisa Bradley 2007
5. John O'Horo 2008-2012
6. Nicholas Haun 2010-2011
7. Jacob Enser 2010
8. Trevor McKown 2010
9. Matthew Ziegler 2009
10. Adam Hofer 2011
11. Anthony Wheeler 2013
12. John Bak 2012
13. Anna Barker- funded by ICTR
14. Teresa Caya 2014
15. Ashley van Galen 2014
16. Ian Holmen 2015

Graduate Students (18)

1. Mike Strerath 2010-2011
2. Justin Kohl 2010
3. James Codella 2010-2014
4. Andy Ottum. 2009-1010
5. Danielle Schulte 2012-2014
6. Unnur Gudnadottir 2012-2013
7. Jessica Frosch 2013
8. Ed Zhong 2013-present
9. Jackson Musuuza 2013-present
10. Alyssa Bernardo 2012-2014
11. Rebekah Blakney 2015
12. Caitlyn Ngam 2015
13. Benjamin Becerra-National Diversity Intern Program Award Recipient-University of California, San Bernardino
14. Travis deWolfe 2014 and 2015
15. Mary Jo Knobloch 2015
16. Karishma Desai 2015
17. Megan Cain
18. Eric Hammond

Undergraduate Students (27)

Active member of the ASM online minority mentoring program 2006-2009

1. Preeti Thakur- 2006
2. Safoora Choudry, University of Illinois at Chicago- 2008-2009
3. Justin Donato- 2009-2010
4. Carrie Hendricks 2010-2011
5. Amy Jones 2010-2011
6. Kurt Mittelstadt 2010-2011
7. Samantha Seibel 2010
8. Matthew Sternke 2010-2011
9. Courtney Krueger 2011
10. Joseph Giesler 2010-2011
11. Vaughn Williams 2012-2013

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12. Emily Shulkin 2012-2013
13. Rachell Caniza 2012-2013
14. Jennifer Wang 2011-2014
15. Emma Ide 2012-2014
16. Matthew Schmidt 2013
17. Stephanie Bishop 2013
18. Lindsey Boyke 2012
19. Jessica Fritz 2011
20. James Ircink 2012
21. Riley Young 2011-2014- UW Hilldale Undergrad scholarship awardee.
22. Caroline Zellmer 2013-to date. UW Hilldale Undergrad scholarship awardee.
23. Sarah Parker 2013
24. Nura Said 2015
25. Andrew Ernst 2015
26. Brianna Young 2015
27. Nicolette Codispoti 2015

Pharmacy residents/students

1. Tyler Leibenstein 2011
2. Jason Bergsbakken 2013

Post doctoral fellows

1. Sandra Schumacher
2. Nicole Pulia
3. Rachel Roiland

Other: (Infection Preventionists)

Linda Mckinley
Sarah Van hoof
John Marx
Michelle Schmitz
Sara Zerbel
Rosa Mak

University Service

Administrative Appointments

Medical director infection control, University of Wisconsin Hospital and Clinics, 2009- present

UW

1. Chair, Infection Control Committee, University of Wisconsin Hospital and Clinics 5/2009-present
2. Infectious Diseases Fellowship Education Committee 5/2009- present
3. Member, Antibiotic Use subcommittee 2009- present
4. Senator, Faculty Senate, 2010-present

UWHC

1. Infection control committee 2000-2009 [member]
2. Infection control committee 2009- to present [Chair]
3. Cleaning subcommittee 2010- to present
4. Safety Committee 2010- to present

VA

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1. Member, VA R and D Committee
2. Member, VA Safety Committee
3. Member, VA Space Committee
4. Member, VA Animal Committee
5. Member, VA quality council
6. Member, VA Field Research Advisory Committee

Service VA infection control :

1. Leader, implementation of the MRSA outpatient initiative, 3/10
2. Champion, implementation of the C diff bundle. 3/11
3. Physician champion, antibiotic stewardship program, 8/11

Thesis Committees

1. Allison Bearden, infectious diseases fellow, 2009-2011, MS in Clinical Investigation
2. Micheal Strerath, 2011 candidate, Mentor, Field Experience
3. Jessica Frosch, 2012
4. Alyssa Bernardo 2014
5. Danielle Schulte 2014
6. James Codella, 2014
7. Jackson Musuuza, 2015
8. Anna Barker, 2015
9. Rebekah Blakney, 2015
10. Benjamin Becerra-Loma Linda University

Mentoring Committees

1. Luke Funk
2. Ticiana Leal
3. Sarah Panzer (chair)
4. Mike Pulia

Professional Service

National Committees

1. Society for Healthcare Epidemiology of America, Publications Committee 2006-2009
2. Society for Healthcare Epidemiology of America, Research Committee 2009-2014
Vice-Chair 2011- 2014, Chair 2014, 2015
3. American Society of Transplantation Infectious Diseases Community of Practice
committee 2009- present
4. Member of SHEA Journal Club 2011-2013
5. Chair of IDSA Catheter related bloodstream infection guideline committee

Grant Review

1. CDC Special Emphasis Study Section Member, 2007
2. Reviewer for QED grant
3. Reviewer for UW Intramural ICTR grants
4. CDC Special Emphasis Study Section Member, 2013
5. NIH Study Section 2013
6. CDC Special Emphasis Study Section Member, 2014
7. VA HSRD Study section member 2015
8. NIH special emphasis study section member 2015
9. CDC special emphasis study section member 2015

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Symposia Chaired

1. IDSA chair for symposium
2. ICAAC 2010 Meet the Expert
3. IDSA 2011 Chair session meet the expert
4. ID week 2013, Symposium speaker
5. ID week 2015 Symposium speaker

Editorial Board:

Open Transplantation Journal 2009- present
Plos One- 2012-present
Faculty of 1000 for infection prevention related articles

Ad Hoc Reviewer

American College of Physicians,
Infection Control and Hospital Epidemiology
American Journal of Infection Control
American Journal for Transplantation
Critical Care Medicine
American Journal of Medicine
Mayo Clinic Proceedings
Clinical Infectious Diseases
Lancet
JAMA