

Updated February 17<sup>th</sup> , 2019

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**Personal Data:**

Date of Birth: September 21, 1967

Place of Birth: Beirut, Lebanon

Languages Spoken: English, Arabic and French

**Education:**

Graduate:

- Masters in Health Management and Policy at the University of Michigan, Ann Arbor, Michigan, October 2000. (On Job/ On Campus Executive Program -MPH)
- Doctor of Medicine (MD) American University of Beirut, Beirut, Lebanon, June 1991.

Baccalaureate:

- Science (Biology) American University of Beirut, Beirut, Lebanon, June 1987.

**Training:**

Postgraduate:

- Fellowship: in Infectious Disease, State University of New York at Buffalo, Medical-Dental Consortium, Buffalo, New York, August 1996.
- Residency: in Internal Medicine, State University of New York at Buffalo, Medical-Dental Consortium, Buffalo, New York, August 1994.
- Internship: in Internal Medicine, State University of New York at Buffalo, Medical-Dental Consortium, Buffalo, New York, August 1992.

Additional training:

- Executive Clinical Development Program, Ascension May 2016- February 2017.
- Antimicrobial stewardship: rationale, design and implementation conference. Los Angeles, California, February 2-3, 2015.
- Medication safety training: Institute for Safe Medications Practices (ISMP) medication safety summit, August 19-21, 2014.
- CORE (Communicate Openly-Resolve Early) training: 2-day workshop to become Situation Managers to serve as internal communication consultants and

coaches at hospitals when an unanticipated or adverse medical outcome occurs, April 2013.

- Leadership development for physicians in academic health centers (October 9-21, 2011). Conducted by the department of Health Management and Policy, Harvard School of Public health, Boston, MA, October 2011.

**Faculty Appointments:**

- Professor of Medicine, (Clinician-Educator), FTA, Wayne State University School of Medicine, August 2013-present.
- Associate Professor of Medicine, (Clinician-Educator), FTA, Wayne State University School of Medicine, 2008-2013.
- Assistant Professor of Medicine, (Clinician-Educator), FTA, Wayne State University School of Medicine, 2001-8.
- Infectious Disease Faculty, St John Hospital and Medical Center, Internal Medicine Residency and Infectious Diseases Fellowship Programs, 2000-.

**Hospital and Other Professional Appointments:**

Health System- Ascension (active):

- Emergency Department Efficiency Taskforce, Lead, 2018-.
- Hospitalist Efficiency Taskforce, Lead, 2018-.
- Senior Medical Director, Care Excellence, 2015-.
- Senior Medical Director, Center of Excellence for Antimicrobial Stewardship and Infection Prevention, Ascension Health, 2015-.
- National Infectious Diseases Physician Leader, Ascension Health, 2013-.
- Co-chair, Ascension Health Antimicrobial Stewardship (AHAS) committee, Ascension Health, 2015-.
- Ascension Clinical Leadership Council, member, 2016-.
- Ascension Care Excellence Committee, member, 2017-.
- Ascension Quality and Safety Committee, member, 2017-.
- Ascension Therapeutic Specialty Affinity Group, member, 2013-.
- Infection Control Surveillance and Medication Management (ICSMM) National Champions Committee, co-chair 2014-.
- Ascension Health Infection Prevention Steering Committee, co-Chair 2009-.

Other appointments (active):

- Affiliated faculty, the Ann Arbor VA Medical Center/University of Michigan Patient Safety Enhancement Program (PSEP), 2009-
- Member, Society of Healthcare Epidemiology of America Guidelines Committee, 2018-.

**Major Professional Societies:**

- Infectious Diseases Society of America-Fellow (FIDSA) 2008-.
- Michigan Infectious Diseases Society-Member
- HIV Medical Association-Member.
- Society of Health Care Epidemiology of America- Fellow (FSHEA) 2010-.
- Association for Professionals in Infection Control and Epidemiology- Member.

- American Board of Quality Assurance and Utilization Review Physicians: Patient Safety Officer Section, member 2006-10.

**Licensure and Board Certification:**

- Michigan State License, active 1996-.
- Board Certified in Infectious Disease (#157880), 10/1996, recertified till 12/2016, recertified till 12/31/2025.
- Board Certified in Internal Medicine (#157880), 8/1994, recertified till 12/2014.
- American Board of Quality Assurance and Utilization Review Physicians Health Care Quality Management (HCQM) Certification, November 2006.
- American Board of Quality Assurance and Utilization Review Physicians Health Care Quality Management (HCQM) Certification, Patient Safety and Risk Management subspecialty, June 2008.

**Service:**

National, State, and Local Boards and Committees:

- The Role of the Infection Preventionist in a Transformed Healthcare System: Meeting Healthcare Needs in the 21st Century. APIC Consensus Conference, November 11-14, 2018.
- Member of technical expert panel, for Leading Practices in Antimicrobial Stewardship Technical Expert Panel Meeting, Joint Commission, May 25, 2018.
- Judge, SHEA Epi Competition, SHEA Spring 2018, Portland, OR, April 19<sup>th</sup>, 2018.
- Editorial board-member: American Journal of Infection Control, October 2017-present.
- Abstract reviewer, for the American College of Physicians Michigan Annual Fall Scientific Meeting, September 25-27, 2015.
- Member, of the group “Inpatient Antibiotic Prescribing: Setting a National Goal to Reducing Inappropriate Use.” CDC/ PEW effort, 2015-16.
- Editorial board-member: Infection Control and Hospital Epidemiology, August 2011-present.
- Member of the governing council, Michigan Antibiotic Resistance Reduction Coalition, 2002-present.
- Member, Veterans Affairs (VA) Ann Arbor Patient Safety Center of Inquiry (PSCI) board. Provides advice on safe and appropriate use of urinary catheters. 2013-present.
- Abstract reviewer, for the American College of Physicians Michigan Chapter Associate Day, May 22<sup>nd</sup>, 2015.
- Moderator, “The Future of CLABSI Prevention”, Society of Health Care Epidemiology of America Spring 2015: Science Guiding Prevention, May 16<sup>th</sup>, 2015.
- Judge of the oral presentations at the American College of Physicians Michigan Chapter Associate Day, May 9<sup>th</sup>, 2014.
- Member of the Promotion and Tenure Committee for Internal Medicine, Wayne State University School of Medicine, 2013, 2014.

- Member, Society of Healthcare Epidemiology of America panel to review the Central Line Associated Bloodstream Infection guidelines, 2013.
- Judge at the 2013 Annual Resident Research day, St John Hospital and Medical Center.

Reviewer:

- The Joint Commission Journal on Quality and Patient Safety, 2018.
- BMJ Open, 2016.
- JAMA Neurology, 2015.
- PLOS ONE, 2015.
- JAMA, 2014.
- Journal of hospital Medicine, 2014-present.
- Journal of Patient Safety, 2014-present.
- Infection Control and Hospital Epidemiology, 2007-present.
- American Journal of Infection Control, 2009-present.
- Journal of Critical Care, 2008, 2013, 2014.
- Lancet Infectious Diseases, 2013.
- Lung, 2013.
- European Journal of Internal Medicine, 2012.
- Archives of Internal Medicine, 2012.
- Translational Research, 2012.
- BMC Nursing, 2012.
- Journal of Infection and Public Health, 2010.
- Immunopharmacology and Immunotoxicology, 2009.
- Clinical Infectious Diseases, 2002-8.
- Abstract review for the American College of Physicians Michigan Associates Meeting Committee, May 2005, 2006.
- The American Journal of Managed Care, 2005.
- International Journal for Quality in Healthcare, 2004.
- Journal of General Internal Medicine, 2003.

**Awards:**

- Ambassador magazine TOP DOCs, May 2014.
- Recognition from St John Hospital and Medical Center Medical Executive Committee for the efforts to reduce healthcare-associated infections at St John Hospital and Medical Center, September 2012.
- Hour Detroit Top Doctors: 2010, 2011, 2013.
- Recognition award from St John Hospital and Medical Center Board of Trustees for the leadership role in Infection Prevention and Control in preventing infections and sharing the experience nationally through the Keystone Center of the Michigan Hospital Association, May 2010.
- Crain's Detroit Business honorable mentions for physicians related to prevention of hospital-acquired infections, September 2006.
- Recognition award from St John Health for the alpha project to reduce central line related blood stream infection, 2004.
- College Teaching Award for Wayne State University School of Medicine, 2004.

**Teaching:**

- **Course development:**
  1. Resident Physicians as Champions in Preventing Device-Associated Infections: Focus on Reducing Catheter-Associated Urinary Tract Infections. AHRQ Safety Program for Reducing CAUTI in Hospitals. AHRQ Pub No. 15-0073-6-EF, September 2015.
  2. “Resident Physicians as Champions in Preventing Device-Associated Infections: Focus on Reducing Catheter-Associated Urinary Tract Infections (CAUTI)”. Prepared with the support of On the CUSP: Stop CAUTI project, January 2015.
  3. “Principles of highly reliable care: Antimicrobial Stewardship”. A resource to improve appropriate antimicrobial use in Ascension Health hospitals. Toolkit prepared for Ascension Health (>100 hospitals), February 2014.
  4. “Principles of highly reliable care: Reducing *Clostridium difficile* infection”. A resource to reduce the risk of *Clostridium difficile* infection through improving cleaning and isolation practices. Toolkit prepared for Ascension Health (>100 hospitals), January 2014.
  5. “Principles of highly reliable care: Improving the culture of culturing: avoiding unnecessary urine cultures in catheterized patients”. An educational resource that addresses the appropriate indications to obtain a urine culture, the risk with indiscriminate use, and the management of positive urine cultures. Toolkit prepared for Ascension Health (>100 hospitals), January 2014.
  6. “Principles of highly reliable care: sepsis”. Comprehensive educational resource that addresses prevention, early identification, and management of sepsis, based on the surviving sepsis campaign. It underscores the importance of collaboration of the different stakeholders, and having effective local teams. Toolkit prepared for Ascension Health (>100 hospitals), August 2013.
  7. “Preventing device-associated infections in hospitals”. Comprehensive educational resource for teams working on reducing risk of infection related to peripheral and central venous catheters. The toolkit underscores the teamwork importance and looking at the different device-risks in a patient centered manner. It also addresses the potential areas for improvement and provides guidance for initiating the efforts. The toolkit was shared with the 71 Ascension Health hospitals. August 2012, updated November 2012.
  8. Comprehensive educational resource to improve the appropriate placement of urinary catheters in the emergency department. This also includes proper insertion technique. The toolkit describes a step-by-step approach to evaluating the reasons and frequency of placement of urinary catheters in the emergency department, implementing a process to reduce unnecessary use, and a process to evaluate success and sustainability. The creation of the toolkit was supported by a grant from Agency for Healthcare Research and Quality (AHRQ). This product will be used for the education of participating US hospitals in the 50 states. June 2011, updated February 2012.
  9. “Placement and Care of Peripheral Intravenous Catheters (PIVs): Improving Compliance with Process Measures to Reduce Harm.” Comprehensive educational resource to improve the appropriate placement and maintenance of peripheral intravenous catheters. This was based on a multidisciplinary effort that

- led to a significant improvement in the processes of insertion and maintenance of the catheters and a reduction in catheter-associated blood stream infections, resulting in a safer patient environment. The detailed toolkit addresses high reliability processes, encourages low risk behavior of healthcare workers, and promotes the use of evidence-based medicine. The toolkit was shared with the 70 Ascension Health hospitals. September 2011.
10. Comprehensive educational resource to evaluate need for urinary catheters, placement, maintenance, and discontinuation of unnecessary urinary catheters. This was a revised version of the one published in 2007 and included the new updated guidelines for urinary catheter utilization. The creation of the revised toolkit was supported by a grant from Agency for Healthcare Research and Quality (AHRQ). This product will be used for the education of 100 US hospitals in 10 different states. November 2010.
  11. Comprehensive educational resource to evaluate need for urinary catheters, placement, maintenance, and discontinuation of unnecessary urinary catheters. The material has been reproduced electronically and distributed to more than 60 Ascension Health Hospitals, February 2007.
  12. Educational resource to reduce central line related blood stream infection. This included a lecture, a checklist for appropriate steps used in line placement and references. All were included on compact disc and distributed to all Ascension Health hospitals, 2004.
  13. Web-based Infection Control Resident Physician Orientation Course including Isolation Precautions, Bloodborne Pathogens, Hand Hygiene, Immunization of Health Care Workers, Intravenous Catheters, Human Immunodeficiency Virus Testing, Tuberculosis Control Plan, and Surgical Prophylaxis, April 2004.

**Publications:** (asterisk behind trainees names)

1. Original Observations:

1. Bardossy AC, Williams T, Jones K, Szpunar S, Zervos M, Alangaden G, Reyes K, Fakh MG. Culturing Practices and the Care of the Urinary Catheter in Reducing NHSN-Defined Catheter-Associated Urinary Tract Infections: the Tale of Two Teaching Hospitals. *Infect Control Hosp Epidemiol* 2018; 39(12):1494-1496. doi: 10.1017/ice.2018.251 [PMID 30303048].
2. Manning ML, Septimus EJ, Dodds ES, Cosgrove SE, Fakh MG, Schweon SJ, Myers FE, Moody JA. Antimicrobial stewardship and infection prevention—leveraging the synergy: A position paper update. *Am J Infect Control* 2018; 46: 364-8 [PMID29592832].
3. Manning ML, Septimus EJ, Dodds ES, Cosgrove SE, Fakh MG, Schweon SJ, Myers FE, Moody JA. Antimicrobial stewardship and infection prevention—leveraging the synergy: A position paper update. *Infect Control Hosp Epidemiol* 2018; 39(4): 467-472 [PMID29576043].
4. Fakh MG, Battjes R, Sturm L, Jones L, Groves C, Bufalino A, Hendrich A. Hospital Onset *Staphylococcus aureus* Bacteremia is a Better Measure than MRSA Bacteremia in Assessing Infection Prevention: Evaluation of 50 US Hospitals. *Infect Control Hosp Epidemiol* 2018;39(4); 476-478 [PMID29429428].
5. Giuliano C, Binienda J, Kale-Pradhan PB, Fakh MG. “I Never Would Have Caught That Before”: Pharmacist Perceptions of Using Clinical Decision Support

- for Antimicrobial Stewardship in the United States. *Qualitative Health Research* 2018; 28(5): 745-755 [PMID29334865].
6. Greene MT, Fakh MG, Watson SR, Ratz D, Saint S. Reducing Inappropriate Urinary Catheter Use in the Emergency Department: Comparing 2 Collaborative Structures. *Infect Control Hosp Epidemiol* 2018; 39 (1): 77-84 [PMID29249212].
  7. Fakh MG, Groves C, Bufalino A, Sturm LK, Hendrich AL. Definitional Change in NHSN CAUTI Was Associated with an Increase in CLABSI Events: Evaluation of a Large Health System. *Infect Control Hosp Epidemiol* 2017; 38: 685-689 [PMID 28330520].
  8. Khatib R, Johnson LB, Fakh MG, Reiderer K, Briski L. Current trends in candidemia and species distribution among adults: *Candida glabrata* surpasses *C. albicans* in diabetic patients and abdominal sources. *Mycoses*, online July 12, 2016 [PMID 27402377].
  9. Fakh MG, Skierczynski B, Bufalino A, Groves C, Roberts P, Heavens M, Hendrich A, Haydar Z. Taking Advantage of Public Reporting: An Infection Composite Score to Assist Evaluating Hospital Performance for Infection Prevention Efforts. *Am J Infect Control* 2016; 44: 1578-81 [PMID27645403].
  10. Saint S, Greene MT, Krein SL, Rogers MAM, Ratz D, Fowler KE, Edson BS, Watson SR, Lucas BM, Masuga M, Faulkner K, Gould CV, Battles J, Fakh MG. A program to reduce catheter-associated urinary tract infection in acute care. *N Engl J Med* 2016; 374:2111-2119 [PMID 27248619].
  11. Greene MT, Ratz D, Meddings J, Fakh MG, Saint S. Potential Misclassification of Urinary Tract-Related Bacteremia Upon Applying the 2015 Catheter-Associated Urinary Tract Infection Surveillance Definition From the National Healthcare Safety Network. *Infect Control Hosp Epidemiol*, 2016;37(4):469-71. [PMID 26778287]
  12. Jones K, Sibai J\*, Battjes R, Fakh MG. How and When Nurses Collect Urine Cultures on Catheterized Patients: A Survey of 5 Hospitals. *Am J Infect Control*, 2016; 44: 173-176. [PMID 26492819]
  13. Fakh MG, Heavens M, Hendrich A. Ebola as a Test for Emerging Pathogen Preparedness: the Critical Role of Health Systems in Ensuring Support. *Infect Control Hosp Epidemiol* 2015; 36: 632-633. [PMID 25994324]
  14. Khatib R, Simeunovic G\*, Sharma M, Fakh MG, Johnson LB, Briski L, Lebar, W. Blood culture series benefit may be limited to selected clinical conditions: time to reassess. *Clin Microbiol Infect.* 2015 Apr; 21(4): 332-6. [PMID 25658519].
  15. Fisman D, Patrozou E, Carmelli Y, Perencevich E, Tuite AR, Mermel L, Quirós R, Vilches V, Korman T, Miyakis S, Boutlis C, Reid A, Gales A, Schandert L, Affini R, Machado A, Marra A, Camargo L, Edmond M, Correa L, Sukiennik T, Behar P, Girão E, Guerra C, Brites C, McGeer A, Smith S, El Kholy A, Plakias G, Tacconelli E, Honda H, Kluytmans J, Apisarnthanarak A, Fakh MG, Marschall J, Russo A. Geographical Variability in the Likelihood of Bloodstream Infections Due to Gram-Negative Bacteria: Correlation with Proximity to the Equator and Health Care Expenditure. *PLoS One.* 2014; 9(12): e114548. [PMCID: PMC4270641]
  16. Marshall J, Mermel LA, Fakh M, Hadaway L, Kallen A, O'Grady NP, Pettis AM, Rupp ME, Sandora T, Maragakis LL, Yokoe DS. Strategies to prevent

- central-line associated bloodstream infections in acute care hospitals: 2014 update. *Infect Control Hosp Epidemiol* 2014; 35: 753-771. [PMID 24915204].
17. Greene MT, Fakh MG, Fowler K, Meddings J, Ratz D, Safdar N, Olmsted RN, Saint S. Regional Variation in Urinary Catheter Use and Catheter-Associated Urinary Tract Infection: Results from a National Collaborative. *Infect Control Hosp Epidemiol*, 2014; 35(S3): S99-S106. [PMID 25222905]
  18. Fakh MG, Krein SL, Edson B, Watson SR, Battles JB, Saint S. Engaging healthcare workers to prevent catheter-associated urinary tract infection and avert patient harm. *Am J Infect Control* 2014; 42: S223-S229. [PMID 25239714]
  19. Marchaim D, Pogue J, Tzuman O, Hayakawa K, Lephart P, Salimnia H, Painter T, Zervos M, Johnson L, Perri M, Hartman P, Thyagarajan R, Major S, Goodell M, Fakh MG, Washer L, Newton D, Malani A, Wholehan J, Mody L, Kaye K. Minimal Inhibitory Concentrations (MICs) of Tigecycline in Gram-negative bacilli: Major Variations as a Function of Testing Method. *J Clin Microbiol*, published ahead of print March 5, 2014 [PMID 24599978].
  20. Fakh MG, Heavens M, Grotemeyer J, Szpunar SM, Groves C, Hendrich A. Avoiding potential harm by improving appropriateness of urinary catheter use in 18 emergency departments. *Ann Emerg Med* 2014; 63: 761-768 [PMID 24656760].
  21. Fakh MG, George C, Edson B, Goeschel C, Saint S. Implementing a National Program To Reduce Catheter-Associated Urinary Tract Infection: A Quality Improvement Collaboration of State Hospital Associations, Academic Medical Centers, Professional Societies, and Governmental Agencies. *Infect Control Hosp Epidemiol*, 2013; 34(10):1048-54 [PMID 24018921].
  22. Al-Qas Hanna F\*, Sambirska O, Iyer S\*, Szpunar S, Fakh MG. Clinician Practice and the National Healthcare Safety Network Definition for the Diagnosis of Catheter-Associated Urinary Tract Infection. *Am J Infect Control* 2013; 41(12): 1173-7 [PMID 24011555].
  23. Fakh MG, Heavens M, Ratcliffe C, Hendrich A. First Step to Reducing Infection Risk as a System: Evaluation of Infection Prevention Processes for 71 Hospitals. *Am J Infect Control* 2013; 41(11): 590-4. [PMID 23932829].
  24. Fakh MG, Rey JE, Pena ME, Szpunar S, Saravolatz L. Sustained Reductions in Urinary Catheter Use over 5 years: the Bedside Nurses View Themselves Responsible for Evaluation of Catheter Need. *Am J Infect Control* 2013; 41(3): 236-9. [PMID 22980514].
  25. Khatib R, Sharma M, Iyer S\*, Fakh MG, Obeid KM, Venugopal A, Fishbain J, Johnson LB, Segireddy M\*, Jose J\*, Riederer K. Decreasing incidence of *Staphylococcus aureus* bacteremia over 9 years: greatest decline in community-associated methicillin-susceptible and hospital-acquired methicillin-resistant isolates. *Am J Infect Control* 2013; 41(3): 210-3. [PMID 23040608]
  26. Guharoy R, Noviasky J, Haydar Z, Fakh MG, Hartman C. Compounding Pharmacy Conundrum: “we cannot live without them but we cannot live with them” according to the present paradigm. *Chest* 2013; 143(4):896-900. [PMID 23412546].
  27. Fakh MG, Jones K, Rey J, Takla R, Szpunar S, Brown K, Boelstler A, Saravolatz L. Peripheral Venous Catheter Care in the Emergency Department: Education and Feedback Lead to Marked Improvements. *Am J Infect Control* 2013; 41: 531-536. [PMID 23219672].



28. Saravolatz L, Pawlak J, Johnson L, Bonilla H, Saravolatz L II, Fakh M, Fugelli A, Olsen W. In-vitro Activity of LTX-109 a Synthetic Antimicrobial Peptide against MRSA, VISA, VRSA, Daptomycin-non-susceptible *Staphylococcus aureus* (DNSSA) and Linezolid-non-susceptible SA (LNSSA). *Antimicrob Agents Chemother*, 2012, 56(8): 4478-82. [PMID 22585222].
29. Sanchez KT\*, Obeid K, Fakh MG, Khatib R. Delayed peripheral venous catheter (PVC)-associated *Staphylococcus aureus* bacteremia (SAB): onset  $\geq$  24 hours after catheter removal. *Scand J Infect Dis* 2012; 44 (7): 551-4. [22497345].
30. Fakh MG, Jones K, Rey JE, Berriel-Cass D, Kalinicheva T, Szpunar S, Saravolatz LD. Sustained Improvements in Peripheral Venous Catheter Care in Non-Intensive Care Units: A Quasi-experimental Controlled Study of Education and Feedback. *Infect Control Hosp Epidemiol* 2012; 33 (5): 449-455. [PMID 22476270].
31. Fakh MG, Watson SR, Greene MT, Kennedy EH, Olmsted R, Krein SL, Saint S. Reducing inappropriate urinary catheter use: a state wide effort. *Arch Intern Med*, 2012; 172: 255-60. [PMID 22231611].
32. Daas H, Sanchez K, Khatib R, Kanwar M, Brar N, Fakh MG. Time to antibiotics for community acquired pneumonia: errors in diagnosis. *Infect Dis Clin Pract*, 2012; 20: 58-62.
33. Dyc N, Pena ME, Shemes SP, Rey JE, Szpunar SM, Fakh MG. The Effect of Resident Peer-to-Peer Education on Compliance with Urinary Catheter Placement Indications in the Emergency Department. *Postgrad Med J*, 2011; 87: 814-8. [PMID 22039221].
34. Fakh MG, Greene MT, Kennedy EH, Meddings JA, Krein SL, Olmsted RN, Saint S. Introducing a Population-Based Outcome Measure to Evaluate the Effect of Interventions to Reduce Catheter-Associated Urinary Tract Infection. *Am J Infect Control* 2012; 40 (4): 359-64. [PMID 21868133].
35. Khatib R, Jose J, Musta A, Sharma M, Fakh MG, Johnson LB, Riederer K, Shemes S. Relevance of vancomycin-intermediate susceptibility and heteroresistance in methicillin-resistant *Staphylococcus aureus* bacteraemia. *J Antimicrob Chemother* 2011; 66(7): 1594-9. [PMID 21525024].
36. Fakh MG, Shemes S, Pena ME, Dyc N, Rey J, Szpunar SM, Saravolatz LD. Urinary Catheters in the Emergency Department: Very Elderly Women Are at High Risk for Unnecessary Utilization. *Am J Infect Control* 2010; 38: 683-8. [PMID 21034978].
37. Fakh MG, Pena ME, Shemes S, Rey J, Berriel-Cass D, Szpunar SM, Savoy-Moore RT, Saravolatz LD. Effect of Establishing Guidelines on Appropriate Urinary Catheter Placement. *Acad Emerg Med* 2010; 17:337–340. [PMID 20370769].
38. Al Raiy B\*, Fakh MG, Bryan-Nomides N, Hopfner D Riegel E, Nenninger T, Rey J, Szpunar S, Kale P, Khatib R. Peripherally Inserted Central Venous Catheters in the Hospital Setting: a Safe Alternative to High Risk Short-Term Central Venous catheters. *Am J Infect Control* 2010;38:149-53. [PMID 19836854].
39. Saint S, Olmsted RN, Fakh MG, Kowalski CP, Watson SR, Sales AE, Krein SL. Translating Hospital-Acquired Urinary Tract Infection Prevention Research into Practice via the “Bladder Bundle”: How Researchers Can Collaborate With

- Statewide Patient Safety Organizations. *Jt Comm J Qual Patient Saf* 2009; 35: 449-455. [PMID 19769204].
40. Sharma M, Fakh MG, Berriel-Cass D, Meisner S, Saravolatz L, Khatib R. Harvest Surgical Site Infection Following Coronary Artery Bypass Grafting: Risk Factors, Microbiology and Outcomes. *Am J Infect Control* 2009; 37 (8): 653-7. [PMID 19375819].
  41. Khatib R, Johnson L, Fakh MG, Ganga R\*, Riederer K. Persistent *Staphylococcus aureus* bacteremia: incidence and outcome trends over time. *Scand J Infect Dis.* 2009; 41(1):4-9.
  42. Ganga R\*, Riederer K, Sharma M, Fakh MG, Johnson LB, Shemes S, Khatib R. The role of SCCmec type in the outcome of *Staphylococcus aureus* bacteremia in a single medical center. *J Clin Microbiol.* 2009;47(3):590-5. [PMID 19144813].
  43. Fakh MG, Dueweke C, Meisner S, Berriel-Cass D, Savoy-Moore R, Brach N, Rey J, DeSantis L, Saravolatz LD. Effect of Nurse-Led Multidisciplinary Rounds on Reducing Unnecessary Use of Urinary Catheterization in Hospitalized Patients. *Infect Control Hosp Epidemiol* 2008;29: 815–819. [PMID 18700831].
  44. Nazeri A\*, Fakh MG. The Effect of Infectious Diseases Consultation on the Use of Vancomycin in Patients with Two Positive Blood Cultures for Coagulase Negative *Staphylococci*. *Infect Dis Clin Pract* 2008; 16 (1): 20-22.
  45. Al Raiy B\*, Jahamy H\*, Fakh MG, Khatib R. Clinicians approach to positive urine culture in the intensive care units (ICU). *Infect Dis Clin Pract* 2007; 15: 382-384.
  46. Zafar U\*, Johnson LB, Hanna M\*, Riederer K, Sharma M, Fakh MG, Thirumoorthi MC, Farjo R, Khatib R. The prevalence of nasal colonization among patients with community-associated methicillin-resistant *Staphylococcus aureus* infection and spread among household contacts. *Infect Control Hosp Epidemiol* 2007; 28: 966-969. [PMID 17620245].
  47. Kanwar M\*, Brar N\*, Khatib R, Fakh MG. Misdiagnosis of community-acquired pneumonia and the 4-hour antibiotic administration rule. *Chest* 2007; 131:1865-1869. [PMID 17400668].
  48. Fakh MG, Sharma M, Khatib R, Berriel-Cass D, Meisner S, Harrington S, Saravolatz L. An increase in sternal surgical site infection (SSI) following coronary artery bypass (CABG) grafting: a marker of higher severity of illness. *Infect Control Hosp Epidemiol* 2007; 28:655-660. [PMID 17520536].
  49. Berriel-Cass D, Adkins F, Jones P, Fakh MG. Eliminating nosocomial infections at Ascension Health: preventing catheter-related blood stream infections and ventilator-associated pneumonia. *Jt Comm J Qual Patient Saf* 2006; 32: 612-20. [PMID 17120920].
  50. Khatib R, Johnson LB, Fakh MG, Riederer K, Khosrovaneh A\*, Shamse Tabriz M\*, Sharma M, Saeed S\*. Persistence of *Staphylococcus aureus* bacteremia: incidence, characteristics of patients and outcome. *Scand J Infect Dis* 2006: 38 (1): 7-14.
  51. Khatib R, Saeed S\*, Sharma M, Riederer K, Fakh MG, Johnson LB. The impact of initial antibiotic choice and delayed appropriate treatment on the outcome of *Staphylococcus aureus* bacteremia. *Eur J Clin Microbiol Infect Dis* 2006; 25 (3): 181-5. [PMID 16505987].
  52. Saeed S\*, Fakh MG, Riederer K, Shah AR\*, Khatib R. Inter and intra-institutional transmission of a strain of *Acinetobacter baumannii* detected by

- molecular analysis: comparison of pulsed-field gel electrophoresis and repetitive sequence-based polymerase chain reaction. *Infect Control Hosp Epidemiol* 2006; 27: 981-983. [PMID 16941328].
53. Fasih MG, Berschback J, Shalauta-Juzych N, Massanari RM. Compliance of Resident and Staff Physicians with IDSA Guidelines for the Diagnosis and Treatment of Streptococcal Pharyngitis. *Infect Dis Clin Pract* 2006; 14: 84-88.
  54. Fasih MG, Enayet I\*, Minnick S, Saravolatz L. A Web-Based Course in Infection Control for Physicians in Training: an Educational Intervention. *Infect Control Hosp Epidemiol* 2006; 27 (7): 704-8. [PMID 16807845].
  55. Khatib R, Riederer K, Saeed S\*, Johnson LB, Fasih MG, Sharma M, Tabriz MS\*, Khosrovaneh A\*. Time to positivity in *Staphylococcus aureus* bacteremia: possible correlation with the source and outcome of infection. *Clin Infect Dis* 2005; 41: 594-8. [PMID 16080079].
  56. Khosrovaneh A\*, Riederer K, Saeed S\*, Tabriz MS\*, Shah AR\*, Hanna MM\*, Sharma M, Johnson LB, Fasih MG, Khatib R. Frequency of reduced vancomycin susceptibility and heterogeneous subpopulation in persistent or recurrent methicillin-resistant *Staphylococcus aureus* bacteremia. *Clin Infect Dis* 2004; 38:1328-30. [PMID 15127350].
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## 2. Review Articles:

1. Advani S, Fasih MG. The Evolution of Catheter-Associated Urinary Tract Infection (CAUTI): Is it Time for More Inclusive Metrics? *Infect Control Hosp Epidemiol*, in press.
2. Vaughn V, Szymczak J, Newton D, Fasih MG. Addressing the overuse of cultures to optimize patient care. *Ann Intern Med*, in press.
3. Fasih MG, Gould CV, Trautner BW, Meddings J, Olmsted RN, Krein SL, Saint S. Beyond infection: device utilization as a performance measure for urinary catheter harm. *Infect Control Hosp Epidemiol* 2016; 37: 327-333. [PMID 26894622]
4. Meddings J, Rogers M, Krein SL, Fasih MG, Olmsted RN, Saint S. Reducing Unnecessary Urinary Catheter Use and Other Strategies to Prevent Catheter-Associated Urinary Tract Infection: An Integrative Review. *BMJ Qual Saf*, 2014;23(4):277-289. [PMID 24077850].
5. Fasih MG, Saravolatz L. Treatment of *Staphylococcus aureus* pneumonia. *Curr Treat Opt Infect Dis* 2003; 5: 137-42.
6. Sharma M\*, Khatib R, Fasih M. Clinical characteristics of necrotizing fasciitis caused by group G streptococcus: case report and review of the literature. *Scand J Infect Dis* 2002; 34(6): 468-71. [PMID 12160177].

## 3. Case Reports:

1. Sharma M\*, Khatib R, Jones BA, Fakh MG. *Cryptococcus neoformans* myositis without dissemination: a case report and a review of the literature. *Scand J Infect Dis* 2002; 34(11): 858-9. [PMID 12578163].
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  3. Fakh MG, Barden GE, Oakes CA, Berenson CS. First reported case of *Aspergillus granulosis* infection in a cardiac transplant patient. *J Clin Microbiol* 1995; 33(2): 471-73. [PMID 7714209].
4. Correspondence:
1. Fakh MG, Khatib R. Improving the Culture of Culturing: Critical Asset to Antimicrobial Stewardship. *Infect Control Hosp Epidemiol* 2017; 38 (3): 377-379 [PMID 28031074].
  2. Fakh MG, Guharoy R, Hendrich A, Haydar Z. Health Systems Can Play a Pivotal Role in Supporting Antimicrobial Stewardship. *Clin Infect Dis* 2016; 63 (10): 1391 [PMID 27578817].
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  4. Guharoy R, Noviasky J, Haydar Z, Fakh MG, Hartman C. Response to letter. Compounding Pharmacy Conundrum: “we cannot live without them but we cannot live with them” according to the present paradigm. *Chest* 2013; 144(2):717-8. [PMID 23918133].
  5. Fakh MG, Khatib R, Kanwar M, Brar N. Timing of antibiotics and community-acquired pneumonia. *Chest* 2007; 132: 2060-1. [PMID 18079251].
  6. Khatib R, Fakh MG. Optimal criteria for the diagnosis of Legionella infection. *Clin Infect Dis* 2003; 36: 384. [PMID 12539084].
5. Book Chapter:
- Fakh M., MacArthur S., & Dembry L. (2018). Quality Improvement in Healthcare Epidemiology. In E. Lautenbach, P. Malani, K. Woeltje, J. Han, E. Shuman, & J. Marschall (Eds.), *Practical Healthcare Epidemiology* (pp. 30-40). Cambridge: Cambridge University Press. Doi: 10.1017/9781107153165.006
  - Sharma M, Fakh MG. Urethritis and Cystitis. In: Decision support in medicine *Clinical Decision Support* program, 2016. Available at <https://www.decisionsupportinmedicine.com/>
  - Fakh M. Urethritis and Cystitis. In: Decision support in medicine *Clinical Decision Support* program, 2013. Available at <https://www.decisionsupportinmedicine.com/> .
  - Meddings J, Krein SL, Fakh MG, Olmsted RN, Saint S. Reducing Unnecessary Urinary Catheter Use and Other Strategies To Prevent Catheter-Associated Urinary Tract Infections: Brief Update Review (Chapter 9), pages 73-87. In: Shekelle PG, Wachter RM, Pronovost PJ, Schoelles K, McDonald KM, Dy SM, Shojania K, Reston J, Berger Z, Johnsen B, Larkin JW, Lucas S, Martinez K, Motala A, Newberry SJ, Noble M, Pfoh E, Ranji SR, Rennke S, Schmidt E, Shanman R, Sullivan N, Sun F, Tipton K, Treadwell JR, Tsou A, Vaiana ME, Weaver SJ, Wilson R, Winters BD. Making Health Care Safer II: An Updated Critical Analysis of the Evidence for Patient Safety Practices. Comparative Effectiveness Review No. 211. (Prepared by the Southern California-RAND Evidence-based Practice Center under Contract No. 290-2007-10062-I.) AHRQ

Publication No. 13-E001-EF. Rockville, MD: Agency for Healthcare Research and Quality. March 2013. [www.ahrq.gov/research/findings/evidence-based-reports/ptsafetyuptp.html](http://www.ahrq.gov/research/findings/evidence-based-reports/ptsafetyuptp.html) .

- Berriel-Cass D, Adkins F, Jones P, Fakh MG. Eliminating Nosocomial Infections at Ascension Health. In: Infection Prevention and Control: Current research and Practice. Chicago: Joint Commission Resources 2007: 9-24.

#### 6. Educational Material:

1. Resident Physicians as Champions in Preventing Device-Associated Infections: Focus on Reducing Catheter-Associated Urinary Tract Infections. AHRQ Safety Program for Reducing CAUTI in Hospitals. AHRQ Pub No. 15-0073-6-EF, September 2015. Shared at a national level with US hospitals.
2. “Resident Physicians as Champions in Preventing Device-Associated Infections: Focus on Reducing Catheter-Associated Urinary Tract Infections (CAUTI)”. Prepared with the support of On the CUSP: Stop CAUTI project, January 2015.
3. “Principles of highly reliable care: Reducing *Clostridium difficile* infection”. A resource to reduce the risk of *Clostridium difficile* infection through improving cleaning and isolation practices. Toolkit prepared for Ascension Health (>100 hospitals), January 2014.
4. Fakh, MG. “Principles of highly reliable care: Improving the culture of culturing: avoiding unnecessary urine cultures in catheterized patients”. An educational resource that addresses the appropriate indications to obtain a urine culture, the risk with indiscriminate use, and the management of positive urine cultures. Toolkit prepared for Ascension Health (>100 hospitals), January 2014.
5. Fakh, MG. “Principles of highly reliable care: sepsis”. Comprehensive educational resource that addresses prevention, early identification, and management of sepsis, based on the surviving sepsis campaign. It underscores the importance of collaboration of the different stakeholders, and having effective local teams. Toolkit prepared for Ascension Health (>100 hospitals), August 2013.
6. Fakh MG, Jones K, Battjes R. Appropriate Urinary Catheter Use in the Emergency Department: a Quick Reference Guide. The guide describes implementing a process in the ED to reduce unnecessary urinary catheter use. March 2013. Available at <http://www.onthecuspstophai.org/on-the-cuspstop-cauti/toolkits-and-resources/emergency-department-improvement-intervention/> .
7. Fakh MG. “Preventing device associated infections”. Comprehensive educational resource for teams working on reducing risk of infection related to urinary catheters, central venous catheters, and ventilators. The toolkit underscores the teamwork importance and looking at the different device-risks in a patient centered manner. It also addresses the potential areas for improvement and provides guidance for initiating the efforts. The toolkit was shared with the 71 Ascension Health hospitals. August 2012, updated November 2012.
8. Fakh MG, Saint S, Manojlovich M, Krein S, Olmsted R. Appropriate urinary catheter placement in the emergency department. This also includes proper insertion technique. The toolkit describes a step-by-step approach to evaluating the reasons and frequency of placement of urinary catheters in the emergency department, implementing a process to reduce unnecessary use, and a process to evaluate success and sustainability. The creation of the toolkit was supported by a grant from Agency for Healthcare Research and Quality (AHRQ). This product

- will be used for the education of participating US hospitals in the 50 states. (June 2011, updated February 2012). Copy available at <http://catheterout.org/>.
9. Fasih MG, Jones K, Rey JE. "Placement and Care of Peripheral Intravenous Catheters (PIVs): Improving Compliance with Process Measures to Reduce Harm." Comprehensive educational resource to improve the appropriate placement and maintenance of peripheral intravenous catheters. This was based on a multidisciplinary effort that led to a significant improvement in the processes of insertion and maintenance of the catheters and a reduction in catheter-associated blood stream infections, resulting in a safer patient environment. The detailed toolkit addresses high reliability processes, encourages low risk behavior of healthcare workers, and promotes the use of evidence-based medicine. The toolkit was shared with the 70 Ascension Health hospitals. (September 2011)
  10. Fasih MG, Saint S, Krein S, Olmsted R. Nurse-initiated removal of unnecessary urinary catheters in the non-intensive care units. Comprehensive educational resource to evaluate need for urinary catheters, placement, maintenance, and discontinuation of unnecessary urinary catheters. This was a revised version of the one published in 2007 and included the new updated guidelines for urinary catheter utilization. The creation of the revised toolkit was supported by a grant from Agency for Healthcare Research and Quality (AHRQ). This product will be used for the education of 100 US hospitals in 10 different states, November 2010. Copy available at <http://catheterout.org/>.
  11. Educational presentation (with narration) for physicians to promote high reliability in St John Providence Health System. This includes a description of the 5 principles of High Reliability Organizations, errors and tools to reduce the risk of their occurrence. This also included conducting "train the trainer" sessions for physician champions who will train their colleagues. This educational tool was distributed to Ascension health hospitals in Michigan. (June 2011)
  12. Creation and update of a webpage on hospital intranet to access more than 50 lectures by infectious diseases faculty, in addition to references in general infectious diseases, bacterial, viral, mycobacterial, parasitic, and fungal infections, and infection control, 2003-2010.
  13. Dueweke C, Meisner S, Berriel-Cass D, Fasih MG. Promptly remove unnecessary urinary catheters: foley catheter initiative. Comprehensive educational resource to evaluate need for urinary catheters, placement, maintenance, and discontinuation of unnecessary urinary catheters. The material has been reproduced electronically and distributed to more than 60 Ascension Health Hospitals, February 2007.
  14. Fasih MG, Berriel-Cass D, Kasom B. Creation of an educational resource to reduce central line related blood stream infection. This included a lecture, a check-list for appropriate steps used in line placement and references. All were included on compact disc and distributed to all Ascension Health hospitals, 2004.
  15. Creation of a web-based Infection Control Resident Physician Orientation Course including Isolation Precautions, Bloodborne Pathogens, Hand Hygiene, Immunization of Health Care Workers, Intravenous Catheters, Human Immunodeficiency Virus Testing, Tuberculosis Control Plan, and Surgical Prophylaxis, April 2004.
  16. Michigan Antibiotic Resistance Reduction coalition provider slides for Upper Respiratory Infections: case studies and a summary of guidelines, 2001.

17. The impact of an educational brochure and video on the use of antibiotics for upper respiratory infections in an integrated health care system. The study conducted from February to September 2000. Presented at Symposium 15, OJ/OC Health Management and Policy, Ann Arbor October 2000.

#### 7. Educational Websites:

- <http://catheterout.org/> : an educational website that provides comprehensive information related to urinary catheters, their indications, complications, and tools to reduce risk related to these catheters. Authors: Sanjay Saint, Sarah Krein, Christine Kowalski, Mohamad Fasih, Jennifer Meddings, Russ Olmsted, Milisa Manojlovich, Jane Forman, Andy Hickner. (2011-)

#### Published Abstracts (\*denotes trainees):

1. Fasih M, Huang R, Bufalino A, Sturm L, Hendrich A, Haydar Z. Introducing the Population Standardized Infection Ratio (SIR): A Metric that Marries the Device SIR to the Standardized Utilization Ratio (SUR). Accepted for presentation at ID Week 2018, San Francisco, CA, October 3-7, 2018 (Abstract 2158).
2. Sturm L, Eschenbacher L, Aziz S, Fasih MG. A Sterile Clean Room Mitigation Plan for the Infection Preventionist. Presented at the APIC Annual Conference, Minneapolis, MN, June 2018. American Journal of Infection Control 46(6): S15-S16. DOI: 10.1016/j.ajic.2018.04.030.
3. Fasih MG, Battjes R, Sturm L, Jones L, Groves C, Bufalino A, Hendrich A. Introducing Hospital Onset Bloodstream Infection (HOBSI) as a Tool to Evaluate Infection Prevention: Assessment of 51 US Hospitals (presentation # 476). Presented at ID Week 2017, San Diego, CA, October 2017.
4. Fasih MG, Battjes R, Sturm L, Jones L, BS, Groves C, Bufalino A, Hendrich A. Hospital Onset *Staphylococcus aureus* Bacteremia is a Better Measure than MRSA Bacteremia in Assessing Infection Prevention: Evaluation of 51 US Hospitals (presentation # 478). Presented at ID Week 2017, San Diego, CA, October 2017.
5. Guharoy R, Vann R, Miller S, Groves C, Sturm L, O'Neil K, Hendrich A, Fasih MG. Protecting Our Most Vulnerable: Why Antimicrobial Stewardship for Senior Living is a Must – Results from Four Large Senior Living Centers. Presented at ID Week 2017, San Diego, CA, October 2017.
6. Daragjati F, Silver D, Guharoy R, Groves C, Sebastian D, Fasih MG. Variation in Reporting of Penicillin Allergy and its Consequences: an Evaluation of 13 Hospitals. Presented at ID Week 2017, San Diego, CA, October 2017.
7. Guharoy R, Daragjati F, Groves C, Sebastian D, Seggerman J, Bufalino A, Hendrich A, Fasih MG. Impact of System-wide Adoption of CDC Core Elements on Antimicrobial Use and *Clostridium difficile* Infection in a Large Health System. Presented at ID Week 2017, San Diego, CA, October 2017.
8. Sebastian D, Daragjati F, Guharoy R, Fasih MG. Clinical Decision Support Metrics for Evaluating Antimicrobial Stewardship in a Large Health System (Abstract 314). Presented at the SHEA Spring 2017 conference, St Louis, Missouri, March 2017.
9. Sturm LK, Flood M, Groves C, Garbo J, Fasih MG. Bundled Interventions and Feedback on Performance Lead to Reductions of Colon and Hysterectomy

- Surgical Site Infections in a Large Health System. Presented at the APIC 44<sup>th</sup> Annual Conference in Portland, Oregon on June 14 - 16, 2017.
10. Battjes RL, Jones L, Groves C, Fakh MG. An Innovative Approach to Evaluate Hospital and System Improvements in Infection Prevention: Development of a Dynamic Bacteremia Dashboard. Presented at the APIC 44<sup>th</sup> Annual Conference in Portland, Oregon on June 14 - 16, 2017.
  11. Khatib R, Johnson LB, Fakh M, Riederer K, Briski L, Labalo V. Bacteremia: Changing Microbiology Over Six Years (Abstract #1093). Presented at ID Week 2016, New Orleans, LA, October 2016.
  12. Khatib R, Johnson LB, Fakh M, Riederer K, Briski L. Current Trends in Candidemia and Species Distribution Among Adults: *Candida glabrata* Surpasses *C. albicans* in Diabetic Patients and Abdominal Sources. (Abstract #1596). Presented at ID Week 2016, New Orleans, LA, October 2016.
  13. Guharoy R, Seggerman J, Groves C, Daragjati F, Leffler D, Sebastian D, Fakh MG. Anti-MRSA Agents Use in the Era of Active Antimicrobial Stewardship Programs: Is there a Difference Based on Hospital Size? (Abstract #971). Presented at ID Week 2016, New Orleans, LA, October 2016.
  14. Daragjati F, Guharoy R, Groves C, Sebastian D, Fakh MG. What Antimicrobial Stewardship Interventions Are We Focusing on? The Experience of a Large Healthcare System. (Abstract #969). Presented at ID Week 2016, New Orleans, LA, October 2016.
  15. Guharoy R, Fakh MG, Seggerman J, Daragjati F, Groves C, Smethers K, Sebastian D, Leffler D, Hendrich A. Universal Implementation of Antimicrobial Stewardship Programs Leads to Reduction in Antibiotic Use and Cost Savings: Pilot Results from a Large U.S. Health System (Abstract #1021). Presented at ID Week 2016, New Orleans, LA, October 2016.
  16. Fakh MG, Groves C, Bufalino A, Heavens M, Hendrich A. CAUTI: How Changing Your Definition May Create a CLABSI Epidemic (Abstract #520). Presented at the SHEA Spring 2016 conference, Atlanta, Georgia, May 2016.
  17. Guharoy G, Dill M, Smethers K, Daragjati F, Fakh MG. Impact of clinical decision support tool on antimicrobial stewardship in a large health system (Abstract #7924). Presented at the SHEA Spring 2016 conference, Atlanta, Georgia, May 2016.
  18. Bardossy AC\*, Williams T, Jones K, Szpunar S, Xin Y, Zervos M, Alangaden G, Reyes K, Fakh MG. Preventing CAUTI in the ICUs: Why Culturing Practices Trump the Effect of Device Care (Abstract #502). Presented at the SHEA Spring 2016 conference, Atlanta, Georgia, May 2016.
  19. Bardossy AC\*, Williams T, Jones K, Szpunar S, Xin Y, Zervos M, Alangaden G, Reyes K, Fakh MG. How Good Are We at Maintaining Our Devices in the ICUs? A View of Two Tertiary Care Teaching Centers (Abstract #509). Presented at the SHEA Spring 2016 conference, Atlanta, Georgia, May 2016.
  5. Fakh MG, Heavens M, Grotemeyer J, Hendrich A. The Power of a System: Addressing Catheter-Associated Urinary Tract Infections (CAUTI) in Intensive Care units (presentation #296). Presented at ID Week 2015, San Diego, CA, October 2015.
  6. Guharoy R, Fakh MG, Seggerman J, Smethers K, Djargati F, Heavens M, Hendrich A. Impact of a Dashboard to Improve Antimicrobial Stewardship in the



- Largest Not-For-Profit Healthcare System in the United States (presentation #1411). Presented at ID Week 2015, San Diego, CA, October 2015.
7. Fakh MG, Bardossy AC, Williams T, Reyes K, Zervos M, Minnick S, Hilu R, Edhayan E, El-Kateb M, Szpunar S, Jones K, Saravolatz L. How Good Are Medical and Surgical Residents at Addressing Urinary Catheter Risk? A Survey of 2 Large Teaching Hospitals (presentation #291). Presented at ID Week 2015, San Diego, CA, October 2015.
  8. Fakh MG, Bardossy AC, Williams T, Hilu R, Reyes K, Zervos M, Hopfner D, El-Kateb M, Edhayan E, Szpunar S, Minnick S, Saravolatz L. From the Central Line to the Ventilator: Do Resident Physicians Know and Practice Mitigating Risk? (presentation #270). Presented at ID Week 2015, San Diego, CA, October 2015.
  9. Fakh MG, Jones K, Edhayan E, Bardossy AC, Williams T, Reyes K, Hilu R, Zervos M, El-Kateb M, Szpunar S, Battjes R, Minnick S, Saravolatz L. Improving the Culture of Culturing: When Do Resident Physicians Obtain Urine Cultures, and What Do they Do with Them? (presentation #294). Presented at ID Week 2015, San Diego, CA, October 2015.
  10. Guharoy R, Fakh MG, Smethers K, Heavens M, Hendrich A. Right Antibiotic for Right Bug: Impact of Criteria Based Indications on Reduction of Gram Positive Agent Use at a Large Multi-State Health System (presentation #1414). Presented at ID Week 2015, San Diego, CA, October 2015.
  11. Simeunovic G\*, Khatib R, Sharma M, Fakh MG, Johnson LB, Briski L, LeBar W. Excessive Contamination Rate in Blood Culture Obtained Within Two Days After a Prior Contamination: Possible Host Factors (poster 1091). Presented at the 115<sup>th</sup> American Society of Microbiology general meeting, June 2015.
  12. Fakh MG, Skierczynski B, Bufalino A, Roberts P, Groves C, Heavens M, Hendrich A, Haydar Z. Introducing Two Infection Scores to Evaluate Overall Hospital Performance in Infection Prevention Efforts. Presented at the Society for Healthcare Epidemiology of America (SHEA) Spring 2015 meeting, Orlando, FL, May 2015.
  13. Saint S, Greene MT, Krein SL, Rogers MAM, Ratz D, Fowler K, Edson BS, Watson S, Lucas BM, Masuga M, Faulkner K, Gould CV, Battles J, Fakh MG. Preventing Catheter-Associated Urinary Tract Infection in Acute Care Hospitals Across the United States (Abstract 274). Presented at the Society of Hospital Medicine's Annual Meeting, National Harbor, MD, March 2015.
  14. Madigan J, Anderson T, Fakh MG. Reducing the Risk of Bloodborne Pathogen Transmission Associated with Blood Glucose Monitoring in the Hospital Setting. Presented at 2015 APIC annual conference, Nashville, TN, June 2015.
  15. Fakh MG, Greene MT, Krein SL, Rogers MAM, Fowler K, Edson BS, Watson S, Saint S. Preventing Catheter-Associated Urinary Tract Infection in Acute Care Hospitals: Results from a National Collaborative (Presentation 1228). Presented at ID Week 2014, Philadelphia, PA, October 2014.
  16. Guharoy R, Fakh MG, Seggerman J, Bufalino A, Heavens M, Hendrich A. Hospital onset *Clostridium difficile* infection not a predictor of increased antibiotic use in small hospitals: an evaluation of 54 hospitals (Presentation 189). Presented at ID Week 2014, Philadelphia, PA, October 2014.
  17. Guharoy R, Fakh MG, Fraine G, Heavens M, Hendrich A. Evaluating Multidrug Resistance Prevalence and Antimicrobial Stewardship Preparedness in the Largest

- Not-For-Profit Healthcare System in the United States: Taking the First Step to Optimize Antimicrobial Use (Presentation 183). Presented at ID Week 2014, Philadelphia, PA, October 2014.
18. Bagdasarian N, Szpunar S, Battjes R, Shemes S; Jones K, Hopfner D, Fakh MG. NHSN CAUTI Rates in the ICU: The Impact of Fever Prevalence, Length of Stay (LOS) and Frequency of Obtaining Urine Cultures (Presentation 871). Presented at ID Week 2014, Philadelphia, PA, October 2014.
  19. Jones K, Sibai J\*, Bagdasarian N, Blair J, Brock-Jones J, Girardot J, Fletcher-Gutowski S, Driest T, Battjes R, Straetmans K, Fakh MG. How and When Nurses Collect Urine Cultures on Catheterized Patients: A Survey of 5 Hospitals (Poster Number: 5-178). Presented at 2014 APIC Annual Conference, June 2014, Anaheim, California.
  20. Heavens M, Grottemeyer J, Groves C, Fakh MG, for the Ascension Health Emergency Department Group to reduce Catheter-Associated Urinary Tract Infection. Preventing Patient Harm by Reducing Unnecessary Urinary Catheter Use: Successful Implementation at 6 Emergency Departments (Poster Number: 9-276). Presented at 2014 APIC Annual Conference, June 2014, Anaheim, California.
  21. Heavens M, Hendrich A, Fakh MG. Evaluation of Process Improvements Achieved with "Partnership for Patients" to Reduce Healthcare Associated Infections in 71 Hospitals (Poster Number: 9-277). Presented at 2014 APIC Annual Conference, June 2014, Anaheim, California.
  22. Fraine G, Guharoy R, Heavens M, Fakh MG. From Multidrug Resistance to Antimicrobial Stewardship: Early Evaluation in 85 Hospitals of a Single System (Poster Number: 1-109). Presented at 2014 APIC Annual Conference, June 2014, Anaheim, California.
  23. Hooshmand B\*, Szpunar S, Fakh MG. Successful Reduction in Urinary Catheter Use in Patients Transferred out of the Intensive Care Units with Staff Education and Engagement (Presentation 201). Presented at the 2013 ID Week meeting, October 2013, San Francisco, California.
  24. Sibai J\*, Jones K, Straetmans K, Fakh MG. To culture or not to culture: a survey of resident physicians and nurses on diagnosis and management of catheter associated urinary tract infections (Presentation 205). Presented at the 2013 ID Week meeting, October 2013, San Francisco, California.
  25. Guharoy R, Mends D, Heavens M, Fakh MG. Does Size Matter? Variation in Antimicrobial Use in the Largest not for Profit Health System in the United States (Presentation 1021). Presented at the 2013 ID Week meeting, October 2013, San Francisco, California.
  26. Fakh MG, Minnick S, Hagglund K, Hilu R, Nouhan P, Edhayan E, Ziegler D, Paschall M, Prysak M, Wertheimer S, Lorenzana A. Healthcare-Associated Infections: Knowledge, Training, and Practice of Resident Physicians (Presentation 209). Presented at the 2013 ID Week meeting, October 2013, San Francisco, California.
  27. Fakh MG, Heavens M, Grottemeyer J, Groves C, for the Ascension Health Emergency Department Group to reduce Catheter-Associated Urinary Tract Infection. Improving Urinary Catheter Use: a Pilot of 18 Emergency Departments (Presentation 1073). Presented at the 2013 ID Week meeting, October 2013, San Francisco, California.

28. Heavens M, Ratcliffe C, Hendrich A, Fakh MG. First Step to Reducing Infection Risk as a System: Evaluation of Infection Prevention Processes for 71 Hospitals (Presentation Number 9-388). Presented at the 2013 APIC Annual Conference, June 2013, Ft. Lauderdale, Florida.
29. Flood M, Hopfner D, Fakh MG. Improving Compliance with Contact Precautions: Is Education Enough? (Presentation Number 9-370). Presented at the 2013 APIC Annual Conference, June 2013, Ft. Lauderdale, Florida.
30. Gill B\*, Fakh M, Sabir T, Barawi M. A rare case of gastric Kaposi sarcoma in an immunocompetent patient (P1186). Presented at the 2012 Annual Meeting of the American College of Gastroenterology, October 2012, Las Vegas, Nevada.
31. Obeid K, Szpunar S, Fakh M. Identifying Clinical and Radiographic Differences in HIV-Positive and Negative Patients with Pulmonary Tuberculosis: Case-Control Study (abstract 1573). Presented at ID week 2012, October 2012, San Diego, California.
32. Obeid K, Szpunar S, Fakh M. Applicability of Current Available Clinical Prediction Rules for Pulmonary Tuberculosis to HIV-Positive Patients (abstract 279). Presented at ID week 2012, October 2012, San Diego, California.
33. AlQas-Hanna F\*, Iyer S\*, Sambirska O, Fakh MG. Clinician Practice and the NHSN Definition for the Treatment of Symptomatic CAUTI (abstract 1178). Presented at ID week 2012, October 2012, San Diego, California.
34. Madigan J, Fresard J, Meisner S, Rey J, Batra S, Fakh M. Preventing *Staphylococcus aureus* Surgical Site Infections (SSIs) following Cardiothoracic Surgery (abstract 1684). Presented at ID week 2012, October 2012, San Diego, California.
35. Rey J, Pena M, Szpunar S, Saravolatz L, Fakh MG. Sustained Reductions in Urinary Catheter Use Over 5 Years (abstract 1095). Presented at ID week 2012, October 2012, San Diego, California.
36. Hopfner D, Rey J, Fakh M. Targeting Zero Central Line Associated Blood Stream Infection: Innovative Prevention Initiatives toward desired Outcomes (Abstract 4-053). Presented at the 2012 APIC Annual Educational Conference and International Meeting, June 2012, San Antonio, TX.
37. Iyer SP\*, Sharma M, Fakh MG, Khatib R. Prevalence of *Staphylococcus aureus* bacteremia (SAB): declining trends over nine years (Abstract 568). Presented at the 49th Annual Meeting of the Infectious Diseases Society of America, October 2011, Boston, MA.
38. Saravolatz L, Pawlak J, Johnson L, Fakh MG, Fugelli A, Olsen WM. In-vitro Activity of LTX-109 against Vancomycin Intermediate (VISA), Vancomycin Resistant (VRSA) and Mupirocin Susceptible Low and High Level Resistant Strains of *Staphylococcus aureus* (E-1328). Presented at the 51st Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2011, Chicago, IL.
39. Sharma M, Flood M, Szpunar S, Berriel-Cass D, Fakh MG. Surgical Site Infection Following Open Vs Laparoscopic Assisted Colorectal Surgery: Prevalence, Microbiology and Outcomes (K-478). Presented at the 51st Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2011, Chicago, IL.
40. Fakh MG, Jones K, Rey J, Takla R, Szpunar S, Brown K, Berriel-Cass D, Boelstler A, Saravolatz L. Compliance with Peripheral Intravenous Catheter

- Placement and Care in the Emergency Department: a Safety Problem and Risk for Hospital Acquired Infection (K-1440). Presented at the 51st Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2011, Chicago, IL.
41. Kalinicheva T, Fasih, MG, Rey J, Jones K. Bloodstream Infection Surveillance on 10 non-Intensive Care Units: What Should we Focus on? (Abstract K-830). Presented at the 51st Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2011, Chicago, IL.
  42. Rey J, Jones K, Berriel-Cass D, Hendrich A, Szpunar S, Saravolatz L, Fasih M. An Educational Intervention to Reduce Intravascular Catheter (IVC) Complications in the Non-ICU Setting: Evaluation of Nurses' Knowledge, Perception of Manager Involvement, and Impact of Intervention (Abstract 9-085). Presented at the 2011 APIC Annual Educational Conference and International Meeting, June 2011, Baltimore, MD.
  43. Nomides NB, Hopfner D, Riegel B, Fasih M. Interventions to Prevent Temporary Hemodialysis Catheter-Related CLABSI (Abstract 13-166). Presented at the 2011 APIC Annual Educational Conference and International Meeting, June 2011, Baltimore, MD.
  44. Fasih MG, Greene MT, Kennedy EH, Meddings JA, Krein SL, Olmsted RN, Saint S. Introducing a Population-Based Outcome Measure to Evaluate the Effect of Interventions to Reduce Catheter-Associated Urinary Tract Infection. (Abstract LB 11). Presented as a late breaker oral presentation at the 21st Annual Scientific Meeting of the Society of Healthcare Epidemiology of America (SHEA), April 2011, Dallas, TX.
  45. Fasih MG, Shemes S. Urinary Catheters (UCs) in the Non-Intensive Care Units: Indications and Duration of Utilization. (Abstract 585). Presented at the 21st Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), April 2011, Dallas, TX.
  46. Fasih MG, Jones K, Rey JE, Berriel-Cass D, Hendrich A, Szpunar S, Saravolatz LD. Intravenous Catheter Care in Non-Intensive Care Units: Education and Performance Feedback Lead to Sustained Improvements of Process Measures. (Abstract 217). Presented at the 21st Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), April 2011, Dallas, TX.
  47. Sanchez K\*, Obeid K, Rey J, Fasih M, Khatib R. Delayed Onset Peripheral Intravenous Catheter (PIVC)-Associated Staphylococcus aureus Bacteremia (D-SAB) >24 H After Catheter Removal. (Abstract K-987). Presented at the 50th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2010, Boston, MA.
  48. Fasih MG, Greene MT, Meddings J, Krein SL, Olmsted R, Saint S. Which Outcome Measure Should We Use to Evaluate the Effect of Interventions to Reduce Catheter-Associated Urinary Tract Infection? (Abstract k-2201). Presented at the 50th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2010, Boston, MA.
  49. Daas HA\*, Sanchez K, Khatib R, Kanwar M, Brar N, Fasih M. Time to Antibiotics for Community Acquired Pneumonia: Time for Diagnostic Accuracy? (Abstract L1-1028). Presented at the 50th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2010, Boston, MA.

50. Fakh MG, Jones K, Rey J, Berriel-Cass D, Hendrich A, Szpunar S, Saravolatz LD. Nurse-Driven Process to Reduce Risk of Intravascular Catheter-Related Complications in the Non-Intensive Care Units. (Abstract K-994). Presented at the 50th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2010, Boston, MA.
51. Jones K, Rey J, Berriel-Cass D, Hendrich A, Saravolatz L, Fakh M. Developing a Process to Reduce Risk of Intravascular Catheter-Related Infections and Complications in the Non-Intensive Care Units. Presented at the 2010 APIC Annual Educational Conference and International Meeting, July 2010, New Orleans, LA.
52. Madigan J, Rey J, Flood M, Hopfner D, Herman R, Vosburgh A, Fakh M. Strategies to Improve Seasonal Influenza Vaccination among HCWs. Presented at the 2010 APIC Annual Educational Conference and International Meeting, July 2010, New Orleans, LA.
53. Krein S, Kowalski C, Fakh M, Olmsted R, Saint S. Preventing Catheter-Associated Urinary Tract Infection in U.S. Hospitals, 2005–2009. Presented at the 2010 Society of Hospital Medicine, May 2010, Washington, D.C.
54. Shemes S, Riederer KM, Fakh MG, Al Raiy B\*, Venugopal AA, Khatib R. Circulation of Clostridium difficile Strains in the Environment and their Possible Role in Nosocomial Infection. Presented at the Annual American Society for Microbiology (ASM) 110th General Meeting, May 2010, San Diego, CA.
55. Fakh MG, Shemes S, Pena M, Dyc N\*, Rey J, Szpunar S. Female Gender and the Very Elderly: High Risk for Unnecessary Urinary Catheter Placement in the Emergency Department (Abstract 796). Presented at the 5th Decennial International Conference on Healthcare-Associated Infections, March 2010.
56. Khatib R, Sharma M, Fakh M, Johnson L, Riederer K, Shemes S. The Outcome of Vancomycin-Intermediately Susceptible (VISA) Methicillin-Resistant Staphylococcus aureus (MRSA) Bacteremia (B). Presented at the 47th Annual Meeting of the Infectious Diseases Society of America, October 2009.
57. Fakh MG, Al-Raiy B\*, Shemes S, Riederer K, Rey J, Kale P, Meisner C, Bishoff R, Chase P, Szpunar S, Khatib R. Evaluation of 1:10 Hypochlorite in terminal cleaning in the intensive care units to reduce Clostridium difficile transmission in an endemic setting (Abstract K-2090). Presented at the 49th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2009.
58. Dyc NG\*, Pena ME, Shemes SP, Rey JE, Szpunar SM, Fakh MG. The Effect of Resident Peer-to-Peer Education on Compliance with Urinary Catheter Placement Indications in the Emergency Department. Presented at the Society of Academic Emergency Medicine Regional Meeting September 2009.
59. Fakh MG, Shemes S, Pena M, Jones K, Rey J, Berriel-Cass D, Savoy-Moore R, Saravolatz L. Urinary Catheter (UC) Utilization in the Emergency Department (ED): Reasons for Placement and Room for Improvement. (Abstract 136). Presented at the 19th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), March 20th, 2009.
60. Fakh MG, Duweke C, Rey J, Berriel-Cass D, Savoy-Moore R, Pena M, Saravolatz L. Evaluation of Urinary Catheter Need on Transfer out of the Intensive Care Units Reduces Unnecessary Utilization. (Abstract 135). Presented

- at the 19th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), March 20th, 2009.
61. Khatib R, Johnson LB, Sharma M, Fakh MG, Ganga R, Riederer K. Persistent Staphylococcus aureus Bacteremia: Trends in the Incidence and Risk Factors Over an 11 Year Span (Abstract k-3472) Presented at the 46th Annual Meeting of the Infectious Diseases Society of America, Washington, D.C., October 2008.
  62. Hopfner D, Bryan-Nomides N, Riegel E, Nenninger T, Juchartz S, Fakh M. Patient Safety and the Power of "Partnership" A Multidisciplinary Approach for Removing Unnecessary Central Lines. 2008 APIC Annual Educational Conference and International Meeting, June, 2008 (Am J Infect Control, Volume 36, Issue 5, Publication Number 11-115).
  63. Bryan-Nomides N, Hopfner D, Riegel E, Nenninger T, Juchartz S, Ralston K, Fakh M. Central Line-Associated Bloodstream Infections Outside the Intensive Care Unit: Can We Make a Difference? 2008 APIC Annual Educational Conference and International Meeting, June, 2008 (Am J Infect Control, Volume 36, Issue 5, Publication Number 5-34).
  64. Fakh MG, Al Raiy B\*, Bryan-Nomides N, Hopfner D, Riegel E, Nenninger T, Khatib R. Catheter-Related Blood Stream Infections (CRBSI) Related to Short Term Central Venous Catheters (CVCs) and Peripherally Inserted Central Catheters (PICCs): Which One to Choose? (Abstract 116). Presented to the 18th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), April, 2008.
  65. Bhageshpur R\*, Riederer K, Sharma M, Fakh MG, Johnson LB, Shemes S, Khatib R. The outcome of Staphylococcus aureus bacteremia stratified according to methicillin susceptibility and the SCCmec type (K1076). Presented at the 47th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2007.
  66. Al Raiy B, Khatib R, Stemmler J, Berriel-Cass D, Fakh MG. Infectious and Thrombotic Complications of Peripherally Inserted Central Catheters in the Hospital Setting. (Abstract 797). Presented at the 45th Annual Meeting of the Infectious Diseases Society of America, October 2007.
  67. Khatib R, Johnson LB, Sharma M, Fakh MG, Bhageshpur R\*, Riederer K. Protracted Staphylococcus aureus bacteremia in patients with or without endovascular sources (Abstract 311). Presented at the 45th Annual Meeting of the Infectious Diseases Society of America, October 2007.
  68. Rey J, Madigan J, Aleksoniene K\*, Patel S, Fakh MG. New Response to an Old Threat: Evaluation of Healthcare Workers Knowledge of Clostridium difficile Transmission Risks. Oral presentation at the 2007 APIC Annual Educational Conference and International Meeting, June, 2007 (Am J Infect Control, Volume 35, Issue 5, Pages E203-E203).
  69. Fakh MG, Dueweke C, Meisner S, Berriel-Cass D, Brach N, Desantis L, Savoy-Moore R, Saravolatz L. Impact of Nurse Driven Multidisciplinary Rounds on Discontinuation of Unnecessary Urinary Catheters: a Possible Strategy to Reduce Infection. (Abstract 250). Presented to the 17th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), April, 2007.
  70. Fakh MG, Aleksoniene K\*, Rey J, Patel S. Resident physician (RP) and Physician Extender (PE) Survey Regarding Isolation Precautions for Patients With Clostridium difficile (C diff) Diarrhea: Need for Education. (Abstract 186).

- Presented to the 17th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), April, 2007.
71. Patel S, Rey J, Aleksoniene K\*, Fakh MG. Registered Nurses (RNs) vs. Patient Care Technicians (PCTs): Assessment of Knowledge of Transmission and Infection Control Practices of Patients Infected with *Clostridium difficile*. (Abstract 345). Presented to the 17th Annual Scientific Meeting of the Society for Healthcare Epidemiology of America (SHEA), April, 2007.
  72. Patel SM, Johnson LB, Valenti S, Jahamy H\*, Riederer K, Nagappan V, Fakh MG, Sharma M, Khatib R. Community-onset (CO) *Clostridium difficile* – associated diarrhea (CDAD): frequency, risk factors and characteristics. (Abstract 1040). Presented at the 44th Annual Meeting of the Infectious Diseases Society of America, October 2006.
  73. Kanwar M\*, Brar N\*, Khatib R, Fakh MG. Overdiagnosis of community acquired pneumonia and inappropriate utilization of antibiotics: side effects of the 4-hour administration rule. (Abstract 211). Presented at the 44th Annual Meeting of the Infectious Diseases Society of America, October 2006.
  74. Alrai B\*, Jahamy H\*, Fakh MG, Khatib R. Physicians approach to positive urine culture in the intensive care units (ICU). (Abstract 433). Presented at the 44th Annual Meeting of the Infectious Diseases Society of America, October 2006.
  75. Sharma M, Fakh MG, Berriel-Cass D, Khatib R, Saravolatz L. Harvest surgical site infection following coronary artery bypass grafting: prevalence, microbiology and outcomes. Abstract Presented (oral) at the 46th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, September 2006.
  76. Brar N\*, Kanwar M\*, Khatib R, Fakh MG. Overdiagnosis of community acquired pneumonia in patients admitted through the emergency room: is compliance with quality indicators helping or hurting our patients? Presented (oral) at the 2006 ACP Michigan Chapter Scientific Meeting, September 2006.
  77. Fakh MG, Nunu O\*. A multidisciplinary effort to reduce the risk of urinary catheter associated infection: an intervention to get and keep the foley out. (Abstract 9). Presented (oral) at the 16th Annual Meeting of the Society for Healthcare Epidemiology of America, March 2006.
  78. Khatib R, Saeed S\*, Sharma M, Riederer K, Fakh MG, Johnson LB. Comparative Outcome of Methicillin Susceptible and Methicillin Resistant *Staphylococcus aureus* Bacteremia: The Impact of Time-to-Antibiotics. (Abstract 355). Presented at the 43rd Annual Meeting of the Infectious Diseases Society of America, October 2005.
  79. Nazeri A\*, Fakh MG. The effect of Infectious Disease (ID) consultation on the use of vancomycin in patients with 2 positive blood cultures for coagulase negative staphylococcus (CoNS). (Abstract 409). Presented at the 43rd Annual Meeting of the Infectious Diseases Society of America, October 2005.
  80. Fakh MG, Khatib R, Sharma M, Berriel-Cass D, Saravolatz L. Risk factors and outcomes of sternal surgical site infection (SSI): comparison between *Staphylococcus aureus* (SA) and other pathogens. (Abstract 1150). Presented to the 43rd Annual Meeting of the Infectious Diseases Society of America, October 2005.

81. Berriel-Cass D, Minnick N, Fakh MG. Hyperglycemia and sternal surgical site infection (SSI): the effect of preoperative, intraoperative, and postoperative glucose control. (Abstract 1151). Presented at the 43rd Annual Meeting of the Infectious Diseases Society of America, October 2005.
82. Rey J, Berriel-Cass D, Bramlage D, Eldurkar J, Fakh M. Successful interventions to control an influenza outbreak in an acute care facility. (E114-5). Presented at the APIC 32nd annual educational conference and international meeting, June 2005.
83. Enayet I\*, Saravolatz L, Minnick S, Fakh MG. Web-based course in infection control for resident physicians: an educational intervention. (Abstract 223). Presented at the 15th Annual Meeting of the Society for Healthcare Epidemiology of America, April 2005.
84. Berriel-Cass D, Fakh MG, Hopfner D, Kasom B, DeSantis L. Team approach for reducing central line bacteremia in adult intensive care units. (Abstract 161). Presented at the 15th Annual Meeting of the Society for Healthcare Epidemiology of America, April 2005.
85. Fakh MG, Sharma M, Berriel-Cass D, Meisner S, Harrington S, Khatib R, Saravolatz L. An increase in sternal surgical site infection (SSI) following coronary artery bypass (CABG) grafting: a marker of higher severity of illness. (Abstract 258). Presented at the 15th Annual Meeting of the Society for Healthcare Epidemiology of America, April 2005.
86. Fakh MG, Marciniak S, Share D, Saravolatz L. Antibiotic use for upper respiratory infections: relation to specialty, years of practice, and geographic location. (Abstract O-1609). Presented at the 44th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, November 2004.
87. Khatib R, Riederer K, Shah AR\*, Fakh MG, Saeed S\*. Molecular analysis of *Acinetobacter baumannii*: pulsed field gel electrophoresis (PGFE) versus a semi-automated system for repetitive sequence based PCR (rep-PCR). (Abstract K-1557). Presented at the 44th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, November 2004.
88. Fakh MG, Berriel-Cass D, Khatib R. Factors associated with increased risk for harvest surgical site infections (SSI) in cardiothoracic surgery (CTS). (Abstract K-100). Presented at the 44th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, November 2004.
89. Khatib R, Saeed S\*, Sharma M, Riederer K, Fakh M, Johnson LB. Timing of therapy and the outcome for *Staphylococcus aureus* bacteremia. (Abstract L-359). Presented at the 44th Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, November 2004.
90. Saeed S\*, Fakh MG, Riederer K, Shah AR\*, Khatib R. Inter-and Intra-Institutions Cross-Infections with *Acinetobacter baumannii* Detected by Molecular Typing. (Abstract 223). Presented at the 42nd Annual Meeting of the Infectious Diseases Society of America, October 2004.
91. Berriel-Cass D, Gorczyca J, Roth LA, DeSantis L, Fakh M. Better to be safe than "sarry": preparing for severe acute respiratory syndrome. (E62-3). Presented at the APIC 31st annual educational conference and international meeting, May 2004.



92. Berriel-Cass D, Bohlinger C, Meisner S, Fakh MG. Factors associated with sternal surgical site infections in cardiac surgery patients. (Abstract 320). Presented at the 14th Annual Meeting of the Society for Healthcare Epidemiology of America, April 2004.
93. Fakh M, Anthouard R\*, Ferrera-Reid R, Sowislo K, Hughes C. Evaluation of standing orders for influenza and pneumococcal vaccination in the hospital setting: venues for improvement. (Abstract 55). Presented at the 14th Annual Meeting of the Society for Healthcare Epidemiology of America, April 2004.
94. Saeed S\*, Hamze J\*, Khatib R, Fakh M. Nontunneled Central Venous Catheter (CVC) placement by resident physicians in the intensive care units (ICU): practice patterns, complications, and opportunities for improvement. (Abstract 82). Presented at the 14th Annual Meeting of the Society for Healthcare Epidemiology of America, April 2004.
95. Khatib R, Riederer K, Saeed S, Johnson LB, Fakh MG, Sharma M, Tabriz MS\*, Khosrovaneh A\*. Staphylococcus aureus bacteremia (SAB): significance to time to growth (TTG) of blood culture (BC). (Abstract 307). Presented at the 41st Annual Meeting of the Infectious Diseases Society of America, October 2003.
96. Fakh MG, Bershback J, Shalauta-Juzych N, Massanari M. Compliance of resident and faculty physicians with the guidelines for treating group A  $\beta$ -hemolytic streptococcus pharyngitis in the emergency room. (Abstract 237). Presented at the 41st Annual Meeting of the Infectious Diseases Society of America, October 2003.
97. Khatib R, Baran J, Johnson LB, Fakh MG, Riederer K, Khosrovaneh A\*, Tabriz S\*, Sharma M. Source related differences in the duration and the outcome of Staphylococcus aureus bacteremia: a prospective study. Presented at the 40th Annual Meeting of the Infectious Diseases Society of America, 2002.
98. Khosrovaneh A\*, Fakh MG, Riederer K, Khatib R. Streptococcus viridans in multiple blood cultures: clinical relevance and clinicians reactions. Presented at the 40th Annual Meeting of the Infectious Diseases Society of America, 2002.
99. Fakh MG, Hilu R, Savoy-Moore R, Saravolatz L. Do resident physicians manage upper respiratory infections appropriately? A survey of 11 programs. Presented at the 40th Annual Meeting of the Infectious Diseases Society of America, 2002.
100. Fakh MG, Rankin S\*, Slim A\*, Togger D, Hughes C, Khatib R. Safety of automatic switching to oral therapy in community acquired pneumonia. Presented at the 40th Annual Meeting of the Infectious Diseases Society of America, 2002.
101. Fakh MG, Rao M\*, Dehaan P\*, Khatib R. Inpatients with community acquired pneumonia: use of standing orders, compliance with quality indicators, antibiotic choice, and outcome. Presented at the 40th Annual Meeting of the Infectious Diseases Society of America, 2002.
102. Sharma M\*, Khatib R, Jones B, Fakh, MG. Cryptococcal neoformans myositis: a case report and a review of the literature. Presented at the 40th Annual Meeting of the Infectious Diseases Society of America, 2002.
103. Sharma M\*, Riederer K, Almoujahed MO\*, Fakh MG, Khatib R. Molecular analysis of Staphylococcus aureus blood isolates: lack of polyclonal bacteremia. Presented at the 41st Annual Meeting of the Interscience Conference for Antimicrobial Agents and Chemotherapy, December 2001.
104. Fakh MG, Mamlouk L\*, Thiramoorthi MC, Cummings GD, Khatib R. Diagnosis and treatment of streptococcal pharyngitis: compliance with IDSA

- quality indicators and antibiotic use. Presented at the 39th Annual Meeting of the Infectious Diseases Society of America, October 2001.
105. Fakh MG, Lalonde R, Stuart-Akujobi V, Aronin G, Zhu T, Rayes K. The impact of an educational brochure and video on antibiotic use for upper respiratory infections. Presented at Clinical Research 2001 meeting, American Federation for Medical Research, March 2001.
  106. El-Solh AA, Nopper J, Sherif SM, Aquilina AT, Fakh MG, Grant BGB. Comparison of clinical and radiographic manifestations of uncommon nontuberculous mycobacterial disease. Presented at the American Thoracic Society Meeting, April 1997.
  107. Hsiao CB, Mylotte J, Bidani R, Fakh MG. Adults with bacteremia and underlying HIV infection. Presented at the 37th Interscience Conference on Antimicrobial Agents and Chemotherapy, September 1997.

**Regional abstracts with trainees\*:**

1. Hooshmand B\*, Fakh MG. Successful Reduction in Urinary Catheter Use in Patients Transferred out of the Intensive Care Units with Staff Education and Engagement. Presented at the Associates Meeting for the Michigan Chapter of the American College of Physicians, May 2013, Michigan. Received 1<sup>st</sup> place quality improvement award.
2. Sibai J\*, Jones K, Fakh MG. Resident Physicians and Management of Patients with Suspected Catheter-Associated Urinary tract Infections (CAUTIs). Oral presentation at the Michigan Infectious Diseases Society Annual meeting, Lansing, Michigan, March 2013.
3. Gill B\*, Fakh M, Sabir T, Barawi M. A Rare case of Gastric Kaposi Sarcoma in the Immunocompetent Patient. Presented at the Michigan regional meeting for the American College of Physicians, May 2012.
4. AlQas-Hanna F\*, Iyer S\*, Sambirska O, Fakh MG. Clinician Practice and the NHSN Definition for the Treatment of Symptomatic CAUTI. Oral presentation at the Michigan Infectious Diseases Society Annual meeting, Beaumont Hospital, Royal Oak, Michigan, March 2012.

**Presentations:**

**2019:**

National/ Regional:

- Supporting Antimicrobial Stewardship to Achieve Best Outcomes. Presented at the 26<sup>th</sup> annual meeting, First Coast Infectious Disease/Clinical Microbiology Symposium, Hammock Beach Resort, Palm Coast, FL, February 2, 2019.

**2018:**

National/ Regional:

- Preventing and Improving Sepsis Outcomes. Presented at the Internal Medicine Noon lecture, St. Vincent Indianapolis Hospital, Indianapolis, Indiana, November 28, 2018.
- Improving the Culture of Culturing: Asset to Better Diagnoses and Outcomes. Grand Rounds presented at Ascension All Saints Hospital, Racine, Wisconsin, November 6, 2018.

- Preventing and Improving Sepsis Outcomes. Grand Rounds presented at Ascension All Saints Hospital, Racine, Wisconsin, November 6, 2018.
- Optimizing Antibiotic Use to Improve your Patient Outcomes. Presented at Our Lady Lourdes Memorial Hospital, Binghamton, NY, May 22, 2018.
- How to find resources at your institution and healthcare system. Presented at the SHEA Spring Antimicrobial Stewardship Training Course, Portland, OR, April 19, 2018.
- From Improving the Culture of Culturing to Reducing Device Harm. Part of the session “Interrupting the slippery slope of over-testing and over-treating the urine”. Presented at the SHEA Spring meeting, Portland, OR, April 20, 2018.
- Hospitalists: Supporting Antimicrobial Stewardship and Reducing Infection Risk. Webinar presented to St John Health Hospitalists, Tulsa, OK, February 28, 2018.
- Hospitalists: Supporting Antimicrobial Stewardship and Reducing Infection Risk. Webinar presented to Hospitalists at Providence Hospital, Mobile, AL, February 8<sup>th</sup>, 2018.
- Physician’s role in reducing device harm. Webinar presented to HNI Healthcare hospitalists, Jacksonville, FL, February 2<sup>nd</sup>, 2018.

Local:

- Diagnostic Stewardship: a Critical Element to Optimize Patient Outcomes, Grand Rounds at Ascension St John Hospital, Detroit, MI, September 18, 2018.
- Safety and Infection Prevention: a System-Hospital Partnership, Grand Rounds at Ascension St John Hospital, Detroit, MI, September 18, 2018.
- Preventing Sepsis and the Infection Preventionist. APIC Great Lakes Late Summer Conference keynote speaker, August 9, 2018.
- Preventing Sepsis and Improving Sepsis Outcomes, noon conference presentation to Internal Medicine Residents, August 8, 2018.
- Optimizing Antibiotic Use to Improve your Patient Outcomes. Grand Rounds presented at Crittenton Hospital, Rochester, MI, May 11, 2018.

**2017:**

International:

- Managing CAUTI: from Prevention to Treatment. Webinar presented part of “Infectology up to Date”. Universidad de la República, in Montevideo, Uruguay.
- From defeating CAUTI to preventing catheter harm. Keynote lecture for the Swiss Patient Safety Foundation and Swissnoso workshop, Zurich, Switzerland, January 24, 2017.
- From defeating CAUTI to preventing catheter harm. Grand Rounds presented at the University of Bern Hospital, Bern, Switzerland, January 25, 2017.

National/ Regional:

- Hospitalists: Supporting Antimicrobial Stewardship and Reducing Infection Risk. Webinar presented to HNI Healthcare hospitalists, Jacksonville, FL, November 9 and 16, 2017.
- Is the Juice Worth the Squeeze: Should CAUTI Prevention be a Top Priority? Plenty of Juice to Squeeze, but Pick the Right Juicer. Presented at the SHEA Spring meeting, St Louis, MO, March 29, 2017.

- How to Find Resources at Institution and Health System. Presented at the SHEA Spring Antimicrobial Stewardship Training Course, St Louis, MO, March 30, 2017.

**2016:**

National/ Regional:

- Antimicrobial Stewardship: Lessons Learned and New Milestones. Presented with Roy Guharoy, PharmD at the 2016 Ascension Pharmacy Leadership Conference, December 4<sup>th</sup>, 2016, Las Vegas, Nevada.
- Antimicrobial Stewardship: a Quality and Safety Imperative. Grand rounds presented at Providence Hospital, Washington, D.C., December 1<sup>st</sup>, 2016.
- Approach to "High-Hanging" Fruit in ASP Implementation. Moderators: Kavita K. Trivedi, MD, and Arjun Srinivasan, MD, FSHEA. Interactive Panelists: Elizabeth Dodds Ashley, PharmD, MHS, FCCP, BCPS, Mohamad G. Fakh, MD, MPH, FIDSA, FSHEA, Jason Newland, MD, MEd, FPIDS, and Anurag Malani, MD, FIDSA. Presentation at ID Week 2016, New Orleans, LA, October 2016.
- From Defeating CAUTI to Preventing Urinary Catheter Device Harm. Infectious Diseases Grand Rounds presented for the "Thomas Beam yearly memorial lecture", Buffalo, NY, October 4<sup>th</sup>, 2016.
- Surgical Site Infections Associated with Colon Surgery: Strategies for Prevention and Results. National Content Development Webinar, Partnership for Patients, July 14, 2016.
- From Defeating CAUTI to Preventing Urinary Catheter Harm. Webinar presented for the Vizient Hospital Engagement Network Knowledge Network Education Series program, May 31<sup>st</sup>, 2016.
- How to Find Resources at Institution and Health System. Presented at the SHEA Antimicrobial Stewardship Training Course, Atlanta, GA, May 20, 2016.
- Improving the Culture of Culturing: Why the Urine. Presented at the SHEA Spring 2016 meeting, Atlanta, GA, May 20, 2016.
- Interprofessional Relationships: Focus on Nurse-Physician Partnership. Guest lecturer (webinar) to the Samford University, Ida V. Moffett School of Nursing NURG 624: Spring 2016 course, April 20<sup>th</sup>, 2016.
- From Infection Prevention to Antimicrobial Stewardship: a System-Hospital Partnership. Grand rounds at St Vincent Hospital, Bridgeport, CT, March 15, 2016.
- From Infection Prevention to Antimicrobial Stewardship: a System-Hospital Partnership. Webinar presented at the Ascension Hospital Engagement Network Lead Monthly. March 1, 2016.
- All day educational program for device safety champions at Ascension. Two presentations: Successful patient safety efforts: is there a perfect recipe?; Preventing device harm; Engaging the stakeholders; Ascension Health, St Louis, MO, February 9, 2016.
- Building Antimicrobial Stewardship for Ascension: presented by Mohamad Fakh and Roy Guharoy. Webinar kickoff presentation for all Ascension Antimicrobial Stewardship Teams. January 13, 2016.

**2015:**

National/ Regional:

- Successes from Ascension LEAPT HEN: CAUTI. 2015 CMS Quality Conference, Baltimore, Maryland, December 2<sup>nd</sup>, 2015.
- Update on Preventing Cardiovascular Infections. Presented at the 2015 Annual Clinical Assembly of Osteopathic Surgeons, Chicago, Illinois, October 4<sup>th</sup>, 2015.
- Building Antimicrobial Stewardship for Ascension. Presented with Roy Guharoy, PharmD, at the Clinical Leadership Community meeting, Dallas, Texas, October 1<sup>st</sup>, 2015.
- Roadmap to Defeat CAUTI: Know your Catheter and Collaborate. Keynote speaker for the Wisconsin APIC 2015 seminar, Peewaukee, Wisconsin, April 30<sup>th</sup>, 2015.
- Interprofessional Relationships: Focus on Nurse-Physician Partnership. Guest lecturer (webinar) to the Samford University, Ida V. Moffett School of Nursing NURG 624: Spring 2015 course, April 20<sup>th</sup>, 2015.
- Improving the Culture of Culturing (aka, Culturing Stewardship). Webinar presented for the Cohort 9 ICU Initiative of On the CUSP Stop CAUTI, April 8<sup>th</sup>, 2015.
- Sustainability for CAUTI Prevention Efforts. Presented at the National Implementation of CUSP to Reduce CAUTI Technical Expert Panel (TEP) Meeting, Rockville, MD, March 30<sup>th</sup>, 2015.
- Lessons Learned from CAUTI Prevention Efforts: Experience at Ascension. Presented at the STOP CAUTI Acute Leadership Collaborative meeting, Chicago, Illinois, March 26<sup>th</sup>, 2015.
- Culturing stewardship and CAUTI. Presented at the MHA Keystone: CAUTI Regional Learning Session, Livonia, Michigan, March 4<sup>th</sup>, 2015.
- Roadmap to preventing catheter-associated urinary tract infections in the intensive care units. Webinar presented to the Tennessee Hospital Association, January 23<sup>rd</sup>, 2015.
- Roadmap to preventing catheter-associated urinary tract infections in the intensive care units. Part of: National implementation of CUSP to Reduce CAUTI in the ICU- CAUTI Bootcamp. Phoenix, Arizona, January 16<sup>th</sup>, 2015.
- Reducing Unnecessary Urinary Catheter Use in the Emergency Department: Why and How to Implement the Process. *On the CUSP: Stop CAUTI* Cohort 9 Kickoff Webinar, January 7<sup>th</sup>, 2015.

Local:

- Successful Patient Safety Efforts: Is there a Perfect Recipe? Internal Medicine Grand Rounds at St John Hospital and Medical Center, Detroit, Michigan, April 28<sup>th</sup>, 2015.

**2014:**

National/ Regional:

- Towards one Ascension Excellence: Addressing Together Antimicrobial Stewardship. Presented with Roy Guharoy, PharmD at the annual pharmacy leadership meeting for Ascension Health, Orlando, Florida, December 7<sup>th</sup>, 2014.
- Roadmap to Preventing Hospital Infections: a Closer Look at CAUTI. Grand rounds presented at Sacred Heart Hospital, Pensacola, Florida, November 19<sup>th</sup>, 2014.
- Infectious Complications Related to the Catheter Other than CAUTI. Presented with Nasia Safdar, MD, and Karthlyn Fletcher, MD. *On the CUSP: Stop CAUTI* Content Webinar, September 9<sup>th</sup>, 2014.
- Reducing Unnecessary Urinary Catheter Use in the Emergency Department: Why and How to Implement the Process. *On the CUSP: Stop CAUTI* Cohort 8 Onboarding Webinar, June 17<sup>th</sup>, 2014.
- Roadmap to Defeat CAUTI: Know your Catheter and Collaborate. Presented at the Arizona Hospital and Healthcare Association CAUTI Summit, May 30<sup>th</sup>, 2014.
- Prevention of Catheter-Associated Urinary Tract Infections in the Intensive Care Units. Presented at the Michigan Society of Infection Prevention and Control Spring Conference, May 8, 2014.
- The physician's Role in Eliminating CLABSI and CAUTI. Grand rounds presentation at St Vincent Hospital, Indianapolis, Indiana, May 6<sup>th</sup>, 2014.
- How Practice and Surveillance Affect Your CAUTI Efforts. Presented at the Interdisciplinary Academy for Coaching & Teamwork (I-ACT) 2, On the CUSP Stop CAUTI initiative, May 2<sup>nd</sup>, 2014.
- Roadmap to defeat CAUTI: Know your catheter and collaborate. Webinar presented to 10 States Quality Improvement Organizations, April 17<sup>th</sup>, 2014.
- Building a Team and a Process to Reduce CAUTI Risk. Presented (webinar) for "On the CUSP: Stop CAUTI Cohort 8" On-boarding Call #1, April 8<sup>th</sup>, 2014.
- How Practice and Surveillance Affect Your CAUTI Efforts. National content webinar presented for the On the CUSP STOP CAUTI teams, March 11<sup>th</sup>, 2014.
- Roadmap to Preventing Hospital Infections: a Closer Look at CAUTI. Grand rounds presented at Carondelet St Joseph Hospital, Tucson, AZ, March 11<sup>th</sup>, 2014.
- Roadmap to Preventing Hospital Infections: a Closer Look at CAUTI. Grand rounds presented at Carondelet St Mary's Hospital, Tucson, AZ, March 12<sup>th</sup>, 2014.
- Emergency Department 2014 CAUTI reduction kickoff for Ascension Health. Four presentations given including: "Why are we doing this?", "Reducing Unecessary Urinary catheter Use in the Emergency Department: How to Implement the Process", "Reducing Unecessary Urinary catheter Use in the Emergency Department: How to Implement the Process", "Emergency Department Healthcare Worker Engagement". Webinar presented to Ascension Health hospital teams, March 7<sup>th</sup>, 2014.
- Ensuring Sustainability for CAUTI Prevention Efforts. Presented at the Statewide CAUTI Celebration Meeting, and CAUTI in the ED kickoff, Oregon Association of Hospitals and Health Systems, Portland, Oregon, February 27<sup>th</sup>, 2014.

- Preventing CAUTI: Focusing on the ED. Presented at the Statewide CAUTI Celebration Meeting, and CAUTI in the ED kickoff, Oregon Association of Hospitals and Health Systems, Portland, Oregon, February 27<sup>th</sup>, 2014.
- Appropriate Urinary Catheter Placement in the Emergency Department. Webinar presented to Ascension Health hospital teams, February 25<sup>th</sup>, 2014.
- Prevention of Catheter-Associated Urinary Tract Infections in the Intensive Care Units. Webinar presented to Michigan Health & Hospital Association “Partnership for Patients”, January 28<sup>th</sup>, 2014.
- Prevention of Catheter-Associated Urinary Tract Infections in the Intensive Care Units. Webinar presented to Ascension Health “Partnership for Patients”, January 21<sup>st</sup>, 2014.
- Roadmap to defeating CAUTI: Know your catheter and collaborate. Webinar presented to the Washington State Hospital Association “Partnership for Patients”, January 24<sup>th</sup>, 2014.
- Reducing MDRO Risk at Ascension Health: Focus on *Clostridium difficile* Infection. Webinar presented part of the kickoff for Clostridium difficile and multidrug resistant drug organisms for Ascension Health LEAPT hospitals, January 17<sup>th</sup>, 2014.

**2013:**

National/ Regional:

- Roadmap to Defeat CAUTI: Know your Catheter and Collaborate. Webinar presented for the Department of Defense Infection Community of Practice, December 18, 2013.
- Reducing Unnecessary Urinary Catheter Use in the Emergency Department: Why and How to Implement the Process. *On the CUSP: Stop CAUTI Cohort 7 Onboarding Webinar #2*, December 5<sup>th</sup>, 2013.
- Preventing sepsis and improving sepsis outcomes. Webinar part of the Ascension Health kickoff for sepsis improvement, December 5<sup>th</sup>, 2013.
- Reducing CAUTI: Building Interventions to Achieve Successful Results. Webinar presented at the Minnesota cohort 7 learning session #1, December 4<sup>th</sup>, 2013.
- Controversies in CAUTI prevention. Webinar presented at the Minnesota cohort 7 learning session #1, December 4<sup>th</sup>, 2013.
- Building a Team and a Process to Reduce CAUTI Risk. Presented (webinar) for “On the CUSP: Stop CAUTI Cohort 7” On-boarding Call #1, November 19<sup>th</sup>, 2013.
- Roadmap to Defeat CAUTI: Know your Catheter and Collaborate. Presented at the North Carolina-Virginia Healthcare Acquired Infection Learning Summit, Cary, North Carolina, October 17<sup>th</sup>, 2013.
- Reducing CAUTI: Building Interventions to Achieve Successful Results. Webinar presented to the Maryland Hospital Association Partnership for Patients, September 12<sup>th</sup>, 2013.
- Emergency Department and catheter insertions. Webinar given with Lisa Wolf, PhD, and Jeremiah Schuur, MD, part of the On the CUSP STOP CAUTI national content calls, September 10<sup>th</sup>, 2013.

- Reducing Unnecessary Urinary Catheter Use in the Emergency Department. Webinar presented to the Kentucky Hospital Association Hospital Engagement Network, August 20<sup>th</sup>, 2013.
- Ensuring Sustainability for Safety and Quality Improvement Efforts. Webinar presented part of the healing without harm series for Ascension Health, July 8<sup>th</sup>, 2013.
- Reducing CAUTI: Building Interventions to Achieve Successful Results. Presented (webinar) for Ascension Health “Partnership for Patients”, July 2<sup>nd</sup>, 2013.
- Reducing Unnecessary Urinary Catheter Use in the Emergency Department: Why and How to Implement the Process. Presented at the Emergency Department onboarding webinar to reduce urinary catheter infections for the On the CUSP STOP CAUTI project, June 12<sup>th</sup>, 2013.
- Reducing CAUTI: Building Interventions to Achieve Successful Results. Presented (webinar) at Minnesota Hospital Association learning session #1, June 5<sup>th</sup>, 2013.
- Building a Team and a Process to Reduce CAUTI Risk. Presented (webinar) for “On the CUSP: Stop CAUTI Cohort 6” On-boarding Call #1, June 4<sup>th</sup>, 2013.
- Reducing CAUTI and Appropriate Management of Asymptomatic Bacteriuria. Medical grand rounds presented at Guthrie Health System, Sayre, Pennsylvania, May 3<sup>rd</sup>, 2013.
- Team Roles and Responsibilities: presented at the STOP CAUTI Interdisciplinary Academy for Coaching & Teamwork (I-ACT), Chicago, Illinois, May 2<sup>nd</sup>, 2013.
- Successful Implementation of Patient Safety Efforts. Webinar presented part of the healing without harm series for Ascension Health, April 8<sup>th</sup>, 2013.
- How Surveillance and Practice Affect your CAUTI Efforts. Webinar presented at the Midcourse Keystone Healthcare Associated Infections, March 14<sup>th</sup>, 2013.

Local:

- Infection in Surgical ICU: Focus on Fever. Surgical grand rounds at St John Hospital and Medical Center, Detroit, Michigan, December 5<sup>th</sup>, 2013.
- Preventing Catheter-Associated urinary Tract Infections. Grand rounds presented at Troy Beaumont Hospital, Troy, Michigan, March 18<sup>th</sup>, 2013.
- Successful Patient Safety Efforts: from Implementation to Sustainability. Internal Medicine Grand Rounds at St John Hospital and Medical Center, Detroit, Michigan, January 22, 2013.

**2012:**

National/ Regional:

- Preparing for the Future: Setting up for Sustainability. Presented for “On the CUSP: Stop CAUTI” national content call, November 13<sup>th</sup>, 2012.
- Building a Team and a Process to Reduce CAUTI Risk. Presented for “On the CUSP: Stop CAUTI Cohort 5” On-boarding Call #1, November 6<sup>th</sup>, 2012.



- Increasing the Appropriateness of Urinary Catheter Insertion: Results from Michigan Emergency Department Pilots. MHA Keystone Safe Care Workshop, Dearborn, Michigan, October 3rd, 2012.
- Controversies in Catheter-Associated Urinary Tract Infections Prevention. Presented at the New Hampshire Hospital Engagement network meeting, Concord, New Hampshire, September 14th, 2012.
- Preventing Catheter-Associated Urinary Tract Infections: Planning and Implementing the Effort. Presented at the New Hampshire Hospital Engagement network meeting, Concord, New Hampshire, September 14th, 2012.
- Addressing Appropriate Urinary Catheter Use in the Emergency Department: Why and How? Presented at the Hospital Engagement Network week, Chicago, Illinois, August 16th, 2012.
- Reducing Hospital-Acquired Infections. Presented at the Ascension Health High Reliability Forum, Orlando, Florida, August 1st, 2012.
- Reducing CAUTI: How to Approach it and Pitfalls to Avoid. Presented at the Florida Mid-collaborative Meeting, Orlando, Florida, June 27th, 2012.
- Efforts to Reduce CAUTI: Achieving Successful Results. National Content Development webinar (under Partnership for Patients work). Presented on June 11th, 2012.
- Efforts to Reduce CAUTI: Achieving Successful Results. National Content Developer Webinar for “Partnership for Patients”, June 6th, 2012.
- Building a Team and a Process to Reduce CAUTI Risk. Presented for “On the CUSP: Stop CAUTI Cohort 4” On-boarding Call #1, May 14th, 2012.
- Preventing catheter associated urinary tract infection: what you need to know. Presented for the “On the CUSP: Stop CAUTI Cohort 4” kickoff learning session #1, Novi, Michigan, May 3rd, 2012.
- Efforts to Reduce CAUTI: Successes and Controversies. Presented at the MHA Michigan Health and Hospital Association Keystone: Hospital Acquired Infections Workshop, Novi, Michigan, May 3rd, 2012.
- Reducing CAUTI: How to Approach it and Pitfalls to Avoid. Presented at the Illinois Mid-collaborative Meeting, Naperville, Illinois, April 19th, 2012.
- Appropriate Indications for Urinary Catheter Placement in the Emergency Department. Presented for Michigan Health and Hospital Association webinar, April 17th, 2012.
- Reducing the Risk of the Urinary Catheter: Focus on Appropriate Use. Grand rounds presented at Central DuPage Hospital, Winfield, Illinois, March 6th, 2012.
- Appropriate Urinary Catheter Placement in the Emergency Department. Presented for Michigan Health and Hospital Association webinar, March 13th, 2012.
- Appropriate Urinary Catheter Placement in the Emergency Department. Presented for Michigan Health and Hospital Association webinar, February 21st, 2012.

- Physician engagement to reduce catheter associated urinary tract infections. Webinar for On the CUSP: Stop CAUTI, Cohort 2 Missouri coaching call, February 7th, 2012.

Local:

- Infection Prevention and Occupational Exposure To Pathogens. Presented at St John Hospital and Medical Center, September 19th, 2012.
- Infection Prevention and Occupational Exposure To Pathogens. Presented at St John Hospital and Medical Center, Detroit, Michigan, August 20th, 2012.
- Resident Physicians and Patient Safety. Presented at St John Hospital and Medical Center, Detroit, Michigan, August 17th, 2012.
- Our values in action: healing without harm. St John Hospital and Medical Center, June 26th, 2012.
- Preventing Catheter Associated Urinary Tract Infection. Grand rounds presented at Crittenton Hospital, Rochester Hills, Michigan, March 16th, 2012.
- Cestodes. Presented at St John Hospital and Medical Center, Detroit, Michigan, February 22th, 2012.

**2011:**

National/ Regional:

- Building a Team and a Process to Reduce CAUTI Risk. Webinar for On the CUSP: Stop CAUTI, Cohort 3 On-boarding Call #1. November 30th, 2011.
- Preventing catheter associated urinary tract infection: what you need to know. Presented at the Cohort 3 kickoff learning session #1, Detroit, Michigan, November 14th, 2011.
- Preventing catheter associated urinary tract infections. Presented at the Florida Hospital Association meeting. Orlando, Florida, August 19th, 2011.
- Preventing catheter associated urinary tract infections. Presented at the Georgia Hospital Association meeting. Atlanta, Georgia, August 5th, 2011.
- Preventing catheter associated urinary tract infections. Presented at the North Dakota Hospital Association meeting. Bismarck, North Dakota, July 18th, 2011.
- Preventing catheter associated urinary tract infections. Webinar Presented for the Wisconsin Hospital Association meeting. May 25th, 2011.
- Preventing catheter associated urinary tract infections. Presented at the Hawaii Hospital Association meeting. Honolulu, Hawaii, May 18th, 2011.
- MHA keystone webinar: CAUTI Catheter Care and Removal Intervention, April 14th, 2011.
- Webinar Stop CAUTI project: CUSP/CAUTI Content Call #3 - Care and Removal Intervention, April 5th, 2011.
- Preventing catheter-associated urinary tract infections. St Vincent Hospital, Birmingham, Alabama. January 25th, 2011.
- Reducing unnecessary urinary catheter utilization: how to implement the program. Presented at the Texas Hospital Association meeting. Austin, Texas, January 18th, 2011.

**2010 and prior (selected):**

National/ Regional:

- Webinar Stop CAUTI project: CUSP/CAUTI Content Call #3 - Care and Removal Intervention, December 1, 2010.
- Preventing Catheter Related Urinary Tract Infections. Delnor Community Hospital, Geneva, Illinois, November 10th, 2010.
- MHA Keystone HAI Collaborative: CA-UTI Prevention Plan. The Michigan State Medical Society Annual Scientific Meeting. Troy, Michigan, October 20th, 2010.
- Preventing Catheter Related Urinary Tract Infections. Medicine Grand Rounds, St John Hospital and Medical Center, October 19th, 2010.
- Guidelines for the Treatment of Upper Respiratory Tract Infections. The Michigan State Medical Society Annual Scientific Meeting. Troy, Michigan, October 23rd, 2009.
- CDC grant supported webcast, sponsored by Michigan Antibiotic Resistance Reduction Coalition and Wayne State University School of Medicine: Management of Upper Respiratory Tract Infections, a 3 hour CME-accredited educational program designed to promote appropriate management of upper respiratory infections. Live webcast on October 6th, and archived online for one year until October 5, 2010. I presented the lecture on "Guidelines for the Treatment of Upper Respiratory Infections".
- What Principles are you Practicing? The Fall 2009 Michigan Society for Infection Prevention and Control program. Lansing, Michigan, October 15th, 2009.
- Reducing the Risk of catheter Associated Urinary Tract Infection: Focus on Appropriate Utilization. Munson Medical Center, Traverse City, Michigan, September 25th, 2009.
- Reducing unnecessary Urinary Catheter Utilization: the Impact of nurse Led Rounds. Michigan Hospital Association Webinar, September 10th, 2009.
- Bacterial Endocarditis Prophylaxis. Update in Infectious Diseases 2009. St John Hospital and Medical Center, March 11th, 2009.
- Reducing unnecessary Urinary Catheter Utilization: the Impact of nurse Led Rounds. Workshop (2 sessions, 75 minutes each) presented at the 20th Annual national forum for the Institute for Healthcare Improvement, Nashville, Tennessee, December 10th, 2008.
- Reducing Unnecessary Urinary Catheter Utilization. Institute for Health Metrics Webinar, November 24th, 2008.
- Reducing Urinary Tract Infections in the Hospital Setting: a Focus on Appropriate Urinary Catheter Utilization. APIC Webinar, July 8th, 2008.
- Catheter Associated Urinary Tract Infection: A Rational Approach to Prevention. Medicine Grand Rounds, William Beaumont Hospital, Royal Oak, Michigan, June 4th, 2008.
- Do you know your ABCs: MDROs and ESBLs. Presented at APIC Greater Detroit Spring Conference 2008, Madison Heights, Michigan, May 15th 2008.

- Nurse Driven Approach to Remove Unnecessary Urinary Catheters. Presented as part of the Michigan Hospital Association keystone center for patient safety and quality hospital associated infections collaborative workshop #3, Traverse City, Michigan, January 16th, 2007.
- Multidisciplinary Nurse Driven Approach to Remove Unnecessary Urinary Catheters. Presented to Michigan Health Association. January 15th, 2007.
- Multidisciplinary Nurse Driven Approach to Remove Unnecessary Urinary Catheters. Nosocomial Infection Summit, Ascension health, Austin Texas, February 15th, 2007.
- Adult vaccination update. Presented as part of the St John Hospital and Medical center update in Infectious Diseases, Grosse Pointe War Memorial, Grosse Pointe, MI, December 6th, 2006. 1 CME credit.
- Urinary Tract Infections. Presented as part of the Michigan Hospital Association keystone center for patient safety and quality hospital associated infections collaborative workshop #1, November 2nd, 2006.
- Fever in the Intensive Care Unit. Presented as part of the “Winning Big in Critical Care” nursing conference. Grosse Pointe War Memorial, Grosse Pointe, MI, March 22nd, 2006. 1 CE credit.
- Antimicrobials in the treatment of upper respiratory infections. Guidelines for the Treatment of Upper Respiratory Infections. 139th annual scientific meeting, Michigan State Medical Society Foundation. Speaker, 11/2004.
- Antibiotics in the treatment of upper respiratory infections. Blue Cross Blue Shield of Michigan CME program, Southfield, Michigan, 8/2004.
- Internal Medicine Grand Rounds at St John Hospital and Medical Center: Severe Acute Respiratory Syndrome, 1/2004.
- Annual Obstetrics and Gynecology Seminar, Gynecologic Infections. Speaker, Topic: Syphilis. St John Hospital and Medical Center 9/17/2003.
- Antimicrobials in the treatment of upper respiratory infections. Guidelines for the Treatment of Upper Respiratory Infections. 137th annual scientific meeting, Michigan State Medical Society Foundation. Speaker, 10/2002.
- Antibiotic Resistance: Patient Expectations and Physician Challenges. Sponsored by OHEP center for medical education. Speaker, 3/2002.
- Internal Medicine Grand Rounds at St John Hospital and Medical Center: Guidelines for the Treatment of Upper Respiratory Infections, 1/2002.
- Speaker at Marquette General Hospital, guidelines for the treatment of upper respiratory infections, 10/2001.
- MARR provider education conference on upper respiratory infections: Speaker, 10/2001.